**UPDATES**

**MANUAL UPDATES:** The table below is included to identify any course descriptions that may have changed since the last time you may have looked at the manual.

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## COURSE CODES

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**Medicine-Pediatrics**

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**Neurological Surgery**

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**Radiology & Nuclear Medicine**

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<tr>
<td>MDR 1020</td>
<td>WPB VA Radiology Elective</td>
<td>2</td>
<td>IM, SURG (RMC) or RADIOLOGY I (Miami)</td>
<td>2</td>
<td>WPB VA</td>
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</table>

**Radiation Oncology**

| MDR 915 | Radiation Oncology | 4 | None | 2 | JMH, SCCC |

**RMC**

| MDR 992 | RMC Radiation Oncology Elective | 2/4 | IM, SURG | 2 | RMC |

**Surgery**

<table>
<thead>
<tr>
<th>MDR 917</th>
<th>Burn Unit</th>
<th>B</th>
<th>4</th>
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<tbody>
<tr>
<td>MDR 919</td>
<td>Cardiothoracic Surgery</td>
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<tr>
<td>MDR 920</td>
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<tr>
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<td>MDR 922</td>
<td>General Surgery EIII</td>
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<td>MDR 930</td>
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<td>2/4</td>
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**RMC**

<table>
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<tr>
<th>MDR 941</th>
<th>HCH Cardiothoracic Surgery</th>
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<tr>
<td>MDR 1014</td>
<td>Jupiter Medical Center Cardiothoracic Surgery</td>
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<td>MDR 934</td>
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<td>Generalist Primary Care Clerkship</td>
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<td>MDR 706</td>
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<td>MDR 765</td>
<td>Community and Public Health Practicum</td>
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</table>

** - does not fall into the usual two week block on the calendar (see description)

**TYPE**  **CORE**  **REQ**  **IP-M**
- Core Clerkship
- Required Clerkship
A  Type A "Medical" Sub-internship
B  Type B "Surgical" Sub-internship
IP-M  Inpatient Medicine – fulfills Regional Medical Campus requirement
### Sub-internships in Medicine – Type A

<table>
<thead>
<tr>
<th>MDR</th>
<th>Location</th>
<th>Type</th>
<th>COREs</th>
<th>Hospital(s)</th>
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</thead>
<tbody>
<tr>
<td>MDR 819</td>
<td>Ward Family Medicine</td>
<td>A</td>
<td>4</td>
<td>JMH</td>
</tr>
<tr>
<td>MDR 847</td>
<td>JMH Ward Medicine</td>
<td>A</td>
<td>4</td>
<td>JMH</td>
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<td>MDR 958</td>
<td>UMH Ward Medicine</td>
<td>A</td>
<td>4</td>
<td>UMH</td>
</tr>
<tr>
<td>MDR 961</td>
<td>VAMC Ward Medicine</td>
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<td>VAMC</td>
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<tr>
<td>MDR 857</td>
<td>Maternal Fetal Medicine</td>
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<td>4</td>
<td>JMH</td>
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<tr>
<td>MDR 892</td>
<td>Pediatric Intensive Care</td>
<td>A</td>
<td>4</td>
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<tr>
<td>MDR 897</td>
<td>Ward Pediatrics @ JMH</td>
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<td>4</td>
<td>JMH</td>
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<td>MDR 959</td>
<td>JFK Ward Medicine</td>
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### Sub-Internships in Surgery – Type B

<table>
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<th>COREs</th>
<th>Hospitals</th>
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<td>MDR 852</td>
<td>Neurosurgery</td>
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<td>JMH</td>
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<tr>
<td>MDR 856</td>
<td>Gynecologic Oncology</td>
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<tr>
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<td>UroGynecology Sub-internship</td>
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<tr>
<td>MDR 863</td>
<td>Adult Orthopedic Trauma</td>
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<td>Otolaryngology</td>
<td>B</td>
<td>4</td>
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<td>Burn Unit</td>
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<td>Cardiothoracic Surgery</td>
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<td>JFK Medical Center Surgery Sub-Internship</td>
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11
REQUIREMENTS FOR GRADUATION

GENERAL RULES: A student MUST complete a total of 82 weeks of satisfactory third & fourth year clinical work to fulfill the requirements for graduation (for Miami students it's actually 83 weeks with the inclusion of the Patient Safety Week). These 82 weeks consist of 68 weeks of core and required clerkships (the mix varies by campus) and 14 weeks of electives.

CLINICAL COURSEWORK REQUIREMENTS – MD TRACK – MIAMI CAMPUS:

<table>
<thead>
<tr>
<th>CORE Clerkships (43 weeks)</th>
<th>REQUIRED Clerkships (26 weeks)</th>
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<tbody>
<tr>
<td>Patient Safety Week (1 week)</td>
<td>Anesthesiology (2 weeks)</td>
</tr>
<tr>
<td>Internal Medicine (8 weeks)</td>
<td>Emergency Medicine (4 weeks)</td>
</tr>
<tr>
<td>Surgery (8 weeks)</td>
<td>Geriatrics (4 weeks)</td>
</tr>
<tr>
<td>Generalist Primary Care (4 weeks)</td>
<td>Neurology (4 weeks)</td>
</tr>
<tr>
<td>Family Medicine (4 weeks)</td>
<td>Radiology I (4 weeks)</td>
</tr>
<tr>
<td>Obstetrics &amp; Gynecology (6 weeks)</td>
<td>Subinternship “A” (4 weeks)</td>
</tr>
<tr>
<td>Pediatrics (6 weeks)</td>
<td>Subinternship “B” (4 weeks)</td>
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<tr>
<td>Psychiatry (6 weeks)</td>
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<tr>
<td><strong>Electives (14 weeks)</strong></td>
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</table>

CLINICAL COURSEWORK REQUIREMENTS – MD/MPH TRACK – REGIONAL MEDICAL CAMPUS:

<table>
<thead>
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<th>CORE Clerkships (48 weeks)</th>
<th>REQUIRED Clerkships (20 weeks)</th>
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<tbody>
<tr>
<td>Integrated Internal Medicine (12 weeks)</td>
<td>Advanced Geriatrics (2 weeks)</td>
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<tr>
<td>Includes Radiology (2 weeks)</td>
<td>Community &amp; Publ Hlth Practicum (2 wks)</td>
</tr>
<tr>
<td>Includes Geriatrics / Palliative Med (2 wks)</td>
<td>Emergency Medicine (4 weeks)</td>
</tr>
<tr>
<td>Integrated Surgery (12 weeks)</td>
<td>Neurology (4 weeks)</td>
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<tr>
<td>Includes Radiology (2 weeks)</td>
<td>Public Health Clerkship (4 weeks)</td>
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<tr>
<td>Includes Anesthesiology (2 weeks)</td>
<td>Subinternship (4 weeks)</td>
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<td>Family Medicine (6 weeks)</td>
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<tr>
<td>Obstetrics &amp; Gynecology (6 weeks)</td>
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<tr>
<td>Pediatrics (6 weeks)</td>
<td><strong>Electives (14 weeks)</strong></td>
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<tr>
<td>Psychiatry (6 weeks)</td>
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</table>

Each core and required clerkship must be taken at a University of Miami Miller School of Medicine (UMMSM) teaching facility, with the exception of Emergency Medicine. Please see below regarding the EM waiver.

All students must pass the USMLE Step 1 exam and must complete the required clinical course work before graduation. The USMLE Step 2 CS and CK exams must be taken before graduation, though passing scores are not required. Students must sign up for the two Step 2 exams by January 15th and must have sat for the exams by February 15th of the year of graduation.
SPECIFICS REGARDING SCHEDULING

EMERGENCY MEDICINE WAIVER: Because UMMSM and JMH do not have an accredited Emergency Medicine residency program, students who are committed to applying to Emergency Medicine residency programs may request a waiver of taking our Emergency Medicine Clerkship at JMH. They would instead have to take two externships in Emergency Medicine, in addition to completing the required ACLS training. Further details are included at the end of this Manual.

EXTERNSHIP POLICY / PROCEDURE: A maximum of 12 weeks may be spent in elective time away from UMMSM. Externship time in excess of the allowable 12 weeks will not be counted for credit unless a student obtains prior written approval from the Senior Associate Dean for Undergraduate Medical Education. Externship experiences must be described in the course catalog of the host institution. No externships with physicians in private practice will be approved.

A rapidly increasing number of schools are now using the Visiting Student Application Service (VSAS) to offer and accept applications for externships. The procedure for applying to programs for both, externships at schools who use VSAS and at schools that do not, are posted on the UMMSM medical education website under the section “Important Administrative Documents for Students” – Applying for Externships. Also located there is information on obtaining Immunization records, BLS certification and other required documents needed for your application. You will also find online “Contact Information for Seniors on Externships” form which needs to be filled out and handed in to the Office of Student Affairs prior to your leaving.

All documents must be submitted to the Administrative Assistant for Scheduling at the Office of Student Affairs, RMSB #2011 prior to one’s departure, especially the letter of acceptance. A grading/evaluation form will be sent to the host institution once the Office of Student Affairs receives the acceptance letter. The Administrative Assistant for Scheduling at the Office of Student Affairs must be notified immediately if any changes/cancellations regarding an externship occur. An Externship Placeholder will be placed on the senior schedule, and it will be changed to Externship when it has been officially accepted. Failure to comply with this procedure will result in no credit for the externship.

RESEARCH: UMMSM encourages all medical students to participate in research during their medical education. Students can receive either Research Credits, graduate with Research Distinction or both as a result of their efforts. The Medical Student Research Committee has the responsibility to review and approve a student’s request for Research Credits and Research Distinction. Guidelines for the awarding of Research Credits and Research Distinction are located at the end of this document and are posted on the UMMSM medical education website under the section “Important Administrative Documents for Students”.

Please note: The number of credits awarded by the Medical Student Research Committee may differ from the number requested by the student. Therefore, students are required to schedule electives as a backup, to insure they will have enough credits to graduate on time.

For graduating seniors who are requesting Research Credit and/or Graduation with Research Distinction, the deadline for submitting all the required research documents is February 1 of the year of graduation.
INTERVIEW TIME: Residency Interviews should be scheduled during unscheduled time. If an interview must be scheduled during course time, PRIOR permission from the course coordinator MUST be obtained. Each course description lists whether interview time is allowed and the number of days a student may be absent from the rotation. No student can be absent from a scheduled course without prior approval. If a student does not obtain prior approval for interviews, he/she may receive a failing grade for the course, and a physicianhip incident report will be submitted.

ABSENCES: From the Student Handbook:
Students must request excused absences from required curricular activities and examinations from the Office of Student Affairs and course coordinators. Such requests must be submitted by official e-mail to both the Associate/Assistant Dean for Student Affairs (Miami) or the Assistant Regional Dean for Student Affairs (RMC) and the appropriate course coordinator. Requests should be made well in advance of the scheduled activity (preferably before the start of the course). Final approval will be conveyed to the student via e-mail by the Office of Student Affairs.

UNSCHEDULED TIME: Unscheduled time should be planned carefully. Unscheduled time should be used to prepare for and take the USMLE Step 2 CS and CK and to participate in residency interviews. Students may also use unscheduled time for vacation and not-for-credit educational activities.

MINIMUM NUMBER OF STUDENTS: Please be aware that a few required courses and electives have a MINIMUM number of students required. If the minimum number of students is not met, the course may be cancelled. Please keep this in mind, especially if you decide to schedule a required course late in your senior year.

CHANGE OF SCHEDULES:
Rotations may be changed prior to the “add/drop” deadline two weeks prior to the start of the rotation. JMH and VAMC Medicine Sub-I’s are the only exceptions for which no changes are allowed after May 15. Any requested changes must be submitted in writing on an Add/Drop Form and given to the Administrative Assistant for Scheduling in the Office of Student Affairs, RMSB #2011. Changes in core clerkships must be authorized by the Assistant Dean for Clinical Curriculum. Certain Departments require prior approval of the coordinator even if prior to the two week deadline. Refer to the Course Descriptions for which Departments require this. Students will no longer be allowed to add or drop a rotation within 2 weeks of the start of the rotation. No rotation may be dropped once it has begun without the expressed permission by the Office of Student Affairs. One must always have scheduled all credits required for graduation. If a rotation is dropped, an equivalent number of credits must be simultaneously added. Drops will not occur without concomitant additions. The deadline for all senior schedule changes is January 24 of the year of graduation.

CONTACTING THE COURSE COORDINATOR: Students should contact the course coordinator for every elective two weeks prior to starting the elective. This is to make sure they are aware that you will be coming, something particularly important for those electives that have very few students signing up during the year. This will also allow them to let you know of any requirements you may need to complete prior to starting, such as credentialing at the hospital, access to the EMR, or required readings.
WAIVER GUIDELINES: Requirements as listed in this Elective Manual must be adhered to fully. Any deviation from this policy must be approved through the Office of Student Affairs. Any student wishing a waiver of the above stated guidelines must present his/her request in writing to the Office of Student Affairs for action prior to making any changes in schedule.
SCHEDULING AND CAREER PLANNING

The clinical years at the University of Miami Miller School of Medicine (UMMSM) will present you with opportunities to accomplish many important personal goals. The ability to tailor a portion of your schedule will allow you to become well-rounded, to explore individual interests in more depth, and to identify areas that you wish to strengthen in anticipation of moving forward to your graduate training. During this time, you will gain a greater sense of responsibility for your education.

Although there is a good degree of flexibility in choosing your schedules, certain requirements exist in order to assure a fundamental and appropriately broad experience in clinical medicine for each student. The philosophy of the school is that a well-balanced and wide-ranging experience will provide the basic building blocks for future self-learning and scholarly pursuit in any specialty.

When choosing electives, externships, or research, you should seek advice from faculty members knowledgeable in the field in which you intend to concentrate. The advising deans and members of the Office of Professional Development and Career Guidance can assist you in identifying faculty and community mentors who can assist you in achieving your professional career goals.

OFFICE OF PROFESSIONAL DEVELOPMENT AND CAREER GUIDANCE

Hilit F. Mechaber, MD, FACP
Director
305-243-7978
RMSB #2155
hmechabe@med.miami.edu

Joyce Biederman, M.S.
Assistant Director
305-243-7485
RMSB #2155
Jbiederman@miami.edu
ACADEMIC CALENDAR
2015-2016

Mon. June 22, 2015………………………………… Orientation and Registration
Tue. June 23, 2015………………………………… Senior Electives begin
Wed. November 25 @ 5 p.m. – Sun. Nov 29, 2015…… Thanksgiving
Mon. January 4, 2016………………………………… Clinical Rotations Resume
Wed. February 24, 2016 (tentative)....................... Rank Order List Input Deadline
Fri, March 18, 2016 (tentative)............................ MATCH DAY
Mon. May 2 thru Fri. May 6, 2016....................... Senior Week
Sat, May 7, 2016............................................ Miller School of Medicine Commencement Ceremony

No Guaranteed Holidays – Please check with your clerkship Director/Coordinator
### Senior Block Schedule 2015-2016

<table>
<thead>
<tr>
<th>Block #</th>
<th>DATES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OSCE</strong></td>
<td>June 6 – June 7</td>
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<tr>
<td>00</td>
<td>June 08 – June 21</td>
</tr>
<tr>
<td>1A</td>
<td>June 22 – July 5</td>
</tr>
<tr>
<td>1B</td>
<td>July 6 – July 19</td>
</tr>
<tr>
<td>2A</td>
<td>July 20 – August 2</td>
</tr>
<tr>
<td>2B</td>
<td>August 3 – August 16</td>
</tr>
<tr>
<td>3A</td>
<td>August 17 – August 30</td>
</tr>
<tr>
<td>3B</td>
<td>August 31 – September 13</td>
</tr>
<tr>
<td>4A</td>
<td>September 14 – September 27</td>
</tr>
<tr>
<td>4B</td>
<td>September 28 – October 11</td>
</tr>
<tr>
<td>5A</td>
<td>October 12 – October 25</td>
</tr>
<tr>
<td>5B</td>
<td>October 26 – November 8</td>
</tr>
<tr>
<td>6A</td>
<td>November 9 – November 22</td>
</tr>
<tr>
<td>*6B</td>
<td>November 23 – December 6</td>
</tr>
<tr>
<td>7A</td>
<td>December 7 – December 18</td>
</tr>
<tr>
<td><strong>WINTER BREAK</strong></td>
<td><strong>December 19, 2015- January 3, 2016</strong></td>
</tr>
<tr>
<td>7B</td>
<td>January 4 – January 17</td>
</tr>
<tr>
<td>8A</td>
<td>January 18 – January 31</td>
</tr>
<tr>
<td>8B</td>
<td>February 1 – February 14</td>
</tr>
<tr>
<td>9A</td>
<td>February 15 – February 28</td>
</tr>
<tr>
<td>9B</td>
<td>February 29 – March 13</td>
</tr>
<tr>
<td>10A</td>
<td>March 14 – March 27</td>
</tr>
<tr>
<td>10B</td>
<td>March 28 – April 10</td>
</tr>
<tr>
<td>11A</td>
<td>April 11 – April 24</td>
</tr>
<tr>
<td>11B</td>
<td>April 25 – May 8</td>
</tr>
<tr>
<td><strong>Graduation</strong></td>
<td><strong>May 7, 2016 (tentative)</strong></td>
</tr>
<tr>
<td>12A</td>
<td>May 9 – May 22</td>
</tr>
<tr>
<td>12B</td>
<td>May 23 – June 5</td>
</tr>
</tbody>
</table>

*Thanksgiving Holiday – November 26 thru November 29*
ANESTHESIOLOGY

NOTE: ANY schedule changes involving ALL Anesthesiology rotations, must be authorized by Yokasta Cruz before your schedule can be officially changed.
ANESTHESIOLOGY CLERKSHIP (Required)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 712</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christian Diez, M.D. MBA</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1191</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:CDiez@med.miami.edu">CDiez@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Yokasta Cruz (<a href="mailto:ycruz@med.miami.edu">ycruz@med.miami.edu</a>); 305-585-1191</td>
</tr>
<tr>
<td>Ryder Trauma Center Room T-215</td>
<td></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>8 students Block 3A-4B; 10 students starting Block 5A</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year (EXCEPT Blocks 1AB and 2AB)</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>None</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days with MANDATORY PRIOR approval</td>
</tr>
<tr>
<td>None allowed during Block 6B (Thanksgiving)</td>
<td></td>
</tr>
<tr>
<td>TYPE:</td>
<td>Required Clinical</td>
</tr>
</tbody>
</table>

**NOTE:** ANY schedule changes involving ALL Anesthesiology rotations, must be authorized by Yokasta Cruz (see above for contact information) before your schedule can be officially changed.

**Overview / Goals:**
During your two-week rotation in Anesthesia you experience either:

1) **Anesthesia as a Career**
   This will be useful for students contemplating anesthesia as a career.

2) **The Interaction of Anesthesia with other Medical Specialties**
   This will be essential for students planning to follow other medical careers; however, will be interacting with the specialty from the vantage point of their chosen specialty.

No matter what the career choice of the student we aim to give them the same core didactic teaching and teach them some basic clinical skills.

**Course Design / Objectives:**

**Clinical Skills**
All students on completing their two-week rotation will be able to demonstrate competency in:

A) Insertion of an intravenous line.
B) Basic airway management.
   1) Mask ventilate the patient.
   2) On at least two occasions, perform straight forward laryngoscopy and intubation.

Students will be assessed for each of these skills, and this will form part of the final evaluation.

These clinical skills will be taught in the operating room on a one-to-one basis. Therefore, it is essential that the student attend operating room sessions. Each student will be assigned to a resident at the beginning of his or her rotation, and they will be expected to shadow the resident during this period. When the resident is on call, the student will be expected to stay with them at least until 8:00pm. The next day, the student will be assigned another resident for the post call day. Each student will be given an attendance sheet that will be signed off by the resident responsible for the student. In addition, the resident will be responsible for evaluating the participation of the student in the operating room portion of this rotation.

**Didactic Teaching**
During the two-week clerkship, students will receive didactic teaching covering the following areas:

A) Basic pharmacology of the anesthetic agents
B) Anatomy of the airway, basic skills used to maintain ventilation, and an outline of intubation techniques
C) The role of the anesthesiologist as a perioperative physician, and the interaction of anesthesiology with other medical specialties

In addition, students will be expected to attend the conference at the anesthetizing location that they are assigned to. They will have to get the lecturer to sign their attendance sheet, in order to obtain credit. Attendance will be taken at each conference. There will be a multiple-choice test at the end of the clerkship to test the individual’s basic grasp of these concepts.

**Prerequisite:**
None

<table>
<thead>
<tr>
<th>Location</th>
<th>Percentage of Student Time Spent at each setting:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryder Trauma Center OR’s</td>
<td>20%</td>
</tr>
<tr>
<td>Jackson Memorial Hospital (JMH)</td>
<td>20%</td>
</tr>
<tr>
<td>OR’s</td>
<td></td>
</tr>
<tr>
<td>UMH (Univ. of Miami Hospital)</td>
<td>20%</td>
</tr>
<tr>
<td>Ryder Trauma Center T-121 (Lectures)</td>
<td>20%</td>
</tr>
<tr>
<td>VA (Veteran Affairs Healthcare System)</td>
<td>20%</td>
</tr>
</tbody>
</table>

**Student Evaluation and Grading:**
This will have **three** components:

I) Attendance (2 components: Lecture & Clinical) – **25% of final grade**.

II) Evaluation from faculty and residents with whom the student has worked – **25% of final grade**.

III) The final exam – **50% of final grade**.

Students are expected to master Basic Airway Management and IV insertion. The students are evaluated / judged on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds, and/or presentations.

**Each component carries equal weight.**
Failure to obtain an overall satisfactory will result in a failing grade being assigned to the student. Since this is a mandatory rotation, failure will result in the student having to take the rotation again, and the inability to graduate from medical school.

Deadline for adding and/or dropping this course is **2 weeks** prior to its start.

**Interview Time:**
Only two days will be allowed for interviews. No additional time will be granted for any other request. The interviews must be approved two weeks before the start of the rotation with a copy of the invitation sent via email to ycruz@med.miami.edu.

**Orientation and Exam dates that are in each rotation are mandatory with no exception.**

Reviewed January 2015
**ANESTHESIOLOGY SENIOR ELECTIVE**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 809</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christian Diez, MD, MBA</td>
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<td>Yokasta Cruz (<a href="mailto:ycruz@med.miami.edu">ycruz@med.miami.edu</a>); 305-585-1191</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Anesthesiology Clerkship, Surgery &amp; Internal Medicine</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
</tbody>
</table>
| INTERVIEWING TIME: | Yes – 2 days with MANDTORY PRIOR approval  
                      | None allowed during Block 6B (Thanksgiving) |
| TYPE:              | Clinical         |

**NOTE:** ANY schedule changes involving ALL Anesthesiology rotations, must be authorized by Yokasta Cruz (see above for contact information) before your schedule can be officially changed.

**Overview / Goals:**
The Senior Elective rotation program is consistent with the guidelines of the American Society of Anesthesiology. However, few additions and modifications are included in order to make this rotation a more meaningful one for a student who has been exposed to anesthesiology during his junior year. By the end of the rotation, the student is expected to be proficient in airway management, pharmacology of general and local anesthetics, drug interactions, and the medical evaluation of surgical patients as it pertains to anesthesia.

**Course Design:**
The student will meet with the course coordinator prior to beginning the rotation. Together they will decide upon a 4 week rotation that may involve the operating room, the ICU, regional anesthesia, and the obstetric suite. The time schedule is from 7:00 a.m. to 4:00 p.m. One night or weekend call is required; however, students may take more.

Students are encouraged to attend the residents lecture series and departmental conferences.

Each student will be required to write a four page essay typed in a 12-point font on an anesthesia topic of choice and must be completed at the end of the rotation.

**Objectives:**
The following objectives should be met by the student:

1. Develop the ability and the skill to elicit important information from both the patient and physician that may prove essential for the safe administration of an anesthetic. The student will perform preoperative evaluation rounds with a senior resident and plan preoperative preparation and anesthetic agents to be used in the operating room for surgery.
2. Understand the pharmacology, advantages, and disadvantages of the commonly employed anesthetic agents as they apply to a particular patient, and the ability to properly monitor patients and their side effects in the operating room.

3. Learn, and perhaps practice, the essentials of regional anesthesia techniques, such as spinal or epidural anesthesia. Nerve blocks for diagnostic, therapeutic or surgical procedures will be demonstrated both in the Pain clinic and in the operating room.

4. Recognize, and appropriately manage a failing circulation via proper monitoring, various catheterization techniques, and the sound administration of necessary vasopressors or other pharmacological agents needed to support an inadequately functioning cardiovascular system.

5. Develop the necessary knowledge and skill to manage an obstructed airway via positioning of the head, use of face mask ventilation with or without the utilization of oral or nasal airways, or via endotracheal intubation, and proper use of mechanical ventilators.

6. Obtain experience in the management of post-anesthetic problems in the recovery room and/or Intensive Care Unit.

**Participating Faculty:**
The student will work under the supervision of a resident, serving as tutor, and attendings that will instruct and share in the teaching. The course coordinator will be responsible for supervising and follow-up of the student’s performance. Frequent contact will be of vital importance to both the supervisor and the student if a rewarding experience is desired.

**Location:**

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<tr>
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<tr>
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<td>25%</td>
</tr>
<tr>
<td>Ryder Trauma Center TICU</td>
<td>25%</td>
</tr>
<tr>
<td>Jackson Memorial Hospital (JMH) OR’s</td>
<td>25%</td>
</tr>
<tr>
<td>OB Holtz Children Center 4th Floor</td>
<td>25%</td>
</tr>
</tbody>
</table>

**Interview Time:**
Only two days will be allow for interviews no additional time will be granted for any other request. **None allowed during block 6B (Thanksgiving).** The interviews must be approved two weeks before the start of the rotation with a copy of the invitation sent via email to ycruz@med.miami.edu

**Prerequisite:**
Anesthesiology Clerkship (Required), Surgery, Internal Medicine

Reviewed January 2015
CARDIAC ANESTHESIOLOGY/CARDIOVASCULAR & THORACIC ICU

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 953</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td></td>
<td>Ryder Trauma Center Room T-215</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Anesthesiology, Surgery and Internal Medicine</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year (except Blocks 1AB, 2AB)</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>None</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes – 2 days with MANDATORY PRIOR approval None allowed during Block 6B (Thanksgiving)</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</table>

**NOTE:** ANY schedule changes involving ALL Anesthesiology rotations, must be authorized by Yokasta Cruz (see above for contact information) before your schedule can be officially changed.

**Overview:**
- During this rotation, the student will be exposed to the principles and the practice of cardiothoracic anesthesia, applied cardiovascular physiology and pharmacology, and the management of the cardiothoracic surgical patient in the post-surgical ICU setting.

- The course will provide the student exposure to and experience performing the preoperative assessment, intraoperative management, and postoperative intensive care management of cardiothoracic surgical patients from the perspective of the cardiac anesthesiologist and critical care specialist. The student will work with faculty, fellows, and residents delivering anesthetic care to adult patients undergoing cardiothoracic and vascular procedures and under the supervision of the ICU attendings and fellows, and share in the responsibility for direct day-to-day ICU patient care.

**Course Design:**
- The student will initially spend 2 weeks in the OR participating in the preoperative and intraoperative care of at least one CT surgery patient per day and the following 2 weeks in the Cardiac-Surgery-ICU assisting in the postoperative management of CT surgery patients.

- **Didactics:**
  - Several Core Topics (listed below) will be covered during this rotation. These topics will be discussed during the existing departmental lecture series, journal club sessions, departmental Grand Rounds and M&M conferences, all of which the student will be required to attend. Core Topics not covered within these sessions will be discussed with the students in small group settings by either the cardiac anesthesia fellows or attendings.
  - Core Topics/Learning Seminars:
    1. Pre-Op Evaluation of CT patient
    2. General Cardio-pulmonary Physiology
    3. Hemodynamics
    4. Cardio-pulmonary Bypass
5. Invasive Monitoring/TEE
6. Ventilation
7. General Support of patient in the ICU (Fluids/Hemodynamics/Electrolytes/Nutrition/etc.)
   o Pharmacology (w/ focus on intra-op cardiac pharmacology)
   o Weekly presentations given by the students will cover the basics of Cardiovascular Anesthesiology including devices used in the perioperative setting (i.e. IABP, ECMO, VAD's).
   o Weekly hands-on Anesthesiology sessions in the Simulation Lab.

**Goals/Objectives:**
- The goal of this course is to educate students on the anesthetic considerations related to cardiothoracic surgery and familiarize the students to the management of cardiothoracic surgical patients in the post-surgical ICU setting.

- The student will participate in preoperative evaluations and be involved with the intra-operative management of the patient. It will also be important for the student to follow the post-operative course of the patients.

**Location:**
- The rotation will take place in several venues including, but not limited to the JMH Operating Rooms designated for CT surgery, the pre-op holding area, the Simulation lab in the JMH Rehabilitation Center.

**Participating faculty:**
This course will be taught by a multidisciplinary team of faculty from the Dept. of Anesthesiology consisting of intensivists, fellowship trained cardiac anesthesiologists, experts in medical simulation training.

- There will be two Cardiac Anesthesiology Fellows who will mentor one medical student during the OR portion of the course and will also be responsible for covering core lecture topics not otherwise covered in the exiting departmental lecture series.

**Prerequisites:**
Anesthesiology Clerkship (Required), Internal Medicine, and Surgery

**Expectations:**
- Upon completion of this elective the student will be expected to:
  - Perform pre-operative assessment of a CT surgery patient in preparation for anesthesia.
    - Predict perioperative risk based on pre-existing disease and the surgical procedure proposed for CT surgery patients (i.e. coronary artery disease, congestive heart failure, valvular heart disease, arrhythmias).
  - List the sequence of events performed in the perioperative course.
    - Describe the components of anesthesia: amnesia, analgesia, muscle relaxation, control of ANS, sedation, etc.
    - Assess emergence from anesthesia - Assess criteria for tracheal extubation.
    - Understand common problems in the ICU in the immediate post-operative setting
    - Learn about oxygen therapy and the equipment used to deliver it.
  - Discuss and outline the basic management of a CT surgery patient in the OR and post-op ICU settings.
    - Appropriately follow and present an ICU patient to the attending/fellow.
    - Special monitoring/technical procedures (i.e. Starting iv's, measuring bp, a-line, capnography, oximetry).
    - Blood therapy and maintaining appropriate fluid balance. - Understand the difference between different types of iv solutions and the indications for each. - During blood loss,
appreciate the difference between anemia and hypovolemia and the associated pathophysiology that results.

- CPR/ACLS: to review the principles behind basic and advanced cardiopulmonary life support with regard to: - Time of institution, organization, airway management, hemodynamic support and arrhythmia management in the Operating room and ICU.

**Student evaluations and grading:**
- Students will be subjectively evaluated by the course coordinator and assisting faculty and fellows.
- Grading will be Pass/Fail and based on:
  - Attendance to all scheduled sessions
  - Motivation and involvement with patient management
  - Patient evaluation and presentation skills
  - Evaluations by Faculty and Fellows.

**Interview Time:**
Only two days will be allow for interviews no additional time will be granted for any other request. **During Block 6B (Thanksgiving) no interview time will be allowed.** The interviews must be approved two weeks before the start of the rotation with a copy of the invitation sent via email to ycruz@med.miami.edu.
PEDIATRIC ANESTHESIOLOGY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 954</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Jacqueline Tutiven, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-326-6543 Pgr: 305-750-5275</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:JTutiven@med.miami.edu">JTutiven@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Yokasta Cruz (<a href="mailto:ycruz@med.miami.edu">ycruz@med.miami.edu</a>); 305-585-1191</td>
</tr>
<tr>
<td></td>
<td>Ryder Trauma Center Room T-215</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Anesthesiology, Surgery, Pediatrics, &amp; Internal Medicine</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year (except Blocks 1AB &amp; 2AB)</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>None</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day with MANDATORY PRIOR approval</td>
</tr>
<tr>
<td></td>
<td>None allowed during Block 6B (Thanksgiving)</td>
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<tr>
<td>TYPE:</td>
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</tr>
</tbody>
</table>

NOTE: ANY schedule changes involving ALL Anesthesiology rotations, must be authorized by Yokasta Cruz (see above for contact information) before your schedule can be officially changed.

1. Overview:

- This elective will introduce the subspecialty of Pediatric Anesthesiology to medical students interested in careers in Anesthesiology, Pediatrics and related specialties. The rotation will consist of a 2-week consecutive period that will expose the medical student to the basic knowledge and skills inherent to the practice of pediatric anesthesia. Techniques of basic procedural skills will be reviewed along with discussions on topics integral to pediatric peri-operative care.

- The course will provide the student exposure to and experience performing the preoperative assessment, intra- and post-operative management of pediatric surgical patients from the perspective of the pediatric anesthesiologist.

2. Course Design:

- The student will be exposed to the practice of Anesthesiology and perioperative medicine in the environment of a variety of pediatric surgical cases, including but not limited to: ENT, Ophthalmology, Cardiothoracic, Orthopedic, Trauma, and General Surgery.

- Tentative layout for the ten-day course: (subject to change based on Attending and Operative Schedules)
  - Day #1: Introduction in JMH or BPEI with an on site review of pediatric airway anatomy, intubation technique, and anesthesia machines and equipment used in the OR (Dr. Tutiven / Dr. Jorge)
  - 2 days at BPEI with Dr. Tutiven in ENT cases
  - 2 days at JMH with Dr. L. Jorge in inpatient pediatric surgeries
  - 2 days at BPEI with Dr. Tutiven in Ophthalmology procedures
  - 2 days at JMH with Dr. Saab in pediatric Cardiovascular/Thoracic surgery
  - 2 days at JMH with Dr. Varga in pediatric Cardiovascular/Thoracic surgery
• 2 days at JMH with Dr. Halliday/Dr. Klumpp/Dr. Del Rio and Dr. Luis Rodriguez for JMH pediatric cases

• Each Wednesday at 7 am, there will be a 45-minute lecture by an Attending/Fellow/Resident on a core topic in Pediatric Anesthesiology. This takes place at JMH central 303.
  o On the second Wednesday of each rotation, students may present a short discussion based on a patient of interest they encountered during the first week of their rotation. The Fellow and the student will decide on the topic to be presented.

• At a minimum, the following topics will be discussed and reviewed with the students during the rotation. Students will be provided case-study worksheets where they will need to determine the proper fluid management, medication dosing, ABG interpretation and corrective management, etc. These worksheets will be used to stimulate discussion and reinforcement of the core learning objectives:
  o Pediatric fluid management and acid/base balance
  o Anesthetic agents and medications used on pediatric patients under anesthesia
  o Developmental stages: normal vs. abnormal and their anesthetic implications
  o Common co-morbidities and their anesthetic implications: chronic URI, OSA and obesity, asthma
  o The pediatric pre-operative assessment and care
  o PALS

• The student will be exposed to the intensive care management of pediatric surgical patients by following the post-operative course of at least one patient admitted to the PICU after a surgery that the student observed.

3. Goals/Objectives:

• The goal of this course is to educate students on the anesthetic considerations related to pediatric surgery and familiarize the students to the management of pediatric surgical patients in the pre-, intra- and post-operative settings.

• The student will participate in preoperative evaluations and be involved with the intra-operative management of the patient. It will also be important for the student to follow the post-operative course of the patients.

• After this clerkship, the student should be able to:
  • Knowledge/Cognitive goals:
    • List the sequence of events performed in the perioperative course.
      o Describe the components of anesthesia: amnesia, analgesia, muscle relaxation, control of ANS, sedation, etc.
      o Assess emergence from anesthesia /Assess criteria for tracheal extubation.
      o Understand common problems in the ICU in the immediate post-operative setting
      o Learn about oxygen therapy and the equipment used to deliver it.
    • Understand the difference between pediatric and adult airway anatomy and its implication for airway management and intubation
    • Calculate pediatric fluid requirements and estimated blood loss for uncomplicated pediatric surgical cases
    • List the normal vital sign ranges for infants and children
• Discuss the physiologic differences between pediatric and adult patients and understand how these differences are applied to the pre-operative evaluation, peri-operative management, and post-operative care of the pediatric patient
• Appreciate the wide range of surgically-correctable congenital anomalies and their specific pathophysiologic considerations
• List NPO times and nutritional requirements for pediatric surgical patients
• Recognize and interpret abnormal laboratory values in the pediatric population
• Recognize and treat respiratory compromise in the pediatric patient

- **Clinical skills/procedure goals:**
  • Perform a complete pre-operative history and physical on a pediatric surgical patient in preparation for anesthesia and be able to predict perioperative risk based on pre-existing disease and the planned surgical procedure.
  • Formulate anesthetic plan for pediatric patients undergoing uncomplicated surgery
  • Develop competence in placing monitoring and IV lines on pediatric patients
  • Observe placement of invasive monitoring techniques
  • Develop proficiency in pediatric airway management, including:
    - Mask ventilation
    - LMA placement
    - Endotracheal intubation
  • Assess post-op pain and assist in management of pain in a post-op pediatric patient.

4. **Location:**

• The rotation will take place in several venues including, but not limited to:
  - JMH Operating Rooms designated for pediatric general surgery (OR 1-4) and pediatric cardiothoracic surgery (OR 72) (40%)
  - Pre-operative holding area (PACU) (5%)
  - Bascom Palmer Eye Institute Operating Rooms 6th floor (50%).
  - Students may also spend time in the radiology and radiation oncology wings if anesthetic care is required in those settings (2.5%)
  - Pediatric Intensive Care Unit (2.5%)

5. **Participating faculty:**

• This course will be taught by a multidisciplinary team of faculty from the Department of Anesthesiology consisting of fellowship trained Pediatric Anesthesiologists, in addition to several additional members of the UM Department of Anesthesiology faculty including but not limited to:
  - Jacqueline Tutiven, M.D., Assistant Professor of Clinical Anesthesiology; Director Pediatric Anesthesia Fellowship; course director.
  - Luis Rodriguez, M.D., Fellowship-trained Pediatric Anesthesiologist, Assistant Professor of Clinical Anesthesiology.
  - Norman J. Halliday, M.D., Fellowship-trained Anesthesiologist, Professor of Clinical Anesthesiology and Chief of Pediatric Anesthesiology division.
  - Amanda Saab, M.D Fellowship-trained, Assistant Professor for Pediatric Cardiac Anesthesiology.
  - Eliane Varga, M.D. Fellowship-trained, Assistant Professor for Pediatric Cardiac Anesthesiology
  - Lydia Jorge, M.D., Assistant Professor of Clinical Anesthesiology, Pediatric Anesthesiology.
  - Stephan Klumpp, M.D Assistant Professor of Clinical Anesthesia, Pediatric Anesthesiology.
  - Isis Del Rio, M.D. Fellowship trained Assistant professor for Pediatric Anesthesia
6. Prerequisites:
   - Anesthesiology Clerkship (Required), Internal Medicine, Pediatrics, and Surgery

7. Student evaluations and grading:
   - The course coordinator and assisting faculty and fellows will subjectively evaluate the students.
   - Grading will be Pass/Fail and based on:
     - Attendance to all scheduled sessions
     - Written Evaluations from the Attendings
     - Motivation and involvement with patient management
     - Patient evaluation and presentation skills
     - Completion and discussion of case-study worksheets on Fluid management, principles of pharmacokinetics in the pediatric patient, anesthesia and the cardio respiratory system and the anesthesia machine. This is mandatory on the last day of the rotation.
     - Student presentation during scheduled Pediatric Anesthesiology Lecture on second Wednesday of course

Interview Time:
Only one day will be allowed for interviews. No additional time will be granted for any other request. The interviews must be approved two weeks before the start of the rotation with a copy of the invitation sent via email to ycruz@med.miami.edu.

Orientation is on the first day of each rotation and is mandatory with no exception.

Reviewed January 2015
CELL BIOLOGY AND ANATOMY
GROSS ANATOMY (Senior Elective)

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<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Doug Broadfield, PhD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6942</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:DBroadfield@med.miami.edu">DBroadfield@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>RMSB, 4th floor, #4099</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks (4 weeks – with permission of Director)</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>6 per session</td>
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<tr>
<td>AVAILABLE:</td>
<td>August – September (Blocks 2B-4B), April (Blocks 10B, 11A/B)</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes, only one per session if space available</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
<td>Basic / Clinical</td>
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Overview:
Intended primarily for students applying for surgical or orthopedic residency programs, this elective provides the ability to study advanced regional anatomy with opportunities for students to develop teaching and presentation skills.

Course Design / Expectations:
Students will perform dissections or prosected reviews of selected regions of the human body, based on their specific interests. They can review their dissections with the faculty. This provides the self-motivated student the opportunity to review anatomy as well as practice surgical or orthopedic techniques on the cadaver. In addition, students will provide assistance in the human anatomy courses to first year medical students. Students are also required to prepare presentations in PowerPoint format on the clinical relevance of their anatomical area of interest.

Location:
The course takes place in the gross anatomy laboratory, RMSB, 4th floor.

Participating Faculty:
Dr. Doug Broadfield will supervise each student’s performance.

Prerequisite:
None

Student Evaluation and Grading:
Students are evaluated on a pass / fail basis by their participation in the lab (9 sessions per two week period) and their PowerPoint presentation.

Revised January 2015
DERMATOLOGY
DERMATOLOGY

COURSE CODE: MDR 811
CLERKSHIP DIRECTOR: George Elgart
TELEPHONE: 305-689-7067
EMAIL: Ghevia@med.miami.edu
CONTACT: Gabriela Hevia - 305-243-4472
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: Must have completed core clerkships
NUMBER OF STUDENTS: 6
AVAILABLE: All year EXCEPT Blocks 1A/B
U.S. VISITING STUDENTS: XXX
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

Course Design / Location:
The student will attend 7 clinics per week, weekly management conferences and grand rounds, the Miami Dermatology Society meetings (which are held 6 times a year), journal club, and slide conferences. The student will participate in outpatient dermatologic care, under supervision of the Chief Resident and a member of the faculty, at Jackson Memorial Hospital and the Veterans Administration Hospital. Development of history taking, diagnostic skills, and ambulatory management of dermatological diseases will be emphasized in this elective program. Basic diagnostic procedures, including punch and shave biopsies, Tzanck, scabies, and potassium hydroxide preparations will be taught. There will also be opportunities to observe surgical therapy and the Dermatology inpatient service.

Location: JMH (XX%), VAMC (XX%)

Prerequisites:
All the core clerkships

Expectations / Student Evaluation and Grading:
Students are evaluated based on attendance, promptness, professionalism and participation in clinics. They will be expected to have an understanding of dermatology based on the Miami Medical Student Guide for Dermatology, which will be distributed to all rotating students. At the end of the rotation, a short quiz will be administered based on this Guide and selected from the questions at the end of this soft-covered pocket-size book. Students should have mastered the approach to the dermatologic patient, basic dermatology terminology, and the rudiments of punch and shave biopsies.

Reviewed January 2015
# PEDIATRIC DERMATOLOGY
*(Listed under both Dermatology and Pediatrics)*

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Lawrence Schachner, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6735</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ghevia@med.miami.edu">ghevia@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Gabriela Hevia</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2-4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year EXCEPT Block 1A/B</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>XXX</td>
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<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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## Overview/Course Design:
The understanding of mechanisms of pathophysiology and effective therapy in pediatric dermatological diseases is stressed in this elective. The students will participate in management of in-patient and out-patient dermatological and connective tissue problems. Diagnostic techniques by light microscopy and immunologic techniques and standard dermatologic laboratory techniques will be emphasized.

## Goals/Objectives:
The goals of this elective are to introduce the student to clinical and laboratory means of recognition of cutaneous diseases in children and adolescents.

## Location:
JMH (100%)

## Prerequisite:
NONE

## Student evaluations and grading:
Students will be evaluated based on part, or all of the following:
- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills

Reviewed January 2015
WOUND HEALING ELECTIVE
(Listed under both Dermatology and Surgery)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 806</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christopher J. Salgado, MD (Director) <a href="mailto:christophersalgado@med.miami.edu">christophersalgado@med.miami.edu</a> Robert S Kirsner MD, PhD (Co-Director)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB #410Q]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:egotera@med.miami.edu">egotera@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
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<td>PREREQUISITE:</td>
<td>None</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<tr>
<td>TYPE:</td>
<td>Clinical with research opportunity if 4 week rotation</td>
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**NOTE:** ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

**Overview:**
- The student will be exposed to a multitude of difficult-to-heal wounds in the lower extremity (i.e. diabetic foot ulcers, venous ulcers), trunk (pressure sores), upper extremities (traumatic, infected), and head and neck (cancers, etc.)
- Students will interview patients with chronic and acute wounds and identify critical pathways that will lead to the diagnosis, etiology, pathophysiology and treatment of these difficult-to-heal wounds.
- Students will learn to care for these wounds and make clinical interventions and recommendations to their healing.

**Course Design:**
The student will spend four days a week at the University of Miami Wound Healing Center participating in the care of patients with complex wounds. The student will have the opportunity to see a multi-disciplinary approach to complex wound care working with University of Miami Dermatologists, Vascular Surgeons, General Surgeons, Plastic Surgeons, Internists, Hyperbaricists, and Podiatrists (depending on who is staffing the wound care clinic that day). During this time, they will also spend time working with physicians performing hyperbaric medicine. One day a week (Tuesday) will be spent in the operating room dealing with extensive debridement as well as the reconstruction and closure of wounds that were not manageable with local wound care options. Operative cases will be performed either at the University of Miami Hospital or Jackson Memorial Hospital. All students will meet with Dr. Salgado, the course director, weekly on Tuesdays, and they are expected to attend wound care conferences if given and any pertinent plastic surgery wound care related didactic lessons if given that week.

**Goals:**
- Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiology examinations, and cognitive skills as they relate to the diagnosis and treatment of acute and chronic wounds.
Familiarize the medical student with the care of acute and chronic wounds using various methods including:
  - Debridement, both mechanical and enzymatic, to obtain a clean non-infected wound
  - Chronic care, with a multitude of current state of the art wound care therapies using gels, dermal and epidermal substitutes, xenografts, etc.

Familiarize the student with the care of patients with wounds of pressure, arterial, venous, and lymphatic etiologies.
Familiarize the patient with vacuum assisted therapy biology and indications.
Familiarize the patient with hyperbaric oxygen treatment and its current indications.
Reinforce a critical approach to the medical literature.

Objectives:
A. The medical student will be expected to be familiar with the basic evaluation and management of the following disorders by attendance in the wound care clinic:
   - Venous stasis ulcers
   - Diabetic foot ulcers
   - Pressure sores of the sacrum, ischium, greater trochanter, limbs
   - Inflammatory ulcers
   - Acute surgical and post surgical wounds

B. The medical student will be expected to have read and discussed with fellows and/or faculty members the basic aspects of the following clinical evaluations and interventions to wound healing:
   - Basic analysis of a chronic wound including staging and measurement analysis
   - Vascular examination of a limb with Doppler examination, ABIs, PVRs, and transcutaneous oxygen measurement
   - Debridement
   - Basic wound care therapy with enzymatic debriders, vacuum assisted therapy, compression, off loading and gels
   - Application of xenografts, dermal and epidermal skin substitutes.

C. Students will be evaluated on their ability to perform the following competencies:
   - Perform and interpret the findings of a problem-focused history, physical examination with completion of a medical record and a differential diagnosis.
   - Understand the multi-disciplinary approach to the care of a patient with a chronic wound.
   - Demonstrate the ability to perform effective debridement and dressing skills.
   - Perform hand hygiene before and after patient care.
   - Ability to interpret lab studies. (i.e. WBC, H/H, BUN and Cr levels and ability to describe significance).
   - Formulate and implement an appropriate plan of management for consultations and referrals.
   - Ability to make an adequate assessment of a pressure sore according to staging criteria.
   - Ability to adequately assess a chronic wound of the leg, including a vascular exam with Doppler ultrasound, and ABI
   - Ability to interpret special studies (i.e. PVRs, MRI, Bone Scan and CTs)
   - Understand and respect the ethical boundaries and interactions with patients, colleagues and employees.
   - Read, interpret and critically examine present medical and scientific literature.

Location:
University of Miami Hospital Wound Care Center and Operating Room (XX%) and Jackson Memorial Hospital Operating Room (XX%).
**Participating Faculty:**
Faculty and staff from the Department of Wound Care and Hyperbaric Medicine Clinic at the University of Miami Hospital, some of whom who are also faculty in the Departments of Surgery, Dermatology, Physical Medicine/Rehabilitation, and Internal Medicine.

**Prerequisite:**
None

**Expectations:**
The student will be expected to participate in all activities (wound care clinic, procedures in clinic and operating room) and be on time. The course director needs to be informed of all absences. Professionalism as mandated by the Miller School of Medicine is expected.

**Student Evaluation and Grading:**
The medical student will receive a written evaluation at the end of the 2 weeks or month. This will be reviewed with the student by the faculty evaluator.

**REPORT TO:** Email Dr. Salgado prior to start date for location to meet.

Reviewed January 2015
RMC DERMATOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1015</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr. Christopher Spock</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine and Surgery Clerkships</td>
</tr>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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</table>

Overview:
This is a two-week elective intended to expose the senior medical student to a spectrum of experiences in a private practice outpatient dermatology setting. During the two-week rotation, the student will spend time in a private practice dermatology office and will take part in patient visits and observe common outpatient dermatologic procedures including surgical and cosmetic procedures.

Course Design:
The student will spend time at Water’s Edge Dermatology (exact practice locations to be determined based on scheduling and availability). The student will gain exposure to general skin examinations and treatment of common dermatologic issues such as acne, rosacea, seborrheic dermatitis, psoriasis, warts, and skin cancers. The student will also have the opportunity to watch surgical excisions of skin cancers and benign lesions, and subsequent surgical repairs. Depending on scheduling, the student will have exposure to Mohs micrographic surgery and cosmetic procedures such as neurotoxin and filler administration and laser resurfacing.

Goals:
- Review the basics of dermatology and know the management of those most common skin conditions including but not limited to: acne, rosacea, seborrheic dermatitis, atopic dermatitis, psoriasis, warts, nevi, cysts, actinic keratosis, and skin cancers
  - Use an evidence based approach to treat these conditions and gain familiarity with important dermatologic literature as it relates to these conditions
- Gain exposure to cosmetic dermatology including cosmetic consultations, anti-aging skin care regimens and common cosmetic procedures including neurotoxin and filler administration
  - Understand the pathophysiology of aging and the relevant anatomy for cosmetic procedures
- Gain exposure to surgical dermatology including excision and repair of benign and malignant lesions
  - Understand the pathophysiology of benign and malignant skin lesions
  - Use an evidence based approach to the management of skin cancer
  - Understand the relevant anatomy and surgical techniques for the treatment of benign and malignant lesions
- Exposure to the basics of billing and coding in the outpatient setting
- Exposure to the importance of customer service, professionalism, and efficiency in the private practice setting

Objectives:
The medical student will be expected to be familiar with the basic evaluation and management of the following disorders:
  - Acne
  - Rosacea
  - Seborrheic dermatitis
  - Atopic dermatitis/eczema
  - Psoriasis
  - Actinic keratosis/squamous cell carcinoma
  - Basal cell carcinoma
  - Benign nevi
  - Melanoma
  - Warts

**Location:**
- Water’s Edge Dermatology Offices, exact locations to be determined by scheduling availability (potential locations include Delray Beach, Wellington, West Palm Beach, Palm Beach Gardens, Jupiter). Students would be at only one location per day to limit driving.

**Participating Faculty:**
- Christopher Spock MD, FAAD and other faculty at Water’s Edge Dermatology

**Prerequisite:**
- Internal Medicine and Surgery Clerkships

**Expectations:**
- Water’s Edge is a fast-paced private practice setting and students will be expected to demonstrate the highest levels of professionalism and punctuality.
- Students will perform histories and physical exams on patients as well as take part in minor office-based procedures.
- Students are expected to be active learners and have an interest in dermatology
- The rotation coordinator needs to be informed of all absences.
- The student will be asked to complete an evaluation of the rotation as a whole upon completion to allow for continual improvement of the student experience.
- Faculty performance will be evaluated by the medical student (submitted anonymously).

**Student Evaluation and Grading:**
- The medical student will receive a written evaluation at the end of the month.
- Students will be required to complete a short oral presentation 5-10 minutes during the rotation on an agreed upon topic with the supervising faculty member.
- **Pass/Fail** dependent upon attendance, participation, and performance on oral presentation.

Reviewed January 2015
EMERGENCY MEDICINE
EMERGENCY MEDICINE CLERKSHIP (Required)

<table>
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<th>COURSE CODE:</th>
<th>MDR 812</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Larry Zaret, DO / Jennifer Jackson, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>JMH: 305-585-6913</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:lzaret@jhsmiami.org">lzaret@jhsmiami.org</a>; <a href="mailto:larryzt@yahoo.com">larryzt@yahoo.com</a>; <a href="mailto:vedwards@jhsmiami.org">vedwards@jhsmiami.org</a>; <a href="mailto:jJackson@med.miami.edu">jJackson@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Vinessa Edwards (JMH Holtz #1195 ECC Adm. Office)</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>18 all year EXCEPT 16 for Blocks 5AB &amp; 6AB (minimum of 6)</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Scheduling is flexible with at least 2 weeks advanced notice. The following days absolutely cannot be missed or rescheduled: Orientation day, 2 ACLS days, SimLab, last Friday – NBME Emergency Medicine Shelf Exam and the 3rd Friday – Case Presentation</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Required/Clinical</td>
</tr>
</tbody>
</table>

NOTE: Information on the Emergency Medicine Clerkship waiver is available near the end of this document.

Overview:
The Emergency Medicine four-week rotation will provide both classroom teaching, simulation, and hands-on clinical experience in emergency care of patients of all ages with a wide spectrum of illnesses and injuries. Students are expected to evaluate and manage assigned patients under the direct supervision of an EM attending physician. Students will also gain additional experience at physical diagnosis and procedural skills by working with patients being evaluated by other housestaff, as appropriate for teaching. Emphasis is placed upon initial assessment, recognition, prioritization, and stabilization of acute emergency conditions. Procedural skills are an important emphasized component, including wound repair, intravenous techniques, airway management, ACLS care, fracture and soft tissue injury management, incision and drainage procedures, etc. This rotation also includes a variety of generalist skills in handling minor acute conditions that will be encountered frequently in primary care practice. The student will participate in the provision of pre-hospital emergency care with a Fire Rescue EMS crew. The EM rotation will include:

- Day and night shifts in all emergency areas (ER-A, ER-B, ER-C, F, Pediatrics,)
- 1 eight-hour shift with an EMS crew
- ACLS course (2 days) at the Gordon Center for Research in Medical Education
- Required classroom sessions (lectures, skills labs, case conferences)
- Required 2 four-hour simulation lab sessions (the second session is graded)
- NBME Emergency Medicine shelf examination
- Computer Modules: Prehospital Emergency Triage (2 hours); Management of Pediatric Trauma (2 hours)

Scheduling/Attendance:
Specific shifts are assigned, so that usually only one student is working in each treatment area per shift. Scheduling of shifts for the entire rotation is completed one week prior to start date. Therefore, specific requests must be received at least four weeks prior to the start date and we would allow a maximum of six (6) day off requests for the month. We cannot guarantee that all requests will be accommodated.
Assigned shifts will include days, nights, holidays, and/or weekends. Accommodations may be made for no more than 2 interviews. Students must make up any missed shifts either during the rotation or within 4 weeks of its end. Orientation day (which includes 3 skills labs) and 2 ACLS days (usually the first Tuesday and first Friday of each rotation unless otherwise specified), the two Simulation Lab Days per student, and the case presentations (third Friday of the rotation) cannot be missed or rescheduled. **Students are not allowed to swap shifts without prior approval from the Director or Coordinator.** If you will be late for or absent from a shift, you are required to inform the attending physician in the area you are assigned, as well as email or telephone Vinessa Edwards, the Coordinator.

If for any reason, a student misses an ACLS/BLS class as scheduled during their rotation, the student is responsible for scheduling himself/herself for the class which will be held with the next rotation; or pay the cost for another 2-day ACLS class provided by an American Heart Association-approved sponsor, which must include BLS and a written examination; advise the Coordinator of those dates; and turn in the final ACLS grade to the Coordinator together with a copy of the ACLS card, when complete. This class must be completed within six weeks of the start date of their Emergency Medicine rotation. The student also has an option to schedule ACLS prior to his/her rotation. ACLS certification is a UM requirement for graduation.

**Orientation: MANDATORY SESSION.**
At least one month prior to the start of your rotation, the Clerkship Coordinator, Vinessa Edwards, will email information regarding orientation and scheduled activities of the first day. You must report to orientation at 07:00 a.m. Orientation materials, reading lists, and evaluation forms will be provided. EM textbooks are available on loan. Texts, computer access, and reference articles are available while on duty.

**REQUIRED ATTENDANCE:**
- **Classroom:**
  - **ACLS** – Two-day class usually the first Tuesday and Friday of the rotation unless otherwise specified (e.g. If 1st Monday of the rotation is a holiday observed by Jackson Memorial Hospital, ACLS is moved to first Wednesday and 2nd Tuesday).
  - **Simulation Lab** – every Thursday from 1:00 p.m. to 5:00 p.m. unless otherwise specified. Practicum on the 1st and 2nd Thursday; examination on the 3rd and 4th Thursday (each student attends two Simulation Lab sessions – 1st & 3rd Thursdays or 2nd & 4th Thursdays)
  - **Student Case Presentations** to EM Faculty Members – 3rd Friday of the rotation.
  - **Skills Labs** (e.g. wound management, airway skills, central line, ACLS)
  - **Didactic Lectures** every 3rd Wednesday of the month.
  - **Toxicology Journal Club** (video conference) 3rd Tuesday of every month at 2:30 p.m. and **Toxicology Lectures** when scheduled

**Course Completion:**
Students will be required to submit written logs (shift attendance, patient care logs, procedure logs, powerpoint case presentation, and course evaluation forms, and to return the textbooks in order to complete the rotation. Any student encountering difficulty completing the procedure/patient care logs prior to the end of the 3rd week of the rotation, is required to meet with the Dr. Zaret, the Clerkship Director. A final examination (NBME Emergency Medicine shelf examination) will be given on the last Friday of the rotation. **Textbooks must be returned on the day of the final exam. Students who do not return the textbooks will be responsible for the replacement cost.** All other documentation must be turned in within 5 business days after the rotation ends, or your grade will be submitted as an incomplete.

**End of Rotation:** You can be scheduled up to 8 p.m. on the last Sunday of the rotation.

**Prerequisite:** Internal Medicine

**Location:** JMH (100%)
EMERGENCY MEDICINE ORIENTATION DATES
2015/2016

Orientation Dates for the 2015/2016 school year are as follows:

<table>
<thead>
<tr>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, June 23, 2015</td>
</tr>
<tr>
<td>Monday, July 20, 2015</td>
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<tr>
<td>Monday, August 17, 2015</td>
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<tr>
<td>Monday, September 14, 2015</td>
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<td>Tuesday, October 13, 2015</td>
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<tr>
<td>Monday, November 9, 2015</td>
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<tr>
<td>Monday, December 7, 2015</td>
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<tr>
<td>Tuesday, January 19, 2016</td>
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<tr>
<td>Tuesday, February 16, 2016</td>
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<tr>
<td>Monday, March 14, 2016</td>
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<tr>
<td>Monday, April 11, 2016</td>
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<tr>
<td>Monday, May 9, 2016</td>
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</table>

Set dates for ACLS and Sim Labs are available far in advance.
Please communicate with Clerkship Coordinator for these dates.

Revised January 2015
HCH EMERGENCY MEDICINE CLERKSHIP

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 990</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr. Pete Thompson</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1207</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:rpetethompson@gmail.com">rpetethompson@gmail.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Susan Mayorga, <a href="mailto:smm166@med.miami.edu">smm166@med.miami.edu</a>, 561-886-1207</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS</td>
<td>No</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Scheduling is flexible with at least 2 weeks advanced notice. The following days absolutely cannot be missed or rescheduled: Orientation day, 2 ACLS days, Sim Lab, and the final Friday – Case Presentation and Final Exam.</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Required/Clinical</td>
</tr>
</tbody>
</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

NOTE: Information on the Emergency Medicine Clerkship waiver is available near the end of this document.

Overview:
The purpose of the RMC Emergency Medicine clerkship at Holy Cross is to provide students with an opportunity to acquire a foundation of knowledge and skills to care for patients with emergency medical conditions. Every physician should possess adequate assessment and management skills to rapidly identify life-threatening conditions, to initiate care, and to know whom and when to call for assistance. The Emergency Department is also one of the few practice sites where students play an integral role in the initial evaluation of an “undifferentiated” patient – where the diagnosis is completely unknown on initial contact, and the clinician must “start from scratch” to formulate a differential diagnosis, plan of evaluation, and plan of management. Experience in a wide range of procedural skills are also readily available including airway management, suturing, and central venous line placement. Students will participate in an EMS ride along, simulation cases, and didactic sessions. Students are evaluated through clinical evaluations and a written examination.

A detailed syllabus will be provided. The EM rotation will include:
- Orientation/Procedure Labs
- day and night shifts in the HCH emergency room and urgent care area
- 1 eight-hour shift with an EMS crew
- ACLS course (2 days) at the Gordon Center for Research in Medical Education
- required classroom sessions (lectures, skills labs, case conferences)
- required 2 four-hour simulation lab sessions
- clerkship shelf examination
- Computer Modules: Prehospital Emergency Triage (2 hours); Management of Pediatric Trauma (2 hours)
Location: Holy Cross Hospital (100%)

Prerequisite: All Core Clerkships

Participating Faculty:
John Beach, M.D.
Mark Caputo, M.D.
Randi Beth Cooperman, PA-C
John Cunha, D.O.
Allen Diaz, PA-C
Robert Gehret, PA-C
Philip Guzzetta, PA-C
Jennifer Jackson, M.D.
William Korey, M.D.
Stacy Krause, ARNP
Christopher Maleski, PA-C
Linda McFadden, M.D.
Joe Munafo, M.D.
Gregory Schneider, M.D.
Taha Shaikh, M.D.
Karl Svoboda, M.D.
Sabrina Sznajderman, PA-C
Nicole Taft, PA-C
R. Peter Thompson, M.D.
Christos Tsonas, M.D.
Adria Vegner, ARNP
John Valentini, M.D.
William Veloz, M.D.
Robert Weber, M.D.

Scheduling/Attendance:
Specific shifts are assigned. Assigned shifts will include days, nights, holidays, and/or weekends. Accommodations may be made for no more than 2 interviews. Students must make up any missed shifts either during the rotation or within 4 weeks of its end. Orientation day (which includes 3 skills labs) and 2 ACLS days, the two Sim Lab Days per student, and the last Friday of the rotation cannot be missed or rescheduled. Students are not allowed to swap shifts without prior approval from the Director. If you will be late for or absent from a shift, you are required to inform Dr. Thompson.

If for any reason, a student misses ACLS/BLS class as scheduled during their rotation, the student is responsible for scheduling himself/herself for the class which will be held with the next rotation; or pay the cost for another 2-day ACLS class provided by an American Heart Association-approved sponsor, which must include BLS and a written examination; advise Dr. Thompson of those dates; and turn in the final ACLS grade to Dr. Thompson together with a copy of the ACLS card, when complete. This class must be completed within six weeks of the start date of their Emergency Medicine rotation. The student also has an option to schedule ACLS prior to his/her rotation. ACLS certification is a UM requirement for graduation.

Orientation: MANDATORY SESSION.
You must report to orientation at 07:00 AM at the start of the rotation at the Gordon Center for Research in Medical Education. Orientation materials, reading lists, and evaluation forms will be provided.

REQUIRED ATTENDANCE:
Classroom:
- ACLS – Two-day class
- Simulation Lab (each student attends two Simulation Lab sessions)
- Student Case Presentations to Dr. Thompson
- **Skills Labs** (e.g. wound management, airway skills, central line, ACLS)

**Course Completion:**
Students will be required to submit written logs (shift attendance, patient care logs, procedure logs, power point presentation, and course evaluation forms in order to complete the rotation. Any student encountering difficulty completing the procedure/patient care logs prior to the end of the 3rd week of the rotation, is required to meet with the Dr. Thompson, the Director. A final examination (multiple choice questions) will be given on the last Friday of the rotation. **All other documentation must be turned in within 5 business days after the rotation ends, or your grade will be submitted as an incomplete.**

Revised January 2015
FAMILY MEDICINE

NOTE: ANY schedule changes involving ALL Family Medicine rotations, must be authorized by Gladys Cordero before your schedule can be officially changed.
COMMUNITY/PREVENTIVE MEDICINE
Sociocultural Answers to Urban and Rural Effectiveness

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 828</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Asma Aftab, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2847</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Ronald Williams and Asma Aftab, Division of Community Health, Department of Family Medicine</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:aaftab@med.miami.edu">aaftab@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of core clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>30</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>Blocks 3B, 4AB, 5A, 6AB, 9AB, and 10AB</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>None</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</table>

**Goal:**
To provide students with practice-oriented and/or service-oriented learning opportunities related to community medicine. Students will learn about the types and functions of the formal and informal medical, public health, and social support programs involved in community health care. The course is designed to be individualized to students’ specific population-medicine interests.

**Objectives:**
- Teach students the biopsychosocial approach to medical care and how the approach is applied in the determinants of health model.
- Focus on health promotion and disease prevention in the community-based setting and as applied to populations of patients.
- Demonstrate the importance of the physical environment, the social environment, and access to care in determining the health of populations.
- Enhance students’ understanding of the relationship between culture and health, and improve their skills in delivering culturally sensitive health care services.
- Expose students to the social, financial, and ethical aspects of limiting and promoting access to health care for vulnerable populations.

**Course Design:**

**Didactic**
In a one-on-one instructional setting, the subject context is clinical preventive medicine, with a primary focus on the prevention and early detection of diseases. An effort is made to emphasize community health, and the role of the community in contributing to the health of individuals. Other important concepts include evidence-based practice, population-based medicine, and community-oriented primary care (COPC). The student will rotate through training experiences, for example, that go beyond clinical medicine and encompass environmental, public health, and multidisciplinary efforts to improve the health status of groups of individuals. Special emphasis is placed on participating in service-learning opportunities. Service learning refers to a structured learning experience that combines community-oriented service with explicit learning objectives, preparation, and reflection. Students are expected, therefore, to provide direct community-focused service, learn about the context in which the service is provided, and understand the connection between the service and their academic coursework.
Clinical
The student will be assigned a supervising preceptor at the appropriate facility and may work directly with a range of public health, social service, allied health and/or medical care specialists.

Location
Community health centers and clinics.

Prerequisite:
Completion of core clerkships

Expectation
Students enrolled in this course should contact course coordinator via email at least 2 weeks prior to the start of the rotation. Student will work at their clinical site for 8 hours per day 5 day a week.

Student Evaluation and Grading:
Students will be evaluated by their preceptor using a written standardized form. Students will be evaluated on their clinical competence, professionalism, reliability, peer relations and attendance. The student’s grade is based on the subjective evaluation of their preceptor in relation to the criteria mentioned above.

Reviewed January 2015
# FAMILY MEDICINE IN THE FLORIDA KEYS

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 816</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Marie Denise Gervais, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2953</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:gcordero@med.miami.edu">gcordero@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Gladys Cordero (HPG #420)</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks (based on availability)</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Family Medicine Clerkship</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>Based on availability</td>
</tr>
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<td>AVAILABLE:</td>
<td>Please contact coordinator for availability</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</table>

**NOTE:** Students may **ONLY** enroll in this elective with prior authorization from Gladys Cordero.

**NOTE:** Housing is no longer routinely available. Please communicate with Gladys Cordero to see if housing is available. Enrollment in this elective is dependent on availability.

**NOTE:** **ANY** schedule changes involving **ALL** Family Medicine rotations must be authorized by Gladys Cordero (see above for contact information), before your schedule can be officially changed.

## Overview:
Since late 1992, third year medical students have been given the opportunity to complete their Family Medicine rotation in the private office of physicians practicing in the Florida Keys. The popular rotation has prompted many students to request similar experience during the senior year.

## Goals / Objectives:
1. To become acquainted with the spectrum of problems dealt with by a general medical practitioner in a relatively rural area.
2. To acquire a basic knowledge of the management principles of common health issues in general medical care.
3. To become familiar with managed care concepts and its effects on practice
4. To develop an understanding of the concepts of continuity and coordination of care.

## Course Design:
According to William Carlos Williams, it is the humdrum, day-in, day-out, everyday work that is the real satisfaction of the practice of medicine. In the elective, students are assigned to a generalist physician -usually a family physician - and remain with that physician throughout the elective. Students are expected to be actively involved in the daily process of private practice, office routine, and practice management. Students will participate in the care of patients and all the other professional aspects in which physicians engage: home visits, hospital and nursing home rounds, as well as the many health related activities that flourish in this relatively rural community.

## Location / Participating Faculty:
Community Private Practice (100%)
Students may be assigned to physician practice sites ranging from Key Largo to Key West. Physicians participating in the senior elective have served as preceptors for the third year clerkship for many years and have attended faculty development programs presented by the Department of Family Medicine and Community Health. The physicians hold voluntary faculty appointments in the department.

The Florida Keys Area Health Education Center (FKAHEC) coordinates the students with the physician preceptors and provides student housing convenient to the practice site when available. *(Housing is no longer routinely available. Please contact Gladys Cordero to see if housing is available.)*

**Prerequisite:**
Family Medicine Clerkship

Revised January 2015
# FAMILY MEDICINE PRECEPTORSHIP

<table>
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<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Marie Denise Gervais, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2953</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:gcordero@med.miami.edu">gcordero@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Gladys Cordero (HPG #420)</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Family Medicine Clerkship</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>Please contact coordinator for availability</td>
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<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

**NOTE:** Students may **ONLY** enroll in this elective with prior authorization from Gladys Cordero.

**NOTE:** ANY schedule changes involving ALL Family Medicine rotations must be authorized by Gladys Cordero (see above for contact information), before your schedule can be officially changed.

**Overview:**
Students taking the Family Medicine Preceptorship will have the opportunity to experience the true essence and diversity of Family Practice in an ambulatory setting and develop knowledge of the specialty. *Students are expected to participate with their family physician preceptor in all health care related activities. These may include but are not limited to: management of hospitalized patients, nursing home visits, home visits and volunteer activities.*

**Location / Participating faculty:**
Community Private Practice (100%)

The student will work one-on-one with a family physician in solo or group practice in our community. The student will be assigned to a family physician in Broward or Miami-Dade County based on availability.

With prior authorization from the Dean’s office and the clerkship director; a student may be allowed to participate at a different site (i.e. another county or state, not on the specific clerkship list). However, the “student selected” physician must be a family physician. **Special requests need to be submitted at least 2 months in advance to be considered.**

**Prerequisite:**
Family Medicine Clerkship

Revised January 2015
WARD FAMILY MEDICINE

<table>
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<th>COURSE CODE:</th>
<th>MDR 819</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Marie Denise Gervais, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2953</td>
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<tr>
<td>EMAIL:</td>
<td><a href="mailto:gcordero@med.miami.edu">gcordero@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Gladys Cordero (HPG #420)</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</table>

NOTE: ANY schedule changes involving ALL Family Medicine rotations must be authorized by Gladys Cordero (see above for contact information), before your schedule can be officially changed.

Overview:
The overall goal for the students taking Inpatient Family Medicine (Ward Family Medicine) is to afford them the opportunity to experience Family Medicine in an inpatient setting, and to develop some knowledge of the specialty.

Course Design:
Subinterns are assigned to the Family Medicine Wards at Jackson Memorial Hospital and assume primary responsibility for patient care under close supervision provided by an assigned attending hospitalist.

Subinterns will attend grand rounds and specialty conferences. They participate in daily clinical activities such as morning reports, handoffs, and multi-disciplinary rounds. They take part in night and weekend calls every fourth night.

Goals:
1. To provide a clinical learning experience in family medicine in the hospital setting.
2. To enable students to learn some of the diagnostic and therapeutic techniques appropriate to Family Medicine.
3. To enable students observe the team approach to care of the hospitalized patient.
4. To enable students to view patients treatment and post-hospitalization care in the context of their families and community.

Objectives:
- Gather information through relevant and focused history taking
- Conduct directed and complete physical examinations
- Order appropriate tests and to effectively interpret results
- Engage in clinical reasoning, propose sensible differential diagnoses and formulate appropriate therapeutic recommendations
- Document encounters efficiently and accurately
- Effectively prioritize daily tasks for patient care
- Anticipate patient needs and organize discharge planning
- Ensure safe transition of care
- Demonstrate the understanding of the pathophysiology and natural history of human diseases
- Understand the interconnection and impact of cultural, psychosocial and environmental processes on disease manifestation
- Review and apply current literature and to place emphasis on the practice of evidence-based medicine
- Effectively communicate with the patient, his/her caregiver and with other physician and non-physician members of the healthcare system
- Efficiently coordinate multidisciplinary care through appropriate utilization of consultative and ancillary services
- Use information technology to access online medical information, review evidence from scientific studies and formulate appropriate management decisions
- Understand the risks and benefits of a procedure and to learn how to obtain informed consent
- Recognize the importance of quality improvement, risk management and to promote patient safety
- Maintain timely communication with primary care physicians, sub-specialists and consulting physicians
- Commit to excellence and to personal/professional growth through self directed learning; to perform evaluation of one's performance and develop plan for improvement

**Location:** JMH (100%)
The student will work on the Family Medicine inpatient unit at Jackson Memorial Hospital as a member of the ward team consisting of attending physicians and family medicine residents.

**Participating Faculty:**
Faculty from the Department of Family Medicine

**Prerequisite:**
Completion of all core clerkships

**Expectations:**
- The subintern is an integral part of the medical team and works under the close supervision of an attending hospitalist. He/she participates in the following aspects of patient care:
  - Initial evaluation (admission note, on service note…)
  - Daily management (progress notes, handoffs…)
  - Coordination of care with other specialties and ancillary services
  - Final Disposition (off service note, discharge planning, outpatient follow up…)
- The subintern carries 3-5 patients.
- The subintern participates in on-call duty which starts at 7:00 AM and ends at 7:00 AM the following day.
- On-call duty is every fourth night.
- On average, the subintern is allowed one day (24 hours) off per week. Therefore, on average, the subintern is working 6 days a week.
- The subintern will follow his/her assigned resident to the Family Medicine clinic on the afternoons that the resident is scheduled.

Revised January 2015
HUMAN GENETICS
GENETICS AND METABOLIC DISEASES

COURSE CODE: MDR 890
CLERKSHIP DIRECTOR: Deborah Barbouth, MD
TELEPHONE: 305-243-6048
EMAIL: DBarbouth@med.miami.edu
CONTACT: Chwanda ‘Nikki’ Frazier; 305-243-6056; c.frazier@med.miami.edu
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical, with exposure to Genetics laboratories, if desired

Overview: This elective exposes students to diagnosis and management of a variety of genetic syndromes, inheritable metabolic diseases, hereditary cancer syndromes, and other heritable disorders.

Course Design: During this elective, patients with genetic syndromes, chromosomal disorders, metabolic disease, and other Mendelian disorders are seen in the Mailman Center Metabolic and Genetics clinic, the Jackson Pediatric Genetics clinic, Specialty Genetics Clinics at UM, and the Jackson Memorial Hospital wards. The specialty clinics include Neurogenetics clinic, Cleft lip and palate clinic, Cancer Genetics clinic, Muscular Dystrophy clinic, Fragile X clinic, Hearing loss clinic, and Prenatal Genetics clinic.

Goals/Objectives: Students will be exposed to and participate in the care of children and adults with genetic disorders and get a basic understanding of laboratory based diagnostic testing for these conditions.

Location: Mailman Center for Child Development (75%), UM clinics (10%), JMH clinics (5%), and in-patients (10%).

Prerequisite: None

Expectations: The student attends lectures, seminars and participates in Journal Clubs and will gain exposure to a wide array of genetic problems in pediatric and adult patients.

For Genetics and Genomics Pathway Students Only: Students in the pathway may elect to continue their Genetics research elective if they have the approval of their research mentor. A senior student may concentrate on an ongoing research project involving clinical, stable isotope, cyto genetic, biochemical, cell culture, and recombinant DNA methods. It is also acceptable to do non-laboratory based clinical research. If the student elects to do research, planning should begin and permission granted before the elective time.

Student evaluations and grading: Students are evaluated based on performance in clinical activities, their medical knowledge based on their level of training, and patient/professional interactions. Four year pathway research is evaluated as part of the overall pathway curriculum.

- Knowledge of basic genetic principles and their application to determine the mechanism of heritable disorders of humans.
• **Skills** in pedigree development and analysis. Skills in Medical Genetic laboratory evaluations: newborn screening, biochemical analysis for inborn errors of metabolism, cytogenetic evaluations for malformations, prenatal diagnosis, and Molecular genetics analysis of Mendelian and complex inheritance. Skills in identification of common syndromes. Skills in relaying genetic information to patients and other family members.

• **Attitude** towards the use of the discipline of Medical Genetics for the prediction, intervention and prevention of premature morbidity and mortality.

Revised August 2015
MEDICAL EDUCATION / INTERDISCIPLINARY
CARING FOR THE COMMUNITY – FREE CLINICS ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 949</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHP DIRECTOR:</td>
<td>Amar Deshpande, MD (Co-Director) Erin Kobetz, PhD (Co-Director)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>Dr. Deshpande - phone: 305-243-4898 Dr. Kobetz – phone: 305-243-6185</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:adeshpande@miami.edu">adeshpande@miami.edu</a> / <a href="mailto:ekobetz@med.miami.edu">ekobetz@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Raysa Christodoulou (<a href="mailto:RChristodoulou@med.miami.edu">RChristodoulou@med.miami.edu</a>)</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 clinical credits gained by attending 18 clinic sessions spread across clinical years 3 and 4, to be completed by March of 4th year. Students must sign up prior to the first Monday in July of their junior year, prior to the start of the didactic sessions.</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>15 - preference given to students in the J. Weiss Social Medicine Pathway</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>Continuous during years 3 and 4 (All blocks)</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>Not applicable</td>
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<tr>
<td>TYPE:</td>
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</tr>
</tbody>
</table>

**NOTE** – Students must sign up prior to the first Monday in July of their junior year, prior to the start of the didactic sessions.

**NOTE** – Students will receive credit for clinic sessions only while being an active student in the MD degree track – they will not receive credit for sessions attended while on Leave of Absence (research, personal) or during their time working on additional degrees (MD-MBA, MD-PhD, MPH, etc).

**Overview:**
This elective provides an opportunity for third and fourth year medical students to provide clinical care at student-run free clinics while advancing their knowledge of the social determinants of health and the barriers that uninsured patients encounter in obtaining primary medical care and specialty care when needed. The student-run free clinic elective will provide medical students with an engaging clinical experience that will prepare them to more effectively advocate and care for uninsured patients.

In addition to their clinical roles, students will be actively involved as both teachers and learners. Working under the direct supervision of faculty physicians, students will participate in training and educating volunteer underclass students by leading clinical care teams and conducting wrap-up sessions at the end of each clinic session. To prepare them for their educator roles, students will receive didactic training outside of clinic on various topics pertaining to teaching skills and the social determinants of health.

This longitudinal experience provides students the opportunity to receive two weeks of elective credit by completing the required didactic sessions and at least 18 clinical experiences that may be scheduled over the course of 21 months during years 3 and 4.

The Free Clinic elective is available to all students; however it will be required of all third and fourth year students in the social medicine pathway.
Course Design:
In order to receive credit for this elective, students must attend at least 18 sessions at the free evening clinics held every week at the San Juan Bosco (SJB) clinic or the Lotus House (LH) clinic. Patients in these free clinics will be assessed by a team of medical students, working under the direction of a faculty attending physician. Students on this elective will serve as team leaders, supervising both a first and second year medical student who, as a group, will conduct a history and physical examination of clinic patients and then discuss possible management plans. The team of students will then present the patient to the supervising faculty physician and formulate a management plan. Subsequently, the student team will see the patient with the attending physician and together, they will finalize the management plan. Elective students will work with the attending physician to ensure that all components of the management plan are adequately addressed and documented.

At the end of each clinic session, the elective student will conduct a wrap-up session with the care team, emphasizing important issues encountered and reviewing management plans, all in the context of providing care in a resource-poor free clinic environment. The elective student will also be required to complete an online reflective evaluation for practice improvement at the end of each clinic session, the purpose of which is to serve as a record of attendance and also to identify individual strengths and weaknesses regarding leadership and teaching ability, clinical knowledge, and clinical skills.

Students must also attend at least 5 approved didactic sessions designed to address topics related to community-based free clinics and the resources and considerations required to effectively meet the medical needs of the disadvantaged communities of Miami-Dade County. One of these didactic sessions is required (EMR training) and is held at the beginning of the academic year; this session must be attended in order to receive a final passing grade.

Didactic Core Curriculum
- EMR training

Other Didactic Topics (examples)
- Social determinants of disease
- Community health resources
- How to use clinical guidelines and best practices to optimize quality of care
- Age-specific prevention and screening
- Health education and literacy
- Managing chronic illness

Goals:
- Provide students with experience providing primary and some specialty care in a free community clinic serving the diverse uninsured population of Miami-Dade County.
- Enhance the clinical and patient management skills of students.
- Learn to navigate the complex and limited “system” of care available to uninsured patients.
- Learn about the social determinants of health and disease.
- Develop skills as a mentor, team leader, and educator.

Objectives:
This elective will help students improve their clinical competency and leadership skills, while providing them with an opportunity to learn about community health and primary care. The objectives of this elective rotation are:
- Develop a more comprehensive understanding of community health and the social determinants that contribute to health disparities.
- Learn to more effectively navigate the health care system by observing how insurance policy, qualifications, and other barriers may prevent patients without insurance from accessing health care.
• Develop an understanding of the community resources available to those without insurance so that students can become effective patient advocates and help patients gain access to needed care.
• Learn how to practice medicine in a resource-poor setting by limiting diagnostic procedures and treatments to those that are the most cost-effective and feasible given financial limitations.
• Gain experience in providing primary care, including preventive and screening services.
• Gain a deeper appreciation for continuity-of-care and the nature of a long-term patient-physician relationship by participating in the care of patients in a primary setting over the course of 21 months.
• Gain clinical experience in the assessment and management of chronic illnesses.
• As the student leaders of a medical team, acquire effective skills and experiences teaching and mentoring younger medical students.
• Observe the administrative operations of a student-run medical clinic.
• Support the San Juan Bosco Clinic and Lotus Wellness Center in their mission to provide free specialized health care to uninsured patients.

Location:
The free clinic elective clinical experiences will take place in:
• San Juan Bosco Clinic (Tuesday evenings)
  Corpus Cristi Catholic Church
  730 NW 34th Street
  Miami, FL 33127
• Lotus Wellness Center (Monday evenings)
  Lotus House
  217 NW 15th Street
  Miami, FL 33136

The wrap-up sessions will be conducted in the community clinics at the end of each clinical session. The location of the didactic sessions will be determined by the Jay Weiss Center for Social medicine.

Participating Faculty:
Both of the free clinics are supervised by UMMSM faculty and housestaff who volunteer their time at these evening sessions. The majority of faculty are fulltime regular. There are also a few community physicians with active voluntary faculty appointments who occasionally attend the clinic.

The core didactic session will be conducted by the course directors. Other didactic sessions will be conducted by various faculty recruited by the course directors from the clinical departments and the Department of Epidemiology and Public Health.

Prerequisite:
None

Expectations:
Clinical Experience: Students will commit to volunteering for a minimum of 18 clinic sessions during their third and fourth years at the following clinics:
• San Juan Bosco Clinic on Tuesday nights
• Lotus Wellness Center on Monday nights

Students may replace up to 4 clinic sessions by working all day at one of the DOCS community health fairs for every two clinic sessions missed.

Students must attend at least 5 didactic sessions, one of which must be the EMR training.
Students will conduct wrap-up team discussions at the end of each clinic night and complete a reflective evaluation of the clinic session that will serve as a record of their attendance.

**Student Evaluation and Grading:**
The Free Clinic elective is graded Pass/Fail.

Students will be evaluated using the following methods:
- Attendance at the required number of clinic sessions, including facilitating a team discussion at the end of each session
- Attendance at the required didactic sessions
- Completion of a reflective evaluation for practice improvement at the end of each clinic session

Completing all of the above requirements is sufficient to receive a passing grade in the elective.

Reviewed June 2015
INTRO TO HEALTHCARE SYSTEM QUALITY IMPROVEMENT – ACHIEVING BETTER OUTCOMES

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1005</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Yvonne Diaz, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-689-5407</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:y.diaz1@med.miami.edu">y.diaz1@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Barbara Riverol <a href="mailto:briverol@med.miami.edu">briverol@med.miami.edu</a>, 305-689-1242</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 elective credits gained by completing online coursework, attending didactic sessions and completing a scholarly project during clinical years 3 and 4, to be completed by March of 4th year. <strong>Students must sign up prior to the first Monday in July of their junior year, prior to the start of the didactic sessions.</strong></td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>6 – <strong>must interview first with Course Director</strong></td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>Continuous during years 3 and 4 (all blocks)</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>No</td>
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<td>INTERVIEWING TIME:</td>
<td>Not applicable</td>
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<td>TYPE:</td>
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**NOTE –**

- **Students must sign up prior to the first Monday in July of their junior year, prior to the start of the didactic sessions.** An informational meeting will be held during Patient Safety Week.
- **Students will receive credit for the Didactics / Coursework (Online and Small Group Seminar – see below) activities only while being an active student in the MD degree track – they will not receive credit for sessions attended while on Leave of Absence (research, personal) or during their time working on additional degrees (MD-MBA, MD-PhD, MPH, etc).**
- **Similarly, students must be active in the MD degree track while working on their Process/Quality Improvement Project.**
- **Students in the MD/MPH track at the Regional will not be allowed to take this course at this time.**

**Overview:**

This elective was conceived out of the recognition for the need for medical students to broaden their knowledge of the healthcare system, and their role in facilitating change within this structure. In order to be well rounded physician-leaders, students should have a basic understanding of their role in the team of healthcare professionals within the framework of our healthcare system. As such, this course aims to provide students with a better understanding of how health care disciplines outside of medicine (such as nursing, pharmacy, laboratory, etc) as well as business, administration and public health fields interact. One way to study this cross-disciplinary intersection is through familiarizing oneself with the basics of process improvement as it applies to health care.

This elective provides an opportunity for third and fourth year medical students to gain knowledge of the fundamentals of healthcare quality and process improvement through a combination of didactic learning sessions and hands-on experience. Students will expand their learning environment beyond the typical classroom and clinical settings in order to complete a practical, relevant quality improvement project working in collaboration with health care administrators, allied health professionals and physicians leaders at our institution. This longitudinal experience provides students the opportunity to receive two weeks of elective...
credit by completing online coursework through the Institute for Healthcare Improvement Open School, classroom-based didactic sessions, “field work” outside of patient-physician encounter, and, ultimately, a scholarly project in a quality/process improvement area of their choosing.

Course Design:
In order to receive credit for this elective, students must complete a process improvement project designed under the guidance of a faculty advisor, as well as complete required online and classroom-based coursework and attend relevant interdisciplinary meetings throughout their two years.

Part I: The Process/Quality Improvement Project (~75% or 60 hours)

The majority of the required effort for this elective will be dedicated to a process improvement project. The project will be designed to be completed in ~60 hours and will culminate in a final written report and oral presentation. Students and their faculty advisor will collaborate on the process improvement project in the University of Miami/Jackson Health System. There are many ongoing efforts throughout the health system that students will be able to join. Faculty are available to guide students’ individual projects in areas of particular interest to them. The bulk of the project will occur during the student’s fourth year. Some examples of projects include:

- Decreasing length of stay in the University of Miami Hospital ED
- Decreasing turnaround time for GI biopsies
- Reducing wait times in the Bascom Palmer Retina clinic
- Innovating a Patient Transfer Center in the University of Miami Hospital
- Decreasing wait times in Chemotherapy Treatment Unit at Sylvester
- Increasing re-schedule rate of cancelled surgeries at Bascom Palmer
- Reducing overall length of stay in University of Miami Hospital
- Decreasing pharmacy orders on hold at University of Miami Hospital
- Optimizing OR inventory at University of Miami Hospital

Part II: Didactics/Coursework (25%)

A) Online Coursework: In order to gain a basic understanding of the tenants of quality/process improvement, students will complete ~10 hours of online coursework through the IHI Open School. The online courses will be drawn from the IHI “Improvement Capability” module, which consists of 7 lessons on basics of quality improvement. Example topics include:

- Fundamentals of Improvement
- Measuring for Improvement
- Plan-Do-Study-Act Cycles
- Quality Improvement in Practice

B) Small Group Seminars: In order to complement self-directed learning online, the course will include eight didactic sessions, which are designed to further explore topics related to quality improvement in the healthcare setting. The didactic component of the elective will be divided into two parts, a core curriculum and experiential learning.

   i. Core Curriculum: Four classroom-based didactic/seminar style sessions of ~90minutes distributed quarterly during the student’s third year each comprise the “core curriculum” and must be attended in order to receive a final passing grade (these days cannot be made up). The “core curriculum” will include sessions intended to solidify and further develop topics addressed in the online coursework. Core curriculum will be based upon fundamentals of process improvement, introduction to Six Sigma management framework, and other clinical quality improvement fundamentals. Core curriculum will be taught by medical faculty, business
faculty and visiting professors. Examples of topics in the core curriculum include:

1) Basics of Quality Metrics Inside and Outside of the Hospital
2) Root cause analysis
3) Compliance
4) The Psychology of Change

ii. Experiential Learning: Additionally, throughout their 3rd and 4th years, students will attend 4 interdisciplinary meetings related to the areas of patient safety and quality improvement. Students will have a variety of options to fulfill this requirement, allowing the selection of sessions to be at the discretion of the student’s interest and schedule. Sessions can be completed any time before March of 4th year. Examples of meetings that qualify for credit include:

1) Strategy and Finance Committee Meetings at UM Hospital
2) Patient Experience Committee Meetings
3) Infection Control Meetings
4) Case Management Rounds

Goals:
- Develop skills as a healthcare leader and champion for change in the delivery of healthcare
- Provide students with an opportunity to participate in quality improvement projects within the University of Miami/Jackson Health System
- Engage and network with hospital administrators and physicians involved in process and quality improvement
- Learn common process improvement vocabulary to effectively communicate with others
- Learn how to conduct meetings within the framework of a process improvement project, and prepare for future opportunities in quality improvement in their careers.

Objectives:
- Develop a comprehensive understanding of the various factors that influence successful healthcare improvement initiatives.
- Understand the framework of process improvement projects in a healthcare setting and be able to apply these concepts in a scholarly project.
- Gain experience executing all aspects of project selection including: project viability, project scoping and prioritization, selection of project champions, process owners and team members.
- Learn how to collect and analyze baseline data and conduct measurement systems analysis.

Location:
Online sessions will be completed through the Institute for Healthcare Improvement online course system: www.ihi.org

Didactic sessions will be held on the medical campus (UMH, UMHC/SCC, ABLEH), and the projects will take place throughout the health system.

Participating Faculty:
Full-time faculty includes Dr. Yvonne Diaz, Dr. Efren Manjarrez, Dr. Ingrid Vasiliu-Fuentes, Richard Melnyck and additional quality improvement healthcare administrators and faculty throughout the health system.

Prerequisite:
None
Expectations:
Students must complete 10 hours of Institute for Healthcare Improvement online courses, participate in four 90-minute didactic classroom sessions, four small group sessions, and complete a scholarly process improvement project (estimated at 60 hours).

Student Evaluation and Grading:
The elective is graded Pass/Fail.

Students will be evaluated using the following methods:
- Completion of the required IHI Open School online courses.
- Attendance at the 4 required number didactic classroom sessions and 4 administrative shadowing/interdisciplinary experiences.
- Completion of a process improvement project under the direction of a faculty mentor.
- Presentation of the results of the project, in written and oral form, at a final group meeting.

Completing all of the above requirements is sufficient to receive a passing grade in the elective.

Revised January 2015
# HOSPITALS, HEALTH CARE SERVICES AND ACCESS:
## AN INTERDISCIPLINARY INQUIRY

(An interdisciplinary course in collaboration with the Schools of Law, Medicine, Nursing & Health Studies, Business Administration, Architecture, the College of Engineering and the Department of Epidemiology & Public Health)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 837</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSE DIRECTOR(S):</td>
<td>Alex J. Mechaber, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-0496</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:AMechabe@med.miami.edu">AMechabe@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Dr. Mechaber</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>7 Saturday seminar sessions during Spring 2016</td>
</tr>
<tr>
<td></td>
<td>(Required to attend at least a total of 5 sessions; including the first and last modules of the course)</td>
</tr>
<tr>
<td></td>
<td>(counts as a 2 week elective)</td>
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<tr>
<td>PREREQUISITE:</td>
<td>None</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>8 (additional students possible depending on student registration from other Schools/Colleges)</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>Saturdays Spring 2016</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>No</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Not Applicable</td>
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**Overview:**
Hospitals are settings in which great numbers of people converge and interact in surprisingly many ways. This interdisciplinary course will offer graduate students across the University the opportunity to appreciate and examine closely the complexity of the hospital form and the necessarily multiple perspectives within which we view, think, and work in hospitals.

**Course Design:**
Seven full-day/eight-hour Saturday classes ("modules") will be offered. Over the course of the semester, students will be required to attend **five** of the seven full-day modules and complete an interdisciplinary case presentation.

*All students are required to attend the FIRST and LAST full-day modules of this seminar course.*

**Dates for AY 2015-2016:** (all sessions occur from 9am-4pm)
1. February 6, 2016 *required attendance for all students*
2. February 13, 2016
3. February 20, 2016
4. February 27, 2016
5. March 19, 2016
6. March 26, 2016
7. April 9, 2016 *required attendance for all students*
Feb. 6, 2015: Required first day.
- President Julio Frenk: Opening Talk
- Panel (am): Access to Healthcare Services: A Global Perspective
- Panel (pm): How is the UM hospital environment is changing
- Assignment of case studies

Feb. 13: Health Care for Whom?
- Prof. Fran Hill (Law): Affordable Care Act and Its Implications for Access to Healthcare
- Prof. Jonelle Newman (Law): Medical-Legal Partnerships – Access and Outcomes

Feb. 20: Challenges for the Traditional Hospital: Access for All
- Prof. Doris Ugarizza (Nursing): The Role of Nursing in 21st Century Health Care
- Dr. Olveen Carasquillo (Medicine): Physicians as Caretakers or Gatekeepers

Feb. 27: The Environment of Health Care: Economic, Social and Built
- Prof. Joanna Lombard (Architecture): The Hospital Building as an Institution
- Prof. Steve Ullmann (Business): Health Care in a High-Tech World: Economic and Social Implications

March 19: Patients: How Do They Obtain Care
- (Epi and Public Health): Engaging Communities to Ensure Equitable Access
- Prof. Laura Kohn-Wood (Educational Psychology): Mental Health Service Utilization

March 26: Alternatives to Hospitals
- Dr. Louis Marcelin (Anthropology): Hospital Ethnography
- Prof. Crystal Adams (Sociology): Community Organizations and Access to Care

April 9: Required final class, case study presentations

**Note: After registration for the course, students will rank the modules they wish to attend in order of their preference; however, assignment to a student’s top five choices is not guaranteed. Students will receive an email from the School of Law regarding the ranking of preferences once registered for the course.**

Goals/Objectives:
Specific goals/objectives of each of the modules will be available at a later date

Location:
All sessions will be held at the School of Law in the Faculty Meeting Room on the 4th floor of the Law School Library, located at 1311 Miller Drive in Coral Gables.

*Morning coffee/bagels and a lunch break with sandwiches will be sponsored by the School of Law and the Miller School of Medicine at each module.*

Prerequisite:
None

Expectations:
Students will be expected to do the assigned readings prior to each module and to participate actively in class discussion throughout the semester.
**Student Evaluation and Grading:**
As in all senior electives, grading is Pass/Fail. All students will be required to attend at least five out of the seven modules. Students will attend the first and last full day module as mandated in addition to 3 other full day modules.

Medical students will be required to complete an interdisciplinary case presentation with at least one student from a different discipline. Satisfactory completion of the presentation along with attendance at 5 of the 7 modules will result in two weeks of academic credit.

Revised October 2015
MEDICAL-LEGAL PARTNERSHIP

COURSE CODE: MDR 966

CLERKSHIP DIRECTOR: Pat Caralis (p.caralis@med.miami.edu)  
Ed Olsen (EOlsen@med.miami.edu)

TELEPHONE: 305-575-3160 or 305-212-4202 (PAGER)

EMAIL: see above

CONTACT: Pat Caralis

LENGTH OF ELECTIVE: 2/4 weeks

PREREQUISITE: Internal Medicine and Surgery Clerkships
For Health Law Pathway Students, PreRequisites may be waived

NUMBER OF STUDENTS: 3

AVAILABLE: Available ONLY Blocks 3B-11B

U.S. VISITING STUDENTS: Yes

INTERVIEWING TIME: No

TYPE: Clinical

It is mandatory you contact one of the course directors two weeks prior to your start date to make arrangements for your rotation.

Overview:
Medical-Legal Partnership clinic presents issues of health in the broader social context of people’s lives, providing knowledge and skills from both disciplines to the advancement of health through joint medical-legal advocacy and interdisciplinary solutions to complex problems.

During the course, students from medicine will be partnered with various mentors to focus on basic legal issues in the context of medical care. They will have the opportunity to work in unique clinical experiences which focus not only on medical care of actual patients but also on broader policy issues that affect public health. They will have an opportunity to work with the Child protection Team, Justice Outreach with the Veterans courts, and with the Infection Control team of the Hospital to learn how medical expertise works with hospital regulations and laws to impact on health outcomes of the public. They will also participate in the legal clinics with law students as medical “experts” to work together to advocate for patients by the elimination of social determinants that adversely affect patient health such as income and employment, housing, education, legal status, and personal safety. The Medical-Legal clinic at the Miami Veterans Administration Medical Center (Medical and Psychiatric clinics), will allow students to use their clinical skills and learn about the complex intersection of poverty, health and law. There they will develop insight into how the law may be used as a tool to improve health, and how health care providers and lawyers can work together to invoke more effective and preventive remedies for patients and clients.

Course Design:
Medical students will be partnered with mentors in various programs, including the medical clinics alongside Medical Residents, Forensic Psychiatry fellows and Medicine and Psychiatry Attendings seeing patients in the clinic. In clinic, they will evaluate patients from the perspective of their individual discipline and formulate a comprehensive management plan for their patients. Students will be seeing cases which include capacity assessments, disability evaluations, advance care planning (living wills, powers of attorney), restoration and termination of rights, confidentiality requirements, poverty and benefits applications, immigration and health status. Additionally, students will rotate to the different clinical sites: Child Protection Team, Veterans Court, Mental Health Forensic Psychiatry clinics, Infection control rounds. They will attend weekly interdisciplinary sessions at the Law school campus that where they will have the opportunity to review current cases,
including Medicare and Medicaid entitlements, insurance advocacy, disability assessments and Social Security Disability. They will have the opportunity to attend a session at the Probate courts, Mental Health courts (Voluntary/Involuntary treatments), and Social Security Disability hearings. They will have the opportunity to practice their clinical skills to include expert witness and deposition techniques, where they will act as the physicians.

Additionally, each student can be expected to be assigned topics, based on their cases, which they will present during their rotation. They will be responsible for the research and presentation. Because of the shortened length of their rotation, students may not be able to accompany patients at any court hearings, but they would be welcome to attend and participate in the development of the advocacy issues for their patients. The law students over a semester course represent these patients in various courts, and will be able to share with the involved medical students the conclusions of any hearings.

*Dates and times subject to confirmation and possible change.

**ROTATION SCHEDULE**

<table>
<thead>
<tr>
<th><em>On first day of rotation report to Dr. Caralis at VA hospital Rm B1039 8:30 AM</em></th>
<th><strong>MONDAY</strong></th>
<th><strong>TUESDAY</strong></th>
<th><strong>WEDNESDAY</strong></th>
<th><strong>THURSDAY</strong></th>
<th><strong>FRIDAY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00AM-12N</td>
<td>Broward Veterans Court</td>
<td>Child Protection Team</td>
<td>VA Med Law clinic-Drs. Caralis/Olsen</td>
<td>Mental Health Clinics</td>
<td>Law School</td>
</tr>
<tr>
<td>12N-1:30 PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30-4:00 PM</td>
<td>Broward Veterans Court</td>
<td>Law School</td>
<td>Dr. Baracco Infection Control</td>
<td>Dr. Caralis MVAMC-Hospital Administrative &amp; Ethics Committee</td>
<td>Law School</td>
</tr>
</tbody>
</table>

1. **ASSIGNMENTS:** In order to enhance your experience by maximizing the attending attention you will get in the specialty services you have been assigned this schedule. ALL CHANGES (including scheduling interviews) MUST BE PRE-APPROVED**PLEASE NOTE THAT CLINICS ARE CLOSED ONLY ON OFFICIAL SCHOOL HOLIDAYS. Absence without permission will result in appropriate actions by the supervisors.
2. **CURRICULUM FOR ROTATION**

   a. **Veterans Court**: You will attend with Dr. Delgaldo the intakes and review cases that are presented to the Veterans courts, including criminal charges. The medical interface with the legal system includes substance abuse, mental illness, PTSD.

   b. **Child Protection Team**: You will attend with Dr. Lambert the evaluation of children referred to the team for possible abuse and also dependency hearings.

   c. **VA Medical legal clinic**: You will attend with Drs. Caralis and Olsen and do medical evaluations of patients self-referred for legal issues which impact their medical health. Cases will include capacity assessments, disability examinations, evaluations for VA benefits, advance directives and permanency planning, landlord tenant issues, family issues (domestic violence).

   d. **Infection Control Team**: You will attend with Dr. Baracco the infection control Team and their role in evaluating hospital issues and setting policies which impact patients, providers and hospital procedures.

   e. **UM Law School**: You will attend the Law school and review cases as “expert Medical providers” and interact with the Law school students and faculty, Professors Newman and Swain who will be providing legal representation for real clients.

3. **SPECIAL PROJECTS**: During your 2 week elective you will also have the opportunity to attend one of 2 hospital committee meetings with Dr. Caralis and/or the Chief of Staff of the Miami VAMC, Dr. Marcia Williams, the Medical Executive committee, The Ethics Consult committee, where you will be able to observe how hospital issues and policies are reviewed and set. This will provide you the opportunity to see how hospitals are run and what a broad range of issues occur.

   **Goals:**
   1. Establish a foundation in medicine and law in health care for subsequent clinical experiences.
   2. Build on basic issues in medicine and law that students will encounter in their future endeavors as practitioners of medicine and law.
   3. Teach students about the collaborative relationship between medical ethics and law and professional identity formation.

   **Objectives:**
   1. Students will develop interdisciplinary strategies for medical and legal decision-making to approach clinical problems and issues.
   2. Identify appropriate resources (books, relevant journal articles and case law that deals with the topic).
   3. Experience opportunities for collaboration of medicine and law.

   **Location:**
   - Medical Campus (clinics) and Law School (Coral Gables) Campus (for lectures although faculty anticipate a rotation between campuses)

   **Participating Faculty:**
   - Medical school and law school faculty

   **Prerequisite:**
   - Internal Medicine and Surgery core clerkships
   - PreRequisites may be waived for students in the Health Law Pathway
**Expectations:**

- The students will be expected to attend and participate in all clinics and complete written assignments on time. The rotation coordinator will be informed of all unavoidable absences and reserves the right to not assign full credit for the course. Professionalism as mandated by the Schools of Medicine and Law is expected.

**Student Evaluation and Grading:**

Students will be evaluated on a pass/fail basis based upon:

1. Attendance to all mandatory sessions (clinics, court sessions, Specialty rounds)
2. Assigned Team presentation

Revised March 2014
PROFESSIONAL DEVELOPMENT FOR MEDICAL STUDENT LEADERS

COURSE CODE: MDR 939
CLERKSHIP DIRECTOR: Alex J. Mechaber, MD
TELEPHONE: 305-243-0496
EMAIL: amechabe@med.miami.edu
CONTACT: Dr. Alex J. Mechaber
LENGTH OF ELECTIVE: 5 seminar sessions in July
Plus organizational responsibilities throughout the year
(2 weeks credit given)
PREREQUISITE: Leadership position in Academic Societies (director, assistant director, or executive staff, training directors), DOCS, or Student Government
Executive staff
Other interested students only with approval from Dr. Mechaber
NUMBER OF STUDENTS: 50
AVAILABLE: Offered one time each year, starting in July, ending in March
(2 week credit time can be placed anytime during the months listed)
You must attend ALL 5 seminars in July to receive credit (No exceptions)
U.S. VISITING STUDENTS: None
INTERVIEWING TIME: Not Applicable
TYPE: Didactics and group exercises

Goals / Objectives: To learn:
1. Learning styles and Kolb's cycle of learning
2. How teams function and succeed
3. Leadership styles and effectiveness
4. Effective teaching techniques
5. Mentoring and giving feedback

Course Design / Expectations:
1. Students must hold a leadership position within the Academic Societies (as a society director, assistant director, a member of the society executive staff, or training director), DOCS, or Executive Student Government staff.
2. The course will span the senior year, from July through March.
3. During the month of July, assigned readings, didactic sessions, and group exercises will be offered during evenings and weekends; students will need to be available to attend ALL of these sessions in July in order to receive the 2 weeks of academic credit.
4. These activities are designed to teach the fundamental aspects of teamwork, leadership, teaching and learning, and mentoring.
5. Throughout the year, students will be responsible for fulfilling the obligations of their specific position within the student organization.
6. Students in Academic Society positions will attend their society training and student report sessions to apply the information learned in the didactic sessions and will complete exercises to evaluate and improve their skills in these areas.
**Student Evaluation and Grading:**
By completing a combination of assigned exercises, attending all scheduled seminar sessions, and fulfilling student leadership responsibilities, each student will receive 2 weeks of elective credit.

**For credit, attendance is REQUIRED for ALL summer sessions in JULY.**

Reviewed January 2015
SENIOR CAPSTONE COURSE: TRANSITION TO RESIDENCY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1019</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr. Gauri Agarwal, Dr. Hector F. Rivera</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of core required M3 clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>20 (maximum per class)</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>10B (March 30- April 12)</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>No</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>No</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical Simulation</td>
</tr>
</tbody>
</table>

Overview:
The Senior Capstone Course offers fourth-year medical students an opportunity to review and hone core concepts, diagnostic/therapeutic algorithms, procedural skills, and communication tools in preparation for the internship year. This is an elective course offered to a maximum of 20 students per class.

Course Design:
- The course is two weeks in length and is a combination of didactic lectures, small group sessions, team building exercises, procedural skills training, paper cases and simulation based exercises. A self-evaluation survey will be offered at the beginning and end of the course. An objective structured clinical examination will take place at the end of the course in order to provide feedback on student preparedness for internship.
- A sample schedule is provided at the end of this course description.

Goals:
- The goal of this course is to ensure students have learned the knowledge, skills and attitudes necessary to be prepared for internship year.
  - The course will utilize the AAMC Core Entrustable Professional Activities (EPA) for Entering Residency to form the foundation of the course content. Components of the following EPAs will be discussed within the course:
    - Recommend and interpret common diagnostic and screening tests
    - Enter and discuss orders/prescriptions
    - Document a clinical encounter in a patient record
    - Provide an oral presentation of a clinical encounter
    - Form clinical questions and retrieve evidence to advance patient care
    - Give or receive a patient handover to transition care responsibility
    - Collaborate as a member of an interprofessional team
    - Recognize a patient requiring urgent or emergent care and initiate evaluation and management
    - Obtain informed consent for tests and/or procedures
    - Perform general procedures of a physician
    - Identify system failures and contribute to a culture of safety and improvement
  - Discuss the workload and pace of internship year and review key elements of time management, resident wellness, risk management and financial management.
  - Discuss strategies for maintaining professionalism and empathy in a rigorous work environment.
Objectives:

- At the end of the course, students will be able to:
  - List differentiating features and the key steps in diagnosis and management of several medical emergencies such as chest pain, mental status changes, shortness of breath and hypoxemia, fever, hypotension and hypertension, tachycardia and arrhythmias, acute kidney injury, electrolyte abnormalities, and hypo/hyperglycemia.
  - Demonstrate the ability to diagnose and manage selected emergent conditions in the setting of paper and simulated cases.
  - Demonstrate procedural competency in: intravenous access, phlebotomy, airway management and CPR.
  - Demonstrate the ability to interpret the following diagnostic tests: ECG, CBC, CMP, Lipid panel, Arterial blood gas, Cardiac Enzymes, Microbiologic Cultures, STD testing, HgBA1C, Urinalysis, Body fluid analysis (CSF, peritoneal and pleural).
  - Discuss key strategies for avoiding burnout and maintaining wellness during residency.
  - Demonstrate in small groups/role play the ability to call a consult, write an appropriate sign-out, deliver a verbal patient handoff, communicate with team members in a code, discuss end of life wishes with patients and families, perform a death notification, medical error disclosure, obtain informed consent, perform concise oral presentations, and educate students on a teaching team.
  - List time and financial management strategies, elements of malpractice, and reasons to notify risk management.
  - Discuss key strategies to maintain empathy, professionalism, and the skills of life-long learning during residency.

Location:

Gordon Center for Research in Medical Education, University of Miami.

Participating Faculty:

Core Faculty: Gauri Agarwal, M.D., F.A.C.P. and Hector F. Rivera, M.D.

Prerequisite:

Completion of core required M3 clerkships

Expectations:

- Students are expected to attend all lectures, small groups, procedural skills training, and simulation exercises within this course, be attentive and interactive during didactic lectures and small group exercises, and fully participate in procedural skills training and simulation based exercises.
- Some of the small group exercises will require preparatory reading.

Student Evaluation and Grading:

- The medical student will receive verbal feedback during small group exercises, procedural skills training, simulation exercise debriefs and an evaluation of their OSCE performance at the end of the course.
- Pass/Fail dependent upon attendance, participation, professionalism, and clinical skills.
### Week One:

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-10:00</td>
<td><strong>Course Introduction Pre-course Self Evaluation</strong></td>
<td><strong>Lecture: Emergent Cardiac conditions</strong></td>
<td><strong>Lecture: Emergent Respiratory conditions</strong></td>
<td><strong>Lecture: Emergent Vascular Conditions</strong></td>
<td><strong>Lecture: Hypotension</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Professionalism in Internship year</strong></td>
<td><strong>ECG Intro and Small group session</strong></td>
<td><strong>Small Group: Medical Error/Patient Disclosure</strong></td>
<td><strong>Small Group: End of Life Discussions/ Family meetings</strong></td>
<td><strong>Small Group: Communication Skills: Calling a consult/Consenting a patient/Death Notification</strong></td>
</tr>
<tr>
<td>10:00-12:00</td>
<td><strong>Small Group: Burnout/Wellness/ Time Management</strong></td>
<td><strong>Small Group: Medical Error/Patient Disclosure</strong></td>
<td><strong>Small Group: End of Life Discussions/ Family meetings</strong></td>
<td><strong>Small Group: Communication Skills: Calling a consult/Consenting a patient/Death Notification</strong></td>
<td></td>
</tr>
<tr>
<td>12:00-13:00</td>
<td><strong>Small Group: Burnout/Wellness/ Time Management</strong></td>
<td><strong>Small Group: Medical Error/Patient Disclosure</strong></td>
<td><strong>Small Group: End of Life Discussions/ Family meetings</strong></td>
<td><strong>Small Group: Communication Skills: Calling a consult/Consenting a patient/Death Notification</strong></td>
<td></td>
</tr>
<tr>
<td>13:00-15:00</td>
<td><strong>Small Group: Team STEPPS/Patient Safety</strong></td>
<td><strong>Procedure Lab: IV/Phlebotomy/ Megacode</strong></td>
<td><strong>Procedure Lab: Airway Management</strong></td>
<td><strong>PICO Overview and Project</strong></td>
<td><strong>PICO Overview and Project</strong></td>
</tr>
<tr>
<td>1:00-17:00</td>
<td><strong>Large Group Interactive Cases (MI, CHF)</strong></td>
<td><strong>Large Group Interactive Cases (COPD, PE)</strong></td>
<td><strong>Large Group Interactive Cases (Stroke, HTN emergency)</strong></td>
<td><strong>Large Group Interactive Cases (Anaphylactic Shock, Septic Shock)</strong></td>
<td></td>
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</tbody>
</table>
### Week Two:

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-10:00</td>
<td>Lecture: Fever</td>
<td>Lecture: Altered Mental Status</td>
<td>Lecture: Renal Failure and Electrolyte Abnormalities</td>
<td>Lecture: Hypo and Hyperglycemia</td>
<td>Small Group: Learning to teach your team (9-11 AM)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Lecture: Maintaining Empathy/Skills of Life Long learning (11-12 PM)</td>
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<tr>
<td>12:00-13:00</td>
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<tr>
<td>15:00-17:00</td>
<td>Large Group Interactive Cases (Disclosure of STI, Presenting in Rounds)</td>
<td>Large Group Interactive Cases (Drug induced AMS, ID induced AMS)</td>
<td>Large Group Interactive Cases (Hyperkalemia, Hyponatremia)</td>
<td>Large Group Interactive Cases (DKA, Hypoglycemia)</td>
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</table>

Created November 2014
RMC MEDICAL EDUCATION ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1009</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Daniel Lichtstein, MD &amp; Gauri Agarwal, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>; <a href="mailto:gagarwal@med.miami.edu">gagarwal@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito; 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>5 mandatory July Seminar Sessions and teaching activities throughout academic year. 2 weeks credit will be granted. Students must complete activities by 3/1/16.</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships. All students must email Dr. Agarwal directly by 6/1/15 for permission to take the elective.</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>10</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>Offered one time each year, starting in July, ending in March (2 week credit time can be placed anytime during the months listed) You must attend ALL 5 seminars to receive credit</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>None</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Education Elective</td>
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</table>

Overview
This elective is grounded in the University of Miami Miller School of Medicine MD/MPH track course work. It offers students who are interested in medical education the opportunity to become familiar with what is required to build and maintain a medical curriculum as well as hone their educational skills in the classroom and clinical setting.

The MD/MPH curriculum is able to provide an excellent environment for learning about medical education as it incorporates both problem-based learning and didactic lectures on the Miami campus as well as integrated and traditional clerkship models at the regional campus. This elective will allow senior students the opportunity to gain further insight into the overall goals of medical education and receive a well-rounded immersion in the areas of teaching and curriculum development.

Course Design
Students will work directly with a curriculum dean of the MD/MPH program throughout the academic year. There will be a set of core objectives that all students must complete that includes the following:

1. Attend all July Seminars. **This is a core mandatory component and students that are on externship at this time will not be able to take this elective.** Seminars will be held in the evening in order to facilitate attendance after daily clinical activities.
2. Attend and participate in required number (15) of teaching sessions. (See below.)
3. Read required articles regarding the goals and philosophies of medical education. A syllabus will be provided.
4. Develop or enhance existing education materials (converting lecture PPT to Team Based Learning session, adding public health objectives to PBL cases, converting lecture PPT to Khan Style video, etc.)
5. Write a final reflective piece that describes the students’ educational experience with the rotation.

Required Teaching Sessions: The hands-on component of the course allows the student to directly participate in the education of junior medical students. Students must complete at least 15 of the following activities and log these activities (after completion of the July seminars and prior to March 1st, 2016):
1. Students can assist faculty with facilitation of MD/MPH PBL courses in the morning on the Miami campus.
2. Students can lead physical exam teaching rounds once weekly at JFK medical center or when available on the Miami campus through academic societies.
3. Students can serve as educators for junior students at the Caridad clinic on Saturday mornings or other student run clinics with prior approval.
4. Students can take part in anatomy teaching as a teaching assistant.
5. Students can co-facilitate Problem Oriented Patient Sessions (POPS) in Miami or on the RMC.

Additional teaching opportunities will be considered with prior approval from course directors. Students must take part in a variety of the teaching activities listed above (at least 3 out of the 5 described teaching sessions above.)

**Required education project:** Students can work on creating their own medical education materials such as the development of a PBL case, creating materials for a Patient Oriented Problem Session (POPS) session, or creating their own Khan Academy style teaching video.

**Optional:** Students can attend Medical Education Grand Rounds in Miami or Medical Education Journal Club on the regional medical campus.

**Locations:**
- UMMSM Rosenstiel Medical Science Building, Miami, Florida
- JFK Medical Center, Atlantis, Florida
- Caridad Clinic, Boynton Beach, Florida

**Participating Faculty:** Daniel Lichtstein, M.D. and Gauri Agarwal, M.D.

**Prerequisite:** Completion of all core clerkships

**Expectations:**
The student will be responsible for reading all assigned materials and being prepared to discuss these with the participating faculty. Students will be required to fulfill all of their commitments including attending all seminars in July, reading assigned materials, participation in at least 15 teaching sessions, attendance at available medical education meetings and grand rounds, and creation of medical education materials. Students will meet with course directors in December in order to ensure that they are on track to complete the requirements. Finally, students are expected to complete a written reflective piece outlining their experience with the rotation.

**Student Evaluation and Grading**
- The student will be evaluated by the participating faculty with input from other faculty members and student feedback. A written evaluation will be provided to the student and discussed directly with the student at the conclusion of the elective.
- The evaluation will be on a Pass-Fail basis, and will be based upon attendance and participation in all aspects of the elective. Faculty will evaluate attendance at required sessions, participation, and quality of reflective piece submitted at the conclusion of the elective. Quality of new educational material that is produced will also be considered.

Revised January 2015
MEDICINE
ADULT ALLERGY & IMMUNOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 994</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Viviana Temino MD &amp; Lauren Fine MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-7888</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:VTemino@med.miami.edu">VTemino@med.miami.edu</a> and <a href="mailto:LFine@med.miami.edu">LFine@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Dr. Temino and/or Dr. Fine</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 wks or 4 wks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine Core Clerkship</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
<td>Clinical</td>
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**Overview:**
The adult Allergy and Immunology elective is designed to give senior medical students exposure to the spectrum of diseases seen in the field of Allergy/Immunology. The student will predominantly rotate through the outpatient clinic and see patients and procedures based on the emphasis of that location.

**Course Design:**
The student will spend the majority of their time in the outpatient AI clinics at DRI and Miami VA, seeing new patient visits and follow-ups. All patients seen by the student will be discussed with the attending. The student will also observe a variety of allergy testing, including skin testing to common aeroallergens and foods, and learn the basics of how to perform and interpret skin testing. Students may also have the opportunity to observe skin testing to penicillin, stinging insect, and local anesthetics, depending on the variability of the week. Student will observe and be instructed on the interpretation of basic spirometry. The student may also have the opportunity to perform inpatient AI consultations at the University of Miami Hospital and Jackson Memorial Hospital, also rounding with the attending.

**Goals:**
A. Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiology examinations, and cognitive skills as they relate to the diagnosis and treatment of allergic diseases.

B. Familiarize the medical student with allergy testing
   a. Understand the general indications for the procedure
   b. Major risks of the procedure
   c. Observation of the skin testing being performed, especially if they were involved with the evaluation of the patient

C. Reinforce a critical approach to the medical literature.

**Objectives:**
A. The medical student will be expected to be familiar with the basic evaluation and management of the following disorders:
   1. Allergic Rhinitis
   2. Vasomotor Rhinitis
   3. Chronic Sinusitis
   4. Food Allergy
   5. Medication Allergy
   6. Angioedema
7. Chronic Urticaria
8. Asthma

Exposure and education on primary immunodeficiency and stinging insect allergy may be obtained through clinic and hospital consults or additional readings.

B. The medical student will be expected to have read and discussed with faculty members relevant evidence-based literature pertaining to the particular patient’s allergic illness.

**Location:**
Diabetes Research Institute, 1st Floor Clinic (75%).
Miami VA Allergy Clinic, 8th Floor (25%).
Inpatient consults at UMH, UMHC, and JMH (1%).

**Participating Faculty:**
Faculty from the Division of Pulmonary, Allergy, Critical Care, and Sleep Medicine.

**Prerequisite:**
Completion of Internal Medicine Core Clerkship.

**Expectations:**
A. The student will be expected to participate in all activities (consultations, procedures, rounds, clinics, conferences) and be on time.
B. The student will be expected to be at clinic daily. Clinic hours are from 7:40am to 5pm, or until the last patient has been seen.
C. The student is expected to see all inpatient consults, 7 days a week.
D. Minimum of one History & Physical write-up per week of patients seen in either the Allergy Clinic or as an inpatient consult. Write-up will be presented to the attending physician.
E. The rotation coordinator needs to be informed of all absences and are subject to approval.
F. Professionalism as mandated by the School of Medicine is expected.

**Student Evaluation and Grading:**
A. A self-assessment examination will be administered to the medical student at the start and at the end of the rotation.
B. The medical student will receive a written evaluation at the end of the rotation. This will be reviewed with the student by the faculty evaluator.
C. The student will be asked to complete an evaluation of the rotation as a whole upon completion to allow for continual improvement of student experience.

**Required Reading:** (will be provided to student)
Northwestern University Allergy-Immunology Syllabus. Allergy and Asthma Proceedings. Vol 33(S1); May/June 2012.

Revised January 2015
Welcome to the Ambulatory Internal Medicine Rotation, an experience we hope you will find both enjoyable and clinically challenging. The following provides an overview of how this rotation functions:

**General Information:**

1. Rotation Contact information:
   a. Miriam Garcia - 305-585-5215 or email at mgarcia11@med.miami.edu. Please contact her for further questions and information if needed.
   b. Faculty Coordinators: Erin Marcus, MD and Marco Gonzalez, MD

2. Didactics/Conferences: Conferences are held on W, Th and Fri. mornings from 8 to 8:20 am at the desk in the back of the clinic. The specific schedule will be provided on the first day of the rotation. These brief topic reviews are conducted by residents, but students can also present topics if they wish; please let the supervising attending know if you wish to do so. In addition, on Wednesday afternoons, students are invited to attend the Academic ½ day held at the VAMC (which the PGY1’s attend) OR MKSAP review at 1:30 pm led by Dr. Marcus or the ambulatory chief resident in the ACC west 3d floor conference room.

3. Clinic Hours:
   a. Morning clinic starts at 8:00 am (except when conferences occur) and runs until 12:00 noon (or until the last patient is seen). Afternoon clinic sessions start at 1:00 pm and typically run until 5:00 pm (or until the last patient is seen). Please introduce yourself to the attending each morning and afternoon and he or she will assign you to a resident.

4. Session specifics: Each fourth year students will work with a resident or intern seeing patients. All patients must be presented to the supervising attending.
   a. Morning Ambulatory Clinic: General Types of visits:
      i. Initial visits: These patients are primarily new to our system. Initial evaluations should focus on comprehensive preventive care whenever possible. Frequently, these patients have multiple medical problems. In these cases, care should be focused on their chronic medical conditions with preventive counseling being provided as time permits.
Follow-ups: In addition, you may see patients here for a follow-up from a previous MAC appointment if they cannot be scheduled with a resident in continuity clinic in a timely manner.

Walk-ins: Patients with acute medical complaints. Visit should be focused on the presenting complaint.

ER follow-up: These patients were recently discharged from the ER. Patient visits should be focused on the complaint that brought them to the ER.

Hospital Discharge: Patients in this clinic have recently been discharged from the inpatient setting. Care should be focused on their inpatient issues. In addition, patients should be set up with their primary care physician for routine screening and preventive care.

Preop Clinic: Patients in this clinic are referred for preoperative assessment of surgical risk. Surgeries are elective (although some are urgent such as surgeries for malignancy).

Afternoon continuity clinic: these patients receive their primary care from a resident in the ACC west clinic. Most of these appointments are follow ups; interns and PGY2’s see some new patients also.

5. Other educational opportunities: residents on their medical ambulatory rotation are assigned at least one afternoon session with health professionals from other disciplines. Medical students are also welcome to attend these sessions, which are:

a. Monday afternoon: Physical therapy observation at the JMH physical therapy department, which is located in Room 146, on the 1st floor of the Rehab wing at JMH. Go to the rehab wing and ask at the reception desk and they will direct you. Ms. Taime Roque is the contact person. You should try to focus on how the PT service diagnoses and treats common outpatient musculoskeletal problems, such as back pain, neck pain, shoulder pain, knee and hip pain. If the session finishes before 5 pm, you should return to ACC west clinic and check in with the afternoon attending MD to help with patient care.

b. Tuesday afternoon smoking cessation class at JMH. These usually occur in the 3rd floor conference room in ACC west. Ms. Gladys Castro is the educator. The sessions usually begin at 1 or 2 pm. AFTER the class, you should return to the clinic and check in with the afternoon attending MD to help with patient care.

c. Friday afternoon: observation with podiatrist Dr. Bonner in the Podiatry/Diabetic Foot clinic (JMH rehab building, Room 112). You should go there directly after the noon conference and should arrive no later than 1:30 pm. After the session finishes, please return to the ACC west clinic.

6. Absences or changes in the schedule

a. All absences or changes must be approved by the clinic directors and/or the MAC attending supervising you.

7. Recommended Reading:

a. We urge you to read in order to complement the “in the trenches” experience that you are having in the clinic. In addition to enhancing your understanding of different cases, this will help you demonstrate a good fund of knowledge when you present cases to attending physicians. Reading should be done during your off time as well as during “downtime” when waiting for patients in the clinic. Here are some sources that we highly recommend:

i. Annals of Internal Medicine “In the Clinic” series – practical discussions of common outpatient problems

ii. The Cleveland Clinic Journal of Medicine – offers well-written reviews of many outpatient (and inpatient) topics
iii. **CURRENT Practice Guidelines in Primary Care**: this is published every year and is available online through the UM Calder library at: [http://www.accessmedicine.com/guidelines.aspx](http://www.accessmedicine.com/guidelines.aspx)

iv. **The US Preventive Services Task Force Guide to Clinical Preventive Services**: This is a “must-read” for primary care clinicians and is available online at [http://www.ahrq.gov/clinic/pocketgd.htm](http://www.ahrq.gov/clinic/pocketgd.htm)


**Educational Purpose:**

The ambulatory block rotation serves to enhance the medical student’s knowledge and skills in caring for the ambulatory medical patient. Students will primarily be seeing patients which are new to the outpatient clinic, addressing preventive screening as well as care of chronic conditions such as diabetes, hypertension, cardiomyopathy, and chronic obstructive pulmonary disease. In addition, they will be exposed to patients with the following characteristics:

- Ambulatory patients with acute complaints
- Gender-specific medical care
- Patients recently discharged from the inpatient setting or from the emergency room
- Patients being evaluated for surgery
- Patients presenting for routine GYN care.

**Mix of Diseases:**

Medical students will be exposed to patients with a wide range of medical and social issues. Patient ages range from 18 to Geriatric patients and are typically from the Dade County Public Health Trust. Students perform preoperative evaluations on surgical patient, focused examinations of patients with acute ambulatory complaints or who have recently been discharged from the inpatient and emergency rooms, and assess common complaints in the geriatric population. Medical problems encountered and managed typically include but is not limited to the following: preventive health examination, hypertension, diabetes, coronary disease, heart failure, dizziness, and headache.

**Overall Goals of the rotation:**

- Provide the opportunity for students to develop core generalist competencies:
  - Care of the new healthy patient
  - Care of patients with acute illnesses
  - Care of chronically ill patients with multiple medical problems
  - Comprehensive, gender-specific primary care of women
  - Focused care of patients with acute complaints and of patients recently discharged from the inpatient or emergency room settings
  - Preoperative Evaluation of the Ambulatory Surgical Patient
- Prepare students to manage the primary care gynecologic screening needs of their patients
- Foster students’ acquisition of life-long, self-directed learning skills
- Improve student knowledge of common ambulatory topics through reading assignments, didactics, and self-directed learning.

**Specific Competency-based Learning Objectives:**

- **Patient Care**: By the end of the ambulatory month rotation, each learner should be able to:
- Develop proficiency at interviewing, performing comprehensive and focused physical examinations based on clinical presentation, and developing tailored medical assessments and plans that are sensitive to patients’ needs and preferences.

- **Medical Knowledge:** By the end of the ambulatory month rotation, learners should be able to:
  - Demonstrate an open, analytical approach to the acquisition and application of knowledge to patient care by participation in ambulatory morning reports and morning conference series.
  - Develop knowledge, skills and attitudes related to a variety of medical problems, including but not limited to: osteoporosis, cervical screenings, reflux, hypertension, preoperative evaluation, common gender-specific complaints, common neurological complaints, and common ophthalmologic complaints.
  - Demonstrate a working knowledge of the guidelines and indications for cervical and breast screening in primary care

- **Interpersonal and Communication:** By the end of the ambulatory rotation, each learner should have:
  - Developed improved listening and communication skills by interactions with patients and their families, their colleagues and the clinic staff
  - Demonstrated an ability to work effectively with both colleagues and staff participating in patient care
  - Developed proficiency in chart documentation

- **Professionalism:** Learners should:
  - Demonstrate motivation for self-learning, demonstrating a desire for self-improvement
  - Demonstrate competence in providing patient-centered care to people from diverse cultures, age, genders, sexual orientation, and disabilities

- **Practice-Based Learning and Improvement:** By the end of the ambulatory rotation, learners should demonstrate:
  - Assessment of patient compliance to the ambulatory regimen and modification of prescribing practices accordingly.
  - An ability to learn from prior mistakes and apply this knowledge to improve one’s practice
  - Use of information technology and application of evidence from scientific studies to help improve their knowledge and/or patient care

- **Systems-Based Practice:** Learners should:
  - Demonstrate knowledge of the Public Health Trust system and its resources to ensure optimal patient care
  - Demonstrate a general familiarity with ways of helping low income patients obtain needed health care
  - Foster awareness of and responsiveness to the contexts and systems of health care in our community
  - Apply systematic and cost-effective strategies to prevention, diagnosis, and treatment in a manner that does not compromise quality of care.

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**Evaluations**

Student performance will be assessed by the faculty rotating on the ambulatory block rotation. Blank evaluations should be given to Miriam Garcia in the ACC West Clinic BEFORE THE END of the ambulatory elective. She will give them to the appropriately assigned attending.

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**Sample Ambulatory Block Rotation Schedule**
<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
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<tbody>
<tr>
<td>MED AMB (3B)</td>
<td>MED AMB (3B)</td>
<td>MED AMB (3B)</td>
<td>MED AMB (3B)</td>
<td>MED AMB (3B)</td>
</tr>
<tr>
<td>Physical Therapy Observation (Room 146, 1st floor of Rehab building) or ACC CONTINUITY CLINIC</td>
<td>Smoking Cessation Class (ACC West 3d floor conference room, 2 pm) and ACC CONTINUITY CLINIC</td>
<td>**Academic ½ day or ACC CONTINUITY CLINIC</td>
<td>ACC CONTINUITY CLINIC</td>
<td>PODIATRY (JMH Rehab Wing ROOM 146) and ACC CONTINUITY CLINIC</td>
</tr>
</tbody>
</table>

**Learners may go to the VAMC 10th floor for Academic ½ day, may participate in MKSAP review in the ACC west 3d floor conference room, or may stay at ACC clinic on Weds afternoons.**

Revised January 2015
ARTHRITIS

COURSE CODE: MDR 821
CLERKSHIP DIRECTOR: Elaine Tozman, M.D.
TELEPHONE: 305-243-7545
CONTACT: Cristina Flores [Clinical Research Building #974]
EMAIL: cflores@miami.edu
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S. VISITING STUDENTS: XXX
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

Overview / Goals:
This elective will teach the student an approach to the diagnosis, management and therapy of common rheumatic disease including rheumatoid arthritis, gout and osteoarthritis. In addition, unusual diseases such as systemic sclerosis, polymyositis, and vasculitis are seen. Students will become proficient in the examination of joints and interpretation of joint fluid findings.

Course Design:
A schedule is provided, with mandatory attendance expected.

The student will attend clinics at JMH and VAMC 4 half-days weekly. Patients will be assigned to the student and will be seen with one of the arthritis attendings. Arthritis Rounds are held three times weekly and there is a Journal club every two weeks. The schedule includes other teaching rounds.

Location:
JMH and VAMC Arthritis clinics.

Prerequisite:
None

Student Evaluation and Grading:
On the first and last day of their elective, a multiple choice examination will be provided for the student.

Contact office (305-243-7545) one week prior to rotation for schedule and book.

Reviewed March 2010
COURSE CODE: MDR 853
CLERKSHIP DIRECTOR: Mauricio G. Cohen, MD, FACC
University of Miami Hospital, Suite 1179
TELEPHONE: 305-243-5050
EMAIL: mgcohen@med.miami.edu
CONTACT: Angelica Escalante; 305-243-2218; aescalan@med.miami.edu
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Internal Medicine (Cardiology or Cardiology Consult preferred)
Must contact Dr. Cohen two weeks in advance via email
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks), with prior approval
TYPE: Clinical

Overview:
This is a 2-week elective intended to expose the senior medical student to the vast array of procedures performed in interventional cardiology. During the rotation, the student will have the opportunity to interact with multiple specialists who have expertise in various areas of interventional cardiology and attend cardiology conferences.

Course Design:
The student will spend time at the Catheterization Laboratory of University of Miami Hospital (UMH), and be actively involved in the care of patients undergoing procedures. The student will discuss all cases with cardiology fellows and attending physicians and scrub in 3 or more diagnostic and interventional catheterization procedures daily. The student will attend cardiology conferences and a weekly half-day clinic where he/she will either see patients referred for catheterization procedures or follow up patients who had recently undergone a procedure. Learning during the rotation will be case-based. The student will meet at least once weekly with Dr. Mauricio Cohen, the clerkship director, or a designated faculty member. During these meetings, the student will present the case log and discuss one of the two required case work-ups as detailed below.

Goals/Objectives:
A. Review and apply basic scientific principles, pathophysiology, clinical laboratory data, imaging examinations, and cognitive skills as they relate to the diagnosis and treatment of coronary artery disease and structural heart disease in the cardiac catheterization laboratory.
B. Familiarize the medical student with cardiac catheterization procedures (general indications for the procedure, major risks and complications, participation in procedures)
   1. List the risks and benefits of coronary angiography and percutaneous revascularization techniques, including angioplasty, stenting, and other valvular/structural procedures.
   2. Describe the basic aspects of vascular access techniques.
   3. List the most important indications and basic technique for right and left heart catheterization.
   4. Describe the most important aspects of the coronary, cardiac, and peripheral vascular anatomy.
   5. Use hemodynamic measurements performed in the catheterization laboratory to diagnose and determine severity of structural heart abnormalities (i.e.: congestive heart failure, abnormal chamber communications, valvular heart disease).
6. Correlate signs and symptoms and electrocardiographic abnormalities with angiographic and hemodynamic findings (i.e.: systolic ejection murmur with trans-valvular aortic gradient, coronary disease in patients with angina and/or ECG changes)

7. Identify the basic equipment used in the catheterization laboratory and the role of each member of the team (physician, nurse, technologist, ancillary staff).

8. Describe pre- and post-procedural patient management including appropriate pharmacologic interventions as well as landmark clinical trials.

C. Reinforce a critical approach to the medical literature.

Location:
Cardiac Catheterization Laboratory, University of Miami Hospital (3rd Floor) (100%).

Participating Faculty:
Interventional Faculty of the Division of Cardiovascular Medicine
- Mauricio G. Cohen, MD (Clerkship Director)
- Carlos Alfonso, MD
- Eduardo De Marchena, MD
- Alan W. Heldman, MD
- Claudia Martinez, MD
- Mauro Moscucci, MD

Prerequisite:
- Completion of Internal Medicine Core Clerkships. CCU, In-patient Cardiology, or Cardiology Consults preferred.
- The student must contact Dr. Cohen via email 2 weeks prior to starting the elective rotation for planning and to discuss expectations.

Expectations:
- The student is expected to report everyday to the Cardiac Catheterization Laboratory at UMH between 7:00 and 8:00 AM. Cases are usually scheduled until 5:00 – 6:00 PM. In order to take maximum advantage of this rotation, the student should be involved in at three or four cases every day. The student will maintain a case log including the date, diagnosis and procedures performed. (See Attachment)
- The medical student will be expected to participate in all clinical and academic activities related to the catheterization laboratory. These include:
  a. Academic:
     i. Clinical Cardiology Conference on Tuesdays at 8:00 AM (Seminar Center A & B, UMH)
     ii. Cardiology Grand Rounds on Tuesdays at noon (Seminar Center A & B, UMH)
     iii. Valvular / Structural Heart Disease meeting on Thursday at 7:00 AM (Board Room, UMH)
     iv. Interventional Cardiology Journal Club on Fridays at 7:30 AM (C403, JMH)
  b. Clinical: The student will actively participate in the care pathway of patients undergoing procedures in the catheterization laboratory, in which the student will be involved.
     i. Pre-procedure: clinical evaluation (history & physical), review of imaging and laboratory data, presentation to the attending physician, and discussion of indications and risks.
     ii. Procedure: the student will scrub in the case and participate as an active member of the team. During the procedure, the student will follow specific instructions by the attending physician or interventional fellow.
     iii. Post-procedure: Participate with the attending and cardiology fellow in the interpretation of hemodynamic and angiographic data and formulation of a management plan.
     iv. Outpatient Clinic: The student will attend a weekly half-day clinic under the supervision of the director of the cardiac catheterization laboratory.
• The medical student will be expected to be familiar with the basic evaluation and management of the following disorders in order of priority:
  a. Coronary artery disease
     i. Acute coronary syndromes
     ii. ST-elevation acute myocardial infarction
     iii. Chronic stable angina
  b. Valvular heart disease
     i. Mitral
     ii. Aortic
  c. Cardiomyopathies
     i. Hypertrophic
     ii. Dilated
     iii. Restrictive
  d. Pericardial disease
     i. Acute pericarditis
     ii. Tamponade
     iii. Constrictive
  e. Congenital heart disease
     i. Atrial or ventricular septal defects
     ii. Patent foramen ovale
  f. Peripheral vascular disease
     i. Intermittent claudication
     ii. Critical limb ischemia

• The medical student will be expected to have read and discussed with fellows and/or faculty members the basic aspects of:
  a. Basic hemodynamic evaluation
  b. Coronary anatomy
  c. Peripheral vascular anatomy
  d. Heart anatomy
  e. Indications for percutaneous coronary and peripheral vascular interventions

Student Evaluation and Grading:
• The medical student will receive a written evaluation at the end of the rotation. This will be reviewed with the student by the faculty evaluator.
• Two written case work-ups performed by the medical student will be reviewed with the Director of the elective rotation or designated faculty member. In addition to the basic elements of a history and physical examination. These work-ups will include an in-depth discussion of the pathophysiology of the patient condition, differential diagnoses, and indications for the procedure. During the presentations, the student will retrieve the case images and describe angiographic and hemodynamic findings and whether or not a therapeutic procedure was performed.
• Faculty performance and clerkship will be evaluated by the medical student.

References:

Reviewed January 2015
CARDIOLOGY CONSULT (JMH)

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<tr>
<th>COURSE CODE:</th>
<th>MDR 824</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Robert J. Myerburg, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5540, 305-585-5523</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:rmyerbur@med.miami.edu">rmyerbur@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Olga Paredes 305-243-7067 – <a href="mailto:oparedes@med.miami.edu">oparedes@med.miami.edu</a></td>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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Overview:
This rotation includes consultative diagnosis, electrocardiography, and intensive medical and surgical cardiac care at JMH.

Course Design:
Students work up patients and discuss the history and physical findings with the cardiology fellows, participate in daily consultation rounds with the attending cardiologists, and are in the supervision of fellows and faculty. Students attend and participate in the cardiology conference; and for those interested, a period of observation in the Cardiac Catheterization Laboratory may be arranged.

Goals:
Review and apply basic scientific principles in cardiology, pathophysiology, cardiac laboratory testing, and patient consultations as they relate to the diagnosis and treatment of cardiovascular disease.
- Understand the general indications
- Understand the major risks of treatment
- Observe patients’ cardiac and overall medical therapy progression, especially post cardiac procedures.
Reinforce a critical approach to the medical literature.

Objectives:
- The medical student will be expected to be familiar with the basic evaluation and management of the following disorders:
  - Coronary atherosclerotic heart disease and its complications
  - Non-ischemic dilated cardiomyopathies
  - Valvular heart disease
  - Inherited cardiac disorders
  - Cardiac evaluation in organ transplant candidates
  - Heart disease in pregnancy and labor and delivery
- The medical student will be expected to have read and discussed with fellows and/or faculty members the basic aspects of the following clinical problems:
  - Acute coronary syndromes
  - Heart failure
  - Cardiac arrhythmias
  - Diagnostic tests
Location:
JMH (100%)

Participating Faculty:
Drs. Robert J. Myerburg and Rafael Sequeira

Prerequisite:
Completion of Internal Medicine cores

Expectations:
The student will be expected to participate in all activities (consultations, rounds, clinics, conferences) and be on time. The rotation coordinator (Dr. Myerburg) needs to be informed of all absences. Professionalism as mandated by the School of Medicine is expected.

Student Evaluation and Grading:
- The medical student will receive a written grade based upon his/her performance during the rotation. He/she will receive a briefing on performance at the end of the rotation.
- The student will be asked to complete an evaluation of the rotation as a whole upon completion to allow for continual improvement of the student experience.
- Faculty performance will be evaluated by the medical student (submitted anonymously).
- Credit will be given for exceptional performance.

Reviewed January 2015
CARDIOLOGY TEACHING LAB – HARVEY
4 WEEK PROGRAM

COURSE CODE: MDR 823
CLERKSHIP DIRECTOR: Joseph Esterson, M.D.
TELEPHONE: 305-243-6491
EMAIL: jesterson@med.miami.edu
CONTACT: Donna Fye dfye@med.miami.edu Gordon Center for Research in Medical Education [D-41]
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Internal Medicine or prior approval
NUMBER OF STUDENTS: 24
AVAILABLE: 4AB, 5AB, 6AB, 8AB, 9AB
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

Overview:
This rotation consists of a comprehensive review of cardiology for the clinician. A clinician must be able to evaluate and treat cardiology patients, as they represent the largest subset of patients they see with significant disease.

Goals:
Each student is trained to develop the knowledge and skills needed to conduct a complete cardiovascular history and bedside examination.

Course Design:
The rotation includes the integration of the Bedside Evaluation with the current indications for non-invasive and invasive diagnostic testing. The diagnosis and management of valvular heart disease, coronary heart disease, hypertensive heart disease, congestive failure, and congenital lesions are covered by didactic lectures, patient presentations (certain rotations), review of highly selected material during Self-Learning time, and by group and individual sessions with Harvey, the Cardiopulmonary Patient Simulator. The UMedic multimedia computer curriculum is incorporated into the elective to further interactive self-learning.

Didactic ECG and Arrhythmia lectures are given daily. Each student will also read, interpret and review electrocardiograms and arrhythmias with clinical faculty. Students will use web-based programs, Essential ECG and Essential Arrhythmia, to facilitate their learning.

While patients are evaluated during certain rotations, there are no specific patient responsibilities. The course is streamlined with time tightly structured and scheduled. Most days are finished by 1:00 p.m. Attendance is closely monitored.

Location: Gordon Center for Research in Medical Education (100%)
Prerequisite: Internal Medicine or prior approval

Student Evaluation and Grading:
Evaluation is achieved by several methods, including testing of skills and cognitive knowledge, and day-to-day contact with faculty during large and small-group sessions.

Revised January 2015
CARDIOLOGY TEACHING LAB – HARVEY
2 WEEK PROGRAM

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<td>Joseph Esterson, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6491</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jesterson@med.miami.edu">jesterson@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Donna Fye <a href="mailto:dfye@med.miami.edu">dfye@med.miami.edu</a></td>
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<tr>
<td></td>
<td>Gordon Center for Research in Medical Education [D-41]</td>
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Overview:
This rotation consists of a focused review of cardiology for the clinician. A clinician must be able to evaluate and treat cardiology patients, as they represent the largest subset of patients they see with significant disease.

Goals:
Each student is trained to develop the knowledge and skills needed to conduct a complete cardiovascular history and bedside examination, and interpret ECG’s and arrhythmias.

Course Design:
The rotation includes the integration of the bedside evaluation with the current indications for non-invasive and invasive diagnostic testing. The diagnosis and management of valvular disease, coronary disease, hypertensive heart disease, heart failure and congenital lesions are covered by group and individual sessions with Harvey, the Cardiopulmonary Patient Simulator. The UMedic multimedia computer curriculum is incorporated into the elective to further interactive self-learning.

Didactic ECG and Arrhythmia lectures are given daily. Each student will also read, interpret and review electrocardiograms and arrhythmias with clinical faculty. Students will use our web-based programs, Essential ECG and Essential Arrhythmia, to facilitate their learning.

There is no patient contact. The course is streamlined with time tightly structured and scheduled. Most days are finished by 1:00 p.m. Attendance is closely monitored.

Location: Gordon Center for Research in Medical Education (100%)

Prerequisite: Internal Medicine or prior approval

Student Evaluation and Grading:
Evaluation is achieved by several methods, including testing of skills and cognitive knowledge, and day-to-day contact with faculty during large and small-group sessions.

Revised January 2015
CARDIAC CARE UNIT (UMH - CCU)

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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Robert Hendel, MD  <a href="mailto:rhendel@med.miami.edu">rhendel@med.miami.edu</a></td>
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<td>TELEPHONE:</td>
<td>305-243-8092</td>
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<tr>
<td>EMAIL:</td>
<td><a href="mailto:EMadera@med.miami.edu">EMadera@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Elsi Madera</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of core clerkships Contact Dr. Hendel at least 1 week before starting</td>
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</table>

**Overview:**
This elective is intended to provide the senior medical student with a variety of cardiac critical care experiences, including acute myocardial infarction, heart failure, valvular heart disease, and arrhythmias. The student will also be exposed to clinical research ranging from valvular heart disease to stem cell transplantation. Three-to-four cardiology conferences will be offered each week, supplementing the daily teaching rounds, which include didactic presentations. An opportunity for procedures experience, including central line placement, will also be available.

**Course Design:**
The student will participate in all CCU activities Monday through Friday, and round on one day of the weekend. He/she will work under the direct supervision of second or third year medical residents, who will in turn be supervised by the cardiology fellow and CCU attending. The student will work up approximately one new admission daily, follow that patient during their CCU stay, and assist in their discharge and transfer. Attendance at 8 AM daily rounds is mandatory. These will include detailed presentations and patient management discussions, as well as didactic presentations by the attending. Bedside teaching, including heart auscultation, will also be a prominent feature of the rotation. The student will also attend Cardiology Clinical Conference and Cardiology Grand Rounds, both held on Tuesdays. The student will have an opportunity to observe the post-operative management of cardiac surgery patients.

**Goals:**
- Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, imaging examinations, and cognitive skills as they relate to the diagnosis and treatment of ischemic heart disease, valvular abnormalities, acute and severe heart failure, cardiac arrhythmias, and structural heart disease
- Understand the use and appropriateness of cardiac testing procedures
- Reinforce an evidence-based approach to clinical care and a critical approach to the medical literature.
- Observe life-threatening conditions that cardiac patients and their family experience, developing a compassionate approach to these situations.

**Objectives:**
A. The medical student will to discuss and demonstrate the basic evaluation and management of the following disorders:
   1. Acute coronary syndromes
   2. Cardiogenic shock
3. Heart failure
4. Ventricular and supraventricular arrhythmias
5. Valvular heart disease including but not limited to aortic stenosis, and mitral regurgitation
6. Acute respiratory failure

B. The medical student will be able to discuss the procedural aspects and clinical applications of the following procedures performed on CCU patients:
   1. Echocardiography
   2. Nuclear cardiology
   3. Cardiac catheterization
   4. Percardiocentesis
   5. Ventilator management
   6. Aortic balloon counterpulsation
   7. Inotropic therapy

Location:
University of Miami Hospital – CCU 5th floor (100%)

Participating Faculty:
The University of Miami Cardiovascular Division faculty, assigned to the CCU, including:
   Robert Hendel, MD
   Nanette Bishopric, MD
   Mauricio Cohen, MD
   Alan Heldman, MD
   Mauro Moscucci, MD

Prerequisite:
Successful completion of Core Clerkships.
Contact Dr. Hendel at least 1 week before starting.

Expectations:
The student will be expected to participate in all activities, including patient evaluation, clinical presentations, procedures, and review imaging procedures. The student should also attend morning and afternoon sign-out rounds, as well as all cardiology conferences held at University of Miami Hospital. The student should maintain professional behavior at all times and be on time for all activities.

References
Please refer to the reading at the following link:
http://sites.google.com/site/jmhvachiefs/home/rotations/cvicu-articles

Student Evaluation and Grading:
The medical student will receive a written evaluation at the end of the month. This will be reviewed with the student by the faculty evaluator. Two written assessments performed by the medical student will be reviewed, as well as at least 5 oral patient presentations. Faculty performance will be evaluated by the medical student.

Reviewed January 2015
CORONARY CARE UNIT (JMH - CCU)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 829</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Robert Myerburg, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5523</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Noemi Melendres (<a href="mailto:NMelendr@med.miami.edu">NMelendr@med.miami.edu</a>) 305-585-5540</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2/4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of core Internal Medicine clerkship</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

**Overview / Course Design:**
This elective presents students with the opportunity to follow patients with life endangering cardiac problems from the moment of admission to the hospital to discharge from the Unit. Particular emphasis is placed on clinical aspects of diagnosis and management of these patients. Participation in the insertion of Swann-Ganz and pacemaker catheters shall be allowed for students who show exceptional interest. The rotation will, in addition, provide experience in computerized monitoring of arrhythmias, EKG and echocardiographic interpretations, and experience in interpreting cardiac catheterization data.

**Location:**
JMH CCU. (100%)

**Prerequisite:**
Internal Medicine Clerkship

Reviewed January 2015
ENDOCRINOLOGY, DIABETES, & METABOLISM

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 826</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Maria Pilar Solano, MD.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-1062</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Angie Saint Jean</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine and Surgery</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>4</td>
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<td>AVAILABLE:</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
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</table>

Overview:
This is a 4-week elective intended to expose the senior medical student to a spectrum of experiences in Endocrinology and Diabetes.

Course Design:
The student will spend time at Jackson Memorial Hospital (JMH) and University of Miami Hospital (UMH) on the inpatient Diabetes and Endocrinology consult services, seeing patients in consultation and follow-up and discussing them with the fellows and attending on rounds. The student will attend the JMH and VA diabetes and endocrinology outpatient clinics. All students will meet with Dr. Solano, the rotation coordinator and are expected to attend all conferences.

Goal:
Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiology examinations, and cognitive skills as they relate to the diagnosis and treatment of endocrine diseases.

Objectives:
A. The medical student will be expected to be familiar with the basic evaluation and management of the following disorders:
   1. Diabetes (in-patient and out-patient settings)
   2. Thyroid gland hypo and hyperfunction
   3. Thyroid nodules and thyroid cancer
   4. Adrenal disorders
   5. Pituitary disorders

B. The medical student will be expected to have read and discussed with fellows and/or faculty members the basic aspects of the following clinical problems:
   1. Microvascular complications of diabetes
   2. Macrovascular complications of diabetes
   3. Diabetic ketoacidosis
   4. Hypothyroidism
   5. Hyperthyroidism
   6. Adrenal insufficiency
   7. Interpretation of thyroid function tests and dynamic endocrine tests.
Location:
Jackson Memorial Hospital (40%), University of Miami Hospital (25%), University of Miami Hospital and Clinics (15%), and Veterans Administration Miami Hospital (20%)

Participating Faculty:
Faculty from the Division of Endocrinology, Diabetes and Metabolism

Prerequisite:
Internal Medicine Clerkship

Expectations:
The student will be expected to participate in all activities (consultations, rounds, clinics, conferences) and be on time. The rotation coordinator needs to be informed of all absences. Professionalism as mandated by the School of Medicine is expected.

Student Evaluation and Grading:
The medical student will receive a written evaluation at the end of the month. This will be reviewed with the student by the faculty evaluator.

Revised January 2015
GASTROENTEROLOGY

COURSE CODE: MDR 830
CLERKSHIP DIRECTOR: Amar R. Deshpande MD
TELEPHONE: 305-243-6884 (Cristina Flores)
EMAIL: cflores@med.miami.edu
CONTACT: Amar R. Deshpande MD
LENGTH OF ELECTIVE: 2 / 4 weeks
PREREQUISITE: Internal Medicine and Surgery
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

OVERVIEW
This is a 4-week elective intended to expose the senior medical student to a wide spectrum of experiences in gastroenterology. Each week or two, the student will rotate through a different hospital/clinic setting and see patients/procedures based on the emphasis at that location.

COURSE DESIGN
The student will spend time at Jackson Memorial Hospital on the consult service, seeing patients in consultation and follow-up and discussing them with the fellows and attending on rounds. The student will also watch endoscopy and learn its indications and findings. At the University of Miami Hospital, students will be exposed to a more tertiary care setting, also rounding with the fellow and attending and watching procedures, some of which are more advanced and not done at Jackson. At the University of Miami Hospital and Clinics, the student will be given an outpatient experience, including subspecialty clinics in Inflammatory Bowel Disease and Motility while also watching advanced endoscopic procedures. The student will have the opportunity to go to clinic and watch procedures at the VA as well. All students will meet with Dr. Deshpande, the rotation coordinator, a few times during the rotation, and they are expected to attend fellow conferences and the VA and JMH fellows’ clinics.

GOALS
1. Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiologic examinations, and cognitive skills as they relate to the diagnosis and treatment of gastrointestinal diseases.
2. Familiarize the medical student with gastrointestinal endoscopy
   a. Understand the general indications for the procedures
   b. Know the major risks of the procedure
   c. Observe endoscopy, especially when involved with the evaluation of the patient
3. Reinforce a critical approach to the medical literature.

OBJECTIVES
1. The medical student will be expected to be familiar with the basic evaluation and management of the following disorders:
   a. Diseases of the esophagus
   b. Acid-peptic disorders
   c. Irritable bowel syndrome
d. Inflammatory bowel disease  
e. Gastrointestinal and pancreatic neoplasms  
f. Pancreatitis  
g. Gastrointestinal manifestations of HIV  
2. The medical student will be expected to have read and discussed with fellows and/or faculty members the basic aspects of the following clinical problems:  
a. Dysphagia  
b. Abdominal pain  
c. Nausea and vomiting  
d. Diarrhea  
e. Constipation  
f. Gastrointestinal bleeding  
3. There is a separate Hepatology division; therefore, specific topics dealing with liver and biliary tract disease will not be the systematically discussed during this rotation.

**LOCATION**  
Jackson Memorial Hospital (40%), University of Miami Hospital (40%), University of Miami Hospital and Clinics (10%), Veterans Administration Miami Hospital (10%)  

**PARTICIPATING FACULTY**  
Faculty from the Division of Gastroenterology  

**PREREQUISITE**  
Completion of Internal Medicine and Surgery Core Clerkships  

**EXPECTATIONS**  
The student will be expected to participate in all activities (consultations, procedures, rounds, clinics, conferences) and be on time. The rotation coordinator (Dr. Deshpande) needs to be informed of all absences. Professionalism as mandated by the School of Medicine is expected.  

**STUDENT EVALUATION AND GRADING**  
1. The medical student will receive a written evaluation at the end of the month. This will be reviewed with the student by the faculty evaluator.  
2. The student will be asked to complete an evaluation of the rotation as a whole upon completion to allow for continual improvement of the student experience.  
3. Faculty performance will be evaluated by the medical student (submitted anonymously).  
4. Credit will be given for exceptional performance.  

Revised January 2015
GERIATRICS CLERKSHIP (Required)
This is a required four-week course in geriatric medicine for medical students

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 957</th>
</tr>
</thead>
</table>
| CLERKSHIP DIRECTOR:       | Rose van Zuilen, PhD  
Juan Carlos Palacios, M.D (Associate Director) |
| TELEPHONE:                | 305-575-3388  |
| EMAIL:                    | rzuilen@med.miami.edu  |
| CONTACT:                  | geriatriceducation@med.miami.edu  
Lauren Brown; LBrown5@med.miami.edu |
| LENGTH OF ELECTIVE:       | 4 weeks       |
| PREREQUISITE:             | None          |
| NUMBER OF STUDENTS:       | 14            |
| AVAILABLE:                | All blocks    |
| U.S. VISITING STUDENTS:   | No            |
| INTERVIEWING TIME         | 2 days (4wks), with prior approval |
| TYPE:                     | Clinical      |

Overview:
The medical student will spend four weeks at the VA Medical Center and assume responsibility for the care of older patients under the supervision of board-certified geriatricians, geriatric medicine fellows, and members of the interdisciplinary care team. Our mission is to teach, model and assess the knowledge, skills, and attitudes needed by medical students to complete comprehensive geriatric assessments. Clinical activities will mainly take place in multiple chronic care venues at the VA including the Intermediate Care Unit, the Hospice Unit, the Community Living Center, and the Geriatric Primary Care Clinic. Students will also participate in geriatric services at the University of Miami Hospital and they may have an opportunity to rotate at the Miami Jewish Health System.

Course Design:
Clinical activities take place weekdays between 8:00 and 4:00 PM. Clinical activities are complemented by mandatory small group sessions, independent self-learning (training modules on GerlU, assigned readings, and EBM assignments) and divisional Geriatrics Grand Rounds and other educational conferences. The clerkship has a strong competency-based component which focuses on core geriatric syndromes. The student must complete an online and a simulated patient competency assessment and achieve the performance standard on each component in order to receive a passing final grade.

Goals:
- Promote students’ knowledge of geriatric assessment and longitudinal care in multiple venues for care of the elderly
- Give students experience as first responders for acute changes in long-term care patients
- Give students experience with end-of-life issues including breaking bad news, recognizing imminent death, and pronouncing death
- Teach students how to competently administer, score and interpret selected geriatric assessment tools (e.g., mini-mental state exam, confusion assessment method, timed up-and-go, and geriatric depression scale)
- Improve the ability of students to recognize and assess common geriatric syndromes (e.g., dementia, delirium, falls, pressure ulcers, and polypharmacy)
- Have students apply the results of geriatric assessment to develop an integrated problem list and care plan
• Enhance students’ understanding of the common ethical issues in geriatrics with emphasis on frail dependent elderly in long-term care environments
• Involve students in the interdisciplinary approach to care planning

Objectives:
Each learning activity has its own set of objectives. Below is the subset of clerkship objectives that are linked to the two competency assessments.

Cognition
1. State the diagnostic criteria for dementia and apply the criteria to a clinical vignette
2. Given a case description, identify the medical illnesses, physical limitations, psychological and demographic factors that may impact the MMSE score
3. Given a clinical case, choose targeted diagnostic tests to help identify the cause of dementia
4. Given a dementia patient with common behavioral problems, choose appropriate nonpharmacological and pharmacological therapeutic strategies
5. Given a clinical case description, identify the risk factors for delirium
6. State the CAM criteria for delirium and apply the criteria to a clinical vignette
7. Propose (list) supportive measures appropriate for any patient with delirium
8. Given case descriptions of patients with behavioral manifestations of delirium, select those patients for whom a pharmacological treatment strategy is appropriate
9. Given a description of a patient with delirium, identify the likely complications and outcomes
10. Given case descriptions of confused older adults, distinguish between those with dementia, depression, delirium or other causes of impaired cognitive function
11. Administer and score a Mini-Mental State Exam according to the guidelines defined in the Mini-Mental State Examination User’s Guide

Pressure Ulcers
1. Given a case scenario identify the factors that increase the risk for skin breakdown (pressure ulcers)
2. Given a case scenario with descriptions of different types of wounds (pressure, venous, diabetic, skin tear) and a list of options, identify (select) the most likely diagnosis
3. List general measures for pressure ulcer prevention and management

Location:
Veterans Administration Medical Center (85%), University of Miami Hospital and University of Miami Hospital and Clinics (15%) (Some students may have an opportunity to complete a rotation at the Miami Jewish Health System).

Participating Faculty:
Faculty from the Division of Gerontology and Geriatric Medicine: The primary faculty members include:
Rose Maria van Zuilen, PhD – Clerkship Director and Director, Longitudinal Theme in Geriatrics, Pain Management, and Palliative Care
Juan Carlos Palacios, MD – Associate Clerkship Director and Director, Hospice Unit
L. Fernando Samos, MD – Director, Community Living Center
E. Paul Cherniack, MD – Director, Geriatrics Primary Care Clinic
Joel Danisi, MD – Director, UMH Geriatric Consult Service and Med/Psych Unit
And other interdisciplinary faculty members

Prerequisite: None

Expectations:
Students are expected to become active members of the interdisciplinary team. They will attend morning rounds, closely follow assigned patients, and present during interdisciplinary team meetings. Attendance at didactic activities is mandatory unless prior approval has been received for an absence. Whenever possible, absence requests must be received prior to the start of the clerkship. Although specific learning activities are
assigned, we also expect students to be self-directed learners and identify learning issues pertaining to the care of their assigned patients and other patients whose care they may be involved in.

**Student Evaluation and Grading:**
A multimodal evaluation approach is used to determine the student’s final grade including performance on the standard UMMSM clerkship student evaluation form and grades received on a progress note, an EBM presentation, a final exam, and for attendance and participation. Students are expected to turn in a learning objective checklist to the Geriatric Medicine Education Office at the end of the rotation.

Revised January 2015
GERIATRICS (Clinical)

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<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Rose van Zuilen, PhD, Clerkship Director (VA CLC207)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-575-3388</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Rose van Zuilen, PhD</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:geriatriceducation@med.miami.edu">geriatriceducation@med.miami.edu</a></td>
</tr>
<tr>
<td></td>
<td>Lauren Brown; <a href="mailto:LBrown5@med.miami.edu">LBrown5@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2-4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of Geriatrics Clerkship (MDR 957)</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year EXCEPT Blocks 11B, 12A, and 12B</td>
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<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
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<td>Clinical/Research</td>
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**Overview:**
This senior level elective in geriatric medicine allows students to gain additional experience evaluating older patients in a variety of care settings under the supervision of attendings physicians and fellows in geriatric medicine. It can also be designed to give students a clinical or research experience in a specialized area of geriatrics tailored to their interests. Students will be assigned to a primary clinical venue and will have opportunities to rotate through other care settings (inpatient consultation, outpatient, home-based and/or long term care).

**Course Design:**
Students will be assigned a primary mentor whom they will meet with regularly during the 2 or 4-week elective. They are expected to attend the weekly Geriatric Medicine conferences and other educational activities offered by the division of Gerontology and Geriatric Medicine. The elective can be tailored to students’ particular educational goals both in terms of clinical and educational activities. Students who are interested in gaining experience in other scholarly activities (e.g., presentations, research) may be able to do so depending on the length of the rotation and availability of resources. This will be arranged on an individual basis.

**Goals:**
The goals of this elective are to improve students’ ability to assess and manage complex older patients and to enhance students’ understanding of specialized geriatrics services.

**Objectives:**
Specific objectives depend on the chosen focus of this elective.

**Location:** Several venues are available including the VA Medical Center, University of Miami Hospital, and the Miami Jewish Health System.

**Participating Faculty:**
Faculty from the Division of Gerontology and Geriatric Medicine

**Prerequisite:**
Geriatrics Clerkship (MDR 957)
**Expectations:**
Students should contact Dr. van Zuilen at least two weeks prior to the elective to discuss their education goals so their schedule can be tailored accordingly. Students who would like to gain research experience should contact us even earlier as availability may be limited. Students will work primarily with their assigned faculty mentor, but are expected to meet with Dr. van Zuilen weekly to review their progress.

**Student Evaluation and Grading:**
Students will receive pass/fail grades for this rotation based on the following criteria:
- Attendance
- Professionalism
- Participation in patient assessment and management
- Quality completion of assignments given by the clerkship directors, attending faculty and/or geriatric fellow

Revised January 2015
ADVANCED GERIATRICS: MIAMI JEWISH HEALTH SYSTEMS

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<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Brian Kiedrowski, M.D. and Jenny Drice, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-795-8494</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:BKiedrowski@mjhha.org">BKiedrowski@mjhha.org</a> and <a href="mailto:JDrice@med.miami.edu">JDrice@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jackie Green; 305-795-8494</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Integrated Medicine Clerkship or Geriatrics Clerkship</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<tr>
<td>INTERVIEWING TIME</td>
<td>1 day (2wks), with prior approval</td>
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<td>TYPE:</td>
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Please call Medical Staff office (305-795-8494) in advance to let them know you are scheduled.

Overview:
The medical student will spend two weeks at the Miami Jewish Health Systems and assume responsibility for the care of older patients under the supervision of a faculty member and members of the interdisciplinary care team. The goal is to teach, model and assess the knowledge, skills, and attitudes needed by medical students to complete a comprehensive geriatrics assessment. Clinical activities will take place in multiple chronic care venues available at the Miami Jewish Health Systems, which include a nursing home, an assisted living facility, outpatient clinics, and an inpatient hospital.

Course Design:
Clinical activities take place weekdays between 9:00 am – 4:00 pm on average. Clinical activities are complemented by mandatory small group sessions including journal club, independent self-learning, assigned readings.

Goals:
- Promote students’ knowledge of geriatric assessment and longitudinal care in multiple venues for care of the elderly
- Give students experience as first responders for acute changes in long-term care patients
- Improve ability of students to competently administer, score and interpret selected geriatric assessment tools (e.g., mini-mental state exam, confusion assessment method, timed up-and-go, and geriatric depression scale)
- Improve the ability of students to recognize and assess common geriatric syndromes (e.g., dementia, delirium, falls, pressure ulcers, and polypharmacy)
- Have students apply the results of geriatric assessment to develop an integrated problem list and care plan
- Enhance students’ understanding of the common ethical issues in geriatrics with emphasis on frail dependent elderly in long-term care environments
- Involve students in the interdisciplinary approach to care planning

Objectives:
- By the end of the rotation, a student will be able to be able to competently administer, score and interpret selected geriatric assessment tools.
• The student will be able to develop an integrated care plan based upon a geriatric assessment.
• The student will be able to recognize and assess common geriatric syndromes, formulate a differential diagnosis and management plan.
• The student will understand the challenges related to transitions in care in the post-acute setting.

**Location:** Miami Jewish Health Systems, Students should report to Douglas Gardens Hospital at 9am.

**Participating Faculty:**
Brian Kiedrowski, M.D., Jenny Drice, M.D., and Marcio Soares, M.D.

**Prerequisite:** Completion of M3 JFK Integrated Medicine Clerkship or Miami Geriatrics Clerkship

**Expectations:** Students are expected to become active members of the interdisciplinary team. They will attend morning rounds, closely follow assigned patients, and present to their attending and during interdisciplinary team meetings. The students are expected to be self-directed learners and identify learning issues pertaining to the care of their assigned patients and other patients whose care they may be involved in.

**Student Evaluation and Grading:** The student's final grade will consist of performance on the standard UMMSM clerkship student evaluation form based on their performance during the rotation and on attendance and participation.

Revised January 2015
HEMATOLOGY

<table>
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<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Mark Goodman M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6520</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mgoodman@med.miami.edu">mgoodman@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Vernkiesha Rechourse</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
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</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</table>

**IMPORTANT!**

Students should email Dr. Mark Goodman (mgoodman@med.miami.edu) a week prior to their rotation to confirm that you will be joining the rotation for the month and if any questions exist.

Students will in general work with the hematology consult fellow/attending on the month of their rotation. A few days prior to the rotation the student shall call 305-243-1000 (or E mail Dr Goodman) in order to determine whom the fellow is that month. The student should ask for the name and beeper of the JMH hematology consult fellow for the month of their rotation. It is expected he or she should contact and meet up with the hematology fellow by 9am on the first day their rotation.

**Once the rotation is complete you should again E mail Dr. Goodman the name of the attending hematologist whom supervised you so your grade sheet form will be sent to the proper person.

** All students will meet with Dr Goodman the first Thursday of their rotation for group case discussion and delivery of key reading materials. Depending on Dr Goodman’s availability additional discussion days may be scheduled. These discussions will take place in Dr Goodman’s office Sylvester 3400 between 2-3 pm Thursday. You should page/call Dr Goodman upon your arrival if he is not in the office (pager 305-272-6619, cell phone 305-726-8620). This will begin 5/2009.

**Goals / Objectives:**
The objective of this clinical hematology program is to allow students to obtain experience in the diagnosis and management of hematological disease, in the performance of marrow aspiration and in the study of morphology of peripheral blood cells and bone marrow.

**Overview:**
Students are expected to participate in the workup of hematology consults, hematology conferences, rounds, and seminars. Direct contact during teaching rounds between the students and faculty provides ongoing evaluation of the progress and comprehension.

**Participating Faculty:**
Unless otherwise requested or specified, medical students will be assigned to the hematology consult service and be evaluated by the attending that supervising the month. It is best to call 305-243-1000 (beeper operator) a few days prior to beginning the rotation and ask to speak to the JMH consult fellow of the month.
Course Design / Expectations:
- Consults will be assigned to the student by the fellow. It is expected that each student will present a minimal 3 patients (assuming adequate consults requested that month) to the consult attending/fellow during his or her rotation.
- All students must attend the Wednesday Morning conferences held form 8-10 am at Sylvester first floor conference center (8-9 case presentation; 9-10 didactic conference)
- All students will attend Attending rounds which will occur minimally 3X week.
- All students will be expected to review Bone marrows and peripheral blood smears in conjunction with the fellow and hematopathologists. This will generally occur 3X/week.
- It is encouraged but not mandatory that the student presents a case or help prepare (literature review etc) an “interesting” case in conjunction with the fellow for the hematology case presentation held on Wednesday morning at 8AM at Sylvester conference room first floor.
- Depending on the availability of Dr Goodman or other alternative faculty, all students will meet with Dr Goodman the first Thursday of their rotation at 2 pm in his office (Sylvester 3400) from 2 -3 pm. Each student should be able to present one case. Dr Goodman will discuss the case and make available key reading information. This will tentatively begin in 5/2009
- Each student will attend at least a one hour session per two week rotation in hematopathology in addition to the above routine review of BM and smears. Hematology cases will be presented to the students that illustrate key and/or interesting morphologic findings of common hematology issues. In some instances, active cases with interesting findings will be presented. Dr Goodman will attend some of these sessions to give the clinical perspective. This will tentatively begin in 5/2009

Opportunities for Additional Hematology Participation:
- Each student may request a minimal of a day per week with a hematology attending at his/her private clinic. You can either contact the hematology attending directly or discuss with Dr Goodman for an appropriate assignment. If you are at a private clinic you must make the hematology fellow aware of your alternative assignment.
- Bone marrow rotation: You may choose to spend 1 week of a 2-4 week rotation at the bone marrow transplant unit at JMH. This will be limited to only two students in a given week. You may contact Dr Goodman if you are interested in this assignment.

Prerequisite:
None

Reviewed January 2015
HEPATOLOGY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 834</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Paul Martin, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2147</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:JLaPorta@med.miami.edu">JLaPorta@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jennifer LaPorta</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of Internal Medicine Clerkship</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year, except blocks 1A &amp; 5B</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

**Overview:**
The student will be exposed to a wide spectrum of liver and biliary disease. The pathogenesis and development of a practical clinical approach to the recognition and differential diagnosis of these disorders will be emphasized.

**Course Design:**
The student may opt for a predominantly outpatient or inpatient exposure or a combination of both. In the outpatient rotation the student will be assigned to the clinic fellow and will attend daily outpatient clinic at UMHC with different faculty members. In the inpatient rotation the student will round with the inpatient fellow and attending on the patients admitted to the Hepatology service at UMH and inpatient Hepatology consults. In a 4-week rotation the student may opt to spend 2 weeks in the outpatient and 2 weeks in the inpatient setting or all 4 weeks in one of them. There are daily morning conferences at 8:00 a.m., weekly liver biopsy / tumor conferences and literature review sessions.

**Goals:**
The senior elective in Hepatology is designed to provide medical students with basic knowledge in the clinical approach to the diagnosis and treatment of liver diseases.

**Objectives:**
After the completion of their elective in Hepatology, the students are expected to be familiar with the signs and symptoms of common liver diseases and with the basic approaches and tools used for their diagnosis and treatment.

**Location:**
UMHC (outpatient), UMH-MSCC (outpatient) UMH (inpatient)

**Participating Faculty:**
Paul Martin, Eugene R. Schiff, Lennox Jeffers, Christopher O’Brien, Cynthia Levy, Adam Peyton, Kalyan Bhamidimarri, Dr. Maria Hernandez

**Prerequisite:**
Completion of the Internal Medicine Clerkship
**Expectations:**
The students are expected to be motivated to learn about liver disease and to actively participate in all of the clinical activities of the Division.

**Student Evaluation and Grading:**
The evaluation is based on the impression of the faculty from the student’s motivation to learn, fund of knowledge, and level of participation in the academic and clinical activity of the Division. There will be an informal evaluation by a faculty member at the end of the rotation.

**Note:**
Students should report to the Center For Liver Diseases office at JMT, 1500 N.W. 12 Ave., Suite 1101-E at 7:45am on the first Monday of their rotation and have with them a card with their name, photo and dates of rotation. They should present themselves to Jennifer LaPorta or Cristina Flores who will provide a Hepatology orientation manual and direct them to the morning conference.

Reviewed January 2015
INFECTION DISEASE CONSULTATION SERVICE
AT MOUNT SINAI MEDICAL CENTER

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 835</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Claudio Tuda, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-674-2766</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:sharonblackwell42@gmail.com">sharonblackwell42@gmail.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Sharon Blackwell [Mt. Sinai Med. Ctr. 4300 Alton Rd, Greene Pavilion, # 450, Miami Beach]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes (arranged directly through Mt. Sinai)</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
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</tbody>
</table>

Please contact a minimum of two weeks before the start of the rotation to complete hospital specific orientation requirements. Please contact Italia Smith in the Mt. Sinai Medical Education Office at ismith@msmc.org.

Goals:
The goal of the elective is to provide the opportunity to increase understanding of the broad range of Infectious Disease through the experience of serving as a consultant.

Course Design:
Students work closely with the fellow and Attending in Infectious Disease at Mt. Sinai Medical Center. The student is expected to see patients as a consultant. Cases are presented to Attending physician and discussed in detail. There are special microbiology laboratory conferences and a weekly Infectious Disease clinical conference.

Location:
Mt. Sinai Medical Center

Prerequisite:
Completion of all core clerkships

Student Evaluation and Grading:
Evaluation of students is done by the fellows and Attendings on the consultation service. The coordinator of the electives also evaluates students at various rounds. The process of teaching and evaluations is done daily at the various hospitals on consultation rounds.

Revised January 2014
**INFECTION DISEASE CONSULTATION SERVICE**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Susanne Doblecki-Lewis, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4598 or 305-243-4037</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ASaint-Jean@med.miami.edu">ASaint-Jean@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Angie Saint-Jean</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

**NOTE:** ANY schedule changes involving the Infectious Disease Consultation Service rotations, must be authorized by Olga Paredes (see above for contact information) before your schedule can be officially changed.

**Overview:**
This elective provides a learning experience in the clinical discipline of Infectious Diseases, a discipline that stresses accurate definition of disease and establishment of an etiologic diagnosis through clinical assessment and microbiologic testing. Treatment can be rationally selected when the etiologic diagnosis is correctly identified. Appropriate initiation and discontinuation of antimicrobials are key activities on the ID service. Performing these steps under guidance of a physician with ID specialty training provides the essence of this clinical experience. This elective provides a unique opportunity to see a broad range of infectious diseases.

**Course Design:**
Students are assigned to the ID Consultation Service at Jackson Memorial Hospital (JMH). Students work closely with the ID Fellow who is responsible for the daily operation of the specialty service. An attending physician supervises the entire ID consultation service. During assignments at JMH, members of the consultation service participate in rounds with faculty for an estimated 18 hours per week. Students perform the initial evaluation of assigned patients, review the medical record and microbiology tests, provide a differential, formulate a potential treatment plan, and report their findings and assessment to the fellow and then the attending. Students are expected to perform a minimum of 12 ID inpatient consultations during a four-week rotation. Students will be asked on occasion to do research and prepare short informal presentations on topics related to their patients.

Microbiologists at each facility play an integral role in ID training and are available for consultation. There is a major interaction between the microbiologists in the Clinical Laboratory at JMH and the ID Division, and team members are expected to go to the laboratory to review microbiologic findings on their patients. Likewise, imaging studies are reviewed with the radiologists. There are several Infectious Disease conferences weekly that the student is expected to attend.

**Location:** JMH

**Prerequisite:** Completion of all core clerkships
Student Evaluation and Grading:
The fellows and attendings on the consultation service evaluate the students. Students will be evaluated on the quality of their patient evaluations and case presentations, their interest and participation in rounds, their self-learning activities, and the quality of their assigned scholarly presentations during rounds. The process of teaching and evaluation is done daily on consultation rounds.

Revised January 2014
Latin America Externship Elective

Course Code: MDR 838
Clerkship Director: J. Donald Temple, M.D.
Telephone: 305-243-6826
Email: ocata@med.miami.edu
Contact: Olivia Cata [Jackson Medical Towers, East Bldg., Rm 1027 R-36]
You must get approval and make arrangements 3-6 months in advance

Length of Elective: 4 weeks
Prerequisite: Completion of Core Clerkships
Number of Students: 4
Available: All year
U.S. Visiting Students: None
Interviewing Time: None
Type: Clinical

Overview / Requirements:
Electives in various Latin American countries can be arranged on an individual basis. Areas of special interest will vary but most deal with tropical hygiene and medicine in underdeveloped areas. This program is a reciprocal part of our Latin American Training Program and as such entails certain stipulations.

- All students will be screened by the Office of Student Affairs and recommended in writing.
- Students must speak Portuguese if they are planning to travel to Brazil. All other countries in Latin America require conversational Spanish skills.
- Students will be responsible for their travel, room and board, and any other incidental expense.
- A maximum of 10 students will be allowed to travel to Latin America.
- Length of externship is 4-6 weeks. Students will receive credit for four weeks only.

Participation in medical clerkships in the areas of Tropical Medicine, Internal Medicine, Pediatrics, Surgery and Family Medicine can be arranged in the following countries: Brazil, Colombia, Costa Rica, Ecuador, Mexico, and Peru.

Important! You are required to complete the “Application for International Study” packet and return to Student Affairs RMSB #2011 BEFORE leaving.

Reviewed January 2015
MEDICAL INTENSIVE CARE UNIT (JMH)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 839</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Daniel Kett, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5215  Option 2</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Cary Menendez [JMH – Central Room 600D]</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:cmenendez@med.miami.edu">cmenendez@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>SIGN IN SHEET:</td>
<td>Students must sign in upon arrival with coordinator</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>None</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

**Students must see coordinator to sign in prior to rounding with attending first day.**

**Overview:**
The Medical Intensive Care Unit is an eighteen bed unit that provides care for critically ill medical patients.

**Course Design:**
Students will gain an understanding of caring for patients with acute and chronic respiratory failure, various types of shock, cardiogenic pulmonary edema, the acute respiratory distress syndrome, malignant hypertension, acute myocardial infarction and various complications of multi-organ system failure. Emphasis will be placed on the indications for admission to and discharge from the MICU, invasive hemodynamic monitoring and mechanical ventilatory support.

Education is provided during morning work rounds with the attending, core lectures on MICU related topics, biweekly critical care journal club and informal student and housestaff case presentations.

**Goals/Objectives:**
The goal is to provide an understanding of Critical Care Medicine. There is special emphasis on understanding invasive procedures including their indications and contraindications.

**Location:** JMH – 100%

**Participating Faculty:**
Faculty from the Department of Medicine, Pulmonary, Critical Care

**Prerequisite:** Completion of all core clerkships

**Expectations:**
Students perform an integral member of the MICU team, providing primary care to patients. The students will work directly with a senior medical resident, and be closely supervised by the pulmonary critical care fellow and attending. On nights the senior resident is on call, the student is expected to be on call with the resident until the early evening, generally assisting with the admission of at least one patient. Daily rounds with the entire MICU team begin at 8:00 A.M.
Student evaluations and grading:
During the rotation, each student is given direct feedback related to their performance. The course evaluation is based on student’s performance related to patients care, case presentation and academic activities.

Note:
No backpacks or personal belongings are allowed in the unit. Students will have a locker available in the On-Call room. The student must provide a lock and empty contents of the locker upon completion of rotation. No food or beverages in unit. Scrubs or labcoat with proper badge identification must be worn at all times.

Revised January 2015
# MEDICAL INTENSIVE CARE UNIT (VA)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Andrew A. Quartin, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-575-3223 (Direct Line for Dr. Quartin)</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Cary Menendez [305-585-5215 Option 2]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cmenendez@med.miami.edu">cmenendez@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>None</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
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</tr>
</tbody>
</table>

**Overview:**
By spending time on Attending rounds in the morning and check-out rounds in the afternoon with the housestaff, students will increase their appreciation of the problems of providing care for patients with acute and chronic respiratory failure, the various types of shock, cardiogenic pulmonary edema, the adult respiratory distress syndrome, malignant hypertension, acute myocardial infarction and various complications of multi-organ system failure.

**Course Design:**
Students assist in the diagnostic therapeutic management of critically ill patients and in performing various procedures under careful supervision. They are introduced to the various types of mechanical ventilators and the indications for their use, and provided with an increased understanding hemodynamic and respiratory monitoring.

**Goals/Objectives:**
The goal is to provide an understanding of Critical Care Medicine. There is special emphasis on understanding invasive procedures including their indications and contraindications.

**Location:** VAMC (100%)

**Participating Faculty:** Dr. Andrew Quartin and Dr. Roland Schein

**Prerequisite:** Completion of all core clerkships

**Expectations:**
The student participates on rounds 5 days per week and is expected to do some night call.

**Student evaluations and grading:**
Direct feedback is given to each student and evaluation is based on performance and discussion during presentations of cases as well as the discussions of the cases during supervised clinical care of patients. (Report at 8:00 a.m.)

Reviewed January 2015
MED-PEDS PRIMARY CARE/TRANSITIONAL CARE ELECTIVE  
(Listed under Medicine, Pediatrics, and Med-Peds)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1013</th>
</tr>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr. Abiona Redwood (effective Sept 1 – Dr. Eyssallenne until then)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-7476</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ARedwood@med.miami.edu">ARedwood@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Javier Salazar; <a href="mailto:JSalazar@med.miami.edu">JSalazar@med.miami.edu</a>; 305-585-5954</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine and Pediatrics Core Clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day / 2 weeks OR 2 days / 4 weeks, with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

NOTE: ANY schedule changes must be authorized by Dr. Patel or the Med/Peds Residency Coordinator before your schedule can be officially changed.

Overview:
Combined Internal Medicine and Pediatrics is a unique specialty that trains physicians in the care of patients of all ages. The elective aims to give students exposure to Med/Peds in an urban primary care practice setting. Students will see routine care of newborns, infants, children, adolescents and adults, as well as care of patients with complex pediatric diseases as they transition into adulthood.

Course Design:
The rotation will comprise of the following experiences:

1. **Med/Peds Primary Care Practice** - Students will spend a majority of their time with Med/Peds faculty and residents seeing and evaluating patients in the primary care practice. This will include patients that are being transitioned from pediatrics to adult care.

2. **Med/Peds and Categorical Noon Conference** - Students will attend daily noon conference, including Monday and Thursday Med/Peds noon conference, Tuesday Pediatric Grand Rounds, Wednesday Internal Medicine Grand Rounds. The student will give a presentation at the last Med/Peds noon conference of his/her rotation.

3. **Transitional Care Online Modules** - Students will be given time for “self study” for online modules that discuss transitional care.

4. **Transitional Care Meetings** - Students will have exposure to meetings in various departments to discuss transition of their complex pediatric patients.

5. **Transitional Care Clinics** - Students will have exposure to adolescent/ transitional care patients with complex pediatric diseases. *depends on availability*
Sample Weekly Schedule

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>Med/Peds Faculty Clinic</td>
<td>Med/Ped Faculty Clinic</td>
<td>Med/Ped Faculty Clinic</td>
<td>Self Study/Lecture preparation</td>
<td>Peds Staff Conference</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Med/Ped Faculty Clinic</td>
</tr>
<tr>
<td>Noon</td>
<td>Med/Peds Conf</td>
<td>Peds Grand Rounds</td>
<td>Internal Med Grand Rounds</td>
<td>Med/Peds Conf</td>
<td>IM or Peds Noon Conf</td>
</tr>
<tr>
<td>PM</td>
<td>Med/Ped Faculty Clinic</td>
<td>Self Study or Transitional Care Meeting</td>
<td>Med/Ped Resident Clinic</td>
<td>Self Study or Transitional Care Meeting</td>
<td>Med/Ped Resident Clinic</td>
</tr>
</tbody>
</table>

**Goals:**
1. The students will receive exposure to the Med/Peds specialty and the unique opportunities the career can provide.
2. The student will receive broad clinical training in the care of adult and pediatric outpatients in a major urban setting.
3. The student will receive exposure and didactic training in transitional care of the complex pediatric patient.

**Objectives:**
1. The student will learn and be able to apply age/gender appropriate screening, immunizations, and anticipatory guidance for the following populations:
   - Newborn
   - Infant/Toddler
   - School Aged Child
   - Adolescent
   - Adult
2. The student will be able to diagnosis and provide intial management of the following primary care problems:
   - Gastroesophageal Reflux
   - Allergic Rhinitis
   - Asthma/COPD
   - Obesity
   - HTN
   - Diabetes Mellitus
   - Hyperlipidemia
   - Low Back Pain
3. The student will know the following with regard to transitional care:
   - The definition of healthcare transition
   - The importance of providers to understand the specific issues regarding healthcare transition
   - Specific tools and resources they can utilize to help youth and their families develop a long-term transition plan
   - Specific strategies that can be used with young patients to empower them to be more responsible for their own healthcare.
   - The importance of multispecialty (pediatrics, internal medicine, subspecialists) coordination in the transition of healthcare from pediatric to adult care.
Location:
- Primary Location: Jackson Memorial Hospital Ambulatory Care Center Med Peds Primary Care Practice (ACC West 5A)
- Students may be asked to attend meetings/conferences in other parts of ACC, Jackson Memorial Hospital or University of Miami Hospital and/or Clinics.

Participating Faculty:
- Med Peds Faculty and Faculty from Division of Internal Medicine and Division of Pediatrics

Prerequisite:
- Completion of both Internal Medicine and Pediatric Core Clerkships

Expectations:
- The student is expected to participate in all activities (primary care clinic, transitional care meetings, self-study modules, oral presentations, noon conferences) in the course curriculum. They are expected to be on time, and to give appropriate notice to clerkship director for all absences or tardiness.
- Students are expected to follow the codes of professionalism as mandated by the School of Medicine.
- Progress notes on patients that are evaluated by the student are to be completed by the end of the same day the patient was seen.
- Students are to complete the on-line transitional care modules by the end of the rotation.

References
Online Modules/Training:
- Florida Health and Transition Services Education and Training for Health Care Professionals- http://www.floridahats.org/?page_id=2206

Suggested Readings:

Student Evaluation and Grading:
- The medical student will receive a written evaluation at the end of the month based on the six ACGME core competencies. This will be reviewed with the student by the faculty evaluator.
- The student will complete an evaluation of the overall rotation and of the faculty with whom they worked.
- Grading will be given as pass/fail.

Revised January 2015
NEPHROLOGY

| COURSE CODE: | MDR 842 |
| CLERKSHIP DIRECTOR: | Dollie Green, M.D. |
| TELEPHONE: | 305-243-6251 |
| CONTACT: | Dollie Green, M.D. |
| LENGTH OF ELECTIVE: | 4 |
| PREREQUISITE: | None |
| NUMBER OF STUDENTS: | 6 |
| AVAILABLE: | All Year |
| U.S. VISITING STUDENTS: | Yes |
| INTERVIEWING TIME: | 2 days (4wks), with prior approval |
| TYPE: | Clinical |

Overview:
The clinical and teaching activities focus on the provision of consultative and direct medical care for patients with renal disease, hypertension, disorders of water, electrolyte and acid-base balance, and related metabolic and immunologic disease. Contemporary technologies used in diagnosis and treatment include renal biopsy, acute and chronic hemodialysis, peritoneal-dialysis, renal transplantation, plasmapheresis, evaluation of nuclear flow studies, and interventional nephrology.

Course Design:
Students are assigned to a team (consisting of 2 students, 2 house officers, 1 fellow and a faculty Attending) at JMH (General Nephrology or Transplantation team). Students work closely with the Fellow who assigns patients (new consults) for whom they are expected to write up case histories and to formulate a reasonable differential diagnosis and therapeutic plans, which they present to the attending physician. Attending rounds are conducted for 2-4 hours daily.

Goals/Objectives:
Students will be exposed to and participate in the care of patients with renal disorders.

Location: JMH (100%)

Prerequisite: None

Expectations:
Students are expected to attend a formal conference of the division; journal club, nephrology grand rounds, clinical nephrology conference. Student may participate selectively in out-patient clinics (JMH and VAMC.) The generally recommend text is Primer in Renal Diseases. There is an open book (not graded) test that covers topics of importance. Answers are discussed in 2 workshops with Dr. Green.

Student evaluations and grading:
The Fellows and Attendings evaluate students. Feedback is informal and readily available. Students are required to write a 5-10 page typed summary on a topic of their choice having to do with Nephrology.

Reviewed January 2015
# ONCOLOGY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 859</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Pasquale W. Benedetto, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6604</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:pbenedet@med.miami.edu">pbenedet@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Kim Parish  [SCCC-3rd Floor #3310 D8-4]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 Weeks</td>
</tr>
<tr>
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</tr>
<tr>
<td>TYPE:</td>
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</tbody>
</table>

### Overview:
The Division of Hematology/Oncology is responsible for the diagnosis and treatment of benign hematology and neoplastic diseases at the three teaching hospitals: Jackson Memorial (JMH), University of Miami Hospitals and Clinics (UMHC), and University of Miami (UMH). The Department provides consultative services at the UMH, inpatient services and outpatient clinics at UMHC and both consultative and inpatient ward services at JMH. Only private outpatients are seen at UMHC.

### Course Design:
The four week clerkship should provide a basic knowledge of oncologic disease including natural history of prevalent tumors (lung, breast cancer), diagnostic work-up, treatment options, and areas of treatment controversy. The student should become familiar with common drug therapies, treatment of various oncologic emergencies (i.e., cord compressions, CNS disease, SVC syndrome, etc) and mechanisms of action and toxicities of chemotherapeutic agents.

For those students wishing to pursue a laboratory-based project, the possibility of working with one of the basic scientists exists. Areas of study include mechanisms of drug resistance, pain management, DNA repair processes, glutathione metabolism, anthracycline chemistry, retrovirus immunology, cell surface chemistry, mechanisms of apoptosis and mechanisms of the regulation of tumor cell growth.

The students can choose one of three rotation schedules:
1. Oncology consults/clinic at JMH with fellow and monthly attending. The student will see routine consults and present the cases to the attending and fellow outlining diagnostic and/or therapeutic options. In addition two half days per week will be spent in the outpatient clinics at JMH and 3-5 half days in the private outpatient clinics in a one-to-one experience with an attending physician.
2. Clinical clerkship at JMH management ward. The student will attend the daily ward attending teaching rounds on WW 12.
3. One-on-one clinical rotations with faculty member.

### Goals/Objectives:
Students will be exposed to and participate in the care of patients with neoplastic disorders.

### Location:
Jackson Memorial (JMH), University of Miami Hospitals and Clinics (UMHC), and/or University of Miami (UMH)
Prerequisite: None

Expectations:
Students will also attend the Hemo-Onc Grand Rounds on Wednesdays, Fellows’ Core Curriculum Conference Tuesday and Thursday mornings, monthly Journal Club and Friday Multi-disciplinary Tumor Board.

Revised March 2015
PULMONARY

COURSE CODE: MDR 843
CLERKSHIP DIRECTOR: Horst J. Baier, M.D.
TELEPHONE: 305-243-7888
CONTACT: Cary Menendez, [JMH-C600D] 305-585-5215 Option 2 cmenendez@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Internal Medicine
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S. VISITING STUDENTS: No
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: Call two weeks prior to the start of rotation to confirm and receive important information.

Overview/Course Design:
This 4-week elective is intended to expose the senior medical student to a spectrum of experiences in pulmonary disease. The student will be assigned to the pulmonary consultation services at either Jackson Memorial Hospital or University of Miami Hospital.

Course Design:
The student will be assigned to the pulmonary consultation services at either the Jackson Memorial Hospital or University of Miami Hospital. These services consist of a University of Miami Pulmonary faculty member and a pulmonary fellow. The student will be responsible for seeing patients in consultation and follow-up and discussing them with the fellows and attending on rounds. The student will watch bronchoscopy and learn its indications and findings. The student will be given exposure to Pulmonary Function Testing and learn how to interpret them. The student may choose to have their own pulmonary test performed during the rotation as well. In order to gain a broader understanding of pulmonary medicine, the student will also participate in an outpatient pulmonary clinic at the VA once half day session per week. All students will meet with Dr. Scialla, the rotation coordinator, weekly, and they are expected to attend conferences.

Goals:
A. Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiology examinations, and cognitive skills as they relate to the diagnosis and treatment of pulmonary diseases.
B. Familiarize the medical student with pulmonary bronchoscopy (general indications for the procedure, major risks, observation of actual endoscopy being performed)
   1. Understand the general indications for the procedure
   2. Major risks of the procedure
   3. Observation of the actual bronchoscopy being performed, especially if they were involved with the evaluation of the patient
C. Reinforce a critical approach to the medical literature.

Objectives
C. By the end of this elective, the medical student will be expected to be familiar with the basic evaluation and management of the following:
   A. Common respiratory symptoms and signs of: hemoptysis, cough, chest pain, and dyspnea.
B. Acute and chronic obstructive lung disease including asthma, bronchitis, bronchiectasis, emphysema, and bronchiolitis.
C. Subacute and chronic interstitial lung disease.
D. Pulmonary vascular disease including pulmonary embolism and other forms of primary and secondary pulmonary hypertension.
E. Neuromuscular diseases of the respiratory systems
F. Nodules and masses in the lung.
G. Sleep disorders.
H. Infectious diseases involving the respiratory systems.
I. Post-operative pulmonary complications including respiratory failure, hypoxemia, pleural effusion, and atelectasis.
J. Recognize the indications for diagnostic procedures including bronchoscopy, transthoracic needle biopsy, V/Q scans, pulmonary angiography, CT scans and standard chest roentgenograms.
K. Develop facility in the interpretation of radiographic procedures of all types.

**Location:** JMH consult services (90%) or UMH consult services (90%). VA outpatient pulmonary clinic (10%)  

**Participating faculty**  
Faculty from the Division of Pulmonary

**Prerequisite:** Completion of Medicine core clerkship

**Expectations:**
The student will be expected to participate in all activities (consultations, procedures, rounds, clinics, conferences) and be on time. The rotation coordinator needs to be informed of all absences. Professionalism as mandated by the School of Medicine is expected.

**Student evaluations and grading:**
Evaluation and assessment is made by the attending on service and evaluation includes attendance, participation, quality of written work-ups, quality of oral presentation and interaction with others. Feedback to students is given on a daily, but informal basis.

Reviewed January 2015
Special Immunology

Course Code: MDR 845
Clerkship Director: Luis A. Espinoza, M.D.
Telephone: 305-243-2398
Email: lespinoza@med.miami.edu
Contact: Dr. Espinoza
Length of Elective: 2 / 4 weeks
Prerequisite: None
Number of Students: 2
Available: All year
U.S. Visiting Students: Yes
Interviewing Time: 1 day (2wks) OR 2 days (4wks), with prior approval
Type: Clinical

Overview/Course Design:
Students, under the supervision of a Special Immunology Attending, will act as Internist developing their skills of diagnosis and management of patients with human immunodeficiency virus (HIV) infection at the dedicated outpatient ambulatory facility. The spectrum of patients includes those with predominantly advanced HIV disease and complications to evaluation and screening of patients with mildly symptomatic or asymptomatic HIV disease. Special emphasis is placed on Infectious Disease, Primary Care, and General Internal Medicine. In addition, particular needs in the areas of psychiatry, Dermatology and Ophthalmology related to the general internist will be covered.

Goals/Objectives:
Students will be exposed to and participate in the ambulatory care of patients with human immunodeficiency virus (HIV) disease.

Location: Jackson Memorial Hospital (100%)

Prerequisite: None

Expectations:
Students are assigned to a schedule with the faculty supervising the outpatient clinic. Working hours are from 8am to 5pm, Monday to Friday. No student will work past 5:00 p.m. or on week-ends.

Revised January 2015
STUDENT HEALTH CLINIC

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Howard Anapol, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-284-5921</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:tmodest@miami.edu">tmodest@miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Teesha Modest; 305-284-5195</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>Blocks 3B, 4A/B, 5A/B, 6A, 8A/B, 9A, 10A/B, 11A/B</td>
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<td>U.S VISITING STUDENTS:</td>
<td>NO</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
</tr>
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<td>TYPE:</td>
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</tbody>
</table>

Overview:
The Student Health Service provides primary care services to UM undergraduate and graduate students. Students are seen for acute illnesses and injuries, and are followed for chronic medical problems. Specialty care services include orthopaedics, women's health, and allergy clinics. Routine lab tests and X-rays are performed on site.

Course Design:
Medical students will work under the supervision of the Department of Medicine faculty and other Health Center staff, and will provide direct patient care and order and interpret routine lab tests and x-rays.

Common problems seen include:
- Acute respiratory, gastrointestinal, and urinary problems and infections.
- Common chronic medical illnesses including asthma, hypertension, and diabetes.
- Orthopaedic injuries and minor trauma, including lacerations.
- Routine gynecological care, including pap smears and contraception counseling.
- Immunizations, allergy injections, and travel medicine.

This rotation is especially helpful for students considering primary care careers, and those anticipating working in urgent care settings. Important factors include – interest, ability to relate to patients and staff members and willingness to learn.

Goals/Objectives:
Students will be exposed to and participate in the ambulatory care of patients with medical conditions.

Location: UM Student Health Service (Coral Gables campus) (100%)

Prerequisite: Completion of all core clerkships

Expectations: Daily attendance is expected. Hours are 8:30 a.m. to 5:00 p.m., Mon-Fri

Student evaluations and grading:
The student is evaluated on their professionalism, clinical skills, and participation. They are expected to master basic history taking and physical exam skills.

Revised January 2015
JMH WARD MEDICINE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 847</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Mark A. Gelbard, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5095 / -5215</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mgelbard@med.miami.edu">mgelbard@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Mark Gelbard, M.D. [JMH Central 600A] Isabel Felipe; 305-585-5095; <a href="mailto:ifelipe@med.miami.edu">ifelipe@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>NUMBER OF STUDENTS:</td>
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</table>

NO CHANGES / NO ADD/DROPS ARE ALLOWED AFTER May 15, 2015.

ABSOLUTELY NO TIME OFF IS ALLOWED DURING THE ROTATION FOR ANY REASON. Time off for interviews, taking USMLE Step 2, attending conferences or any other event is NOT allowed. Please plan accordingly and do not enroll if interviewing/meetings/events are anticipated. The Sub-Intern is a key member of the medical team and is expected to be present throughout the month, as there is no one else available to fulfill their responsibilities. You are expected to work all weekends and holidays that your resident is working (including Thanksgiving).

Any and all scheduling issues (ie, family events, emergencies, etc.) need to be brought to the attention of the Sub-I Director (Dr. Gelbard) as soon as the student knows about the conflict. If any switches need to be made for unavoidable scheduling issues, it must be an equal change, meaning the sub-intern is required to find a replacement for themselves for the entire rotation.

Overview/Course Design:
Two senior students will be paired, and together, will carry out all the duties and responsibilities of an intern, commensurate with their capabilities. The pair will function as an “acting intern” and will have an increased level of responsibility for direct patient care. There will be an opportunity to improve clinical and didactic skills in the diagnosis and treatment of a wide spectrum of medical disorders. They will be directly supervised by their second or third year medical resident and Attending Physician.

Students will be assigned to Jackson Memorial Hospital (JMH) medical teams – General Medicine, Special Immunology/Infectious Diseases, Cardiology, Hematology/Oncology, or Transplant Nephrology. Every effort will be made to pair students with their requested fellow student as well as with residents and attendings who have demonstrated excellence in student teaching and a high level of interest in education. Assignment will be made by the Chief Medical Residents with input from Dr. Gelbard. While students may indicate a preference, the final decision will be up to the course director.
Goals/Objectives: Students will participate in the inpatient care of patients with medical conditions and serve as an acting intern on the internal medicine ward team. They are expected to assume direct responsibility for patient care and to become increasingly proficient and competent as interpreters and managers.

Location: Jackson Memorial Hospital (100%)

Prerequisite: Completion of all core clerkships

Expectations: Sub-Interns will attend morning work rounds and daily attending rounds. They will attend interns' report on Wednesday morning and the intake conference, when it occurs. They are expected to attend conferences such as Medical Grand Rounds and are invited to the daily residents’ noon conference. They will also have separate rounds with Dr. Gelbard once per week for case presentations and discussions. They will be responsible for patient presentations and will participate in the regular call schedule. Students participating in the ward medicine rotation must understand that the scheduling of this rotation is complex, which is why the student who enrolls is obligated to the date and the rotation.

Student evaluations and grading: The supervising Medical Resident and the Attending physicians evaluate the student both in written form and by providing verbal feedback at the end of the rotation. Students will, in turn, evaluate their resident and attendings at the conclusion of the rotation.

<table>
<thead>
<tr>
<th>Rotation Dates</th>
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<tbody>
<tr>
<td>6/22/15 – 7/19/15</td>
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<tr>
<td>7/20/15 – 8/16/15</td>
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<tr>
<td>8/17/15 – 9/13/15</td>
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<td>9/14/15 – 10/11/15</td>
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<td>10/12/15 – 11/08/15</td>
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<td>11/09/15 – 12/06/15</td>
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</tbody>
</table>

**Must round over Thanksgiving**

| 12/07/15 – 1/03/16      |
| 1/04/16 – 1/31/16 (off sync) |
| 2/01/16 – 2/28/16 (off sync) |
| 2/29/16 – 3/27/16 (off sync) |
| 3/28/16 – 4/24/16 (off sync) |
| 4/25/16 – 5/22/16 (off sync) |
| 5/23/16 – 6/20/16 (off sync) |

Revised January 2015
UMH WARD MEDICINE

COURSE CODE: MDR 958
CLERKSHIP DIRECTOR: Rene Parraga-Montilla, M.D.
TELEPHONE: 305-243-1960
EMAIL: RParragaMontilla@med.miami.edu
CONTACT: Angelica Escalante; 305-243-2218; aescalan@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of Core Clerkships
NUMBER OF STUDENTS: 1
AVAILABLE: All year, EXCEPT block 7AB
U.S VISITING STUDENTS: No
INTERVIEWING TIME: None
TYPE: Clinical

Overview:
The primary objective of this rotation is to emphasize mastery of clinical core internal medicine competencies, to develop skills in inpatient management of common medical illnesses, and to prepare fourth year medical students for internship. This rotation will promote the expansion of the clinical knowledge base and emphasize the practice of evidence based internal medicine.

Course Design:
Subinterns are assigned to the University of Miami Hospital and assume primary responsibility for patient care under close supervision provided by an assigned attending hospitalist. The student will be assigned to the hospitalist service (Team C). They are afforded the unique opportunity of co-management with other specialties. In addition you will also be exposed medicine consultation.

Subinterns will participate in a series of workshops addressing important common clinical case scenarios. They will also attend hospital medicine grand rounds. They will participate in daily clinical activities such as handoffs and multi-disciplinary rounds. They will also take part in one night call and one weekend call (until 7:30 pm)/weekly.

Goals:
- Develop the knowledge base, skills and attitudes that are needed to master clinical core competencies of internal medicine; particularly common inpatient diagnoses, and the disciplines of hospital medicine, cardiovascular medicine, and gastroenterology.
- Promote the practice of evidence based medicine in order to improve quality of care and patient safety
- Review common clinical conditions with an emphasis on diagnosis and management

Objectives:
1. Gather information through relevant and focused history taking
2. Conduct directed and complete physical examinations
3. Order appropriate tests and to effectively interpret results
4. Engage in clinical reasoning, propose sensible differential diagnoses and formulate appropriate therapeutic recommendations
5. Document encounters efficiently and accurately
6. Effectively prioritize daily tasks for patient care
7. Anticipate patient needs and organize discharge planning
8. Ensure safe transitions of care
9. Demonstrate the understanding of the pathophysiology and in common medical diseases.
10. Understand the impact of cultural, psychosocial and environmental processes on disease manifestation
11. Review and apply current literature to emphasize the practice of evidence-based medicine
12. Effectively communicate with the patient, his/her caregiver and with other physicians and non-physician members of the healthcare system
13. Efficiently coordinate multidisciplinary care through appropriate utilization of consultative and ancillary services
14. Use information technology to access online medical information, review evidence from scientific studies and formulate appropriate management decisions
15. Understand the risks and benefits of a procedure and to learn how to obtain informed consent
16. Recognize the importance of quality improvement and promote patient safety
17. Maintain timely communication with primary care physicians, sub-specialists and consulting physicians
18. Commit to excellence and to personal/professional growth through self directed learning; to perform evaluation of one’s performance and develop plan for improvement

Location:
University of Miami Hospital Inpatient Service (100%)

Participating Faculty:
Faculty from the Department of Medicine’s Division of Hospital Medicine

Prerequisite:
Completion of Core Clerkships

Expectations:

Role and Responsibility of the Subintern:
- The subintern is an integral part of the medical team and works under the close supervision of an attending hospitalist. He/she participates in the following aspects of patient care:
  - Initial evaluation (admission note, on service note…)
  - Daily management (progress notes, handoffs…)
  - Coordination of care with other specialties and ancillary services
  - Final Disposition (off service note, discharge summary, outpatient follow up…)
- The subintern carries 3-5 patients.
- The subintern participates in night calls with the nocturnist from 4:30 PM to 9:30 PM, every fourth day. He/she also partakes in weekend calls from 7:30 AM to 5:30 PM
- The subintern admits 1-3 patients on a given call day.
- Pre-Round begins at 7:00 AM.
- Turn Over, from the Nocturnist, takes place at 7:30 AM.
- Attending Rounds starts from 8:00 AM and ends 12:00 PM.
- Work Rounds takes place from 1:00 PM until 4:00 PM.
- Sign Out occurs at 4:30 PM.
- The subintern participates in interactive weekly workshops conducted by an assigned faculty attending. These workshops are designed to review common inpatient clinical conditions and key core competencies.
- The subintern attends workshops and all others conferences as outlined in the conference calendar.

Conference Schedule:
During the rotation, the subintern is required to attend the following conferences:
- Hospital Medicine Grand Rounds at the University of Miami Hospital on the 2nd and 4th Thursday of the month.
- Department of Medicine Grand Rounds at Rosenstiel Medical Science Building every Wednesday at noon.
- Sub-internship Weekly Workshop and journal club every 2nd and 4th Friday at Noon at the University of Miami Hospital and 1st and 3rd Thursday at VA Medical Center.

**Readings:**
A set of prerequisite reading material is assigned on a weekly basis in preparation for the workshop.

**Student Evaluation and Grading:**
The supervising attending hospitalist will provide periodic verbal feedback to the subintern over the course of the rotation and will submit a written evaluation of the subintern at the end of the rotation.

The subintern will complete an evaluation of the supervising attending(s) and the rotation at the conclusion of the rotation. These evaluations will be anonymous.

Reinstated June 2015
## VAMC WARD MEDICINE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 961</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Devora C. Kahn MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-575-3160 / -3147</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:devora.kahn@va.gov">devora.kahn@va.gov</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Devora C. Kahn MD; <a href="mailto:devora.kahn@va.gov">devora.kahn@va.gov</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<tr>
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<td>NO – see below</td>
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<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

**NO CHANGES / NO ADD/DROPS ARE ALLOWED AFTER May 15, 2015.**

**ABSOLUTELY NO TIME OFF IS ALLOWED DURING THE ROTATION FOR ANY REASON.**

Time off for interviews, taking USMLE Step 2, attending conferences or any other event is NOT allowed. Please plan accordingly and do not enroll if interviewing/meetings/events are anticipated. The Sub-Intern is a key member of the medical team and is expected to be present throughout the month, as there is no one else available to fulfill their responsibilities. You are expected to work all weekends and holidays that your resident is working (including Thanksgiving).

Any and all scheduling issues (ie, family events, emergencies, etc.) need to be brought to the attention of the Sub-I Director (Dr. Kahn) as soon as the student knows about the conflict. If any switches need to be made for unavoidable scheduling issues, it must be an equal change, meaning the sub-intern is required to find a replacement for themselves for the entire rotation.

### Overview:
The objective of this rotation is to provide students in their fourth year of medical school training with hands on clinical experiences that are specifically designed to mirror their upcoming roles as interns in postgraduate training. The medical Sub-intern will master specific core competencies and basic principles of inpatient medical care.

### Design:
The sub-I will be a member of a medical ward team that consists of a Hospitalist attending, two residents, one intern and occasionally two third year clerks. The sub-intern will work specifically with one resident on the team who will directly oversee the sub-I and the care of his/her patients. Sub-interns will either be paired with another sub-intern to meet the equivalent of an intern or be coupled with an intern but will work independently of that intern. They will focus on delivery of inpatient care to general medical patients as well as collaborate with medical and surgical subspecialties.

They will attend daily attending rounds as well as participate in daily sign out/hand off rounds. Sub-Interns will attend daily noon conferences, weekly grand rounds, weekly interns report, and weekly sessions with sub-internship coordinators to review key inpatient topics as well as a sub-internship journal club.
**Goals:**
The goals of the rotation are to provide the Sub-Interns with the clinical skills and knowledge they will need for their future clinical training. With the guidance and oversight of the supervising attending and resident, the sub-I will be seen as the primary care giver by the patient and the hospital staff.

**Objectives:**
1. Describe the intricacies of the inpatient clinical care setting
2. Demonstrate being an effective member of a health care team
3. Demonstrate use of the electronic medical record
4. Demonstrate proficiency in history taking and performing the physical exam
5. Demonstrate proficiency in information gathering skills
6. Demonstrate proficiency in note writing and oral presentation skills
7. Demonstrate proficiency in basic procedural skills
8. Demonstrate acceptable communication skills with patients and families as well as other medical professionals and ancillary staff
9. Create differential diagnosis and appropriate management plans based on clinical reasoning and evidence based medicine
10. Coordinate multi/interdisciplinary care for patients including social work, case management, psychology, pastoral care, wound care, nutrition
11. Create plans of care for inpatient stay and transition to outpatient setting
12. Delineate and communicate appropriate hand offs/sign outs
13. Obtain informed consent and demonstrate ability to communicate risks, benefits, alternatives
14. Describe when subspecialty consultation should be sought and develop the communication skills to obtain the specific answers and help needed
15. Perform self directed learning, relevant patient care literature reviews and inculcate feedback into practice

**Location:**
Miami VA Medical Center (100%)

**Participating Faculty:**
Hospitalist Group and Medical Subspecialists

**Prerequisite:**
Completion of Core Clerkships

**Expectations:**
The sub-intern will be a functioning member of the team. He/she will be responsible for all orders, admission notes, daily progress notes, transfer notes and at times discharge summaries as well as daily written and oral hand-offs to the night covering staff. They are expected to initiate and call consults when indicated, follow up labs and radiology tests as well as other diagnostic modalities. It is expected that the Sun-Intern will be the primary communicator with the patients’ families.

The sub-intern is expected to participate in all team activities and to be on time. He/she will take call with his/her resident. This comes out to roughly every other day. There may be times when they admit consecutive days in order to have other days off. The volume of hospital admissions will determine the number of admissions per call. The total number of patients a sub-intern can carry is seven.

Work rounds will begin at 7 am after the Sub-I receives the hand-off from the night staff. Attending rounds are at 8am daily unless otherwise specified by the attending. Hand off/sign out rounds are daily at 6:30 pm, weekends and holidays at 6pm (you may be excused earlier if your are not on call that day and all the work is done but this must be cleared by the resident).
The sub-intern will attend all conferences delineated below. They will be expected to lead one journal club during the month long rotation which will occur weekly. They will also be expected to attend a weekly or every other week sub-internship conference during which key inpatient clinical topics will be reviewed. This time will also be used as a forum to allow the sub-interns to voice their issues, questions and concerns regarding the rotation, hospital system and the program.

Conference Schedule:
The following is a list of conferences that the sub-interns are expected to attend.

1. Daily noon conference at JMH
2. Internal Medicine Grand Rounds: Wednesdays at noon Rosenstiel Medical Science Building
3. Interns Report: Thursday 10am, Miami VA Medical Center
4. Sub-I weekly Journal Club and Key topic sessions: Thursdays 1:30 pm

Evaluations and Feedback:
The supervising Attending and Resident will provide verbal face to face feedback to the sub-I at the close of the second week and then again at the end of the rotation. The Attending and Resident will complete a written evaluation at the end of the rotation.

The sub-intern will complete written evaluations of the rotation, attending and resident at the conclusion of the rotation. Should any issues or questions arise during the rotation, the sub-I should address them to the Sub-I coordinator at any time.

<table>
<thead>
<tr>
<th>Rotation Dates</th>
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<tbody>
<tr>
<td>6/22/15 – 7/19/15</td>
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<tr>
<td>7/20/15 – 8/16/15</td>
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<td>8/17/15 – 9/13/15</td>
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<td>9/14/15 – 10/11/15</td>
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<td>10/12/15 – 11/18/15</td>
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<td>11/09/15 – 12/06/15</td>
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<tr>
<td><strong>Must round over Thanksgiving</strong></td>
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<td>12/07/15 – 1/03/16</td>
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<td>1/04/16 – 1/31/16 (off sync)</td>
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<td>2/01/16 – 2/28/16 (off sync)</td>
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<td>2/29/16 – 3/27/16 (off sync)</td>
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<td>3/28/16 – 4/24/16 (off sync)</td>
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<td>4/25/16 – 5/22/16 (off sync)</td>
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<td>5/23/16 – 6/20/16 (off sync)</td>
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Revised January 2015
JFK CARDIOLOGY CONSULT ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 967</th>
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</thead>
<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Robert Chait, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>Joseph Sollecito, 561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:BobChait@gmail.com">BobChait@gmail.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ROTATION:</td>
<td>2 / 4 weeks – 4 weeks is recommended</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and background checks that need to be done far in advance. There may be a costly fee for the background check.

Overview
This is an inpatient consult rotation is at JFK Medical Center, a tertiary care center in Palm Beach County. It is a very active cardiac center with invasive cardiology services, cardiac surgery, and electrophysiology services. Patients encountered reflect the rich, diverse nature of pathology present in the area with equal exposure to men and women of multiple ethnicities and socioeconomic backgrounds.

Possible disease states the student will encounter may include: coronary artery disease, acute coronary syndrome and its complications, congestive heart failure including systolic as well as diastolic dysfunctions, endo-, myo- and pericarditis, valvular heart disease, brady- and tachy-arrhythmias, cardiac conduction abnormalities, cardiac pacers and ICDs, peripheral vascular disease, hyperlipidemia, ischemic and non-ischemic cardiomyopathy, preoperative cardiac evaluation for cardiac and non-cardiac surgery for both elective and emergency procedures, and pulmonary embolism. The student will gain valuable insight into the indications, contraindications, and performance of commonly ordered cardiac tests. Cost-effective health issues are regularly addressed in this setting.

Course Design
Students will work directly with a Cardiology attending and the residents from the Regional Campus Internal Medicine Residency. The daily activities will consist of rounds on the floors of the hospital where they will be seeing new consults and rounding on established patients. Students work up patients and discuss the history and physical findings with the team, participate in daily consultation rounds with the attending cardiologists, and will be supervised by the faculty. Students attend and participate in the cardiology conference. The student will be encouraged to follow the patients through the continuum of inpatient care and will also have the chance to observe diagnostic as well as therapeutic cardiac catheterizations.

Location:
- JFK Medical Center, Atlantis, Florida (100%)

Participating Faculty
- Robert Chait, M.D.
- Steven Borzak, M.D.

Prerequisite
• Completion of all core clerkships

**Expectations**
The student will be responsible for the initial evaluation and daily documentation of patients in the inpatient setting, the student will be expected to search and review evidence to support the decision-making made on their patients. The student will be expected to fully participate in all conferences and rounds as outlined below.

The student will round Monday through Friday with the consult team. Mornings will be spent in a combination of rounding on existing patients, and in evaluation of new consults. Time will be available to review the literature, discuss with the patients with the supervising residents in preparation for Cardiology Teaching Rounds. In addition, the student will be required to attend Morning Report and Grand Rounds, as well as Noon Conference. The student may be asked to present patients at morning report and at the Cardiology teaching conference. In the afternoons, Monday through Friday, the student will attend Cardiology Teaching Rounds, and review and present patients on the service to the team. There will also be EKG reading sessions, Journal Club and Physical Diagnosis review in the afternoons.

**Conferences:**
- Morning Report: M, T, W, F: 8:30-9:30 AM
  - Morning Report includes biweekly Cardiology Morning Report
- Grand Rounds: Thursday, 7:30 AM
- Noon Conference: M-F, 12 noon
  - Noon Conference includes biweekly Cardiology Teaching rounds and weekly Professor’s Rounds.

**Hours:**
- M-F: 7:30-5:00 PM

**Student Evaluation and Grading**
The student will be evaluated by the Attending, along with input from the residents on the cardiology service. The evaluation will be on a Pass-Fail Basis, and will be based upon attendance and participation in all aspects of the elective, including medical knowledge, patient care, interpersonal and communication skills, professionalism, practice-based learning and improvement, and systems-based practice.

Reviewed January 2015
HOLY CROSS HOSPITAL CARDIOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 913 – ON HOLD 2015-2016</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Alex Llanos, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>954-351-7883</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:AlexLlanos@aol.com">AlexLlanos@aol.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ROTATION:</td>
<td>2 / 4 weeks – 4 weeks is recommended</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All Year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>No</td>
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<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
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</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview
This rotation includes consultative diagnosis, electrocardiography, and intensive medical and surgical cardiac care at Holy Cross Hospital and Clinics. Under the direct supervision of the attending cardiologist, students will have the opportunity to evaluate patients presenting with a full spectrum of cardiac complaints. The student will participate in consultation rounds with the attending cardiologists, in both the inpatient and outpatient settings, participate in the evaluation of noninvasive testing, and observe cardiac catheterization and cardiac surgery of their patients.

Course Description
The student will be responsible for the initial evaluation and daily documentation of patients in the inpatient setting, and will independently evaluate patients in the outpatient cardiology office, with an increasing level of responsibility for direct patient care as the elective progresses. Emphasis will be placed on the physical exam of the cardiac patient, the evaluation of common complaints, EKG interpretation and an introduction to echocardiography.

Expectations
The student will be responsible for the initial evaluation and daily documentation of patients in the inpatient setting, and will independently evaluate patients in the outpatient cardiology office. The student will be expected to search and review evidence to support the decision-making made on their patients. The student will also be expected to attend monthly cardiology conference and Grand Rounds.

Location: (100%) Holy Cross Hospital and Clinics
Jim Moran Heart and Vascular Center
4725 North Federal Highway
Fort Lauderdale, FL 33308

Participating Faculty:
- Alex Llanos, M.D – Clerkship Director
- Karan Munuswamy, M.D.
- Danny Weitz, M.D.
• Rishi Anand, M.D.
• Charley Russo, M.D.
• Josh Purow, M.D.
• Pablo Guzman, M.D.
• Vincent Font, M.D.
• Joshua Larned, M.D.

**Hours:**
8:30-6:00 pm Mon-Fri, rounding at HCH with Dr. Llanos one weekend.
*Hours will comply with the duty hour regulation of the ACGME.*

**Evaluation:**
Each student will be evaluated by the attending physician. Formative, ongoing feedback will also occur throughout the four-week rotation.

Reviewed January 2015
ADVANCED GERIATRICS: MORSE GERIATRIC CENTER PALM BEACH

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<tr>
<th>COURSE CODE:</th>
<th>MDR 805</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Karl Dhana, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-687-5768</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:KarlD@morselife.org">KarlD@morselife.org</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Integrated Medicine Clerkship or Geriatrics Clerkship</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2-3</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year, but must be approved by the Clerkship Director before they are considered final. Students should email to obtain prior approval.</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>None</td>
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<tr>
<td>INTERVIEWING TIME</td>
<td>1 day (2wks), with prior approval</td>
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<td>TYPE:</td>
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</table>

This meets the requirement for the two week course in geriatric medicine for Regional Medical Campus students. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance.

Overview:
The medical student will spend two weeks at the Morse Geriatric Center and assume responsibility for the care of older patients under the supervision of a board-certified geriatrician, geriatric medicine fellows, and members of the interdisciplinary care team. Our mission is to teach, model and assess the knowledge, skills, and attitudes needed by medical students to complete a comprehensive geriatrics assessment. Clinical activities will take place in multiple chronic care venues including the Morse Geriatric Center, a long term care facility; the Levine Rehabilitation Center, a subacute rehabilitation center; the Traditions of the Palm Beaches, an assisted living center; and the Geriatric Clinic.

Course Design:
Clinical activities take place weekdays between 7:30- 5:00 on average. Clinical activities are complemented by mandatory small group sessions including journal club, independent self-learning, and assigned readings.

Potential Sample Schedule:
Student A: Week 1: Short Term Stay/Outpatient Geriatric Clinic
Week 2: PACE Unit/Long Term Care

Student B: Week 1: PACE Unit/Long Term Care
Week 2: Short Term Stay/Outpatient Geriatric Clinic

Goals:
- Promote students’ knowledge of geriatric assessment and longitudinal care in multiple venues for care of the elderly
- Give students experience as first responders for acute changes in long-term care patients
- Improve ability of students to competently administer, score and interpret selected geriatric assessment tools (e.g., mini-mental state exam, confusion assessment method, timed up-and-go, and geriatric depression scale)
• Improve the ability of students to recognize and assess common geriatric syndromes (e.g., dementia, delirium, falls, pressure ulcers, and polypharmacy)
• Have students apply the results of geriatric assessment to develop an integrated problem list and care plan
• Enhance students’ understanding of the common ethical issues in geriatrics with emphasis on frail dependent elderly in long-term care environments
• Involve students in the interdisciplinary approach to care planning

Objectives:
• By the end of the rotation, a student will be able to be able to competently administer, score and interpret selected geriatric assessment tools.
• The student will be able to develop an integrated care plan based upon a geriatric assessment.
• The student will be able to recognize and assess common geriatric syndromes, formulate a differential diagnosis and management plan.

Location: Morse Geriatric Center, West Palm Beach, FL (100%)

Participating Faculty:
Karl Dhana, M.D., and other interdisciplinary faculty members

Prerequisite: Completion of M3 JFK Integrated Medicine Clerkship or the Miami Geriatrics Required Clerkship

Expectations: Students are expected to become active members of the interdisciplinary team. They will attend morning rounds, closely follow assigned patients, and present during interdisciplinary team meetings. The students are expected to be self-directed learners and identify learning issues pertaining to the care of their assigned patients and other patients whose care they may be involved in. The student will also be asked to present an article in Journal Club. The student will also be asked to document a complete geriatric assessment and plan using the template provided by the faculty.

Student Evaluation and Grading: The student’s final grade will consist of performance on the standard UMMSM clerkship student evaluation form and grades received on a progress notes, performance and documentation of a thorough geriatric assessment, journal club presentation, and for attendance and participation.

Final Examination: Students are expected to earn a score of 75% on the final examination in order to pass the course. In the event a student fails the Geriatrics exam, the student is responsible for scheduling a remediation exam with the RMC Medical Education office (jsollecito@med.miami.edu) and should contact the coordinator within 1 week of notification of failure to schedule a retake. A second failure will result in failure of the course and discussion at the Promotions Committee.

Revised November 2015
MULTIDISCIPLINARY
HEMATOLOGY AND ONCOLOGY @ DEERFIELD BEACH

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 868</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Mohammad Jahanzeb, MD</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:mjahanzeb@med.miami.edu">mjahanzeb@med.miami.edu</a></td>
</tr>
<tr>
<td></td>
<td>954-698-3665 / 954-698-3693</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>Joseph Sollecito, 561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year EXCEPT Blocks 1B, 3B, 4A, &amp; 5A/B</td>
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<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
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</table>

Please contact a minimum of 2 weeks before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance.

Overview:
This elective will focus on a multidisciplinary approach to the diagnosis and treatment of solid and blood cancers, as well as benign hematologic diseases. It will take place in the outpatient hematology oncology clinic at the Sylvester Cancer Center at Deerfield Beach.

Design:
The MS4 student will be part of the hematology and oncology consult service, the outpatient hematology oncology practice, the surgical oncology service, and the radiation oncology service. The clerkship will provide a basic knowledge of the natural history, diagnostic work up, treatment options, and areas of treatment controversy in the areas of common tumors (breast, respiratory tract, and digestive) and hematologic malignancies, and as well as common benign hematologic processes. The student will spend time in the outpatient clinic, working with specialists in the areas of oncology, hematology, surgical oncology, radiation oncology, and palliative care. The student is expected to participate in conferences. In addition to evaluating multiple patients on a daily basis, the student will be assigned 2 patients to follow longitudinally through the diagnosis and treatment process during the rotation.

Setting:
Sylvester at Deerfield Beach provides complete cancer care to patients in Broward and Palm Beach counties. Part of the Sylvester Comprehensive Cancer Center/ University of Miami Hospital & Clinics, the facility has a team of more than 30 cancer specialists offering multidisciplinary care in 14 of Sylvester's site disease groups.

Location:
1192 East Newport Center Drive, Suite 100
Deerfield Beach, Florida 33442

Participating Faculty:
- Dr. Mohammad Jahanzeb
- Dr. Charles Vogel
- Dr. Reshma Mahtani
- Dr. Deborah Glick
- Dr. Chukwuemeka Ikpeazu
- Dr. Laura Freedman
- Dr. Pamela Nottingham

**Prerequisite:**
Completion of all core clerkships

**Expectations:**
Hours: M-F: 7:30 AM – 5:30 PM

Supervised patient care activities in the following clinical areas
- Ambulatory Hematology/Oncology clinic: initial evaluation of the patient, including history and physical, participation in the discussion of assessment and plan with the patient and attending.
- Surgical oncology clinic: initial evaluation, including history and physical, assisting the surgeon with procedures, and post operative follow-up.
- Radiation oncology clinic: initial assessment of the patient including history and physical, participation in discussion of treatments with attending.

**Conferences** -
Tuesday: Case Conference, Tumor Board

**Independent Study**
Students will spend time reading on assigned topics and researching the literature to answer clinical questions pertinent to their patients.

**Electronic Resources:**
Students at have 24-hour access to the University of Miami online resources which links them to a vast collection of resources needed for their education, research, and care of patients.

**Evaluation:**
Students are evaluated at the end of each rotation using the standard Pass Fail format. The evaluation will be based on the areas of medical knowledge, clinical skills, self-directed learning, interpersonal and communication skills.

The supervising attending will provide verbal face-to-face feedback to the M4 student at the close of the second week and then again at the end of the rotation.

Reviewed January 2015
**HOLY CROSS HOSPITAL INFECTIOUS DISEASE ELECTIVE**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1022</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Ricardo Reyes, MD (<a href="mailto:Reye5240@bellsouth.net">Reye5240@bellsouth.net</a>)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a></td>
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<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine Clerkship</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

*Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and background checks that need to be done far in advance. There may be a costly fee for the background check.*

**Overview:**
Infected Disease Medicine requires an understanding of the microbiology, prevention and management of diseases caused by viral, bacterial, fungal and parasitic infections, including the appropriate use of antimicrobial agents, vaccines and other immunobiologic agents. The Infectious Disease fourth year elective at Holy Cross Hospital will provide students with the skills to begin to appropriately provide preventive, diagnostic and therapeutic care for many infections. There will also be specific experiences in HIV clinics to learn about the management of patients with HIV infection.

**Course Design:**
This Course is designed to provide students with clinical opportunities in an infectious disease clinic. They will work with Drs. Reyes, Goransek, and Guerra. Students will be expected to see patients in their Infectious Disease clinic, obtaining the initial history and physical and developing an assessment and plan under the supervision of the attending physician. If inpatient consults are available, the student may also be asked to evaluate patients in the hospital that need infectious disease specialists. Furthermore, students will have an opportunity to rotate through the Microbiology lab where they can learn how to do gram stains and how to evaluate cultures.

**Goals:**
The Goal of this elective is to have Fourth year students gain a better understanding of antimicrobial prescribing, vaccinations, factors that predispose to infections and how to appropriately assess and treat a variety of infectious diseases.

**Objectives:**
- **Patient Care:**
  - Students will employ effective techniques to obtain a history in patient with fevers, emphasizing exposures, travel and sexual history
  - Students will perform a complete physical exam and use appropriate language to describe findings
  - The student will organize a rational and clinical approach to the diagnosis and management of the most common infections including:
• Pharyngitis
• Otitis
• Sinusitis
• Meningitis
• Pneumonia
• Skin and soft tissue infection including osteomyelitis
• Prosthetic infections
• Sepsis
• Hepatitis
• Fever of Unknown Origin
• HIV infection

• Medical Knowledge
  • Students will interpret and integrate the results of cultures, imaging findings, serologies and antibiotic levels to patient care
  • Students will cite the epidemiology and clinical presentation of common pathogens including:
    • Staphylococcus
    • Streptococcus
    • C. Diff Colitis
    • Enterococcus
    • Pseudomonas
    • Klebsiella
    • Herpes Simplex Virus
    • Epstein Barr Virus
    • Hepatitis
    • HIV
    • Fungal infections
  • Indicate the spectrum of activity, side effects and mechanism of action for common antimicrobial agents

• Interpersonal and Communication Skills:
  • Students will communicate clear recommendations on assessment and management to both the care team as well as to the patient

• Professionalism
  • The student will be punctual to all clinical and didactic activities
  • The student will be prepared for all clinical and didactic activities

• Systems Based Practice:
  • Students will work in multidisciplinary teams and identify roles of each member in the care of a patient with an infectious disease

**Location:**
• Office of Dr. Reyes, Dr. Goransek and Dr. Guerra
• Holy Cross Hospital

**Participating Faculty:**
• Dr. Reyes
• Dr. Goransek
• Dr. Guerra

**Prerequisite:**
• Internal Medicine Clerkship

**Expectations:**
Students on this rotation are expected to come with an interest in learning. Expectations include conducting complete history and physicals and begin to create assessments and management plans under the supervision of faculty. After evaluating a patient, students should present to the attending physician in a thorough yet concise manner. They are to supplement clinical learning with independent reading to have a more robust educational experience.

Students are expected to conduct themselves in a professional manner. They are to notify their preceptor as well as course director of any anticipated absences.

They are to treat all patients, staff and physicians with respect.

**Student Evaluation and Grading:**

Students will be evaluated by the attending physician with whom they interact. Students will be evaluated based off of the completeness of their history and physical, and their ability to assess different infectious diseases. This will allow the attending to evaluate both medical knowledge and patient care. Attendance and punctuality will be used to assess professionalism. Students should also begin to develop skills in communicating findings and plans to patients which will be observed by attending physician, contributing to the grade in communication skills.

The final evaluation will be discussed face to face with the student, and will also be submitted electronically for official records.
JFK MEDICAL CENTER ICU MEDICINE

COURSE CODE: MDR 962
COURSE DIRECTOR: Jonathan Marcus, M.D., jmarcus.md@gmail.com
TELEPHONE: Joseph Sollecito, 561-886-1202
EMAIL: jsollecito@med.miami.edu
CONTACT: Joseph Sollecito, jsollecito@med.miami.edu, 561-886-1202
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of Core Clerkships
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
The objective of this rotation is to provide M4 students with hands on clinical experiences in an ICU setting that will expose them to the pathophysiology, and management of patients in an intensive care setting. The M4 will act as an integral member of the ICU team.

Design:
There will be two resident teams, designated Team A and Team B, during the ICU rotations each consisting of a senior resident and an intern. Each team will be assigned, and will follow 4 – 6 patients each per day. The M4 student will be a member of either Team A or Team B. There will be one student assigned to the team. The M4 student will follow patients with the supervising resident. The patients will be distributed by the teaching attending based on their teaching value and in order to provide each team with a broad experience and variation in patients.

Setting:
The Intensive Care Unit (ICU) is a 16 bed unit specializing in the care of critically ill patients with a wide spectrum of medical diseases. Conditions cared for in the ICU include, but are not limited to: acute hypoxia, respiratory failure, acute respiratory distress syndrome, acid-base imbalances, liver failure, renal failure, gastrointestinal bleeding, acute pancreatitis, acute stroke, sepsis, shock, congestive heart failure, myocardial infarction, intoxications, intracranial hemorrhage, status epilepticus, and coma. Student rotations in the ICU are four weeks in length. While in the ICU, residents and students work closely with the Critical Care Attending. The multidisciplinary team in the ICU also includes nurses, a social worker, a pharmacist, respiratory therapists, and a nutritionist.

Goals:
The goals of the rotation are to provide the M4 student with the clinical skills and knowledge they will need for their future clinical training. With the guidance and oversight of the supervising resident and attending, they will be taught the principles of critical care medicine and be given graduated levels of responsibility for the care of their patients in the ICU.
CRITICAL CARE ROTATION OBJECTIVES:

- To demonstrate an understanding of and incorporate into practice evidenced based critical care medicine
- To demonstrate an understanding of the manifestation of diseases as related to critically ill patients.
- To demonstrate understanding of and incorporate into practice multidisciplinary, collaborative patient care in the ICU.
- To observe pertinent ICU procedures.
- To demonstrate an understanding of the role of early goal directed therapy.
- To demonstrate an appreciation for appropriate healthcare utilization in the ICU.
- To demonstrate in the appropriate ordering of labs and interventions as well as the interpretation of ancillary data for critically ill patients.
- To describe the appropriateness of consultation requests.
- To develop a comprehensive plan for patient treatment, recovery and rehabilitation

Location: JFK Medical Center (100%)

Participating Faculty: Critical care specialists and other medical specialists.

Prerequisite: Completion of Core Clerkships

Expectations:
The M4 student will be a functioning member of the team. He/she will be responsible for admission notes, daily progress notes, transfer notes, discharge summaries at times, as well as daily written and oral hand-offs to the night covering staff. They are expected to place and call consults when indicated, order and follow up labs and radiology tests as well as other diagnostic modalities. It is expected that the M4 student will become the primary communicator with the patients’ families.

Patients will be distributed to the ICU resident teams each morning by the covering teaching attending. The PGY-2/3 will pre-round with the PGY-1’s and M4 students assisting in organizing data and synthesizing a plan for the day prior to Attending/Teaching Rounds. The M4 students are to write daily progress notes reflecting the assessment and plan on each patient under their care. Residents are responsible for performing all procedures on their patients under the supervision of the upper level teaching intensivist on service, and students are encouraged to actively participate.

Duty hours for the M4 students are the same as for the PGY-1 resident: 7:00AM-5:00PM Monday through Friday. Each student is expected to work one weekend day giving them a day off in a six day work week. All critical care units have 24-7 critical care attending in-house coverage and during normal working hours, a teaching attending will be on site.

The daily schedule is as follows:

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 – 9:00 a.m.</td>
<td>House Staff Work Rounds</td>
</tr>
<tr>
<td>9:00 – 12:00 p.m.</td>
<td>Attending/Collaborative Rounds</td>
</tr>
<tr>
<td>12:00 – 1:00 p.m.</td>
<td>ICU Noon Conference</td>
</tr>
<tr>
<td>1:00 – 5:00 p.m.</td>
<td>Admits, Work Rounds, Procedures with Attending</td>
</tr>
</tbody>
</table>

Afternoons are dedicated to seeing and evaluating new patients, conduct research on patient diagnoses, perform procedures under the supervision of the attending and to conduct family rounds and meeting with the patients’ families.
There will be an ICU Lecture/Discussion Series conducted throughout the rotation. These will be provided by the Critical Care Attending as part of the ICU noon conference, as well as various teaching pulmonologists, cardiologist, nephrologists and infectious disease specialists.

The M4 students are expected to attend these lectures.

**Conference Schedule:**
As above

**Readings:**
A syllabus will be provided at the beginning of the rotation.

**Evaluations and Feedback:**
The supervising Attending and Resident will provide verbal face-to-face feedback to the M4 student at the close of the second week and then again at the end of the rotation. The Attending and Resident will complete a written evaluation at the end of the rotation.

The M4 student will complete written evaluations of the rotation, attending, and resident at the conclusion of the rotation. Should any issues or questions arise during the rotation, the Course Director and the Director of Clinical Curriculum are available at all times.

Reviewed January 2015
JFK MEDICAL CENTER WARD MEDICINE

COURSE CODE: MDR 959
CLERKSHIP DIRECTOR: Sarah Bland, M.D. Sarah.Bland@hcahealthcare.com
TELEPHONE: Susan Mayorga, 561-886-1207
EMAIL: smm166@med.miami.edu
CONTACT: Susan Mayorga, smm166@med.miami.edu, 561-886-1207
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 4
AVAILABLE: All year EXCEPT Block 7AB
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: None
TYPE: Clinical

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
The objective of this rotation is to provide students with hands on clinical experiences that are specifically designed to mirror their upcoming roles as interns in postgraduate training. The medical Sub-intern will master specific core competencies and basic principles of inpatient medical care.

Design:
The sub-I will be a member of a medical ward team that consists of a Hospitalist attending, two residents, two interns and two third year clerks. The sub-intern will work specifically with one resident on the team who will directly oversee the sub-I and the care of his/her patients. They will focus on delivery of inpatient care to general medical patients as well as collaborate with medical and surgical subspecialties.

They will attend daily morning report and attending rounds as well as participate in daily sign out/hand off rounds. Sub-Interns will attend daily noon conferences, weekly grand rounds, and twice weekly sessions with sub-internship coordinators to review key inpatient topics.

Goals:
The goals of the rotation are to provide the Sub-I with the clinical skills and knowledge they will need for their future clinical training. With the guidance and oversight of the supervising attending and resident, the sub-I will be seen as the primary care giver by the patient and the hospital staff.

Objectives:

1. Demonstrate being an effective member of a health care team.
2. Demonstrate proficiency in history taking and performing the physical exam
3. Demonstrate proficiency in information gathering skills
4. Demonstrate proficiency in note writing and oral presentation skills
5. Demonstrate acceptable communication skills with patients and families as well as other medical professionals and ancillary staff, such that the MS4 student will be able to interact with these groups as the patient’s primary care giver.
6. Create differential diagnosis and appropriate management plans based on clinical reasoning and evidence based medicine
7. Coordinate multi/interdisciplinary care for patients including social work, case management, psychology, pastoral care, wound care, nutrition
8. Create plans of care for inpatient stay and transition to outpatient setting
9. Delineate and communicate appropriate hand offs/sign outs
10. Obtain informed consent and demonstrate ability to communicate risks, benefits, alternatives
11. Describe when subspecialty consultation should be sought and develop the communication skills to obtain the specific answers and help needed
12. Perform self directed learning, relevant patient care literature reviews and inculcate feedback into practice

Location:
JFK Medical Center (100%)
5301 South Congress Avenue
Atlantis, FL 33462

Participating Faculty:
Hospitalist Group and Medical Subspecialists

Prerequisite:
Completion of Core Clerkships

Expectations:
The sub-intern will be a functioning member of the team. He/she will be responsible for admission notes, daily progress notes, transfer notes, discharge summaries at times, as well as daily written and oral hand-offs to the night covering staff. They are expected to place and call consults when indicated, order and follow up labs and radiology tests as well as other diagnostic modalities. It is expected that the sub-intern will be the primary communicator with the patients’ families.

Work rounds will begin at 7 am after the sub-I receives the hand off from the night staff. Morning report occurs at 8:30 M,T,W,F, and Attending Rounds occur at 10:30 AM. There is no overnight call, and the average day typically runs from 7AM to 5:30 PM. The sub-intern is expected to round with the team 6 days per week. The volume of hospital admissions will determine the number of admissions per call not to exceed three. The total number of patients a sub-intern can carry is seven.

The sub-intern will attend all conferences delineated below. They will also be expected to attend a weekly sub-internship conference during which key inpatient clinical topics will be reviewed. This time will also be used as a forum to allow the sub-interns to voice their issues, questions, and concerns regarding the rotation, hospital system, and the program.

Conference Schedule:
The following are a list of conferences that the sub-interns are expected to attend.

1. Daily noon conference, JFK Medical Center
2. Internal Medicine Grand Rounds: Thursdays 7:30 AM,
3. Morning Report M,T,W and F, 8:30 AM
4. Sub-I weekly bedside rounds with course director: Tuesday afternoon

Readings:
A syllabus will be provided at the beginning of the rotation.
Evaluations and Feedback:
The supervising Attending and Resident will provide verbal face-to-face feedback to the sub-I at the close of the second week and then again at the end of the rotation. The Attending and Resident will complete a written evaluation at the end of the rotation.

The sub-intern will complete written evaluations of the rotation, attending, and resident at the conclusion of the rotation. Should any issues or questions arise during the rotation, the sub-I should address them to the sub-I coordinator at any time.

Revised January 2015
MEDICINE-PEDIATRICS
MED-PEDS PRIMARY CARE/TRANSITIONAL CARE ELECTIVE
(Listed under Medicine, Pediatrics, and Med-Peds)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1013</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr. Abiona Redwood (effective Sept 1 – Dr. Eyssallenne until then)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-7476</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ARedwood@med.miami.edu">ARedwood@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Javier Salazar; <a href="mailto:JSalazar@med.miami.edu">JSalazar@med.miami.edu</a>; 305-585-5954</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine and Pediatrics Core Clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day / 2 weeks OR 2 days / 4 weeks, with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

**NOTE:** ANY schedule changes must be authorized by Dr. Patel or the Med/Peds Residency Coordinator before your schedule can be officially changed.

**Overview:**
Combined Internal Medicine and Pediatrics is a unique specialty that trains physicians in the care of patients of all ages. The elective aims to give students exposure to Med/Peds in an urban primary care practice setting. Students will see routine care of newborns, infants, children, adolescents and adults, as well as care of patients with complex pediatric diseases as they transition into adulthood.

**Course Design:**
The rotation will comprise of the following experiences:

6. **Med/Peds Primary Care Practice** - Students will spend a majority of their time with Med/Peds faculty and residents seeing and evaluating patients in the primary care practice. This will include patients that are being transitioned from pediatrics to adult care.

7. **Med/Peds and Categorical Noon Conference** - Students will attend daily noon conference, including Monday and Thursday Med/Peds noon conference, Tuesday Pediatric Grand Rounds, Wednesday Internal Medicine Grand Rounds. The student will give a presentation at the last Med/Peds noon conference of his/her rotation.

8. **Transitional Care Online Modules** - Students will be given time for “self study” for online modules that discuss transitional care.

9. **Transitional Care Meetings** - Students will have exposure to meetings in various departments to discuss transition of their complex pediatric patients.

10. **Transitional Care Clinics** - Students will have exposure to adolescent/ transitional care patients with complex pediatric diseases. *depends on availability*
Sample Weekly Schedule

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AM</strong></td>
<td>Med/Peds Faculty Clinic</td>
<td>Med/Ped Faculty Clinic</td>
<td>Med/Ped Faculty Clinic</td>
<td>Self Study/Lecture preparation</td>
<td>Peds Staff Conference</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Med/Ped Faculty Clinic</td>
</tr>
<tr>
<td><strong>Noon</strong></td>
<td>Med/Peds Conf</td>
<td>Peds Grand Rounds</td>
<td>Internal Med Grand Rounds</td>
<td>Med/Peds Conf</td>
<td>IM or Peds Noon Conf</td>
</tr>
<tr>
<td><strong>PM</strong></td>
<td>Med/Ped Faculty Clinic</td>
<td>Self Study or Transitional Care Meeting</td>
<td>Med/Ped Resident Clinic</td>
<td>Self Study or Transitional Care Meeting</td>
<td>Med/Ped Resident Clinic</td>
</tr>
</tbody>
</table>

**Goals:**

4. The students will receive exposure to the Med/Peds specialty and the unique opportunities the career can provide.
5. The student will receive broad clinical training in the care of adult and pediatric outpatients in a major urban setting.
6. The student will receive exposure and didactic training in transitional care of the complex pediatric patient.

**Objectives:**

4. The student will learn and be able to apply age/gender appropriate screening, immunizations, and anticipatory guidance for the following populations:
   - Newborn
   - Infant/Toddler
   - School Aged Child
   - Adolescent
   - Adult
5. The student will be able to diagnosis and provide initial management of the following primary care problems:
   - Gastroesophageal Reflux
   - Allergic Rhinitis
   - Asthma/COPD
   - Obesity
   - HTN
   - Diabetes Mellitus
   - Hyperlipidemia
   - Low Back Pain
6. The student will know the following with regard to transitional care:
   - The definition of healthcare transition
   - The importance of providers to understand the specific issues regarding healthcare transition
   - Specific tools and resources they can utilize to help youth and their families develop a long-term transition plan
   - Specific strategies that can be used with young patients to empower them to be more responsible for their own healthcare.
   - The importance of multispecialty (pediatrics, internal medicine, subspecialists) coordination in the transition of healthcare from pediatric to adult care.
Location:
- Primary Location- Jackson Memorial Hospital Ambulatory Care Center Med Peds Primary Care Practice (ACC West 5A)
- Students may be asked to attend meetings/conferences in other parts of ACC, Jackson Memorial Hospital or University of Miami Hospital and/or Clinics.

Participating Faculty:
- Med Peds Faculty and Faculty from Division of Internal Medicine and Division of Pediatrics

Prerequisite:
- Completion of both Internal Medicine and Pediatric Core Clerkships

Expectations:
- The student is expected to participate in all activities (primary care clinic, transitional care meetings, self-study modules, oral presentations, noon conferences) in the course curriculum. They are expected to be on time, and to give appropriate notice to clerkship director for all absences or tardiness.
- Students are expected to follow the codes of professionalism as mandated by the School of Medicine.
- Progress notes on patients that are evaluated by the student are to be completed by the end of the same day the patient was seen.
- Students are to complete the on-line transitional care modules by the end of the rotation.

References
Online Modules/Training:
- Florida Health and Transition Services Education and Training for Health Care Professionals- http://www.floridahats.org/?page_id=2206

Suggested Readings:

Student Evaluation and Grading:
- The medical student will receive a written evaluation at the end of the month based on the six ACGME core competencies. This will be reviewed with the student by the faculty evaluator.
- The student will complete an evaluation of the overall rotation and of the faculty with whom they worked.
- Grading will be given as pass/fail.

Revised January 2015
INTRODUCTION TO NEUROSURGERY

COURSE CODE: MDR 924
CLERKSHIP DIRECTOR: Howard Landy, MD and Ricardo Komotar, MD
TELEPHONE: 305-243-6751
EMAIL: AGiraldo@med.miami.edu / IMenendez@med.miami.edu
CONTACT: Andres Giraldo / Ingrid Menendez [Lois Pope Life Ctr. 2nd floor]
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Internal Medicine, Surgery, and Neurology; If Neurology not possible, see below for links to three videos to view beforehand
NUMBER OF STUDENTS: 4
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks), with prior approval
TYPE: Clinical

This course is intended for two groups of students:
- Third year students to provide an exposure to NRS in helping them decide their career specialty
- Fourth year students who are not going into NRS to provide them exposure to NRS
A student may take this course as a third year student and then take the NRS Sub-I as a fourth year student. However, as this course provides a similar experience as the NRS Sub-I, a student may not take both this course and the NRS Sub-I as a fourth year student.

Overview:
This 2 week elective is intended to give the third year medical student an initial acquaintance to neurosurgery including the pathophysiology, evaluation, and management of the spectrum of disorders that confront the modern neurosurgeon. The UM neurosurgery service covers virtually the entire gamut of neurosurgical practice. The clinical service is divided into teams that focus primarily on specific subspecialty areas. The spine team cares for patients with tumors, trauma, degenerative disease, and other disorders. The general cranial team deals with cerebrovascular disease, tumors, epilepsy, movement disorders, and other pathology. A separate team cares for patients with head injuries. The pediatric division cares for patients at both Jackson Memorial Hospital and Miami Children's Hospital.

Course Design:
Didactic lectures will cover fundamentals of the different categories of neurosurgical diseases including pathophysiology, evaluation, and management. The student will spend segments of time on the spine, general cranial, and head trauma teams. Interested students may also be exposed to the pediatric service. Students will participate in the daily activities of the service including work rounds and care of patients on the floors and in the Neuroscience Intensive Care Unit. Students will attend morning report and other conferences and weekly grand rounds. Students will observe in the operating room and, in appropriate circumstances, may participate as surgical assistants.


Goals:
1. Familiarize the student with the major categories of disease encountered by the neurosurgeon.
2. Review the pertinent anatomy and physiology of the nervous system and its supporting and covering structures as they relate to neurologic diseases.
3. Familiarize the student with the process of evaluation of neurologic diseases including careful history taking and physical examination, along with imaging techniques such as computed tomography and magnetic resonance imaging.
4. Familiarize the student with the surgical and nonsurgical management of patients seen by the neurosurgeon.
5. Familiarize the student with the systemic ramifications of neurosurgical diseases and the necessary general medical management.

**Objectives:**
The student will understand the basics of the pathophysiology, evaluation, and management of the following topics:
1. Increased intracranial pressure: intracranial compartments, herniation syndromes
2. Head injury: skull fracture, intracranial hematoma, brain injury
3. Spinal injury and degenerative disease: neurologic examination of spinal levels, spinal fracture/dislocation, spinal cord and root injury, spondylosis
4. Tumors of the nervous system: benign and malignant tumors of the brain and spine
5. Functional disorders: movement disorders, epilepsy, pain
6. Cerebrovascular disease: ischemic disease, subarachnoid hemorrhage

For each category of disease above:
1. The student should become familiar with the use of the neurologic exam in addition to the use of modern imaging. The student should be able to discuss likely physical findings and appropriate selection of imaging techniques
2. The student should be able to discuss management options and prognoses.
3. The student should be familiar with the systemic ramifications of neurosurgical diseases and the necessary general medical management.

**Location:**
JMH (90%) and UMH (10%). Students may rotate at Miami Children’s Hospital (if student rotates on the pediatric team, approximately 20% of the time would be deducted from JMH time).

**Participating Faculty:**
Faculty of the Department of Neurological Surgery

**Prerequisite:**
Internal Medicine, Surgery, and Neurology. If Neurology cannot be scheduled beforehand, the student must review the following three videos prior to the beginning of the rotation. You may find links to the three videos in the “STANDARIZED CURRICULUM” section on page 3 of the Syllabus for the Neurology Clerkship found online under Course Materials.
- Essential Neurologic Exam
- Essential Neurologic Findings
- Neuroanatomy Review

**Expectations:**
The student will be expected to actively participate in all didactic activities and all clinical activities of the assigned teams including work rounds, morning report and other conferences, and grand rounds. The student will participate in the care of patients under the supervision of housestaff and faculty. Students will observe in the operating room and, in appropriate circumstances, may participate as surgical assistants.
**Student Evaluation and Grading:**

1. Students will be evaluated as to the level of participation in clinical team activities. Feedback from housestaff and faculty will be obtained for this evaluation.
2. A formal case presentation to the course coordinator will be performed by the student in a small group setting. The level of thoroughness of preparation of the presentation and the level of understanding of the case will be assessed.

Reviewed January 2015
NEUROSURGERY

COURSE CODE: MDR 852
CLERKSHIP DIRECTOR: Howard Landy, M.D.
TELEPHONE: 305-243-6751 / -9605
EMAIL: AGiraldo@med.miami.edu / IMenendez@med.miami.edu
CONTACT: Andres Giraldo / Ingrid Menendez [Lois Pope Life Ctr. 2nd floor]
LENGTH OF ELECTIVES: 4 Weeks
PREREQUISITE: Completion of all Core Clerkships and Neurology; If Neurology not possible, see below for links to three videos to view beforehand
NUMBER OF STUDENTS: 4
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

Overview:
The neurosurgery service covers virtually the entire gamut of modern neurosurgical practice. The clinical service is divided into teams that focus primarily on specific subspecialty areas. The spine team cares for patients with tumors, trauma, degenerative disease, and other disorders. The general cranial team deals with cerebrovascular disease, tumors, epilepsy, movement disorders, and other pathology. A separate team cares for patients with head injuries. The pediatric division cares for patients at both Jackson Memorial Hospital and Miami Children’s Hospital. The JMH Neuroscience Intensive Care Unit is one of the largest such facilities in the world and is an important center of the department's clinical activities.

Course Design:
This senior level clinical clerkship is appropriate for students considering careers in neurological surgery as well as those intending to pursue related fields such as neurology, orthopedics, otolaryngology, general surgery, and neuroradiology. It may also be of interest to students planning careers in primary care; primary care physicians have significant contact with patients having neurologic disease.

Students will generally be expected to rotate through segments of time on the spine, general cranial, and head trauma teams. Interested students may also rotate on the pediatric service.

Goals:
1. Familiarize the student with the major categories of disease encountered by the neurosurgeon.
2. Involve the student in the process of evaluation of neurologic diseases including careful history taking and physical examination, along with imaging techniques such as computed tomography and magnetic resonance imaging.
3. Involve the student in the surgical and nonsurgical management of patients seen by the neurosurgeon.
4. Familiarize the student with the systemic ramifications of neurosurgical diseases and the necessary general medical management.

Objectives:
The student will understand the basics of the pathophysiology, evaluation, and management of the following topics:
1. Increased intracranial pressure: intracranial compartments, herniation syndromes
2. Head injury: skull fracture, intracranial hematoma, brain injury
3. Spinal injury and degenerative disease: neurologic examination of spinal levels, spinal fracture/dislocation, spinal cord and root injury, spondylosis
4. Tumors of the nervous system: benign and malignant tumors of the brain and spine
5. Functional disorders: movement disorders, epilepsy, pain
6. Cerebrovascular disease: ischemic disease, subarachnoid hemorrhage

For each category of disease above:
1. The student should become familiar with the use of the neurologic exam, in addition to the use of modern imaging. The student should be able to discuss likely physical findings and appropriate selection of imaging techniques
2. The student should be able to discuss management options and prognoses.
3. The student should be familiar with the systemic ramifications of neurosurgical diseases and the necessary general medical management.

Location:
JMH (75%)
UMH or Miami Children’s Hospital (25%)

Participating Faculty:
Faculty of the Department of Neurological Surgery

Prerequisite: Completion of all core clerkships and Neurology. If Neurology cannot be scheduled beforehand, the student must review the following three videos prior to the beginning of the clerkship. You may find links to the three videos in the “STANDARIZED CURRICULUM” section on page 3 of the Syllabus for the Neurology Clerkship found online under Course Materials.

- Essential Neurologic Exam
- Essential Neurologic Findings
- Neuroanatomy Review


Expectations:
Students will be expected to participate in the daily activities of the service including work rounds, morning report and other conferences, and grand rounds. Students will observe in the operating room and, in appropriate circumstances, may participate as surgical assistants. Students will be expected to participate in night call approximately once per week while on the rotation. Students will follow patients from admission through surgical or other treatment to discharge planning; outpatient clinics will also be attended. Each student will be responsible for a formal case presentation in a small group session.

In special circumstances, tailored rotations may be considered. Satisfactory performance and worthwhile experience require significant effort by the student.

Student evaluations and grading:
The student will be evaluated on the basis of level of effort, development of a basic fund of knowledge, and quality of case presentation.

Revised January 2015
NEUROLOGY
NEUROLOGY CLERKSHIP

COURSE CODE: MDR 707
CLERKSHIP DIRECTOR: Yolanda Reyes-Iglesias, M.D.
EMAIL: Y.ReyesIglesias@miami.edu
CLERKSHIP COORDINATOR: Damianie Montero, 305-243-4633, [CRB 1383]
EMAIL: dxj113@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 16
AVAILABLE: All year
U.S VISITING STUDENTS: No
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

Overview:
The Neurology Clerkship exposes students to common and emergency neurological diseases. Students have the option of exposure to Pediatric Neurology during the clerkship. Students are expected to become competent in the neurological examination, diagnosis, evaluation by various modalities of imaging and laboratory testing, and treatment options. Students are exposed to inpatient ward, consult and stroke services. Students are evaluated on their knowledge of neurology, their interpersonal skills, and their professionalism.

Revised November 2015
NEUROLOGY CONSULTATION

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 849</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Yolanda Reyes-Iglesias, M.D.</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:Y.ReyesIglesias@miami.edu">Y.ReyesIglesias@miami.edu</a></td>
</tr>
<tr>
<td>CLERKSHIP COORDINATOR:</td>
<td>Damianie Montero, 305-243-4633, [CRB 1383]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:dxj113@med.miami.edu">dxj113@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Neurology</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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Overview/Course Design:
On this service, students who have completed the neurology clerkship are provided the opportunity to evaluate off-service neurology problems with the neurology consulting resident and attending assigned to that service.

Goals/Objectives:
Students will be exposed to and participate in neurology consults.

Location: JMH and (50% each) /or UMH (if assigned to one location 100%, if assigned to two locations 50% for each location)

Prerequisite: Neurology required rotation

Expectations:
During the elective, you will be expected to report each morning to the neurology consult resident, pager 305-585-2255, extension 0689, and/or UMH pager 305-750-0447.

Student evaluations and grading:
Supervising attending and residents will complete evaluation forms documenting student performance on the elective in the following categories: (1) patient evaluation skills, (2) data gathering and problem solving, (3) fund of knowledge, (4) case presentations, (5) patient write-ups and progress notes, (6) personal qualities, (7) ward activities and responsibilities, and (8) communication and interpersonal relationships.

On the first day of the elective rotation, students should report to the Coordinator of Senior Electives, Damianie Montero, at 9 AM at the Clinical Research Building (CRB), 13th Floor, 1383.

Revised November 2015
INPATIENT GENERAL NEUROLOGY AND CLINICS

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 850</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Yolanda Reyes-Iglesias, M.D.</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:Y.ReyesIglesias@miami.edu">Y.ReyesIglesias@miami.edu</a></td>
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<tr>
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<td>PREREQUISITE:</td>
<td>Neurology</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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</tr>
<tr>
<td>TYPE:</td>
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**Overview:**

Third- or fourth-year students who have completed the clinical clerkship in neurology may perform an elective on the General Neurology service at Jackson Memorial Hospital or the Veterans Administration Medical Center with an array of university-run or private physician clinic choices to complement this experience. Clinic choices include Epilepsy, Veterans Administration Neurology, Neuro-ophthalmology, Neuromuscular, Stroke, Pediatric Neurology, Multiple Sclerosis, Movement Disorders, Neuro-Oncology, Sleep and Headache. Experience in EMG and Neuropathology can be arranged based on director approval and availability.

**Course Design:** During this course students are expected to care for a limited amount of patients on a general Neurology service and be active members on a General Neurology team. A customized Outpatient Neurology clinic schedule can be offered.

**Goals/Objectives:** Students will be exposed to and participate in the care of patients with neurologic disorders.

**Location:** JMH

**Prerequisite:** Neurology required rotation

**Expectations:** Students in the inpatient exposure should attend Neurology Morning Report at the Jackson Central 2 Auditorium each morning at 7:15 AM and Neurology Grand Rounds 12:15 PM – 1:15 PM each Friday. The student is expected to take at least one nighttime call per week from 4:00 PM-11:00 PM. Students in the outpatient exposure are not required to do call.

**Student evaluations and grading:** Supervising attending and residents will complete evaluation forms documenting student performance on the elective in the following categories: (1) patient evaluation skills, (2) data gathering and problem solving, (3) fund of knowledge, (4) case presentations, (5) patient write-ups and progress notes, (6) personal qualities, (7) ward activities and responsibilities, and (8) communication and interpersonal relationships.

On the first day of the elective rotation, students should report to the Coordinator of Senior Electives, Damianie Montero, at 9 AM in the Clinical Research Building (CRB) 13th Floor, 1383.

Revised November 2015
## STROKE NEUROLOGY

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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Yolanda Reyes-Iglesias, M.D.</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:Y.ReyesIglesias@miami.edu">Y.ReyesIglesias@miami.edu</a></td>
</tr>
<tr>
<td>CLERKSHIP COORDINATOR:</td>
<td>Damianie Montero, 305-243-4633, [CRB 1383]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:dxj113@med.miami.edu">dxj113@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<tr>
<td>PREREQUISITE:</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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### Overview:
Third- or fourth-year medical students who have completed the clinical clerkship in Neurology may perform a 2- or 4-week rotation on the stroke neurology service at Jackson Memorial Hospital under the supervision of a stroke neurology attending.

### Course Design:
During the course, the student is expected to care for a limited number of patients on the stroke service and to be an active member of the stroke team. The student should report each morning for stroke inpatient rounds on West Wing 11 at a time designated by the stroke attending.

### Goals/Objectives:
Students will be exposed to and participate in the care of stroke patients.

### Location:
JMH

### Prerequisite:
Neurology required rotation

### Expectations:
The student is expected to take at least one nighttime call per week from 4:00 PM-11:00 PM.

### Student evaluations and grading:
Supervising attending and residents will complete evaluation forms documenting student performance on the elective in the following categories: (1) patient evaluation skills, (2) data gathering and problem solving, (3) fund of knowledge, (4) case presentations, (5) patient write-ups and progress notes, (6) personal qualities, (7) ward activities and responsibilities, and (8) communication and interpersonal relationships.

On the first day of the elective rotation, students should report to the Coordinator of Senior Electives, Damianie Montero, at 9 AM in the Clinical Research Building (CRB) 13th Floor, 1383.

**Revised November 2015**
JFK NEUROLOGY CLERKSHIP

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<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr. Casandra Mateo</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-548-1550</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ESimms@med.miami.edu">ESimms@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Erica Simms, <a href="mailto:ESimms@med.miami.edu">ESimms@med.miami.edu</a>, 561-548-1550</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<tr>
<td>PREREQUISITE:</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval, 2 weeks advance notice</td>
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<td>TYPE:</td>
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Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and background checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
The purpose of the JFK Neurology clerkship at JFK Medical Center is to provide students with an opportunity to acquire a foundation of knowledge and skills to care for patients with neurological conditions. The primary goals of the Neurology Clerkship are for you to gain competence in taking a neurologic history and performing a neurologic exam, and use them to aid in localization and diagnosis of neurologic disease. Also, it is hoped students will develop knowledge, attitudes, and skills necessary to assess, diagnose and refer patients presenting in the primary care setting with neurologic complaints. Students will have the opportunity to explore the field of neurology as a potential career path through exposure to a variety of complaints, diagnoses, patient encounters, and case-based didactics. Students are evaluated on their knowledge of neurology, their interpersonal skills, and their professionalism.

A detailed syllabus will be provided. The Neurology rotation will include:
- Orientation
- Student assignment to the inpatient consultation service and outpatient clinic
- Required classroom sessions (lectures, case conferences) followed by quizzes
- Neuroimaging/brain quiz
- Ethics lecture/discussion
- Two written case summary presentations accompanied by one article pertinent to the diagnosis
- One ward base teaching written presentation
- Mid rotation feedback session with Clerkship Director
- Final computer based exam
- OSCE

Location: JFK Hospital and MSPB Neurology office (100%)

Prerequisite: None

Scheduling/Attendance:
Students are expected to attend all clinic sessions, inpatient rounds, and clerkship teaching activities. Accommodations may be made for no more than 2 interviews. Students must make up any missed shifts either during the rotation or within 4 weeks of its end. Orientation day, final exam and OSCE cannot be missed or rescheduled. If you will be late for or absent from any activities, you are required to inform Dr. Mateo.

**Orientation: MANDATORY SESSION**
You must report to orientation at 8:30 AM at the start of the rotation at the MSPB Neurology office 140 JFK Drive, Atlantis, FL. Orientation materials, reading lists, and evaluation forms will be provided.

**Classroom: REQUIRED ATTENDANCE**
- Lectures/Quizzes
- Ethics lecture/Discussion
- Final exam and OSCE

**Course Completion:**
Students will be required to submit all assignments: i.e. patient logs, case presentations, and course evaluation forms in order to complete the rotation. A final examination will be given at the last Friday of the rotation (or TBD). **All other documentation must be turned in within 5 business days after the rotation ends, or your grade will be submitted as an incomplete.**

Reviewed January 2015
NOTE: ANY schedule changes involving ALL Obstetrics and Gynecology rotations, must be authorized by Tameka Collins before your schedule can be officially changed.
GYNECOLOGIC ONCOLOGY

COURSE CODE: MDR 856
CLERKSHIP DIRECTOR: J. Matt Pearson, M.D.
TELEPHONE: 305-243-2233
EMAIL: MPearson@med.miami.edu
CONTACT: Tameka Collins; tcollins@med.miami.edu; 305-585-5586
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
The objective is for the student to gain experience in the diagnostic and therapeutic approaches for various gynecologic cancers through participating in direct patient care and Resident/Fellow didactic activities. Students will enhance interpersonal skills and professional conduct in the female patient encounter setting. After completing the rotation, students should feel comfortable with both pre and postoperative management of women having common gynecologic procedures, and have an understanding of the management of women with gynecologic malignancies.

Course Design:
During this four week course, the student will act as a substitute intern and will be directly involved in patient care. The student must attend the weekly Fellow’s Conference, Tumor Board, Grand Rounds and daily rounds (this includes AM and PM rounds) with the team. After morning rounds, the student will have certain days that he/she is assigned to the operating room. On these days, the student will assess the patient preoperatively and assist in preparing the patient for surgery under the supervision of the Resident/Fellow. When not assigned to the operating room, the student will attend clinic where he/she will improve clinical and procedural skills. The student will also be expected to assist in the evaluation of patients being admitted from the emergency room for surgery or treatment on the floor. There are 2 positions available within each allotted 4 week rotation period. Students will be assigned on a first come first serve basis with regard to the location of preference for the rotation either at Jackson Memorial Hospital or University of Miami Hospital/Sylvester Comprehensive Cancer Center. Students will report directly to the Chief Resident/Fellow for daily clinical assignments.

Goals/Objectives:
- Perform the complete gynecologic history and physical examination, including sexual, contraceptive, menstrual and targeted obstetric history, and family history to screen for genetic predisposition to gynecologic or other malignancy.
- Counsel patients regarding HPV and precancerous lesions.
- Perform a pap smear, endometrial biopsy, supervised colposcopy
- Describe the initial workup, surgical and medical treatments, staging and prognosis for common gynecologic malignancies
Identify the indications for inpatient versus outpatient management and referral for specialty/subspecialty consultation
Demonstrate the complete pre and post operative evaluations required for common gynecologic oncology surgical procedures
Expand basic gynecologic oncology knowledge through reading materials, case discussions and direct patient care

**Location:**
- Jackson Memorial Hospital (Holtz Center 7007A, Ward 7A, DTC operating rooms, and ACC 4A) (50%)
- Sylvester Comprehensive Cancer Center (Fellow’s Conference, Tumor Board, operating rooms) (variable %)
- University of Miami Hospital (operating rooms) (50%)

**Participating faculty:**
- Dr. Matt Pearson (Office Sylvester SCC 3500), Gynecologic Oncology (305-243-2233)
- Course coordinator - Tameka Collins; 305-585-5586

**Prerequisite:**
- Successful completion of the third year OB-GYN clerkship
- An interest in Obstetrics and Gynecology and Women’s Health
- Desire to deepen fund of knowledge and hone procedural skills particular to the specialty

**Expectations:**
- Complete a small project (either literature search pertaining to a research topic or presentation of a topic of interest), due at the end of the rotation to be presented at Fellow’s Conference (PowerPoint)
- Meet with the coordinator during the rotation to review the project
- Attend rounds daily
- Attend Grand Rounds weekly
- Attend weekly Tumor Board - Rad. Onc. Conference room 1st floor SCCC Fridays 1:15 pm
- Attend clinic when assigned
- Attend assigned surgical cases (preference given to Sub-I’s within reason)
- Attend Fellow’s Conference SCC 3500 conference room Fridays 2:15pm, lunch is served
- Function as a substitute intern with patient care responsibilities
- Submit a written evaluation of the rotation, faculty and overall educational experience.

**Student evaluations and grading:**
Grading will be Pass/Fail and based on:
- Attendance to assigned activities
- Evaluation from faculty, fellows, and residents
- Completion of project/presentation.

Reviewed January 2015
UMH GYNECOLOGY

COURSE CODE: MDR 801
CLERKSHIP DIRECTOR: Tarek Barawil, MD
TELEPHONE: 305-585-5586
EMAIL: TBardawil@med.miami.edu
CONTACT: Tameka Collins; tcollins@med.miami.edu; 305-585-5586
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Obstetrics and Gynecology Clerkship
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S VISITING STUDENTS: Yes, per approval by attending
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
This rotation is intended for students with an interest in the fields of Obstetrics and Gynecology, Urology, General Surgery and Family Medicine. Students will become an integral part of the gynecology service at the University of Miami Hospital. Experience will include participation in private practice clinics, office surgery, inpatient consults, surgery in the operating room and post operative care. Surgeries will include minor procedures, operative laparoscopy, robotics and open gynecologic surgery. Students are expected to display a high level of intellectual curiosity and perform at the level of an intern in Obstetrics and Gynecology.

Course Design:
- Monday-Friday: a.m. and p.m. rounds on all patients admitted to the GYN service
- Monday-Friday: Cover gynecology consults from emergency room, inpatient services and operating rooms
- Monday: UMH OR
- Tuesday: Clinic
- Wednesday, a.m.: Office surgeries in UMH Professional Building, Suite 201
- Wednesday, p.m.: Clinic, or cases in UMH OR
- Thursday: UMH OR
- Friday: UMH OR

Goals:
- By the end of this rotation, students will be able to:
  o Perform a complete consult for common gynecologic problems encountered on an inpatient consult service
  o Perform and present a full history, physical and work-up for chronic gynecologic problems treated in the outpatient setting
  o Formulate a long term plan of management for chronic gynecologic problems treated in the outpatient setting
  o Demonstrate knowledge of the instrumentation used for common gynecologic office surgeries: vulvar and vaginal procedures, LEEP, hysteroscopy, endometrial ablation and hysteroscopic tubal occlusion
Perform a comprehensive preoperative evaluation for gynecologic surgery
- Demonstrate and perform basic operating room skills: prepping, positioning, draping, sterile technique, placement of Foley catheter
- Perform as a first assistant in office surgeries, minor and major gynecologic surgeries and laparoscopy

Objectives:
- By the end of this rotation, each student will have:
  - Performed daily rounds and actively participate in the management of at least 8 patients admitted to the gynecologic service for acute gynecologic problems or postoperative care
  - Seen, evaluated and presented to an attending at least 8 inpatient gynecologic consults
  - Seen, evaluated and presented to an attending at least 12 office gynecologic patients with a chronic problem needing a long term plan of care
  - Scrubbed in and assisted on at least 6 office surgeries including: vulvar and/or vaginal procedures, LEEP, hysteroscopy, endometrial ablation and hysteroscopic tubal occlusion
  - Performed preoperative evaluation and preparation of at least 10 gynecologic surgeries in the operating room
  - Performed the basic preparations for surgery upon at least 10 patients in the operating room: prep, position, drape and place Foley catheter
  - Scrub in an assist on at least 10 gynecologic surgeries in the operating room

Location:
University of Miami Hospital (100%)

Participating Faculty:
- Tarek Bardawil, MD (coordinator)
- Ira Karmin, MD

Prerequisite:
Obstetrics and Gynecology Clerkship

Expectations:
- Students are expected to be self motivated learners with an interest in the fields of Obstetrics and Gynecology, Radiology and/or General Surgery
- Students will report to the hospital early every morning to complete rounds on all admitted patients. They will be expected to present each patient to the attending covering the service. Presentations will include an appropriate, focused evaluation and plan of management
- Students will be active participants in procedures

Student Evaluation and Grading:
- Students will be evaluated by the faculty members noted above
- The course is Pass/Fail
- Specific areas of knowledge/skill to be evaluated
  - Ability to evaluate, present and formulate a plan of care for the gynecologic patient
  - Demonstrate a basic working knowledge of the options to treat gynecologic problems: medical therapies, office surgery, minimally invasive surgery, major surgery
  - Explanation of the appropriate preoperative workup for gynecologic surgery
  - Demonstration of basic procedural and operating room skills
  - Performance as an assistant during office and operating room surgeries
  - Level of intellectual curiosity

Revised January 2015
MATERNAL FETAL MEDICINE

COURSE CODE: MDR 857
CLERKSHIP DIRECTOR: Gene Burkett, MD
TELEPHONE: 305-243-7481
EMAIL: GBurkett@med.miami.edu
CONTACT: Tameka Collins; tcollins@med.miami.edu; 305-585-5586
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of Core Clerkships
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
The objective is for the student to gain experience in the diagnostic and therapeutic approaches for various obstetrical scenarios through participating in direct patient care. Students will enhance interpersonal skills and professional conduct in the female pregnant patient encounter setting. After completing the rotation, students should feel comfortable with the management of an uncomplicated vaginal delivery and also gain insight into the management of the complicated obstetrical patient.

Course Design:
- This is a four week course where the student is expected to be directly involved in patient care and act as a substitute intern. The student is expected to attend the daily morning report. The student will be primarily assigned to the antepartum floor and high risk obstetrical clinics. The student will be expected to assist the resident with rounds of the antepartum and postpartum patients. The student will alternate between the high risk obstetrical clinic and the antenatal testing including ultrasound and non-stress tests and biophysical profiles. The student should spend one half day per week in the ultrasound department. The student is also expected to attend the monthly fetal board and may be asked to present a patient there. The student will be expected to take three overnight calls on the labor floor where she/he will act as the intern under direct supervision of the third year resident and be responsible for the management and delivery of at least one patient per week. In managing a laboring patient the student has the option of staying until 10pm on that day. There will be no post-call responsibilities.
- The student will be expected to perform one case report each week on an antepartum or laboring patient, (including a discussion of the subject) and to discuss this with the director of the clerkship or a faculty mentor of the student's choice.
- If the student is interested, the rotation can also include a special interest in management of the obstetrical patient with HIV. If the student chooses this path, the student will attend the HIV clinic and work on a project with Dr. Yasin.

Goals/Objectives:
- Expand knowledge of the obstetrical patient with reading materials and case discussions as well as direct patient care
- Develop triage skills, indications for inpatient versus outpatient management and referral for specialty/subspecialty consultation
• Develop a systematic approach and management plan for patients in labor
• Expand the knowledge outpatient and inpatient management of the complicated obstetrical patient
  including patients with gestational diabetes, pregestational diabetes, preeclampsia, preterm labor,
  preterm rupture of membranes, placenta previa, pyelonephritis, and fetuses with congenital anomalies
• Perform basic obstetrical examination including Leopold’s maneuver and fetal presentation
• Understand antepartum fetal surveillance tests available and learn some of the indications for these
  tests
• Obtain a history and admit a laboring patient
• Develop teaching skills by developing a short five minute presentation of an obstetrical topic to the third
  year students
• These goals can be discussed with the course director or faculty mentor of the student’s choice at the
  beginning or throughout the rotation as the student perceives their attainment.

Location: Jackson Memorial Hospital (Holtz Center Labor and Delivery fourth floor, Floors 3A and 3B
postpartum, and Ward 7B antepartum, and ACC 4A) (100%)

Participating faculty:
• Director – Gêne Burkett, MD, and other faculty from Maternal Fetal Medicine
• Course coordinator – Tameka Collins (305-585-5586)

Prerequisite:
• Successful completion of the third year OB-GYN clerkship
• An interest in Obstetrics and Gynecology and Women’s Health
• Desire to deepen fund of knowledge and hone procedural skills particular to the specialty

Expectations:
• Complete short presentation for third year students
• Complete a small project (either literature search pertaining to a research topic or presentation of a
  topic of interest) by the end of the rotation
• Meet with the coordinator during the rotation to review the project
• Attend rounds daily
• Attend morning report
• Attend clinic when assigned
• Labor and Delivery Call (minimum 3 calls) as assigned
• Attend resident didactics on Thursdays
• Function as a substitute intern with patient care responsibilities
• Submit a written evaluation of the rotation, faculty and overall educational experience

Student evaluations and grading:
Grading will be Pass/Fail and based on:
• Attendance to assigned activities
• Evaluation from faculty and residents
• Completion of project/presentation

Reviewed January 2015
OBSTETRICS & GYNECOLOGY AMBULATORY ROTATION

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<th>COURSE CODE:</th>
<th>MDR 963</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTORS:</td>
<td>Jorge Garcia, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5160</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jgarcia3@med.miami.edu">jgarcia3@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Tameka Collins; <a href="mailto:tcollins@med.miami.edu">tcollins@med.miami.edu</a>; 305-585-5586</td>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
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<td>PREREQUISITE:</td>
<td>Obstetrics and Gynecology Clerkship</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>U.S VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
The objective is for the student to gain experience in the diagnostic and therapeutic approaches for general obstetric and gynecologic conditions by participating in direct patient care and resident didactic activities. Students will enhance interpersonal skills and professional conduct in the female patient encounter setting. Students will learn the basic ambulatory management of medium and high risk obstetrical patients, the management of ambulatory gynecologic conditions, and prevention and screening in women’s reproductive health. This rotation is ideal for the student considering a career in obstetrics and gynecology as he or she will be exposed to multiple aspects of the field. The rotation will also provide a strong foundation in outpatient women’s reproductive health for those going into internal medicine, family medicine, pediatrics and psychiatry.

Course Design:
During this four week course, the student will see patients in the obstetrical clinic on Mondays and Wednesdays or Tuesdays and Fridays depending on their team placement, and in the Gynecology clinics on Mondays and Wednesdays or Tuesdays and Fridays depending on their team placement. In addition, the student will go to the OR and Labor & Delivery on the days they are not in clinic. The course is split into 2 weeks of GYN and 2 weeks of OB. They will assist Dr. Garcia in seeing colposcopy and LEEP patients on Thursday mornings. Thursday afternoons, they will attend didactic sessions with the residents. The student may also assist in gynecologic consultations and admissions from the emergency room.

Goals/Objectives:
- Perform the complete obstetric and gynecologic history and physical examination, including sexual, contraceptive, and menstrual history
- Counsel patients regarding sexually transmitted infections
- Perform a pap smear, endometrial biopsy, colposcopy, and IUD insertion
- Perform complete contraceptive counseling and provision, including the appropriate use of evidence based resources to guide shared contraceptive decision making,
- Identify the indications for inpatient versus outpatient management and referral for specialty/subspecialty consultation

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• Describe the systematic approach to a female patient with abnormal uterine bleeding, acute and chronic pelvic pain, and pelvic masses, and to understand the appropriate use of medical and surgical management of menorrhagia and pelvic pain
• Demonstrate the complete pre and post operative evaluations required for common gynecologic surgical procedures
• Develop teaching skills by assisting in the orientation of third year students on gynecology and developing a short five minute presentation of a gyn topic to the third year students
• Expand basic gynecologic knowledge through reading materials, case discussions and direct patient care
• Perform literature searches related to clinical questions from the residents and attendings
• Be able to diagnose pregnancy by history, physical exam, and laboratory values
• Know the components of routine antepartum and postpartum care
• Understand the implications of the following conditions for the mother and the fetus:
  • Chronic hypertension
  • Multiple gestation
  • Pre-eclampsia/eclampsia
  • Diabetes mellitus
  • Substance abuse
  • Preterm rupture of membranes and preterm labor
• Know the differential diagnosis for
  • First trimester bleeding
  • Third trimester bleeding
  • Post-partum hemorrhage
• Understand the principles of assessing the effects on the developing fetus of chronic maternal disease, genetic conditions, medications, and environmental exposures
• Interpret fetal heart rate tracings and recognize abnormal patterns
• Participate in the care of patients in active labor and attend cesarean sections

**Location:** JMH (100%)
ACC – West 4A, 4B
Labor & Delivery
JMH OR

**Participating faculty:**
Jorge Garcia, MD

**Prerequisite:**
• Successful completion of the third year OB-GYN clerkship
• An interest in Obstetrics and Gynecology and Women’s Health
• Desire to deepen fund of knowledge and hone procedural skills particular to the specialty

**Expectations:**
• Complete short presentation for third year students
• Complete a small project (either literature search pertaining to a research topic or presentation of a topic of interest), due at the end of the rotation
• Meet with Dr. Garcia during the rotation to review the project
• Attend Grand Rounds weekly
• Attend clinics as assigned
• Attend resident didactics on Thursdays
• Submit a written evaluation of the rotation, faculty and overall educational experience
Student evaluations and grading:
Grading will be Pass/Fail and based on:
- Attendance to assigned activities
- Evaluation from faculty and residents
- Completion of project/presentation

Revised January 2015
OB/GYN BOOT CAMP – TRANSITION TO RESIDENCY

COURSE CODE: MDR 1025
CLERKSHIP DIRECTOR: Christine Curry MD, PhD
TELEPHONE: 305-243-7481
EMAIL: clc95@miami.edu
CONTACT: Tameka Collins; tcollins@med.miami.edu; 305-585-5586
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Completion of Core Clerkships, Senior Capstone Course Preferred
NUMBER OF STUDENTS: 20
AVAILABLE: Block 11A
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: None
TYPE: Clinical

Overview:
The purpose of this course is to allow all M4 students who match in OB/GYN or related residencies to enter their intern year with a solid knowledge base and set of procedural skills related to women’s health, obstetrical care and gynecologic surgery. Participation in the two-week course will allow students to practice procedural and basic surgical skills, enhance their OB/GYN knowledge, and review APGO practice guidelines. This course is intended to consolidate and expand upon skills learned on the core clerkship and OB/GYN M4 electives.

Course Design:
This two week elective is designed to combine didactic, case-based, simulation, procedural and team-based education experiences. Real time self-assessment using the Milestones in OB/GYN will provide students with an understanding of their preparedness for internship. A novel pager exercise will improve communication skills, triaging of patient management and experience with common clinical scenarios.

A sample schedule is provided at the end of this course description (subject to change)

Goals:
- The goal of this course is to ensure students entering a career in OB/GYN have the clinical competencies necessary to be prepared for their first year of residency.
- This course will focus on the American Congress of Obstetrics and Gynecology (ACOG) and Association of Professors of Gynecology and Obstetrics (APGO) milestones and American College of Graduate Medical Education (ACGME) Milestones in Obstetrics and Gynecology Milestones Project.
- The content areas will align with the Association of American Medical Colleges (AAMC) Core Entrustable Professional Activities (EPAs). Three EPAs will be the focus:
  - EPA 2: Prioritize a differential diagnosis following a clinical encounter
  - EPA 9: Collaborate as a member of an interprofessional team
  - EPA 10: Recognize a patient requiring urgent or emergent care and initiate evaluation and management

Objectives:
• Introduce MS4 students to internship roles and general responsibilities
• Consolidate and solidify fundamental skills and knowledge relevant to an internship in OB/GYN
• Expand upon core experiences in anatomy, surgical procedures, office procedures and emergent case management in like with APGO resident milestones
• Evaluate the course through pre- and post-surveys
• Complete self-assessments based on APGO milestones

Location:
• CRB Departmental Conference Room
• Holtz Building Departmental Conference Room
• Holtz Building Labor and Delivery Suites, Operating Suites
• Rosenstiel Medical Science Building, Classrooms

Participating Faculty:
• Core faculty: Christine Curry MD PhD
• Supporting faculty: Jorge Garcia MD, Carlos Medina MD
• Elective Coordinator: Tameka Collins

Prerequisite:
• Completion of all core clerkships
• Completion of the Senior Capstone Course – Transition to Residency is preferred and recommended

Expectations:
• Attend and participate in all classes and skills sessions during the two-week program
• Complete a written evaluation at the end of the course

Student Evaluation and Grading:
Grading will be Pass/Fail and based on:
• Attendance to and participation in assigned activities
• Completion of pre-course and post-course knowledge evaluation
• Completion of written evaluation of the course

Created August 2015
REPRODUCTIVE HEALTH

COURSE CODE: MDR 858
CLERKSHIP DIRECTOR: Karla Maguire, M.D.
TELEPHONE: 305-585-5160
EMAIL: KMaguire@med.miami.edu
CONTACT: Tameka Collins; tcollins@med.miami.edu; 305-585-5586
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: Obstetrics and Gynecology Clerkship
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
The objectives are for the student to improve knowledge and skills in managing contraceptive cases that are routine and also highly complex and to learn about pregnancy options including surgical and medical abortion techniques. The student should become proficient in recognizing and managing the complications arising from contraception and abortion. Participation in the 4 week course will allow the introduction of other material including sexual assault, addiction and other issues of reproductive health.

Course Design:
• During this two or four week course, the student will rotate through the UM reproductive Health Clinic with Drs. Norris, and Estes The student will observe counseling of patients involving pregnancy options, abortion counseling, patient selection and anesthesia available for surgical abortions, the procedure for abortions and postoperative care for these patients. The student will assist in managing contraception in both the normal and complicated patients. The student will interact extensively with Drs. Norris and Estes and Ob/Gyn residents.
• During this rotation, the student will also have the opportunity to generate research on contraception or abortion. This may involve a literature search of a selected topic or participation in an ongoing research project. At the culmination of the course, the student will present the findings to Dr. Norris and Estes. This presentation will be available for future students enrolled in the Reproductive Health rotation.

Goals/Objectives:
• Understand the options for unplanned pregnancy
• Perform complete contraceptive counseling and provision, including the appropriate use of evidence based resources to guide shared contraceptive decision making,
• Identify the indications for medical versus surgical abortion
• Identify complications arising from abortion and contraception
• Expand basic reproductive health through reading materials, case discussions and direct and observed patient care

Location:
• Reproductive Health Clinic at University of Miami Hospital West Buiding, Suite 201 (100%)
Participating faculty:
Dr. Christopher Estes
Clerkship coordinator - Tameka Collins; 305-585-5586

Prerequisite:
- Successful completion of the third year OB-GYN clerkship
- An interest in Obstetrics and Gynecology and Women’s Health
- Desire to deepen fund of knowledge and hone procedural skills particular to the specialty

Expectations:
- Complete a small project (either literature search pertaining to a research topic or presentation of a topic of interest), due at the end of the rotation
- Meet with the coordinator during the rotation to review the project
- Attend assigned clinics
- Submit a written evaluation of the rotation, faculty and overall educational experience
- Attend Grand Rounds on Thursday mornings

Student evaluations and grading:
Grading will be Pass/Fail and based on:
- Attendance to assigned activities
- Evaluation from faculty
- Completion of project/presentation

Reviewed January 2014
REPRODUCTIVE ENDOCRINOLOGY & INFERTILITY

COURSE CODE: MDR 952
CLERKSHIP DIRECTOR: George Attia, M.D.
TELEPHONE: 305-243-8642
EMAIL: GAttia@med.miami.edu
CONTACT: Tameka Collins; tcollins@med.miami.edu; 305-585-5586
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Completion of Core Clerkships
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
This rotation will provide you with the unique opportunity to learn about the subspecialty of reproductive endocrinology and infertility. During this rotation student will learn the basics of menstrual cycle, hormonal regulation and different causes of infertility. Students will be exposed to a wide variety of endocrinological disorders such as amenorrhea, polycystic ovarian syndromes, thyroid dysfunction, and hyperprolactinemia. Opportunity will be given to attend and observe the different techniques of advanced reproductive technology, including in vitro fertilization, intracytoplasmic sperm injection, and intrauterine insemination. You will also be able to scrub-in and observe a wide variety of endoscopic surgeries.

Course Design:
Students will follow the assigned physician during their rotation. This will include:
- Seeing private patients with the attending physician at UMH office
- Students will be encouraged to scrub on surgical cases and be present during the different stages of in vitro fertilization and intra-uterine insemination.
- Students will be encouraged to attend the OB/GYN Department Grand round every Thursday morning and residents academic day on Thursday afternoon
- Student will be asked to prepare a case report on a case or condition they observed during their REI rotation and present it to assigned attending physician

Goals/Objectives:
This rotation will provide you with unique opportunity to learn about the subspecialty of reproductive endocrinology and infertility. During this rotation student will
- Understand the basics of menstrual cycle and hormonal regulation
- Appreciate different causes of infertility, basic work up and basic treatment options
- Understand the basics for wide variety of endocrinological disorders such amenorrhea, polycystic ovarian syndromes, thyroid dysfunction, and hyperprolactinemia.
- Attend and observe different techniques of advanced reproductive technology, including in vitro fertilization, intracytoplasmic sperm injection, and intrauterine insemination.
- Scrub and observe a wide variety of endoscopic surgeries.

Location: UMH, Suite 5 (100%)
Prerequisite:
Students must have completed the OB/GYN core clerkship.

Expectations:
Student will be required to attend private office hours and Monday reproductive endocrinology and infertility clinic at University of Miami Hospital. Student will also be involved in some aspects of research taking place in the Division.

Student must attend weekly departmental Grand Rounds on Thursday mornings.

Student evaluations and grading:
The faculty will use a written evaluation comparable to the one used by other sub-specialties at the OB/GYN Department to evaluate students’ clinical skills,

NO CREDIT WILL BE GIVEN FOR THE COURSE UNLESS YOUR EVALUATION IS ON FILE

Reviewed January 2015
ULTRASOUND IN GYNECOLOGY AND OBSTETRICS

COURSE CODE: MDR 800
CLERKSHIP DIRECTOR: Ryan Longman, MD
TELEPHONE: 305-585-5586
EMAIL: rel27@miami.edu
CONTACT: Tameka Collins; tcollins@med.miami.edu 305-585-5586
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: Obstetrics and Gynecology Clerkship
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
This rotation is an intensive experience with the faculty of the Division of Ultrasound in the Department of Obstetrics and Gynecology. It is geared for students interested in the fields of Obstetrics and Gynecology, Radiology and/or General Surgery. The emphasis of the rotation is on the use of ultrasound as a diagnostic and therapeutic tool in women’s health. The student will observe and participate in diagnostic ultrasound for gynecologic problems, routine and complicated obstetrics, and ultrasound guided procedures for gynecologic and obstetrical indications. This will be complemented by time in the operating room for general gynecologic surgery and on labor and delivery. Students are expected to display a high level of intellectual curiosity and perform as a self motivated learner. For students with an interest in Obstetrics and Gynecology or Radiology there may be opportunities to become involved with research with the attending physicians.

Course Design:
- Monday: OB/GYN Ultrasound at PAC
- Tuesday: OB/GYN Ultrasound at PAC
- Wednesday: OB/GYN Ultrasound at PAC
- Thursday: OB/GYN Ultrasound at PAC
- Friday: OB/GYN Ultrasound at PAC

Goals:
- By the end of this rotation, students will be able to:
  - Discuss the indications for diagnostic gynecologic ultrasound and ultrasound guided procedures
  - Describe the techniques utilized for ultrasound guided procedures
  - Define the routine schedule for obstetrical ultrasounds in the normal, healthy patient
  - Discuss the use of ultrasound for monitoring abnormal pregnancies

Objectives:
- By the end of the this rotation, each student will have:
  - Assist/perform at least 12 gynecologic ultrasounds
  - Assist/perform at least 4 gynecologic ultrasound procedures including the following:
    - Sonohysterogram
- Assist/perform at least 4 routine obstetrical ultrasounds in each trimester of pregnancy
- Assist/perform at least 4 biophysical profiles

**Location:**
- PAC (100%)

**Participating Faculty:**
- Dr. Ryan Longman (coordinator)
- Dr. Richard Strassberg
- Dr. Freddy Montero
- Dr. Usha Verma

**Prerequisite:**
- Obstetrics and Gynecology Clerkship

**Expectations:**
- Students are expected to be self motivated learners with an interest in the fields of Obstetrics and Gynecology, Radiology and/or General Surgery
- Students will be active participants in procedures
- Interested students may become involved in research projects with course faculty (optional)

**Student Evaluation and Grading:**
- Students will be evaluated by the faculty members noted above
- The course is Pass/Fail

Revised January 2015
UROGYNECOLOGY SUB-INTERNSHIP
(Listed under both Obstetrics & Gynecology and Urology)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 955</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Carlos Medina, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5160, 305-243-3115</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cmedina@med.miami.edu">cmedina@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Tameka Collins; <a href="mailto:tcollins@med.miami.edu">tcollins@med.miami.edu</a>; 305-585-5586</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of Core Clerkships</td>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical, and research, if desired</td>
</tr>
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NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
The objective of this sub-internship is to improve the students’ knowledge and skills in evaluating and managing women with pelvic organ prolapse (POP) and urinary incontinence. The student will develop an understanding of pelvic anatomy, become familiar with surgical principles and develop proficiency in evaluating and recognizing the various types of POP, urinary incontinence and voiding disorders. Student participating in the sub-internship will also become familiar with the surgical management of POP and urinary incontinence, and have greater exposure to other common types of pelvic floor dysfunction such as; fecal incontinence, constipation, urinary tract infections, bladder and pelvic pain, urethral diverticulum, and sexual dysfunction.

Course Design:
This course may be taken as a four week rotation in the University of Miami Division of Female Pelvic Medicine and Reconstructive Surgery (Urogynecology). The rotation will take place at University of Miami Hospital, Jackson Memorial Hospital and Kendall Medical Center. The student will become familiar with the clinical setting and learn to evaluate patients with POP, urinary incontinence, fecal incontinence, voiding dysfunction, pelvic pain and sexual dysfunction. The student is expected to attend urogynecology clinic and evaluate patients under the supervision of the chief resident, urogynecology fellow and attending physician. The student will become familiar with the non-surgical and surgical treatments of these conditions and will learn to counsel patients regarding choice of treatment, preoperative evaluations and postoperative course. The student will have hands-on experience with basic office procedures, urodynamic studies and pessary fitting. The student is expected to scrub and assist in surgical cases (students in a four week rotation will be instructed in basic surgical techniques that will include opening and closing the abdomen and knot tying).

There will be several scheduled lectures and discussions with Dr. Medina on pelvic anatomy, pathophysiology of POP and urinary incontinence, urodynamic testing and overall management of pelvic floor dysfunction. Students will be required to do a literature search on a selected topic and present the topic at the end of the rotation. During this period of time the student will also have the opportunity to be involved in research.
## Schedule

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<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td><strong>Urogynecology Clinic</strong></td>
<td>9am to 5 pm at UMH Suite 3</td>
<td>9:30am - 4pm, Kendall Medical Center</td>
<td></td>
<td>Hialeah clinic 9:30 am to 4 pm (2nd Friday of each month)</td>
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<tr>
<td><strong>Operating Room</strong></td>
<td>7:30am-5pm</td>
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<td>8:30 am- 5pm</td>
<td>10 am – 4 pm (as needed)</td>
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<tr>
<td>(Surgical Experience)</td>
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<tr>
<td><strong>Cystoscopy Clinic</strong></td>
<td></td>
<td>Kendall (during clinic)</td>
<td>8:30 am to 12 noon – 2nd Thursday (suite 201)</td>
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<tr>
<td><strong>Urodynamic Laboratory</strong></td>
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<td></td>
<td>Optional Once during rotation</td>
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<tr>
<td><strong>Case presentation</strong></td>
<td>12 noon (UMH suite 4113)</td>
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<tr>
<td>and preoperative meetings</td>
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<tr>
<td><strong>Topic and Lecture</strong></td>
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<td></td>
<td></td>
<td>12 noon (UMH suite 4113)</td>
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<tr>
<td><strong>Ward rounds</strong></td>
<td>None</td>
<td>7:00am-8am</td>
<td>7:00am-8am</td>
<td>8:00am- 8:30 am</td>
<td>8:00 am</td>
</tr>
<tr>
<td><strong>Reading/Research time</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8am-10am</td>
</tr>
</tbody>
</table>

### Goals:

1. Describe the surgical anatomy of the pelvic floor including genital, urinary, and colorectal elements to provide patient care, under appropriate supervision, as assigned by the training program director or his/her designee, consistent with the educational goals of the program and the highest standards of patient care ("patient care" includes responsibility for associated documentation in the medical record, which should be completed in a timely fashion, and attendance at patient care rounds as assigned)

2. To make appropriate use of the available supervisory and support systems, seeking advice and input from the attending staff physician/s when and as appropriate, and in accordance with the Resident Supervision and Teaching Standards of the Health System;

3. To participate fully in the educational and scholarly activities of the training program as specified by the training program director, including attendance at didactic conferences and other responsibilities which may include a research project, completion of examinations, maintenance of procedure logs or other items

4. To develop a personal program of learning to foster continued professional growth, with guidance from the teaching staff

### Objectives:

1. Explain the normal anatomic supports and support mechanisms of the vagina, rectum, bladder, urethra and uterus.

2. Discuss normal and abnormal lower urinary tract, colorectal and vaginal function.

3. Discuss the differential diagnosis of urinary and anal incontinence, including the pathophysiology and the specific risk factors contributing to the most prevalent types of incontinence.

4. Summarize the normal functions of the lower urinary tract during filling and voiding phases, and the mechanisms of urinary incontinence.
5. Obtain a specific urological history, describe and employ standard terminology related to the problem investigated, as well as evaluate the severity of the symptoms and impact these symptoms have on the patient’s overall wellbeing.

6. Perform a direct physical evaluation, specifically a thorough pelvic evaluation utilizing appropriate diagnostic techniques to elicit probable causes for the incontinence and be able to characterize the major types of urinary incontinence.

7. Describe the indications for urodynamic testing, the various components, and be able to interpret the results.

8. Characterize various types of voiding disorders.

9. Discuss non-surgical therapeutic modalities to treat urinary incontinence.

10. Define the most common surgical procedures utilized to treat urinary incontinence and understand their indications, contraindications.

11. Perform a specific pelvic evaluation utilizing appropriate diagnostic techniques to evaluate pelvic organ prolapse utilizing primarily the POP-Q system.

12. Differentiate between selected tests to characterize lower urinary tract disorders [residual urine, Q-tip testing, simple cystometry, Puff questionnaire, and Potassium Sensitivity test].

13. Describe the most common surgical procedures utilized to treat pelvic organ prolapse.

14. Obtain a specific history to evaluate fecal incontinence, perform a direct physical evaluation and select necessary diagnostic tests to evaluate the condition.

15. Describe the following conditions: vesicovaginal fistula, rectovaginal fistula, urethral diverticulum, urethritis, urethral syndrome, and interstitial cystitis.


The student will accomplish the objectives and goals of the rotation by the following:

1. Assigned readings (text material provided)
2. Specific literature search
3. Lectures and case discussions with Dr. Medina (UMH Suite 4113)
4. Active participation in ward rounds (UMH 11N)
5. Clinic experience (UMH and Kendal Medical Center)
6. Cystoscopy clinic (UMH and KMC Urodynamic Lab)
7. Urodynamic studies (KMC – Urodynamic Lab)
8. Surgical experience (UM/JMH/Sylvester Cancer Center)

Location:
- Jackson Memorial Hospital (20%-40%)
- UMH (40%-60%)
- Kendal Medical Center (20%)

Participating faculty:
Dr. Medina (offices in Holtz Center 7007, phone number 305-585-5160, office at UMH Suite 4113, phone number 305-243-3115); secretary – Mayra Cespedes 305-585-5160 or 305-243-3115; coordinator – Tameka Collins, phone number 305-585-5586.

Prerequisite:
Completion of Core Clerkships. (Preferably a student with strong interest in OB/GYN or surgery)

Expectations:
1. Complete assigned readings
2. Complete assigned literature search and presentation
3. Attend scheduled lectures and meetings (present cases and actively participate in discussions)
4. Attend ward rounds (evaluate patients)
5. Attend clinics and evaluate patients
6. Attend scheduled surgical cases (observe and assist)
7. Function as a member of the urogynecology team (responsibilities)
8. Expected to meet the goals of the rotation by fulfilling the learning objectives
9. Attend Grand Rounds on Thursday mornings unless excused by Dr. Medina

**Student evaluations and grading:**
Grading will be pass/fail based on:
- Attendance at all scheduled sessions
- Motivation and involvement in patient evaluation and management
- Case presentations
- Review of literature on GYN-GU topics

There will be no written examinations. Students will be assessed on their general understanding of the subject (from a specific list of topics), ability to evaluate clinical cases, surgical experience and topic presentations.

Revised January 2014
RMC INTERDISCIPLINARY WOMEN’S HEALTH ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1016</th>
</tr>
</thead>
</table>
| CLERKSHIP DIRECTOR: | Beth-Ann Lesnikoski, MD, FACS  
  [beth.lesnikoski@hcahealthcare.com, 561-548-8600] |
| TELEPHONE: | 561-886-1202 |
| EMAIL: | jsollecito@med.miami.edu |
| CONTACT: | Joseph Sollecito, jsollecito@med.miami.edu, 561-886-1202 |
| LENGTH OF ELECTIVE: | 4 weeks |
| PREREQUISITE: | OB/GYN, Radiology and Surgery Clerkships |
| NUMBER OF STUDENTS: | 2 |
| AVAILABLE: | All except 1B, 4B, 5A, 5B and 7B |
| U.S. VISITING STUDENTS: | Yes |
| INTERVIEWING TIME: | 2 days (4wks), with prior approval |
| TYPE: | Clinical |

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
- Students will be exposed to all aspects of women’s health, both benign and malignant disease.
- This rotation is suitable for students considering careers in Primary Care, OB/GYN, GYN Oncology, Breast Surgery, General Surgery or Surgical Oncology.

Course Design:
- Students will spend time in the office setting with a busy OB/GYN practice, breast surgery office practice and Women’s Imaging.
- Students will attend breast and gynecologic surgeries, with emphasis on continuity of care for patients that they see in the office.
- A one week block in the rotation will be devoted to Women’s Imaging.
- Students will attend Breast Interdisciplinary Conference weekly.
- Students will choose a topic of interest in first week of rotation, and develop a presentation for the final week of the rotation.

Goals/Objectives:
Students will enhance their knowledge of women’s health issues gained on 3rd year clinical rotations and understand the communication and interplay of multiple disciplines in making management decisions for patients. Students will have exposure to patients with the following concerns:

- Annual check-ups and PAP smears
- Birth control and family planning
- Benign & Malignant Diseases of the female reproductive tract
- Sexuality and sexual dysfunction
- Osteoporosis, diagnosis and treatment
- Menopause
- Cancer prevention and treatment
• Premenstrual Syndrome
• Pelvic pain
• Infertility
• Incontinence

Diagnostic/Surgical Procedures:

• Minimally invasive techniques, such as laparoscopy and laser
• Tubal ligation and endometrial ablation
• In-office ultrasound
• Gynecologic surgery for benign and malignant conditions
• In-office Colposcopy
• In-office LEEP procedure for cervical abnormalities
• Surgical and non-surgical treatments for incontinence
• In-office urodynamic testing
• Mammography and bone density evaluations
• Robotic surgery for hysterectomy and myomectomy

Education/Counseling:

• Contraception
• Depression
• Menopause
• Preventative Health

In addition, students will have dedicated time to learn about common radiographic procedures such as mammography and breast ultrasound.

Location:
JFK Medical Center Inpatient and Outpatient settings, and a nearby gynecologic office (1/2 mile off campus).

Participating Faculty:
• Dr. Beth-Ann Lesnikoski, MD, FACS; Breast Surgeon
• Samuel Lederman MD, FACOG and members of his group; OB/GYN
• Angela Savino, MD, FACR & Noa Beck MD, FACR; Radiologists

Prerequisite:
• OB/GYN, Radiology and Surgery Clerkships

Expectations:
They will do the initial history and present the history to the attending prior to performing a joint physical exam. Students will be able to develop a differential diagnosis and treatment plan. Students should begin to develop a holistic approach to patient care, understanding that most patients do not make health care decisions in a vacuum, but do so with respect to their family, work, and overall environment. Students will attend surgeries and be prepared with an understanding of relevant surgical anatomy and aspects of planned surgical procedure. Students will develop an understanding of post-treatment outcomes and the impact on patient’s quality of life. Students will develop an understanding the risks, benefits, and controversies of basic screening tools such as PAP smears and screening mammography.

Student Evaluation and Grading:
• The medical student will receive a written evaluation at the end of the month.
• **Pass/Fail** dependent upon attendance, participation, professionalism, clinical skills, and assigned presentations.
• Attendance is mandatory for all assigned conferences and clinical activities.

Reviewed January 2015
RMC INTERDISCIPLINARY WOMEN’S ONCOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1017</th>
</tr>
</thead>
</table>
| CLERKSHIP DIRECTOR: | Beth-Ann Lesnikoski, MD, FACS  
|                  | beth.lesnikoski@hcahealthcare.com, 561-548-8600 |
| TELEPHONE:       | 561-886-1202 |
| EMAIL:           | jsollecito@med.miami.edu |
| CONTACT:         | Joseph Sollecito, jsollecito@med.miami.edu, 561-886-1202 |
| LENGTH OF ELECTIVE: | 4 weeks |
| PREREQUISITE:    | OB/GYN, Radiology, and Surgery Clerkships |
| NUMBER OF STUDENTS: | 2 |
| AVAILABLE:       | All except 1B, 4B, 5A, 5B and 7B |
| U.S. VISITING STUDENTS: | Yes |
| INTERVIEWING TIME: | 2 days (4wks) with prior approval |
| TYPE:            | Clinical |

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
- Students will be exposed to all aspects of women’s oncology, including breast, ovarian and other women’s cancers, including patients with genetic risk of breast or ovarian cancer.
- Suitable for students considering careers in Primary Care, OB/GYN, GYN Oncology, Breast Surgery, General Surgery or Surgical Oncology.

Course Design:
- Students will spend time in office setting with gynecologic oncology, medical oncology, radiation oncology, breast surgery and women’s imaging in both the community and the academic setting.
- Students will attend breast and gynecologic surgeries, with emphasis on continuity of care for patients that they see in the office.
- Students will attend radiation treatment sessions.
- A one week block of the rotation will be devoted to medical oncology and radiation oncology and imaging in the academic setting.
- Students will be exposed to Women’s Imaging in the continuum of their patient’s care.
- Students will attend Breast Interdisciplinary Conference weekly.
- Students will choose a topic of interest in first week of rotation, and develop a presentation for the final week of the rotation.

Goals:
Students will gain experience and knowledge of women’s oncology.
Students will be exposed to procedures such as:
- Total and Partial Breast Mastectomy
- Breast Conserving Surgery
- Sentinel Lymph Node Biopsy
- Axillary Node Dissection
- Oncolplastic Breast Surgery
• In-office Breast Biopsies
• In-office Breast Ultrasound
• Genetic Testing
• Oncotype Testing
• Breast Cancer Risk Assessment and Survivorship
• Intraoperative radiation, Cyberknife and external beam modalities. Students will spend time with both radiation oncologists and physicists.

Objectives:
• The rotation is a preceptor experience.

Location:
• The Breast Institute JFK Medical Center
• The Comprehensive Cancer Institute at JFKMC
• JFKMC

Participating Faculty:
• Beth-Ann Lesnikoski, MD; Breast Surgeon
• Antonella Leary, MD; GYN Oncologist, JFKMC
• Georges Hatoum, MD; Radiation Oncologist, JFKMC
• Laura Freedman, MD; Radiation Oncologist, Sylvester Deerfield
• Talya Schwarzberg, MD & Abe Schwarzberg, MD; Medical Oncologists, JFKMC
• Muhamed Jahanzeb MD, Reshma Mahtani, DO, & Charles Vogel, MD; Medical Oncologists, Sylvester
• Angela Savino, MD & Noa Beck MD; Radiologists, JFKMC
• Monica Yepes, MD; Radiologist, Sylvester

Prerequisite:
• OB/GYN, Radiology and Surgery Clerkships

Expectations:
Students will do an initial history and present the history to the attending prior to performing a joint physical exam. Students will be able to develop a differential diagnosis and treatment plan. Students should begin to develop a holistic approach to patient care, understanding that most patients do not make health care decisions in a vacuum, but do so with respect to their family, work, and overall environment. Students will attend surgeries and be prepared with an understanding of relevant surgical anatomy and aspects of planned surgical procedure. Students will attend radiation treatment sessions and chemotherapy infusions with their patients. Students will develop an understanding of post-treatment outcomes and impact on patient’s quality of life. Students will develop an understanding of palliative care and survivorship.

Student Evaluation and Grading:
• The medical student will receive a written evaluation at the end of the month.
• Pass/Fail dependent upon attendance, participation, professionalism, clinical skills, and assigned presentations.
• Attendance is mandatory for all assigned conferences and clinical activities.

Reviewed January 2015
OPHTHALMOLOGY

NOTE: ANY schedule changes involving ALL Ophthalmology rotations, must be authorized by Isabel Perez before your schedule can be officially changed.
OPHTHALMIC PATHOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 971</th>
</tr>
</thead>
</table>
| CLERKSHIP DIRECTOR:| Sander Dubovy, M.D.  
Alicia Cabrera (Lab Director) |
| TELEPHONE:         | 305-326-6312 |
| EMAIL:             | irperez@med.miami.edu |
| CONTACT:           | Isabel R. Perez [ABLEH] |
| LENGTH OF ELECTIVE:| 4 weeks |
| PREREQUISITE:      | None |
| NUMBER OF STUDENTS:| 1 |
| AVAILABLE:         | All Year |
| U.S VISITING STUDENTS: | Yes |
| INTERVIEWING TIME:  | 2 days (4wks), with prior approval |
| TYPE:              | Clinical |

NOTE: ANY schedule changes involving ALL Ophthalmology rotations must be authorized by Isabel Perez (see above for contact information) before your schedule can be officially changed.

Overview/Course Design:
Students will review cases received in the lab, participate in weekly teaching sessions at the multi-headed microscope and participate in the complete work-up of these pathologic specimens. The observer will learn how ocular structure and function are affected by the major ocular diseases through the study of current and teaching slide sets of pathologic specimens. The students will learn how to examine ocular specimens using a microscope and learn the value of ancillary techniques to include immunohistochemistry and molecular studies. It is expected that they will have a functional vocabulary of ophthalmic terms, a working knowledge of ocular anatomy, and a rational approach to eye disease at the completion of this course. Clinical-pathologic correlation and therapy will be emphasized.

Goals/Objectives:
The goals of the ophthalmic pathology elective are to acquire a basic understanding of the pathology of diseases of the eye commonly presented to the pathologist, to become acquainted with the gross and microscopic findings of common ocular diseases, and to become acquainted with the role of the pathologist in evaluating ophthalmic pathology specimens.

Location: The Bascom Palmer Eye Institute

Participating Faculty:
Dr. Sander Dubovy, Residents and Fellows from the Department of Ophthalmology at the Bascom Palmer Eye Institute

Prerequisite: None

Expectations:
- Students will attend ophthalmic pathology gross and microscopic sessions. Additionally, the student will study slides in the ophthalmic pathology study set, take responsibility for adding current interesting cases to the study set, and do reading in the area of ophthalmic pathology.
- The student is expected to attend various departmental conferences during the week.
Student Grading and Evaluation:
Students will be evaluated (pass/fail) by their attendance and participation in the clinical setting. A test to review slides will be administered at the end of the rotation.

Report at 7:30 a.m. to the Bascom Palmer Eye Institute, 2nd floor Conference Room.

Reviewed January 2015
OPHTHALMOLOGY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Chrisfouad Alabiad, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-326-6312</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:CALabiad@med.miami.edu">CALabiad@med.miami.edu</a>; <a href="mailto:irperez@med.miami.edu">irperez@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Isabel R. Perez</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks (4 weeks with approval – see below)</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>8 (minimum of 5)</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>2A (/2B), 3A (/3B), 4A (/4B), 5A (/5B), 8B (/9A)</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
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NOTE: ANY schedule changes involving ALL Ophthalmology rotations must be authorized by Isabel Perez (see above for contact information) before your schedule can be officially changed.

Overview/Course Design:
The two week clinical elective in ophthalmology is geared toward medical students with a particular interest in obtaining an in depth understanding of fundamental ophthalmology (geared for every student regardless of specialty interest). Aspects of ophthalmology that are pertinent to the practice of internal medicine, neurology, pediatrics, family practice and other primary care specialties will also be taught. Students will rotate through the emergency room, operating room, and various subspecialty clinics at the Bascom Palmer Eye Institute where they will shadow attendings and housestaff. A comprehensive didactic course will be conducted concurrently during this two week block which includes interactive case based presentations. A final examination will be administered at the conclusion of the course. Students are also welcome to attend weekly grand rounds and fluorescein conferences as well as daily resident lectures during the rotation.

An additional two weeks is offered for students considering ophthalmology as a career. All students wishing to be part of the four week course must have approval of the course coordinator. These additional two weeks are set up as a preceptorship and may be arranged independently with a faculty ophthalmologist.

Goals/Objectives:
Students will learn how to perform a basic eye exam and gain competence using ophthalmic instruments. Students will be exposed to and participate in the care of patients with eye disorders.

Upon completion of this elective, the students will be able to:
- Differentiate indicators of when to refer patients to an ophthalmologist
- Perform an orderly eye examination, including proper use of the ophthalmoscope and different lenses.
- Evaluate ancillary ocular tests abnormalities (Visual fields, OCT…)
- Evaluate pupillary abnormalities.
- Learn the management of common ocular problems and emergencies (conjunctivitis, superficial foreign body, chemical burns, trauma, etc.).
- Examine a patient with red eye and initiate management when appropriate.
- Discuss types of cataracts
- Detect and describe disorders of ocular motility and describe prevention and treatment of amblyopia.
- Recognize different types of glaucoma – risk factors and management (medications/laser/surgery)
- Identify retinal pathology: retinal detachment, age-related macular degeneration and uveitis
k. Be familiar with ocular changes in diabetes mellitus, hypertension, and optic neuropathy
l. Demonstrate a professional and systematic approach in working with a patient with an ocular injury.
m. Use the indirect ophthalmoscope, 90 D lens and 20D lens to evaluate the optic nerve and retina
n. Use the slit lamp to examine the cornea and anterior segment of the eye

Location
The Bascom Palmer Eye Institute

Participating Faculty
Faculty from the Department of Ophthalmology at the BPEI and the VA Hospital

Prerequisite:
None

Expectations:
Lectures are held daily and lecture and clinic attendance is mandatory. Students are required to spend time in the general ophthalmology, subspecialty, and emergency care clinics and to observe different surgery procedures including at least one intraocular procedure (cataract, glaucoma or retinal surgery) and an extraocular procedure (strabismus, orbit, or eyelid surgery).

The students are encouraged to attend our daily Residents Morning lectures, Grand Rounds (Thursdays: Jose Berrocal Auditorium) and the Fluorescein angiography conference (Tuesdays Jose Berrocal Auditorium). Professionalism as mandated by the School of Medicine is expected.

Student evaluations and grading:
Evaluation is ongoing during the two weeks. The final evaluation by the coordinator is based on final written exam, presentation of case studies, feedback from instructors, performance in the clinic, and attendance.

Report at 7:30 a.m. to the Bascom Palmer Eye Institute, 2nd floor Conference Room.

Revised January 2015
OPHTHALMOLOGY FOR THE NON-OPHTHALMOLOGIST

COURSE CODE: MDR 970
CLERKSHIP DIRECTOR: Chrisfouad Alabiad, M.D.
TELEPHONE: 305-326-6312
EMAIL: calabiad@med.miami.edu; irperez@med.miami.edu
CONTACT: Isabel R. Perez [ABLEH]
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Completion of Core Clerkships
NUMBER OF STUDENTS: 3
AVAILABLE: 8A, 9B, and 10B
U.S VISITING STUDENTS: No
INTERVIEWING TIME: 1 day (2wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Ophthalmology rotations must be authorized by Isabel Perez (see above for contact information) before your schedule can be officially changed.

Overview/Course Design:
The two week clinical elective in ophthalmology is geared toward fourth year medical students with an interest in obtaining a basic understanding of fundamental ophthalmology for students NOT pursuing a career in ophthalmology. Aspects of ophthalmology that are pertinent to the practice of internal medicine, neurology, pediatrics, family practice and other primary care specialties will also be taught. Students will rotate through the emergency room, operating room, and various subspecialty clinics at the Bascom Palmer Eye Institute where they will shadow attendings and housestaff. Students will be required to keep a patient log and will be expected to complete an online course. A case presentation session based on the patient pathology seen throughout the course will take place at the end of the rotation. Students are also welcome to attend weekly grand rounds and fluorescein conferences as well as daily resident lectures during the rotation.

Goals/Objectives:
Students will learn how to perform a basic eye exam and gain competence using ophthalmic instruments. Students will be exposed to and participate in the care of patients with eye disorders.

Upon completion of this elective our students will:
  a. Acquire the diagnostic skills to evaluate common eye conditions
  b. Possess the knowledge and skills necessary to manage common ocular problems and emergencies (conjunctivitis, superficial foreign body, chemical burns, trauma, etc.).
  c. Be able to identify those ophthalmologic conditions that require consultation and referral.
  d. Perform an orderly eye examination, including proper use of the ophthalmoscope and different lenses.
  e. Become familiar with different ophthalmology subspecialties: Glaucoma, Retina, Cornea, Oculoplastics and Neuro-ophthalmology.

Location
The Bascom Palmer Eye Institute

Participating Faculty
Faculty from the Department of Ophthalmology at the BPEI and the VA Hospital
Prerequisite:
Completion of all the Core Clerkships.
University of Miami Fourth year medical students (no exceptions).

Expectations:
Students are required to observe surgical procedures and to spend time in the general ophthalmology, subspecialty, and emergency care clinics. Students are also required to complete an online course [http://www.aao.org/theeyeshaveit/](http://www.aao.org/theeyeshaveit/) (please print quiz results at the end of each question block to receive credit) and to keep a patient log. At the end of the rotation they will participate in a case discussion session based on the patient pathology kept in their logs.

Student evaluations and grading:
Evaluation is ongoing during the two weeks. The final evaluation by the coordinator is based on presentation of case studies, feedback from instructors, performance in the clinic, and attendance.

Report at 7:30 a.m. to the Bascom Palmer Eye Institute, 2nd floor Conference Room.

Reviewed January 2015
OPHTHALMOLOGY @ BPEI / NAPLES

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 802</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Jaclyn L. Kovach, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>239-659-3937</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jkovach@med.miami.edu">jkovach@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jaclyn L. Kovach, MD, Isabel R. Perez <a href="mailto:irperez@med.miami.edu">irperez@med.miami.edu</a> 305-326-6312</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None. Email to clerkship director required 2 weeks prior to starting</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year, EXCEPT Blocks 1B, 6A, 6B, 11B</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
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<td>TYPE:</td>
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**NOTE:** ANY schedule changes involving ALL Ophthalmology rotations must be authorized by Isabel Perez (see above for contact information) before your schedule can be officially changed.

**Overview / Course Design:**
The primary goal of this elective is to provide medical students with a basic understanding of fundamental ophthalmology. Aspects of Ophthalmology that are pertinent to the practice of Internal Medicine, Neurology, Family Practice, and other primary care specialties will also be taught. Emphasis is placed on the ocular exam and findings related to common eye pathology such as conjunctivitis, cataracts, glaucoma, macular degeneration, retinal vascular occlusion, and diabetic retinopathy. Some exposure to more unusual cases in ophthalmology as a subspecialty will be obtained in clinics. Didactic sessions and patient care in clinics with attending faculty, and coordinated self-teaching make up the majority of the elective. Students will also have the ability to go to the OR to observe ophthalmic surgery. Opportunity to assist faculty in writeup of case reports will also be available for the students considering ophthalmology as a career goal.

**Goals / Objectives:**
Students will be exposed to and participate in the care of patients with eye disorders.

**Location:**
Bascom Palmer Eye Institute at Naples. Note, funding is not available for housing. The student will be responsible for their housing. Discount rates are available from nearby hotels. Information is available from Dr. Kovach.

**Participating Faculty:** Students will be exposed to several faculty members during their rotation

**Prerequisite:** None. Email to Dr. Kovach required 2 weeks prior to starting rotation.

**Expectations:** Students are expected to attend clinics and observe ophthalmic operations in the OR.

**Student Evaluation and Grading:**
Students will be evaluated (pass/fail) by their attendance and participation in the clinical setting.

Revised January 2015
OPHTHALMOLOGY AT VAMC

COURSE CODE: MDR 861
CLERKSHIP DIRECTOR: Anat Galor, MD
TELEPHONE: 305-324-4455 ext 4178
CONTACT: Isabel R. Perez 305-326-6312
BPEI, 900 N.W. 17th Street, Suite 269
EMAIL: Irperez@med.miami.edu
LENGTH OF ELECTIVE: 2 / 4 weeks
PREREQUISITE: None, Email to clerkship coordinator
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Ophthalmology rotations must be authorized by Isabel Perez (see above for contact information) before your schedule can be officially changed.

Goals/Objectives:
- To provide medical students the opportunity to shadow residents and attendings in the clinic and emergency room setting, and thereby become familiar with instrumentation utilized in standard eye examinations.
- To provide medical students the opportunity to watch ophthalmic surgery (cataract surgery, glaucoma surgery, retinal surgery) to provide initial exposure to microsurgical techniques.

Prerequisite:
- None

Course Design:
- Students will spend 50% of their time in the ophthalmology clinic (clinic 4 at the VA eye clinic) and 50% of their time observing ophthalmic surgery (both at the VA and at Bascom Palmer). In addition, students will have the opportunity to shadow residents in the Bascom Palmer ER.

Participating Faculty:
- Students will be exposed to a variety of faculty members and resident’s during their rotation

Expectations:
- Students are expected to attend clinics and observe ophthalmic operations in the OR.
- Students are expected to attend grand rounds.
- Students are expected to give one presentation to Dr. Galor.

Student Evaluation and Grading:
- Students will be evaluated (pass/fail) by their attendance and participation in the clinical setting.

Revised January 2015
OPHTHALMOLOGY @ BPEI / PALM BEACH GARDENS

<table>
<thead>
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<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Krishna Kishor, MD <a href="mailto:kishor@med.miami.edu">kishor@med.miami.edu</a> Administrative assistant Patty Martely <a href="mailto:p.martely@med.miami.edu">p.martely@med.miami.edu</a></td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-326-6312</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:irperez@med.miami.edu">irperez@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Isabel R. Perez</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Email to clerkship director</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year EXCEPT Blocks 5A &amp; 11B</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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NOTE: ANY schedule changes involving ALL Ophthalmology rotations must be authorized by Isabel Perez (see above for contact information) before your schedule can be officially changed.

Overview / Course Design:
The primary goal of this elective is to familiarize the student with general concepts of Ophthalmology, and how to conduct a basic eye examination. Aspects of Ophthalmology that are pertinent to the practice of Internal Medicine, Neurology, Family Practice, and other primary care specialities will also be taught. Emphasis is placed on the ocular exam and findings related to common eye pathology such as cataracts, glaucoma, macular degeneration, diabetic retinopathy, and conjunctivitis. Some exposure to more unusual cases to ophthalmology as a subspeciality will be obtained in clinics. Didactic sessions with attending faculty, patient care with fellows in the clinics and coordinated self teaching make up the majority of the elective. Students will also have the ability to go to the OR to observe ophthalmic surgery. Opportunity to assist faculty in writeup of case reports will also be available for the students considering ophthalmology as a career goal.

Goals / Objectives:
Students will be exposed to and participate in the care of patients with eye disorders.

Location:
Bascom Palmer Eye Institute at Palm Beach Gardens

Participating Faculty:
Students will be exposed to a variety of faculty members and fellows during their rotation

Prerequisite:
Email to the course coordinator

Expectations:
Students are expected to attend clinics and observe ophthalmic operations in the OR.

Student Evaluation and Grading:
Students will be evaluated (pass/fail) by their attendance and participation in the clinical setting.
ORTHOPAEDICS

NOTE: ANY schedule changes involving ALL Orthopedics rotations, must be authorized by Viveka Spivey before your schedule can be officially changed.
ADULT ORTHOPEDIC TRAUMA ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Gregory Zych, D.O.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1315</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:orthoapp@med.miami.edu">orthoapp@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Viveka Spivey / Carmen Fuente [Rehab Bldg Rm. 303]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>6 months of core clerkships including Surgery</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2 total between MDR 862 &amp; MDR 863</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year (Only students applying to ORTHO approved from June-Dec)</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
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<td>TYPE:</td>
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NOTE: ANY schedule changes involving ALL Orthopedic Surgery rotations must be authorized by Viveka Spivey or Carmen Fuente (see above for contact information) before your schedule can be officially changed.

NOTE: Scheduling from June thru December is limited to students applying to Orthopedics only.

Overview/Course Design:
The student will participate in the management of traumatic injuries of the musculoskeletal system, excluding hand, and spine. The participation will be directed to acquiring an adequate history and physical examination and management of trauma through conservative and surgical approaches. The student will be asked to assist in the operating room to learn surgical skills, how to set up traction and to do closed reductions with cast applications.

Goals/Objectives:
Students will be exposed to and participate in the care of patients with traumatic injuries of the musculoskeletal system.

Prerequisite:
Students must have completed 6 months of core clerkships including surgery prior to signing up for this elective.

Location:
The student will spend 100% of their time at Jackson Memorial Hospital.

Expectations:
The student is required to attend the morning rounds and all conferences related to the Trauma Service as well as the clinics. All students will be required to take Ortho E.R. call with the PGY2 resident.

Student evaluations and grading:
- Reliability and Promptness
- Initiative
- Judgment
- Ability to perform an accurate orthopedic history and physical
- Ability to apply knowledge in clinical setting
- Ability to relate to patients
- Ability to relate to peers and staff
- Professionalism

Report at 6:45 a.m. to the first year (PGY2) Ortho Trauma Resident JMH beeper 2175

Reviewed January 2015
ADULT ORTHOPEDIC TRAUMA SUB-I

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 863</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Gregory Zych, D.O.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1315</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:orthoapp@med.miami.edu">orthoapp@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Viveka Spivey / Carmen Fuente [Rehab Bldg Rm. 303]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2 total between MDR 862 &amp; MDR 863</td>
</tr>
<tr>
<td>AVAILABLE:</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>No</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
</tr>
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<td>TYPE:</td>
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</tbody>
</table>

**NOTE:** ANY schedule changes involving ALL Orthopedic Surgery rotations must be authorized by Viveka Spivey or Carmen Fuente (see above for contact information) before your schedule can be officially changed.

**NOTE:** Scheduling from June thru December is limited to students applying to Orthopedics only.

**Overview/Course Design:**
The student will participate in the management of traumatic injuries of the musculoskeletal system, excluding hand, and spine. The participation will be directed to acquiring an adequate history and physical examination and management of trauma through conservative and surgical approaches. The student will be asked to assist in the operating room to learn surgical skills, how to set up traction and to do closed reductions with cast applications.

**Goals/Objectives:**
Students will be exposed to and participate in the care of patients with traumatic injuries of the musculoskeletal system.

**Prerequisite:**
Students must have completed all core clerkships.

**Location:**
The student will spend 100% of their time at Jackson Memorial Hospital.

**Expectations:**
The student is required to attend the morning rounds and all conferences related to the Trauma Service as well as the clinics. All students will be required to take Ortho E.R. call with the PGY2 resident.

**Student evaluations and grading:**
- Reliability and Promptness
- Initiative
- Judgment
- Ability to perform an accurate orthopedic history and physical
- Ability to apply knowledge in clinical setting
- Quality of differential diagnostic reasoning
- Quality of patient follow-up and progress notes
- Interpretation of lab and diagnostic imaging tests
- Ability to relate to patients
- Ability to relate to peers and staff
- Professionalism

Report at 6:45 a.m. to the first year (PGY2) Ortho Trauma Resident JMH beeper 2175

Revised January 2015
HAND SURGERY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 866</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Patrick Owens, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1315</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:orthoapp@med.miami.edu">orthoapp@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Viveka Spivey / Carmen Fuente [Rehab Bldg Rm. 303]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Must have completed 6 months of core clerkships including Surgery</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year (Only students applying to ORTHO approved from June-Dec)</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
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</table>

**NOTE:** ANY schedule changes involving ALL Orthopedic Surgery rotations must be authorized by Viveka Spivey or Carmen Fuente (see above for contact information) before your schedule can be officially changed.

**NOTE:** Scheduling from June thru December is limited to students applying to Orthopedics only.

**Overview/Course Design:**
The student will be provided with the opportunity to become familiar with acute injuries, chronic conditions and congenital deformities of the hand. They will learn to take a history and do a physical examination of the hand, as well as assist in the conservative and surgical management of hand problems. The student will be expected to attend rounds, clinics, surgery and conferences, both hand and general orthopedic conferences. All Students will be required to take Ortho E.R. call with the PGY2 on the hand service.

**Goals/Objectives:**
Students will be exposed to and participate in the care of patients with acute, chronic or congenital disorders of the hand.

**Prerequisite:**
Students must have completed 6 months of core clerkships including the surgery clerkship prior to signing up for this elective.

**Location:**
The student will spend 50% of their time at Jackson Memorial Hospital and 50% of their time at Bascom Palmer Eye Hospital.

**Student evaluations and grading:**
Students rotating through the Department of Orthopaedic Surgery will be evaluated on a pass/fail basis. They will be evaluated by either a faculty member or the most senior level resident on the service with whom the student has had the most contact.

Evaluation: Students will be evaluated on the following:
- Reliability and Promptness
- Initiative
• Judgment
• Ability to perform an accurate orthopaedic history and physical
• Ability to apply knowledge in clinical setting
• Ability to relate to patients
• Ability to relate to peers and staff
• Professionalism

Report at 6:45 a.m. to the first year Ortho Hand resident, JMH beeper 2182

Revised January 2015
MUSCULOSKELETAL ONCOLOGY SERVICE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Sheila Conway, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1315</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:orthoapp@med.miami.edu">orthoapp@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Viveka Spivey / Carmen Fuente [Rehab Bldg Rm. 303]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>NUMBER OF STUDENT:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year (Only students applying to ORTHO approved from June-Dec)</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
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<td>TYPE:</td>
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**NOTE:** ANY schedule changes involving ALL Orthopedic Surgery rotations must be authorized by Viveka Spivey or Carmen Fuente (see above for contact information) before your schedule can be officially changed.

**NOTE:** Scheduling from June thru December is limited to students applying to Orthopedics only.

**Overview/Course Design:**
Students on the orthopedic oncology service are expected to become familiar with the principles of staging and diagnosing tumors of bone and soft tissue. The student will evaluate patients in the outpatient and inpatient setting and be responsible for the management of these patients pre- and post-operatively with close resident and attending supervision. The student will develop history and physical examination skills, as they pertain to oncologic patients, as well as actively participate in their non-operative and operative management. The student will participate in the regular educational conferences including a bi-weekly didactic orthopaedic oncology case-based conference, a weekly multidisciplinary oncology conference, and a weekly pre-operative planning conference. There are a number of potential research projects, both clinical and laboratory, that are available to interested investigators. Dr. Conway is the Program Director and member of the Orthopedic Residency Selection Committee.

**Goals/Objectives:**
Students will be exposed to and participate in the care of patients with tumors of bone and soft tissue.

**Prerequisite:**
Completion of all core clerkships.

**Location:**
The student will send 30% of their time at Jackson Memorial Hospital and 70% of their time at UMH. Students must get processed at UMH prior to start of the rotation. Contact course coordinator.

**Student evaluations and grading:**
Evaluation: Students will be evaluated pass/fail by the attending or senior resident on service using the UMMMSM evaluation form. Evaluation will be based on the following:
- Reliability and Promptness
- Initiative
• Judgment
• Ability to perform an accurate orthopaedic history and physical
• Ability to apply knowledge in clinical setting
• Ability to relate to patients
• Ability to relate to peers and staff
• Professionalism

Reviewed January 2015
SPINE SERVICE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Frank Eismont, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1315</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:orthoapp@med.miami.edu">orthoapp@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Viveka Spivey / Carmen Fuente [Rehab Bldg Rm. 303]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Must have completed 6 months of core clerkships including Surgery</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year (Only students applying to ORTHO approved from June-Dec)</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
</tr>
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<td>TYPE:</td>
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</tr>
</tbody>
</table>

NOTE: ANY schedule changes involving ALL Orthopedic Surgery rotations must be authorized by Viveka Spivey or Carmen Fuente (see above for contact information) before your schedule can be officially changed.

NOTE: Scheduling from June thru December is limited to students applying to Orthopedics only.

Overview/Course Design:
This rotation provides exposure to traumatic and degenerative affections of the spine. Students will participate in all rounds, clinics, and conferences.

Goals/Objectives:
Students will be exposed to and participate in the care of patients with traumatic and degenerative disorders of the spine.

Prerequisite:
Students must have completed 6 months of core clerkships including the surgery clerkship prior to signing up for this elective.

Expectations:
Students will be pre-assigned a spine topic which they will be expected to present, with appropriate hand-outs, at the weekly spine didactic conference. All students will be required to take Ortho ER call with the PGY2 resident.

Location:
The student will send a 50% of their time at JMH and 50% of their time at UMH. Students must get processed at UMH prior to the start of the rotation. Contact the course coordinator for processing.

Student evaluations and grading:
Evaluation: Students will be evaluated pass/fail by the attending or senior resident on service using the UMMSM evaluation form. Evaluation will be based on the following:
- Reliability and Promptness
- Initiative
- Judgment
- Ability to perform an accurate orthopaedic history and physical
- Ability to apply knowledge in clinical setting
- Ability to relate to patients
- Ability to relate to peers and staff
- Professionalism

Report at 6:30 a.m. to the first year Ortho Spine resident, JMH beeper 2184

Revised January 2015
## SPORTS MEDICINE ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Michael Baraga, MD and Lee Kaplan, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1315</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:orthoapp@med.miami.edu">orthoapp@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Viveka Spivey / Carmen Fuente (Rehab Bldg., Room 303)</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>6 months of core clerkships including Surgery</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

### NOTE: ANY schedule changes involving ALL Orthopedic Surgery rotations must be authorized by Viveka Spivey or Carmen Fuente (see above for contact information) before your schedule can be officially changed.

### Overview:
This rotation offers the student exposure to sports-related injuries of the musculoskeletal system. Multiple arthroscopic procedures of the shoulder, knee, elbow, and ankle are performed on the service. There will also be exposure to the management of acute concussion. The student will be exposed to a wide variety of these procedures as well their clinical presentation and postoperative management. The student will be expected to become an active participant on the team. Opportunities for research are available if a particular student is interested.

### Course Design:
Students will learn to perform a thorough musculoskeletal exam. They will assist in sports medicine clinics and in the operating room. They will participate in rounds as needed, as well as participation in weekly didactic conferences. Other activities may include assignment of a specific topic and/or journal article(s) for presentation to the team.

### Goals:
After completing the rotation, the students will be able to describe the basic physical examination, diagnosis, pathophysiology, and radiologic diagnosis of common sports-related injuries. They will also be able to discuss treatment options and basic surgical principles.

### Objectives:
By actively participating in outpatient clinics twice weekly, surgery 2-3 times per week and conference twice weekly, the student will be exposed to sufficient clinical and academic materials to achieve these goals. Conferences will consist of journal club, weekly sports medicine conference, and didactic lectures.

### Location:
The student will send 20% of their time at Jackson Memorial Hospital and 80% of their time at UMH. Students must get processed at UMH prior to the start of the rotation. Contact the course coordinator for processing.
Participating Faculty:
The two supervising faculty members are Dr. Lee Kaplan and Dr. Michael Baraga; however, students will also be supervised by the senior residents on the service.

Prerequisite:
Students must have completed 6 months of core clerkships including the surgery clerkship prior to signing up for this elective.

Expectations:
Taking call is not expected; however, those students interested in orthopaedic surgery as a career are strongly recommended to take trauma call at Jackson Memorial when the ortho PGY2 on this service is on call.

Student Evaluation and Grading:
Students will be graded as Pass/Fail by one of the attendings or the chief resident on the service using the UMMSM evaluation form.

The evaluations will be based on the following: reliability, promptness, initiative, judgment, ability to perform an accurate history and physical, ability to apply knowledge in a clinical setting, ability to relate to peers, patients, and staff, and professionalism.

On the first day of the rotation students should report at 6:45am to the PGY2 sports medicine resident, beeper 305-483-7226.

Revised January 2015
RMC ORTHOPEDIC SURGERY ELECTIVE (SHOULDER)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1000</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Ryan Simovitch, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Surgery Clerkship</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
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<td>AVAILABLE:</td>
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<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
This is a 2 or 4 week elective intended to expose the senior medical student to a comprehensive experience in orthopedic shoulder surgery. During the 2 or 4 week rotation, the student will spend approximately 50% of the time in an office clinical setting evaluating patients with shoulder disorders and 50% of the time in the operating room gaining surgical experience and insight. The surgical experience will be 60% arthroscopic shoulder surgery and 40% open shoulder surgery. The elective will be spent under the direction of one surgeon. There will be on-call responsibilities though not burdensome. For those students interested in a 4 week elective, there will be clinical outcomes research opportunities, and the opportunity to work with other orthopedic specialists within the group.

Course Design:
The student will spend time operating at Jupiter Medical Center on Monday and Tuesday Mornings. In this setting, students will have a chance to participate in open shoulder surgery including shoulder replacements and shoulder fracture repair. The student will spend time operating at Jupiter Outpatient Surgery Center on Thursdays observing arthroscopic rotator cuff and shoulder instability repair. Monday and Tuesday afternoons will involve seeing patients in an outpatient setting at the Palm Beach Orthopaedic Institute Jupiter, FL office. Students will see patients in an outpatient setting at the Palm Beach Orthopaedic Institute Palm Beach Gardens, FL and West Palm Beach, FL offices on Wednesday and Friday, respectively. At the Palm Beach Orthopaedic Institute offices, the students will see patients in consultation and discuss them with Dr. Simovitch, learning the clinical evaluation and work-up of patients with complex shoulder disorders. Each week there will be a 30 minute review of a specific shoulder topic as well as a journal review.

Goals:
A. Gain an understanding of shoulder anatomy and its relationship to the development of various shoulder disorders.
B. Review and apply principles of pathophysiology, anatomy, patient examination and radiology examinations as they relate to the diagnosis and treatment of shoulder disorders.
C. Familiarize the student with efficient patient history taking and examination as it relates to shoulder disorders.
D. Familiarize the student with the principles of non-operative treatment of shoulder disorders including the process of choosing physical therapy protocols.
E. Familiarize the student with shoulder arthroscopy.
   a. Understand the indications for these procedures
   b. Understand the risks involved with these procedures
   c. Understand the principles of these procedures
   d. Observe arthroscopy
F. Familiarize the student with shoulder arthroplasty.
Objectives:

A. The medical student will be expected to be familiar with the basic evaluation and management of the following disorders:
   a. Rotator Cuff Tears
   b. Shoulder Impingement
   c. Labral Tears
   d. Glenohumeral Joint Dislocations
   e. Acromioclavicular dislocations
   f. Clavicle fractures
   g. Proximal humerus fractures

B. The medical student will be expected to be familiar with the principles of evidence based medicine and the basic principles of clinical outcomes research.

C. These conditions and their treatment will be learned through didactic teaching. Resources will be provided for learning the basics of these conditions. The student will be expected to acquire a basic understanding through self-study as well.

Location:
Palm Beach Orthopaedic Institute (50%), Jupiter medical Center 25%, Jupiter Outpatient Surgery Center (25%)

Participating Faculty: Ryan Simovitch, M.D.

Prerequisite: Completion of Integrated Surgery clerkship

Expectations:
The student will be expected to participate in all activities (consultations (routine and on-call), rounds, clinics, procedures). The student will be expected to be on time for all activities or give advance notice of absence. The student will be expected to demonstrate professionalism. The student will be expected to dress appropriately and wear a lab coat. The student will be expected to properly introduce themselves to every patient and health care provider they come in contact with. The student will be expected to obey all HIPPA regulations.

Student Evaluation and Grading:
There will be two aspects to student evaluation. At the conclusion of the rotation, the student will be expected to present a patient evaluation to the attending physician and show a core competency. At the conclusion of the rotation, there will be a 20 question written test to assess the student's acquisition of a core competency of knowledge regarding the diagnosis and treatment of shoulder disorders. The medical student will receive a written evaluation at the end of the rotation. Based on this evaluation as well as demonstration of professionalism throughout the rotation, the student will receive a pass or fail. The student will be asked to complete an evaluation of the rotation and attending as well.

Reviewed January 2015
OTOLARYNGOLOGY
OTOLOGY (Clinical)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 871</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Adrien Eshraghi, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6466</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:JMDunn@med.miami.edu">JMDunn@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jenine Dunn</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Otolaryngology Elective or Sub-I</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>U.S VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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<tr>
<td>TYPE:</td>
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</table>

Overview:
Otolaryngology is the surgical sub-specialty of hearing, balance, skull base and cochlear implant surgery, and facial nerve dysfunction.

Course Design:
During this rotation, the senior clerk will have the opportunity to participate in the clinical evaluation, auditory and vestibular testing, medical and surgical treatment of disorders of the ear and facial nerve. The rotation will be split into three portions: clinic, operating room, and didactic sessions. Hands on anatomical dissection of the temporal bone and preparation of a clinical Grand Rounds presentation are included.

Goals/Objectives:
Students will be exposed to and participate in the medical and surgical care of patients with ear and facial nerve disorders.

Location: Clinical Research Building Clinic (50%); JMH (25%); ABLEH (25%)

Prerequisite: Otolaryngology Elective or Sub-I

Reviewed January 2015
OTOLARYNGOLOGY

COURSE CODE: MDR 873
CLERKSHIP DIRECTOR: Lisa Grunebaum, MD
TELEPHONE: 305-243-6466
EMAIL: JMDunn@med.miami.edu
CONTACT: Jenine Dunn
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S VISITING STUDENTS: NO
INTERVIEWING TIME: 1 day (2wks), with prior approval
TYPE: Clinical

Overview:
This rotation gives an overview of the scope of activities covered by Otolaryngology. Students are expected to get exposed to both clinical and surgical aspects of Otolaryngology and explore the variety of different subspecialties within this field. Students are encouraged to start if possible with this course before taking MDR875.

Course Design:
Students will be assigned to subspecialty teams on a daily basis, with a custom made schedule for each student to maximize the educational experience and ensure good exposure to various clinical and surgical aspects of Otolaryngology. Hospital activities include inpatient rounds and surgeries under the supervision of residents, fellows and attending physicians. Participation in surgical procedures is encouraged beyond simple observation, with the condition of being prepared for the specific cases performed. When assigned to a subspecialty team, the student is expected to contact the team ahead of time to be prepared to participate. Students are also assigned to clinics under the supervision of clinical instructors and attending physicians. Students are expected to attend grand rounds on Thursday morning and are encouraged to attend subspecialty didactic meetings (Tumor board and thyroid cancer conference, Skull base weekly conference, journal clubs, neuroradiology conference, coclia review, in-service review). Students are not required to participate in night and weekend call duties but they are welcome to do so if interested.

Goal:
The goal of this course is to offer a first broad exposure to Otolaryngology for medical students interested in learning about the specialty, through direct participation in clinical activities and didactic sessions. Students are expected to understand the scope of conditions and diseases covered by Otolaryngology and develop interest and knowledge in basic sciences as well clinical, technical and surgical aspects of the specialty.

Objectives:
1- Describe Otolaryngology as a specialty and recognize its different subspecialties (Rhinology, Laryngology, Head and Neck, Otology, Facial plastics, Pediatric otolaryngology, Sleep surgery, Skull base surgery etc) and related disciplines (Audiology, Speech pathology etc).
2- Acquire basic skills for problem focused history and clinical examination for common Otolaryngologic complaints.
3- Initiate diagnostic workup and management for common Otolaryngologic complaints.
4- Demonstrate the ability to work as member in a team of healthcare providers.
5- Learn and apply the basic principles of surgery relevant to Otolaryngologic procedures.
6- Deepen the knowledge about head and neck anatomy, physiology and pathology.

**Location:** possible locations are as follows: JMH (30%), UMH (30%, SCCC (20%), CRB (10%), and BPEI (10%) - the exact distribution of time depends on individual attending case load and student interest during the clerkship period.

**Participating faculty:**
Students will be directly supervised by residents, fellows, clinical instructors and attending faculty members of the department of Otolaryngology.

**Prerequisite:** None

**Expectations:**
Students are required to contact the clerkship coordinator the week before starting the rotation to get their schedule and clerkship documents.

Students are expected to actively participate in the activities of the medical team or clinic they are assigned to on a daily basis. It is the student’s responsibility to contact the team or the clinic to make sure activities are as scheduled. In case of emergencies and unanticipated cancellations, students are expected to adjust their schedule to optimize their educational experience. This is done with subspecialty teams, faculty members and/or clinical clerkship coordinator who are always available to assist.

Students are expected to attend Thursday morning’s grand rounds (CRB 9th floor 7:45 am) and are encouraged to attend subspecialty didactic sessions.

Students are expected to adopt professional behavior throughout the rotation and abide by the rules and regulations of the environment they rotate in.

An Otolaryngology booklet for medical students will be provided at the beginning of the rotation and will serve as a pocket reference and reading material. Students are encouraged to read on a daily basis about conditions/diseases encountered during the rotation and will be provided guidance by the supervising physicians for level appropriate references.

**Student evaluations and grading:**
Rotation performance will be assessed through evaluations from residents, fellows, clinical instructors, faculty members and ancillary clinic staff. Attendance and participation to different activities will be documented on a sheet signed daily by the supervising physician. Students are encouraged to meet with the clinical clerkship coordinator before or early on during the rotation to discuss the goal and objectives, as well as at the end of the rotation to give and get feedback.

Reviewed January 2015
OTOLARYNGOLOGY (Subinternship) [TYPE B]

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 875</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Lisa Grunebaum, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6466</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:JMDunn@med.miami.edu">JMDunn@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jenine Dunn</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of Core Clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

Overview:
This rotation is a clinical and surgical Otolaryngology clerkship. Students are expected to get involved in both clinical and surgical aspects of Otolaryngology. Students are encouraged to start if possible with MDR873 before taking this course.

Course Design:
Students will be assigned to subspecialty teams on a daily basis, with custom made schedule for each student to maximize the educational experience and ensure good exposure to various clinical and surgical aspects of Otolaryngology.

The four week rotation is usually subdivided as follows:
- one week on head and neck
- one week on general / rhinology / laryngology
- one week on plastics / pediatrics
- one week on neurotology

Students who take MDR871 or MDR873 either before or after may request to have their schedule modified for more exposure to as many different aspects of Otolaryngology as possible, with prior approval from the clerkship coordinator.

Hospital activities include inpatient rounds and surgeries under the supervision of residents, fellows and attending physicians. Participation in surgical procedures is encouraged beyond simple observation, with the condition of being prepared for the specific cases performed. When assigned to a subspecialty team, the student is expected to contact the team ahead of time to be prepared to participate. Students are also assigned to clinics under the supervision of clinical instructors and attending physicians. Students are expected to attend grand rounds on Thursday morning and are strongly encouraged to attend subspecialty didactic meetings (Tumor board and thyroid cancer conference, Skull base weekly conference, journal clubs, neuroradiology conference, coccia review, in-service review). Students are not required to participate in night and weekend call duties but they are welcome to do so if interested.

Goal:
The goal of this course is to offer interested medical students the opportunity to participate in the care of Otolaryngology patients, through clinical activities and didactic sessions. Students are expected to deepen their interest and fund of knowledge in basic sciences as well clinical, technical and surgical aspects of the specialty.
Objectives:
1. Recognize Otolaryngology and its different subspecialties and related disciplines.
2. Facilitate patient care through active participation in team approach management of Otolaryngologic patients.
3. Acquire basic skills for comprehensive history and clinical examination for common Otolaryngologic complaints.
4. Formulate diagnostic workup and management for common Otolaryngologic complaints.
5. Interpret commonly used diagnostic tests including hearing / vestibular tests, fiberoptic evaluations, imaging studies, etc.
6. Facilitate preoperative, surgical and post operative care of patients undergoing otolaryngologic procedures.
7. Deepen the knowledge about head and neck anatomy, physiology and pathology.

Location: possible locations are as follows: JMH (30%), UMH (30%), SCCC (20%), CRB (10%), and BPEI (10%) - the exact distribution of time depends on individual attending case load and student interest during the clerkship period.

Prerequisite: Completion of Core Clerkships

Participating faculty:
Students will be directly supervised by residents, fellows, clinical instructors and attending faculty members of the department of Otolaryngology.

Expectations:
Students are required to contact the clerkship coordinator the week before starting the rotation to get their schedule and clerkship documents. Students are expected to actively participate at the level of an intern in the activities of the medical team or clinic they are assigned to on a daily basis. It is the student’s responsibility to contact the team or the clinic to make sure activities are as scheduled. In case of emergencies and unanticipated cancellations, students are expected to adjust their schedule to optimize their educational experience. This is done with subspecialty teams, faculty members and/or clinical clerkship coordinator who are always available to assist. Students are expected to attend Thursday morning’s grand rounds (CRB 9th floor 7:45 am) and are encouraged to attend subspecialty didactic sessions. While there is no specific code of conduct, students are expected to adopt professional behavior throughout the rotation and abide to the rules and regulations of the environment they rotate in. There is no assigned reading material. An Otolaryngology booklet for medical students will be provided at the beginning of the rotation and will serve as a pocket reference and reading material. Students are encouraged to read on a daily basis about conditions/diseases encountered during the rotation and will be provided guidance by the supervising physicians for level appropriate references.

Student evaluations and grading:
Rotation performance will be assessed through evaluations from residents, fellows, clinical instructors, faculty members and ancillary clinic staff. Attendance and participation to different activities will be documented on a sheet signed daily by the supervising physician. Students are strongly encouraged to meet with the clinical clerkship coordinator before or early on during the rotation to discuss the goal and objectives, as well as at the end of the rotation to give and get feedback.

Reviewed January 2015
**RMC PEDIATRIC OTOLARYNGOLOGY**
(Listed under both Otolaryngology and Pediatrics)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1002</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTORS:</td>
<td>Zorik Spektor, MD, FAAP</td>
</tr>
<tr>
<td></td>
<td>David J. Kay, MD, MPH, FAAP</td>
</tr>
<tr>
<td></td>
<td>David L. Mandell, MD, FAAP, FACS</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-736-8141</td>
</tr>
<tr>
<td>EMAIL:</td>
<td>XXX</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Core Surgery and Core Pediatrics</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>All Year</td>
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<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

*Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.*

**Overview:**

1. This clinical elective will expose students to the subspecialty of Pediatric Otolaryngology—Head and Neck Surgery.
   i) Students will have the opportunity to learn by seeing patients in our private office as well as assisting in the operating room

2. This elective is designed with two different types student interests in mind, and will be individually tailored to the individual students' interests
   i) PRIMARY CARE TRACK
      (1) For students interested in entering medical fields with a primary focus on treating children
          (a) E.g. Pediatrics, Family Practice, etc.
      (2) Students will learn evidence-based medical management of acute and chronic problems of the ears, nose, and throat in children
      (3) Students will hone their diagnostic skills in pediatric otoscopy, rhinoscopy, and throat examinations with direct feedback
      (4) Student will be exposed to common Pediatric ENT surgical procedures, so they can understand firsthand exactly what they involve
   ii) SURGICAL SPECIALTY TRACK
      (1) For students interested in becoming Otolaryngologists, or other related surgical fields
          (a) E.g. pediatric surgery, neurosurgery, ophthalmology, plastic and craniofacial surgery, neuroradiology
      (2) Students will complete all the objectives of the Primary Care Track
      (3) Students will be exposed to surgical decision making and the criteria for medical vs. surgical management of Pediatric ENT disorders
      (4) Students will experience performing pre-operative work-up and post-operative management of surgical cases
      (5) Students will assist in more complicated Pediatric ENT surgical procedures
(6) Students will have the option of performing inpatient Pediatric ENT consultations

**Course Design:**

1. Students will be exposed to the practice of pediatric otolaryngology, including
   i) The medical management of patients in the clinic/office
   ii) The surgical management of patients in the operating room

2. Schedule for the ten-day course
   i) PRIMARY CARE TRACK
      (1) Students will spend 2-3 mornings a week in the operating room, watching routine surgeries, and learning about their indications, alternatives, risks, benefits and complications
      (2) Students will spend the remaining mornings and every afternoon in the office, examining and treating patients, with a focus on the most common pediatric otolaryngology conditions
      (3) Students will spend one half day with the pediatric audiologist, learning about the various modalities of pediatric hearing evaluation
   ii) SURGICAL SPECIALTY TRACK
      (1) Students will spend every morning in the operating room, assigned to the attending performing the most interesting cases of the day
      (2) Students will be hands-on in the operating whenever they can; however, in the interest of patient safety, the majority of the surgical training will be observational
      (3) Students will spend every afternoon in the office, examining and treating patients, with a focus on the most complicated pediatric otolaryngology cases
      (4) Students will spend one half day with the pediatric audiologist, learning about the various modalities of pediatric hearing evaluation
      (5) Students will have the option of rounding with the attending seeing hospital consults in the evening and weekends (definitely not required; just available if there is a strong interest)

**Goals/Objectives:**

1. The goals of this course are to:
   i) PRIMARY CARE TRACK
      (1) Familiarize students with treatments for pediatric ear, nose, and throat disorders
      (2) Improve students' accuracy and validity of their pediatric ear physical examinations
      (3) Familiarize student with pediatric audiologic testing
   ii) SURGICAL SPECIALTY TRACK
      (1) All the above, plus
      (2) Familiarize students with functional pediatric otolaryngology
      (3) Introduce students to pediatric otolaryngology surgical procedures

2. After this elective, the student should be able to:
   i) PRIMARY CARE TRACK
      (1) Understand the medical treatments for recurrent acute and chronic otitis media and for acute and chronically draining ears
      (2) Distinguish between otitis media and otitis externa on physical examination
      (3) Distinguish between conductive and sensorineural hearing loss, and understand the implications on diagnostic and therapeutic interventions
      (4) Understand the indications for tympanostomy tube placement
      (5) Distinguish allergic from infectious sinonasal disease based on history and physical exam
      (6) Understand the medical treatment algorithm for rhinosinusitis in children
      (7) Distinguish obstructive sleep apnea from primary snoring based on history, and appreciate the role and results of pediatric polysomnography
      (8) Understand the indications for tonsillectomy and adenoidectomy
      (9) Recognize the signs and symptoms of stridor
      (10) Recognize abnormal findings in the pediatric head and neck examination as distinct from normal variants
   ii) SURGICAL SPECIALTY TRACK
(1) All the above, plus become introduced to evaluation of and the surgical treatment algorithm and/or management for the above conditions.
(2) Appreciate the roles and techniques of pediatric sinus endoscopy, nasopharyngoscopy, and laryngoscopy
(3) Understand the anatomy of the pediatric larynx and its implications for phono-aero-digestive disorders
(4) Have the opportunity to participate in a clinical research project
   (a) May extend beyond the timeframe of the elective itself

Location:
1. All patients will be seen at the Center for Pediatric ENT—Head and Neck Surgery
   i) Located in Bethesda Health City in Boynton Beach, Palm Beach County
2. The majority of the surgeries will occur at the following facilities
   i) Bethesda Outpatient Surgery Center
   ii) Bethesda Memorial Hospital
   iii) West Boca Medical Center

Participating Faculty:
- Zorik Spektor, MD, FAAP
- David J. Kay, MD, MPH, FAAP
- David L. Mandell, MD, FAAP, FACS
- All are board-certified fellowship-trained pediatric otolaryngologists

Prerequisite: Core Surgery and Core Pediatrics

Expectations:
- What are the expectations for the student? Be specific

Student Evaluation and Grading:
1. The participating faculty will subjectively evaluate the students.
2. Grading will be pass/fail based on
   i) Attendance
   ii) Motivation
   iii) Ability to apply learned information to new patient encounters

Reviewed January 2015
PATHOLOGY
# PATHOLOGY ELECTIVE AT MT. SINAI

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 878</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Robert J. Poppiti, Jr., M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-674-2277</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:luisa.cruz@msmc.com">luisa.cruz@msmc.com</a>; <a href="mailto:robert.poppiti@msmc.com">robert.poppiti@msmc.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Luisa Cruz</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
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<tr>
<td>AVAILABLE:</td>
<td>All Year, EXCEPT blocks 7B, 8A/B, and 9A</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

Please contact a minimum of two weeks before the start of the rotation to complete hospital specific orientation requirements. Please contact Italia Smith in the Mt. Sinai Medical Education Office at ismith@msmc.org.

**Overview/Course Design:**
The Department of Pathology at Mount Sinai Medical Center offers an elective in either clinical or anatomic pathology. The program will be tailored to the particular interest and level of training of the individual. The student will be supervised by staff pathologists working with the resident staff and participate in inter-and intradepartmental conferences.

**Goals/Objectives:**
Students will be exposed to the various disciplines in pathology not only to enhance their fund of knowledge but also to experience the practice of pathology as a possible career choice.

**Location:** Mt. Sinai Medical Center (100%)

**Prerequisite:** None

Please report at 9:00am to:

Mt. Sinai Medical Center  
Office of Medical Education  
De Hirsch Meyer Tower, Main Bldg. Suite #2065  
4300 Alton Road  
Miami Beach, Florida 33140

Revised January 2015
PATHOLOGY

COURSE CODE: MDR 879
CLERKSHIP DIRECTOR: Carol K. Petito, M.D.
TELEPHONE: 305-585-8970
EMAIL: cpetito@med.miami.edu
CONTACT: Carol K. Petito, MD [JMH, Holtz Ctr. #2044, R-5]
LENGTH OF ELECTIVE: 2 / 4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 2
AVAILABLE: All year, EXCEPT Blocks 1A and 12B
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

Overview: This elective is geared towards students who wish to explore Pathology as a career option or who seek to better understand and utilize clinical and anatomic pathology services in their clinical practice. Students select week-long rotations from the list below and attend all Pathology Teaching Conferences and rounds. Anatomic Pathology rotations are at JMH or UMH and Clinical Pathology rotations are at JMH.

This elective in Pathology may be taken as a two- or four-week rotation.

Course Design:
General:
Students will attend all teaching conferences at 12:00 pm as well as conferences pertaining to the specific rotations. When feasible, students also should attend the daily Consensus Conference at 1:15 pm. Students will attend one autopsy, obtaining the clinical history under the direction of the pathology resident.

Mandatory 12:00 noon teaching conferences:
- Daily Teaching Conferences (Tuesday, Wednesday, Friday)
- Anatomic/Clinical Pathology case conference (Monday)
- Pathology Grand Rounds and Journal Clubs (Thursdays).

Anatomic Pathology
2 week rotations: One or two students work in the frozen section laboratory at UMH or at JMH under the direct supervision of the FS resident. Students will use the hospital’s EMR to access clinical history, lab data and prior pathology reports on the day’s operative cases for which FS are likely, assist the pathology resident in grossing and pull up the appropriate imaging studies on the FS computer. Students will utilize teaching slide sets of normal histology to compare with the patient’s biopsy material.

Four week elective: Students will select one of surgical pathology subspeciality and participate in grossing, previewing and case signout, working closely with the assigned pathology resident.

Clinical Pathology
Two week electives: Students are assigned to Hematology/hematopathology or Transfusion Medicine/blood banking. Under the direction of the pathology resident, the student will obtain pertinent clinical histories and laboratory data and attend all sign out sessions with the attending pathologist.

Four week electives: Students have one week each in the above rotations.
**Goals:**
- Obtain hands-on experience in the practice of Pathology
- Learn the skills and attitudes required in the discipline of Pathology
- Understand the role of the pathologist as a member of the health care team in patient care, as consultant and in relevant systems-based practices to enhance patient safety and care quality.

**Objectives:**
- to be a thoughtful member of the pathology health care team
- to responsibly perform assigned patient care-related responsibilities that include presenting patient information at the time of sign outs, assisting with gross descriptions at the time of frozen sections, performing skill-appropriate dissections.
- to enhance medical knowledge related to laboratory medicine
- to appreciate the integration of pathology and laboratory medicine in clinical practice
- to appreciate the central role played by neuropathology in all aspects of pathology and laboratory medicine.

**Locations:**
Jackson Memorial Hospital (50%)
- Holtz, Rm 2044B, Dr. Petito, Director
- Diagnostic Treatment Center, Rm. D304
- Holtz, Large Conference Room, Rm. 2034
- Holtz, Residents multi-headed microscope, 2051B

University of Miami Hospital (50%)
- Surgical Pathology Reading Room 4076
- Frozen section room: 3rd floor OR suites

**Participating Faculty:**
All house staff and teaching faculty participate in this elective. Students work closely with the house staff and faculty on the specific rotations selected at the time of the introductory meeting with Dr. Petito. The resident is responsible for ensuring the student’s involvement in the daily activities of the rotation and participates in the student evaluation with the assigned faculty.

**Prerequisite:**
None

**Expectations:**
- Day One, meet with Dr. Petito at 8:30 am (Holtz Rm2044B) to review learning plan and rotations
- Participation in pathology-related patient care duties as assigned
- Reliable and on-time attendance on rotations and at mandatory conferences

**Student Evaluation and Grading:**
A passing grade includes attendance, documented in part by signed record of attendance at the daily 12:00 noon conference, and an evaluation by the supervising faculty or resident. The Faculty/Resident evaluation rates attendance, participation, and medical knowledge on a 1 (poor) to 5 (excellent) scale. Unexcused absences are not permitted.

Reviewed January 2015
WPB VA PATHOLOGY ELECTIVE

COURSE CODE: MDR 1008 – ON HOLD 2015-2016

CLERKSHIP DIRECTOR: Dr. Sundara Sridhar

TELEPHONE: 561-422-6820

EMAIL: sundara.sridhar@va.gov

CONTACT: Joseph Sollecito, JSollecito@med.miami.edu, 561-886-1202

LENGTH OF ELECTIVE: 2 or 4 weeks

PREREQUISITE: Internal Medicine and Surgery

NUMBER OF STUDENTS: 1

AVAILABLE: All year

U.S. VISITING STUDENTS: Yes

INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval

TYPE: Anatomic and Clinical Pathology

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a fee for the background check.

Overview:
This is a 2 or 4 week rotation intended to give the student a global concept of how the ancillary medical discipline of Pathology integrates into the patient’s diagnosis and ongoing management. The student, who already has a basic working knowledge of clinical medicine, will be able to appreciate the value of appropriate choice of laboratory tests to help patient management from a laboratory perspective.

Course Design:
The elective is set up to have exposure to both Anatomic and Clinical Pathology. For Anatomic Pathology, the student will spend half the day participating in the microscopic examination and diagnosis of various biopsy materials. The student will also be expected to attend and participate in the interdepartmental patient management conferences. For Clinical Pathology, the student will spend a day in each of the laboratory subdivisions including Clinical Chemistry, Hematology, Microbiology, Blood Banking, and Point of Care testing to learn the basic laboratory principles in clinical diagnostic testing.

Sample Schedule:

<table>
<thead>
<tr>
<th>DAY</th>
<th>AM/PM</th>
<th>SUBJECT</th>
<th>GUIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEK#1:</td>
<td>AM</td>
<td>GENERAL ORIENTATION</td>
<td>Dr.SS/Peggy/Stan</td>
</tr>
<tr>
<td>Monday</td>
<td>PM</td>
<td>Intro. To Anatomic Pathology/Gross Lab</td>
<td>Dr.SS/Stan</td>
</tr>
<tr>
<td>WEEK#1:</td>
<td>AM</td>
<td>Chest Conference/Slide Review</td>
<td>Dr.SS/Sign out Pathologist</td>
</tr>
<tr>
<td>Tuesday</td>
<td>PM</td>
<td>Slide Review</td>
<td></td>
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<tr>
<td>WEEK#1:</td>
<td>AM</td>
<td>Liver Conference</td>
<td>Dr.SS</td>
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<tr>
<td>Wednesday</td>
<td>PM</td>
<td>Slide Review</td>
<td>Sign Out Pathologist</td>
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<tr>
<td>WEEK#1:</td>
<td>AM</td>
<td>Slide Review</td>
<td>Sign Out Pathologist</td>
</tr>
<tr>
<td>Thursday</td>
<td>PM</td>
<td>Slide Review</td>
<td>Sign Out Pathologist</td>
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<tr>
<td>WEEK#1:</td>
<td>AM</td>
<td>Slide Review</td>
<td>Sign Out Pathologist</td>
</tr>
<tr>
<td>Friday</td>
<td>PM</td>
<td>Slide Review</td>
<td>Sign Out Pathologist</td>
</tr>
</tbody>
</table>
Goals:
- Better understanding of the process of pathologic diagnosis, limitations and potentials of different modalities of obtaining specimens for diagnosis and the value of prognostic markers.
- Better utilization of routine and esoteric laboratory tests.

Objectives:
The student will have the benefit of “one-on-one” learning experience with the Attending Pathologist during the Microscopic examination and “sign-out” process. In the Clinical laboratory, the Division Supervisors will provide the students with the appropriate guidance to learn the basic laboratory principles.

Location: West Palm Beach VA Medical Center

Participating Faculty: Dr. Sundara Sridhar

Prerequisite: Core rotations in Internal Medicine and Surgery.

Expectations:
At the end of the rotation, the student is expected to have a basic knowledge in the pathologic diagnosis of diseases, specifically the most common types of cancers. The student should have a better understanding of the newer modalities of tissue testing such as molecular diagnosis and its relevance in patient management. It is also hoped that the student will appreciate the importance of discriminative approach in laboratory test utilization as it relates to escalating health care costs.

Student Evaluation and Grading:
- Pass/Fail dependent upon attendance and participation.
- The student will receive an evaluation with written comments addressing strengths and weaknesses.
- The student will be asked to complete a general evaluation of the learning experience.
- Exceptional performance will be duly noted.

Revised November 2015
PEDIATRICS
ADOLESCENT MEDICINE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 880</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Lawrence B. Friedman, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-5880</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Oriali Coffigny, Mailman Center #1058A</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Pediatrics</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2 (rare exceptions may be considered)</td>
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<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview/Course Design:
The goals of this elective clinical rotation are to broaden the student’s general knowledge of Adolescent Medicine, with emphasis on learning diagnosis and treatment of the unique physical, developmental, and psychosocial problems of patients ages 10 – 25 years. The student will participate in the multidisciplinary team approach to adolescent health care; gain experience in communicating and interacting with a wide variety of inpatient and outpatient adolescents, and attend all aspects of the Adolescent Medicine teaching program.

ADOLESCENT INPATIENTS
The student will have opportunities to perform consultation examinations of adolescent patients at Holtz Children’s, as well as participate in multidisciplinary care. The student will also participate in consultations at the inpatient psychiatric unit for adolescents at JMH Mental Health.

ADOLESCENT OUTPATIENT CLINICS
The student will attend and actively participate in the General Adolescent Medicine Clinic, as well as the Adolescent Specialty Clinics (Gynecology, STD/HIV, Diabetes, Chronic Diseases), outreach educational events at local senior high schools, and weekly visits to the juvenile detention center. Students will be required to do health education topic discussions in the clinic and/or community settings also.

Goals/Objectives:
Goal 1 – Know Tanner Stages and maturational processes
Goal 2 – Know HEADS mnemonic for psychosocial history and assessment
Goal 2 – Know precepts of confidentiality and conditions associated
Goal 2 – Know mature minor/emancipated minor concepts
Goal 3 – Know different aspects of school health services
Goal 4 – Know basic knowledge of: adolescent health complaints

1. Increase knowledge about adolescent physical and psychosocial growth and development
2. Understand unique aspects of adolescent health care (eg. Psychosocial screening, confidentiality issues, etc.)
3. Increase awareness of different adolescent health care delivery models through active participation or discussions (eg. Academic clinics, school clinics, faith-based clinics, health department clinics, juvenile detention centers etc.)
4. Understand diagnosis and management of some common adolescent conditions (eg. Acne, STD’s, menstrual disorders, chronic diseases etc.)

**Location:** JMH ACC 5B (20%) and MCCD 1055A (80%)

**Prerequisite:** Completion of Pediatrics core clerkship

**Expectations:**
The student will attend daily Pediatrics activities, small group dialogues, and case discussions, as well as other weekly Pediatric conferences (Grand Rounds, M&M, Staff Conference). The student will also function as a member of the multidisciplinary Adolescent Team. Additional preceptorial teaching sessions will be held with Adolescent Medicine faculty. The student will be required to do independent reading on adolescent-related topics and may be required to present an adolescent topic to the team. Students should stop by the Mailman Center for Child Development (MCCD) Room 1055A to pick up a schedule and reading packet on the Friday prior to the rotation.

Students should stop by the Mailman Center for Child Development (MCCD) Room 1058A to pick up a schedule and reading packet on the Friday prior to the rotation.

**Student evaluations and grading:**

**EVALUATION WILL CONSIST OF:**

1. 10 question pre and post test
2. Completion of reading materials
4. General Attendance and participation

Revised January 2015
# CHILD PROTECTION TEAM

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 881</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Walter F. Lambert, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-7550</td>
</tr>
</tbody>
</table>
| CONTACT:      | Maryela Suarez
Professional Arts Building Rm. #212  D-820 |
| LENGTH OF ELECTIVE: | 2/4 weeks                  |
| PREREQUISITE: | None, Pediatrics Core Clerkship is strongly encouraged |
| NUMBER OF STUDENTS: | 2                          |
| AVAILABLE:    | All year                     |
| U.S VISITING STUDENTS: | Yes                        |
| INTERVIEWING TIME: | 1 day (2wks) OR 2 days (4wks), with prior approval |
| TYPE:         | Clinical                     |

**NOTE:** ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

## Overview/Course Design:
The Child Protection Team elective is designed to familiarize the students to all aspects of child abuse. The students will learn to assess and document physical abuse and neglect, attend court hearings and participate in case staffing. This elective is geared to meet the needs of all medical students (independent of their career goals) and introduce them to the community resources available for children and their families.

## Goals/Objectives:

### Clinical Goals:
- A. Identification and documentation of patterns of child abuse and neglect
- B. Exposure to child abuse identification and documentation
- C. Psychosocial assessments of victims and their families
- D. Exposure to a multidisciplinary team approach

### Juvenile Court/Department of Children & Families:
- A. Familiarization to the DCF and juvenile court systems
- B. Case preparation and medical expert testimony
- C. Acquaintance with the shelter/foster care system

## Location:
UM Child Protection Team offices and hospitals throughout the area

## Prerequisite:
The Pediatrics Core Clerkship is strongly encouraged but not required.

Reviewed January 2015
## MED-PEDS PRIMARY CARE/TRANSITIONAL CARE ELECTIVE
(Listed under Medicine, Pediatrics, and Med-Peds)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr. Abiona Redwood (effective Sept 1 – Dr. Eyssallenne until then)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-7476</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ARedwood@med.miami.edu">ARedwood@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Javier Salazar; <a href="mailto:JSalazar@med.miami.edu">JSalazar@med.miami.edu</a>; 305-585-5954</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine and Pediatrics Core Clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day / 2 weeks OR 2 days / 4 weeks, with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
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</table>

**NOTE:** ANY schedule changes must be authorized by Dr. Patel or the Med/Peds Residency Coordinator before your schedule can be officially changed.

### Overview:
Combined Internal Medicine and Pediatrics is a unique specialty that trains physicians in the care of patients of all ages. The elective aims to give students exposure to Med/Peds in an urban primary care practice setting. Students will see routine care of newborns, infants, children, adolescents and adults, as well as care of patients with complex pediatric diseases as they transition into adulthood.

### Course Design:
The rotation will comprise of the following experiences:

11. **Med/Peds Primary Care Practice** - Students will spend a majority of their time with Med/Peds faculty and residents seeing and evaluating patients in the primary care practice. This will include patients that are being transitioned from pediatrics to adult care.

12. **Med/Peds and Categorical Noon Conference** - Students will attend daily noon conference, including Monday and Thursday Med/Peds noon conference, Tuesday Pediatric Grand Rounds, Wednesday Internal Medicine Grand Rounds. The student will give a presentation at the last Med/Peds noon conference of his/her rotation.

13. **Transitional Care Online Modules** - Students will be given time for “self study” for online modules that discuss transitional care.

14. **Transitional Care Meetings** - Students will have exposure to meetings in various departments to discuss transition of their complex pediatric patients.

15. **Transitional Care Clinics** - Students will have exposure to adolescent/ transitional care patients with complex pediatric diseases. *depends on availability*
### Sample Weekly Schedule

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
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<tbody>
<tr>
<td><strong>AM</strong></td>
<td>Med/Peds Faculty Clinic</td>
<td>Med/Ped Faculty Clinic</td>
<td>Med/Ped Faculty Clinic</td>
<td>Self Study/Lecture preparation</td>
<td>Peds Staff Conference</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Med/Ped Faculty Clinic</td>
</tr>
<tr>
<td><strong>Noon</strong></td>
<td>Med/Peds Conf</td>
<td>Peds Grand Rounds</td>
<td>Internal Med Grand Rounds</td>
<td>Med/Peds Conf</td>
<td>IM or Peds Noon Conf</td>
</tr>
<tr>
<td><strong>PM</strong></td>
<td>Med/Ped Faculty Clinic</td>
<td>Self Study or Transitional Care Meeting</td>
<td>Med/Ped Resident Clinic</td>
<td>Self Study or Transitional Care Meeting</td>
<td>Med/Ped Resident Clinic</td>
</tr>
</tbody>
</table>

**Goals:**

7. The students will receive exposure to the Med/Peds specialty and the unique opportunities the career can provide.
8. The student will receive broad clinical training in the care of adult and pediatric outpatients in a major urban setting.
9. The student will receive exposure and didactic training in transitional care of the complex pediatric patient.

**Objectives:**

7. The student will learn and be able to apply age/gender appropriate screening, immunizations, and anticipatory guidance for the following populations:
   - Newborn
   - Infant/Toddler
   - School Aged Child
   - Adolescent
   - Adult
8. The student will be able to diagnosis and provide intial management of the following primary care problems:
   - Gastroesphogeal Reflux
   - Allergic Rhinitis
   - Asthma/COPD
   - Obesity
   - HTN
   - Diabetes Mellitus
   - Hyperlipidemia
   - Low Back Pain
9. The student will know the following with regard to transitional care:
   - The definition of healthcare transition
   - The importance of providers to understand the specific issues regarding healthcare transition
   - Specific tools and resources they can utilize to help youth and their families develop a long-term transition plan
   - Specific strategies that can be used with young patients to empower them to be more responsible for their own healthcare.
   - The importance of multispecialty (pediatrics, internal medicine, subspecialists) coordination in the transition of healthcare from pediatric to adult care.
**Location:**
- Primary Location - Jackson Memorial Hospital Ambulatory Care Center Med Peds Primary Care Practice (ACC West 5A)
- Students may be asked to attend meetings/conferences in other parts of ACC, Jackson Memorial Hospital or University of Miami Hospital and/or Clinics.

**Participating Faculty:**
- Med Peds Faculty and Faculty from Division of Internal Medicine and Division of Pediatrics

**Prerequisite:**
- Completion of both Internal Medicine and Pediatric Core Clerkships

**Expectations:**
- The student is expected to participate in all activities (primary care clinic, transitional care meetings, self-study modules, oral presentations, noon conferences) in the course curriculum. They are expected to be on time, and to give appropriate notice to clerkship director for all absences or tardiness. Students are expected to follow the codes of professionalism as mandated by the School of Medicine.
- Progress notes on patients that are evaluated by the student are to be completed by the end of the same day the patient was seen.
- Students are to complete the on-line transitional care modules by the end of the rotation.

**References**

**Online Modules/Training:**
- Florida Health and Transition Services Education and Training for Health Care Professionals - [http://www.floridahats.org/?page_id=2206](http://www.floridahats.org/?page_id=2206)

**Suggested Readings:**

**Student Evaluation and Grading:**
- The medical student will receive a written evaluation at the end of the month based on the six ACGME core competencies. This will be reviewed with the student by the faculty evaluator.
- The student will complete an evaluation of the overall rotation and of the faculty with whom they worked.
- Grading will be given as pass/fail.

Revised January 2015
NEONATOLOGY

COURSE CODE: MDR 883
CLERKSHIP DIRECTOR: Ilene Sosenko, M.D.
TELEPHONE: 305-585-6408
EMAIL: 
CONTACT: Fanny Calvo [Central 740 R-131]
LENGTH OF ELECTIVE: 2/4 weeks
PREREQUISITE: Pediatrics
NUMBER OF STUDENTS: 2
AVAILABLE: All Year
U.S VISITING STUDENTS: No
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview/Course Design:
This rotation in Neonatology can be taken as a 2 or 4 week elective.

The student will be part of the team headed by an attending, and will follow and manage one or two patients together with one of the residents on the team. Teaching rounds will be conducted 5 times a week, work rounds 7 days a week.

During the first 2 weeks of the rotation the student will refresh and refine his/her physical examination skills. He/she will become familiar with the nutritional needs of neonates and infants and with how these needs can be met by feedings and parental alimentation. How to prevent and correct imbalances in body water and electrolytes will be stressed. Problems with anemia, hyperbilirubinemia, infection (congenital or acquired after birth), hypoglycemia and hypocalcemia and their management will be explained.

During the second two weeks of the rotation the focus of training will change to infants with respiratory and cardiovascular failure. The student will become familiar with the different causes of respiratory failure, how to judge the severity of respiratory failure by interpreting arterial blood gases and acid base status, and how to support the infants with supplement O2 or mechanical ventilation. Furthermore, the students will be exposed to signs and symptoms of cardiovascular failure, impaired regulation of breathing, and the consequences of hypoxic ischemic brain injury.

Goals/Objectives:
- Describe the nutritional needs of neonates and infants
- Appreciate how to prevent and correct imbalances in body water and electrolytes
- Describe the causes of respiratory failure
- Interpret the severity of respiratory failure through blood gas analysis and assessment of acid base status

Location: JMH (100%)

Prerequisite: Completion of Pediatrics core clerkship
**Expectations:**
The students will keep a checklist to document their progress in understanding the above problems.

**Student evaluations and grading:**
Students will be evaluated based on part, or all of the following:
- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills

Reviewed January 2015
PEDIATRIC ALLERGY AND IMMUNOLOGY ELECTIVE

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<tr>
<th>COURSE CODE:</th>
<th>MDR 973</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Elena E. Perez, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4863</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:eperez13@med.miami.edu">eperez13@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Merida Pelier [ET 6006], <a href="mailto:mmp161@med.miami.edu">mmp161@med.miami.edu</a>, 305-585-6364</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Pediatrics Clerkship</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
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</table>

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview:
The pediatric allergy and immunology elective is designed to give senior medical students exposure to the spectrum of diseases seen in the field of Allergy and Immunology. The student will predominantly rotate through the outpatient clinic and inpatient consults, and see patients and procedures based on the emphasis of that location.

Course Design:
The student will spend the majority of their time in the outpatient Allergy/Immunology clinic at the BCRI (Batchelor Children’s Research Institute), seeing new patient visits and follow-ups. All patients seen by the student will be discussed with the attending. The student will also observe a variety of allergy testing, including skin testing to common aeroallergens and foods, and learn the basics of how to perform and interpret skin testing. Students may also have the opportunity to observe skin testing to penicillin, stinging insects and local anesthetics, depending on the variability of the week. Student will observe and be instructed on the interpretation of basic spirometry. The student will learn about the signs and symptoms of primary immunodeficiency, and how to conduct and interpret immunology screening tests. The student will have the opportunity to study more in depth about immunology and primary and secondary immunodeficiency as well. The student may also have the opportunity to perform inpatient Allergy/Immunology consultations at Holtz Children’s Hospital, as well as, round with the attending. A presentation regarding a topic of interest to the student relating to the field of allergy/immunology is expected by the end of the rotation.

Goals:
1. Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiology examinations and cognitive skills as they related to the diagnosis and treatment of allergic diseases.
2. Familiarize the medical student with allergy testing:
   a. Understand the major risks for the procedure
   b. Observe the skin testing being performed, especially if they were involved with the evaluation of the patient
   c. Spirometry
3. Reinforce a critical approach to the medical literature
4. Learn about primary immunodeficiency disorders and the approach to diagnosis and management as part of the Jeffrey Modell Research and Referral Center for Primary Immunodeficiency Diseases.

**Student Responsibilities:**
1. BCRI Clinic 2 x’s week
2. Weston Clinic 1 x month
3. Return patient phone messages
4. JMH/HOLTZ Inpatient Consultations
5. Reading List
6. Pre and Post Test
7. Presentation

**Learning Objectives:**
The medical student will be by the end of the rotation to be familiar with the basic evaluation and management of the following disorders:
1. Allergic Rhinitis
2. Asthma
3. Chronic Sinusitis
4. Food Allergy
5. Medication Allergy
6. Angioedema
7. Eczema
8. Primary Immunodeficiency Diseases

**Participating Faculty:** Dr. Elena E. Perez

**Prerequisite:** Completion of the Pediatrics Clerkship

**Locations:**
1. BCRI – 70%
2. JMH/HOLTZ – 25%
3. Weston – 5%

**Examination and Grading:**
Evaluation is the responsibility of the attending. Students are evaluated on their professionalism, clinical skills and participation as well as attendance, reliability, initiative, and ability to relate to patients peers and staff. A post-test will be administered. Judgment and the ability to perform accurate history/physical are also evaluated.

Reviewed January 2015
PEDIATRIC CARDIOLOGY

COURSE CODE: MDR 885
CLERKSHIP DIRECTOR: Sethuraman Swaminathan, M.D. (sswami@med.miami.edu)
TELEPHONE: 305-585-6683
CONTACT: Merida Pelier (mmp161@med.miami.edu)
EMAIL: see above
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Pediatrics
NUMBER OF STUDENTS: 1
AVAILABLE: All Year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: No
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview/Course Design:
The student is exposed to the physiology, clinical and laboratory diagnosis, and management of the infant and child with congenital and acquired heart disease. Physical diagnosis is emphasized during participation in the out-patient clinics at the University of Miami and Jackson Memorial Hospital. Cardiology ward rounds are conducted daily providing the opportunity to follow hospitalized patients from clinical diagnosis to cardiac catheterization to cardiac surgery. Interpretation of pediatric electrocardiograms and cardiac echocardiograms are included in the individual patient's evaluation.

Fundamentals of electrophysiology and pulmonary physiology, as it relates to heart disease, will be discussed in scheduled tutored session.

Goals/Objectives:
Students will be exposed to and participate in the care of children with pediatric cardiac disorders.

Location: JMH (100%)

Prerequisite: Pediatrics core clerkship

Expectations:
Participation in didactic lectures and weekly Cardiac Center Conference is also part of this elective.

Student evaluations and grading:
Students will be evaluated based on part, or all of the following:
- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills

Revised January 2015
# PEDIATRIC DERMATOLOGY

*(Listed under both Dermatology and Pediatrics)*

<table>
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<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Lawrence Schachner, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6735</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ghevia@med.miami.edu">ghevia@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Gabriela Hevia</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2-4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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## Overview/Course Design:
The understanding of mechanisms of pathophysiology and effective therapy in pediatric dermatological diseases is stressed in this elective. The students will participate in management of in-patient and out-patient dermatological and connective tissue problems. Diagnostic techniques by light microscopy and immunologic techniques and standard dermatologic laboratory techniques will be emphasized.

## Goals/Objectives:
The goals of this elective are to introduce the student to clinical and laboratory means of recognition of cutaneous diseases in children and adolescents.

## Location:
JMH (100%)

## Prerequisite:
NONE

## Student evaluations and grading:
Students will be evaluated based on part, or all of the following:
- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills

Reviewed January 2015
PEDIATRIC EMERGENCY ROOM

<table>
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<tr>
<th>COURSE CODE:</th>
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</tr>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr. Hector Chavez (305-585-7050)</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mmp161@med.miami.edu">mmp161@med.miami.edu</a></td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-6364</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Merida Pelier</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
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<td>PREREQUISITE:</td>
<td>Pediatrics</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
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</table>

**NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.**

**Overview/Course Design:**
The student will be the primary physician for pediatric patients presenting with acute problems in the emergency facility of Jackson Memorial Hospital. The student will evaluate and treat patients with an extensive variety of acute illnesses under supervision of pediatric faculty and house staff.

**Goals/Objectives:**
Students will be exposed to and participate in the care of children with pediatric emergencies.

**Location:** JMH Pedi ER (100%)

**Prerequisite:** Pediatrics core clerkship

**Expectations:**
The student is expected to participate eight hours a day and attend staff conference, grand rounds, and ambulatory teaching conferences each week.

**Student evaluations and grading:**
The student will be evaluated via a compilation of comments and observations made by the House staff and attendings in the Pediatric Dept. based on part, or all of the following:
- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills

Reviewed January 2013
PEDIATRIC ENDOCRINOLOGY

<table>
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<tr>
<th>COURSE CODE:</th>
<th>MDR 888</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Tossaporn Seeherunvong, M.D. (Mailman #3044A)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2920</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:TSeeherunvong@med.miami.edu">TSeeherunvong@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Alina Riesgo 305-243-6426</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
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</table>

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview/Course Design:
This elective provides experience in Pediatric Endocrinology with emphasis on disorders of growth, diabetes mellitus, thyroid disease, puberty, and other endocrine problems. There are five clinics per week.

Goals/Objectives:
Students will be exposed to and participate in the care of children with endocrine disorders.

Location: Mailman (100%)

Prerequisite: Completion of all core clerkships

Student evaluations and grading:
Students will be evaluated based on part, or all of the following:
• Patient evaluation skills
• Data gathering and problem solving
• Fund of knowledge
• Case presentations and write-ups
• Personal qualities
• Clinic/Ward activities and responsibilities
• Communication and interpersonal skills

Revised January 2015
PEDIATRIC GASTROENTEROLOGY, HEPATOLOGY & NUTRITION

COURSE CODE: MDR 889
CLERKSHIP DIRECTOR: Amber Langshaw, MD, alangshaw@med.miami.edu
TELEPHONE: 305-243-6426
CONTACT: Merida Pelier, 305-585-6364
EMAIL: mmp161@med.miami.edu
LENGTH OF ELECTIVE: 2 / 4 weeks
PREREQUISITE: Pediatrics
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview/Course Design:
The student will be able to participate in the care for inpatients and outpatients; to participate in daily rounds on inpatients as well as consults with the attending physician, fellow and pediatric resident team. Opportunities to conduct patient interviews and examinations as well as to observe/participate in GI procedures will be an integral part of the elective. The student will review indications/risks for particular procedures and surgeries as they relate to pediatric gastroenterology. Students will also participate in weekly outpatient clinics. Students will also learn care of gastrostomy tubes. The 4 week rotation will consist of 2 weeks inpatient and 2 weeks outpatient. For the 2 week rotation, the student will choose either the inpatient or outpatient component of the rotation.

Goals/Objectives:
Students will be exposed to and participate in the care of children with gastrointestinal, hepatology, and nutrition disorders.

The medical student will be expected to be familiar with the basic evaluation and management of the following disorders.

1. GERD
2. Abdominal pain of childhood
3. Inflammatory bowel disease
4. Jaundice and cholestasis
5. Pancreatitis
6. Failure to thrive
7. Enteral versus parenteral feeds

Location: JMH (75%) and satellite outpatient clinics (25%)

Prerequisite: Pediatric Clerkship

Expectations:
Attendance is mandatory for all assigned fellow conferences, pathology and radiology rounds, didactics, journal club, rounds and/or presentations. The student should be prompt.

An oral presentation (15-30 minutes) on a topic of the student choosing is required at the end of the rotation.

**Student evaluations and grading:**
Evaluation is the responsibility of the attending on service and/or the clinical setting. Students are evaluated/judged on their professionalism, clinical skills and participation as well as reliability, initiative, and ability to relate to patients peers and staff. Judgment and the ability to perform accurate history/physical are also evaluated.

Revised January 2014
PEDIATRIC INFECTIOUS DISEASES AND IMMUNOLOGY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 891</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Charles Mitchell, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2700</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cmitchel@med.miami.edu">cmitchel@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Merida Pelier, <a href="mailto:mmp161@med.miami.edu">mmp161@med.miami.edu</a>, 305-585-6364</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 Weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None (encouraged to complete Pediatrics core clerkship prior to taking course, but not required)</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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</tr>
</tbody>
</table>

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview/Course Design:
The 4-week rotation in Pediatric Immunology and Infectious Disease is designed to give the student a broad experience in the immunological and infectious disease problems of children. The student will participate in both the inpatient and outpatient care of children with such problems by rounding daily with the attending fellow and the clinical pediatric infectious disease faculty. The student will also have the opportunity to assist in the care of children with HIV-1 infection as well as other immunodeficiency diseases.

Goals/Objectives:
Students will be exposed to and participate in the care of children with immunologic and infectious diseases.

Location: BCRI Clinics – 60%, Holtz Children’s Hospital Inpatient 40%

Prerequisite: Completion of core Pediatrics clerkship is encouraged but not required

Expectations:
Students will be expected to attend a variety of both pediatric and adult infectious disease conferences that occur weekly and will be asked to conduct an informal seminar on an infectious disease topic of their choice during the last week of their rotation.

Student evaluations and grading:
Students will be evaluated based on part, or all of the following:

- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills

Revised January 2014
PEDIATRIC INTENSIVE CARE UNIT

COURSE CODE: MDR 892
CLERKSHIP DIRECTOR: Asumthia Jeyapalan, D.O.
G. Patricia Cantwell, M.D. (Division Chief Pediatric Critical Care)
TELEPHONE: 305-585-6051
EMAIL: ajeypalan@med.miami.edu; pcantwel@med.miami.edu
CONTACT: Merida Pelier, mmp161@med.miami.edu
Office: Holtz Children’s Hospital (East Tower), Room 6006
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of Core Clerkships
NUMBER OF STUDENTS: 2
AVAILABLE: See below for dates
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview:
The primary objective of this rotation is to promote the development and mastery of clinical critical care pediatric competencies. The environment of the PICU affords the student a broad exposure to clinically relevant physiological and pathophysiological principles and multisystem disease (Competencies: Patient Care, Medical Knowledge). The practice of evidence based medicine is promoted by encouraging students to conduct literature search for current guidelines (Practice-based Learning and Improvement), with an emphasis on the basic principles of recognition and management of respiratory failure and shock in the pediatric population (infancy to 21 years).

Course Design:
Subinterns are assigned to the Pediatric Critical Care team and assume primary and direct responsibility for patient care under close supervision by the critical care attending physician and fellow. They are afforded broad opportunity to navigate the complexities of collaborative management with other specialties, thereby gaining experience with multidisciplinary teamwork (System-based Practice). The PICU environment allows the student to become familiar with monitoring devices utilized in the care of critically sick or injured children. The rotation provides the opportunity for dealing with ethical challenges in decision making (Professionalism, Interpersonal Skills/Communication).

Subinterns will participate in weekly division conferences, attend weekly Pediatric Grand Rounds and required pediatric resident noon conferences. They participate in daily clinical activities including handoffs, and multidisciplinary rounds. Night and weekend call is in-house, every fourth day/night. Post-call, the student should sign out and be relieved of duty by 10 am.

Goals:
- Develop fundamental knowledge and skills to assess and identify physiologically deranged infants and children, learn when to seek assistance, and take proper initial steps in resuscitation and/or stabilization;
- Promote the practice of Evidence-Based Medicine in Pediatrics to improve quality of care and patient safety;
• Review common clinical conditions (e.g. respiratory failure, shock) with emphasis on diagnosis and management.

**Learning Objectives:**

1. Gather information through relevant and focused history taking
2. Conduct directed and complete physical examinations
3. Order appropriate tests and effectively interpret results
4. Engage in clinical reasoning, propose differential diagnoses and formulate appropriate therapeutic recommendations
5. Document encounters efficiently and accurately
6. Prioritize daily tasks for patient care and learn principles of triage when facing emergency or simultaneous urgent situations in the PICU
7. Anticipate patient needs and organize transfer or discharge planning
8. Develop skills in order to provide family centered care with focus upon the impact that a child’s critical illness/injury has on the entire family
9. Ensure safe transition of care by streamlining and prioritizing patient information in hand-offs; learn criteria for discharge from PICU to lower acuity area
10. Demonstrate understanding of the pathophysiology of multiple system disease
11. Understand the impact of cultural, psychosocial and environmental processes on complex goal setting and patient management for children with special health care needs
12. Review and apply current literature with an emphasis on the practice of evidence-based medicine
13. Effectively communicate with the patient, his/her caregiver and with other physician and non-physician members of the healthcare team
14. Efficiently coordinate multidisciplinary care through appropriate utilization of consultative and ancillary services
15. Use information technology to access online medical information, review evidence from scientific studies and formulate appropriate management decisions
16. Understand the risks and benefits of procedures and learn how to obtain informed consent
17. Recognize the importance of quality improvement, risk management and promotion of patient safety
18. Maintain timely communication with primary care physicians, sub-specialists and consulting physicians
19. Commit to excellence and to personal/professional growth through self directed learning; to perform evaluation of one’s performance and develop plan for improvement
20. Become familiarized with the basics of sedation and analgesia in Pediatrics (e.g. categories of medications, appropriate monitoring, side effects, pre-sedation clearance)

**Location:**

• Pediatric Intensive Care Unit, 5th floor, Holtz Children’s Hospital/Jackson Memorial Medical Center (100%)

• Notable features:
  • 24 bed, multidisciplinary medical/surgical unit, directed exclusively by critical care pediatricians;
    o Broad age range for maximal exposure (infancy to 21 years);
    o Outstanding, experienced nursing staff;
    o Full time, designated respiratory therapists and pharmacists;
    o Variable acuity (some “step-down” patients);
    o 24/7 fellow and resident coverage; attendings are present at least 10-12 hours each day, typically more;
    o Large population of multispecialty patients, e.g. need to interface with many pediatric subspecialists.
Participating Faculty:
- Department of Pediatrics, Division of Pediatric Critical Care (Faculty: Drs. G. Patricia Cantwell, Gwenn McLaughlin, Barry Gelman, Michael Nares, Juan Solano, Asumthia Jeyapalan, Brent Pfeiffer, Shivani Tripathi)

Prerequisite:
- Completion of Core Clerkships

Expectations:

Role and Responsibility of the Subintern:
- The subintern is an integral part of the pediatric critical care team and works under the close supervision of the pediatric critical care attending and fellow. He/she participates in the following aspects of patient care:
  - Initial evaluation (admission note, on service note)
  - Daily management (order entry, progress notes, handoffs)
  - Coordination of care with other specialties and ancillary services
  - Final Disposition (off service note, discharge summary, transfer, outpatient follow up)
  - The subintern carries 1-2 patients
- The subintern participates in night/weekend calls every fourth day.
- Pre-Rounds 0700
- Attending Rounds 0800 to approximately 1200 noon.
- Sign Out 1700
- The subintern attends workshops and all others conferences as outlined in the conference calendar.

Conference Schedule:
During the rotation, the subintern is required to attend the following conferences:
- Pediatric Grand Rounds, Mailman Center, Tuesdays, 1200
- Pediatric Staff Conference, Mailman Center, Fridays, 1200
- Pediatric Resident Noon Conference, daily
- We encourage participation in the weekly Pediatric Critical Care Fellow Conference, Holtz Room 5009, Thursdays, 0730 to 0830

Learning Materials:
Reference textbooks are suggested. Basic review articles in Pediatric Critical Care are distributed. Online resources (e.g. NEJM instructional videos, teaching modules) are assigned.

PreTest / PostTest:
An online PreTest and PostTest will be administered to the student to evaluate the knowledge and the experience acquired during the rotation. This will be used for program evaluation and student feedback. It will NOT be graded or used towards the student’s final evaluation.

Student Evaluation and Grading:
The supervising critical care physicians will provide regular verbal feedback to the subintern over the course of the rotation and will submit a written evaluation of the subintern at the end of the rotation. This may be a composite evaluation from all attendings.

The subintern will complete an evaluation of the supervising attendings and the rotation at the conclusion of the rotation. These evaluations will be anonymous.
### Rotation Dates

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<thead>
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Revised January 2015
PEDIATRIC MOBILE CLINIC ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1018</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Lisa Gwynn, D.O., M.B.A.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-3440</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:lgwynn@med.miami.edu">lgwynn@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>TBA</td>
</tr>
<tr>
<td>LENGTH OF ROTATION:</td>
<td>2 / 4 weeks – 4 weeks is recommended</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Core Pediatrics Clerkship</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>No</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) or 2 days (4wks), with prior approval</td>
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</table>

Overview
This is an outpatient rotation on the University of Miami Pediatric Mobile Clinic (PMC). The PMC is a clinic on wheels that delivers comprehensive pediatric primary care primarily to uninsured children from birth to 21 years of age throughout Miami Dade County free of charge. The PMC provides care for some of the neediest children in communities including Little Havana, West Dade, Homestead, Florida City, Little Haiti/North Miami, Sweetwater, Kendall and Miami Beach. Patients encountered reflect the diverse population of Miami-Dade County. Many are new immigrants and non-English speaking patients accessing medical care for the first time. Thirteen percent of children served have complex medical needs; 20% of the children have disabilities or developmental concerns.

Clinic activities include sick and well-child care and follow up for chronic conditions. Students will work independently and responsibilities will include taking histories, conducting physical exams and discussing assessment and plans of care with the entire unit team including resident and attending physicians, nurse practitioners, social worker, therapist, and psychologist. Students also have the opportunity to do basic procedures such as throat swab, urinalysis, phlebotomy and administration of immunizations and provide counseling and education to patients and families. The students will have an opportunity to participate in telehealth and medical-legal clinics on the unit as well as special projects that are taking place. In addition, students will learn about the public health issues related to caring for uninsured, underserved populations and the social determinants that play a role in health and accessing health care. They will also learn about community resources available to underserved populations.

Course Design / Expectations
Students will work directly with the PMC team. Students are expected to report prior to the start of clinic each day at the various sites (students must arrange for own transportation) and take an active role in seeing patients each day until the clinic ends. It is recommended that students take part in all clinic activities including documentation of the patient visit using the electronic medical record. They will also be expected to participate in scheduled didactic sessions and case presentations during the rotation.

Hours:
- M-F: 9:00 AM- 4:00 PM (plan on up to 1 hour travel time throughout Miami-Dade County)

Location:
- Sites throughout Miami Dade County
- Mobile Unit

Participating Faculty
- Lisa Gwynn, D.O., M.B.A.
Prerequisite
- Core Pediatrics Clerkship

Student Evaluation and Grading
The student will be evaluated by the Attending, along with input from the mobile clinic team. The evaluation will be on a Pass-Fail Basis, and will be based upon attendance and participation in all aspects of the elective, including medical knowledge, patient care, interpersonal and communication skills, professionalism, practice-based learning and improvement, and systems-based practice.

Reviewed January 2015
# PEDIATRIC NEPHROLOGY

<table>
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<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Gaston Zilleruelo, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-6726</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:gzilleruelo@med.miami.edu">gzilleruelo@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Gastón Zilleruelo, M.D. [JMH – Institute Annex Bldg 5th floor]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
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<td>PREREQUISITE:</td>
<td>Pediatrics</td>
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<td>INTERVIEWING TIME:</td>
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**NOTE:** ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

**Overview/Course Design:**
This elective consists of exposure to in-patient and outpatient pediatric renal problems, participation in clinical and experimental discussion with House staff and Fellows, and observation of renal physiology experiments.

**Goals/Objectives:**
Students will be able to describe diagnostic approaches to pediatric renal problems by radiological, histological, electromicroscopic, and immunological techniques.

Current clinical studies include: immunological, metabolic, and physiologic changes in nephrotic syndrome poorly controlled or uncontrolled with steroids; recurrent hematuria; renal function of newborn and infant; calcium, phosphorus, vitamin D, and PTH metabolism in uremia. Chronic Renal Failure; growth; lipids; HIV nephropathy; effect of maternal cocaine on the fetal kidney, low birth weight Nephropathy, dialysis cardiomyopathy; and drug use in hypertension.

**Location:** JMH (100%)

**Prerequisite:** Completion of core Pediatrics clerkship

**Student evaluations and grading:**
Students will be evaluated based on part, or all of the following:
- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills

Reviewed January 2015
# PEDIATRIC PULMONARY SERVICE

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<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 895</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Tarig Ali-Dinar, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6162</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:talidinar@med.miami.edu">talidinar@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Alina Riesgo <a href="mailto:ariesgo2@med.miami.edu">ariesgo2@med.miami.edu</a> Yaimy Grass <a href="mailto:Ygrass@med.miami.edu">Ygrass@med.miami.edu</a> Phone: 305-243-3176 [1580 Batchelor Children’s Inst., 1st floor]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<td>PREREQUISITE:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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**NOTE:** ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

## Overview:

The objective of this rotation is to provide the students with the clinical exposure to acute and chronic, acquired and congenital, respiratory diseases from infancy to adolescence in both in-patient and out-patient venues. These conditions include but are not limited to asthma, chronic cough, chronic lung disease of infancy, cystic fibrosis, congenital lung abnormalities, recurrent and complicated pneumonia. The student will participate in the in-patient rounds or activities, ambulatory clinics and didactic conferences.

## Course Design:

The students are assigned to the Division of Pediatric Pulmonology of the University of Miami and see patients with the pulmonary fellow under the close supervision of the pulmonary attending. The student will be given opportunities to conduct medical interviews and physical examinations and present findings and initial working impression to the assigned attending. The students will participate in didactic activities of the Division and may be asked to prepare a presentation for the pulmonary staff on a topic of interest. Moreover, the students will be asked to attend bronchoscopies and to observe pulmonary function testing.

## Goals:

To provide the clinical exposure and experience as aligned with the clinical core competencies that will enable the students to:

### Objectives:

1. Conduct focused history taking and physical examination.
2. Propose an initial working impression and differential diagnoses and basic management plan based on the medical history and pertinent physical examination findings.
3. Document encounters efficiently and accurately.
4. Use information technology to support diagnosis and management plan.
5. Recommend appropriate consults to other subspecialties.
6. Participate in patient education especially with regard environmental control for asthmatic patients.
7. Communicate compassionately yet professionally with patients and their caregivers.
8. Understand the pathophysiology, presentation and management of common respiratory conditions as given in the Overview.
9. Understand the indications for bronchoscopy; understand its risks and benefits and how to obtain consent.
10. Understand the indications for pulmonary function testing and basic interpretation.
11. Understand the indications for radiographic testing/imaging and basic interpretation.
12. Obtain exposure to patients with sleep-disordered breathing by participation in the Sleep Clinic.
13. Obtain exposure to patients with cystic fibrosis by participation in the Cystic Fibrosis Clinic.
14. Apply the concepts of evidence-based medicine in clinical practice.
15. Demonstrate respect for cultural differences and values among patients and cultural diversity in the medical staff.
16. Practice punctuality and reliability.

Location:
- Out-patient clinics at the Batchelor Research Institute of the University of Miami (50%).
- Out-patient clinics at the ACC-West of Jackson Memorial Hospital (10%).
- In-patient rounds at the Holtz’s Children’s Hospital at the Jackson Memorial Hospital (40%).

Prerequisite:
None.

Expectations:
1. The student is an integral part of the team and works closely with the pulmonary fellow under the supervision of a pulmonary attending.
2. The student is expected to practice professionalism, punctuality and reliability.
3. The student will participate in the in-patient rounds and consults under the supervision of the in-patient attending.
4. The student will participate in the out-patient clinics under the supervision of the out-patient attending(s).
5. The student will attend and participate in didactic conferences and will be provided a schedule of such.
6. The student may be asked to prepare a presentation on a topic of interest to be presented to the pulmonary staff.
7. The student will be given a set of prerequisite reading references; the student is encouraged to access other sources of information relevant to cases seen in the in-patient and out-patient venues.

Student evaluations and grading:
Students will be evaluated based on part, or all of the following:
- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills

Revised January 2015
POISON CENTER / TOXICOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 896</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Richard S. Weisman, Pharm. D., ABAT</td>
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<tr>
<td>TELEPHONE:</td>
<td>305-585-5250</td>
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<tr>
<td>EMAIL:</td>
<td><a href="mailto:rweisman@med.miami.edu">rweisman@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Sandy Guerra; <a href="mailto:squerra@med.miami.edu">squerra@med.miami.edu</a> [Annex Institute, 3rd floor]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2/4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>U.S VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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</table>

**NOTE: ANY schedule changes involving the Poison Center / Toxicology Elective must be authorized by Sandy Guerra or Dr. Weisman (see above for contact information) before your schedule can be officially changed.**

**Overview/Course Design:**
The senior student will be given the opportunity to assist the Poison Information Specialists and Toxicologists at the Florida Poison Information Center with the diagnosis, triage, treatment and follow-up of patients exposed to toxins. The high volume of cases (over 170 patients per day) will allow the student to learn about a wide variety of toxins in both pediatric and adult patients. The clinical experience at the Poison Center will be supplemented with didactic lectures and bedside consultations for both adult and pediatric patients hospitalized at Jackson Memorial Hospital.

**Goals/Objectives:**
At the completion of this elective the student will understand the management of the poisoned patient and will be able to diagnose and treat patients that have been poisoned with acetaminophen, salicylates, iron, cyclic antidepressants and pesticides. In addition the student will be familiar with all of the commonly used poisoning antidotes.

**Location:** Annex Institute, 3rd Floor, JMH (100%)

**Prerequisite:** None

**Expectations:** Attendance is mandatory for all assigned conferences, rounds and/or presentations.

**Student evaluations and grading:**
At the completion of the rotation, the student will be evaluated by one of the Center’s Toxicologists.

The students are evaluated and judged on their professionalism, clinical skills, and participation; reliability, initiative, judgment, and ability to perform accurate history/physical; promptness and their ability to relate to patients, peers and staff.

Reviewed January 2015
WARD PEDIATRICS AT JMH

COURSE CODE: MDR 897
CLERKSHIP DIRECTOR: Akram Tamer, M.D.; ATamer@med.miami.edu [ET 6006]
TELEPHONE: 305-585-6042
CONTACT: Merida Pelier; 305-585-6364
EMAIL: mmp161@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 3
AVAILABLE: See below for dates
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Pediatrics rotations must be authorized by Merida Pelier before your schedule can be officially changed.

Overview/Course Design:
The large pediatric inpatient service offers a unique opportunity to the student to improve the clinical and didactic skills in the diagnosis and management of all the common and most of the uncommon disorders in children. The senior student will be placed in the regular first year resident rotation functioning as part of the ward team under direct supervision of pediatric residents and the attending physicians. There might be two (2) attendings on the team, one full time faculty member in general pediatrics and the other a pediatric specialist or a practicing community pediatrician.

Goals/Objectives:
Students will participate in the care of children on the inpatient pediatrics service.

Location: Jackson Memorial Hospital - Holtz Children’s Hospital (100%)

Prerequisite: Completion of core clerkships

Expectations:
The student will assume the primary responsibility of patient care, and will participate in the Attending rounds five days per week, attend the weekly staff conference, grand rounds, planning conference, the housestaff lunch conference and the monthly Journal Club meeting.

Student evaluations and grading:
At the end of the rotation, there will be a full evaluation by the senior resident and the attending physicians and a pass/fail grade will be given and sent to the Registrar’s office. Students will be evaluated based on part, or all of the following:

- Patient evaluation skills
- Data gathering and problem solving
- Fund of knowledge
- Case presentations and write-ups
- Personal qualities
- Clinic/Ward activities and responsibilities
- Communication and interpersonal skills
Students should contact the pediatric chief resident prior to beginning the rotation.

<table>
<thead>
<tr>
<th>Rotation Dates</th>
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<tbody>
<tr>
<td>6/22/15 – 7/19/15</td>
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<td>7/20/15 – 8/16/15</td>
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<td>8/17/15 – 9/13/15</td>
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<td>4/25/16 – 5/22/16 (off sync)</td>
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Reviewed January 2015
RMC DEVELOPMENTAL & BEHAVIORAL PEDIATRICS ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1001</th>
</tr>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Judith Aronson-Ramos, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>954-531-0847</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:info@draronsonramos.com">info@draronsonramos.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Desiree Guiliano OR Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ROTATION:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Pediatrics</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>Contact Dr. Aronson-Ramos directly via email to ask about date availability</td>
</tr>
<tr>
<td>VISITING STUDENTS:</td>
<td>No</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Only on Fridays</td>
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<td>TYPE:</td>
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</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview
This is an outpatient private practice rotation at the office of Dr. Aronson-Ramos in Coconut Creek, located in northern Broward county. This busy private practice sees children, teens, and young adults with diverse neuro-developmental issues. The practice has a family centered approach and considerable time is spent interviewing family members and observing and interacting with patients.

Students will learn about diagnostic assessments and treatment planning for the most common pediatric neuro-developmental problems. Common conditions the student will encounter include: autism spectrum disorders, ADHD, developmental delays, anxiety disorders, mild depression, syndromes, disruptive behavioral disorders, obsessive compulsive disorder, among other clinical issues.

Course Design
Students will work directly with Dr. Aronson-Ramos in a small intimate patient setting. The daily activities will primarily consist of observing assessments for new patients and follow up visits. Opportunities will exist to learn how to perform a variety of brief specific assessments of patients on a case by case basis such as: rating behaviors, IQ screening, and developmental evaluations. Students will learn the appropriate use and scoring of diagnostic assessment instruments. Hands on patient interaction will consist primarily of interview and play based interaction. This elective will be valuable to students interested in pediatrics, psychiatry, and family practice.

Location:
Developmental and Behavioral Pediatrics, 5350 West Hillsboro Blvd #207, Coconut Creek, Florida, 33073

Participating Faculty
Judith Aronson-Ramos, M.D.

Prerequisite
Completion of all core clerkships
**Expectations**
The student will be present for all patients seen Mon-Thurs for two weeks. It is suggested students bring their lunch for daily mid day review of morning cases which are traditionally all new patients.

**Hours:**  Monday - Thursday: 8:30-5:00 PM

**Student Evaluation and Grading**
The student will be evaluated by the Attending, and will be based upon attendance and participation in all aspects of the elective, including medical knowledge, patient care, interpersonal and communication skills, professionalism, and genuine interest in patients and their family’s concerns.

Reviewed January 2015
**RMC PEDIATRIC OTOLARYNGOLOGY**  
(Listed under both Otolaryngology and Pediatrics)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1002</th>
</tr>
</thead>
</table>
| CLERKSHIP DIRECTORS: | Zorik Spektor, MD, FAAP  
|                   | David J. Kay, MD, MPH, FAAP  
|                   | David L. Mandell, MD, FAAP, FACS |
| TELEPHONE:        | 561-736-8141   |
| EMAIL:            | XXX            |
| CONTACT:          | Joseph Sollecito, jsollecito@med.miami.edu, 561-886-1202 |
| LENGTH OF ELECTIVE: | 2 / 4 weeks   |
| PREREQUISITE:     | Core Surgery and Core Pediatrics |
| NUMBER OF STUDENTS: | 1             |
| AVAILABLE:        | All Year       |
| U.S. VISITING STUDENTS: | Yes        |
| INTERVIEWING TIME: | 1 day (2wks) OR 2 days (4wks), with prior approval |
| TYPE:             | Clinical       |

**Overview:**

1. This clinical elective will expose students to the subspecialty of Pediatric Otolaryngology—Head and Neck Surgery.  
   i) Students will have the opportunity to learn by seeing patients in our private office as well as assisting in the operating room.
2. This elective is designed with two different types student interests in mind, and will be individually tailored to the individual students interests  
   i) PRIMARY CARE TRACK  
      (1) For students interested in entering medical fields with a primary focus on treating children  
          (a) E.g. Pediatrics, Family Practice, etc.  
      (2) Students will learn evidence-based medical management of acute and chronic problems of the ears, nose, and throat in children  
      (3) Students will hone their diagnostic skills in pediatric otoscopy, rhinoscopy, and throat examinations with direct feedback  
      (4) Student will be exposed to common Pediatric ENT surgical procedures, so they can understand firsthand exactly what they involve  
   ii) SURGICAL SPECIALTY TRACK  
      (1) For students interest in becoming Otolaryngologists, or other related surgical fields  
          (a) E.g. pediatric surgery, neurosurgery, ophthalmology, plastic and craniofacial surgery, neuroradiology  
      (2) Students will complete all the objectives of the Primary Care Track  
      (3) Students will be exposed to surgical decision making and the criteria for medical vs. surgical management of Pediatric ENT disorders  
      (4) Students will experience performing pre-operative work-up and post-operative management of surgical cases  
      (5) Students will assist in more complicated Pediatric ENT surgical procedures

*Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.*
(6) Students will have the option of performing inpatient Pediatric ENT consultations

Course Design:
1. Students will be exposed to the practice of pediatric otolaryngology, including
   i) The medical management of patients in the clinic/office
   ii) The surgical management of patients in the operating room
2. Schedule for the ten-day course
   i) PRIMARY CARE TRACK
      (1) Students will spend 2-3 mornings a week in the operating room, watching routine surgeries, and
          learning about their indications, alternatives, risks, benefits and complications
      (2) Students will spend the remaining mornings and every afternoon in the office, examining and
          treating patients, with a focus on the most common pediatric otolaryngology conditions
      (3) Students will spend one half day with the pediatric audiologist, learning about the various
          modalities of pediatric hearing evaluation
   ii) SURGICAL SPECIALTY TRACK
      (1) Students will spend every morning in the operating room, assigned to the attending performing
          the most interesting cases of the day
      (2) Students will be hands-on in the operating whenever they can; however, in the interest of
          patient safety, the majority of the surgical training will be observational
      (3) Students will spend every afternoon in the office, examining and treating patients, with a focus
          on the most complicated pediatric otolaryngology cases
      (4) Students will spend one half day with the pediatric audiologist, learning about the various
          modalities of pediatric hearing evaluation
      (5) Students will have the option of rounding with the attending seeing hospital consults in the
          evening and weekends (definitely not required; just available if there is a strong interest)

Goals/Objectives:
1. The goals of this course are to:
   i) PRIMARY CARE TRACK
      (1) Familiarize students with treatments for pediatric ear, nose, and throat disorders
      (2) Improve students’ accuracy and validity of their pediatric ear physical examinations
      (3) Familiarize student with pediatric audiologic testing
   ii) SURGICAL SPECIALTY TRACK
      (1) All the above, plus
      (2) Familiarize students with functional pediatric otolaryngology
      (3) Introduce students to pediatric otolaryngology surgical procedures
2. After this elective, the student should be able to:
   i) PRIMARY CARE TRACK
      (1) Understand the medical treatments for recurrent acute and chronic otitis media and for acute
          and chronically draining ears
      (2) Distinguish between otitis media and otitis externa on physical examination
      (3) Distinguish between conductive and sensorineural hearing loss, and understand the
          implications on diagnostic and therapeutic interventions
      (4) Understand the indications for tympanostomy tube placement
      (5) Distinguish allergic from infectious sinonasal disease based on history and physical exam
      (6) Understand the medical treatment algorithm for rhinosinusitis in children
      (7) Distinguish obstructive sleep apnea from primary snoring based on history, and appreciate the
          role and results of pediatric polysomnography
      (8) Understand the indications for tonsillectomy and adenoidectomy
      (9) Recognize the signs and symptoms of stridor
      (10) Recognize abnormal findings in the pediatric head and neck examination as distinct from
           normal variants
   ii) SURGICAL SPECIALTY TRACK
(1) All the above, plus become introduced to evaluation of and the surgical treatment algorithm and/or management for the above conditions.
(2) Appreciate the roles and techniques of pediatric sinus endoscopy, nasopharyngoscopy, and laryngoscopy
(3) Understand the anatomy of the pediatric larynx and its implications for phono-aero-digestive disorders
(4) Have the opportunity to participate in a clinical research project
   (a) May extend beyond the timeframe of the elective itself

Location:
1. All patients will be seen at the Center for Pediatric ENT—Head and Neck Surgery
   i) Located in Bethesda Health City in Boynton Beach, Palm Beach County
2. The majority of the surgeries will occur at the following facilities
   i) Bethesda Outpatient Surgery Center
   ii) Bethesda Memorial Hospital
   iii) West Boca Medical Center

Participating Faculty:
- Zorik Spektor, MD, FAAP
- David J. Kay, MD, MPH, FAAP
- David L. Mandell, MD, FAAP, FACS
- All are board-certified fellowship-trained pediatric otolaryngologists

Prerequisite: Core Surgery and Core Pediatrics

Expectations:
- What are the expectations for the student? Be specific

Student Evaluation and Grading:
1. The participating faculty will subjectively evaluate the students.
2. Grading will be pass/fail based on
   i) Attendance
   ii) Motivation
   iii) Ability to apply learned information to new patient encounters

Reviewed January 2015
PHYSICAL MEDICINE AND REHABILITATION
**BRAIN INJURY NEUROREHAB**

<table>
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<tr>
<th>COURSE CODE:</th>
<th>MDR 848</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Gemayaret Alvarez, M.D.</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:GAlvarez3@med.miami.edu">GAlvarez3@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Coretha Davis (JMH Institute, 5th Floor, Room 532B)</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cdavis@med.miami.edu">cdavis@med.miami.edu</a></td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1431</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Neurology</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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**Overview/Course Design:**
This elective is intended for medical students who have completed the neurology core clerkship rotation.

During the elective, the medical student will spend time on the Ryder Trauma 4th floor Neurorehab service, shadowing the Rehab attending on daily rounds. There is an opportunity to get involved in clinical research activities that are ongoing in the division. **Students will also have the opportunity to become familiar with Botulinum toxin injections and Baclofen pumps.**

**Goals/Objectives:**
Students will be exposed to and participate in the care of patients undergoing neurorehabilitation.

**Location:** JMH Trauma Center (100%)

**Prerequisite:** Neurology required rotation

**Expectations:**
There is no call.

**Student evaluations and grading:**
Supervising attending and residents will complete evaluation forms documenting student performance on the elective in the following categories: (1) patient evaluation skills, (2) data gathering and problem solving, (3) fund of knowledge, (4) case presentations, (5) patient write-ups and progress notes, (6) personal qualities, (7) ward activities and responsibilities, and (8) communication and interpersonal relationships.

Revised November 2015
PHYSICAL MEDICINE AND REHABILITATION

<table>
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<tr>
<th>COURSE CODE:</th>
<th>MDR 900</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Seema Khurana, D.O.</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Coretha Davis (JMH Institute, 5th Floor, Room 532B)</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cdavis@med.miami.edu">cdavis@med.miami.edu</a></td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1431</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 Weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine &amp; Surgery</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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Overview: This elective provides a variety of settings to experience and learn about the field of physical medicine and rehabilitation.

Course Design: Elective Settings:

**Clinical Adult In-Patient Service**

**Supervising physicians:** Dr. Gemayaret Alvarez, Dr. Seema Khurana, Dr. Kevin Dalal, and Dr. Lucinda Arenas

**Site:** Jackson Memorial Hospital Rehab-2 Annex Building

Students will participate in the inpatient rehabilitation care of persons with any neurologic and orthopedic diagnoses. They will initially attend and later participate in interdisciplinary meetings. Interaction with other rehabilitation disciplines will be promoted. The students are expected to utilize their skills in performing patient histories and physical examination, and follow-up patients. In addition to the core course objectives, they are expected to learn the following:

4. Medical management of neurogenic bowel and bladder dysfunction.
5. Recognition of acute medical complications associated with the patient’s injury.
6. Definition of concepts of impairment, disability, and handicap (World Health Organization) and application of these concepts clinically.

**Clinical Adult Consultation Service**

**Supervising Physicians:** Dr. Seema Khurana, Dr. Diana Cardenas, Dr. Kevin Dalal, Dr. Gemayaret Alvarez, and Dr. Lucinda Arenas

**Site:** Jackson Memorial Hospital

An attending physician will supervise students as they provide rehabilitation consultation to inpatients at Jackson Memorial Hospital. The students are expected to utilize their skills in performing patient histories and physical examination, and follow-up of patients. In addition to the core course objectives, they are expected to learn the following:

1. Formulation of rehabilitation diagnoses and identification of patients who should be admitted to a comprehensive in-patient rehabilitation program.
2. Identification of other extended rehabilitation settings for a patient with rehabilitation needs post-discharge.

**Clinical Adult Outpatient Service**

**Supervising Physicians:** Dr. Andrew Sherman, Dr. Seema Khurana, Dr. Diana Cardenas, Dr. Kevin Dalal, Dr. Gemayaret Alvarez, Dr. Robert Irwin, Dr. Jose Mena, Dr. Vasquez-Duarte, Dr. Erin Wolff, Dr. Tamar Ference, Dr. Lucinda Arenas, and Dr. Shaun Corbett

**Sites:** University of Miami Hospital and Clinics Spine Institute, Jackson Memorial Hospital Private Clinic and Staff Clinic

An attending physician will supervise students as they provide rehabilitation consultation for patients with a variety of musculoskeletal and neurological disorders, and chronic pain. They can also participate in the out-pt staff SCI Clinic, and rounds from related specialties such as Neurosurgery and Orthopedics. Opportunity will be provided to observe electrodiagnostic procedures and injections. In addition to the core course objectives, they are expected to learn the following:

1. Performance of a complete manual muscle test and range of motion testing
2. Performance of a focused evaluation of the spine
3. Physiatric evaluation and management of low back and neck pain
4. Proper prescription of therapy orders

**Rehabilitation Research**

**Supervising physician:** Dr. Douglas Johnson-Greene, Dr. Diana Cardenas, Dr. Seema Khurana, and Dr. Elizabeth Felix.

**Sites:** Jackson Memorial Hospital

Students will be supervised in the development of research questions and hypotheses, formulation of effective methodology, and identification of different sources for collaboration and funding for rehabilitation research. Students who choose to participate in this elective will be strongly supported to present a poster or publish an abstract of the project undertaken during this elective time. Students may also choose to participate in ongoing research at any of the above sites.

A combination of different elective settings will be provided during each rotation to enhance a broad exposure to Rehabilitation Medicine. The student and clerkship coordinator, prior to the start of the elective rotation will design this.

**Conference and Clinic Schedule:**

The medical student can participate in any of these conferences as discussed with the clerkship coordinator prior to the start of the rotation. The student cannot attend the clinics without prior notice.

**Monday**
8:30 am Welcome & Schedule - Coretha Davis
9:00-10:30am Interdisciplinary in-patient rounds JMH Rehab

**Tuesday**
7:00-8:00am Clinical Walk Rounds
Ortho Spine Rounds
9:00- 4:00pm EMG Clinic/ UMHC- Dr. Andrew Sherman

**Wednesday**
8:00am-12:00pm Staff Spinal Cord Injury Clinic/ JMH
12:00 – 1:00pm Miami Project to Cure Paralysis Seminar Series – LPLC 7th Floor
1:00- 2:30pm Seating Clinic JMH 2nd Floor Gym

**Thursday**
7:00-8:00am  Orthopedics Grand Rounds / Mailman Center Auditorium.
7:00-9:00am  Neurosurgery Grand Rounds / Lois Pope LIFE Center, 7th Floor

Friday
7:00-8:00am  MRI Spine Rounds- DTC Room 251
8:00 am – 12:00 pm  Rehabilitation Medicine Didactic Lectures

Goals /Objectives:
- Become familiar with Physical Medicine and Rehabilitation (PM&R) as a specialty
- Learn the scope and practice of PM&R
- Understand appropriate situations for referral to PM&R
- Perform a focused medical and functional history and examination, formulate rehabilitation diagnoses and problem list, and construct a comprehensive rehabilitation plan
- Understand the roles of the various disciplines in an interdisciplinary rehabilitation team

Location:  Jackson Memorial Hospital – 50% and University of Miami Hospital and Clinics – 50%

Participating faculty:
Seema Khurana, DO, Medical Student Elective, Program Director, Assistant Professor; Diana D. Cardenas, MD, MHA, Professor and Chair; Andrew Sherman, MD, MS, Associate Professor; Kevin Dalal, MD, Assistant Professor; Elizabeth Felix, PhD, Research Assistant Professor; Tamar Ference, M.D., Assistant Professor; Robert Irwin, M.D., Assistant Dean for Student Affairs & Associate Professor; David Kushner, MD, Associate Professor; Jose Mena, MD, Assistant Professor; Gemayaret Alvarez, MD, Assistant Professor; Erin Wolff, MD, Assistant Professor; Lucinda Adriana Arenas, MD, Assistant Professor; Ricardo Vasquez Duarte, MD Assistant Professor

Prerequisite:  Completion of Internal Medicine and Surgery core clerkships

Expectations:  Key Responsibilities while on elective:

1.  Participation in morning rounds and didactic and patient conferences
2.  Attendance in out-patient clinics
3.  Participation in the medical care of 2-4 patients in the in-patient rehabilitation unit which will include obtaining a physical history and physical examination, writing progress notes, and attending interdisciplinary rounds.
4.  Participation in the in-patient consultation service which will include obtaining a physical history and physical examination, and writing assessments, and recommendations.

Reading List:  Reading materials will be available during the rotation.

Reference Textbook:

Student evaluations and grading:
Evaluation will be based on overall interest, enthusiasm, and clinical performance utilizing the standard medical school evaluation forms. The faculty member that has interacted with the student the most will perform this evaluation.

Revised January 2015
WPB VA PHYSICAL MEDICINE & REHABILITATION ELECTIVE

<table>
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<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Ramon Cuevas-Trisan, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-422-5672</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ramon.cuevas-trisan@va.gov">ramon.cuevas-trisan@va.gov</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Core Internal Medicine Clerkship</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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</tbody>
</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and background checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
The purpose of this rotation is to provide the medical student with an introduction to the field of PM&R with emphasis on basic assessment and management options for common musculoskeletal disorders and neurological conditions affecting physical function. The rotation takes place mostly in the outpatient clinic setting with opportunities to also learn in other settings such as a nursing home or acute general hospital. There is also exposure to electrodiagnostic medicine and pain management.

Course Design:
The student will spend most of time in the outpatient PM&R clinics at the West Palm Beach VAMC. These are general rehabilitation clinics as well as sub-specialized clinics including pain management clinics, electrodiagnosis clinics, and amputee clinics. There will be opportunities for interested student to also rotate through cardiac rehabilitation clinics and to participate in rehabilitation rounds for inpatients. The pain management program can also provide students exposure to complementary treatment modalities including acupuncture and chiropractic. The student will have ample opportunity to participate in the performance of multiple office-based procedures including joint injections. Students will attend and participate in all PM&R didactic activities including conferences and Journal Club, usually held twice per month.

Goals:
- Learn and apply the physical examination of the neuro-musculoskeletal system.
- Learn how and when to order diagnostic testing for the patient patients with neuro-musculoskeletal complaints, including imaging studies and electrodiagnostic tests.
- Learn how to adequately assess pain and impairment.
- Learn about treatment options for the management of painful neuro-musculoskeletal conditions including appropriate physical therapy, medication management, and interventional management.
- Learn about the physiology of exercise in the cardiac and musculoskeletal systems.
- Review the importance of appropriate exercise as a preventive strategy in cardiac and musculoskeletal disorders, including arthritis and back pain.
- Observe and assist the preceptor with office-based interventional pain management procedures.
Objectives:
The medical student will be expected to become familiar with the basic evaluation and management of:
- Spinal Pain
- Joint and Soft Tissue Pain
- Peripheral Entrapment Neuropathies
- Rehabilitation needs of patients with CNS disorders
- Rehabilitation needs of patients following Orthopedic procedures
- Rehabilitation needs of patients following amputations
- Patients with chronic intractable non-malignant pain syndromes
- Rehabilitation needs and precautions for patients with cardiac disease

Location:
West Palm Beach VA Medical Center – PM&R Service (suite 3B-209).

Participating Faculty:
Faculty from the Physical Medicine & Rehabilitation Service at the West Palm Beach, VA, including the Pain Management program.

Prerequisite:
Completion of Internal Medicine Core Clerkship.

Expectations:
Attendance and participation to all clinical assignments and didactic activities of the Service. The clerkship director needs to be notified of any absences. Professionalism (in all aspects) will be expected at all times.

Student Evaluation and Grading:
The medical student will receive a written evaluation at the end of the rotation. This will be discussed with the student by a member of the faculty and will review their performance within each of the above expectations. The medical student will complete a rotation evaluation at the end of the rotation. The student will complete a faculty evaluation at the conclusion of the rotation. (submitted to the Medical School)

Reviewed January 2015
PSYCHIATRY
FORENSIC PSYCHIATRY

COURSE CODE: MDR 1024
CLERKSHIP DIRECTOR: Spencer Eth, MD, 305-575-3301
TELEPHONE: 305-243-3075
EMAIL: seth@med.miami.edu
CONTACT: Cary Fratacci RMSB #2100 cfratacc@med.miami.edu
LENGTH OF ELECTIVE: 2 / 4 weeks
PREREQUISITE: Psychiatry Clerkship
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S. VISITING STUDENTS: No
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

OVERVIEW
This is a 2 or 4-week elective intended to expose the senior medical student to a spectrum of experiences in forensic psychiatry. The student will spend a portion of each week in various hospital and community settings that involve the clinical practice of aspects of forensic psychiatry.

COURSE DESIGN
The student will spend time most of their time during this elective at Jackson Memorial Hospital on the psychiatric competency restoration unit, with additional experiences with the Miami VA homeless program, the VA health law clinic, and the VA suicide prevention program. The student will also have an opportunity to visit the nearby Miami-Dade County criminal court and meet with a prosecutor. All students will meet with Dr. Eth, the rotation coordinator, weekly, and will receive instruction from Dr. Regina Carney, the medical director of the competency restoration unit. Drs. Ed Olsen, and Vickki Samuel, who are also members of the forensic psychiatry faculty, will teach the student during the Miami VA activities. The students will also interact on a daily basis with the forensic psychiatry fellows.

GOALS
A. Review and apply basic psychiatric principles, relevant legal concepts, and cognitive skills as they relate to criminal and civil issues in forensic psychiatry.
B. Familiarize the medical student with conducting psychiatric examinations that focus on legal issues, understand the general indications for the forensic psychiatry consultation, and observe psychiatric interactions with forensic patients, especially when the student has been involved in the evaluation of the patient.
C. Reinforce a critical approach to the medical literature.

OBJECTIVES
A. The medical student will be expected to be familiar with the basic knowledge of the psychiatric and legal literature relevant to the epidemiology, etiology, prevention diagnosis, evaluation and management of major mental disorders, and multimodal treatment of psychiatric disorders among correctional patients, including those who are charged with committing violent offenses.
B. The medical student will be expected to assist in evaluating and treating individuals involved in a correctional jail diversion program using interviewing techniques that are respectful and culturally sensitive. The student will be expected to analyze the clinical data in order to delineate a differential diagnosis and develop a biopsychosocial treatment plan.
C. The medical student will be expected to conduct chart reviews and suicide and violence risk assessments of psychiatric inpatients and homeless veterans.
D. The medical student will be expected to identify salient issues in the evaluation of patients claiming psychiatric disability.

LOCATION
Jackson Memorial Mental Health Hospital (60%) and Miami VA Healthcare System (40%)

PARTICIPATING FACULTY
Faculty in Forensic Psychiatry

PREREQUISITE
Completion of Psychiatry Core Clerkship

EXPECTATIONS
- The student will be expected to participate in all activities described above and be on time.
- The rotation director (Dr. Eth) and the coordinator (Cary Fratacci) will be informed of all absences.
- Professionalism as mandated by the School of Medicine is expected.

STUDENT EVALUATION AND GRADING
5. The medical student will receive a written evaluation at the end of the month. This will be reviewed with the student by the faculty evaluator.
6. The student will be asked to complete an evaluation of the rotation as a whole upon completion to allow for continual improvement of the student experience.
7. Faculty performance will be evaluated by the medical student (submitted anonymously).

Created February 2015
MILITARY RELATED MENTAL HEALTH & GENERAL PSYCHIATRY @ VAMC

COURSE CODE: MDR 854
CLERKSHIP DIRECTOR: Dr Adriana Cortes, MD, 305-575-7000 ext 6307
TELEPHONE: 305-243-3075
EMAIL: Adriana.Cortes@va.gov
CONTACT: Cary Fratacci RMSB #210 cfratacc@med.miami.edu
LENGTH OF ELECTIVE: 2 wks / 4 wks
PREREQUISITE: Psychiatry Clerkship
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S. VISITING STUDENTS: No
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

Overview:
The medical student will be involved in the care of patients with a wide spectrum of psychiatric conditions but specific emphasis will be placed on those disorders that are related to military life and exposure to combat. The student will rotate through different clinics at the Miami VA. This rotation will give the medical student the opportunity to work with patients in different settings, such as Outpatient psychiatry, Consultation Liaison Psychiatry, and Primary Care.

Course Design:
The student will have the opportunity to rotate in Outpatient Clinics, including the Operation Iraqi Freedom (OIF) clinic and the Mental Health Fast Track Clinic. In the OIF Clinic the medical student will participate in the care of patients with Post Traumatic Stress Disorder (PTSD) and Traumatic Brain Injury (TBI). The Mental Health Fast Track Clinic will give the medical student the opportunity to evaluate patients that are new to the Mental Health System at the Miami VA.

The medical student will also have the opportunity to work in the Mental Health Primary Care Geriatric Psychiatry Clinic. This clinic operates on a collaborative model between Primary Care and Psychiatry. During this rotation the medical student will become familiar with the diagnosis and management of older adults.

The medical student will also have inpatient experience with the Consultation & Liaison (C&L) team. The C&L team serves as the interface between medicine and psychiatry. This rotation will provide the medical student with exposure to a wide variety of Psychiatric disorders in the context of inpatient hospital care.

The student will also participate in the didactic lectures designed for medical students at the University of Miami and in the Psychiatry Grand Rounds.

Goals / Objectives:
1. Demonstrate the ability to develop a complete Psychiatric diagnostic interview and perform complete mental status examination.
2. Recognize, diagnose and formulate accurate differential diagnoses for major psychiatric disorders like Post Traumatic Stress Disorder, Traumatic Brain Injury, Major Depressive Disorder, Bipolar Disorder, Schizophrenia, Dementia and Delirium and in addition, other psychiatric emergencies like suicidal behaviors.
3. Develop appropriate assessments, treatment and management plans for patients with Psychiatric disorders.
Location:
Miami Veterans Administration Medical Center, Mental Health and Behavioral Sciences Service (100%).

Participating Faculty:
- Idriz Kovacevic, MD
- Alexander Perez, MD
- Fernando Pomeraniec, MD
- Gabriel Martinez, MD
- Adriana Cortes, MD

Prerequisite:
Psychiatry Clerkship

Expectations:
1. During the rotation the student will be interviewing patients, obtaining collateral information. The student will be discussing every single patient with the respective attending. The discussion should include: chief complaint, history of present illness, prior psychiatry history, family psychiatry history, medical history, current medications, mental status exam, psychiatric diagnosis (using the five axes diagnosis) and management. Progress notes should be titled: “Student note”. The note has to be cosigned by the Psychiatry attending.
2. The medical student will be expected to participate in all activities (clinical rounds, didactics, Grand rounds) and be on time. The rotation coordinator needs to be informed of all absences. Professionalism as mandated by the School of medicine is expected.
3. The medical student will be expected to be familiar with the diagnosis and management of the following disorders: Post Traumatic Stress Disorder, Traumatic Brain Injury, Major Depressive Disorder, Bipolar Disorder, Schizophrenia, Dementia and Delirium.

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8am-12 noon</td>
<td>OIF clinic Dr Kovacevic C 406</td>
<td>Psychiatry Fast Track Dr Perez C406</td>
<td>Geri Clinic Dr Cortes Primary Care Clinic Office #: 1D198</td>
<td>Geri Clinic Dr Cortes Primary Care Clinic Office #: 1D198</td>
<td>Consultation Liaison Dr Pomeraniec Office #: C509c</td>
</tr>
<tr>
<td>12 noon- 1pm</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Grand Rounds</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>1pm- 4:30pm</td>
<td>OIF clinic Dr Kovacevic C406</td>
<td>Psychiatry Fast Track Dr Perez C406</td>
<td>Geri Clinic Dr Cortes Primary Care Clinic Office #: 1D198</td>
<td>Didactics</td>
<td>Psychiatry Fast Track Dr Martinez C406</td>
</tr>
</tbody>
</table>
Student Evaluation and Grading:
1. The last Friday of the rotation the medical students will present a 20-30 min Power Point Presentation of a clinical case they followed during their rotation. This clinical presentation needs to be paired with an article related to the case being discussed.
2. The medical student will receive a written evaluation at the end of the month. Grade is Pass/Fail
3. The student will be evaluated in the following areas:
   - History taking, interviewing and mental status examination skills.
   - Oral case presentations, written notes.
   - Interpretation and management skills.
   - Fund of knowledge and self direct learning.
   - Professional attitude and communication skills.

Revised January 2015
PSYCHIATRY (Child & Adolescent)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 901</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Jorge L. Sotelo, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-3075</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsotelo@med.miami.edu">jsotelo@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Cary Fratacci RMSB #2100 <a href="mailto:cfratacc@med.miami.edu">cfratacc@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Psychiatry</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

Overview/Course Design:
Various clinical services are utilized for undergraduate and post-graduate training in Child & Adolescent Psychiatry: the Children’s Inpatient Unit and the Child & Adolescent Outpatient Clinic

Students may be assigned to one or a combination of these services where they will have a supervised experience.

Goals/Objectives:
Students will be exposed to and will participate in the care of children and adolescent patients with psychiatric disorders.

Location:
JMH (100%)

Participating Faculty
Faculty from the Department of Psychiatry

Prerequisite:
Completion of psychiatry core clerkship

Expectations:
All services require student participation Monday through Friday 8 am to 5 pm. Times and shifts may vary depending on the clinical assignment.

Student evaluations and grading:
Students are evaluated by the course instructor or his/her designee. They are judged on their professionalism, clinical skills commensurate with their level of training, and on their level of participation. Attendance is a must for all assigned conferences, rounds and/or presentations. Final grades are reported as a “Pass” or “Fail.”

Reviewed January 2015
PSYCHIATRY (Consultation-Liaison Service)

<table>
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<tr>
<th>COURSE CODE:</th>
<th>MDR 902</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Jorge L. Sotelo, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-3075</td>
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<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsotelo@med.miami.edu">jsotelo@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Cary Fratacci RMSB #2100 <a href="mailto:cftracc@med.miami.edu">cftracc@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2/4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Psychiatry</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</table>

Overview/Course Design:
This service is responsible for consultations to non-psychiatric inpatients and for various liaison activities with other services and units of the general hospital. Students under supervision will respond to consultation requests in evaluating the patient and making recommendations to the referring physician. They will join faculty members in their liaison work and attend regularly scheduled seminars and consultation reviews.

Goals/Objectives:
The experience presents an opportunity to better understand the doctor-patient relationship in a non-psychiatric setting, to understand doctor – doctor relationships, gain a more holistic view of disease states, specifically those in the psychosomatic spectrum.

Location:
JMH (100%)

Participating Faculty
Faculty from the Department of Psychiatry

Prerequisite:
Completion of psychiatry core clerkship

Expectations:
All services require student participation Monday through Friday 8 am to 5 pm. Times and shifts may vary depending on the clinical assignment.

Student evaluations and grading:
Students are evaluated by the course instructor or his/her designee. They are judged on their professionalism, clinical skills commensurate with their level of training, and on their level of participation. Attendance is a must for all assigned conferences, rounds and/or presentations. Final grades are reported as a “Pass” or “Fail.”

Reviewed January 2015
# PSYCHIATRY (Geriatric)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 903</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Jorge L. Sotelo, M.D.</td>
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<tr>
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<td><a href="mailto:cfratacc@med.miami.edu">cfratacc@med.miami.edu</a></td>
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<td>LENGTH OF ELECTIVE:</td>
<td>2/4 weeks</td>
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<td>PREREQUISITE:</td>
<td>Psychiatry</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
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**Overview/Course Design:**
The Department of Psychiatry offers an elective in Geriatric Psychiatry. The elective can be tailored to the student’s special needs. Clinical experiences focus on diseases that are more prevalent in the geriatric population such as delirium and dementia.

**Goals/Objectives:**
Students will be exposed to the different manifestations that psychiatric illness presents with in geriatric patients.

**Location:**
JMH (100%)

**Prerequisite:**
Completion of psychiatry core clerkship

**Student evaluations and grading:**
Students are evaluated by the course instructor or his/her designee. They are judged on their professionalism, clinical skills commensurate with their level of training, and on their level of participation. Attendance is a must for all assigned conferences, rounds and/or presentations. Final grades are reported as a “Pass” or “Fail.”

Reviewed January 2015
PSYCHIATRY IN-PATIENT CLERKSHIP  [JMH/UMH]

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<tr>
<th>COURSE CODE:</th>
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</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<tr>
<td>PREREQUISITE:</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

Overview/Course Design:
This elective allows students to diagnose and manage a variety of psychiatric disorders. This includes patients with mood disorders, psychotic disorders and other conditions that require psychiatric hospitalization. Under the supervision of attending physicians students will manage patients with a variety of therapeutic techniques available for their treatment. We have several units available for this elective:

- 2 Inpatient units for acutely ill adult psychiatric patients - JMH
- 1 dual diagnosis unit (treatment of acute substance abuse, detox and psychiatric disorders) – JMH
- 1 inpatient unit for Mood Disorders - UMH

Goals/Objectives:
Students will be exposed to and will participate in the inpatient care of patients with psychiatric disorders.

Location:
JMH – 100% (80% of students) or UMH – 100% (20% of students)

Participating Faculty
Faculty from the Department of Psychiatry

Prerequisite:
Completion of psychiatry core clerkship

Expectations:
All services require student participation Monday through Friday 8 am to 5 pm. Times and shifts may vary depending on the clinical assignment.

Student evaluations and grading:
Students are evaluated by the course instructor or his/her designee. They are judged on their professionalism, clinical skills commensurate with their level of training, and on their level of participation. Attendance is a must for all assigned conferences, rounds and/or presentations. Final grades are reported as a “Pass” or “Fail.”

Reviewed January 2015
PSYCHIATRIC EMERGENCY SERVICE (Crisis Intervention)

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<tr>
<th>COURSE CODE:</th>
<th>MDR 905</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
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<tr>
<td>CONTACT:</td>
<td>Cary Fratacci RMSB #2100 <a href="mailto:cfrracc@med.miami.edu">cfrracc@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks only</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Psychiatry</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
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</table>

Overview/Course Design:
This course provides students with the opportunity to be involved in the diagnosis and therapy of selected patients presenting to the Psychiatric Emergency Room.

Goals/Objectives:
The student will be assigned to the Psychiatric Emergency Room. The student will then be able to observe a wide range of acute psychiatric emergencies and learn to handle these in an appropriate manner. The student will begin to develop concepts of psychiatric diagnosis, nomenclature and treatment applicable to the acute situation. Also, under supervision, the student will see acute psychiatric consultations as requested. Students should consider this elective interested in a career in Emergency Room Medicine or Family Medicine besides those students interested in Psychiatry.

Location:
JMH Crisis (100%)

Participating Faculty:
Faculty from the Department of Psychiatry

Prerequisite:
Completion of psychiatry core clerkship

Expectations:
All services require student participation Monday through Friday 8 am to 5 pm. Times and shifts may vary depending on the clinical assignment.

Student evaluations and grading:
Students are evaluated by the course instructor or his/her designee. They are judged on their professionalism, clinical skills commensurate with their level of training, and on their level of participation. Attendance is a must for all assigned conferences, rounds and/or presentations. Final grades are reported as a “Pass” or “Fail.”

Revised January 2015
PSYCHIATRY (Ambulatory Special Elective)

<table>
<thead>
<tr>
<th>COURSE CODE: MDR 906</th>
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</thead>
<tbody>
<tr>
<td>COURSE DIRECTOR: Jorge L. Sotelo, M.D.</td>
</tr>
<tr>
<td>TELEPHONE: 305-243-3075</td>
</tr>
<tr>
<td>EMAIL: <a href="mailto:jsotelo@med.miami.edu">jsotelo@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT: Cary Fratacci RMSB #2100 <a href="mailto:cfratacc@med.miami.edu">cfratacc@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE: 2 weeks</td>
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<tr>
<td>PREREQUISITE: Psychiatry</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS: 1</td>
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<tr>
<td>AVAILABLE: All year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS: Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME: 1 day (2wks), with prior approval</td>
</tr>
<tr>
<td>TYPE: Clinical</td>
</tr>
</tbody>
</table>

Overview/Course Design:
This course provides students with the opportunity to be involved in the diagnosis and therapy of selected patients presenting to the outpatient clinics at the Mental Health Center. Individual supervision will be aimed at exposing the student to the range of psychiatric disorders that can be managed in an outpatient basis such as anxiety disorders, depression, etc. The students will be exposed to different therapeutic modalities used to treat these problems including psychopharmacologic treatments, cognitive behavioral therapy, and group therapy.

Goals/Objectives:
Students will be exposed to and will participate in the outpatient care of patients with psychiatric disorders.

Location:
JMH (100%)

Participating Faculty:
Faculty from the Department of Psychiatry

Prerequisite:
Completion of psychiatry core clerkship

Expectations:
All services require student participation Monday through Friday 8 am to 5 pm. Times and shifts may vary depending on the clinical assignment.

Student evaluations and grading:
Students are evaluated by the course instructor or his/her designee. They are judged on their professionalism, clinical skills commensurate with their level of training, and on their level of participation. Attendance is a must for all assigned conferences, rounds and/or presentations. Final grades are reported as a “Pass” or “Fail.”

Reviewed January 2015
**ADDICTION PSYCHIATRY ELECTIVE AND ADDICTION MEDICINE ELECTIVE**  
**WELLINGTON RETREAT**

**COURSE CODE:** MDR 965  
**ON HOLD 2015-2016**

**COURSE DIRECTOR:** Robert A Moran, M.D., F.A.P.A.

**TELEPHONE:** 561-296-5288

**EMAIL:** Jorge Sigler (Dr. Moran’s assistant) - zjsigler@wellingtonretreat.com

**CONTACT:** Joseph Sollecito, jsollecito@med.miami.edu, 561-886-1202

**LENGTH OF ELECTIVE:** 4 weeks

**PREREQUISITE:** Completion of Core Clerkships

**NUMBER OF STUDENTS:** 2

**AVAILABLE:** All year

**U.S. VISITING STUDENTS:** Yes

**INTERVIEWING TIME:** 2 days with prior approval

**TYPE:** Clinical

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**Please contact a minimum of 2 weeks before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance.**

**Overview:** Medical students get hands on experience about psychiatric and addiction. Their first week they learn to recognize the symptoms and gain interview techniques. They handle initial evaluations directly supervised by Dr. Moran who is triple board certified in Psychiatry, addiction and addiction medicine. He gives insight and shows how to define the symptoms and explains the comorbidity between addiction and other psychiatric diseases. Students attend to community meetings every day as well as adolescent community meetings and several groups (which usually takes all morning 8:30-12:00). They are shown the proper way to take notes on patients with psychiatric diseases. They are also shown the evolution of patients over time as they clean their system of opioids. Students are assigned certain patients and are encouraged to interact with them daily to witness and understand the gradual changes. Every day, everyone involved in the treatments (Doctors, Therapists, Clinical director, Coordinators director, Residents and the medical students) meet during lunch (12:30-13:30) to discuss the treatment of each patient; medical students are encouraged to participate since their contact with the patients and fresh outlook brings a good insight on the patient treatment. Our treatment is based on cutting edge research and we use DEA controlled substances that have proved to have a positive effect on patients; Medical students get to learn about these, their effects, dosage and possible combinations as well as keeping a close eye on the development of the patient.

On the subsequent weeks students are encouraged to take their own notes and discuss them openly with the treatment team as well as the doctor, they get assigned to run groups and are given more freedom to interact with the patients. Dr. Moran meets with the med students before treatment team and before the end of the day to review the student notes and teach them the proper presentation of these, he also gives them an experienced outlook on the current patients and their development, what to expect and explains any change in medication or dosage based on the patients vitals and reactions.

**Design:** The student would participate in the entire program, learning about comprehensive neuropsychiatric and medical assessment, differential diagnosis. They will utilize the American Society of Addiction Medicine’s Patient Placement Criteria, developing a dynamic treatment plan involving a multidisciplinary treatment team, and implementing the treatment through individual, group, family, and milieu therapy.
Goals and Objectives:
By the end of the month, the student will
- be exposed to a vast array of psychopathology;
- learn about and engage in the development of differential diagnosis and treatment planning;
- implement components of the treatment plan along with a multidisciplinary treatment team via individual and group modalities;
- experience multiple levels of care;
- observe the evolving response to all of these treatment interventions;
- learn about indicated psychopharmacologic intervention;
- understand the comorbidity between addiction and other mental diseases;
- gain an appreciation for addiction as a brain disease that is just as treatable as our other most common medical disorders.

Setting: The Wellington Retreat is an addiction and psychiatric treatment facility for both adults and adolescents. It offers all levels of care, including residential, partial hospital, intensive outpatient, and outpatient care. It is licensed by Department of Children and Families for Day/Night Treatment with Community Housing, and Intensive Outpatient Treatment. The Wellington Retreat provides the same level of care as a residential program. The patient population consists of both genders, 18 years and older (majority being 18 to 30 y/o); most with addiction (some with primary psychiatric disorders--Major Depression, Bipolar Disorder, Schizophrenia without addiction) and comorbid psychiatric and medical disorders. The addictions include diverse substances--alcohol, marijuana, cocaine, opiates, benzodiazepines. Substance-induced psychiatric syndromes are common. Some patients present in acute withdrawal and require detoxification which is conducted at our facility (except for complicated alcohol withdrawal which would be referred to an inpatient hospital setting).

Location: (100%)
The Wellington Retreat
2200 N Florida Mango Road
Suite 201
West Palm Beach, FL 33409

Participating Faculty: Dr. Robert A. Moran

Prerequisite: Completion of Core Clerkships

Expectations: The student will evaluate and follow at least two patients from their admission throughout the month, learning about history-taking, examination, diagnosis, and treatment planning, as it applies to his/her particular patients. We will provide regularly scheduled didactic sessions which will include such topics as mental status exam, neurobiology of addiction, detoxification, psychopharmacology, treatment of comorbid disorders, differential diagnosis, cognitive-behavioral therapy, motivation enhancement therapy, and 12-step facilitation.

Typical schedule of the program

8:30AM-11:00AM  Community meeting group
11:00AM-11:45AM  Individual
12:00PM-12:30PM  Meeting with Medical Director
12:30PM-1:30PM  Treatment Team
1:30PM-2:00PM  Caseload
2:15PM-3:15PM  Group
3:30PM-4:30PM  Group
The students would begin at 8:30AM by attending community meeting which is a group ran by the medical director which involves all of our Adult partial hospitalization program and some of our intensive outpatient and outpatient community. Afterwards they will join the doctor in a group with the adolescent community until noon when they will meet with the doctor who will discuss with them about what they have experienced with their patients and will answer questions the students may have. At 12:30 the students will attend Treatment Team where the staff meets to discuss and review the progress and plans for the patients. In the afternoon, during one of the group times (can vary from day to day depending on which group is occurring), the faculty will provide didactic sessions. Students handle the initial evaluation of new admissions under the doctor’s supervision.

Throughout the month, the student will also have exposure to other staff members to learn about the evidence-based treatment modalities. For example, doctorate level therapists can introduce principals of cognitive behavior therapy, motivation enhancement therapy, among others.

**Electronic Resources:**
Students will work with Electronic Medical Records (EMC) Kipu from stations designated for them and will also have 24-hour access to the University of Miami online resources which links them to a vast collection of resources needed for their education, for doing research and taking care of patients.

**Evaluations and Feedback:**
The supervising attending will provide verbal face-to-face feedback to the M4 student at the close of the second week and then again at the end of the rotation. The Attending will complete a written evaluation at the end of the rotation.

Students will be evaluated at the end of the rotation by the course director. It will be based on the achievement of the expectations of the student listed above, and active engagement in supervised patient care activities.

Revised November 2015
SOUTH COUNTY MENTAL HEALTH CLINIC PSYCHIATRY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 968</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Ann Laughlin, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>Joseph Sollecito, 561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:LaughlinA@SCMHINC.ORG">LaughlinA@SCMHINC.ORG</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ROTATION:</td>
<td>2-4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>No</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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</table>

Please contact a minimum of 2 weeks before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance.

Overview
This elective provides students with the opportunity to build upon their Psychiatry Core Clerkship experience by assuming increased responsibility for the diagnosis, treatment and management of psychiatric inpatients. Under the supervision of attending physicians, students will gain experience in the diagnosis and treatment of patients presenting with a wide range of psychopathology, including Mood Disorders, Psychotic Disorders and Substance Use Disorders. Students will gain experience in performing psychiatric evaluations, psychopharmacology and psychosocial interventions.

Course Design
Students will work one on one with the Faculty at the South County Mental Health Clinic. The students would serve as primary providers, with supervision, for patients with a wide variety of chronic and acute mental illness.

Location:  (100%)
South County Mental Health Center
Delray Beach, FL

Participating Faculty
Ann Laughlin, M.D. (Course Director)
Levi Cohen, M.D.
Marshal Folstein, M.D.
Arnold Hartman, M.D.
Efrain Mendez, M.D.
Sandeep Manderatta, M.D.
Patrick Pinchinat, M.D.
Marc Weiss, M.D.

Prerequisite
Completion of all core clerkships

Goals/ Objectives
The student will demonstrate competence in the evaluation of psychiatric inpatients, including the ability to elicit history and mental status findings, and to formulate a working diagnosis and differential diagnosis.

The student will demonstrate competence in developing a treatment plan that incorporates both psychopharmacological treatments and psychosocial interventions.

The student will demonstrate clinical reasoning commensurate with the level of a beginning resident.

The student will communicate and collaborate effectively with multidisciplinary staff.

The student will demonstrate the ability to work independently and seek appropriate supervision and feedback.

The student will demonstrate a commitment to excellence and maturation in professional development.

Expectations
The student will be responsible for the initial evaluation and daily documentation of patients in the inpatient psychiatry ward at South County. Working with the supervising psychiatrist, the student will develop an assessment and treatment plan for their assigned patients. The student will participate in meetings with patients and staff focused on further assessment and treatment of their patients.

Hours:
Monday - Friday, 8AM - 4PM (Times and shifts may vary depending on clinical assignment)

Student Evaluation and Grading
The student will be evaluated by the attending staff at South County Mental Health Center. The evaluation will be on a Pass-Fail Basis, and will be based upon attendance and participation in all aspects of the elective, including medical knowledge, patient care, interpersonal and communication skills, professionalism, practice-based learning and improvement, and systems-based practice.

Reviewed January 2015
PUBLIC HEALTH
# PUBLIC HEALTH CLERKSHIP

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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Amy R. Zito, MD and Sarah Bland, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:arzito@med.miami.edu">arzito@med.miami.edu</a> / <a href="mailto:Sarah.Bland@hcahealthcare.com">Sarah.Bland@hcahealthcare.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Amy R. Zito, MD and Sarah Bland, MD</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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## OVERVIEW
This is a 4-week required rotation for students in the MD/MPH track. This clerkship will expose them to the professional responsibilities and work flow of a physician trained and practicing public health. Each week the student will be rotating through various clinics within the health department. They will also have weekly interaction with the Department of Health preventive medicine residents.

## COURSE DESIGN
The student will spend time at the Palm Beach County Health Department administrative offices interacting in didactic sessions and journal club presentation with the Preventive Medicine Residents. The didactic curriculum will be linked to the residency program curriculum. Students will be scheduled to rotate through the health department’s HIV and sexual health clinics (OB/GYN, STD and family planning). Students will also rotate in the JFK Internal Medicine Residency continuity clinic. They will participate in the residency clinic ambulatory didactic, journal club and interdisciplinary psychology conferences. Students will also have dedicated time to complete their fieldwork and capstone during the rotation. Students will receive a final grade (P/F), based on clinical evaluations, participation in didactics, assigned tasks and a final journal club presentation.

## GOALS
1. Familiarize the medical student with
   a. the role of public health providers
   b. the role and goal of preventive medicine residencies
2. Familiarize student with available and needed resources for underserved population.
3. Understand importance of knowing and incorporating population-based data, and understanding of the health care delivery system in the treatment of patients.
4. Reinforce the importance of prevention and treatment from a community health perspective.
5. Review and apply basic scientific principles, pathophysiology, clinical laboratory method and cognitive skills as they relate to the diagnosis and treatment of communicable diseases.
6. Reinforce public health research hypothesis and study designs.
7. Work closely with community partners and organizations to finalize fieldwork and capstone projects.
8. Understand the importance of providing culturally competent care.
9. Understand the importance of advocacy for vulnerable patient populations and elimination of health disparities.
OBJECTIVES
1. The medical student will be expected to participate in weekly didactic sessions that are linked with the preventive medicine residency curriculum and ambulatory care residency curriculum.
2. The medical student will be expected to present a journal club presentation at the end of the rotation.
3. The medical student will work closely with public health providers in various clinics of the Palm Beach County Health Department.
   a. HIV clinic
   b. STD clinic
   c. Family Planning clinic
   d. OB/Gyn clinic
4. The medical student will be expected to be familiar with the basic evaluation and management of the following:
   a. HIV/AIDS
   b. Gonorrhea
   c. Chlamydia
   d. Trichomoniasis
   e. Hepatitis B
   f. Syphilis
   g. Human Papilloma Virus
   h. Bacterial vaginosis
   i. Herpes
   j. Prenatal care in underserved communities
   k. Family planning treatment options and counseling
   l. PAP screening and guidelines
5. The medical student will work closely with residents and faculty from the UM Regional Internal Medicine residency program in their underserved primary care clinic.
   a. The student will see patients on a continuity basis throughout the month.
   b. The student will participate in weekly ambulatory didactic sessions that are linked to the residency curriculum.
   c. The student will participate in the monthly ambulatory journal club and case presentations that are linked to the residency curriculum.
   d. The student will participate in the biweekly interdisciplinary psychology conference.
6. Students will have dedicated time (weekly) to complete fieldwork experience and capstone project.

LOCATION
- Department of Health Administrative office (12.5%)
- Department of Health 45th street clinic (10%)
- Department of Health Delray Clinic (20%)
- Department of Health Lantana clinic (10%)
- JFK Ambulatory clinic (22.5%)
- Field work (25%).

PARTICIPATING FACULTY
- PBCHD Delray Clinic – Dr. Charles Gonik
- PBCHD Lantana/Lake worth Health Center – Dr. Helena DeCarvalho
- PBCHD 45th Street clinic – Dr. Maryann Cabrera
- PBCHD Preventive Medicine Residency program – Dr. Savita Kumar and Dr. Robert Parkes
- Dr. Ron Wiewora, CEO of Health Care District of Palm Beach County
- JFK Ambulatory clinic:
  o Dr. Vicki Britton
Dr. Stuart Bagatell
Dr. Sarah Bland
Dr. Andrew Fischer
Dr. Frederick Williams

**PREREQUISITE**
Completion of Public Health Practicum

**EXPECTATIONS**
The student will be expected to participate in all activities and be on time. The student will be asked to complete an evaluation of the rotation as a whole upon completion to allow for continual improvement of the student experience. Preceptor performance will be evaluated by the medical student (submitted anonymously).

One of the rotation directors (Drs. Zito / Bland) needs to be informed of all absences. Professionalism as mandated by the School of Medicine is expected.

**STUDENT EVALUATION AND GRADING**
A. One journal club presentation will be required during this rotation.
B. The medical student will receive written evaluations at the end of the month from each clerkship site. This will be reviewed with the student by the faculty evaluator.
C. Course is P/F.

Revised September 2015
RADIOLOGY
INTERVENTIONAL RADIOLOGY ELECTIVE

<table>
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<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Jason Salsamendi, M.D. (<a href="mailto:jsalamendi@med.miami.edu">jsalamendi@med.miami.edu</a>)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5778</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mmartinez11@med.miami.edu">mmartinez11@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Maria Martinez [JMH WW-279]</td>
</tr>
<tr>
<td>LENGTH OF ROTATION:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Surgery or OBGYN Core Clerkship, Radiology I is preferred</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>All Year, EXCEPT Block 7AB</td>
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<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
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**Overview:**
The course is an introduction to Vascular/Interventional Radiology and consists of intensive exposure to Vascular and Interventional Radiology procedures under the direct supervision of interventional radiologists. Students will learn and participate in (a) the use of radiological imaging to guide procedures in different organ systems, (b) the evaluation and management of patients requiring interventional radiology procedures, and (c) performance of interventional procedures, including arterial and venous angiography, angioplasty, stenting, embolization of tumors and vascular malformations, and other vascular and interventional procedures. They will also be instructed in the placement of different venous access devices. Students will also be exposed to non-vascular procedures such as percutaneous biliary drainage and tumor ablation.

**Course Design:**
Students will attend two weekly didactic Interventional Radiology Conferences on early Monday and Thursday mornings, as well as morning case reviews by the IR Section. They will also participate in Interventional Radiology lectures scheduled by the Section (Noon conference, outside conferences, etc.) as they are scheduled.

The students will observe and participate in vascular and interventional radiology procedures under the direct supervision of the designated attending for each case, in the measure and extent considered appropriate by the attending, depending on the student level of knowledge and expertise. As the student skills and knowledge increase during the rotation, the student may be allowed increased participation, always under the direct supervision of the attending or a Fellow designated by the attending.

Students will be assigned to read selected chapters from the *Handbook of Interventional Radiology Procedures, 3rd Ed.*, by Kandarpa.

Students will have the opportunity to participate in a research project in conjunction with Vascular and Interventional attendings, fellows and/or residents.

**Goals**
Students are expected to learn how to:
1. Evaluate a patient to determine if he/she is a candidate for an IR procedure.
2. Obtain appropriate required clinical information and informed consent.
3. Identify the correct imaging modalities in Interventional Radiology procedures and select the correct one for the case.
4. Basic image-guided vascular access procedures (under direct supervision of an Interventional Radiology attending or Fellow).
5. Manage patients immediately pre- and post-procedure, including but not limited to short and long term complications of nephrostomy, dialysis, gastrostomy, gastrojejunostomy, biliary and vascular tubes, catheters and stents.
6. Perform and prepare patients for image guided biopsies, drainages and aspirations.
7. Know when to send a patient for biopsy or aspiration and to understand the best approach to the tumor.

Objectives:
The student will achieve these goals by:
1. Attending all required didactic conferences
2. Participating in image interpretation sessions and case discussions
3. Reading the required text and pertinent articles.
4. Researching from other texts available in the Radiology Library and Sectional teaching files
5. Participating in Vascular and Interventional Radiology procedures under the guidance of an Interventional Radiology attending or Fellow

Location:
- Jackson Memorial Hospital, West Wing Building, 2nd floor, Angio rooms – 90%
- University of Miami Hospitals and Clinics (UMHC), Vascular Interventional Radiology, first floor – 10%

Participating faculty: UMMSM Interventional Radiology Faculty, Fellows, and Residents

Prerequisite: Surgery or OBGYN Core Clerkship, Radiology I is preferred

Expectations:
1. Work day is approximately 7:30AM until 5pm or when cases finish.
2. Attend morning conference to prepare for the days cases at 7:30AM.
3. Present cases at morning conference that students worked up the day before.
4. Obtain history and physical exams for patients prior to procedures. Present the history and physical results to the attending Radiologist, fellow or resident.
5. See patients in the Interventional Radiology clinic for preinterview, history and physical exam. Present these cases directly to the attending Radiologist.
6. Scrub into cases in the IR suite as first or second assist. Progressively perform parts of the procedure depending on the student’s skills and complexity of the procedure.
7. Document procedure appropriately in the chart.
8. When consultations and requests are made to the IR service a student will see the patient, obtain a history and physical exam, decide whether an IR procedure is appropriate, list recommendations for the requesting service, select the best procedure and approach and present this to the Radiology attending for approval. The student will present the case in morning conference.

Student evaluations and grading:
At the end of the rotation, the attending with whom the student has spent most time will assess a passing or failing grade in the form the UMMSM sends at the end of the rotation, including any comments regarding the students’ performance.

A maximum of three days of previously approved absence is enforced. The student will communicate any absence by e-mail to the Student Coordinator at mmartinez11@med.miami.edu to obtain approval. Any absences beyond the three days must be made up to avoid an incomplete in the rotation.

Reviewed January 2015
# NUCLEAR MEDICINE

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Efrosyni Sfakianaki, M.D.</td>
</tr>
<tr>
<td>CONTACT PERSON:</td>
<td>Maria Martinez [JMH WW-279]</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5778</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mmartinez11@med.miami.edu">mmartinez11@med.miami.edu</a></td>
</tr>
<tr>
<td>REPORT TO:</td>
<td>Chief Resident, Nuclear Medicine, JMH Central 2, Room C-248 @ 9:00 am</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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<tr>
<td>TYPE:</td>
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## Overview:
The Nuclear Medicine elective allows the student to interact with the clinical and research activities of Nuclear Medicine as it relates to diagnostic imaging and therapy with this modality. Students are trained under the direct supervision of our faculty members with guidance from our residents. Learning Techniques include: daily work, teaching file, and conference attendance. Reading sessions start at 8 a.m. daily. While patients are injected for studies during the morning, the students observe the technical aspect of this procedure prior to interpreting the studies with residents and attendings. An example of such studies is the myocardial perfusion studies - patients are injected early in the morning, residents and students monitor the stress and rest imaging acquisitions. They also interpret the EKGs prior to evaluating the processed images in the reading room. Students will also observe many other nuclear medicine procedures, such as cisternograms, renal scintigraphy, thyroid scintigraphy and PET scans.

## Course Design:
Grand Rounds and Journal Clubs, appropriately prescheduled, are offered once per week. Conferences include Lymphoma on Mondays, Pediatric Nephrology on Tuesdays and Tumor Board on Thursdays and Fridays in which students will have the opportunity to participate in these multidisciplinary discussions of interesting cases. In addition, teaching sessions are offered daily during the reading periods.

**Clinics:** Thursdays are usually Thyroid Clinic days in which students along with residents evaluate patients previously treated with Radioactive Iodine for therapy.

**Basic Science Teaching Course:** During the month of October, a 4 week, 200 hours Basic Science Teaching Course is offered to all first year residents, which students, if they so desire, may attend (the course takes place over a period of 4 weeks). The course comprises morning, noon and afternoon didactic lectures on Physics, Mathematics, Statistics, Computer Science, Radiation Protection, Radiobiology, Radiopharmacy, Instrumentation and basic science lectures on Indications, Techniques and Applications of Nuclear Medicine Imaging and Therapy. Following these lectures, attendees participate in the organized instruction and regular clinical activities and will be instructed on clinical cases, the techniques of the procedures and the normal/abnormal cases. The course is taught by the Nuclear Medicine faculty, Mr. Jose Perez (Radiation Safety Officer), Mr. Gordon Steff (Radiopharmacist), Dr. Paul Braunschweiger (Radiobiologist), and others.
Goals:
Students should feel comfortable with the indications and contraindications/potential risk of the Nuclear Medicine studies performed at our lab. Students will attain proficiency in the nuclear medicine diagnostic and therapeutic procedures and in the assessment and differential diagnoses of cases. They should be able to construct appropriate differential diagnoses and be able to perform basic quality check and interpretation of these same studies. At the end of this rotation, students should be able to gather essential and accurate information about patients (comprehensive history and physical examination with particular attention to the nuclear medicine examination).

Objectives:
The main objective of this elective is to provide students with knowledge and practical experience in Nuclear Medicine, sufficient to support their functioning while rotating through this service. In addition to knowledge obtained while on this rotation, students should be fully cognizant of the current literature regarding the indications and contraindications of nuclear medicine procedures, the disease processes involved, and the various invasive and non-invasive means of evaluating the patient requiring such studies and the various surgical and radiological interventions available.

Location:
Nuclear Medicine, JMH Central 2, Room C-248. Percentage of student's time spent at this site: 100%. This is the only location in which students will be stationed for the duration of their rotation; with the option of rotating at UMHC for PET/CT observation/training, up to a maximum of 10% of their time, if the student so desires.

Participating faculty:
During their Nuclear Medicine rotation, all students will be under the direct supervision of Dr. George Sfakianakis, Professor of Radiology and Pediatrics, Director, Division of Nuclear Medicine. All attendings, including Dr. Aldo Serafini, Dr. Shabbir Ezuddin and Dr. Efrosyni Sfakianaki are responsible for the training of students. In addition, our residents, are also encouraged to participate in the training of students. Mike Georgiou, Ph.D. offers technical support for Nuclear Medicine procedures.

Prerequisite:
Although there are no requirements prior to starting this rotation, upon contact with the department, students are provided with a suggested reading list, including books and electronic books (e-books).

Expectations:
During their rotation, students are expected to attend all Nuclear Medicine academic and service obligations. This includes attending and participating in divisional and departmental lectures such as case presentations, and discussion in teaching clinics, daily reading sessions (which includes participation in the review of images, and quantitative data), and in the discussion of the differential diagnosis and in the process of arriving at a final diagnosis.

Student evaluations and grading:
Evaluations are completed based on daily direct observation and feedback by attendings and program director. Students are not expected to independently evaluate patients.

Students are expected to achieve and maintain a certain level of competency in PET, cardiac imaging, renal scintigraphy, bone scans and other nuclear medicine procedures. These will be evaluated by the Residency Program Director, Dr. Efrosyni Sfakianaki, at the end of their rotation on the forms provided by the Office of Student Affairs.

Reviewed January 2015
PEDIATRIC RADIOLOGY (JMH)

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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Gaurav Saigal, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-7500</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Maria Martinez (JMH-279); 305-585-5778</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mmartinez11@med.miami.edu">mmartinez11@med.miami.edu</a></td>
</tr>
<tr>
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<td>PREREQUISITE:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year, EXCEPT Block 6B</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>No</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

Overview:
This course is designed for students interested in Pediatrics and consists of intensive exposure to Pediatric Radiology under the direct preceptorship of two-three staff pediatric radiologists.

Course Design:
The student will attend the daily neonatal, in-patient and out-patient film reading sessions, observe the performance of fluoroscopy, attend Pediatric Cardiology and Pediatric Tumor Board conferences. There will also be some exposure to cross-sectional imaging including pediatric abdominal, pelvic and head ultrasound, as well as ultrasound of the neonatal hip and any other educational conference that may be assigned during the rotation.

Goals/Objectives:
Students will be exposed to and will participate in pediatric radiology cases.

Location:
Jackson Memorial Hospital, Radiology DTC 2nd floor, Central 2nd floor and West Wing 2nd floor (100%)

Prerequisite:
Radiology I

Expectations:
Attendance to all Pediatric Radiology conferences is mandatory. The student is also encouraged to attend the daily 12:30 p.m. Radiology didactic conference. The daily reporting time is 8:00 a.m.

Reviewed January 2015
RADIOLOGY I (Required)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 909</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Humberto O. Martinez, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5778</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mmartinez11@med.miami.edu">mmartinez11@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Maria Martinez [JMH WW-279]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>20 (minimum of 5)</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year, EXCEPT Block 6AB and 7AB</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
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</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>No more than 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
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</tbody>
</table>

Overview:
Radiology I is required 4 week clerkship available to third and fourth year medical students, and must be successfully completed prior to graduation. It is a structured four week course at Jackson Memorial Medical Center. The aim of the program is to teach the student an approach to diagnostic imaging and how to effectively use our varied radiographic techniques and imaging modalities to diagnose disease.

Course Design:
The course consists of daily morning image interpretation sessions covering all areas of Radiology and afternoon required didactic conferences. Attendance will be recorded at the end of these sessions. The students will take a pre-course exam on day one of the rotation and will be required to present a case with a proven radiologic diagnosis half way through the clerkship. A final exam will be given on the last day of the course.

Goals:
- To achieve a basic knowledge of plain film interpretation as screening tools enabling the medical student to identify emergent and life threatening situations.
- To give the student a basic understanding of the indications and protocols for the more specialized imaging modalities such as sonography, computerized tomography, magnetic resonance imaging, and molecular imaging (nuclear medicine).

Objectives:
- Participation in the assigned daily morning image interpretation sessions at the PACS workstations with radiology residents and attendings.
- Become familiar with imaging of common disease processes as specified in the Radiology Case Log provided for each body section.
- Become comfortable in discussing the appropriate radiographic findings and differential diagnoses of a disease process to other colleagues as required for the oral case presentation. This will serve as the student's mid-course evaluation.
- Be familiar with the most indicated imaging tools and imaging protocols available for specific disease presentations.
- Become more familiar with the role of the radiologist as a member of the health care team.
Location:
- Jackson Memorial Hospital (JMH), Radiology areas in West Wing, Central, Diagnostic Treatment Center and JMH Emergency Room Radiology – 90%
- University of Miami Hospital and Clinics/Sylvester Cancer Center (UMHC/SCCC) – 10%

Participating faculty:
UMMSM Faculty, Fellows, and Residents

Prerequisite:
None

Expectations:
Students need to become familiar with the supplemental information provided with the course syllabus. Students are required to attend all didactic conferences, participate in the daily image interpretation sessions and/or procedures, and are encouraged to take advantage of the additional materials available in our Radiology library, including books, teaching files, and audio-visual materials. Students are encouraged to use the highly recommended “Fundamentals of Radiology” by Lucy Squire and Robert Novelline as a reference text.

Understanding the role of Diagnostic Radiology as a consulting specialty and obtaining a good comfort level in ordering and interpreting basic imaging modalities should provide the student with the ability to choose the most efficient imaging tools to guide the diagnosis of their patients’ diseases.

Because we are a consulting service to other medical specialties, and students will often have patient contact, we require appropriate attire (including white lab coats) be worn at all times while in the department. No scrubs unless while rotating in Interventional Radiology and Fluoroscopy (Body Imaging).

Student evaluations and grading:
Although there may be unpredicted absences due to illness, a maximum of two (2) days of absence is enforced during the four week course. These two (2) days will be made-up during the same rotation. Any days missed beyond two (2) will need to be made-up during another rotation, preferably the subsequent one. Interviewing during the clerkship is highly discouraged, and ALL absences (including the 2 days) must be made up to avoid an incomplete in the rotation.

The final grade will be determined by the performance on the mid-course case presentation (35%), the final examination (35%), and the practical rotations (25%). The remaining 5% will take into consideration attendance at conferences, evidence of improved knowledge base since the pre-course test, and professionalism (45%) at the discretion of the course director.

Revised January 2015
RADIOLOGY II

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 910</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Humberto O. Martinez, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5778</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mmartinez11@med.miami.edu">mmartinez11@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Maria Martinez [JMH WW-279]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Radiology I</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>4</td>
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<tr>
<td>AVAILABLE:</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>None</td>
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<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

Overview:
Radiology II at Jackson Memorial Medical Center consists of a more extensive exposure to one or two subspecialty areas in clinical Diagnostic Radiology.

Course Design:
The student may select to spend one or two weeks in any subspecialty area to gain more in-depth knowledge of that subspecialty. The experience will vary somewhat depending on the area of Diagnostic Radiology which the student selects. They are welcome, but not required, to attend scheduled student lectures. They are encouraged to attend the daily 12:30 p.m. Departmental conference. They are required to attend all subspecialty conferences of the sections they are rotating through.

Goals/Objectives:
The students who have demonstrated a special interest in one of the Radiology subspecialties should spend as much time as possible in the daily imaging interpretation sessions or procedures and attend as many subspecialty conferences as possible during the elective. Because we are a consulting service to other medical specialties, and students will often have patient contact, we require appropriate attire (including white lab coats), be worn at all times while in the department. No scrubs unless while rotating in Interventional Radiology and Fluoroscopy (Body Imaging).

Location:
Jackson Memorial Hospital, Radiology areas in West Wing Building, Central Building, Diagnostic Treatment Center (DTC) and Emergency Room Radiology (1st floor Emergency Building)

Participating faculty:
UMMSM Faculty, Fellows, and Residents

Prerequisite:
Radiology I

Expectations:
Students will participate in daily image interpretation sessions, attend as many noon conferences as possible and should take advantage of the additional materials available in our Radiology Library including books, teaching files, and audio-visual materials. Gaining more in depth understanding the role of Diagnostic
Radiology and its subspecialties and obtaining a good comfort level in ordering and interpreting basic imaging modalities should provide the student with the ability to choose the most efficient imaging tools to guide the diagnosis of their patients' diseases.

**Student evaluations and grading:**
The students will be under the supervision of the Radiology faculty, fellow and resident staff. They will be individually evaluated by the faculty member(s) they have worked most closely with during the one or two week period. The students will not be required to take any written or practical examinations, but may be asked to present interesting cases at the discretion of the supervising faculty.

Reviewed January 2015
RADIOLOGY @ MT. SINAI

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 908</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>William Burke, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-674-2251</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ismith@msmc.com">ismith@msmc.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Italia Smith</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1 student</td>
</tr>
<tr>
<td></td>
<td>No students Blocks 00, 1A, 1B, 2A and 7A</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
<td>No</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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</table>

Please contact a minimum of two weeks before the start of the rotation to complete hospital specific orientation requirements. Please contact Italia Smith in the Mt. Sinai Medical Education Office at ismith@msmc.org.

Overview:
The courses consist of daily required didactic conferences and practical film interpretation sessions covering all areas of Radiology.

Course Design:
The student will participate in divisional activities including diagnostic and therapeutic nuclear medicine and non-invasive cardiovascular laboratory, under the direct Preceptorship of attending physicians.

Goals/Objectives:
- Expose the student to the different imaging modalities
- Rotations will be scheduled based on institutional requirements & interest of the student
- Learn the basic approach to the interpretation of the images
- Explore the correlation between the images and the diseases

Location:
Experiences occur at Mt Sinai Medical Center.

Prerequisite:
All core clerkships

Expectations:
Students are given a complete tour of all sections and basic indoctrination to the service. The student will spend the mornings in a combination of general or specialized radiological, nuclear, computer tomography, or magnetic resonance. At 12:30 there will be a one-hour radiology conference; attendance is mandatory. The rest of the afternoon could be spent in the library reviewing available teaching materials, reviewing the teaching collection in the CT reading room or working on a required “project”. The project or assignment consists on a short written description of the work-up of a clinical problem such as chest pain, GI bleeding, subarachnoid hemorrhage, or other topic chosen by the student, along with the choice of imaging modalities to establish the diagnosis.
Student evaluations and grading:
A grade of Pass or Fail will be given in consideration to the student’s attendance, participation in rotations and development of the required project.

Please report directly to the Office of Medical Education, at 8:30 a.m. located on the second floor of the De Hirsch Meyer Tower, Main Building, Suite 2065.

Students are required to have the following documents upon arrival:

- Both School and Personal ID
- Copy of Personal Insurance card

The Security Department will need a picture I.D., your car’s tag number and a $5.00 deposit in order to issue you a badge (cash only, checks or credit cards are not accepted).

Reviewed January 2015
HOLY CROSS HOSPITAL INTERVENTIONAL RADIOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1021</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Mike Rush, MD</td>
</tr>
<tr>
<td></td>
<td>(<a href="mailto:Mikerushmd@yahoo.com">Mikerushmd@yahoo.com</a>)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Surgery and Internal Medicine Clerkships (RMC) or Radiology I (Miami)</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>All Year</td>
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<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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<tr>
<td>TYPE:</td>
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</tbody>
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Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
Students will be able to take a 2-4 week elective during their fourth year in diagnostic and interventional radiology. During the block, students will spend their time in the department of radiology with the faculty and radiology technicians. They will be working with radiologists on diagnostic imaging, interventional procedures, imaging and compiling the medical history as appropriate for the procedure. They should also attend any conferences or other teaching seminars offered in radiology during their assigned time.

Course Design:
This Course is designed to provide students with opportunities in a radiology practice. They will work with the physicians in the department as well as radiology technicians. Students will be expected to see patients prior to procedures to obtain a pertinent history and physical as to appropriateness of intervention. They will also be present with radiologist during interventional procedures. Furthermore, students will gain knowledge of the impact interventional radiology has on patient care by following up on patients after their intervention and evaluating for any complications, but also for resolution of symptoms. Students should begin to develop the skills to interpret normal from abnormal films and how that impacts interventional procedures. Students may also be asked to discuss results of procedures with referring physicians. Furthermore, students will have an opportunity to rotate with the radiology technicians where they can learn what goes into each individual study. They will also have opportunities to participate in multidisciplinary discussions of patient care.

Goals:
The Goal of this elective is to have fourth year students gain a better understanding of the indications, contraindications and resources needed to perform many interventional radiology procedures. They will also gain minor procedural skills during this rotation.
Objectives:

1. Medical Knowledge
   a. Student will be able to identify normal anatomy on imaging modalities including, but not limited to chest xray, CT of brain, chest and abdomen/pelvis
   b. Student will be able to differentiate radiation exposure for different imaging modalities

2. Patient care
   a. Student will describe the indications and contraindications for several interventional procedures including:
      i. IVC placement
      ii. Image guided Thora and Paracentesis
      iii. Ultrasound and CT guided biopsy
      iv. Image Guided Central Line placement, including PICC lines and HD lines
   b. Student will perform a focused history and physical prior to procedure to assess appropriateness of said procedure

3. System Based Practice:
   a. Student will be able to describe the costs and resources needed for a variety of imaging and procedural modalities
   b. Student will be able to select the most appropriate imaging modality and/or procedure with the highest value

4. Professionalism:
   a. Student will arrive on time, and prepare by reading appropriate information
   b. Student will display appropriate and professional interactions with nurses, radiology technicians and faculty in the department of radiology
   c. Student will have professional interactions with patients brought for radiologic interventions

5. Problem Based Learning and Improvement
   a. Student will read on patient presentations and imaging findings pertinent to pathologies that present during their rotation
   b. Students will self-identify areas that they struggle with and seek clarification from faculty or literature.
   c. Student will use evidence based practice in their approach to patient care

6. Interpersonal and communication skills
   a. Student will be able to communicate pertinent findings to referring physicians
   b. Student will be able to communicate pertinent information to radiologist in order to optimize the medical care provided to patient

Location:
Holy Cross Hospital (100%)

Participating Faculty:
Dr. Mike Rush

Prerequisite:
Surgery and Internal Medicine Clerkships (RMC) or Radiology I (Miami)

Expectations:
- Students on this rotation are expected to come with an interest in learning. Expectations include evaluating patients prior to and after procedures and discussing findings with radiologist. They are to supplement clinical learning with independent reading to have a more robust educational experience.
- Students are expected to conduct themselves in a professional manner. They are to notify their preceptor as well as course director of any anticipated absences.
- They are to treat all patients, staff and physicians with respect.

Student Evaluation and Grading:
• Students will be evaluated by the attending physician with whom they interact. Students will be evaluated based off of their ability to identify the indications and contraindications to many interventional procedures. They will also be evaluated on their ability to discuss the general technique and resources needed for common interventional procedures. This will allow the attending to evaluate both medical knowledge and patient care. Attendance and punctuality will be used to assess professionalism. Students should also begin to develop skills in communicating findings and plans to referring physicians which will be observed by attending physician, contributing to the grade in communication skills.

• The final evaluation will be discussed face to face with the student, and will also be submitted electronically for official records.

Reviewed January 2015
WEST PALM BEACH VA RADIOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 1020</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Sean Martinez, MD</td>
</tr>
<tr>
<td></td>
<td>(<a href="mailto:Sean.Martinez@va.gov">Sean.Martinez@va.gov</a>)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Surgery and Internal Medicine Clerkships (RMC) or Radiology I (Miami)</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
Students will be able to take a 2 week elective block during their fourth year in diagnostic radiology. During the block, students will spend their time in the department of radiology with the faculty and radiology technicians. They will be responsible for working with radiologists and compiling the medical history as appropriate for the imaging modality.

Course Design:
This Course is designed to provide students with opportunities in a radiology practice. They will work with the physicians in the department as well as radiology technicians. Students will be expected to see diagnostic images as well as some interventional procedures. Students should begin to develop the skills to interpret normal from abnormal films. If physicians come to speak with the radiologist, as students progress, they will be asked to discuss results with the physicians requesting information. Furthermore, students will have an opportunity to rotate with the Radiology technicians where they can learn what goes into each individual study.

Goals:
The Goal of this elective is to have fourth year students gain a better understanding of diagnostic radiology modalities, the effects of radiation, appropriateness of different types of studies and begin to differentiate normal from abnormal on common imaging modalities.

Objectives:
- **Medical Knowledge**
  - Student will be able to identify normal anatomy on imaging modalities including, but not limited to chest X-ray, CT of brain, chest and abdomen/pelvis
  - Student will be able to differentiate radiation exposure for different imaging modalities
  - Student will be able to identify common pathologic abnormalities on chest and abdominal plain films, including but not limited to:
    - Pneumonia
    - Congestive Heart Failure
    - Pneumothorax
- Pleural Effusion
- Cardiomegaly
- Ileus/Obstruction
- Nephrolithiasis
- Perforation

- Student will be able to identify common pathologic abnormalities on Chest CT including but not limited to:
  - Pneumonia
  - Large Pulmonary Embolism
  - Pulmonary fibrosis
  - Pleural Effusion
  - Lymphadenopathy

- Student will be able to identify common pathologic abnormalities on Brain CT, including but not limited to:
  - Intracranial hemorrhage:
    - Subdural Hematoma
    - Epidural Hematoma
  - Ischemic stroke

- Student will be able to identify common pathologic abnormalities on Ultrasound of the abdomen:
  - Hydronephrosis
  - Ascites

- Patient care
  - Student will describe the indications and contraindications for several imaging techniques including:
    - CT scans with and without contrast
    - MRI scans with and without contrast
    - Ultrasound
    - Nuclear Medicine imaging
    - Ultrasound

  - Student will be able to select the most appropriate imaging technique for a variety of common diagnostic evaluations:
    - Pulmonary Embolism
    - Stroke (Acute)
    - Pneumonia
    - Nephrolithiasis
    - Cholelithiasis
    - SBO/LBO
    - Mesenteric ischemia/ischemic colitis
    - Enteritis/Colitis

- System Based Practice:
  - Student will be able to describe the costs and resources needed for a variety of imaging modalities
  - Student will be able to select the most appropriate imaging modality with the highest value

- Professionalism:
  - Student will arrive on time, and prepare by reading appropriate information
  - Student will display appropriate and professional interactions with nurses, radiology technicians and faculty in the department of radiology
  - Student will have professional interactions with patients brought for radiologic interventions

- Problem Based Learning and Improvement
  - Student will read on patient presentations and imaging findings pertinent to pathologies that present during their rotation
• Students will self-identify areas that they struggle with and seek clarification from faculty or literature.
• Student will use evidence based practice in their approach to patient care
• Interpersonal and communication skills
  • Student will be able to communicate pertinent findings to referring physicians
  • Student will be able to communicate pertinent information to radiologist in order to optimize the medical care provided to patient.

Location:
VA WPB (100%)

Participating Faculty:
• Sean Martinez, M.D.
• Marc Friedman, M.D.
• Henry Stern, M.D.
• Albert Ammann, M.D.
• Lana Al-Karmi, M.D.
• Sabrina Browning, M.D.

Prerequisite:
Surgery and Internal Medicine Clerkships (RMC) or Radiology I (Miami)

Expectations:
• Students on this rotation are expected to come with an interest in learning as well as an area of radiology that they would like focus on during their elective. This area of focus should be emailed to Sean Martinez several weeks prior to the elective at Sean.Martinez@va.gov.
• Students are expected to conduct themselves in a professional manner. They are to notify the course director of any anticipated absences.
• They are to treat all patients, staff and physicians with respect.

Student Evaluation and Grading:
• Students will be evaluated by the attending physicians with whom they interact. Students will be evaluated based on their ability to begin to recognize normal anatomy and common pathological findings with an emphasis on appropriate utilization of imaging. This will allow the attending to evaluate both medical knowledge and patient care. Attendance and punctuality will be used to assess professionalism. Students should also begin to develop skills in communicating findings and plans to referring physicians which will be observed by attending physician, contributing to the grade in communication skills.
• The final evaluation will be discussed face to face with the student, and will also be submitted electronically for official records.

Reviewed January 2015
RADIATION ONCOLOGY
RADIATION ONCOLOGY

COURSE CODE: MDR 915
CLERKSHIP DIRECTOR: Cristiane Takita, M.D.
TELEPHONE: 305-243-4337
EMAIL: YCuervo@med.miami.edu
CONTACT: Yamira Cuervo [SCCC - suite 1500]
LENGTH OF ELECTIVES: 4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 2
AVAILABLE: All Year
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: No
TYPE: Clinical

Overview:
The objective of the Radiation Oncology elective is to familiarize the student with the treatment of neoplastic disease in general, and specifically with the role of ionizing radiation in treating cancer and related disorders.

Course Design:
The course is tailored to the needs of individual students, with an emphasis on providing a general introduction to Radiation Oncology for students either interested in other medical fields, other oncologic specialties, or considering Radiation Oncology as a field specialization.

Goals/Objectives:
Students will be exposed to and will participate in the treatment of patients with neoplastic disease using radiation modalities.

Location: Experiences occur at JMH (25%) and UMHC/SCCC (75%).

Prerequisite: None

Expectations:
The student is expected to integrate all areas of activity within the department and to perform a comprehensive oncologic history and physical examination. They will need to formulate a basic approach to management for a variety of oncologic problems. The student will be encouraged to participate in patient-planning exercises and will be exposed to the practice and principle of CT-simulation for treatment planning and tumor localization. Opportunities for the student will be available to engage in clinical research, which may lead to a published manuscript or a presentation at a regional/national meeting.

Student evaluations and grading:
Students will be evaluated on their ability to conduct a relevant history and physical examination related to oncology and on their willingness to involve themselves in the steps needed to get the patient into treatment. For example, simulation, treatment planning, self-motivation and reading outside of the program is encouraged to increase their knowledge of radiation oncology.

Reviewed January 2015
RMC RADIATION ONCOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 992</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Anurag Agarwal, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-883-8656</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:aaagarwal@sfrollc.com">aaagarwal@sfrollc.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Core Internal Medicine and Surgery Clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

OVERVIEW
This is a 2 or 4-week elective intended to expose the senior medical student to spectrum of experiences in radiation-oncology. It’s anticipated that the student will rotate through 2-3 outpatient clinic settings and be exposed to various radiation-oncology treatment modalities/technologies.

COURSE DESIGN
The student will have the opportunity to evaluate new patient consultations, under the supervision of a board-certified radiation-oncologist. The student will perform a history & physical examination. The student will be expected to read further about the specific patient’s oncology diagnosis, and discuss these concepts with the supervising MD. This will be an outpatient elective experience. Core malignancies reviewed will include, but not be limited to: breast cancer, lung cancer, prostate cancer, and CNS tumors.

Radiation technologies will include external beam radiation [using a Linear Accelerator (LINAC) with Intensity Modulated Radiation Therapy (IMRT), Image Guided Radiation Therapy (IGRT), Volumetric Modulated Arc Therapy (VMAT)], Stereotactic RadioSurgery, and Brachytherapy. The student will have the opportunity to interact with and learn from various team members including the Radiation Physicist, Dosimetrist, Nurses, and Radiation-therapists. The student will gain a broad perspective of how a patient progresses through a radiation-treatment course from beginning to completion. Some patients will be treated concurrently with chemotherapy and there may be overlapping medical oncology concepts that the student is exposed which span a radiation-oncology and medical-oncology spectrum. The student will be expected to attend any Tumor Board/CME conferences which occur during the timeline of the clinical rotation. The student will have direct contact, supervision, and access to the supervising board-certified radiation-oncology physician at all times.

GOALS
1. Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiology examinations, and cognitive skills as they relate to the diagnosis and treatment of various solid-organ malignancies.
2. Familiarize the medical student with different types of radiation treatments.
a. Understand the general indications for each technology, and the basic logistics of the patient experiences as they relate to a specific treatment course
b. Learn about potential toxicities associated with different types of radiation treatments
c. Learn basic concepts of Radiation-Biology and Radiation-Physics as they pertain to a clinical practice setting
3. Reinforce a critical approach to the medical literature.

OBJECTIVES
1. The medical student will be expected to be familiar with the basic evaluation and management of the following disorders:
   a. Lung cancer
   b. Breast cancer
   c. CNS tumors
   d. Prostate cancer
   e. Other cancers as they pertain to particular patients
2. The medical student will be expected to have read and discuss with the radiation-oncologist the basic aspects of the following clinical problems:
   a. Potential short-term and long-term toxicities from radiation therapy
   b. How radiation and chemotherapy have a synergistic effect
   c. When is Surgery vs. Radiation vs. Chemotherapy indicated for common oncologic disease.
3. Have a working understanding of how different types of technologies are utilized in the treatment of different cancers.
4. During the last week of the rotation, the student will be expected to present a 20 minute PowerPoint presentation on an oncologic topic of her/his choice as it relates to radiation-oncology concepts, and be prepared for a follow-up question/answer session with the radiation-oncologist.

LOCATION
Outpatient private practice offices mostly limited to: Boca Raton (60%), Lauderhill Lakes (30%), Coconut Creek (10%)

PARTICIPATING FACULTY
Anurag Agarwal, M.D.

PREREQUISITE
Completion of Internal Medicine and Surgery Core Clerkships

EXPECTATIONS
The student will be expected to participate in all activities (consultations, procedures, rounds, clinics, conferences) and be on time. The rotation coordinator (Dr. Anurag Agarwal) needs to be informed of all absences. Professionalism as mandated by the School of Medicine is expected.

STUDENT EVALUATION AND GRADING
1. The medical student will receive a written evaluation at the end of the month. This will be reviewed with the student by the faculty evaluator.
2. The student will be asked to complete an evaluation of the rotation as a whole upon completion to allow for continual improvement of the student experience.
3. Faculty performance will be evaluated by the medical student (submitted anonymously).

Reviewed January 2015
NOTE: ANY schedule changes involving ALL Surgery rotations, must be authorized by Evelyn Gotera before your schedule can be officially changed.
BURN CENTER

COURSE CODE: MDR 917
CLERKSHIP DIRECTOR: Louis Pizano, M.D.
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB #410Q]
EMAIL: egotera@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 2
AVAILABLE: All year, EXCEPT block 7AB
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview/Course Design:
The Burn Service admits over 150 major injuries and 300 total patients per year. Concentration is on acute care but reconstruction is also done. Principles of critical care, infection control, nutritional support, wound care and rehabilitation are stressed. Opportunities for clinical research exist.

Goals/Objectives:
Students will learn how to recognize, diagnose and manage patients with burn injuries.

Location:
Experiences occur predominantly at JMH and Ryder Trauma Center (100%).

Expectations:
Students hours on the sub-internship are from 6 AM to 7PM Monday through Friday. Students are required to take night call at most every third day and weekend call at least once a month. Students will not have clinical responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have one day off in seven.

Prerequisite:
Must have completed all core clerkships.

Student evaluations and grading:
All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

REPORT TO: UM/JM Burn Center, Trauma 3B, 7:00 AM.

Reviewed January 2015
CARDIOTHORACIC SURGERY

COURSE CODE: MDR 919
CLERKSHIP DIRECTOR: Anthony Panos, M.D.
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB #410Q]
EMAIL: egotera@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 2
AVAILABLE: All year, EXCEPT block 7AB
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview: This rotation will give the 4th year student a unique opportunity to see complex surgical procedures while learning how to care for critically ill patients.

Course Design:
The attending and resident staff will supervise the care of patients undergoing operations for coronary artery disease, congenital and acquired valvular heart disease, complex congenital heart defects, a variety of lung and esophageal diseases, trauma to the chest, and heart and lung transplants. Patients will range from premature infants to elderly adults at JMH and VA Hospitals.

Goals/Objectives: Students will learn how to recognize, diagnose and treat common cardiovascular diseases with a focus on surgical approaches.

Location: Experiences occur at JMH (XX%) and the VAMC (XX%).

Prerequisite: Must have completed all the core clerkships

Expectations:
Students hours on the sub-internship are from 6 AM to 7PM Monday through Friday. Students are required to take night call at most every third day and weekend call at least once a month. Students will not have clinical responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have one day off in seven.

Student evaluations and grading:
All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

REPORT TO: JMH East Tower 3072 – 8:00 a.m. to make contact with the chief resident at JMH.

Reviewed January 2015
GENERAL SURGERY [E1]

COURSE CODE: MDR 920
CLERKSHIP DIRECTOR: Steven Rodgers, M.D.
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB #410Q]
EMAIL: egotera@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 2
AVAILABLE: All year, EXCEPT block 7AB
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview:
This 4-week rotation will expose the 4th year student to a wide array of cancer problems and teach an integrated interdisciplinary approach to their management. Esophageal, hepatic, breast, and gastric carcinomas will be seen and treated in addition to melanomas and soft tissue sarcomas.

Course Design:
The experience will be very comprehensive with the student actively participating in the care of patients before and after surgery, as well as in the Tuesday clinic at JMH.

Goals/Objectives: Students will learn how to recognize, diagnose and treat common carcinomas through an integrated interdisciplinary approach.

Location: Experiences occur predominantly at JMH (XX%) and SCCC (XX%).

Prerequisite: Must have completed all the core clerkships

Expectations:
Students hours on the sub-internship are from 6 AM to 7PM Monday through Friday. Students are required to take night call at most every third day and weekend call at least once a month. Students will not have clinical responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have one day off in seven.

Student evaluations and grading:
All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

REPORT TO: JMH West Wing 10 – 7:00 a.m.

Reviewed January 2015
GENERAL SURGERY [ E II ]

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MD R921</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>John Lew, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB #410Q]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:egotera@med.miami.edu">egotera@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year, EXCEPT block 7AB</td>
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<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview:
This elective surgery service predominantly sees hepatobiliary, pancreatic problems, surgical endocrine and adrenal disease. It deals with patients with portal hypertension and biliary tract disease, and both benign and malignant conditions will be seen and treated. In addition, endocrine surgery patients will be seen, and the full spectrum of thyroid and parathyroid disease will be learned. Advanced laparoscopic skills can also be seen treating a whole spectrum of surgical problems.

Course Design:
Students have the opportunity to join evening rounds, present patients, discuss current problems and generate treatment options. Students will present didactic discussion of patient subjects to staff and colleagues weekly.

Goals/Objectives: Students will learn how to recognize, diagnose and treat the most common hepatobiliary, pancreatic, endocrine and adrenal diseases.

Location: Experiences occur predominantly at JMH (XX%) and SCCC (XX%).

Prerequisite: Must have completed all core clerkships.

Expectations: Students hours on the sub-internship are from 6 AM to 7PM Monday through Friday. Students are required to take night call at most every third day and weekend call at least once a month. Students will not have clinical responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have one day off in seven.

Student evaluations and grading: All students will be evaluated by Dr. Joe Levi, Dr. Danny Sleeman, and Dr. John Lew on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

REPORT TO: EI team, JMH West Wing 10-7:00 a.m.
GENERAL SURGERY [ E III ]

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 922</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Laurence Sands, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB #410Q]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:egotera@med.miami.edu">egotera@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
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<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
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</tbody>
</table>

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview:
This elective service deals primarily with diseases of the colon, rectum, and anus. Benign disease, such as hemorrhoids, anal fistulae, anal fissures, and inflammatory bowel disease will be seen and thoroughly discussed and learned. In addition, the entire spectrum of colon and rectal cancer will be seen and treated.

Course Design:
The student will have the opportunity to learn the role of chemotherapy and radiation as it relates to colorectal cancer. Office hours with the attendings will also be available for the student. The JMH clinic also provides the student with additional time seeing patients in the outpatient setting.

Goals/Objectives: Students will learn how to recognize, diagnose and treat the most common diseases of the colon, rectum and anus.

Location: Experiences occur at JMH (XX%), UMH (XX%), and UMHC/SCCC (XX%).

Prerequisite: Must have completed all the core clerkships.

Expectations:
Students hours on the sub-internship are from 6 AM to 7PM Monday through Friday. Students are required to take night call at most every third day and weekend call at least once a month. Students will not have clinical responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have one day off in seven.

Student evaluations and grading: All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

REPORT TO: Rounds at 7:00 a.m.-page chief resident (0051) or 3RD year resident (0054) for location.

Reviewed January 2015
GENERAL SURGERY [ E IV] [TYPE B]

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 943</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Jose Martinez, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB #410Q]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:egotera@med.miami.edu">egotera@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year EXCEPT block 7AB</td>
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<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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</tbody>
</table>

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview:
This 4-week rotation will expose the 4th year student to several unique, yet related, surgical disciplines: laparoscopic surgery, surgical endoscopy, and the surgical management of morbid obesity.

Course Design:
A major component of the EIV service is the 5000 square foot training center which serves as the site for numerous educational programs geared toward the training of surgeons and residents. The Center has several state-of-the-art surgical and endoscopic simulators on which students can actually perform basic surgical skills and all types of endoscopic procedures.

Laparoscopic surgical cases range from routine gallbladder and inguinal hernia surgery to more advanced procedures such as laparoscopic donor nephrectomy for renal transplants, laparoscopic gastric bypass for morbid obesity, and solid organ removal (spleen, adrenal). Students will have the opportunity to participate in these cases and to follow the patients during the postoperative period.

All types of routine and advanced flexible endoscopic procedures are performed, and students will gain exposure to routine upper and lower endoscopy as well as therapeutic procedures such as ERCP and the control of GI bleeding.

Goals/Objectives:
Students will participate and gain exposure to laparoscopic and endoscopic surgical procedures.

Location:
Experiences occur at JMH [XX%] and UMHC/SCCC [XX%].

Prerequisite:
Must have completed all the core clerkships.

Expectations:
Students hours on the sub-internship are from 6 AM to 7PM Monday through Friday. Students are required to take night call at most every third day and weekend call at least once a month. Students will not have clinical
responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have one day off in seven.

**Student evaluations and grading:**
All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

**REPORT TO:** EIV office located in the CRB, 4th floor at 8:30 AM.

Reviewed January 2015
**GENERAL SURGERY (VAMC)**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Seth Spector, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:egotera@med.miami.edu">egotera@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB #410Q]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>NUMBER OF STUDENTS:</td>
<td>2</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year-except block 7AB</td>
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<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</table>

**NOTE:** ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

**Overview:**
The surgical program at the VA Medical Center is a truly General Surgical Service which focuses on Open and Laparoscopic General Surgery, Surgical Oncology, Colorectal Surgery and Vascular surgery. The cases include cholecystectomies, colon resections, hepatobiliary and pancreatic surgery, complex hernia repairs, distal bypasses, aortic aneurysms and vascular stenting. In addition, appendectomies, hernias, hemorrhoid operations and an increasing number of outpatient surgeries compose our experience.

**Course Design:**
The emphasis during the rotation is placed on the resident and medical student education with case presentation conference held on Wednesday afternoons, teaching ward rounds daily, in addition to the Department of Surgery Grand Rounds and Morbidity and Mortality conference. Working rounds, clinics and student’s level of responsibilities will be that of a sub-intern. The participant will take call along with the PGY 1 Resident.

**Goals/Objectives:**
Students will learn how to recognize, diagnose and treat the most common surgical problems.

**Location:**
Experiences occur at the VAMC (100%).

**Prerequisite:**
Must have completed ALL core clerkships. Students must be fingerprinted and contact Minerva Castellano at Minerva.Castellano@va.gov 1 week prior to start date for computer access. **Office:** (305) 575-7158

**Expectations:**
Student hours on the sub-internship are from 6 AM to 7 PM, Monday through Friday. Students are required to take night call at most every third day and weekend call at least once a month. Students will not have clinical responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have one day off in seven.
**Student evaluations and grading:**
All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

**REPORT TO:** The VA ward 11AB at 6:30 AM.

Reviewed January 2015
ORAL AND MAXILLOFACIAL SURGERY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 926</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Lawrence Armentano, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5326</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:L.Armentano@umiami.edu">L.Armentano@umiami.edu</a> or <a href="mailto:GCharlto@jhsmiami.org">GCharlto@jhsmiami.org</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Grace Charlton [JMH ACC East Bldg 2nd Floor Room 234]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2/4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year Except 1A, 1B, and 2A</td>
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<tr>
<td>U.S. VISITING STUDENTS</td>
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<td>INTERVIEWING TIME:</td>
<td>None</td>
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<td>TYPE:</td>
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</table>

Overview:
The Department of Surgery’s Division of Oral and Maxillofacial Surgery offers the student an intense experience in Head and Neck Reconstructive Surgery, Oral and Maxillofacial Pathology, Facial Trauma and Head and Neck Anatomy. The attending and resident staff is committed to providing the student with a valuable educational experience. This is the only exposure the medical student receives regarding the problems related to the oral cavity and to oral and maxillofacial surgery, which may confront him/her at a later date in his/her career. This is an advantageous rotation for those interested in ENT, Plastic Surgery, and Ophthalmology.

Course Design:
Time is primarily spent in the operating rooms at Jackson Memorial Hospital and the University of Miami Hospital. We also perform surgery in the Jackson outpatient clinic on Tuesday’s and Thursday’s. The student will participate in outpatient clinical activities in the Jackson clinic, as well as attend educational conferences; Grand Rounds, Oral Pathology, Anesthesia, Anatomy, Implants, Trauma, Case Review/Record Review, Morbidity and Mortality, and Journal Club.

Goals:
Students will be given the opportunity to develop the clinical skills and knowledge base necessary to recognize the most common clinical conditions with an emphasis on diagnosis and management.

Objectives:
Medical students will learn how to recognize, diagnose and treat the most common problems related to the oral cavity and to oral and maxillofacial surgery in general, as well as when to make a referral.

Location:
Jackson Memorial Hospital (60%) and University of Miami Hospital (40%)

Participating Faculty:
Drs. Jesus Gomez, Michael Peleg, Yoh Sawatari, Lawrence Armentano, Vishtasb Broumand and Robert Marx, Division Chief.

Prerequisite:
None
**Expectations:**
The medical student is expected to be in attendance and on time every day of the two to four week rotation. If the student must be absent during his/her rotation, he/she must get permission from Dr. Jesus Gomez and must make up the missed days, unless specifically excused by Dr. Gomez. The student is expected to participate in all activities (consultations, procedures, rounds, clinics, conferences, and lectures), and to remain in clinic until all patients have been seen and residents have been dismissed.

**Student Evaluation and Grading:**
Medical students rotating through Oral and Maxillofacial Surgery are evaluated on the following:
1. Fund of Knowledge
2. Professionalism
3. Participation
4. Attendance
5. Promptness
6. Interaction with Peers

**REPORT TO:** Jackson Memorial Hospital, ACC East Building, 2nd Floor, Room 234 @ 8:00 am. However, please contact Mrs. Grace Charlton (305-585-5326) prior to your rotation.

Reviewed January 2014
# PEDIATRIC SURGERY

<table>
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<th>COURSE CODE:</th>
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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Holly Neville, M.D.</td>
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<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
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<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB #410Q]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:egotera@med.miami.edu">egotera@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>AVAILABLE:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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</table>

**NOTE:** ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

**Overview:**
This very busy surgical service will allow the 4th year student the opportunity to care for common and uncommon, yet very interesting, surgical problems in the pediatric population.

**Course Design:**
The experience includes abdominal surgery, hernia surgery, and thoracic procedures. There is close supervision by the pediatric surgery attendings with daily rounds and a chance to follow patients closely. Outpatient clinics also provide for close patient follow up.

**Goals/Objectives:**
Students will learn how to recognize, diagnose and treat the most common surgical problems in the pediatric population.

**Location:** Experiences occur at JMH (100%).

**Prerequisite:** Must have completed all the core clerkships.

**Expectations:**
Students hours on the sub-internship are from 6 AM to 7PM Monday through Friday. Students are required to take night call at most every third day and weekend call at least once a month. Students will not have clinical responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have one day off in seven.

**Student evaluations and grading:** All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

**REPORT TO:** JMH East Tower 6B (Pediatric Surgery Special Care Unit) – 7:00 a.m; 8:00 am on weekends.

Reviewed January 2015
PLASTIC SURGERY

COURSE CODE: MDR 928
CLERKSHIP DIRECTOR: Wrood Kassira, M.D. & Seth Thaller, M.D.
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB #410Q]
EMAIL: egotera@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Internal Medicine & Surgery
NUMBER OF STUDENTS: 4
AVAILABLE: All year, except block 7AB
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview:
This rotation provides comprehensive exposure to all facets of aesthetic plastic and reconstructive surgery at UM affiliated clinical institutions and educational venues.

Course Design:
Students participate in the pre-operative planning, operative management, and post-operative care of plastic and reconstructive surgery patients, on the wards and in the clinics; learn plastic techniques in the operating and emergency rooms; and also participate in the on-call schedule with the residents. Students are also welcome to actively participate in all of educational programs of the division including Grand Rounds, Journal Clubs & Didactic Sessions. Medical students will be encouraged to participate in any ongoing research projects.

Goals/Objectives:
At the completion of the rotation, students should:
- Understand the basic principles of wound healing
- Understand the “reconstructive ladder” approach to any wound, from skin grafts to free tissue transfer
- Understand the basic evaluation of reconstructive and aesthetic surgical candidates

Location:
Experiences occur at JMH (XX%) and UMH (XX%).

Prerequisite:
Must have completed core clerkships in Internal Medicine and Surgery

Expectations:
In addition to clinical work, the senior students are required to give a 5-10 minute presentation on a subject agreed upon by the faculty and individual student.

Suggested Reading: Students will be given a basic Plastic Surgery handbook describing core knowledge in Plastic Surgery.
**Student evaluations and grading:**
All students will be evaluated by their attendance, participation and the short presentation on a plastic surgery topic of their choice.

**REPORT TO:** Plastic Surgery office, CRB 4th floor, at 9:00 A.M. to contact the chief resident at JMH.

Reviewed January 2015
SURGICAL INTENSIVE CARE UNIT

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<td>Gabriel Ruiz, MD</td>
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<td>TELEPHONE:</td>
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</table>

**NOTE:** ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

**Overview/Course Design:**
This rotation is offered to give 4th year students an introduction to the environment of the ICU and the unique subject matter that pertains to it. It also gives you the opportunity to see what happens after surgical emergencies, surgical complications, and transplants. Education is provided by morning rounds, student and housestaff presentations, reading, and by paying attention and asking questions!

**Goals/Objectives:**
- Describe systematic approach to a complicated patient
- Define techniques and complications of vascular access
- Describe basics of cardiovascular flow disorders, hemodynamic monitoring, and resuscitation
- Describe Respiratory failure, oxygenation and ventilation, and basics of mechanical ventilation
- Appreciate infection in the ICU and choice of antimicrobial therapy
- Describe basics of fluid and electrolyte disorders
- Describe basics of nutrition in the ICU

**Location:**
Students will rotate through the JMH SICU (100%).

**Prerequisite:**
Must have completed core clerkships in Internal Medicine and Surgery.

**Expectations:**
**Students’ role on the ICU team:**
- Pick-up up one to three patients to present on morning rounds.
- Strive to follow and understand all activity with all other patients.
- In the afternoon there is opportunity to watch and perform procedures and follow-up on the plan from the morning.
- To get the full ICU experience, students are required to stay for night call at least once per week. It is best to stay on the nights when the ICU fellow is on call.
- Additionally, students are expected to prepare a 15-minute talk, with handouts, once a week on a topic pertaining to one of their critically ill patients.
- Attendance at morning trauma report, M&M conferences, and noon teaching conferences is required.

**Suggested Reading:** The ICU Book, 2nd edition. Paul L. Marino.

**Student evaluations and grading:**
All students will be evaluated by the attending/ARNP in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

**REPORT TO:** SICU-A (3rd floor, DTC) at 7 a.m. on the first day of your rotation and introduce yourself to Salma Hernandez, before rounds to obtain your orientation packet.

Revised November 2015
TAYLOR BREAST HEALTH CENTER

COURSE CODE: MDR 945
CLERKSHIP DIRECTOR: Eli Avisar, M.D.
TELEPHONE: 305-243-4225
EMAIL: egotera@med.miami.edu
CONTACT/ADDRESS: Evelyn Gotera [CRB #410Q]
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: Internal Medicine & Surgery
NUMBER OF STUDENTS: 2
AVAILABLE: All year, EXCEPT block 7AB
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview:
This elective will consist of a 2 week or a 4 week block at the Taylor Breast Health Center. During this time, the student will have the opportunity to participate in the diagnosis and follow-up of patients with the full spectrum of breast diseases, most importantly breast cancer.

Course Design:
Didactic sessions will provide an introductory overview of benign breast disease and malignant breast disease. Clinical research opportunities may be available during the rotation at the student’s request. Patient interaction will be directed by the supervising physician.

Goals:
- Obtain a comprehensive breast-specific history
- Perform a comprehensive breast examination
- Become oriented to correct display and preliminary interpretation of mammograms and ultrasounds
- Observe needle biopsy procedures

Objectives:
To achieve a global understanding of multi-disciplinary care of breast disease and cancer, ideal for those interested in breast surgery, medical oncology, women’s health, breast imaging, and general medicine.

Location: JMH Taylor Breast Health Center, located in the first floor of the Diagnostic Treatment Center (100%).

Prerequisite:
Must have completed core clerkships in Internal Medicine and Surgery

Participating faculty:
Eli Avisar, M.D., Steven Rodgers, M.D., Pat Romilly, M.D., Christine Takita, M.D., Judith Hurley, M.D., Pedro Velez, M.D., Mecker Moller, M.D.
**Expectations:**
- Arrive on time.
- Give notice of anticipated absence if applicable.
- Mature, professional demeanor and dress.

**Student evaluations and grading:**
There will be a pre and post clerkship examination. At the conclusion of the rotation the student will be given the opportunity to present a case at our weekly breast presentation.

**REPORT TO:** JMH Taylor Breast Center, 1st floor, DTC. Email Dr. Avisar the week prior for contact info.

Reviewed January 2015
TRANSPLANT SURGERY

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<td>CLERKSHIP DIRECTOR:</td>
<td>Junichiro Sageshima, M.D.</td>
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<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
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<tr>
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<td>LENGTH OF ELECTIVE:</td>
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<td>Internal Medicine &amp; Surgery</td>
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NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview/Course Design:
The student will have responsibilities similar to a junior house officer, under strict supervision of the Transplant Team because of the critical care of these patients. The student will be present at the operation for vascular access surgery, general surgery on transplantation patients and chronic renal failure patients, which would include bilateral native nephrectomies (usually for difficult to control hypertension), kidney, liver, pancreas, and pancreatic islet transplants, and related surgery. In addition, issues related to native organ disease – kidney, pancreas, liver, leading to need for transplantation – will be covered. There will be weekly conferences and seminars in research and clinical problems in kidney, liver, and pancreas transplantation and participation in weekly immunobiology transplant conferences.

Goals/Objectives:
Objectives will be to observe and learn about transplantation surgery.

Location: Experiences occur at JMH (100%).

Prerequisite:
Must have completed core clerkships in Internal Medicine and Surgery

Expectations:
The student will have responsibilities similar to a junior house officer, under strict supervision of the Transplant Team because of the critical care of these patients.

Student evaluations and grading:
All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

REPORT TO: JMH West Wing 15 Transplant Unit @ 7:00 a.m.

Reviewed January 2015
TRAUMA ELECTIVE

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<td>Gabriel Ruiz, MD</td>
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<tr>
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</table>

**NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.**

**Overview:**
The trauma teams treat all patients requiring surgery who are admitted through the emergency room. In addition, the trauma teams are responsible for management of all major trauma victims brought to the Ryder Trauma Center, a Level-I Center.

**Course Design:**
This rotation will allow the student to care for major trauma victims and patients with non-trauma surgical emergencies.

**Goals/Objectives:**
Objectives will be to observe and learn about major trauma victim management and consults, including non-trauma surgical emergencies in the Emergency Care Center.

**Location:** JMH Ryder Trauma Center and Emergency Care Center (100%)

**Prerequisite:**
Must have completed core clerkships in Internal Medicine and Surgery

**Expectations:**
Students will be assigned to a fellow or chief resident and act as a sub-intern and are expected to remain until 10:00 PM on call days (staying overnight is encouraged but not required). All students are expected to participate fully in all team responsibilities.

**Student evaluations and grading:**
All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

**REPORT TO:** Ryder Trauma Center, TICU conference room #T-208 at 7:30 AM for morning rounds and contact Dr. Zakrison.
TRAUMA INTENSIVE CARE UNIT

<table>
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<tr>
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NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview/Course Design:
The students will gain an initial understanding of critical care and complex postoperative care of the critically ill trauma and surgical patient. Education is provided by morning rounds, student and housestaff presentations, reading, and by paying attention and asking questions!

Goals/Objectives:
- Describe systematic approach to a complicated patient
- Define techniques and complications of vascular access
- Describe basics of cardiovascular flow disorders, hemodynamic monitoring, and resuscitation
- Describe Respiratory failure, oxygenation and ventilation, and basics of mechanical ventilation
- Appreciate infection in the ICU and choice of antimicrobial therapy
- Describe basics of fluid and electrolyte disorders
- Describe basics of nutrition in the ICU

Location:
Students will rotate through the JMH Ryder Trauma Center TICU (100%).

Prerequisite:
Must have completed core clerkships in Internal Medicine and Surgery

Expectations:
Students’ role on the ICU team:
- Pick-up up one to three patients to present on morning rounds.
- Strive to follow and understand all activity with all other patients.
- In the afternoon there is opportunity to watch and perform procedures and follow-up on the plan from the morning.
- To get the full ICU experience, students are required to stay for night call at least once per week. It is best to stay on the nights when the ICU fellow is on call.
- Additionally, students are expected to prepare a 15-minute talk, with handouts, once a week on a topic pertaining to one of their critically ill patients.
- Attendance at morning trauma report, M&M conferences, and noon teaching conferences is required.

**Suggested Reading:** The ICU Book, 2nd edition. Paul L. Marino.

**Student evaluations and grading:**
All students will be evaluated by the attending/ARNP in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

**REPORT TO:** JMH Ryder Trauma Center, 2nd floor, TICU conference room #T-208 at 7:30 AM for morning rounds and contact Dr. Zakrison.

Reviewed January 2015
VASCULAR SURGERY

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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Handel R. Robinson, M.D.</td>
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<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
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NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview:
This rotation is a busy service treating the complete spectrum of vascular diseases including aneurysms of the aorta, cerebrovascular disease, mesenteric vascular disease, renovascular disease and peripheral vascular disease. In addition, endovascular procedures will be observed.

Course Design:
This rotation will allow the student to care for patients both pre-operatively and post-operatively. There will also be some experience interpreting non-invasive diagnostic tests to tailor the operation for specific vascular problems. Conferences with the attendings are held on a weekly basis.

Goals/Objectives:
Students will learn how to recognize, diagnose and treat the most common vascular diseases.

Location: The student will be at JMH (XX%), VAMC (XX%), and UMH (XX%) hospitals.

Prerequisite: Must have completed core clerkships in Internal Medicine and Surgery

Student evaluations and grading:
All students will be evaluated by the attending in charge on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

Students are required to stay until 10 PM when on night call.

REPORT TO: JMH East Tower (Holtz Center), 3016-Vascular Surgery Office at 7:30 a.m. or JMH pager 0909 or 0906

Reviewed January 2015
WOUND HEALING ELECTIVE
(Listed under both Dermatology and Surgery)

COURSE CODE: MDR 806

CLERKSHIP DIRECTOR: Christopher J. Salgado, MD (Director)
Robert S Kirsner MD, PhD (Co-Director)

TELEPHONE: 305-243-4225

CONTACT: Evelyn Gotera [CRB #410Q]

EMAIL: egotera@med.miami.edu

LENGTH OF ELECTIVE: 2 or 4 weeks

PREREQUISITE: None

NUMBER OF STUDENTS: 4

AVAILABLE: All year, EXCEPT block 7AB

U.S. VISITING STUDENTS: Yes

INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval

TYPE: Clinical with research opportunity if 4 week rotation

NOTE: ANY schedule changes involving ALL General Surgery rotations must be authorized by Evelyn Gotera (see above for contact information) before your schedule can be officially changed.

Overview:
- The student will be exposed to a multitude of difficult-to-heal wounds in the lower extremity (i.e. diabetic foot ulcers, venous ulcers), trunk (pressure sores), upper extremities (traumatic, infected), and head and neck (cancers, etc.)
- Students will interview patients with chronic and acute wounds and identify critical pathways that will lead to the diagnosis, etiology, pathophysiology and treatment of these difficult-to-heal wounds.
- Students will learn to care for these wounds and make clinical interventions and recommendations to their healing.

Course Design:
The student will spend four days a week at the University of Miami Wound Healing Center participating in the care of patients with complex wounds. The student will have the opportunity to see a multi-disciplinary approach to complex wound care working with University of Miami Dermatologists, Vascular Surgeons, General Surgeons, Plastic Surgeons, Internists, Hyperbaricists, and Podiatrists (depending on who is staffing the wound care clinic that day). During this time, they will also spend time working with physicians performing hyperbaric medicine. One day a week (Tuesday) will be spent in the operating room dealing with extensive debridement as well as the reconstruction and closure of wounds that were not manageable with local wound care options. Operative cases will be performed either at the University of Miami Hospital or Jackson Memorial Hospital. All students will meet with Dr. Salgado, the course director, weekly on Tuesdays, and they are expected to attend wound care conferences if given and any pertinent plastic surgery wound care related didactic lessons if given that week.

Goals:
- Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiology examinations, and cognitive skills as they relate to the diagnosis and treatment of acute and chronic wounds.
• Familiarize the medical student with the care of acute and chronic wounds using various methods including:
  o Debridement, both mechanical and enzymatic, to obtain a clean non-infected wound
  o Chronic care, with a multitude of current state of the art wound care therapies using gels, dermal and epidermal substitutes, xenografts, etc.
• Familiarize the student with the care of patients with wounds of pressure, arterial, venous, and lymphatic etiologies.
• Familiarize the patient with vacuum assisted therapy biology and indications.
• Familiarize the patient with hyperbaric oxygen treatment and its current indications.
• Reinforce a critical approach to the medical literature.

Objectives:
B. The medical student will be expected to be familiar with the basic evaluation and management of the following disorders by attendance in the wound care clinic:
  • Venous stasis ulcers
  • Diabetic foot ulcers
  • Pressure sores of the sacrum, ischium, greater trochanter, limbs
  • Inflammatory ulcers
  • Acute surgical and post surgical wounds
C. The medical student will be expected to have read and discussed with fellows and/or faculty members the basic aspects of the following clinical evaluations and interventions to wound healing:
  • Basic analysis of a chronic wound including staging and measurement analysis
  • Vascular examination of a limb with Doppler examination, ABIs, PVRs, and transcutaneous oxygen measurement
  • Debridement
  • Basic wound care therapy with enzymatic debriders, vacuum assisted therapy, compression, off loading and gels
  • Application of xenografts, dermal and epidermal skin substitutes.
D. Students will be evaluated on their ability to perform the following competencies:
  • Perform and interpret the findings of a problem-focused history, physical examination with completion of a medical record and a differential diagnosis.
  • Understand the multi-disciplinary approach to the care of a patient with a chronic wound.
  • Demonstrate the ability to perform effective debridement and dressing skills.
  • Perform hand hygiene before and after patient care.
  • Ability to interpret lab studies. (i.e. WBC, H/H, BUN and Cr levels and ability to describe significance).
  • Formulate and implement an appropriate plan of management for consultations and referrals.
  • Ability to make an adequate assessment of a pressure sore according to staging criteria.
  • Ability to adequately assess a chronic wound of the leg, including a vascular exam with Doppler ultrasound, and ABI
  • Ability to interpret special studies (i.e. PVRs, MRI, Bone Scan and CTs)
  • Understand and respect the ethical boundaries and interactions with patients, colleagues and employees.
  • Read, interpret and critically examine present medical and scientific literature.

Location:
University of Miami Hospital Wound Care Center and Operating Room (XX%) and Jackson Memorial Hospital Operating Room (XX%).
**Participating Faculty:**
Faculty and staff from the Department of Wound Care and Hyperbaric Medicine Clinic at the University of Miami Hospital, some of whom are also faculty in the Departments of Surgery, Dermatology, Physical Medicine/Rehabilitation, and Internal Medicine.

**Prerequisite:**
None

**Expectations:**
The student will be expected to participate in all activities (wound care clinic, procedures in clinic and operating room) and be on time. The course director needs to be informed of all absences. Professionalism as mandated by the Miller School of Medicine is expected.

**Student Evaluation and Grading:**
The medical student will receive a written evaluation at the end of the 2 weeks or month. This will be reviewed with the student by the faculty evaluator.

**REPORT TO:** Email Dr. Salgado prior to start date for location to meet.

Reviewed January 2015
**HOLY CROSS HOSPITAL CARDIOThoracic Surgery**

**COURSE CODE:** MDR 941  
**CLERKSHIP DIRECTOR:** Irving David, M.D. and Alexander Justicz, M.D.  
**TELEPHONE:** 954-732-1299  
**EMAIL:** idavidmd@gmail.com or Alexander.Justicz@holy-cross.com  
**CONTACT:** Joseph Sollecito, jsollecito@med.miami.edu, 561-886-1202  
**LENGTH OF ELECTIVE:** 4 weeks  
**PREREQUISITE:** Completion of all core clerkships  
**NUMBER OF STUDENTS:** 1  
**AVAILABLE:** All year  
**U.S. VISITING STUDENTS:** None  
**INTERVIEWING TIME:** No  
**TYPE:** Clinical

**Overview:** Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

**Students are required to obtain clerkship director approval before registration is considered final – Please contact Joseph Sollecito prior.**

**Course Design:** The student will work with Dr. David and Justicz and other colleagues at Holy Cross. Students will participate in rounds, scrub on OR cases, and discuss current problems and treatment options. Students will be expected to present cases demonstrating pertinent background reading.

**Goals/Objectives:** Students will learn how to recognize, diagnose and treat conditions encountered by the Cardiovascular and Thoracic Surgeon. The student will also be able to develop, demonstrate and articulate appropriate operative and perioperative management of the common diseases encountered by the CV surgeon.

**Location:** (100%)
- Holy Cross Hospital and Clinics  
- Jim Moran Heart and Vascular Center  
- 4725 North Federal Highway  
- Fort Lauderdale, FL 33308

**Participating Faculty:**
- Irving David, M.D.  
- Alexander Justicz, M.D.

**Prerequisite:** Must have completed all core clerkships.
**Expectations:** Students’ hours on the elective are from 6 AM to 7PM Monday through Friday and one day on the weekend. Students are required to take night call from home during the rotation on a limited basis. Students’ duty hours will not exceed 80 hours per week, and will have at least one day off in seven.

Specifically, the student will:
- act as primary provider, under the supervision of the above named faculty, of selected patients, with duties to include:
  - Perioperative evaluation
  - Order writing
  - Discharge planning
- evaluate surgical patients in the Emergency Room and present each case to the faculty member
- formulate and articulate care plans for Surgical patients
  - scrub on appropriate operations and serve as 1st or 2nd assistant
  - learn to perform appropriate post-operative wound care
  - evaluate for post-operative complications
- perform cardiovascular and thoracic surgery consultations, under the supervision of the faculty
  - demonstrate an ability to interpret chest x-rays, chest CT scans, and EKG’s

The students will also be expected to attend the following conferences:
- Medical Grand rounds
- Thoracic Oncology conference
- Combined Cardiac Surgery/Cardiology conference

**Student Evaluation and Grading:** All students will be evaluated by the faculty on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

Revised January 2015
JUPITER MEDICAL CENTER CARDIOTHORACIC SURGERY ELECTIVE

COURSE CODE: MDR 1014
CLERKSHIP DIRECTOR: K. Adam Lee, M.D.
TELEPHONE: 561-886-1202
EMAIL: jsollecito@med.miami.edu
CONTACT: Joseph Sollecito, jsollecito@med.miami.edu, 561-886-1202
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: Internal Medicine and Surgery Clerkships
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and background checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
This elective in cardiothoracic surgery will provide students the ability to learn in a preceptor based model about the management of diseases of the thorax. The student will work as an active member of the thoracic team; engaging with patients in the thoracic clinic, performing preoperative and post-operative assessment, as well as hospital rounds. The student will be introduced with hands on experience with leading edge technologies as EndoBronchial Ultra-sound (EBUS), Navigational bronchoscopy, Robotic surgery as well as VATS and open procedures.

Course Design:
The student will function as a member of the thoracic division, working closely with Dr. K. Adam Lee and colleagues at Jupiter Medical Center. Students will participate in rounds, consults, scrub on operative cases, present in tumor board and lung nodule clinic, and examine patients in clinic and hospital.

Goals:
Students will learn how to recognize, diagnose, and treat conditions involving the thorax. The student will also be able to develop, demonstrate and articulate pre-op, operative, and post-operative management as well as non-operative options for the treatment of common diseases encountered by the thoracic surgeon.

Location: (100%)
Jupiter Medical Center
1240 S. Old Dixie Hwy
Jupiter, FL 33458

Participating Faculty:
K. Adam Lee, M.D.

Prerequisite:
Internal Medicine and Surgery
Expectations:
- Student hours on the elective are Monday-Friday from 7:30-4pm with option to stay later with ongoing surgical cases and consults. Student duty hours will not exceed 80 hrs. per week. Specifically, the student will:
  - act as primary provider, under the supervision of the above named faculty, of selected patients, with duties to include:
    - Perioperative evaluation
    - Order writing
    - Discharge planning
  - evaluate surgical patients in the Emergency Room, clinic and present each case to the faculty member
  - formulate and articulate care plans for Surgical patients
  - scrub on appropriate operations and serve as 1st or 2nd assistant
  - learn to perform appropriate post-operative wound care
  - evaluate for post-operative complications
  - perform thoracic surgery consultations, under the supervision of the faculty
  - demonstrate an ability to interpret chest x-rays, chest CT scans, and EKG’s

The students will also be expected to attend the following conferences:
- Thoracic Oncology conference
- Lung nodular clinic conference

Student Evaluation and Grading:
- The medical student will receive a written evaluation at the end of the month.
- **Pass/Fail** dependent upon attendance, participation, professionalism, clinical skills, and assigned presentations.
- Attendance is mandatory for all assigned conferences and clinical activities.

Reviewed January 2015
HOLY CROSS HOSPITAL COLORECTAL SURGERY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Elie Schochet, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-886-1202</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:JSollecito@med.miami.edu">JSollecito@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine and Surgery</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
This is a 2 or 4 week elective that will provide students with an exposure to a private practice specializing in colorectal surgery. The student will be one-on-one with a colorectal surgeon. Dr. Schochet specializes further in high resolution anoscopy, HIV-related anal disease and minimally invasive surgery.

Course Design:
Students will see patients Monday-Friday in the outpatient private practice evaluating patients for potential operative intervention, take part in any outpatient procedures, participate in operative procedures at Holy Cross Medical Center, and follow up on post-operative patients at the hospital.

Goals:
The elective will familiarize the student with common colorectal and anorectal disorders and the surgical treatment of these disorders. Additionally, the student will develop skills in abdominal and anorectal physical examinations.

Objectives:
- Understand colon and rectal cancer, staging and the surgeries performed to treat colorectal cancer.
- Observe and participate in office procedures and surgeries for common anorectal disorders such as anoscopy.
- Understand other diseases affecting the colon such as colitis, diverticulitis, constipation, and how they are managed both conservatively and surgically.
- Attend colorectal clinic and gain experience in the outpatient management of many colorectal/anorectal disorders.
- Understand how to perform a thorough abdominal and anorectal examination.

Location:
Holy Cross Hospital
1940 NE 47 Street, Suite 1
Fort Lauderdale, FL 33308
**Participating Faculty:**
Elie Schochet, M.D.

**Prerequisite:**
Internal Medicine and Surgery Clerkships

**Expectations:**
- Mandatory attendance at all outpatient clinics, operative procedures, and inpatient rounds
- Monday-Friday (Morning Rounds-Afternoon clinics)
- Completion of assigned readings

**Student Evaluation and Grading:**
- **Pass/Fail** dependent upon attendance and participation.
- The student will receive an evaluation with written comments.
- The student will be asked to complete an evaluation of the elective.

Reviewed January 2015
HOLY CROSS HOSPITAL GENERAL SURGERY ELECTIVE

<table>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Christopher Seaver, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>954-351-7770</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:Christopher.Seaver@holy-cross.com">Christopher.Seaver@holy-cross.com</a> or <a href="mailto:Crseaver@hotmail.com">Crseaver@hotmail.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Students must be approved by the Clerkship Director before they are considered final. Students should email to obtain prior approval.

Overview:
The elective in General Surgery will focus on Open and Laparoscopic General Surgery, Surgical Oncology, Colorectal Surgery and Vascular Surgery. The cases include cholecystectomies, colon resections, hepatobiliary and pancreatic surgery, complex hernia repairs, distal bypasses, aortic aneurysms and vascular stenting. In addition, appendectomies, hernias, hemorrhoid operations, as well as other outpatient procedures will be part of the surgery experience.

Course Design:
During this elective the student will work one on one with the assigned faculty member. This will include daily teaching rounds on the inpatient ward, pre-operative and post-operative assessments, as well as operative experience in the areas mentioned. Work round responsibilities, clinics and the student’s level of responsibilities on the wards, outpatient clinic and in the operating room will be that of a sub-intern. The student will be supervised directly by the assigned attending faculty member. Although there are no overnight call requirements, the student will be asked to participate in after-hour evaluations of emergency patients.

Goals/Objectives:
Students will learn how to recognize, diagnose and treat the most common surgical problems. In addition, the student will be able to improve his or her surgical skills.

Faculty:
Christopher Seaver, M.D.
Michael Perez, M.D.

Location:
Holy Cross Hospital
4725 North Federal Highway
Ft. Lauderdale, FL 33308
Holy Cross Medical Group General Surgery/Bariatric Practice
4800 NE 20th Terrace, Suite#303
Fort Lauderdale, FL 33308

**Prerequisite:**
Must have completed all the core clerkships.

**Expectations:** The student will be expected to work on a daily basis, including one weekend day. Although there is no overnight call, the student may be asked to come into the hospital for patients who require emergency intervention after hours. The student’s schedules will adhere to the duty hour regulations for medical students. Students must be provided with one day (24 hrs) in seven free from all required clinical and educational responsibilities. The student must abide by the 80 hour limit. In addition, on-site duty must not exceed 16 consecutive hours, plus an additional six hours to participate in didactic activities and the transfer of care of patients.

**Student evaluations and grading:**
All students will be evaluated by the attending in charge on their participation, professionalism, clinical skills, and medical knowledge. Attendance is mandatory for all assigned conferences and rounds.

Revised January 2015
JFK MEDICAL CENTER SURGERY SUB-INTERNSHIP

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 948</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Robert Kozol, M.D., <a href="mailto:robert.kozol@hcahealthcare.com">robert.kozol@hcahealthcare.com</a> 561-548-1425</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>Susan Mayorga, 561-886-1207</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:smm166@med.miami.edu">smm166@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Susan Mayorga, <a href="mailto:smm166@med.miami.edu">smm166@med.miami.edu</a>, 561-886-1207</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>No</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
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<td>TYPE:</td>
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</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview: This unique surgery elective will allow the student to learn in a preceptor based mode about the surgical management of common gastrointestinal and endocrine disorders. The student will be exposed to both open and laparoscopic operations, treating a broad spectrum of surgical entities. The student will also engage in preoperative and postoperative assessment and treatment of patients, with an emphasis on continuity of care.

Course Design: The student will work with Dr. Kozol and the resident team. Students will participate in rounds, scrub on OR cases, and discuss current problems and treatment options. Students will be expected to present cases demonstrating pertinent background reading.

Goals/Objectives: Students will learn how to recognize, diagnose and treat the most common diseases encountered by the General Surgeon, with an emphasis on diseases of the GI tract. The student will also be able to develop, demonstrate and articulate appropriate operative and perioperative management of the common diseases encountered by the General Surgeon. The student is expected to act as the primary provider for selected patients.

Location: JFK Medical Center, Atlantis, FL (100%)

Participating Faculty: Robert Kozol, M.D.

Prerequisite: Must have completed all core clerkships.

Expectations: Students' hours on the sub-internship are from 6 AM to 7PM Monday through Friday and one day on the weekend Students are required to take night call from home during the rotation. Students will not have clinical responsibilities post call after AM rounds but may be required to stay for educational activities. Students participating in on-call responsibilities are not to exceed 80 hours per week or more than 24 consecutive hours of new patient contact, with 6 hours allowed for patient follow-up and hand-off (total of 30 hours consecutive). The students will have at least one day off in seven.
Specifically, the sub I will:
- act as primary provider, under the supervision of Dr. Kozol, of selected patients, with duties to include:
  i. Order writing
  ii. Perioperative evaluation
  iii. Discharge planning
  iv. Primary communicator with patient and family (with Dr. Kozol’s guidance)
- evaluate surgical patients in the Emergency Room and present each case to the faculty member
- formulate and articulate care plans for Surgical patients
- scrub on appropriate operations and serve as 1st or 2nd assistant
- learn to perform appropriate post-operative wound care
- evaluate for post-operative complications
- perform general surgery consultations, under the supervision of Dr. Kozol and residents
- demonstrate an ability to interpret chest x-rays, abdominal films and abdominal CT scans
- observe endoscopy on Surgical patients and learn normal endoluminal anatomy
- research, organize and present a topical power point presentation
- learn how the 6 ACGME core competencies relate to Surgical students and residents

The sub I will be expected to attend and participate in GI tumor board every other Wednesday and Surgery M&M conference each Thursday.

**Student Evaluation and Grading:** All students will be evaluated by Dr. Kozol on their professionalism, clinical skills, and participation. Attendance is mandatory for all assigned conferences, rounds and/or presentations and will be taken into consideration.

Reviewed January 2015
RMC PLASTIC SURGERY ELECTIVE

COURSE CODE: MDR 1007
CLERKSHIP DIRECTOR: Dr. Alan Pillersdorf
TELEPHONE: 561-935-4761
EMAIL: JSollecito@med.miami.edu
CONTACT: Joseph Sollecito, jsollecito@med.miami.edu, 561-886-1202
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: Surgery & Internal Medicine clerkships
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: 1 day (2wks) OR 2 days (4wks), with prior approval
TYPE: Clinical

Overview:
This is a 2 or 4 week rotation intended for the senior medical student who is interested in plastic surgery as a career choice or simply wants exposure to the field. The rotation will provide a comprehensive exposure to all facets of aesthetic plastic and reconstructive surgery in a community setting.

Course Design:
The student will be with Dr. Pillersdorf and his partners Monday-Friday in his private office and his outpatient surgery center. The student will scrub on cases and review pertinent case information prior to the surgery. Students participate in the pre-operative planning, operative management, and post-operative care of plastic and reconstructive surgery patient in the clinic setting. Students will learn plastic techniques in the operating room including minimally invasive procedures such as endoscopic brow lifts, ultrasonic liposuction, Smart Incision breast augmentation and short scar facelifts. Students will also have exposure to patients who have undergone massive weight loss and need to undergo brachioplasty, medial thigh lift, extended abdominoplasty and breast lifts.

Goals:
At the completion of the rotation, students should:
• Understand the basic principles of wound healing.
• Understand the “reconstructive ladder” approach to any wound, from skin grafts to free tissue transfer.
• Understand the basic evaluation of reconstructive and aesthetic surgical candidates.

Objectives:
• Read assigned pre-operative journal articles
• See pre-operative and post-operative patients with Dr. Pillerdorf at his practice
• Participate in surgical procedures
Location:
Students will see patients at the three practice locations listed below.

West Palm Beach Location  
Wellington Location  
Jupiter Location  
1620 S. Congress Ave Ste 100  
10115 Forest Hill Blvd Ste 400  
601 University Blvd Ste 203  
Palm Springs, FL 33461  
Wellington, FL 33414  
Jupiter, FL 33458

Participating Faculty:
- Dr. Alan Pillersdorf  
- Dr. Alberto Navarro  
- Dr. Dov Eidelman  
- Dr. Ernesto Hayn

Prerequisite:
Core surgery and internal medicine clerkships

Expectations:
In addition to clinical work, students are required to give one 5-10 minute presentation on a subject agreed upon by the faculty and individual student.

Student Evaluation and Grading:
- Pass/Fail  
- All students will be evaluated by their attendance, participation, and the short presentation on a plastic surgery topic of their choice.

Note: Students can optionally attend any relevant medical administrative meetings that Dr. Pillersdorf chairs i.e.: Florida Medical Association, Palm Beach County Society of Plastic Surgery, and Florida Chapter of the American College of Surgeons.

Revised January 2015
UROLOGY
UROLOGY (Female)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christopher Gomez, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-3670</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jackie Meneses (Dominion Tower #501 M-814)</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jmeneses@med.miami.edu">jmeneses@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 to 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine &amp; Surgery</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
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<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
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</table>

Overview:
Female urology/voiding dysfunction is a surgical subspecialty within Urology dealing with problems with urination. During this elective, the senior clerk will have the opportunity to participate in the evaluation and the medical and surgical treatment of female and male voiding dysfunction.

Course Design:
The rotation will be divided between outpatient clinic, the operating room, and teaching conferences.

Goals/Objectives:
Students will learn how to recognize, diagnose and treat the most common illnesses of the genitourinary tract.

Location:
Students will rotate through the outpatient clinics and surgery at UM (XX%) and surgery at JMH (XX%).

Prerequisite:
Must have completed core clerkships in Internal Medicine and Surgery

Student evaluations and grading:
Dr. Gomez will evaluate students based on professionalism, clinical skills for their level, and on their level of participation (i.e. attendance at conference, punctuality for rounds, etc.)

Must check-in with Jackie Meneses one week prior to the beginning of the rotation.

Revised January 2015
UROLOGY (Out Patient)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christopher Gomez, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-3670</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jackie Meneses (Dominion Tower #501)</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jmeneses@med.miami.edu">jmeneses@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 to 4 weeks</td>
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<td>PREREQUISITE:</td>
<td>Internal Medicine &amp; Surgery</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
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<td>U.S VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
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Overview:
This elective is offered to those students who are particularly interested in Urology as a career choice. It is designed so that the student will participate as a team member on each service he/she rotates on and will accept responsibilities and perform duties commensurate with his/her ability.

Course Design:
Students will learn to do a complete examination of the male genitourinary system. They will attend the outpatient clinics at Jackson, UM, and the VAMC where they will become familiar with office based procedures (cytoscopy, stent removal, ultrasound and biopsy, vasectomy) on both male and female patients and will have the opportunity to present their findings to both the housestaff and the faculty. They will also observe the faculty caring for patients in the private outpatient setting.

Goals/Objectives:
Students will learn how to recognize, diagnose and treat the most common illnesses of the genitourinary tract in both males and females.

Location:
Students will rotate through the outpatient clinics at Jackson (XX%) and our attendings’ private clinics at PAC (XX%).

Prerequisite: Must have completed core clerkships in Internal Medicine and Surgery

Expectations:
Supervision will be by housestaff and faculty. The student will spend about twenty percent of his/her time in the operating room. The student will attend all teaching conferences during the elective time.

Student evaluations and grading:
Students will be evaluated by the faculty based on observation and informal oral examinations. They are judged on their professionalism, clinical skills for their level, and on their level of participation (i.e. attendance at conference, punctuality for rounds, etc.)

Must check-in with Jackie Meneses one week prior to the beginning of the rotation.

Reviewed January 2015
# UROLOGY (Subinternship)

<table>
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<th>COURSE CODE:</th>
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<tr>
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<tr>
<td>TELEPHONE:</td>
<td>305-243-3670</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jackie Meneses (Dominion Tower #501)</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jmeneses@med.miami.edu">jmeneses@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All Year</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

## Overview:
This elective is offered to those students who are particularly interested in Urology as a career choice. It is designed so that the student will participate as a team member on each service he/she rotates on and will accept responsibilities and perform duties commensurate with his/her ability.

## Course Design:
Students will participate in regular daily rounds, and assist in the operating room, outpatient clinic, and will attend teaching conferences.

## Goals/Objectives:
Students will learn how to recognize, diagnose and treat the most common illnesses of the genitourinary tract in both males and females.

## Location:
The student will rotate through the Urology services at Jackson (XX%), at UMH (XX%), and at the VAMC (XX%).

## Prerequisite:
Must have completed core clerkships in Internal Medicine and Surgery

## Expectations:
In addition to participation on daily rounds and assisting in the operating room and outpatient clinics, each student will be expected to give a short didactic talk (15-20 minutes) on his/her choice of urology topic. Because Urology is an early match, it is most beneficial if the student completes the rotation before November of his/her senior year.

## Student evaluations and grading:
Students are evaluated on their professionalism, clinical skills for their level, and on their level of participation (i.e. attendance at conference, punctuality for rounds, etc.)

Must check-in with Jackie Meneses one week prior to the beginning of the rotation.
Students need to meet with Dr. Christopher Gomez on the 1st Monday of the rotation at PAC suite 309 at 8:00 am.

Reviewed January 2015
UROLOGY (Elective)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 938</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christopher Gomez, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-3670</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Jackie Meneses (Dominion Tower #501)</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jmeneses@med.miami.edu">jmeneses@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 to 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine &amp; Surgery</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

Overview:
As much as 30% of all visits of elderly men to the primary care physician can relate to symptoms and disorder of the genitourinary tract. Physician should at least be conversant on these common ailments (i.e., BPH, Prostate cancer, Incontinence, Impotence, Stones, or Hematuria).

Course Design:
In this elective the student will have both outpatient and some operating room experience.

Goals/Objectives:
Students will learn how to recognize, diagnose and treat the most common illnesses of the genitourinary tract in both males and females.

Location:
- JMH, including ACC Clinic (XX%)
- UMH (XX%)
- UM PAC attendings’ private clinics (XX%)

Prerequisite:
Must have completed core clerkships in Internal Medicine and Surgery

Student evaluations and grading:
The housestaff and the attendings will supervise the student. Students are judged on their professionalism, clinical skills for their level, and on their level of participation (i.e. attendance at conference, punctuality for rounds, etc.).

Must check-in with Jackie Meneses one week prior to the beginning of the rotation.

Reviewed January 2015
UROGYNECOLOGY SUB-INTERNSHIP
(Listed under both Obstetrics & Gynecology and Urology)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 955</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Carlos Medina, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5160, 305-243-3115</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cmedina@med.miami.edu">cmedina@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Tameka Collins; <a href="mailto:tcollins@med.miami.edu">tcollins@med.miami.edu</a>; 305-585-5586</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of Core Clerkships</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical, and research, if desired</td>
</tr>
</tbody>
</table>

NOTE: ANY schedule changes involving ALL Obstetrics & Gynecology rotations must be authorized by Tameka Collins (see above for contact information) before your schedule can be officially changed.

Overview:
The objective of this sub-internship is to improve the students' knowledge and skills in evaluating and managing women with pelvic organ prolapse (POP) and urinary incontinence. The student will develop an understanding of pelvic anatomy, become familiar with surgical principles and develop proficiency in evaluating and recognizing the various types of POP, urinary incontinence and voiding disorders. Student participating in the sub-internship will also become familiar with the surgical management of POP and urinary incontinence, and have greater exposure to other common types of pelvic floor dysfunction such as; fecal incontinence, constipation, urinary tract infections, bladder and pelvic pain, urethral diverticulum, and sexual dysfunction.

Course Design:
This course may be taken as a four week rotation in the University of Miami Division of Female Pelvic Medicine and Reconstructive Surgery (Urogynecology). The rotation will take place at University of Miami Hospital, Jackson Memorial Hospital and Kendall Medical Center. The student will become familiar with the clinical setting and learn to evaluate patients with POP, urinary incontinence, fecal incontinence, voiding dysfunction, pelvic pain and sexual dysfunction. The student is expected to attend urogynecology clinic and evaluate patients under the supervision of the chief resident, urogynecology fellow and attending physician. The student will become familiar with the non-surgical and surgical treatments of these conditions and will learn to counsel patients regarding choice of treatment, preoperative evaluations and postoperative course. The student will have hands-on experience with basic office procedures, urodynamic studies and pessary fitting. The student is expected to scrub and assist in surgical cases (students in a four week rotation will be instructed in basic surgical techniques that will include opening and closing the abdomen and knot tying).

There will be several scheduled lectures and discussions with Dr. Medina on pelvic anatomy, pathophysiology of POP and urinary incontinence, urodynamic testing and overall management of pelvic floor dysfunction. Students will be required to do a literature search on a selected topic and present the topic at the end of the rotation. During this period of time the student will also have the opportunity to be involved in research.
### Schedule

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urogynecology Clinic</td>
<td>9am to 5 pm at UMH Suite 3</td>
<td>9:30am - 4pm, Kendall Medical Center</td>
<td></td>
<td></td>
<td>Hialeah clinic 9:30 am to 4 pm (2nd Friday of each month)</td>
</tr>
<tr>
<td>Operating Room (Surgical Experience)</td>
<td>7:30am-5pm</td>
<td></td>
<td></td>
<td>8:30 am-5pm</td>
<td>10 am – 4 pm (as needed)</td>
</tr>
<tr>
<td>Cystoscopy Clinic</td>
<td></td>
<td>Kendall (during clinic)</td>
<td>8:30 am to 12 noon – 2nd Thursday (suite 201)</td>
<td></td>
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<tr>
<td>Urodynamic Laboratory</td>
<td></td>
<td></td>
<td>Optional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case presentation and preoperative meetings</td>
<td>12 noon (UMH suite 4113)</td>
<td></td>
<td></td>
<td>12 noon (UMH suite 4113)</td>
<td></td>
</tr>
<tr>
<td>Topic and Lecture</td>
<td></td>
<td></td>
<td></td>
<td>12 noon (UMH suite 4113)</td>
<td></td>
</tr>
<tr>
<td>Ward rounds</td>
<td>None</td>
<td>7:00am-8am</td>
<td>7:00am-8am</td>
<td>8:00am- 8:30 am</td>
<td>8:00 am</td>
</tr>
<tr>
<td>Reading/Research time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8am-10am</td>
</tr>
<tr>
<td></td>
<td>Variable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Goals:

1. Describe the surgical anatomy of the pelvic floor including genital, urinary, and colorectal elements to provide patient care, under appropriate supervision, as assigned by the training program director or his/her designee, consistent with the educational goals of the program and the highest standards of patient care ("patient care" includes responsibility for associated documentation in the medical record, which should be completed in a timely fashion, and attendance at patient care rounds as assigned)

2. To make appropriate use of the available supervisory and support systems, seeking advice and input from the attending staff physician/s when and as appropriate, and in accordance with the Resident Supervision and Teaching Standards of the Health System;

3. To participate fully in the educational and scholarly activities of the training program as specified by the training program director, including attendance at didactic conferences and other responsibilities which may include a research project, completion of examinations, maintenance of procedure logs or other items

4. To develop a personal program of learning to foster continued professional growth, with guidance from the teaching staff

### Objectives:

1. Explain the normal anatomic supports and support mechanisms of the vagina, rectum, bladder, urethra and uterus.
2. Discuss normal and abnormal lower urinary tract, colorectal and vaginal function.
3. Discuss the differential diagnosis of urinary and anal incontinence, including the pathophysiology and the specific risk factors contributing to the most prevalent types of incontinence.
4. Summarize the normal functions of the lower urinary tract during filling and voiding phases, and the mechanisms of urinary incontinence.
5. Obtain a specific urological history, describe and employ standard terminology related the problem investigated, as well as evaluate the severity of the symptoms and impact these symptoms have on the patient’s overall wellbeing.
6. Perform a direct physical evaluation, specifically a thorough pelvic evaluation utilizing appropriate diagnostic techniques to elicit probable causes for the incontinence and be able to characterize the major types of urinary incontinence.
7. Describe the indications for urodynamic testing, the various components, and be able to interpret the results.
8. Characterize various types of voiding disorders.
9. Discuss non-surgical therapeutic modalities to treat urinary incontinence.
10. Define the most common surgical procedures utilized to treat urinary incontinence and understand their indications, contraindications.
11. Perform a specific pelvic evaluation utilizing appropriate diagnostic techniques to evaluate pelvic organ prolapse utilizing primarily the POP-Q system.
12. Differentiate between selected tests to characterize lower urinary tract disorders [residual urine, Q-tip testing, simple cystometry, Puff questionnaire, and Potassium Sensitivity test].
13. Describe the most common surgical procedures utilized to treat pelvic organ prolapse.
14. Obtain a specific history to evaluate fecal incontinence, perform a direct physical evaluation and select necessary diagnostic tests to evaluate the condition.
15. Describe the following conditions: vesicovaginal fistula, rectovaginal fistula, urethral diverticulum, urethritis, urethral syndrome, and interstitial cystitis.

The student will accomplish the objectives and goals of the rotation by the following:
1. Assigned readings (text material provided)
2. Specific literature search
3. Lectures and case discussions with Dr. Medina (UMH Suite 4113)
4. Active participation in ward rounds (UMH 11N)
5. Clinic experience (UMH and Kendal Medical Center)
6. Cystoscopy clinic (UMH and KMC Urodynamic Lab)
7. Urodynamic studies (KMC – Urodynamic Lab)
8. Surgical experience (UM/JMH/Sylvester Cancer Center)

Location:
- Jackson Memorial Hospital (20%-40%)
- UMH (40%-60%)
- Kendal Medical Center (20%)

Participating faculty:
Dr. Medina (offices in Holtz Center 7007, phone number 305-585-5160, office at UMH Suite 4113, phone number 305-243-3115); secretary – Mayra Cespedes 305-585-5160 or 305-243-3115; coordinator – Tameka Collins, phone number 305-585-5586.

Prerequisite:
Completion of Core Clerkships. (Preferably a student with strong interest in OB/GYN or surgery)

Expectations:
1. Complete assigned readings
2. Complete assigned literature search and presentation
3. Attend scheduled lectures and meetings (present cases and actively participate in discussions)
4. Attend ward rounds (evaluate patients)
5. Attend clinics and evaluate patients
6. Attend scheduled surgical cases (observe and assist)
7. Function as a member of the urogynecology team (responsibilities)
8. Expected to meet the goals of the rotation by fulfilling the learning objectives
9. Attend Grand Rounds on Thursday mornings unless excused by Dr. Medina

**Student evaluations and grading:**
Grading will be pass/fail based on:
- Attendance at all scheduled sessions
- Motivation and involvement in patient evaluation and management
- Case presentations
- Review of literature on GYN-GU topics

There will be no written examinations. Students will be assessed on their general understanding of the subject (from a specific list of topics), ability to evaluate clinical cases, surgical experience and topic presentations.

Revised January 2014
RMC UROLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 993 [ON HOLD 2015-2016]</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Robert Gold, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-737-9191</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:robertggold@gmail.com">robertggold@gmail.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito, <a href="mailto:jsollecito@med.miami.edu">jsollecito@med.miami.edu</a>, 561-886-1202</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Core Internal Medicine and Core Surgery Clerkships</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All Year</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day (2wks) OR 2 days (4wks), with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

Please contact a minimum of a month before the start of the rotation to complete hospital specific orientation requirements. Some hospitals have significant paperwork and backgrounds checks that need to be done far in advance. There may be a costly fee for the background check.

Overview:
This course will expose the student to general urology in a busy office setting, at the hospital for daily rounds, and in the operating suite, where the student will scrub in surgical cases as a first or second assistant.

Course Design:
The student will work closely with Dr. Gold and with the other physicians and staff at the Urology Center of South Florida. The student will be evaluating patients in the office and hospital, presenting findings and discussing the treatment plan with attending staff, and participating in a wide variety of minor office procedures as well as surgical procedures in the OR.

Goals:
The student will learn the basics of genitourinary evaluation in males and females, learn how urologists treat a wide variety of illnesses, and become proficient in the treatment of common urologic diseases such as simple and complicated urinary infections, bladder outlet obstruction, overactive bladder, and the initial approach in ureteric stone disease. The relationship between urologic pathology and other diseases, and especially systemic disease, will be stressed. The student will become proficient in placing a Foley catheter, knowing when it is indicated, and learning when a urology consultation is indicated. Controversial topics such as PSA screening, prostate cancer treatment in the older male, and the role of alternative medicine in urology will be discussed. The student will also get a good grasp of what it is like be a urologist in private practice, and enable the student contemplating a career in urology to make a rational choice.

Objectives:
The student will accomplish these goals through close one-on-one interaction with Dr. Gold, with the other members of the Urology Center, and with the many patients. The student will be challenged on a daily basis to learn.

Location:
Urology Center of South Florida, 10151 Enterprise Center Blvd., Suite 201, Boynton Beach, FL 33437 and Bethesda Hospital East and Bethesda Hospital West, Boynton Beach, FL
**Participating Faculty:** Robert G. Gold, M.D.

**Prerequisite:**
Core Internal Medicine and Core Surgery Clerkships

**Expectations:**
The student will be expected to be present for morning hospital rounds, for office hours M-F until 5 pm, and for operative procedures at the Bethesda hospitals in Boynton Beach. The student will not be expected to take call or work on weekends, unless desired. The student will be expected to know some urologic anatomy, physiology, and pathology and to augment that knowledge throughout the rotation through independent study.

**Student Evaluation:**
Will be based on reliability, skills in patient interactions, knowledge, and progress in achieving the goals stated above.

Revised November 2015
EXTERNSHIPS

Below is included information on applying for externships. This information is also available on the MedEd website under Important Documents for students.

Note –
MDR 912 “Externship Placeholder” – This will be used as an Externship Placeholder for scheduling purposes while a student goes through the process of applying.

MDR 815 “Externship” - Once the student has been accepted for an externship, once they present the proper paperwork to the Office of Student Affairs, this Placeholder will be changed to MDR 815 setting apart the specific dates of the externship.

EXTERNSHIP POLICY / PROCEDURE: A maximum of 12 weeks may be spent in elective time away from UMMSM. Externship time in excess of the allowable 12 weeks will be counted for credit but will not count towards fulfillment of the required 14 weeks of Electives, unless a student obtains prior written approval from the Senior Associate Dean for Undergraduate Medical Education. In other words, at least two weeks of Electives must be taken at your home school. Externship experiences must be described in the course catalog of the host institution. No externships with physicians in private practice will be approved.

A rapidly increasing number of schools are now using the Visiting Student Application Service (VSAS) to offer and accept applications for externships. The procedure for applying to programs for both, externships at schools who use VSAS and at schools that do not, are posted on the UMMSM medical education website under the section “Important Administrative Documents for Students” – “Applying for Externships”. Also located there is information on obtaining Immunization records, BLS certification and other required documents needed for your application. You will also find online “Contact Information for Seniors on Externships” form which needs to be filled out and handed in to the Office of Student Affairs prior to your leaving.
INTERNATIONAL STUDY ABROAD

All students going abroad on international programs (ie, medical mission trips and others), regardless if UM or non-UM sponsored/related, must obtain proper approval from the Office of Student Affairs. Required forms can be found on the MedEd website under Important Documents for Students – “Administrative Requirements for International Study”.

MDR 996 “International Study Abroad” – Senior medical students may obtain academic credit for selected international clinical experiences. Only senior students are allowed to receive credit for such experiences. Credit is counted towards their Elective requirements. The above mentioned forms must be filled out. Additional information is also required, including written goals/objectives for the rotation, expectations, student responsibilities, location/institution for the clinical experience, how the student will be evaluated, and the name/contact of physician who will complete the evaluation form. This information needs to be presented in advance to the Senior Associate Dean for Undergraduate Medical Education for approval prior to the trip, preferably far in advance.
REMEDIATION / MAKEUP PLACEHOLDER

MDR 1004 “Remediation / MakeUp Placeholder” – This will be used as Placeholder for scheduling purposes to block out time on the calendar during which a student has been required to remediate or makeup lost time. There will be no credit granted for this time.
EMERGENCY MEDICINE WAIVER

The following lists the guidelines and requirements for requesting a waiver of our 4 week Emergency Medicine Clerkship at JMH.
Guidelines and Requirements for Requesting a Waiver of our 4 week Emergency Medicine Clerkship
- Drs. Larry Zaret and Jennifer Jackson (as of February 2, 2015)

1. This applies ONLY to medical students who are committed to applying to emergency medicine residency programs and committed to a future career in emergency medicine.

2. Since UM does not have an affiliated ACGME emergency medicine residency program, each UM EM applicant must consider their senior schedule in preparation for their residency application. You will need to thoughtfully determine whether to complete our UM EM rotation plus 1 or 2 EM away externships, versus requesting a waiver of the UM EM clerkship and completing 2 EM away externships in preparation for a competitive emergency medicine residency application. It is not recommended that more than 2 four-week EM clerkship externships be done as a senior, but rather that any additional time be spent in EM electives or other specialties to increase the breadth of your clinical knowledge, skills and experience. However, UM allows credit toward graduation for more than 2 EM rotations should the student wish to do so.

3. As emergency medicine becomes an increasingly more popular and competitive specialty, each UM student should discuss their career/residency plans and tentative senior schedule (including externships/electives) with their UM advising dean and myself. Since UM does not have an EM residency program, in addition, it may be useful to request an eAdvisor through the Society for Academic Emergency Medicine (SAEM) (http://www.saem.org/membership/services/e-advising/student-faqs), which pairs medical students from schools without EM residency programs with academic EM faculty volunteers. You are also encouraged to explore online student advising resources on ACEP, EMRA, SAEM, AAEM or AliEM websites.

4. A current list of EM externships and U.S. ACGME EM residency programs is maintained on the SAEM website (www.saem.org) or the ACEP website (www.acep.org).

5. If a student decides to complete 2 four-week EM clerkship externships at an ACGME EM residency program, they must sign and email me (j.jackson@med.miami.edu) the waiver form below to request a waiver of their UM/JMH or UM/HCH EM clerkship. Furthermore, students must notify me about their final externship selections, including rotation dates, to ensure compliance with the EM waiver requirements and ultimately, UMMSM graduation requirements.

6. In addition, to successful completion of 2 four-week EM externships at institutions with an ACGME EM residency programs, current American Heart Association certification in Basic Life Support-Healthcare Providers and Advanced Cardiac Life Support (BLS-HCP and ACLS) will be required prior to graduation in order to fulfill the clerkship waiver requirements. The student is responsible for scheduling and completing a BLS-HCP and ACLS course so that their AHA certification is current as of 5/31/2016. Both classes are available at the UM Gordon Center, at no charge, if their courses have capacity room and can be arrange directly with GCRME via 305-243-6491. (Don’t wait until the last minute as classes frequently fill up early!) If not at the Gordon Center, then the student may have to pay fees to take the courses elsewhere at an AHA-approved training center. The AHA online BLS-HCP and ACLS courses are NOT acceptable substitutes. A “hands-on” ACLS two day class is required (or a “hands-on” one day recertification class if previously certified). For those who previously completed a “hands-on” BLS class, you may recertify by either taking a “hands-on” BLS class again, or doing the AHA online BLS class combined with the BLS Skills Check-Off session at the Gordon Center (schedule the latter directly with GCRME).

7. The student is responsible for ensuring that grades and the final clinical evaluation from the 2 EM rotations are sent to UMMSM, and that a copy of your current BLS/ACLS Certification cards are submitted to me by February 2016.
Guidelines for obtaining academic credit for research are found on the subsequent pages. This information is also available on the MedEd website under Important Documents for students.

**Note –**

**MDR 916 “Research”** – Used to designate credits student has been awarded. Seniors are required to always have on their scheduled an appropriate number of credits required for graduation. Since Research Credits are frequently granted late in the Senior year, students must schedule Electives late in the year that they may drop if and when Research credit is granted.
Guidelines for Obtaining Research Credit or Research Distinction

The Miller School of Medicine encourages all medical students to participate in a research activity during their medical education. Students are eligible to receive Research Credits and to graduate with Research Distinction as a result of their efforts. Students must apply for credits or to graduate with research distinction. The Medical Student Research Committee has the responsibility to review and approve a student’s request for Research Credits and Research Distinction. The following describes the guidelines and the application process for the award of Research Credits and Research Distinction.

Research Credit

1. The student and the mentor must submit a detailed plan of the research project (not to exceed 3 pages). The plan should state the hypothesis, the specific aims, the methods, and the data analyses proposed for the project. It should also outline the student’s role in the project and note that the mentor accepts responsibility for mentoring the student. This plan should be signed by the mentor, co-signed by the student, and approved by the Medical Student Research Committee.
2. The research should be performed at UM or other academic institution approved by the committee.
3. In general, 40 hours of research effort is considered approximately 1 credit hour provided that the appropriate type of research participation has occurred. The award of 4 credit hours is typical. Only in exceptional situations will more than 4 credit hours be awarded. Credit requests of over four credit hours must have the approval of the Senior Associate Dean for Undergraduate Medical Education.
4. A short paper is to be submitted by the student at the end of the project. This paper is authored by the student who did the work and should be between 5 and 15 double spaced pages. The paper needs to discuss the hypothesis of the project, the methods used to research the project, the results of the project and the implications and conclusions of the research project.
5. A letter of support from the mentor is required. The letter should evaluate the student’s work on the project and clearly state the faculty member’s involvement in the project and the amount of time the student committed to the project.
6. The deadline for all research submission is February 1st of the student’s senior year. February 1st is also the deadline for research submission for students in the first three years of medical school. This deadline is firm and requests for research credit submitted after this deadline will not be considered by the committee.
7. M.D – Ph.D students will receive additional research credits only in unusual circumstances. Credits requests by M.D. – Ph.D. students must be approved by the Senior Associate Dean for Medical Education.

Research Distinction

1. The student and the mentor must submit a detailed plan of the research project (not to exceed 3 pages). The plan should state the hypothesis, the specific aims, the methods, and the data analyses proposed for the project. It should also outline the student’s role in the project and note that the faculty member accepts responsibility for mentoring the student. This plan should be signed by the mentor, co-signed by the student, and approved by the research committee.
2. The project must test a hypothesis as the focus of the study. The project may be done in either a basic science or clinical discipline. The student may not simply carry out a survey, data collection, write a paper on collected data for a faculty member, or review other’s opinions.
3. The project should be performed at the University of Miami or other academic institution approved by the committee.
4. A minimum time commitment of at least 4 months of full-time activity is recommended.
5. Annual progress reports must be submitted to the committee by the student.
6. Research results and conclusions should be presented at a meeting such as the Eastern Student Research Forum or other national meeting.
7. A student will write a detailed research paper as the sole author. The paper will be reviewed by the research committee and needs to contain a statement of the hypothesis, specific objectives for the project, data collection, analysis of the data and methods used, interpretation of the results, and the conclusions and implications derived from the research project. Published papers can be submitted as an appendix to the medical student’s paper. The best papers will receive distinction.

8. The final research paper submitted to the committee must be composed of a title page, an abstract, an introduction, a material and methods section, a results section, a discussion section, a bibliography of cited literature section, figure captions, figures and tables that illustrate the collected data and observations of the study.

9. A letter of support for research distinction from the mentor is required. The letter should critically evaluate the student’s work on the project, clearly state the faculty member’s involvement in the project, the mentoring process, and note the time commitment of the student.

10. The deadline for all research submission is February 1st of the student’s senior year. February 1st is also the deadline for research submission for students in the first three years of medical school. This deadline is firm and requests submitted for research distinction after this deadline will not be considered by the committee.

Research Requirements for Research Credit and Research Distinction

<table>
<thead>
<tr>
<th>Requirements for Research</th>
<th>Credit</th>
<th>Distinction</th>
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<tbody>
<tr>
<td>1. Submit a research proposal plan</td>
<td>√</td>
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<tr>
<td>2. Letter of support from mentor/student outlining the student role in the project</td>
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<td>√</td>
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<tr>
<td>3. Time for research</td>
<td></td>
<td>√</td>
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<tr>
<td>4. Location of research</td>
<td>Generally @ UM</td>
<td>Generally @ UM</td>
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<td>5. Progress reports to research committee</td>
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<td>6. Short paper on research to be evaluated by the Research committee</td>
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<tr>
<td>7. Detailed paper of the research to be judged by the research committee</td>
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<tr>
<td>8. Evaluation of student performance from mentor</td>
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<td>9. Letter of support from mentor</td>
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<tr>
<td>10. Research to be presented at ESRF or another national or international research meeting</td>
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ALL DOCUMENTS SHOULD BE SUBMITTED TO THE OFFICE OF MEDICAL CURRICULUM
(Julie Johnson, jjohnson2@med.miami.edu, Tel. 305-243-6180, RMSB #2187)

Revised April 2011