**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.

<table>
<thead>
<tr>
<th>Date Updated</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/20/2014</td>
<td>MDR 836</td>
<td>Infectious Disease Consultation Service</td>
<td>Change in Coordinator</td>
</tr>
<tr>
<td>01/20/2014</td>
<td>MDR 60</td>
<td>Ophthalmology</td>
<td>Change in Date Availability</td>
</tr>
<tr>
<td>01/20/2014</td>
<td>MDR 837</td>
<td>Idea of the Hospital</td>
<td>Placed on Hold</td>
</tr>
<tr>
<td>01/20/2014</td>
<td>MDR 911</td>
<td>Nuclear Medicine</td>
<td>Change in Director</td>
</tr>
<tr>
<td>01/20/2014</td>
<td>MDR 878</td>
<td>Pathology Elective at Mt. Sinai</td>
<td>Change in Date Availability</td>
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<tr>
<td>01/20/2014</td>
<td>MDR 822</td>
<td>Cardiac Care Unit (UMH – CCU)</td>
<td>Change in Coordinator</td>
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<td>01/20/2014</td>
<td>MDR 829</td>
<td>Coronary Care Unit (JMH – CCU)</td>
<td>Change in Director</td>
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<tr>
<td>01/20/2014</td>
<td>MDR 807</td>
<td>Gross Anatomy Elective</td>
<td>Change in Date Availability</td>
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<tr>
<td>01/20/2014</td>
<td>MDR 966</td>
<td>Medical-Legal Partnership</td>
<td>Revised Description PreRequisites waived for Pathway students</td>
</tr>
<tr>
<td>04/04/2013</td>
<td>XXX</td>
<td>Externship and Immunization Policies</td>
<td>Revised</td>
</tr>
<tr>
<td>04/04/2013</td>
<td>MDR 966</td>
<td>Medical-Legal Partnership</td>
<td>Available Dates, Max # of students</td>
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<tr>
<td>04/04/2013</td>
<td>MDR 924</td>
<td>Introduction to Neurosurgery</td>
<td>Note limiting enrollment</td>
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<tr>
<td>04/04/2013</td>
<td>MDR 913</td>
<td>Holy Cross Hospital Cardiology Elective</td>
<td>Available Dates, List of Faculty</td>
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<tr>
<td>04/04/2013</td>
<td>MDR 898</td>
<td>Ophthalmology at Palm Beach Gardens</td>
<td>Re-Open course, New Director</td>
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<td>04/04/2013</td>
<td>MDR 860</td>
<td>Ophthalmology</td>
<td>Revised Description</td>
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<td>04/04/2013</td>
<td>MDR 970</td>
<td>Ophthalmology for the Non-Ophthalmologist</td>
<td>New Course</td>
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<tr>
<td>03/18/2013</td>
<td>N/A</td>
<td>N/A</td>
<td>Initial update for year</td>
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<td>Adult Allergy &amp; Immunology Elective</td>
<td>New Course</td>
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<td>03/18/2013</td>
<td>MDR 908</td>
<td>Radiology @ Mt. Sinai</td>
<td>Change in Description &amp; Director</td>
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<td>03/18/2013</td>
<td>MDR 912</td>
<td>Nuclear Medicine &amp; Ultrasound @ Mt. Sinai</td>
<td>Course deleted - merged into MDR 908</td>
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<td>MDR 912</td>
<td>Externship Placeholder</td>
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<td>03/18/2013</td>
<td>MDR 995</td>
<td>Remediation / MakeUp Placeholder</td>
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<tr>
<td>03/18/2013</td>
<td>MDR 996</td>
<td>International Study Abroad</td>
<td>MDR set for Intl Study</td>
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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. Students are not allowed to receive more than 8 weeks of research credit without expressed written permission from the Office of Student Affairs.

CLINICAL COURSEWORK REQUIREMENTS – MD TRACK – MIAMI CAMPUS:

<table>
<thead>
<tr>
<th>CORE Clerkships (43 weeks)</th>
<th>REQUIRED Clerkships (26 weeks)</th>
</tr>
</thead>
<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>
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<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>
</tr>
<tr>
<td>Psychiatry (6 weeks)</td>
<td>Electives (14 weeks)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CORE Clerkships (48 weeks)</th>
<th>REQUIRED Clerkships (20 weeks)</th>
</tr>
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<tbody>
<tr>
<td>Integrated Internal Medicine (12 weeks)</td>
<td>Advanced Geriatrics (2 weeks)</td>
</tr>
<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>
</tr>
<tr>
<td>Includes Radiology (2 weeks)</td>
<td>Public Health Clerkship (4 weeks)</td>
</tr>
<tr>
<td>Includes Anesthesiology (2 weeks)</td>
<td>Subinternship (4 weeks)</td>
</tr>
<tr>
<td>Family Medicine (6 weeks)</td>
<td></td>
</tr>
<tr>
<td>Obstetrics &amp; Gynecology (6 weeks)</td>
<td></td>
</tr>
<tr>
<td>Pediatrics (6 weeks)</td>
<td>Electives (14 weeks)</td>
</tr>
<tr>
<td>Psychiatry (6 weeks)</td>
<td></td>
</tr>
</tbody>
</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 grades are not required.
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 located at the end of this document and are posted on the UMMSM medical education website under the section “Important Administrative Documents for Students”. Also located there is information on obtaining Immunization records, BLS certification and other required documents needed for your application.

All documents must be submitted to the Executive Assistant at the Office of Student Affairs, Nancy Cuevas, RMSB #2100 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 Executive Assistant 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 students awarded research credit and graduating in May, the deadline for submitting the final research paper 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 notification. If a student does not obtain prior approval for interviews, he/she may receive a failing grade for the course, and a physicianship incident report will be submitted.
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 Coordinator for Student Services 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 notification of the coordinator even if prior to the two week deadline. Refer to the Course Descriptions for which Departments require this. In all cases, students who seek to add or drop a rotation within 2 weeks of the start of the rotation must obtain the written approval of the course coordinator. 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 31 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

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**ACADEMIC CALENDAR**  
*2013-2014*

<table>
<thead>
<tr>
<th>Date and Event</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon. June 24, 2013</td>
<td>Orientation and Registration</td>
</tr>
<tr>
<td>Tue. June 25, 2013</td>
<td>Senior Electives begin</td>
</tr>
<tr>
<td>Wed. November 27 @ 5 p.m. – Sun. Dec 1, 2013</td>
<td>Thanksgiving</td>
</tr>
<tr>
<td>Mon. January 6, 2014</td>
<td>Clinical Rotations Resume</td>
</tr>
<tr>
<td>Wed. February 19, 2014 (tentative)</td>
<td>Rank Order List Input <strong>Deadline</strong></td>
</tr>
<tr>
<td>Fri, March 14, 2014 (tentative)</td>
<td>MATCH DAY</td>
</tr>
<tr>
<td>Mon. May 5 thru Fri. May 9, 2014</td>
<td>Senior Week</td>
</tr>
<tr>
<td>Sat, May 10, 2014 (tentative)</td>
<td>Miller School of Medicine Commencement Ceremony</td>
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_No Guaranteed Holidays – Please check with your clerkship Director/Coordinator_
# Senior Block Schedule 2013-2014

<table>
<thead>
<tr>
<th>Block #</th>
<th>DATES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OSCE</strong></td>
<td><strong>June 8 – June 9</strong></td>
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<tr>
<td>00</td>
<td>June 10 – June 23</td>
</tr>
<tr>
<td>1A</td>
<td>June 24 – July 7</td>
</tr>
<tr>
<td>1B</td>
<td>July 8 – July 21</td>
</tr>
<tr>
<td>2A</td>
<td>July 22 – August 4</td>
</tr>
<tr>
<td>2B</td>
<td>August 5 – August 18</td>
</tr>
<tr>
<td>3A</td>
<td>August 19 – September 1</td>
</tr>
<tr>
<td>3B</td>
<td>September 2 – September 15</td>
</tr>
<tr>
<td>4A</td>
<td>September 16 – September 29</td>
</tr>
<tr>
<td>4B</td>
<td>September 30 – October 13</td>
</tr>
<tr>
<td>5A</td>
<td>October 14 – October 27</td>
</tr>
<tr>
<td>5B</td>
<td>October 28 – November 10</td>
</tr>
<tr>
<td>6A</td>
<td>November 11 – November 24</td>
</tr>
<tr>
<td>*6B</td>
<td>November 25 – December 8</td>
</tr>
<tr>
<td>7A</td>
<td>December 9 – December 20</td>
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<tr>
<td></td>
<td><strong>WINTER BREAK</strong></td>
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<tr>
<td></td>
<td><strong>December 21, 2013- January 5, 2014</strong></td>
</tr>
<tr>
<td>7B</td>
<td>January 6 – January 19</td>
</tr>
<tr>
<td>8A</td>
<td>January 20 – February 2</td>
</tr>
<tr>
<td>8B</td>
<td>February 3 – February 16</td>
</tr>
<tr>
<td>9A</td>
<td>February 17 – March 2</td>
</tr>
<tr>
<td>9B</td>
<td>March 3 – March 16</td>
</tr>
<tr>
<td>AA</td>
<td>March 17 – March 30</td>
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<tr>
<td>AB</td>
<td>March 31 – April 13</td>
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<tr>
<td>BA</td>
<td>April 14 – April 27</td>
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<tr>
<td>BB</td>
<td>April 28 – May 11</td>
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<tr>
<td></td>
<td><strong>Graduation</strong></td>
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<tr>
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<td><strong>May 10, 2012 (tentative)</strong></td>
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<tr>
<td>CA</td>
<td>May 12 – May 25</td>
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<tr>
<td>CB</td>
<td>May 26 – June 8</td>
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*Thanksgiving Holiday – November 28 thru December 1
### COURSE CODES

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>NAME</th>
<th>TYPE</th>
<th>WKS</th>
<th>PREREQUISITES</th>
<th>MAX</th>
<th>LOCATION</th>
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<tr>
<td></td>
<td><strong>Anesthesiology</strong></td>
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<td>MDR 712</td>
<td>Anesthesiology Clerkship</td>
<td>REQ</td>
<td>2</td>
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<td>8-10</td>
<td>JMH</td>
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<td>MDR 809</td>
<td>Anesthesiology Senior Elective</td>
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<td>ANES, SURG, IM</td>
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<td>JMH</td>
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<tr>
<td>MDR 953</td>
<td>Cardiac Anesthesiology / CV &amp; Thoracic ICU</td>
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<td>ANES, SURG, IM</td>
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<td>JMH</td>
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<td>MDR 954</td>
<td>Pediatric Anesthesiology</td>
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<td>2</td>
<td>ANES, IM, PED, SURG</td>
<td>2</td>
<td>JMH</td>
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<tr>
<td></td>
<td><strong>Cell Biology &amp; Anatomy</strong></td>
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<td>MDR 807</td>
<td>Gross Anatomy (Senior Elective)</td>
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<td>RMSB</td>
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<td><strong>Dermatology</strong></td>
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<td>MDR 811</td>
<td>Dermatology</td>
<td>2/4</td>
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<td>ALL CORES</td>
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<td>JMH, VAMC</td>
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<td>MDR 886</td>
<td>Pediatric Dermatology (also listed in Pediatrics)</td>
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<td>JMH</td>
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<td>MDR 806</td>
<td>Wound Healing Elective (also listed in Surgery)</td>
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<td><strong>Emergency Medicine</strong></td>
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<tr>
<td>MDR 812</td>
<td>Emergency Medicine Clerkship</td>
<td>REQ</td>
<td>4</td>
<td>IM</td>
<td>16</td>
<td>JMH, UMH</td>
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<tr>
<td></td>
<td><strong>Family Medicine</strong></td>
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<tr>
<td>MDR 828</td>
<td>Community Preventive Medicine – ON HOLD</td>
<td>2/4</td>
<td></td>
<td>ALL CORES</td>
<td>30</td>
<td>Community</td>
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<td>MDR 816</td>
<td>Family Medicine in the Florida Keys</td>
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<td></td>
<td>FM</td>
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<td>Community</td>
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<td>MDR 817</td>
<td>Family Medicine Preceptorship</td>
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<td>FM</td>
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<td>Community</td>
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<tr>
<td>MDR 819</td>
<td>Ward Family Medicine</td>
<td>A</td>
<td>4</td>
<td>ALL CORES</td>
<td>2</td>
<td>JMH</td>
</tr>
<tr>
<td></td>
<td><strong>Human Genetics</strong></td>
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<td>MDR 890</td>
<td>Genetics and Metabolic Diseases</td>
<td>2/4</td>
<td></td>
<td>None</td>
<td>2</td>
<td>Mailman, JMH, UM clinics</td>
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<td></td>
<td><strong>Medical Education / Interdisciplinary</strong></td>
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<td>MDR 949</td>
<td>Caring for the Community – Free Clinics Elective</td>
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<td>15</td>
<td>SJB / Lotus / UMMSM</td>
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<tr>
<td>MDR 837</td>
<td>The Idea of the Hospital: An Interdisciplinary Inquiry – ON HOLD</td>
<td>2**</td>
<td></td>
<td>None</td>
<td>15</td>
<td>Law School / UMMSM</td>
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<td>MDR 966</td>
<td>Medical-Legal Partnership</td>
<td>2/4</td>
<td></td>
<td>IM / SURG</td>
<td>6</td>
<td>Law School / JMH / VAMC</td>
</tr>
<tr>
<td>MDR 939</td>
<td>Prof. Development for Medical Student Leaders</td>
<td>2**</td>
<td></td>
<td>(see Elective description)</td>
<td>50</td>
<td>RMSB</td>
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<tr>
<td></td>
<td><strong>Medicine</strong></td>
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</tr>
<tr>
<td>MDR 994</td>
<td>Adult Allergy &amp; Immunology Elective</td>
<td>2/4</td>
<td></td>
<td>IM</td>
<td>1</td>
<td>CRB</td>
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<td>MDR 820</td>
<td>Ambulatory Internal Medicine</td>
<td>2/4</td>
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<td>MDR 821</td>
<td>Arthritis</td>
<td>2/4</td>
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<td>Cardiac Catheterization Laboratory (UMH)</td>
<td></td>
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<td>Cardiology Consult (JMH or VAMC)</td>
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<tr>
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<td>JFK Cardiology Consult Elective</td>
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<td>ALL CORES</td>
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<td>HCH Cardiology Elective</td>
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<td>Cardiology Teaching Lab—Harvey 4 week</td>
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<td>Cardiology Teaching Lab—Harvey 2 week</td>
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<td>Endocrinology, Diabetes &amp; Metabolism</td>
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<td>Geriatrics (Clinical)</td>
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<td>Advanced Geriatrics: Miami Jewish Home</td>
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<td>Multidisciplinary Hematology &amp; Oncology @ Deerfield Beach</td>
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<td>Infectious Disease Consult Service at Mt. Sinai Medical Center</td>
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<td>Infectious Disease Consultation Service</td>
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<td>Latin American Externship Elective</td>
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<td>MDR 956</td>
<td>Procedure Team Medical Student Elective</td>
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<td>MDR 845</td>
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</table>

### Neurological Surgery

| MDR 924 | Introduction to Neurosurgery | 2 | IM, SURG (Neurology) | 4 | JMH, UMH |
| MDR 852 | Neurosurgery | B | 4 | ALL CORES (Neurology) | 4 | JMH |

### Neurology

| MDR 707 | Neurology Clerkship | REQ | 4 | None | 16 | JMH, UMH |
| MDR 848 | Brain Injury Neurorehab | 2/4 | NEU | 2 | JMH |
| MDR 849 | Neurology Consultation | 2/4 | NEU | 2 | JMH, VAMC |
| MDR 850 | Inpatient General Neurology and Clinics | 2/4 | NEU | 2 | JMH, VAMC |
| MDR 851 | Stroke Neurology | 2/4 | NEU | 2 | JMH |

### Obstetrics & Gynecology
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<th>Additional Notes</th>
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<td>Maternal Fetal Medicine</td>
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<td>4</td>
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<td>1 UMH</td>
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<td>MDR 800</td>
<td>Ultrasound in Gynecology and Obstetrics</td>
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<td>OBG</td>
<td>1 JMH, PAC, Kendall</td>
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<tr>
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<td>UroGynecology Sub-internship (also listed in Urology)</td>
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<td>4</td>
<td>ALL CORES</td>
<td>1 JMH, UMH</td>
</tr>
</tbody>
</table>

**Ophthalmology**

| MDR 860  | Ophthalmology                                       |      | 2/4    | None              | 8 BPEI                              |
| MDR 970  | Ophthalmology for the Non-Ophthalmologist           |      | 2      | ALL CORES         | 3 BPEI                              |
| MDR 802  | Ophthalmology @ Naples                              |      | 2      | None              | 2 BPEI@Naples                       |
| MDR 898  | Ophthalmology @ Palm Beach Gardens                  |      | 2      | None, Email       | 1 BPEI@PBG                          |
| MDR 861  | Ophthalmology @ VAMC                                |      | 2/4    | None, Email       | 1 VAMC                              |

**Orthopedics**

| MDR 862  | Adult Orthopedic Trauma Elective                    |      | 2      | 6 months of core clerkships incl SURG | 1-2 JMH                             |
| MDR 863  | Adult Orthopedic Trauma                             | B    | 4      | ALL CORES         | 1-2 JMH                             |
| MDR 866  | Hand Surgery                                        |      | 2      | 6 months of core clerkships incl SURG | 2 JMH                               |
| MDR 867  | Musculoskeletal Oncology Service                    |      | 2      | ALL CORES         | 1 UMH, JMH                          |
| MDR 870  | Spine Service                                       |      | 2      | 6 months of core clerkships incl SURG | 2 JMH                               |
| MDR 864  | Sports Medicine Elective                            |      | 2      | 6 months of core clerkships incl SURG | 1 UMH, JMH                          |

**Otolaryngology**

| MDR 871  | Otology                                             |      | 4      | Otolaryngology    | 1 UM/JMH/ABLEH                      |
| MDR 873  | Otolaryngology                                      |      | 2      | None              | 2 JMH                               |
| MDR 875  | Otolaryngology (Subinternship)                      | B    | 4      | ALL CORES         | 2 JMH                               |

**Pathology**

| MDR 878  | Pathology Elective @ Mt. Sinai                      |      | 2/4    | None              | 2 MSMC                              |
| MDR 879  | Pathology                                           |      | 2/4    | None              | 2 JMH                               |

**Pediatrics**

| MDR 880  | Adolescent Medicine                                |      | 2/4    | PED               | 2 JMH                               |
| MDR 881  | Child Protection Team                               |      | 2/4    | None (Peds)       | 2 UM-CPT, Community                 |
| MDR 883  | Neonatology                                         |      | 2/4    | PED               | 2 JMH                               |
| MDR 885  | Pediatric Cardiology                                |      | 2      | PED               | 1 JMH                               |
| MDR 886  | Pediatric Dermatology (also listed in Dermatology)  |      | 2/4    | None              | 1 JMH                               |
| MDR 887  | Pediatric Emergency Room                            |      | 2/4    | PED               | 1 JMH                               |
| MDR 888 | Pediatric Endocrinology | 4 | ALL CORES | 1 | JMH, Mailman |
| MDR 889 | Pediatric Gastroenterology, Hepatology, & Nutrition | 2/4 | PED | 1 | JMH |
| MDR 891 | Pediatric Infectious Diseases & Immunology | 4 | None (Peds) | 1 | JMH/UMHC |
| MDR 892 | Pediatric Intensive Care | A | ALL CORES | 2 | JMH |
| MDR 894 | Pediatric Nephrology | 4 | PED | 2 | JMH |
| MDR 895 | Pediatric Pulmonary Service | 2/4 | None | 2 | JMH, UM |
| MDR 896 | Poison Center/Toxicology Elective | 2/4 | None | 3 | JMH |
| MDR 897 | Ward Pediatrics @ JMH | A | ALL CORES | 2 | JMH |
| **Physical Medicine & Rehabilitation** | | | | | |
| MDR 900 | Physical Medicine and Rehabilitation | 2/4 | IM, SURG | 2 | JMH, UMHC |
| **Psychiatry** | | | | | |
| MDR 907 | Medical Psychiatry Unit @ UMH (also listed in Medicine) | IP-M | 2/4 | PSY, MED | 1 | UMHC |
| MDR 854 | Military Related Mental Health & Gen Psych @ VA | 2/4 | PSY | 1 | VAMC |
| MDR 901 | Psychiatry (Child & Adolescent) | 2/4 | PSY | 1 | JMH |
| MDR 902 | Psychiatry (Consultation-Liaison Service) | 2/4 | PSY | 1 | JMH |
| MDR 903 | Psychiatry (Geriatric) | 2/4 | PSY | 1 | JMH |
| MDR 904 | Psychiatry (In-Patient Clerkship-JMH) | 2/4 | PSY | 2 | JMH |
| MDR 905 | Psychiatry Emergency Service (Crisis Intervention) | 2 | PSY | 2 | JMH |
| MDR 906 | Psychiatry (Ambulatory Special Elective) | 2 | PSY | 1 | JMH |
| MDR 968 | South County Mental Health Clinic Elective | 2/4 | ALL CORES | 1 | South County MH Clinic |
| **Radiology & Nuclear Medicine** | | | | | |
| MDR 969 | Interventional Radiology Elective | 4 | OBG or SURG (Radiology I) | 2 | JMH, UMHC |
| MDR 911 | Nuclear Medicine | 2 | None | 2 | JMH |
| MDR 914 | Pediatric Radiology (JMH) | 2 | RADIOLOGY I | 1 | JMH |
| MDR 909 | Radiology I | REQ | None | 20 | JMH |
| MDR 910 | Radiology II | 2 | RADIOLOGY I | 4 | JMH |
| MDR 908 | Radiology @ Mt. Sinai | 2/4 | ALL CORES | 2 | MSMC |
| **Radiation Oncology** | | | | | |
| MDR 915 | Radiation Oncology | 4 | None | 2 | JMH, SCCC |
| **Surgery** | | | | | |
| MDR 917 | Burn Unit | B | ALL CORES | 2 | JMH |
| MDR 919 | Cardiothoracic Surgery | B | ALL CORES | 2 | JMH, VAMC |
| MDR 941 | HCH Cardiothoracic Surgery | B | ALL CORES | 1 | HCH |
| MDR 920 | General Surgery EI | B | ALL CORES | 2 | JMH, SCCC |
| MDR 921 | General Surgery EIi | B | ALL CORES | 2 | JMH, SCCC |
| MDR 922 | General Surgery EIii | B | ALL CORES | 2 | JMH, SCCC |
| MDR 943 | General Surgery EIv | B | ALL CORES | 2 | JMH, SCCC |
| MDR 944 | General Surgery (VAMC) | B | ALL CORES | 2 | VAMC |
| MDR 933 | JFK General Surgery Elective | 2/4 | ALL CORES | 1 | JFK, Bethesda |
| MDR 948 | JFK Medical Center Surgery Sub-Internship | B | ALL CORES | 1 | JFK |
| MDR 926 | Oral and Maxillofacial Surgery | 2/4 | None | 2 | JMH, UM |
| MDR 927 | Pediatric Surgery | B | ALL CORES | 2 | JMH |
### Plastic Surgery
- MDR 928
- Type: Required Clerkship
- Block Length: 4 weeks
- Core: IM, SURG
- Faculty: JMH, UMH

### Surgical Intensive Care Unit (SICU)
- MDR 929
- Type: Required Clerkship
- Block Length: 4 weeks
- Core: IM, SURG
- Faculty: JMH

### Taylor Breast Health Center
- MDR 945
- Type: Required Clerkship
- Block Length: 2/4 weeks
- Core: IM, SURG
- Faculty: JMH

### Transplant Surgery
- MDR 930
- Type: Required Clerkship
- Block Length: 4 weeks
- Core: IM, SURG
- Faculty: JMH

### Trauma Elective
- MDR 931
- Type: Required Clerkship
- Block Length: 4 weeks
- Core: IM, SURG
- Faculty: JMH

### Trauma Intensive Care Unit (TICU)
- MDR 932
- Type: Required Clerkship
- Block Length: 4 weeks
- Core: IM, SURG
- Faculty: JMH

### Vascular Surgery
- MDR 960
- Type: Required Clerkship
- Block Length: 4 weeks
- Core: IM, SURG
- Faculty: JMH, UMH, VAMC

### Wound Healing Elective (also listed in Dermatology)
- MDR 806
- Type: Required Clerkship
- Block Length: 2/4 weeks
- Core: None
- Faculty: UMH, JMH

### Urology

#### Urology (Female)
- MDR 934
- Type: Required Clerkship
- Block Length: 2/4 weeks
- Core: IM, SURG
- Faculty: UM, JMH

#### Urology (Out-Patient)
- MDR 935
- Type: Required Clerkship
- Block Length: 2/4 weeks
- Core: IM, SURG
- Faculty: JMH, UM

#### Urology
- MDR 937
- Type: Required Clerkship
- Block Length: B
- Core: ALL CORES
- Faculty: JMH, VAMC, UMH

#### Urology (Elective)
- MDR 938
- Type: Required Clerkship
- Block Length: 2/4 weeks
- Core: IM, SURG
- Faculty: JMH, UMH, UM

#### UroGynecology Sub-internship (also listed in OBGYN)
- MDR 955
- Type: Required Clerkship
- Block Length: B
- Core: ALL CORES
- Faculty: JMH, UMH

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

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** - does not fall into the usual two week block on the calendar (see description)
### Sub-internships in Medicine – Type A

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<td>859</td>
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<td>Ward Pediatrics @ JMH</td>
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### Sub-internships in Surgery – Type B

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<td>863</td>
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14
ANESTHESIOLOGY

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

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<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>Victor Chacon (<a href="mailto:vchacon@med.miami.edu">vchacon@med.miami.edu</a>)</td>
</tr>
<tr>
<td></td>
<td>Ryder Trauma Center Room T-215</td>
</tr>
<tr>
<td></td>
<td>Phone : Same as above</td>
</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 (except Blocks 1AB, 2AB, and CA)</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 ALL Anesthesiology rotations, must be authorized by Victor Chacon (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 straightforward 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

**Location:**  
**Percentage of Student Time Spent at each setting:**
- Ryder Trauma Center OR’s 25%
- Jackson Memorial Hospital (JMH) OR’s 25%
- UMH (Univ. of Miami Hospital) 25%
- Ryder Trauma Center T-121 (Lectures) 25%

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

I) Attendance (2 components: Lecture & Clinical)  
II) Evaluation from faculty and residents with whom the student has worked.  
III) The final exam

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 vchacon@med.miami.edu.

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

Revised January 2013
ANESTHESIOLOGY SENIOR ELECTIVE

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<th>COURSE CODE:</th>
<th>MDR 809</th>
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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christian Diez, MD, MBA</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-1191 / FAX 305-545-6195</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>Victor Chacon (<a href="mailto:vchacon@med.miami.edu">vchacon@med.miami.edu</a>)</td>
</tr>
<tr>
<td></td>
<td>Ryder Trauma Center Room T-215</td>
</tr>
<tr>
<td></td>
<td>Phone: Same as above</td>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
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<td>PREREQUISITE:</td>
<td>Anesthesiology Clerkship, Surgery &amp; Internal Medicine</td>
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<td>INTERVIEWING TIME:</td>
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</table>

**NOTE:** ANY schedule changes involving ALL Anesthesiology rotations, must be authorized by Victor Chacon (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, the pain clinic, 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.

A weekly symposium on topics of interest will be conducted for the senior students.

**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:**
Percentage of Student Time Spent at each setting:

- Ryder Trauma Center OR’s: 25%
- Ryder Trauma Center TICU: 25%
- Jackson Memorial Hospital (JMH) OR’s: 25%
- OB Holtz Children Center 4th Floor: 25%

**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 vchacon@med.miami.edu

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

Reviewed January 2013
CARDIAC ANESTHESIOLOGY/CARDIOVASCULAR & THORACIC ICU

COURSE CODE: MDR 953
CLERKSHIP DIRECTOR: Christian Diez, MD, MBA
TELEPHONE/FAX: 305-585-1191
EMAIL: CDiez@med.miami.edu
CONTACT: Victor Chacon
vchacon@med.miami.edu
Ryder Trauma Center T-215
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Anesthesiology, Surgery and Internal Medicine
NUMBER OF STUDENTS: 2
AVAILABLE: All year (except Blocks 1AB, 2AB, CA)
U.S VISITING STUDENTS: None
INTERVIEWING TIME: Yes – 2 days with MANDATORY PRIOR approval
None allowed during Block 6B (Thanksgiving)
TYPE: Clinical

NOTE: ANY schedule changes involving ALL Anesthesiology rotations, must be authorized by Victor Chacon (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 anesthesiology fellows or attendings.
  - Core Topics/Learning Seminars:
    1. Pre-Op Evaluation of CT patient (OR)
    2. General Cardio-pulmonary Physiology (OR/ICU)
    3. Hemodynamics (OR/ICU)
    4. Cardio-pulmonary Bypass (OR)
5. Invasive Monitoring/TEE (OR/ICU)
6. Ventilation (OR/ICU)
7. General Support of patient in the ICU (Fluids/Hemodynamics/Electrolytes/Nutrition/etc.)
   o Pharmacology (w/ focus on intra-op cardiac pharmacology) (OR)
   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.
- During the OR portion of the course, 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.
- During the ICU portion of the course, the student will make rounds each day, perform evaluations of postoperative patients, and help in their management. Students will be expected to present at daily rounds.

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, and the post-surgical CT-ICU (XX%).
- Students may also be assigned to cases in the VAMC operating rooms and SICU (XX%).

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 vchacon@med.miami.edu.

Revised January 2013
PEDIATRIC ANESTHESIOLOGY

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<th>COURSE CODE:</th>
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</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> / <a href="mailto:vchacon@med.miami.edu">vchacon@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Victor Chacon 305-585-1191  Ryder Trauma Center T-215</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
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<td>PREREQUISITE:</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
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**NOTE:** ANY schedule changes involving ALL Anesthesiology rotations, must be authorized by Victor Chacon (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. 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 305.
  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) (XX%)
  - Pre-operative holding area (PACU) (XX%)
  - Bascom Palmer Eye Institute Operating Rooms 6th floor (XX%).
  - Students may also spend time in the radiology and radiation oncology wings if anesthetic care is required in those settings (XX%).
  - Pediatric Intensive Care Unit (XX%)

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.
  - 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 vchacon@med.miami.edu.

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

Reviewed March 2013
CELL BIOLOGY AND ANATOMY
GROSS ANATOMY (Senior Elective)

<table>
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<th>COURSE CODE:</th>
<th>MDR 807</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Thomas Champney, PhD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6942</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:tchampney@med.miami.edu">tchampney@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>RMSB, 4th floor, #4099</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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</tr>
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<td>PREREQUISITE:</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>August – January (Blocks 2B-7B); April – May (Blocks BA-CA)</td>
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<tr>
<td>U.S.VISITING STUDENTS:</td>
<td>Yes, only one per session if space available</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day per week with prior approval</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Basic / Clinical</td>
</tr>
</tbody>
</table>

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. Thomas Champney 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 May 2013
DERMATOLOGY
DERMATOLOGY

COURSE CODE: MDR 811
CLERKSHIP DIRECTOR: George Elgart
TELEPHONE: 305-689-7067
EMAIL: LCalero@med.miami.edu
CONTACT: Lourdes Herrero (Calero); 305-243-6284 or 305-243-4472
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: Must have completed core clerkships
NUMBER OF STUDENTS: 6
AVAILABLE: Starts August 5th, 2013 (Block 2B) and all remaining blocks
U.S. VISITING STUDENTS: XXX
INTERVIEWING TIME: Yes – 1 day per week with prior notification
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.

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.

Revised January 2013
# PEDIATRIC DERMATOLOGY
(Listed under both Dermatology and Pediatrics)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 886</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Jan Izakovic, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-689-7067</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:LCalero@med.miami.edu">LCalero@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Lourdes Herrero (Calero); 305-243-6284 or 305-243-4472</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2-4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>Starts August 5th (Block 2B) and all remaining blocks</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>XXX</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes - 1 day per week with prior notification</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical / Research</td>
</tr>
</tbody>
</table>

**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

**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 2013
WOUND HEALING ELECTIVE
(Listed under both Dermatology and Surgery)

COURSE CODE: MDR 806
CLERKSHIP DIRECTOR: Christopher J. Salgado, MD (Director) christophersalgado@med.miami.edu
Robert S Kirsner MD, PhD (Co-Director)
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB, 4th floor, M-875]
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: XXX
INTERVIEWING TIME: 1 days in 2 week or 2 days in 4 week rotation
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:
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, Jackson Memorial Hospital Operating Room
**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 2013
EMERGENCY MEDICINE
# EMERGENCY MEDICINE CLERKSHIP (Required)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 812</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Larry Zaret, DO / Kathleen Schrank, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>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:kschransk@med.miami.edu">kschransk@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>16</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, Sim Lab, and the final Friday – Case Presentation and Final Exam.</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 component and will include 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:

- shifts in all emergency areas (ER-A, ER-B, ER-C, F, Pediatrics, University of Miami Hospital Center)
- 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 with grades)
- written 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 two 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 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 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 ACLS class as scheduled, the student is responsible for scheduling and paying 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. Completion of ACLS certification is a UM requirement for graduation.

Orientation: MANDATORY SESSION.
At least one week prior to the start of your rotation, the 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.
- Simulation Lab – every Thursday from 1:00 p.m. to 5:00 p.m. Practicum on the 1st and 2nd Thursday; examination on the 3rd and 4th Thursday (each student attends two Sim Lab sessions – 1st & 3rd Thursdays or 2nd & 4th Thursdays)
- Student Case Presentations to EM Faculty Members – last Friday of the rotation.
- 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, 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 Director. A final examination (multiple choice questions) 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 the 4th Sunday of the rotation.

Prerequisite:
Internal Medicine

Location: JMH (75%), UMH (25%),
Note – There is an option to do shifts at Holy Cross Hospital. If interested, please discuss with the clerkship coordinator/director.
EMERGENCY MEDICINE ORIENTATION DATES
2013/2014

Orientation Dates for the 2012/2013 school year are as follows:

<table>
<thead>
<tr>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, June 25, 2013</td>
</tr>
<tr>
<td>Monday, July 22, 2013</td>
</tr>
<tr>
<td>Monday August 19, 2013</td>
</tr>
<tr>
<td>Monday, September 16, 2013</td>
</tr>
<tr>
<td>Tuesday, October 15, 2013</td>
</tr>
<tr>
<td>Tuesday, November 12, 2013</td>
</tr>
<tr>
<td>Monday, December 9, 2013</td>
</tr>
<tr>
<td>Tuesday, January 21, 2014</td>
</tr>
<tr>
<td>Tuesday, February 18, 2014</td>
</tr>
<tr>
<td>Monday, March 17, 2014</td>
</tr>
<tr>
<td>Monday, April 14, 2014</td>
</tr>
<tr>
<td>Monday, May 12, 2014</td>
</tr>
</tbody>
</table>

Set dates for ACLS and Sim Labs are available far in advance. Please communicate with clerkship coordinator for these dates.
FAMILY MEDICINE

NOTE: ANY schedule changes involving ALL Family Medicine rotations, must be authorized by Andrea Santo 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>Michel Dodard, 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>
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<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>INTERVIEWING TIME:</td>
<td>Yes 3-5 days on 4 wks rotation with permission</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</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.

Revised September 2013
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:asanto@med.miami.edu">asanto@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Andrea Santo (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>
<tr>
<td>AVAILABLE:</td>
<td>Please contact coordinator for availability</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>None</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes (3 days max-strictly enforced), due to travel distance to Miami, we recommend arrangements be made from Marathon or Key West Airport.</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

NOTE: Students may only enroll in this elective with prior authorization from Andrea Santo.

NOTE: As of June 2011, housing is no longer routinely available. Please communicate with Andrea Santo 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 Andrea Santo (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. (As of June 2011, housing is no longer routinely available. Please contact Andrea Santo to see if housing is available.)

Prerequisite:
Family Medicine Clerkship

Reviewed January 2013
**FAMILY MEDICINE PRECEPTORSHIP**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 817</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:asanto@med.miami.edu">asanto@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Andrea Santo (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>
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<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes - 2 days</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</table>

**NOTE:** Students may only enroll in this elective with prior authorization from Andrea Santo.

**NOTE:** ANY schedule changes involving ALL Family Medicine rotations must be authorized by Andrea Santo (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 2013
WARD FAMILY MEDICINE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 819</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:asanto@med.miami.edu">asanto@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Andrea Santo (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>
</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>Yes – 2 days</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

**NOTE:** ANY schedule changes involving ALL Family Medicine rotations must be authorized by Andrea Santo (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 2013
HUMAN GENETICS
GENETICS AND METABOLIC DISEASES

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 890</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Stephanie Sacharow, MD / Mustafa Tekin, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-7985</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ssacharow@med.miami.edu">ssacharow@med.miami.edu</a>, <a href="mailto:mtekin@med.miami.edu">mtekin@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Michele Rowand (305-243-6056), <a href="mailto:MRowand@med.miami.edu">MRowand@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</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, on a case-by-case basis</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes - 2 days</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical, with exposure to Genetics laboratories</td>
</tr>
</tbody>
</table>

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, Genodermatosis 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 (80%), UM clinics (10%), JMH clinics (5%), and in-patients (5% - 95% at JMH).

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, cytogenetic, 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 January 2013
MEDICAL EDUCATION / INTERDISCIPLINARY
CARING FOR THE COMMUNITY – FREE CLINICS ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 949</th>
</tr>
</thead>
</table>
| CLERKSHIP DIRECTOR:| Mark O'Connell, MD (Co-Director)  
Erin Kobetz, PhD (Co-Director) |
| TELEPHONE:         | Dr. O'Connell - phone: 305-243-6737  
Dr. Kobetz – phone: 305-243-6185 |
| EMAIL:             | moconnell@miami.edu / ekobetz@med.miami.edu |
| CONTACT:           | Raysa Christodoulou (RChristodoulou@med.miami.edu) |
| LENGTH OF ELECTIVE:| 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.** |
| PREREQUISITE:      | None                   |
| NUMBER OF STUDENTS:| 15 - preference given to students in the J. Weiss Social Medicine Pathway |
| AVAILABLE:         | Continuous during years 3 and 4 (All blocks) |
| INTERVIEWING TIME: | Not applicable          |
| TYPE:              | Clinical               |

**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 8 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. Four of these didactic sessions comprise the “core curriculum” and must be attended in order to receive a final passing grade. The “core curriculum” will include sessions intended to develop and improve the teaching and leadership skills of the elective students.

Didactic Core Curriculum
- Teaching in the clinical setting
- Basic physical examination skills
- Presenting the HPI and documenting the encounter
- Giving effective feedback

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
  3220 NW 7th Ave
  Miami, FL 33127
- **Lotus Wellness Center** (Monday evenings)
  Lotus House
  217 NW 15th Street
  Miami, Florida 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 who volunteer their time at these evening sessions. The majority of faculty are fulltime regular. There are also 2-3 community physicians with active voluntary faculty appointments who occasionally attend the clinic.

Core didactic sessions will be conducted by Dr. O’Connell and the Educational Development Office. 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 8 didactic sessions, four of them from the core curriculum addressing teaching and mentoring skills.

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 January 2013
THE IDEA OF THE HOSPITAL: 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 – PRESENTLY ON HOLD</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>TBA</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>7 Saturday seminar sessions (Required to attend at least a total of 5 sessions; including the first and last modules of the course) (counts as a 2 week elective)</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>15 (additional students possible depending on student registration from other Schools/Colleges)</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>Saturdays Spring 2014 – Dates Not Yet Available</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>No</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>N/A</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Seminar course</td>
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</tbody>
</table>

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.

NOTE – DATES FOR ACADEMIC YEAR 2014-2015 ARE NOT YET AVAILABLE
Below are listed the dates for 2013 to be used as a tentative guide

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

Dates for AY 2012-2013: (all sessions occur from 9am-4pm)
1. February 2, 2013 *required attendance for all students
2. February 9, 2013
3. February 23, 2013
4. March 2, 2013
5. March 23, 2013
7. April 13, 2013 *required attendance for all students
**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. Rank modules at: https://sites.google.com/a/g.law.miami.edu/interdisciplinary-course/**

Prior seminar modules from 2013 include:
1. What is Driving U.S. Health Care Spending?
2. Patient Safety and Hospital/ Health Care Design and Community
3. Community Access to the Hospital: Engaging Communities to Ensure Equitable Access and An Exploration of the Role of Nursing in the Age of Health Care Reform
4. Quality: Improving Stakeholder Experience in Hospitals and Accountable Care Organizations & Electronic Medical Records
5. Entrepreurism for Health Care Leaders: Issues and Possibilities and Law and Ethics in the Hospital
6. Hospital Financing: Incentive Models and Management and Medical-Legal Partnerships

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.

Participating Faculty from 2013 (organized by date of presentations)
President Donna Shalala
Dr. David Lubarsky
Dr. David Birnbach (Miller School of Medicine)
Professor Joanna Lombard (School of Architecture)
Dr. Julie Kornfeld and Dr. Erin Kobetz (MSOM, Dept. of Epidemiology and Public Health)
Dr. JoAnn Trybulski and Dr. Todd Ambrosia (School of Nursing and Health Studies)
Professor Vincent Omachonu (College of Engineering)
Dr. Laurence Gardner (Miller School of Medicine)
Dr. Michael Vigoda (Miller School of Medicine)
Dr. Jack Lord
Professor Mary Coombs (School of Law)
Professor Ken Goodman (UM Ethics Programs)
Dr. Steven Ullmann (School of Business Administration)
Professor JoNel Newman (School of Law, Health and Elder Law Clinic)
Professor Melissa Swain (School of Law, Health and Elder Law Clinic)
Professor Patrick Gudridge (School of Law)

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 September 2013
MEDICAL-LEGAL PARTNERSHIP

| COURSE CODE: | MDR 966 |
| CLERKSHIP DIRECTOR: | Pat Caralis (p.caralis@med.miami.edu)  
JoNel Newman (jnewman@law.miami.edu)  
Melissa Swain (mswain@law.miami.edu)  
Ed Olsen (EOlsen@med.miami.edu) |
| TELEPHONE: | 305-575-3160 or 305-284-4125 |
| EMAIL: | see above |
| CONTACT: | Pat Caralis or JoNel Newman |
| LENGTH OF ELECTIVE: | 2/4 weeks (preferably 4 wks) |
| PREREQUISITE: | Internal Medicine and Surgery Clerkships  
For Health Law Pathway Students, PreRequisites may be waived |
| NUMBER OF STUDENTS: | 3 |
| AVAILABLE: | BLOCKS 00, 1A, 1B, 3A-6A, 8A, 8B, 9A, AA, AB, and BA |
| U.S. VISITING STUDENTS: | XXX |
| 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 and law will be partnered to focus on basic legal issues in the context of medical care. They will have the opportunity to work in this unique clinic which focuses not only on medical care of actual patients but on 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 Partnership clinic has several sites of practice: Miami Veterans Administration Medical Center (Medical and Psychiatric clinics), Jackson Memorial Hospital Special Immunology clinics and Jefferson Reeves Ambulatory clinics. Students will learn about the complex intersection of poverty, health and law, 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. They will explore practical remedies and innovations both within and outside of the health care system.

Course Design:
Medical and law students will be partnered as a team in the medical clinics alongside Medical Residents and Attendings seeing patients in the clinic. Each team will evaluate patients from the perspective of their individual discipline and formulate a comprehensive management plan for their patients. Each team at each of the sites is supervised by both a Medical Attending and Law Professor at the bedside. Medical Students will rotate through each of the clinics, which are held on different days. The different clinical sites assure that the 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. They will attend weekly interdisciplinary lectures that are offered once or twice a week on the law school or medical campus on the intersection of medicine and law such as: capacity and guardianship, end-of-life care planning, Medicare and Medicaid entitlements, insurance
advocacy, disability assessments and Social Security, Confidentiality and HIIPPA. 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 attend an academic half day skills session which will be provided for in depth leaning and practice of skills to include expert witness and deposition techniques, where they will act as the physicians.

Additionally, each team 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.

### Schedule Template

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 Supervision</td>
<td>JMH Special Imm</td>
<td>VA Clinic Hours</td>
<td>Jefferson Reaves</td>
<td>Case Work in</td>
</tr>
<tr>
<td>10:00 Meetings with Clinic Hours*</td>
<td>(9:00-12:00)</td>
<td>Clinic Hours*</td>
<td>(9:00-12:00)</td>
<td>Law Office/Courts/</td>
</tr>
<tr>
<td>11:00 Faculty</td>
<td>(9:00-12:00)</td>
<td>(9:00-12:00)</td>
<td>Administrative</td>
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</tr>
<tr>
<td>12:00</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>1:00 Case Work in Clinical Follow Up</td>
<td>Seminar</td>
<td>Clinical Follow Up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00 Law Office/Courts/</td>
<td>(1:30-4:00)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3:00 Administrative</td>
<td></td>
<td></td>
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<tr>
<td>4:00 Agencies</td>
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<tr>
<td>5:00</td>
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</tbody>
</table>

*Dates and times subject to confirmation and possible change.

**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

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, academic half day)
2. Assigned Team presentation

Revised March 2013
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

INTERVIEWING TIME: Yes

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 2013
MEDICINE
ADULT ALLERGY & IMMUNOLOGY ELECTIVE

COURSE CODE: MDR 994  
CLERKSHIP DIRECTOR: Viviana Temino MD & Lauren Fine MD  
TELEPHONE: 305-243-7888  
EMAIL: VTemino@med.miami.edu and LFine@med.miami.edu  
CONTACT: Dr. Temino and/or Dr. Fine  
LENGTH OF ELECTIVE: 2 wks or 4 wks  
PREREQUISITE: Internal Medicine Core Clerkship  
NUMBER OF STUDENTS: 1  
AVAILABLE: All year  
U.S. VISITING STUDENTS: Yes  
INTERVIEWING TIME: 2 days (2wks) or 4 days (4wks) with prior approval  
TYPE: Clinical

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 clinic at CRB, 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:**
Clinical Research Building, 5th Floor. (XX%)
Inpatient consults at UMH (XX%), UMHC (XX%), and JMH (XX%).

**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.

Created March 5, 2013
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. Conferences: Conferences generally run from 8 to 9am in ACC West 302. The content and exact dates vary so, you should refer to the schedule provided. Common topics include issues in ambulatory medicine and preoperative evaluation in the ambulatory setting among others. In addition, students are invited to attend the Academic ½ day on Wednesday afternoons held at the VAMC.

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).

4. Session specifics: Fourth year students will initially work with the residents seeing patients. Once they feel comfortable in the clinic system, they will be seeing patients independently. All patients must be presented to the supervising attending and the attending will see the patient.
   a. MAC:
      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.
      ii. 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.
iii. **Walk-ins:** Patients with acute medical complaints. Visit should be focused on the presenting complaint. Patients should be referred to their primary care physician for follow-up based on their assigned clinic (refer to zip code list).

iv. **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. Follow-up of these patients should be at their assigned primary care site as dictated by their zip code.

v. **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.

vi. **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).

5. **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.**

6. **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
      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
      v. The website of the Henry J Kaiser Family Foundation – offers a wealth of reports on health policy topics: http://www.kff.org/

<table>
<thead>
<tr>
<th>Educational Purpose:</th>
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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 generic proficiencies including interviewing skills, comprehensive and focused physical examination based on clinical presentation.
- **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:
  o Demonstrate motivation for self-learning, demonstrating a desire for self-improvement
  o 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:
  o Assessment of patient compliance to the ambulatory regimen and modification of prescribing practices accordingly.
  o An ability to learn from prior mistakes and apply this knowledge to improve one’s practice
  o 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:
  o Demonstrate knowledge of the Public Health Trust system and its resources to ensure optimal patient care
  o Demonstrate a general familiarity with ways of helping low income patients obtain needed health care
  o Foster awareness of and responsiveness to the contexts and systems of health care in our community
  o Apply systematic and cost-effective strategies to prevention, diagnosis, and treatment in a manner that does not compromise quality of care.

### 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.

### Sample Ambulatory Block Rotation Schedule

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>MED AMB (3B)</td>
<td>MED AMB (3B)</td>
<td>MED AMB (3B)</td>
<td>WCC (3B)</td>
<td>MED AMB (3B)</td>
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<tr>
<td>ER walk-in</td>
<td>ER walk-in</td>
<td><strong>Academic ½ day or ER walk-in</strong></td>
<td>ER walk-in</td>
<td>ER walk-in OP (3B)</td>
</tr>
</tbody>
</table>

Conferences are held in the morning from 8 to 9 am in ACC West 302. Learners should refer to their specific schedule provided on the first day of the rotation.

**Learners may also go to the VAMC 10th floor for Academic ½ day or may stay at ACC clinic on Weds afternoons.**

Revised January 2013
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: Yes - 1 day per week of rotation
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
CARDIAC CATHETERIZATION LABORATORY (UMH)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 853</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Mauricio G. Cohen, MD, FACC</td>
</tr>
<tr>
<td></td>
<td>University of Miami Hospital, Suite 1179</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-5050</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:mgcohen@med.miami.edu">mgcohen@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Angelica Escalante; 305-243-2218; <a href="mailto:aescalan@med.miami.edu">aescalan@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine (Cardiology or Cardiology Consult preferred) Must contact Dr. Cohen two weeks in advance via email</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>Yes - One or two days off</td>
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<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</table>

**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:

Revised January 2013
CARDIOLOGY CONSULT (JMH or VAMC)

<table>
<thead>
<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>305-585-5523</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>Internal Medicine</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 4 week elective in block 7AB</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes - 2 days max on 4 week rotation</td>
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</table>

Overview / Course Design:
This rotation includes consultative diagnosis, electrocardiography, and intensive medical and surgical cardiac care at either JMH or VAMC. 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.

Location:
JMH and/or VAMC.

Prerequisite:
Internal Medicine Clerkship

Students should arrive at 9:00 am on the first day of the rotation to Noemi Melendres’ office at JMH Central Building Room 409.

Reviewed January 2013
JFK CARDIOLOGY CONSULT ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 967</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Robert Chait, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-447-6551</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:jsolescito@med.miami.edu">jsolescito@med.miami.edu</a></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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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>All year</td>
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<td>INTERVIEWING TIME:</td>
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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 2013
**HOLY CROSS HOSPITAL CARDIOLOGY ELECTIVE**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 913</th>
</tr>
</thead>
<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></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>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All Year EXCEPT Blocks 1A and CB</td>
</tr>
<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>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

**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.

Revised March 2013
# CARDIOLOGY TEACHING LAB – HARVEY
## 4 WEEK PROGRAM

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 823</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<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>
</tr>
<tr>
<td>Gordon Center for Research in Medical Education [D-41]</td>
<td></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>24</td>
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<tr>
<td>AVAILABLE:</td>
<td>4AB, 5AB, 6AB, 8AB, 9AB</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>Yes – 3 days with prior notification</td>
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<tr>
<td>TYPE:</td>
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</table>

## 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

## 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.

Reviewed January 2013
**CARDIOLOGY TEACHING LAB – HARVEY**

**2 WEEK PROGRAM**

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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<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>
</tr>
<tr>
<td>Gordon Center for Research in Medical Education [D-41]</td>
<td></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine</td>
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<td>NUMBER OF STUDENTS:</td>
<td>24</td>
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<td>AVAILABLE:</td>
<td>7B, AA</td>
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<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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</table>

**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

**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.

Reviewed January 2013
CARDIAC CARE UNIT (UMH - CCU) [TYPE A]

COURSE CODE: MDR 822
CLERKSHIP DIRECTOR: Robert Hendel, MD  rhendel@med.miami.edu
TELEPHONE 305-243-8092
EMAIL: EMadera@med.miami.edu
CONTACT: Elsi Madera
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of core clerkships
Contact Dr. Hendel at least 1 week before starting
NUMBER OF STUDENTS: 1
AVAILABLE: See below
U.S. VISITING STUDENTS: XXX
INTERVIEWING TIME: 4 wk rotation – 2 days to be made up on the weekend
TYPE: Clinical

Overview:
This sub-internship 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 term 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. Pericardiocentesis
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.
## Rotation Dates

<table>
<thead>
<tr>
<th>Rotation Dates</th>
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<tbody>
<tr>
<td>6/24/13 – 7/21/13</td>
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<tr>
<td>7/22/13 – 8/18/13</td>
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<td>8/19/13 – 9/15/13</td>
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<td>9/16/13 – 10/13/13</td>
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<td>10/14/13 – 11/10/13</td>
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<td>11/11/13 – 12/08/13</td>
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<td>12/09/13 – 1/05/14</td>
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<td>1/06/14 – 2/02/14</td>
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<td>2/03/14 – 3/02/14</td>
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<td>3/03/14 – 3/30/14</td>
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<td>3/31/14 – 4/27/14</td>
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<td>4/28/14 – 5/25/14</td>
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<td>5/26/14 – 6/22/14</td>
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</table>

Revised December 2013
CORONARY CARE UNIT (JMH - CCU)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 829</th>
</tr>
</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>
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<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>XXX</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes - 1 day per week of rotation</td>
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<td>TYPE:</td>
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</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

Revised May 2013
ENDOCRINOLOGY, DIABETES, & METABOLISM

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 826</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Maria Pilar Solano, MD.  <a href="mailto:msolano@med.miami.edu">msolano@med.miami.edu</a></td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-1062</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Star Canamero  <a href="mailto:Scanamer@med.miami.edu">Scanamer@med.miami.edu</a></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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<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>
<td>Yes – 2 days over 4 weeks</td>
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<td>TYPE:</td>
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</tbody>
</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 2013
**GASTROENTEROLOGY**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 830</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Amar R. Deshpande MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-5199 (Anouk Gachelin)</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:agachelin@med.miami.edu">agachelin@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Amar R. Deshpande MD</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine and 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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<td>TYPE:</td>
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**OVERVIEW**

This is a 4-week elective intended to expose the senior medical student to a 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, both at the Inflammatory Bowel Disease clinic and while watching advanced endoscopic procedures. Finally, the student will have the opportunity to go to clinic and watch procedures at the VA. All students will meet with Dr. Deshpande, the rotation coordinator, weekly, and they are expected to attend fellow conferences and the VA and JMH fellows’ clinics.

**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 gastrointestinal diseases.

B. 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

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:
   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

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:
   a. Dysphagia
   b. Abdominal pain
c. Nausea and vomiting
d. Diarrhea
e. Constipation
f. Gastrointestinal bleeding

C. 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
A. 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.
B. 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.
C. Faculty performance will be evaluated by the medical student (submitted anonymously).
D. Credit will be given for exceptional performance.

Revised January 2013
# 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>
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</table>
| CLERKSHIP DIRECTOR:  | Juan Carlos Palacios, M.D  
                      | Rose van Zuilen, PhD (Associate Director) |
| TELEPHONE:           | 305-575-3388     |
| EMAIL:               | jpalacios@med.miami.edu, rzuilen@med.miami.edu |
| CONTACT:             | geriatriceducation@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           |
| 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 a comprehensive geriatrics assessment. Clinical activities will 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 may also have an opportunity to participate in geriatric services at UMHC and UMH.

## 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 GeriU, 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 (80%), University of Miami Hospital and University of Miami Hospital and Clinics (20%)

Participating Faculty:
Juan Carlos Palacios, MD – Clerkship Director
Juan Carlos Palacios, MD – Clerkship Director and Director, Hospice Unit
Rose van Zuilen, PhD – Associate Clerkship Director and Co-Director, Longitudinal Theme in Geriatrics, Pain Management, and Palliative Care
Michael J. Mintzer, MD – Director, Longitudinal Theme in Geriatrics, Pain Management, and Palliative Care
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 document their patient encounters on GeriU and turn in a learning objective checklist to the Geriatric Medicine Education Office at the end of the rotation.

Revised January 2013
GERIATRICS (Clinical)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 827</th>
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</thead>
</table>
| CLERKSHIP DIRECTOR: | Michael J. Mintzer, MD (VA CLC207)  
Rose van Zuilen, PhD, Clerkship Co-Director |
| TELEPHONE: | 305-575-3388 |
| CONTACT: | Rose van Zuilen, PhD  
ruzilen@med.miami.edu |
| EMAIL: | geriatriceducation@med.miami.edu |
| LENGTH OF ELECTIVE: | 2-4 weeks |
| PREREQUISITE: | Completion of Geriatrics Clerkship (MDR 957) |
| NUMBER OF STUDENTS: | 2 |
| AVAILABLE: | All year EXCEPT Blocks BB, CA, and CB |
| U.S. VISITING STUDENTS: | XXX |
| INTERVIEWING TIME: | Yes - 1 day max per week |
| TYPE: | Clinical/Research |

**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).

**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 geriatric services.

**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.

Students should contact Dr. van Zuilen at least one week 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.

**Prerequisite:**
Geriatrics Clerkship (MDR 957)

**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

Reviewed January 2013
ADVANCED GERIATRICS: MIAMI JEWISH HEALTH SYSTEMS

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 832</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; 305-298-6697</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>
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<tr>
<td>AVAILABLE:</td>
<td>All year</td>
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<tr>
<td>INTERVIEWING TIME</td>
<td>1 day</td>
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<td>TYPE:</td>
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*Please call Dr. Kiedrowski in advance to let him 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.

**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 Edilia Alzugaray, 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 February 2013
ADVANCED GERIATRICS: MORSE GERIATRIC CENTER PALM BEACH

COURSE CODE: MDR 805
CLERKSHIP DIRECTOR: Karl Dhana, M.D.
TELEPHONE: 561-687-5768
EMAIL: KarlD@morselife.org
CONTACT: Joseph Sollecito; jsollecito@med.miami.edu; 561-447-6551
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Integrated Medicine Clerkship or Geriatrics Clerkship
NUMBER OF STUDENTS: 1
AVAILABLE: All year, but must be approved by the Clerkship Director before they are considered final. Students should email to obtain prior approval.
U.S. VISITING STUDENTS: None
INTERVIEWING TIME: 1 day
TYPE: Clinical

This meets the requirement for the two week course in geriatric medicine for Regional Medical Campus students. Depending on availability, this may also be taken as an elective by any of the Miami Campus students.

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.

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.

Reviewed January 2013
HEMATOLOGY

COURSE CODE: MDR 833
CLERKSHIP DIRECTOR: Mark Goodman M.D.
TELEPHONE: 305-243-6520
EMAIL: mgoodman@med.miami.edu
CONTACT: Keisha (Secretary)
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 4
AVAILABLE: All year
U.S. VISITING STUDENTS: XXX
INTERVIEWING TIME: Yes - 2 days on 2 wk rotation (1 day per week)
3 days beyond 2 wks
TYPE: Clinical

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 March 2010
MULTIDISCIPLINARY
HEMATOLOGY AND ONCOLOGY @ DEERFIELD BEACH

COURSE CODE: MDR 868
COURSE DIRECTOR: Mohammad Jahanzeb, MD
mjahanzeb@med.miami.edu
954-698-3665 / 954-698-3693
TELEPHONE: 561-447-6551
EMAIL: jsollecito@med.miami.edu
CONTACT: Joseph Sollecito
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 1
AVAILABLE: All year EXCEPT Blocks 5A, 6B, and 7A
U.S. VISITING STUDENTS: None
INTERVIEWING TIME: 3 days, with prior approval
TYPE: Clinical

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
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 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 2013
HEPATOLOGY

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<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>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of Internal Medicine Clerkship</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 blocks 1A &amp; 5B</td>
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<td>U.S. VISITING STUDENTS:</td>
<td>XXX</td>
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<td>INTERVIEWING TIME:</td>
<td>No</td>
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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

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 7:30am 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 who will provide a Hepatology orientation manual and direct them to the morning conference.

Reviewed January 2013
# INFECTIOUS DISEASE CONSULTATION SERVICE
## AT MOUNT SINAI MEDICAL CENTER

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 835</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Kenneth Ratzan, M.D.</td>
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<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>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</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>
<td>All year</td>
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<td>U.S. VISITING STUDENTS:</td>
<td>None</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes—3 days</td>
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## 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 March 2012
INFECTIONOUS DISEASE CONSULTATION SERVICE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 836</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Susanne Doblecki-Lewis, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-575-3388 or 305-689-7051</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:OParedes@med.miami.edu">OParedes@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Olga Paredes</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>Yes - 2 days max</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 (JMHS). 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 JMHS, 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 JMHS 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:** JMHS

**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 December 2013
LATIN AMERICA EXTERNSHIP ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 838</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>J. Donald Temple, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6826</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:ocata@med.miami.edu">ocata@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Olivia Cata [Jackson Medical Towers, East Bldg., Rm 1027 R-36]</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>4</td>
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<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>Three to six months prior to desired date</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
</tbody>
</table>

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 2013
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>305-585-6664</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Cary Menendez [JMH – Central #455 D-60]</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>2</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>Yes 1 day max on 2 wk rotation; 2 days max on 4 week rotation but must check with coordinator first</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.

Reviewed January 2013
MEDICAL INTENSIVE CARE UNIT (VA)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 840</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</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Cary Menendez [305-585-6664]</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>
</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>Yes - 1 day max on 2 wk rotation; 2 days max on 4 week rotation but must check with coordinator</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</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 2013
**JFK MEDICAL CENTER ICU MEDICINE**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 962</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Jonathan Marcus, M.D.</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:jmarcus.md@gmail.com">jmarcus.md@gmail.com</a></td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>561-447-6551</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>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>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>3 days</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

**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 a 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 2013
MEDICAL PSYCHIATRY UNIT (MPU) @ UMH
(Listed under both Medicine and Psychiatry)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 907</th>
</tr>
</thead>
</table>
| CLERKSHIP DIRECTOR: | Dr Jorge Sotelo, MD. Dr Joel Danisi, MD  
University Miami Hospital  
305-689-1352 / 305-689-1359 |
| TELEPHONE: | 305-243-3075 |
| EMAIL: | jsotelo@med.miami.edu; jdanisi@med.miami.edu |
| CONTACT: | Cary Fratacci RMSB #2100 cfratacc@med.miami.edu |
| LENGTH OF ELECTIVE: | 2 wks / 4 wks |
| PREREQUISITE: | Psychiatry Clerkship and Medicine Clerkship |
| NUMBER OF STUDENTS: | 1 |
| AVAILABLE: | All year |
| U.S. VISITING STUDENTS: | Yes |
| INTERVIEWING TIME: | 1 day for 2 wks / 3 days for 4 wks |
| TYPE: | Clinical |

**Overview:**
The Medical Psychiatric Unit is a specialty unit dedicated to the treatment of patients who cannot be admitted to a general psychiatric unit because of medical complexity, such as the need for telemetry, intravenous fluids, or oxygen supplementation, and cannot be optimally maintained on a standard medicine unit because of psychiatric symptoms, such as suicide risk, psychosis, cognitive dysfunction or delirium.

This is the only medical psychiatry unit in South Florida. All patients are evaluated and followed up daily by a multidisciplinary clinical team. The student will rotate at the 10 bed-unit at the University of Miami Hospital Medical Psychiatric Unit (MPU) with direct supervision from the attending unit directors. There is a choice of either 2 or 4 week elective rotation. The medical student will be involved in the care of patients with both medical and psychiatric conditions that are requiring inpatient care. Our mission is to train physicians with broad-based skills in both internal medicine and psychiatry. Students will be exposed to areas that combine the skills and knowledge of both disciplines to effectively treat common medical conditions relating to: substance and alcohol abuse, somatoform disorders, delirium, mood/anxiety disorders, chronic pain, AIDS/HIV, diabetes management, nutrition and geriatric care. This program is designed for students interested in the integrated medical care, and to expand their knowledge about the influence of biologic, physiologic, psychological, social factors in the medical illness.

**Course Design:**
The student will have the opportunity to participate in the development of an interdisciplinary plan of care that includes treatment, rehabilitation, health promotion, social service interventions and the commitment of key personnel, including physician, nursing, social work and rehabilitation staff, as well as administrative support. The intention is to optimize patients' health, function, and ability to live with the greatest degree of independence suitable for their situations. The discharge plan and disposition ensure continuity of care and community re-entry. The average length of an inpatient stay is around 15 days.

The health care team has a core of two faculty physicians (one psychiatrist and one internist), a social worker, and nurse(s), as well as physician house staff. Representatives from other services include pharmacists, activity therapists, psychologists, nutritionists, physical therapists and a podiatrist. Psychotherapy, neuropsychological testing, brain imaging, electroconvulsive therapy, and medical specialty consultations also are available.
The student will participate in the didactic activities designed for medical students and medicine residents at the University of Miami as follows:

**Med-Psych Unit Service on 6 North at the University of Miami Hospital:**

**Team members:**
- 1 Medicine Attending Director: Joel Danisi, MD
- 1 Psychiatry Director: Clara L Alvarez, MD
- 1 senior Geriatric Medicine fellow
- 1 IM resident
- 1 Psychiatry intern
- 1-2 CC3 or CC4 medical student

**Patient Admissions**
- 10 patient maximum census
  - 10 patient maximum per intern, re-distribute when necessary
- Maximum 5 admissions per day, 5 days/week
  - Admissions Sunday-Thursday, 7:30am-4pm
  - No admissions Friday or Saturday. If specific patients are admitted on Friday or Saturday, consideration of transfer to our service can be made on a case-by-case basis.
  - No ICU patients. Those patients requiring transfer to the ICU will no longer be primarily cared for by the Med-Psych inpatient team.

**Rounds and Didactics**
- Rounds 8-10:45am: Medicine and Psychiatry attendings, senior UMH Geriatric Medicine fellow, IM resident, psychiatry intern and students.
- 11am-12pm: Resident Report (Intern Report on Wednesdays)
- 12pm-1pm: Noon Medicine Conference
- 1pm onwards: floorwork, patient care, admissions
- Senior UMH Geriatric Medicine fellow on-site 8am-5pm and available to assist with admissions, patient care
- Team Meeting every Tuesday at 1:30 pm
- Weekly Psychiatry and Medicine Grand Rounds

**Goals / Objectives:**
Our goal is to provide a well-organized, fun experience for students to foster academic growth, and professional development. Both departments encourage students to identify areas of interest in advance in order to maximize their achievements during the rotation.

The objective of the unit is to provide assessment and management of both medical and psychiatric disorders, such as dementia with behavioral problems, substance overdose or withdrawal syndromes, infection, electrolyte imbalances, delirium, nutritional disorders, altered mental status, cardiovascular disease, anxiety or depression, poly-pharmacy, as well as, social and family issues, advance directives, discharge planning, ethics, and legal issues. The comprehensive, multidimensional evaluation is particularly designed for patients with complex debilitating illnesses and significant functional decline.

After the elective rotation, students would have:
- improved the psychiatric history taking and mental status exam skills
- improved the ability to treat acutely mentally ill patients
- learned to efficiently manage patients in a medical inpatient unit with psychiatric comorbidities
- the ability to effectively interact within a multidisciplinary treatment team
• gained exposure and understanding of the diagnosis and management of psychiatric disorders in the hospital setting
• the ability to recognize and diagnose major psychiatric disorders and formulate accurate differential diagnoses.
• the ability to recognize psychosocial triggers important in the medical management, stabilization and rehabilitation
• the ability to address difficult situations, and communicate professionally with different populations including the mentally ill patients and their families.
• become more creative in restoring physical wellbeing and medical compliance in the psychiatrically ill.
• become more comfortable in applying medical knowledge and reasoning to difficult complex clinical cases exhibiting both acute behavioral and medical conditions
• the ability to recognize neuropsychiatric symptoms of medical illnesses, and learn to appropriately manage medical conditions in the mentally ill.

Location:
Medical Psychiatric Unit MPU is located at the University Miami Hospital (100%).

Participating Faculty:
Joel Danisi, M.D., Associate Professor of Medicine, has specialty training in geriatric medicine and is board certified in both internal and geriatric medicine. Dr. Danisi is an expert in the management of complex illnesses, the aging process, and rehabilitative services for patients with dual diagnoses. He has previously directed a medical psychiatry inpatient unit.

Jorge Luis Sotelo, M.D., Assistant Professor of Clinical Psychiatry and Behavioral Sciences in the Division of Consultation-Liaison Psychiatry, is board certified in general psychiatry and psychosomatic medicine. Dr. Sotelo specializes in the treatment of psychiatric conditions in the medically ill.

Prerequisite:
Psychiatry and Medicine Clerkships

Expectations:
• Distribution of student's time: Clinical 80%, Discussion 20%
• Course description: Students will rotate at UMH-MPU under the supervision of psychiatry and internal medicine/Geriatric practice faculty to provide medical care for patients. The students are expected to participate in all clinical and academic activities at the unit (see course design). During this rotation student should be able to examine patients under direct supervision of a faculty attending, document initial medical admission, and daily progress notes, participate in the treatment planning with the patients and the team, participate in the call for consultations, and help in the education of patients and families. In summary clinical activities at the unit include:
  ✓ evaluation by direct observation, review of medical record, discussion of management and team meeting participation.
  ✓ admission H&P must be completed (signed) within 24 hours of admission.
  ✓ hydration risk assessment and rehabilitation potentials.
  ✓ issues regarding all 4 domains – medical, psychological, functional, and social, must be properly addressed in assessment and plan.
  ✓ complete MMSE and GDS for all admissions and document.
  ✓ complete pain assessment for all admissions and document.
  ✓ review and update advance directives, surrogate or healthcare proxy information, and code status to all admissions.
  ✓ reconcile all medications. All alternative medication such herbal or traditional, must also be
documented
✓ must review “nursing initial assessment note” (Demographics, Pain and psychosocial assessment, Fall risk, Braden scale, Pressure and skin ulcer, dysphagia, ADL & Barriers to learning
✓ when Braden scale < 18 → MD to request nutritional consult and order albumin and prealbumin levels.
✓ when Dysphagia noted → MD to refer to Speech pathologist for further evaluation.
✓ immunization Screen → Review record for influenza and pneumococcal vaccines. Influenza vaccination during the influenza season and pneumococcal vaccination for high risk patients (last vaccination > 6 years).
✓ update problem list
✓ update any new information on allergy – food or drug.
✓ initiate process for clearance from isolation MRSA or C. Difficile.
✓ attempt to remove Foley catheter whenever possible. Document reasons for continuing use of indwelling Foley catheter if it is unable to be discontinued.
✓ providers shall also order a Nutrition Consult within 24 hours if there is risk for pressure ulcers, new pressure ulcer or with the worsening of a pre-existing ulcer, when a wound is not healing properly, weight loss of 5% or more in 30 days or 10lbs in 180 days, when a patient is consuming less than 75% meals for greater than 3 days or more
✓ start thinking during consult & formulating discharge planning on admission.

The general goal of admission is to restore and maintain functional independence as best as possible. Although regaining the baseline or pre-morbid functional status is the usual expectation, the final outcomes, which dictate disposition, may be quite different than initial expectation.

Commonly seen conditions (Examples):
- Diabetes mellitus
- Mood disorders
- Co-morbid substance abuse disorders
- Anxiety disorders
- Dementia
- Delirium
- Psychiatric illness with co-morbid medical diagnosis that cannot be adequately addressed in the ambulatory care setting.
- Stroke
- Failure to thrive
- Polypharmacy
- Parkinsonism
- Pain disorders
- Heart Disease and anxiety
- IBS and psychiatric comorbidities
- S/P medication overdose
- Change in mental status
- Acute withdrawals with hallucinosis
- Steroid induced psychosis or mania
- DKA with delirium

Exclusion criteria
- Respiratory dependence status
- Stuporous or comatose patients
- Highly violent patients
- Suspicion or active tuberculosis

**Student Evaluation and Grading:**
The success of the program will be measured by the following outcomes:

- **Case Conference** – Students present grand rounds topics that demonstrate the interface between medicine and psychiatry. 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 include up to date supporting medical literature review. Examples of topics include psychiatry and palliative care, irritable bowel syndrome, sleep disorders, female sexual disorders, traumatic brain injury, history of medicine/psychiatry, responsible opioid prescribing, functional gastrointestinal complaints, metabolic syndrome and HIV/AIDS, mood and disorders in the medically ill, management of behavioral disturbances associated to dementia.

- **Rotation review:** students meet with the rotation director to discuss administrative and any academic issues or concerns.

- **Competencies:** Data Gathering (History taking, Interviewing skills), MSE Skills (reporting, written notes, oral case presentations), Interpretation (Analysis/synthesis), management skills, knowledge and learning, professional attitudes, responsibility/work ethic, communication and relationships.

- The medical student will receive a written evaluation at the end of the month. Grade is Pass/Fail

Revised January 2013
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 hemo- and peritoneal-dialysis, renal transplantation, plasmapharesis, 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 (1 team) or VAMC (1 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 or VAMC

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 March 2010
ONCOLOGY

COURSE CODE: MDR 859
CLERKSHIP DIRECTOR: Pasquale W. Benedetto, M.D.
TELEPHONE: 305-243-6604
EMAIL: pbenedet@med.miami.edu
CONTACT: Kim Parish [SCCC-3rd Floor #3310 D8-4]
LENGTH OF ELECTIVE: 4 Weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S. VISITING STUDENTS: XXX
INTERVIEWING TIME: Yes
TYPE: Clinical

Overview:
The Division of Hematology/Oncology is responsible for the diagnosis and treatment of neoplastic diseases at the three teaching hospitals: Jackson Memorial (JMH), University of Miami Hospitals and Clinics (UMHC), and Veterans Hospital (VAMC). The Department provides consultative services at the VAMC, 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) and University of Miami Hospitals and Clinics (UMHC)

Prerequisite: None
Expectations:
Students will also attend the Hemo-Onc Didactic Conference on Wednesdays, Tuesday and Thursday Fellows Core Curriculum Conference, monthly Journal Club and Friday Multi-disciplinary Tumor Board.

Reviewed March 2010
PROCEDURE TEAM MEDICAL STUDENT ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 956</th>
</tr>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Joshua D. Lenchus, DO, RPh, FACP, SFHM</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5215</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jlenchus@med.miami.edu">jlenchus@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Chief Medical Residents (305-585-5215) / Dr. Lenchus</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Internal Medicine and Surgery Core Clerkships</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year, dependent on IM resident schedules, see below</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
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</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 days during the 2 week rotation</td>
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<tr>
<td>TYPE:</td>
<td>Clinical and research (if desired)</td>
</tr>
</tbody>
</table>

NOTE: Because of the need to sync this rotation with the Internal Medicine resident schedule, this 2 week rotation will “consume” an entire 4 week block. You cannot actually begin the rotation until week 2 of your 4-week block, as it corresponds to the first week of the resident rotation. You will spend weeks 2 and 3 on the rotation, and have the opportunity to stay on, without credit, for week 4.

You will only receive 2 weeks of credit for this elective (even though you will need to use a 4-week block in order to schedule it). The first and fourth weeks will need to be unscheduled time.

Please note available dates at the end of this description.

Overview:
The performance of an invasive bedside procedure carries with it inherent risks and potential complications. Incorrect accomplishment of such may adversely affect patient safety, increase hospital length of stay, necessitate the use of additional resources, and propagate incorrect procedural methods for the next generation of physicians. To this end a formal course in procedural instruction serves as a model for other institutions and as a standard within our own. The days of “see one, do one, teach one” are extinct. Students will undergo formal procedural instruction using task trainers/models. They will become familiar with relevant anatomy, and perfect the technical skills needed to successfully perform invasive bedside procedures, from pre-procedural assessment to post-procedural documentation and follow-up.

Course Design:
This course may be taken as a two or four week rotation (preferably four weeks). It is offered through a joint venture between the JMH Internal Medicine Residency and the UM-JMH Center for Patient Safety. The student will become familiar with the pre-procedural evaluation of patients, the informed consent process, the concept and applicability of a “time out,” the practice of aseptic technique, and the performance of various invasive bedside procedures. Medical students will complete 3 instructional half-days before joining the house staff on the Procedure Team, a service that operates daily as detailed below. The most commonly performed bedside procedures have been identified; other, more advanced, procedures can be incorporated at a future date. We have chosen those that are consistent with the American Board of Internal Medicine’s most recent required procedures for certification. These include:

- Abdominal paracentesis
- Thoracentesis
- Central venous catheter insertion
Ultrasound-guided internal jugular vein
- Subclavian vein
- Ultrasound-guide femoral vein
- Knee arthrocentesis
- Lumbar puncture

The student is expected to observe, assist, scrub, and/or perform the above procedures as needed.

Instruction occurs via a multi-disciplinary group of faculty, assisted by the use of video modules, and task trainers/models. Kits and equipment used are identical to that employed in the hospital.

The schedule is somewhat fluid as procedure requests are triaged according to urgency. Students are expected to attend Monday through Friday from 0800 until 1700. There is no overnight call, or weekend or holiday duty. They will be expected to carry the service beeper on a rotating basis with the residents that comprise the Procedure Team.

**Objectives/Goals:**

**Competency-based objectives**

1. Detail the major indications for performing the procedure (MK, PBLI).
2. List the major contraindications to the procedure (MK, PBLI).
3. Describe the procedure adequately to the patient in order to properly obtain a written informed consent (MK, IPS, PC, P).
4. Identify the relevant anatomy for the procedure, including proper patient positioning (MK).
5. Perform the steps involved in a pre-procedure “time out” (MK, PC, P, SBP).
6. Demonstrate relevant aseptic technique, including donning protective gear (MK, PC, P).
7. Exhibit proper use of ultrasound as a guide to identify relevant anatomical target (MK, SBP).
8. Obtain the technical skills required to perform the procedure confidently and competently (MK, IPS, PC, P, PBLI, SBP).
9. Recognize and address potential complications of the procedure (MK, IPS, PC, P, PBLI, SBP).

**Goals**

1. Increase student exposure to invasive procedures required and/or suggested by the American Board of Internal Medicine, among others.
2. Teach students pre-procedure assessment including, but not limited to indications, contraindications, and potential complications.
3. Educate students regarding the processes of informed consent, “time out,” and aseptic technique.
4. Provide multidisciplinary, faculty-level supervision of procedural skills during practice.
5. Allow students to practice said procedural skills in a controlled environment, using task trainers, models, and/or simulators.
6. Afford students the opportunity to perform said procedures, on patients, under direct faculty supervision.
7. Improve student confidence and competence in the performance of these procedures.
The student will accomplish these goals and objectives through participation in the instructional period (described below), direct faculty observation with feedback, and procedural performance, both during training and bedside, in the clinical arena.

Each procedure was created as a self-contained module; each instructional module is divided into twelve sections:

- **Introduction** – faculty introduce themselves and the procedure.
- **Skills check** – individual participants attempt to perform the procedure on a model, task trainer, or simulator; no feedback is given. The attending instructor uses a checklist to assess performance. This is done for those with prior experience.
- **Pre-test** – brief quiz to assess baseline procedural medical knowledge; no feedback is given.
- **Informed consent** – brief overview of the necessary components, and how to facilitate an informed decision-making process. Emphasis is placed on the accomplishment of this task prior to beginning the procedure.
- **Aseptic technique** – brief overview on the importance of hand-washing, and the relevance of protective clothing and equipment.
- **“Time-out”** – the application of this concept is reviewed and underscored with attention on proper patient, proper procedure, and proper site.
- **Video instruction** – procedural videos via the New England Journal of Medicine website are primarily used (with explicit written permission) but may be augmented or substituted by other commercial videos.
- **Attending demonstration** – the faculty member demonstrates the complete proper technique on the model for the benefit of the participants.
- **Participant practice** – each participant has a chance for individual practice on the model, accompanied by one-on-one attending-level feedback. The participants are encouraged to practice as many times as needed to achieve comfort.
- **Post-test** – brief quiz to assess post-instructional procedural medical knowledge. The test will be reviewed by the faculty member and the group of participants.
- **Procedural documentation** – brief overview on the importance of such written documentation, along with the necessary components of the note; examples from other areas of the institution may be provided.
- **Module evaluation** – each participant has the opportunity to evaluate the model and instructor, among other items.

**Location:**
The rotation will occur primarily at Jackson, but may include one or more UM sites (i.e. Sylvester Comprehensive Cancer Center, University of Miami Hospital, etc).

**Participating faculty:**
Dr. Lenchus (office: Central 600A; assistant: Mary Ann Santiago; phone: 305-585-5215).

**Prerequisite:**
Medical students must have completed the Internal Medicine and Surgery core clerkships.

**Expectations:**
- Attend daily, arriving promptly
- Treat team, staff members, and patients with courtesy and respect
- Immediately communicate issues affecting performance and/or attendance, among others
- Be receptive to feedback, evidenced by modifications in behavior or procedural technique
- Function as an integral member of the Procedure Team
- Meet the goals of the rotation by fulfilling the learning objectives
Student evaluations and grading:
Grades will be pass or fail. The participants are evaluated through the following mechanisms:

- Checklist assessment of technical proficiency – this is performed at the outset, using a model, for those with prior procedural experience. The identical tool is also used to evaluate the participant’s performance on a patient in a clinical area. The latter assessment differs from the former in its evaluation of several other items, namely:
  - Aseptic technique maintained throughout procedure
  - Number of attempts at procedure completion
  - Self-assessment of confidence (1-5) and competence (1-5)
  - Faculty assessment of confidence (1-5) and competence (1-5)

The checklists are reviewed with the participants at the end of each instructional module.

- Direct observation – the performance of the procedure is observed by a faculty member. The checklist is employed, but the faculty member’s subjective assessment is included as above, and reviewed. These will be used as a measure of longitudinal technical improvement; information gleaned from these will contribute to the final grade (25%).

- Pre- and post-tests – the participants complete a written test to assess their baseline medical knowledge at the outset of procedural instruction and again at the completion of each module. The tests are reviewed with the participants at the end of the module. These have no weight in determining the final grade.

The remainder of the grade will be a compilation of assessments reflective of the six ACGME core competencies. This portion will comprise the majority of the grade (75%) due to the intimate daily working environment between Team members and the supervising attending(s).

Instructional faculty members are evaluated by each participant at the completion of each module with respect to their preparation, knowledge, and communication. On the last day of the course/rotation, participants have the opportunity to perform a final evaluation. Components include feedback on the course’s overall utility, the equipment employed, strengths, and weaknesses, among others.

<table>
<thead>
<tr>
<th>Student Blocks</th>
<th>Actual Rotation Dates</th>
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<tbody>
<tr>
<td>6/24/13 – 7/21/13</td>
<td>7/1/13 – 7/14/13</td>
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<tr>
<td>7/22/13 – 8/18/13</td>
<td>7/29/13 – 8/11/13</td>
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<td>8/19/13 – 9/15/13</td>
<td>8/26/13 – 9/08/13</td>
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<td>9/16/13 – 10/13/13</td>
<td>9/23/13 – 10/06/13</td>
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<td>10/21/13 – 11/03/13</td>
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<td>11/11/13 – 12/08/13</td>
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<td>12/09/13 – 1/05/14</td>
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<td>1/06/14 – 2/02/14</td>
<td>1/13/14 – 1/26/14</td>
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<td>2/03/14 – 3/02/14</td>
<td>2/10/14 – 2/23/14</td>
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<td>3/03/14 – 3/30/14</td>
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<td>4/28/14 – 5/25/14</td>
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Reviewed January 2013
# PULMONARY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 843</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Timothy Scialla, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305- 243-7888</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Cary Menendez, [JMH-C455D] 305-585-6664 <a href="mailto:cmenedez@med.miami.edu">cmenedez@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>Internal Medicine</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>
<td>Yes - 4 days maximum (1 each week)</td>
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</table>

**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 we 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.

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

Reviewed January 2013
**SPECIAL IMMUNOLOGY**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 845</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Luis A. Espinoza, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2398/6389</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:lespinoza@med.miami.edu">lespinoza@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Dr. Espinoza</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
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<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
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**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 advanced human immunodeficiency virus (HIV) infection in both a dedicated inpatient ward and outpatient ambulatory facility. The spectrum of patients includes those with predominantly advanced HIV disease and acute opportunistic infections and/or malignancies in an inpatient setting. In an outpatient setting, this will involve evaluation and screening of patients with mildly symptomatic to advanced HIV disease. Special emphasis is placed on Infectious Disease, allergy and Immunology, 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 advanced human immunodeficiency virus disease.

**Location:** Jackson Memorial Hospital (100%)

**Prerequisite:** None

**Expectations:**
Students are assigned to a schedule with a resident. Working shifts are approximately 8 hours. No student will work past 5:00 p.m. or on week-ends.

Reviewed March 2012
## STUDENT HEALTH CLINIC

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 846</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:studenthealth@miami.edu">studenthealth@miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Gisela Stark, ARNP</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 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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### 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.

Reviewed January 2013
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: Wednesday 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.

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Reviewed January 2013
JMH WARD MEDICINE

COURSE CODE: MDR 847
CLERKSHIP DIRECTOR: Mark A. Gelbard, M.D.
TELEPHONE: 305-585-5095 / -5215
EMAIL: mgelbard@med.miami.edu
CONTACT: Mark Gelbard, M.D. [JMH Central 600A]
Isabel Felipe; 305-585-5095; ifelipe@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 8
AVAILABLE: See below
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: NO! – see below
TYPE: Clinical

NO CHANGES / NO ADD/DROPS ARE ALLOWED AFTER May 15, 2013.

ABSOLUTELY NO TIME OFF IS ALLOWED DURING THE ROTATION FOR ANY REASON.
Time off for interviews, taking Step 2, attending conferences or any other event is NOT allowed. 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. They are expected to work all weekends and major and minor holidays that their 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 the Attending Physician and a second or third year medical resident.

Students will be assigned to Jackson Memorial Hospital (JMH) medical teams. 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. They are expected to attend conferences such as Medical Grand Rounds and are invited to 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 and any 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 feedback at the end of the rotation. Students will, in turn, evaluate their resident and attendings at the conclusion of the rotation.

**Rotation Dates**

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</tbody>
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Revised January 2013
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: 2
AVAILABLE: See below
U.S VISITING STUDENTS: Yes
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. Two CC4 medical students will be assigned to the hospitalist service (one or two CC4’s with one hospitalist attending) or the GI service (one CC4 with attending, fellow, resident, interns). 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 a plan for improvement

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

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

**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.
• General 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.

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Revised January 2013
VAMC WARD MEDICINE

COURSE CODE: MDR 961
CLERKSHIP DIRECTOR: Devora C. Kahn MD
TELEPHONE: 305-575-3160 / -3147
EMAIL: devora.kahn@va.gov
CONTACT: Devora C. Kahn MD; devora.kahn@va.gov
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 4
AVAILABLE: See below
U.S VISITING STUDENTS: No
INTERVIEWING TIME: NO! – see below
TYPE: Clinical

NO CHANGES / NO ADD/DROPS ARE ALLOWED AFTER May 15, 2013.

ABSOLUTELY NO TIME OFF IS ALLOWED DURING THE ROTATION FOR ANY REASON. Time off for interviews, taking Step 2, attending conferences or any other event is NOT allowed. 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. They are expected to work all weekends and major and minor holidays that their 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:
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 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 every fourth day. Every second day in the four day cycle they will be on short call and can get one admission. 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 7:30 AM on post call days and 8 am on on-call days. Hand off/sign out rounds are daily at 6pm, except weekends and holidays at 3:30pm.
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 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 joint with UMH CC4s: 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.

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Revised January 2013
NEUROLOGICAL SURGERY
INTRODUCTION TO NEUROSURGERY

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<th>COURSE CODE:</th>
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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Howard Landy, MD and Ricardo Komotar, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6751</td>
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<tr>
<td>EMAIL:</td>
<td><a href="mailto:imenendez@med.miami.edu">imenendez@med.miami.edu</a></td>
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<tr>
<td>CONTACT:</td>
<td>Ingrid Menendez [Lois Pope Life Ctr. 2nd floor]</td>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
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<td>PREREQUISITE:</td>
<td>Internal Medicine, Surgery, and Neurology; If Neurology not possible, see below for links to three videos to view beforehand</td>
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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 2013
NEUROSURGERY

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<td>Howard Landy, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6751 / 9605</td>
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<td>EMAIL:</td>
<td><a href="mailto:imenendez@med.miami.edu">imenendez@med.miami.edu</a></td>
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<tr>
<td>PROGRAM COORDINATOR:</td>
<td>Ingrid Menendez [Lois Pope Life Ctr. 2nd floor]</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Ingrid Menendez [Lois Pope Life Ctr. 2nd floor]</td>
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<tr>
<td>LENGTH OF ELECTIVES:</td>
<td>4 Weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of all Core Clerkships and Neurology; If Neurology not possible, see below for links to three videos to view beforehand</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>4</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>Yes – 3 days max</td>
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<tr>
<td>TYPE:</td>
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</table>

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 (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: 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.
NEUROLOGY CLERKSHIP

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 707</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Janice Maldonado, M.D.</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:JMaldonado@med.miami.edu">JMaldonado@med.miami.edu</a></td>
</tr>
<tr>
<td>CLERKSHIP COORDINATOR:</td>
<td>Chemene Michel 305-243-4904 [Clinical Research Building 1314]</td>
</tr>
<tr>
<td>CONTACT:</td>
<td><a href="mailto:cmichel2@med.miami.edu">cmichel2@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>No</td>
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<td>INTERVIEWING TIME:</td>
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</tr>
<tr>
<td>TYPE:</td>
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</table>

**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.

Reviewed January 2013
BRAIN INJURY NEUROREHAB

<table>
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<tr>
<th>COURSE CODE:</th>
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<td>Janice Maldonado, M.D.</td>
</tr>
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</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<td>PREREQUISITE:</td>
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<td>U.S VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day / 3 days with prior approval</td>
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<td>TYPE:</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.

On the first day of the elective rotation, students should report to Coordinator of Senior Electives, Chemene Michel, at 9 AM in the Clinical Research Building (CRB), 13th Floor, 1314.

Revised March 2012
NEUROLOGY CONSULTATION

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<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day / 3 days with prior approval</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 (??%), VAMC (??%), UMH (??%), or UMHC/Sylvester Cancer Center (??%)

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.

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, Chemene Michel, at 9 AM at the Clinical Research Building (CRB), 13th Floor, 1314.

Revised March 2012
INPATIENT GENERAL NEUROLOGY AND CLINICS

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<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>
<td>XXX</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day / 3 days with prior approval</td>
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<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 (??%), VAMC (??%), PAC (Professional Arts Center-Neurology Clinic) (??%), UMH (??%), NPF (National Parkinsons Foundation Building) (??%).

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 1:00 PM – 2:00 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, Chemene Michel, at 9 AM in the Clinical Research Building (CRB) 13th Floor, 1314.

Revised March 2012
STROKE NEUROLOGY

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<td>Janice Maldonado, M.D.</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:jmaldonado@med.miami.edu">jmaldonado@med.miami.edu</a></td>
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<tr>
<td>CONTACT:</td>
<td>Chemene Michel 305-243-4904 [Clinical Research Building 1314]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cmichel2@med.miami.edu">cmichel2@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
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<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>
<td>Yes – 1 day / 3 days with prior approval</td>
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<td>TYPE:</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 (100%)

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, Chemene Michel, at 9 AM in the Clinical Research Building (CRB) 13th Floor, 1314.

Revised March 2012
OBSTETRICS & GYNECOLOGY

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: Yes, no more than two days for interviewing and must be approved by the coordinator prior to the start of the rotation
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 malignacies.

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) (??%)
• Sylvester Comprehensive Cancer Center (Fellow’s Conference, Tumor Board, operating rooms) (??%)
• University of Miami Hospital (operating rooms) (??%)

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 2013
UMH GYNECOLOGY

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<tr>
<th>COURSE CODE:</th>
<th>MDR 801</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christopher M. Estes, MD, MPH</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2984</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cestes@med.miami.edu">cestes@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>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Obstetrics and Gynecology Clerkship</td>
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<td>NUMBER OF STUDENTS:</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:**
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:
  - Perform a complete consult for common gynecologic problems encountered on an inpatient consult service
  - Perform and present a full history, physical and work-up for chronic gynecologic problems treated in the outpatient setting
  - Formulate a long term plan of management for chronic gynecologic problems treated in the outpatient setting
  - 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 consultations
  - 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:
- Christopher M. Estes, MD, MPH (coordinator)
- Ira Karmin, MD
- Amanda Richards-Bullock, MD
- Karen Tang, MD
- Tarek Bardawil, MD
- Nahida Chakhtoura, 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
o Demonstration of basic procedural and operating room skills
o Performance as an assistant during office and operating room surgeries
o Level of intellectual curiosity

Created August 2011
MATERNAL FETAL MEDICINE

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<tr>
<th>COURSE CODE:</th>
<th>MDR 857</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Gene Burkett, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-7481</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:GBurkett@med.miami.edu">GBurkett@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>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Obstetrics and Gynecology 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>Yes, no more than two days for interviewing and must be approved by the coordinator prior to the start of the rotation</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</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 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 – Gene 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 2013
OBSTETRICS & GYNECOLOGY AMBULATORY ROTATION

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 963</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Obstetrics and Gynecology Clerkship</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>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>Two days, approved prior to the start of the rotation</td>
</tr>
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<td>TYPE:</td>
<td>Clinical</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 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 Fridays and gynecology clinics on Tuesdays and Wednesdays. They will assist Dr. Garcia in seeing colposcopy 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
- 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

**Location:**
ACC – West 4A, 4B – JMH (100%)  

**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 2013
REPRODUCTIVE HEALTH

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 858</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christopher Estes, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2984</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:CEstes@med.miami.edu">CEstes@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>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Obstetrics and Gynecology Clerkship</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</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>Yes, no more than two days for interviewing and must be approved by the coordinator prior to the start of the rotation</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</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 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
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

Revised March 2011
REPRODUCTIVE ENDOCRINOLOGY & INFERTILITY

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<tr>
<th>COURSE CODE:</th>
<th>MDR 952</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>George Attia, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-8642</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:GAttia@med.miami.edu">GAttia@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>LENGTH OF ELECTIVE:</td>
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<td>PREREQUISITE:</td>
<td>Obstetrics and Gynecology Clerkship</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>
<td>Yes, but must check with coordinator on # of days</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</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:**
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, 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 (???%)
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 2013
ULTRASOUND IN GYNECOLOGY AND OBSTETRICS

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 800</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Christopher M. Estes, MD, MPH</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-2984</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cestes@med.miami.edu">cestes@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>LENGTH OF ELECTIVE:</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Obstetrics and Gynecology 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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<td>INTERVIEWING TIME:</td>
<td>1 day per 2 weeks</td>
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</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:
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 ACC 2
- Tuesday: Labor and Delivery
- Wednesday: GYN Operating Room at JMH
- Thursday: Private office and Ultrasound at Kendall
- Friday: OB/GYN Ultrasound at ACC

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
- Drainage of abscess or collection
- Injection of ectopic pregnancy
- Assist/perform at least 4 routine obstetrical ultrasounds in each trimester of pregnancy
- Assist/perform at least 4 ultrasound guided amniocentesis procedures
- Assist/perform at least 4 biophysical profiles

**Location:**
- Jackson Memorial Hospital (labor and delivery, operating rooms) (??%)
- JMH ACC (??%)
- UHealth at Kendall Clinic (??%)
- Professional Arts Center (??%)

**Participating Faculty:**
- Dr. Usha Verma (coordinator)
- Dr. Francisco Cruz

**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
- Students will prepare and present a topic presentation assigned by the course faculty
- 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
- A formal skills assessment in the performance of basic Gynecologic and Obstetrical ultrasounds will be administered by the course faculty
- Specific areas of knowledge/skill to be evaluated
  - Interpretation of normal and abnormal ultrasound findings
  - Patient counseling regarding ultrasound findings
  - Demonstration of basic ultrasound skills
  - Demonstration of appropriate preparations for ultrasound guided procedures
  - Performance as an assistant during procedures, surgeries and deliveries
  - Level of intellectual curiosity

Created August 2011
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</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:cmedina@med.miami.edu">cmedina@med.miami.edu</a> and <a href="mailto:ptakacs@med.miami.edu">ptakacs@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>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</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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<td>INTERVIEWING TIME:</td>
<td>Yes, no more than two days for interviewing and must be approved by the coordinator prior to the start of the rotation</td>
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<td>TYPE:</td>
<td>Clinical, and research, if desired</td>
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</tbody>
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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 two or four week rotation (preferably four weeks) in the University of Miami Division of Urogynecology and Reconstructive Pelvic Surgery. The rotation will be 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 and Dr. Takacs 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><strong>Urogynecology Clinic</strong></td>
<td></td>
<td></td>
<td>8am-12pm 2&lt;sup&gt;nd&lt;/sup&gt; and 4&lt;sup&gt;th&lt;/sup&gt; Tue of month Bachelor Center</td>
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<tr>
<td><strong>Preoperative Clinic</strong></td>
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<tr>
<td><strong>Cystoscopy Clinic</strong></td>
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<tr>
<td><strong>Urodynamic Laboratory</strong></td>
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<tr>
<td><strong>Operating Room</strong></td>
<td>7:30am-5pm</td>
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<td></td>
<td>7:00am-5pm</td>
<td></td>
</tr>
<tr>
<td><strong>Lectures, case presentations, preoperative meetings</strong></td>
<td></td>
<td></td>
<td>10am – 12noon (1&lt;sup&gt;st&lt;/sup&gt; and 3&lt;sup&gt;rd&lt;/sup&gt; Wednesday of the month)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PVT clinical experience</strong></td>
<td>8am to 4pm at UMH Suite 3</td>
<td></td>
<td></td>
<td>8am-4pm, Kendall Medical Center</td>
<td></td>
</tr>
<tr>
<td><strong>Ward rounds</strong></td>
<td>None</td>
<td>7:30am-8am</td>
<td>7:30am-8am</td>
<td>8:30am</td>
<td>8:00am if at UMH</td>
</tr>
<tr>
<td><strong>Reading/Research time</strong></td>
<td>8am-10am</td>
<td></td>
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</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 and Dr. Takacs (preoperative and urodynamic meetings- Holtz Center 7007)
4. Active participation in ward rounds (Holtz center 7A)
5. Clinic experience (UMH, Bachelor and Kendal Medical Center)
6. Cystoscopy clinic (Bachelor – Urodynamic Lab)
7. Urodynamic studies (Kendall – Urodynamic Lab)
8. Surgical experience (UM/JMH)

Location:
- Jackson Memorial Hospital (Holtz Center 7007, Ward 7A, DTC Operating Rooms) (%%)
- Bachelor URO Center (%%)
- UMH (%%)
- Kendal Medical Center (20%)

Participating faculty:
Dr. Medina and Dr. Takacs* (offices in Holtz Center 7007, phone number 305-585-5160, secretary – Mayra Cespedes 305-585-7091, coordinator – Tameka Collins.

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 or Dr. Takacs

**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) and ability to evaluate clinical cases.

Revised March 2012
OPHTHALMOLOGY

NOTE: ANY schedule changes involving ALL Ophthalmology rotations, must be authorized by Isabel Perez before your schedule can be officially changed.
OPHTHALMOLOGY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 860</th>
</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 [ABLEH]</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>Minimum of 5; 8 maximum</td>
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<tr>
<td>AVAILABLE:</td>
<td>2A, 3A, 4A, 5A, 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>Yes, 2 days max with prior arrangement</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

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:

a. Differentiate indicators of when to refer patients to an ophthalmologist
b. Perform an orderly eye examination, including proper use of the ophthalmoscope and different lenses.
c. Evaluate ancillary ocular tests abnormalities (Visual fields, OCT…)
d. Evaluate pupillary abnormalities.
e. Learn the management of common ocular problems and emergencies (conjunctivitis, superficial foreign body, chemical burns, trauma, etc.).
f. Examine a patient with red eye and initiate management when appropriate.
g. Discuss types of cataracts
h. Detect and describe disorders of ocular motility and describe prevention and treatment of amblyopia.
i. Recognize different types of glaucoma – risk factors and management (medications/laser/surgery)
j. 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 March 2013
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: 7A, 8A, AA, BA
U.S VISITING STUDENTS: No
INTERVIEWING TIME: Yes, 2 days max with prior arrangement
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 on line course** [http://www.aao.org/theyeshaveit/](http://www.aao.org/theyeshaveit/) (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.**

Created March 2013
OPHTHALMOLOGY @ BPEI / NAPLES

<table>
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<tr>
<th>COURSE CODE:</th>
<th>MDR 802</th>
</tr>
</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</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>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>All year, EXCEPT Blocks 2B through 6B, 8B, and BB</td>
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<td>U.S VISITING STUDENTS:</td>
<td>XXX</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day per week of rotation</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.
**OPHTHALMOLOGY @ BPEI / PALM BEACH GARDENS**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 898</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 Margaret Maietto <a href="mailto:mmaietto@med.miami.edu">mmaietto@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 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Email to clerkship director</td>
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<td>NUMBER OF STUDENTS:</td>
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<td>AVAILABLE:</td>
<td>All year EXCEPT Blocks 5A &amp; AB</td>
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<td>U.S. VISITING STUDENTS:</td>
<td>Yes</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day per week of rotation</td>
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<td>TYPE:</td>
<td>Clinical</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 specialties 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 subspecialty 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.

Reviewed March 2013
OPHTHALMOLOGY AT VAMC

<table>
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<th>COURSE CODE:</th>
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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Anat Galor, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-324-4455 ext 4178</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Isabel R. Perez 305-326-6312 BPEI, 900 N.W. 17th Street, Suite 245</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:lrperez@med.miami.edu">lrperez@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>None, Email to clerkship coordinator</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>
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<td>INTERVIEWING TIME:</td>
<td>Yes - 1 day per week of rotation</td>
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<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</tbody>
</table>

**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:**
- Email to the course coordinator

**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.

**Student Evaluation and Grading:**
- Students will be evaluated (pass/fail) by their attendance and participation in the clinical setting.

Revised January 2013
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>
<th>MDR 862</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>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>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>Yes - 2 Days and by permission only</td>
</tr>
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<td>TYPE:</td>
<td>Clinical</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 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 send a 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**

Revised January 2013
### 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>
<td>All year, EXCEPT BLOCK 7AB (Only students applying to ORTHO approved from June-Dec)</td>
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<td>U.S VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes - 2 Days and by permission only</td>
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<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 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 send a 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 2013
HAND SURGERY

COURSE CODE: MDR 866
CLERKSHIP DIRECTOR: Patrick Owens, M.D.
TELEPHONE: 305-585-1315
EMAIL: orthoapp@med.miami.edu
CONTACT: Viveka Spivey / Carmen Fuente [Rehab Bldg Rm. 303]
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Must have completed 6 months of core clerkships including Surgery
NUMBER OF STUDENTS: 2
AVAILABLE: All year (Only students applying to ORTHO approved from June-Dec)
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: Yes - 2 days by permission only
TYPE: Clinical

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 send a 100% of their time at Jackson Memorial 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
- Judgement
• 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)

Reviewed January 2013
# MUSCULOSKELETAL ONCOLOGY SERVICE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 867</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>NUMBER OF STUDENT:</td>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year (Only students applying to ORTHO approved from June-Dec)</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes - 2 days and by permission only</td>
</tr>
<tr>
<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:
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 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

Reviewed January 2013
**SPINE SERVICE**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 870</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>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year <em>(Only students applying to ORTHO approved from June-Dec)</em></td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes - 2 days and by permission only</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.

**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, including exposure to the management of spinal cord injury rehabilitation. 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 spend 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)

Reviewed January 2013
SPORTS MEDICINE ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 864</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Bryson Lesniak, 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>
</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>Yes – 1 day by permission only</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</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.

**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. In addition, each student will receive a CD-ROM of supplemental reading material they will be required to read.

There will be a test at the end of the two weeks.
**Location:**
The student will spend 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. Bryson Lesniak; 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, professionalism, and the results of the examination.

**On the first day of the rotation students should report at 6:45am to the PGY2 sports medicine resident, beeper 305-483-7226.**

Reviewed January 2013
OTOLARYNGOLOGY
# OTOLOGY (Clinical)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 871</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Fred Telischi, 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>
<td>1</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>NO</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes - 2 days</td>
</tr>
<tr>
<td>TYPE:</td>
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</tbody>
</table>

## Overview:
Otology 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 (??%); JMH (??%); ABLEH (??%)

## Prerequisite:
Otolaryngology Elective or Sub-I

Revised January 2013
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: Yes - 1 day 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 pathalogy 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:** JMH (??%), CRB (??%), BPEI (??%), SCCC (??%), and UMH (??%)

**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.

Revised January 2013
OTOLARYNGOLOGY (Subinternship) [TYPE B]

COURSE CODE: MDR 875
CLERKSHIP DIRECTOR: Lisa Grunebaum, MD
TELEPHONE: 305-243-6466
EMAIL: JMDunn@med.miami.edu
CONTACT: Jenine Dunn
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of Core Clerkships
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: Yes - 2 days maximum with prior approval
TYPE: Clinical

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, 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 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: JMH (??%), CRB (??%), BPEI (??%), SCCC (??%), and UMH (??%)

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.

Revised January 2013
# 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>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All Year, except blocks 7A/B, 8A/B, BA/B, and CA/B</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>No</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day per week</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
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</table>

## 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

## 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 December 2013
PATHOLOGY

COURSE CODE: MDR 879
CLERKSHIP DIRECTOR: Carol K. Petito, M.D.
TELEPHONE: 305-585-8381
EMAIL: m.perez4@med.miami.edu
CONTACT: Mercedes Perez [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 CB
U.S VISITING STUDENTS: None
INTERVIEWING TIME: Yes - 1 day every 2 weeks
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
- Holtz, Rm 2044, Ms. Mercedes Perez, Coordinator
- 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.

Revised January 2013
ADOLESCENT MEDICINE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 880</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Onelia G. Lage, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-5880</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Oriali Coffigny Mailman Center #1058A D-820</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Pediatrics</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2 (rare exceptions may be considered)</td>
</tr>
<tr>
<td>AVAILABLE:</td>
<td>All year</td>
</tr>
<tr>
<td>U.S VISITING STUDENTS:</td>
<td>XXX</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes - 2 days</td>
</tr>
<tr>
<td>TYPE:</td>
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</tr>
</tbody>
</table>

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 INPATIENT UNIT
The student will have opportunities to perform consultation examinations of adolescent patients, as well as participate in multidisciplinary care. The student will also participate in consultations at the inpatient addictions and psychiatric unit for adolescents.

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, Diabetes, Chronic Disease, HIV), weekly school- based clinic at a local senior high school, and weekly visits to the juvenile detention center. They 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

Prerequisite: Completion of Pediatrics core clerkship

Expectations:
The student will attend daily noon conference and case discussions, as well as weekly Pediatric conferences (Grand Rounds/M&M 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 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

Reviewed March 2010
CHILD PROTECTION TEAM

COURSE CODE: MDR 881
CLERKSHIP DIRECTOR: Walter F. Lambert, M.D.
TELEPHONE: 305-243-7550
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: Yes - 2 days maximum and arranged prior to rotation
TYPE: Clinical

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 2013
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: XXX
INTERVIEWING TIME: Yes - 2 days
TYPE: Clinical

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 2013
PEDIATRIC CARDIOLOGY

COURSE CODE: MDR 885
CLERKSHIP DIRECTOR: Sethuraman Swaminathan, M.D. (sswami@med.miami.edu)
TELEPHONE: 305-585-6683
CONTACT: Alixe Marcial (aemarcial@med.miami.edu)
EMAIL: see above
LENGTH OF ELECTIVE: 2 weeks
PREREQUISITE: Pediatrics
NUMBER OF STUDENTS: 1
AVAILABLE: All Year
U.S VISITING STUDENTS: XXX
INTERVIEWING TIME: No
TYPE: Clinical

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 outpatient 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

Reviewed January 2013
# PEDIATRIC DERMATOLOGY
(Listed under both Dermatology and Pediatrics)

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<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Jan Izakovic, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-689-7067</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:LCalero@med.miami.edu">LCalero@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Lourdes Herrero (Calero); 305-243-6284 or 305-243-4472</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>Starts August 5th (Block 2B) and all remaining blocks</td>
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<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>XXX</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes - 1 day per week with prior notification</td>
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<td>TYPE:</td>
<td>Clinical / Research</td>
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</table>

**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

**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 2013
PEDIATRIC EMERGENCY ROOM

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<th>COURSE CODE:</th>
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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:shogu@med.miami.edu">shogu@med.miami.edu</a></td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-6757</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Stephanie Hogu (Jackson North Wing RM 109)</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 or 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Pediatrics</td>
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<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>
<td>Yes –1 day per week maximum</td>
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<td>TYPE:</td>
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</table>

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

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<th>COURSE CODE:</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>Janine Domlesky 305-243-0841</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>
<td>1</td>
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<td>AVAILABLE:</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes - 2 days maximum</td>
</tr>
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<td>TYPE:</td>
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</table>

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 and four teaching conferences per week. There is also involvement with care of patients at Jackson Memorial Hospital.

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

Location:  JMH (5%) / Mailman (95%)

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 2013
# PEDIATRIC GASTROENTEROLOGY, HEPATOLOGY & NUTRITION

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<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Amber Langshaw, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-6426</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Kareen Joseph [MCCD Building 3005-A]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:Kjoseph@med.miami.edu">Kjoseph@med.miami.edu</a>, <a href="mailto:alangshaw@med.miami.edu">alangshaw@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks / 4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>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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<tr>
<td>U.S VISITING STUDENTS:</td>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes, with prior notification – 1 day for 2 wk rotation &amp; 3 days for 4 wk rotation</td>
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<td>TYPE:</td>
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## 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 (??%) and satellite outpatient clinics (??%) 

## 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.

Re-instated May 2010
# PEDIATRIC INFECTIOUS DISEASES AND IMMUNOLOGY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<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>Charlene Pelaez; 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>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>1</td>
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<td>AVAILABLE:</td>
<td>All year</td>
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<td>INTERVIEWING TIME:</td>
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<td>TYPE:</td>
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</table>

## 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:
JMH (??%) and UMHC (??%)

## 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

Reviewed January 2013
PEDIATRIC INTENSIVE CARE UNIT

[TYPE A]

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>G. Patricia Cantwell, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-6051</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:pcantwel@med.miami.edu">pcantwel@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Alixe Marcial [ET 6006 R-131] <a href="mailto:aemarcial@med.miami.edu">aemarcial@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Completion of Core Clerkships</td>
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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>See below for dates</td>
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<tr>
<td>U.S VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes – 2 days</td>
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<td>TYPE:</td>
<td>Clinical</td>
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</table>

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 multi-disciplinary 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;
    - Broad age range for maximal exposure (infancy to 21 years);
    - Outstanding, experienced nursing staff;
    - Full time, designated respiratory therapists and pharmacists;
    - Variable acuity (some “step-down” patients);
    - 24/7 fellow and resident coverage; attendings are present at least 10-12 hours each day, typically more;
    - 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.
<table>
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<tr>
<th>Rotation Dates</th>
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<td>4/28/14 – 5/25/14</td>
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Revised January 2013
PEDIATRIC Nephrology

COURSE CODE: MDR 894
CLERKSHIP DIRECTOR: Gaston Zilleruelo, M.D.
TELEPHONE: 305-585-6726
EMAIL: gzilleruelo@med.miami.edu
CONTACT: Gastón Zilleruelo, M.D. [JMH – Institute Annex Bldg 5th floor]
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Pediatrics
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: Yes - 2 days
TYPE: Clinical

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 2013
PEDIATRIC PULMONARY SERVICE

COURSE CODE: MDR 895
CLERKSHIP DIRECTOR: Annabelle Quizon, M.D.
TELEPHONE: 305-243-6162
EMAIL: aquizon@med.miami.edu
CONTACT: Elaina Johnson ejohnson@med.miami.edu Phone: 305-243-3176; [1580 Batchelor Children’s Inst., 1st floor]
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 2
AVAILABLE: All year
U.S VISITING STUDENTS: Yes
INTERVIEWING TIME: None
TYPE: Clinical

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 (??%).
- Out-patient clinics at the ACC-West of Jackson Memorial Hospital (??%).
- In-patient rounds at the Holtz’s Children’s Hospital at the Jackson Memorial Hospital (??%).

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

Reviewed January 2013
POISON CENTER / TOXICOLOGY ELECTIVE

COURSE CODE: MDR 896
CLERKSHIP DIRECTOR: Richard S. Weisman, Pharm. D., ABAT
TELEPHONE: 305-585-5250
EMAIL: rweisman@med.miami.edu
CONTACT: Sandy Guerra; squerra@med.miami.edu [Annex Institute, 3rd floor]
LENGTH OF ELECTIVE: 2/4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 3
AVAILABLE: All Year, except Block 7AB
U.S VISITING STUDENTS: XXX
INTERVIEWING TIME: Yes – 1 day per 2 week session
TYPE: Clinical

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.
WARD PEDIATRICS AT JMH

[TYPE A]

COURSE CODE: MDR 897

CLERKSHIP DIRECTOR: Akram Tamer, M.D.; ATamer@med.miami.edu [ET 6006]

TELEPHONE: 305-585-6042

CONTACT: Charlene B. Pelaez; 305-585-6364

EMAIL: c.pelaez@med.miami.edu

LENGTH OF ELECTIVE: 4 weeks

PREREQUISITE: Completion of all core clerkships

NUMBER OF STUDENTS: 2

AVAILABLE: See below for dates

U.S VISITING STUDENTS: Yes

INTERVIEWING TIME: Yes - 4 days maximum

TYPE: Clinical

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 are two attendings on each 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.
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Revised January 2013
PHYSICAL MEDICINE AND REHABILITATION
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>TELEPHONE:</td>
<td>305-585-1431</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>
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<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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<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year EXCEPT Blocks 1A, 1B, and 6B</td>
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<td>U.S VISITING STUDENTS:</td>
<td>Yes</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes--Negotiable / Permission Required</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. 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. 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. 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-plant 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%
- 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 2013
PSYCHIATRY
ADDICTION PSYCHIATRY ELECTIVE – WELLINGTON RETREAT

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<th>COURSE CODE:</th>
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<tr>
<td>COURSE DIRECTOR:</td>
<td>Robert A Moran, M.D., F.A.P.A.</td>
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<tr>
<td>TELEPHONE:</td>
<td>561-296-5288</td>
</tr>
<tr>
<td>EMAIL:</td>
<td>Zachary Levenson (Dr. Moran’s assistant) - <a href="mailto:zlevenson@wellingtonretreat.com">zlevenson@wellingtonretreat.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito – <a href="mailto:JSollecito@med.miami.edu">JSollecito@med.miami.edu</a> 561-447-6551</td>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
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<td>PREREQUISITE:</td>
<td>Completion of Core Clerkships</td>
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<td>INTERVIEWING TIME:</td>
<td>1 day/2wks or 3 days/4wks, with prior approval of course director</td>
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**Overview:** The medical student would have the opportunity to learn about all aspects of addiction and the major psychiatric disorders, at the Wellington Retreat, which is an addiction and psychiatric treatment facility.

**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;
- 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. 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

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<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>8:30AM-9:00AM</td>
<td>Situation Room</td>
</tr>
<tr>
<td>9:00AM-10:15AM</td>
<td>Group</td>
</tr>
<tr>
<td>10:15AM-11:00AM</td>
<td>Individual</td>
</tr>
<tr>
<td>11:00AM-11:45AM</td>
<td>Individual</td>
</tr>
<tr>
<td>12:00PM-1:00PM</td>
<td>Team</td>
</tr>
<tr>
<td>1:30PM-2:00PM</td>
<td>Caseload</td>
</tr>
<tr>
<td>2:15PM-3:15PM</td>
<td>Group</td>
</tr>
<tr>
<td>3:30PM-4:30PM</td>
<td>Group</td>
</tr>
</tbody>
</table>

The students would begin at 8:30AM by attending Situation Room which is the meeting for the staff, during which the staff will discuss the general logistics of coordinating the treatment schedules of all of the patients. The students would then attend one of the groups which occurs at 9AM. The course director runs the community meeting on Monday morning. Also, during this time on Tuesday thru Friday, the student will evaluate new admissions along with the course director. Between 10:15AM and 11:45AM, the student would meet with the two patients who have been assigned to him/her to follow during the month the student is here. At noon, the student will attend the team meeting and have an opportunity to participate in discussion. 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.
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 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 January 2013
MEDICAL PSYCHIATRY UNIT (MPU) @ UMH
(Listed under both Medicine and Psychiatry)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 907</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr Jorge Sotelo, MD. Dr Joel Danisi, MD University Miami Hospital 305-689-1352 / 305-689-1359</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>; <a href="mailto:jdanisi@med.miami.edu">jdanisi@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 wks / 4 wks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Psychiatry Clerkship and Medicine Clerkship</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>
<td>Yes</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day for 2 wks / 3 days for 4 wks</td>
</tr>
<tr>
<td>TYPE:</td>
<td>Clinical</td>
</tr>
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</table>

Overview:
The Medical Psychiatric Unit is a specialty unit dedicated to the treatment of patients who cannot be admitted to a general psychiatric unit because of medical complexity, such as the need for telemetry, intravenous fluids, or oxygen supplementation, and cannot be optimally maintained on a standard medicine unit because of psychiatric symptoms, such as suicide risk, psychosis, cognitive dysfunction or delirium. This is the only medical psychiatry unit in South Florida. All patients are evaluated and followed up daily by a multidisciplinary clinical team. The student will rotate at the 10 bed-unit at the University of Miami Hospital Medical Psychiatric Unit (MPU) with direct supervision from the attending unit directors. There is a choice of either 2 or 4 week elective rotation. The medical student will be involved in the care of patients with both medical and psychiatric conditions that are requiring inpatient care. Our mission is to train physicians with broad-based skills in both internal medicine and psychiatry. Students will be exposed to areas that combine the skills and knowledge of both disciplines to effectively treat common medical conditions relating to: substance and alcohol abuse, somatoform disorders, delirium, mood/anxiety disorders, chronic pain, AIDS/HIV, diabetes management, nutrition and geriatric care. This program is designed for students interested in the integrated medical care, and to expand their knowledge about the influence of biologic, physiologic, psychological, social factors in the medical illness.

Course Design:
The student will have the opportunity to participate in the development of an interdisciplinary plan of care that includes treatment, rehabilitation, health promotion, social service interventions and the commitment of key personnel, including physician, nursing, social work and rehabilitation staff, as well as administrative support. The intention is to optimize patients’ health, function, and ability to live with the greatest degree of independence suitable for their situations. The discharge plan and disposition ensure continuity of care and community re-entry. The average length of an inpatient stay is around 15 days.

The health care team has a core of two faculty physicians (one psychiatrist and one internist), a social worker, and nurse(s), as well as physician house staff. Representatives from other services include pharmacists, activity therapists, psychologists, nutritionists, physical therapists and a podiatrist. Psychotherapy, neuropsychological testing, brain imaging, electroconvulsive therapy, and medical specialty consultations also are available.
The student will participate in the didactic activities designed for medical students and medicine residents at the University of Miami as follows:

**Med-Psych Unit Service on 6 North at the University of Miami Hospital:**

**Team members:**
- 1 Medicine Attending Director: Joel Danisi, MD
- 1 Psychiatry Director: Clara L Alvarez, MD
- 1 senior Geriatric Medicine fellow
- 1 IM resident
- 1 Psychiatry intern
- 1-2 CC3 or CC4 medical student

**Patient Admissions**
- 10 patient maximum census
  - 10 patient maximum per intern, re-distribute when necessary
- Maximum 5 admissions per day, 5 days/week
  - Admissions Sunday-Thursday, 7:30am-4pm
  - No admissions Friday or Saturday. If specific patients are admitted on Friday or Saturday, consideration of transfer to our service can be made on a case-by-case basis.
  - No ICU patients. Those patients requiring transfer to the ICU will no longer be primarily cared for by the Med-Psych inpatient team.

**Rounds and Didactics**
- Rounds 8-10:45am: Medicine and Psychiatry attendings, senior UMH Geriatric Medicine fellow, IM resident, psychiatry intern and students.
- 11am-12pm: Resident Report (Intern Report on Wednesdays)
- 12pm-1pm: Noon Medicine Conference
- 1pm onwards: floorwork, patient care, admissions
- Senior UMH Geriatric Medicine fellow on-site 8am-5pm and available to assist with admissions, patient care
- Team Meeting every Tuesday at 1:30 pm
- Weekly Psychiatry and Medicine Grand Rounds

**Goals / Objectives:**
Our goal is to provide a well-organized, fun experience for students to foster academic growth, and professional development. Both departments encourage students to identify areas of interest in advance in order to maximize their achievements during the rotation.

The objective of the unit is to provide assessment and management of both medical and psychiatric disorders, such as dementia with behavioral problems, substance overdose or withdrawal syndromes, infection, electrolyte imbalances, delirium, nutritional disorders, altered mental status, cardiovascular disease, anxiety or depression, poly-pharmacy, as well as, social and family issues, advance directives, discharge planning, ethics, and legal issues. The comprehensive, multidimensional evaluation is particularly designed for patients with complex debilitating illnesses and significant functional decline.

After the elective rotation, students would have:
- improved the psychiatric history taking and mental status exam skills
- improved the ability to treat acutely mentally ill patients
- learned to efficiently manage patients in a medical inpatient unit with psychiatric comorbidities
- the ability to effectively interact within a multidisciplinary treatment team
• gained exposure and understanding of the diagnosis and management of psychiatric disorders in the hospital setting
• the ability to recognize and diagnose major psychiatric disorders and formulate accurate differential diagnoses.
• the ability to recognize psychosocial triggers important in the medical management, stabilization and rehabilitation
• the ability to address difficult situations, and communicate professionally with different populations including the mentally ill patients and their families.
• become more creative in restoring physical wellbeing and medical compliance in the psychiatrically ill.
• become more comfortable in applying medical knowledge and reasoning to difficult complex clinical cases exhibiting both acute behavioral and medical conditions
• the ability to recognize neuropsychiatric symptoms of medical illnesses, and learn to appropriately manage medical conditions in the mentally ill.

Location:
Medical Psychiatric Unit MPU is located at the University Miami Hospital (100%).

Participating Faculty:
Joel Danisi, M.D., Associate Professor of Medicine, has specialty training in geriatric medicine and is board certified in both internal and geriatric medicine. Dr. Danisi is an expert in the management of complex illnesses, the aging process, and rehabilitative services for patients with dual diagnoses. He has previously directed a medical psychiatry inpatient unit.

Jorge Luis Sotelo, M.D., Assistant Professor of Clinical Psychiatry and Behavioral Sciences in the Division of Consultation-Liaison Psychiatry, is board certified in general psychiatry and psychosomatic medicine. Dr. Sotelo specializes in the treatment of psychiatric conditions in the medically ill.

Prerequisite:
Psychiatry and Medicine Clerkships

Expectations:
• Distribution of student's time: Clinical 80%, Discussion 20%
• Course description: Students will rotate at UMH-MPU under the supervision of psychiatry and internal medicine/Geriatric practice faculty to provide medical care for patients. The students are expected to participate in all clinical and academic activities at the unit (see course design). During this rotation student should be able to examine patients under direct supervision of a faculty attending, document initial medical admission, and daily progress notes, participate in the treatment planning with the patients and the team, participate in the call for consultations, and help in the education of patients and families. In summary clinical activities at the unit include:
  ✔ evaluation by direct observation, review of medical record, discussion of management and team meeting participation.
  ✔ admission H&P must be completed (signed) within 24 hours of admission.
  ✔ hydration risk assessment and rehabilitation potentials.
  ✔ issues regarding all 4 domains – medical, psychological, functional, and social, must be properly addressed in assessment and plan.
  ✔ complete MMSE and GDS for all admissions and document.
  ✔ complete pain assessment for all admissions and document.
  ✔ review and update advance directives, surrogate or healthcare proxy information, and code status to all admissions.
  ✔ reconcile all medications. All alternative medication such herbal or traditional, must also be
documented
✓ must review “nursing initial assessment note” (Demographics, Pain and psychosocial assessment, Fall risk, Braden scale, Pressure and skin ulcer, dysphagia, ADL & Barriers to learning
✓ when Braden scale < 18 → MD to request nutritional consult and order albumin and prealbumin levels.
✓ when Dysphagia noted → MD to refer to Speech pathologist for further evaluation.
✓ immunization Screen → Review record for influenza and pneumococcal vaccines. Influenza vaccination during the influenza season and pneumococcal vaccination for high risk patients (last vaccination > 6 years).
✓ update problem list
✓ update any new information on allergy – food or drug.
✓ initiate process for clearance from isolation MRSA or C. Difficile.
✓ attempt to remove Foley catheter whenever possible. Document reasons for continuing use of indwelling Foley catheter if it is unable to be discontinued.
✓ providers shall also order a Nutrition Consult within 24 hours if there is risk for pressure ulcers, new pressure ulcer or with the worsening of a pre-existing ulcer, when a wound is not healing properly, weight loss of 5% or more in 30 days or 10lbs in 180 days, when a patient is consuming less than 75% meals for greater than 3 days or more
✓ start thinking during consult & formulating discharge planning on admission.

The general goal of admission is to restore and maintain functional independence as best as possible. Although regaining the baseline or pre-morbid functional status is the usual expectation, the final outcomes, which dictate disposition, may be quite different than initial expectation.

Commonly seen conditions (Examples):
• Diabetes mellitus
• Mood disorders
• Co-morbid substance abuse disorders
• Anxiety disorders
• Dementia
• Delirium
• Psychiatric illness with co-morbid medical diagnosis that cannot be adequately addressed in the ambulatory care setting.
• Stroke
• Failure to thrive
• Polypharmacy
• Parkinsonism
• Pain disorders
• Heart Disease and anxiety
• IBS and psychiatric comorbidities
• S/P medication overdose
• Change in mental status
• Acute withdrawals with hallucinosis
• Steroid induced psychosis or mania
• DKA with delirium

Exclusion criteria
• Respiratory dependence status
• Stuporous or comatose patients
• Highly violent patients
• Suspicion or active tuberculosis

**Student Evaluation and Grading:**
The success of the program will be measured by the following outcomes:

• Case Conference – Students present grand rounds topics that demonstrate the interface between medicine and psychiatry. 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 include up to date supporting medical literature review. Examples of topics include psychiatry and palliative care, irritable bowel syndrome, sleep disorders, female sexual disorders, traumatic brain injury, history of medicine/psychiatry, responsible opioid prescribing, functional gastrointestinal complaints, metabolic syndrome and HIV/AIDS, mood and disorders in the medically ill, management of behavioral disturbances associated to dementia.

• Rotation review: students meet with the rotation director to discuss administrative and any academic issues or concerns.

• Competencies: Data Gathering (History taking, Interviewing skills), MSE Skills (reporting, written notes, oral case presentations), Interpretation (Analysis/synthesis), management skills, knowledge and learning, professional attitudes, responsibility/work ethic, communication and relationships.

• The medical student will receive a written evaluation at the end of the month. Grade is Pass/Fail

Revised January 2013
MILITARY RELATED MENTAL HEALTH & GENERAL PSYCHIATRY @ VAMC

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 854</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Dr Alexander Perez, MD. Dr Adriana Cortes, MD</td>
</tr>
<tr>
<td></td>
<td>305-575-7000 ext 4534 (Dr. Perez) or ext 6307 (Dr. Cortes)</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-3075</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:Alexander.Perez@va.gov">Alexander.Perez@va.gov</a>; <a href="mailto:Adriana.Cortes@va.gov">Adriana.Cortes@va.gov</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 wks / 4 wks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Psychiatry 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>
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<tr>
<td>INTERVIEWING TIME:</td>
<td>1 day for 2 weeks / 3 days for 4 weeks</td>
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<td>TYPE:</td>
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</table>

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</td>
</tr>
<tr>
<td>12 noon- 1pm</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Grand Rounds</td>
<td>Lunch</td>
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<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.

Reviewed January 2013
PSYCHIATRY (Child & Adolescent)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 901</th>
</tr>
</thead>
<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>
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<tr>
<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>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
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</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day for 2 weeks or 2 days for 4 weeks</td>
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<tr>
<td>TYPE:</td>
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</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 2013
PSYCHIATRY (Consultation-Liaison Service)

<table>
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<tr>
<th>COURSE CODE:</th>
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<tr>
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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 2013
PSYCHIATRY (Geriatric)

<table>
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<th>COURSE CODE:</th>
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<tbody>
<tr>
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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 2013
PSYCHIATRY IN-PATIENT CLERKSHIP [JMH]

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 904</th>
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</thead>
<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:cftracc@med.miami.edu">cftracc@med.miami.edu</a></td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2/4 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Psychiatry</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</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>Yes – 1 day for 2 weeks or 2 days for 4 weeks</td>
</tr>
<tr>
<td>TYPE:</td>
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</tbody>
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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 – XX%
UMH – XX%

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 2013
PSYCHIATRIC EMERGENCY SERVICE (Crisis Intervention)

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<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 905</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Jorge L. Sotelo, M.D.</td>
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<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 weeks only</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Psychiatry</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
<td>2</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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<td>INTERVIEWING TIME:</td>
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<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.”

Reviewed January 2013
PSYCHIATRY (Ambulatory Special Elective)

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<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 906</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 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Psychiatry</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>
<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes – 1 day</td>
</tr>
<tr>
<td>TYPE:</td>
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</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 2013
SOUTH COUNTY MENTAL HEALTH CLINIC PSYCHIATRY ELECTIVE

COURSE CODE: MDR 968
COURSE DIRECTOR: Ann Laughlin, M.D.
TELEPHONE:
EMAIL: LaughlinA@SCMHCINC.ORG
CONTACT: Joseph Sollecito JSollecito@med.miami.edu
TELEPHONE: 561-447-6551
LENGTH OF ROTATION: 2-4 weeks
PREREQUISITE: Completion of all core clerkships
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
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 2013
RADIOLOGY
INTERVENTIONAL RADIOLOGY ELECTIVE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 969</th>
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<tbody>
<tr>
<td>COURSE DIRECTOR:</td>
<td>Jason Salsamendi, M.D.</td>
</tr>
<tr>
<td></td>
<td>(<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>
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<tr>
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<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>3 days</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:
Students will complete an attendance/case log, to be signed on a daily basis by the attending with whom they are working for the day. 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 absence is enforced. Any absences beyond the three days must be made up to avoid an incomplete in the rotation.

Reviewed January 2013
NUCLEAR MEDICINE

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 911</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Efrosyni Sfakianaki, M.D.</td>
</tr>
<tr>
<td>CONTACT PERSON:</td>
<td>Dorea Lindo, Administrative Assistant</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>TELEPHONE:</td>
<td>Phone: 305-585-7955</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:dlindo@med.miami.edu">dlindo@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Dorea Lindo</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>2 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>U.S VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>None</td>
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<td>TYPE:</td>
<td>Nuclear Medicine</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 September 2013
## PEDIATRIC RADIOLOGY (JMH)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 914</th>
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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>
<td>LENGTH OF ELECTIVE:</td>
<td>2 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Radiology I</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 6B</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>No</td>
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### 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 2013
RADIOLOGY I (Required)

COURSE CODE: MDR 909
CLERKSHIP DIRECTOR: Humberto O. Martinez, M.D.
TELEPHONE: 305-585-5778
EMAIL: mmartinez11@med.miami.edu
CONTACT: Maria Martinez [JMH WW-279]
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: None
NUMBER OF STUDENTS: 20 (minimum of 5)
AVAILABLE: All year, EXCEPT Block 6AB and 7AB
U.S VISITING STUDENTS: XXX
INTERVIEWING TIME: Discouraged, no more than 2 days and by permission only
TYPE: Clinical

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. 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 (45%), the performance on the final exam (45%), with the remaining 10% of the grade based on improvement in performance between the pre-test and final exam, attendance, participation, and interest in all the required sessions and lectures, at the discretion of the course director and coordinator.

Revised January 2013
RADIOLOGY II

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 910</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>2 weeks</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Radiology I</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year EXCEPT Block 6B</td>
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<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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</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.

Revised January 2013
RADIOLOGY @ MT. SINAI

COURSE CODE: MDR 908
CLERKSHIP DIRECTOR: William Burke, M.D.
TELEPHONE: 305-674-2251
EMAIL: ismith@msmc.com
CONTACT: Italia Smith
LENGTH OF ELECTIVE: 2 or 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 2 students, EXCEPT Blocks 5A, 5B, 6A when only 1 student allowed
                    No students Blocks 7A, 7B, and 8A
AVAILABLE: All year
U.S VISITING STUDENTS: No
INTERVIEWING TIME: Yes - 2 days on 4 week rotation
TYPE: Clinical

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 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).

Revised January 2013
RADIATION ONCOLOGY
RADIATION ONCOLOGY

<table>
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<tr>
<th>COURSE CODE:</th>
<th>MDR 915</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Cristiane Takita, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4337</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:aruiz2@med.miami.edu">aruiz2@med.miami.edu</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Andrea Ruiz  [SCCC - suite 1500]</td>
</tr>
<tr>
<td>LENGTH OF ELECTIVES:</td>
<td>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>
<td>All Year, EXCEPT Blocks 5B, 6A, 6B, and 7A</td>
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<td>U.S. VISITING STUDENTS:</td>
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<td>INTERVIEWING TIME:</td>
<td>No</td>
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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.

Revised March 2013
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, 4th floor, M-875]
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: XXX
INTERVIEWING TIME: Yes–2 days 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 2013
COURSE CODE: MDR 919
CLERKSHIP DIRECTOR: Anthony Panos, M.D.
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB, 4th floor, M-875]
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: XXX
INTERVIEWING TIME: Yes – 2 days 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 2013
# HOLY CROSS HOSPITAL CARDIOTHORACIC SURGERY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Harold Roberts, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>954-475-9535</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:HDRMD@aol.com">HDRMD@aol.com</a></td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Joseph Sollecito (<a href="mailto:JSollecito@med.miami.edu">JSollecito@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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<td>U.S. VISITING STUDENTS:</td>
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## Overview
This unique surgery sub-internship will allow the student to learn in a preceptor-based model about the surgical management of cardiovascular and thoracic diseases. The students will be exposed to a wide variety of surgical experiences, including open and minimally-invasive surgical approaches. The student will also engage in preoperative and postoperative assessment and treatment of patients. The students will have primary responsibility for the care and management of their patients.

## Course Design
The student will work with Dr. Justicz and his 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 the 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
- Alexander Justicz, M.D.
- Imad Tabry, M.D.
- Harold Roberts, M.D.
- Irving David, 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.

Updated January 2013
GENERAL SURGERY [EI]  [TYPE B]

<table>
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<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Stephen Rodgers, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB, 4th floor, M-875]</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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**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.

Revised March 2012
# GENERAL SURGERY [E II]

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MD R921</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Joe Levi, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB, 4th floor, M-875]</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>
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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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**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.

Reviewed January 2013
GENERAL SURGERY [ E III ]

COURSE CODE: MDR 922
CLERKSHIP DIRECTOR: Laurence Sands, M.D.
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB, 4th floor, M-875]
EMAIL: gotera@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: XXX
INTERVIEWING TIME: Yes – 2 days 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 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 2013
GENERAL SURGERY [ E IV]  

TYPE B

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 943</th>
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<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, 4th floor, M-875]</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:egotera@med.miami.edu">egotera@med.miami.edu</a></td>
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<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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<tr>
<td>INTERVIEWING TIME:</td>
<td>Yes – 2 days 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 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 2013
GENERAL SURGERY (VAMC)

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 944</th>
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<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, 4th floor, M-875]</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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</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 2013
JFK GENERAL SURGERY ELECTIVE

COURSE CODE: MDR 933

COURSE DIRECTOR: Michael Lopez-Viego, M.D.; Jesus Jimenez, M.D.

TELEPHONE/FAX: 561-447-6551

EMAIL: LopezViegoMD@yahoo.com / jjandsyl@bellsouth.net

CONTACT: Joseph Sollecito; jsollecito@med.miami.edu; 561-447-6551

LENGTH OF ELECTIVE: 2 / 4 weeks

PREREQUISITE: Completion of all core clerkships

NUMBER OF STUDENTS: 1

AVAILABLE: All year

U.S. VISITING STUDENTS: No

INTERVIEWING TIME: 1 day for 2 weeks, 3 days for 4 weeks, with prior approval

TYPE: Clinical

Overview:
This 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. The student will be required to attend the weekly Surgery Morbidity and Mortality Conference at JFK and the Educational Conferences on Friday AM for the surgical residents and Sub Interns. 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, Dr. Lopez-Viego or Dr. Jimenez. 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:
Miguel Lopez-Viego, M.D.
Jesus Jimenez, M.D.

Location:
JFK Medical Center (50%) and Bethesda Memorial Hospital (50%)

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 2013
JFK MEDICAL CENTER SURGERY SUB-INTERNSHIP

COURSE CODE: MDR 948
CLERKSHIP DIRECTOR: Robert Kozol, M.D. (robert.kozol@hcahealthcare.com)
561-548-1425
TELEPHONE: 561-447-6551
EMAIL: jsollecito@med.miami.edu
CONTACT: Joseph Sollecito
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Completion of all core clerkships
NUMBER OF STUDENTS: 1
AVAILABLE: All year
U.S. VISITING STUDENTS: Yes
INTERVIEWING TIME: Yes – 2 days with prior approval
TYPE: Clinical

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.

Revised January 2013
ORAL AND MAXILLOFACIAL SURGERY

<table>
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<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Jesus Gomez, DDS</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-585-5326</td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:JAGomez@med.miami.edu">JAGomez@med.miami.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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<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:
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:
Dr’s. 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.

Revised January 2013
PEDIATRIC SURGERY

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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Holly Neville, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB, 4th floor, M-875]</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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<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 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 2013
# PLASTIC SURGERY

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<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Wrood Kassira, M.D. &amp; Seth Thaller, 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, 4th floor, M-875]</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>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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</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 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-East Tower 3019-9:00 A.M. to contact the chief resident at JMH.

Reviewed January 2013
SURGICAL INTENSIVE CARE UNIT

<table>
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<th>COURSE CODE:</th>
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</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Tanya Zakrison, MD</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB, 4th floor, M-875]</td>
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</tr>
<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>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>U.S. VISITING STUDENTS:</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:**
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 January 2013
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, 4th floor, M-875]
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: XXX
INTERVIEWING TIME: Yes, 1 day per 2 weeks, 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 2013
TRANSPLANT SURGERY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Junichiro Sageshima, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB, 4th floor, M-875]</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>Internal Medicine &amp; Surgery</td>
</tr>
<tr>
<td>NUMBER OF STUDENTS:</td>
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<tr>
<td>AVAILABLE:</td>
<td>All year, except block 7AB</td>
</tr>
<tr>
<td>U.S. VISITING STUDENTS:</td>
<td>XXX</td>
</tr>
<tr>
<td>INTERVIEWING TIME:</td>
<td>2 days 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/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 2013
TRAUMA ELECTIVE

COURSE CODE: MDR 931
CLERKSHIP DIRECTOR: Tanya Zakrison, MD
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB, 4th floor, M-875]
EMAIL: egotera@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Internal Medicine & Surgery
NUMBER OF STUDENTS: 1
AVAILABLE: All year, except block 7AB
U.S. VISITING STUDENTS: XXX
INTERVIEWING TIME: Yes – 2 days 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:
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. Ed Lineen

Reviewed January 2013
TRAUMA INTENSIVE CARE UNIT

COURSE CODE: MDR 932
CLERKSHIP DIRECTOR: Tanya Zakrison, MD
TELEPHONE: 305-243-4225
CONTACT: Evelyn Gotera [CRB, 4th floor, M-875]
EMAIL: egotera@med.miami.edu
LENGTH OF ELECTIVE: 4 weeks
PREREQUISITE: Internal Medicine & Surgery
NUMBER OF STUDENTS: 2
AVAILABLE: All year except block 7AB
U.S. VISITING STUDENTS: XXX
INTERVIEWING TIME: Yes – 2 days 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 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. Habib.

Reviewed January 2013
VASCULAR SURGERY

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Handel R. Robinson, M.D.</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>305-243-4225</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Evelyn Gotera [CRB, 4th floor, M-875]</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>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:
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

Revised January 2013
WOUND HEALING ELECTIVE
(Listed under both Dermatology and Surgery)

COURSE CODE: MDR 806

CLERKSHIP DIRECTOR:
Christopher J. Salgado, MD (Director)
christophersalgado@med.miami.edu
Robert S Kirsner MD, PhD (Co-Director)

TELEPHONE: 305-243-4225

CONTACT: Evelyn Gotera [CRB, 4th floor, M-875]

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: XXX

INTERVIEWING TIME: 1 days in 2 week or 2 days in 4 week rotation

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:
- 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:
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 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 2013
UROLOGY
**UROLOGY (Female)**

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>MDR 934</th>
</tr>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Yvonne Koch, M.D. and 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>
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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>INTERVIEWING TIME:</td>
<td>Yes as necessary with permission</td>
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<td>Clinical</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 (??%) and surgery at JMH (??%).

**Prerequisite:**
Must have completed core clerkships in Internal Medicine and Surgery

**Student evaluations and grading:**
Dr. Koch and 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.

Reviewed January 2013
UROLOGY (Out Patient)

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<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Charles Lynne, 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>
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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>
<td>Yes as necessary with permission</td>
</tr>
<tr>
<td>TYPE:</td>
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</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 learn to do a complete examination of the male genitourinary system. They will attend the outpatient clinics at both the VAMC and Jackson 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 and our attendings’ private clinics at PAC.

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.

Revised March 2011
UROLOGY (Subinternship) [TYPE B]

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
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<tbody>
<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Mark S. Soloway, 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>4 weeks</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Completion of all core clerkships</td>
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<td>INTERVIEWING TIME:</td>
<td>Yes as necessary with permission</td>
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<td>TYPE:</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 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 (??%), the VAMC (??%), and at UMH (??%).

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.

Reviewed January 2013
UROLOGY (Elective)

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<tr>
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<tr>
<td>CLERKSHIP DIRECTOR:</td>
<td>Charles Lynne, 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>
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<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>INTERVIEWING TIME:</td>
<td>Yes as necessary with permission</td>
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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 (??%)
- UMH (??%)
- UM PAC attendings’ private clinics (??%)

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 2013
UROGYNECOLOGY SUB-INTERNSHIP
(Listed under both Obstetrics & Gynecology and Urology)

<table>
<thead>
<tr>
<th>COURSE CODE</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</td>
</tr>
<tr>
<td>EMAIL</td>
<td><a href="mailto:cmedina@med.miami.edu">cmedina@med.miami.edu</a></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:ptakacs@med.miami.edu">ptakacs@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>
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<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>
<td>Yes, no more than two days for interviewing and must be approved by the coordinator prior to the start of the rotation</td>
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<tr>
<td>TYPE</td>
<td>Clinical, and research, if desired</td>
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</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 two or four week rotation (preferably four weeks) in the University of Miami Division of Urogynecology and Reconstructive Pelvic Surgery. The rotation will be 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 and Dr. Takacs 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.
<table>
<thead>
<tr>
<th>Schedule</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></td>
<td></td>
<td>8am-12am 2nd and 4th Tue of month Bachelor Center</td>
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<tr>
<td>Preoperative Clinic</td>
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<tr>
<td>Cystoscopy Clinic</td>
<td></td>
<td></td>
<td>Same as URO Clinic</td>
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<tr>
<td>Urodynamic Laboratory</td>
<td></td>
<td></td>
<td>Optional Once during rotation</td>
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<td></td>
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<tr>
<td>Operating Room</td>
<td>7:30am-5pm</td>
<td>10am-12noon (1st and 3rd Wednesday of the month)</td>
<td>7:00am-5pm</td>
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<tr>
<td>Lectures, case presentations, preoperative meetings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PVT clinical experience</td>
<td>8am to 4pm at UMH Suite 3</td>
<td></td>
<td>8am-4pm, Kendall Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ward rounds</td>
<td>None</td>
<td>7:30am-8am</td>
<td>7:30am-8am</td>
<td>8:30am</td>
<td>8:00am if at UMH</td>
</tr>
<tr>
<td>Reading/Research time</td>
<td>8am-10am</td>
<td></td>
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</table>

**Goals:**

5. 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)

6. 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;

7. 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

8. To develop a personal program of learning to foster continued professional growth, with guidance from the teaching staff

**Objectives:**

17. Explain the normal anatomic supports and support mechanisms of the vagina, rectum, bladder, urethra and uterus.

18. Discuss normal and abnormal lower urinary tract, colorectal and vaginal function.

19. 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.

20. Summarize the normal functions of the lower urinary tract during filling and voiding phases, and the mechanisms of urinary incontinence.
21. 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.

22. 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.

23. Describe the indications for urodynamic testing, the various components, and be able to interpret the results.

24. Characterize various types of voiding disorders.

25. Discuss non-surgical therapeutic modalities to treat urinary incontinence.

26. Define the most common surgical procedures utilized to treat urinary incontinence and understand their indications, contraindications.

27. Perform a specific pelvic evaluation utilizing appropriate diagnostic techniques to evaluate pelvic organ prolapse utilizing primarily the POP-Q system.

28. Differentiate between selected tests to characterize lower urinary tract disorders [residual urine, Q-tip testing, simple cystometry, Puff questionnaire, and Potassium Sensitivity test].

29. Describe the most common surgical procedures utilized to treat pelvic organ prolapse.

30. Obtain a specific history to evaluate fecal incontinence, perform a direct physical evaluation and select necessary diagnostic tests to evaluate the condition.

31. Describe the following conditions: vesicovaginal fistula, rectovaginal fistula, urethral diverticulum, urethritis, urethral syndrome, and interstitial cystitis.

32. Diagnose and treat acute, chronic and recurrent urinary tract infections.

The student will accomplish the objectives and goals of the rotation by the following:

9. Assigned readings (text material provided)
10. Specific literature search
11. Lectures and case discussions with Dr. Medina and Dr. Takacs (preoperative and urodynamic meetings- Holtz Center 7007)
12. Active participation in ward rounds (Holtz center 7A)
13. Clinic experience (UMH, Bachelor and Kendal Medical Center)
14. Cystoscopy clinic (Bachelor – Urodynamic Lab)
15. Urodynamic studies (Kendall – Urodynamic Lab)
16. Surgical experience (UM/JMH)

Location:
- Jackson Memorial Hospital (Holtz Center 7007, Ward 7A, DTC Operating Rooms) (??%)
- Bachelor URO Center (??%)
- UMH (??%)
- Kendal Medical Center (20%)

Participating faculty:
Dr. Medina and Dr. Takacs* (offices in Holtz Center 7007, phone number 305-585-5160, secretary – Mayra Cespedes 305-585-7091, coordinator – Tameka Collins.

Prerequisite:
Completion of Core Clerkships. (Preferably a student with strong interest in OB/GYN or surgery)

Expectations:
10. Complete assigned readings
11. Complete assigned literature search and presentation
12. Attend scheduled lectures and meetings (present cases and actively participate in discussions)
13. Attend ward rounds (evaluate patients)
14. Attend clinics and evaluate patients
15. Attend scheduled surgical cases (observe and assist)
16. Function as a member of the urogynecology team (responsibilities)
17. Expected to meet the goals of the rotation by fulfilling the learning objectives
18. Attend Grand Rounds on Thursday mornings unless excused by Dr. Medina or Dr. Takacs

**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) and ability to evaluate clinical cases.

Revised March 2012
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 not be counted for credit unless a student obtains prior written approval from the Senior Associate Dean for Undergraduate Medical Education. Externships 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 externships at schools who use VSAS and schools that do not follows below.

Below you will find information on what you need to do to apply for an externship, either through VSAS or directly. You will also find information on how to obtain an immunization record and the Contact Information Form for when you are out of town.
APPLYING FOR EXTERNSHIPS
VSAS and NON-VSAS

VSAS APPLICATIONS

- For access to applying through VSAS you will contact Nancy Cuevas at (NCuevas@med.miami.edu), who will provide you with the authorizations needed to begin the process.
- The website for VSAS is www.aamc.org/students/medstudents/vsas.
- You will select the programs you would like to apply to.
- Check all requirements. Such as, Immunizations, Criminal background check, Drug testing, Mask fit test, Fingerprinting, Child Abuse Clearance. Not all programs request the same information.
- Complete your applications, select your dates, upload your documents. Contact Margarita Telleria at MTelleria@med.miami.edu for uploading of Transcripts to VSAS. (If you have trouble uploading any documents contact Nancy Cuevas for assistance).
- Once your application is complete it is time to submit. Once you have submitted your Application, send Nancy an email asking her to verify your application and release it to the program. Your application will not be released to the program unless you request it.
- Upon receipt of your acceptance letter, email, etc. You are to provide both Carol Archaga (for scheduling purposes) and Nancy Cuevas (for evaluations purposes) a copy prior to you leaving for your elective.

IF THE ACCEPTANCE LETTER IS NOT TURNED IN YOU WILL NOT RECEIVE CREDIT FOR YOUR EXTERNSHIP

- If an elective is cancelled, you are to provide both Carol Archaga and Nancy Cuevas with a copy of your cancellation notice.
- Evaluation forms are sent to the program directly from our office. Students at no time will hand deliver an Evaluation form to and from the programs.

NON-VSAS APPLICATIONS

- You must request applications directly from the program in which you would like to do your elective.
- You may visit their website or contact their Student Affairs office.
- Once you have received your application and have completed your portion, please bring it to Nancy Cuevas, (Office of Student Affairs, Suite 2100) for completion. EACH AND EVERY APPLICATION SHOULD BE BOUGHT TO THE OFFICE OF STUDENT AFFAIRS WHETHER IT REQUIRES THE DEAN’S SIGNATURE OR NOT.
- Completed applications can be picked up from Nancy’s office the following afternoon from the drop off date. (Pickup in the afternoons.)
- You will be provided with one copy of your completed application for your files.
- Upon receipt of your Acceptance Letter from the program you have applied to, you are to provide a copy to both Carol Archaga (for scheduling purposes) and Nancy Cuevas (for evaluations purposes) prior to you leaving for you elective. IF THE ACCEPTANCE LETTER IS NOT TURNED IN YOU WILL NOT RECEIVE CREDIT FOR YOUR EXTERNSHIP.
- Evaluation forms are sent to the program directly from our office. STUDENTS AT NOT TIME WILL HAND DELIVER AND EVALUATION FORM TO OR FROM THE PROGRAM.
INFORMATION REGARDING SPECIFIC TRAINING, IMMUNIZATIONS, OCCUPATIONAL REQUIREMENTS:

- Immunizations, Mask Fitting, Health Forms, OSHA Proof
  INSTRUCTIONS (CLICK HERE if ONLINE) or http://www.mededu.miami.edu/health/files/IMMUNIZATION%20INFO_and_UPDATES_for_EXTERNSHIPS_and_RESIDENCY_2013.pdf
  CONTACT SHARON GONI, Office of Student Services 2155, 305-243-7978
- Letters of Support, Student Standing, Transcripts, Proof of Liability Insurance, Fingerprinting, Background Checks, Drug Testing:
  Contact NANCY CUEVAS, Office of Student Affairs 2100, 305-243-2003

BLS CERTIFICATION INSTRUCTIONS—READ CAREFULLY
All students are required to have a current certification in BLS and ACLS at the time of graduation. Both BLS and ACLS certifications are automatically included as a mandatory component of the UM/JMH Emergency Medicine clerkship. However, you may need to schedule one or both of these courses outside of your EM clerkship. Each student registering for BLS and/or ACLS outside of their UM/JMH EM Clerkship needs to work through BOTH the EM Clerkship Coordinator, Vinessa Edwards (vedwards@jhsmiami.org) and UM Gordon Center Coordinator, Maria Davila (maria.davila@med.miami.edu) to do so.

BLS Courses (3 options):

1. Option 1 at UM GCRME: Attend the regularly scheduled BLS course offered to students in another EM clerkship. You would just complete the 1st 4 hours of the 2 day BLS-ACLS course. This course is provided free of charge to UM medical students if space is available, and MUST be scheduled in advance.
   a. For dates, go to http://www.gcrme.med.miami.edu/emst/courses.aspx?id=6&cl=1 or go to the GCRME site (gcrme.memiami.edu) and click on Emergency Courses, Course Information, “ACLS/BLS 2-day Combination”. You will see “Select a Class Date” at the bottom for the upcoming available courses.
   b. To register, send an email to maria.davila@med.miami.edu & vedwards@jhsmiami.org with your name, class year, which course you are registering for (e.g. “BLS” only) and the date.
2. Option 2 at UM GCRME: IF YOU HAVE BEEN PREVIOUSLY CERTIFIED IN BLS: Take the Online AHA BLS Course + Complete Skills Verification at the GCRME on one of the scheduled dates.
   a. American Heart Association BLS for Healthcare Providers Online Part 1 - http://www.onlineaha.org/index.cfm?fuseaction=info.bls. This is $22 and the GCRME does NOT cover this cost as this is directly through the AHA. Print out your completion certificate and bring it with you on the date you scheduled your skills verification.
   b. Skills Verification. For dates and times, go to http://www.gcrme.med.miami.edu/emst/courses.aspx?id=59&cl=1&d=5 and click on “Select a Class Date” at the bottom of the page. The skills verification is provided free of charge to medical students.
   c. To register, notify Ms. Edwards & Davila by email and please call 305-243-6491 to speak with Maria Davila to let her know date and specific 30 minute time period of the available times.
3. Option 3 at an Outside Agency: Take a “hands-on” AHA BLS course at your own expense (fees vary, on-line course NOT acceptable) at an outside American Heart Association site (e.g., another medical school, a hospital, etc.)
   a. Locate, register and complete that course.
   b. Notify Ms. Edwards and Ms. Davila of this plan by email at least 2 weeks prior to your UM/JMH EM Clerkship Start Date, and send them a copy of your BLS Certification card.
ACLS Courses (NOTE: on-line courses are not acceptable)

1. Option 1 at UM GCRME: Request space in one of the regularly scheduled 2-day ACLS courses for the EM Clerkship. SPACE IS LIMITED and may not be available. Course is free, follow BLS directions above.

2. Option 2 at UM GCRME: IF YOU WERE PREVIOUSLY ACLS-CERTIFIED and have a CURRENT CARD: Schedule a one-day ACLS Recertification class at UM GCRME instead of the 2 day class (as above).

3. Option 3 at an Outside Agency: Take a full 2 day “hands-on” AHA ACLS course at your own expense (fees vary, on-line course NOT acceptable) at an outside AHA-approved site.
   a. Locate, register and complete that course.
   b. Notify Ms. Edwards and Ms. Davila of this plan at least 2 weeks prior to your UM/JMH EM Clerkship Start Date, and send them a copy of your ACLS certification card.

ANY OTHER QUESTIONS PLEASE FEEL FREE TO STOP BY THE OFFICE OF STUDENT AFFAIRS
Office of Student Affairs, ROOM 2100
Tel: (305) 243-2003 / Fax: (305) 243-8389

Revised March 2013
IMMUNIZATION INFO and UPDATES for EXTERNSHIPS/RESIDENCY

Please read the details below CAREFULLY if you need to complete immunization records for externship/residency applications. Each form from each institution may be different, so take the time to evaluate exactly what you need. You should also plan ahead because some of these steps and waiting for results may take a little bit of time.

1. Where do I access my Immunization Records?

   Below is the link to the Cane ID site, where you should log in with your myUM password and user name to access your immunization records. You can then print any records you need.

   CLICK HERE to connect to LOGON page for IMMUNIZATION RECORDS

   Or website is located here:
   https://caneid.miami.edu/cas/login?service=https%3a%2f%2fmiami.medicatconnect.com%2findex.aspx

2. How do I complete my records?

   As you will see, MANY schools have individual forms, and many of them are different, with different requirements. PRINT out all the individual externship or residency HEALTH forms. It is YOUR responsibility to FILL IN THE FORM, using the information from your records, or any updated information you will receive once you get new titers, vaccine, etc (read below). You must fill in all the dates, titers, results, etc.

   IF your form requires a **signature from a medical provider** indicating that all the information is valid, please bring that form, AND any copies of results from any additional tests you may have had to the Office of Student Services (Room 2155, Dr. Hilit Mechaber’s office). Leave your form/documents with Sharon Goni and allow for 24-48 hours for these to be signed. **NOTE: if your form asks for a signature from a physician who has EXAMINED you...and performed a PHYSICAL EXAM, you will need to have this exam performed (NOT BY DR. MECHABER!) See below.**
3. **What do I do, or WHERE can I go to get vaccines boosters, or TITERS that I don’t have any record of receiving, or a PHYSICAL EXAM?**

For some, you will HAVE everything requested. For others, you may need MORE than your original records provide (e.g. some hospitals will require certain antibody titers even if you had the vaccines – school does NOT require these titers, so you may have not yet had them drawn). IF you have the need to obtain additional titers, vaccines, or tests, keep reading.

**SERVICES are available at the Student Health Center on the Coral Gables Campus:**

5513 Merrick Drive  
Coral Gables, FL 33146  
305-284-9100  
Metro Accessible, 'University’ station  
Online appointments available.

You do NOT need an appointment, but it is BETTER if you make one ONLINE (CLICK HERE to access APPOINTMENT PAGE) for fastest service.  
Please identify yourself as a MEDICAL STUDENT.

Click on [website](#) for hours/schedule/coverage/insurance info.

Click [HERE](#) for specific IMMUNIZATION information.

**CHARGES**

Routine visits and many other services at the Student Health Center are provided at NO CHARGE to all medical students, because you paid the Medical Student Fee. Other services including specialty clinic visits, x-ray, lab charges and immunization charges can be billed to most domestic insurance companies.

If your insurance company is one of the few that they are unable to bill (e.g. out of state HMO’s, international insurance plans, Medicaid, Medicare), charges will be collected at the time of visit. For services not covered by insurance (e.g. travel visits), charges will also be collected at the time visit. If you are covered by Cigna or Humana and want them to bill your insurance, you will need to designate them as your primary care provider. The front desk staff can assist with this process.
If for any reason you do NOT want them to bill your insurance provider, please let them know and you can pay them directly.

In many situations (and always for students with the University sponsored UnitedHealthcare plan) the amount collected from your insurance provider will be considered FULL PAYMENT; in other situations you may have a remaining balance after the insurance claim has been processed. If you have a remaining balance they will attempt to collect from you, but if they are unable to collect, a hold will be placed on your student account until payment has been received.

A statement of your charges will be available at mystudenthealth.miami.edu. Once charges have been submitted to your insurance company and the claim has been processed, you will receive an explanation of benefits (E.O.B.) from your insurance provider. If you have any remaining balance after your insurance claim has been processed, payments can be made at miami.edu/paystudenthealth.

4. **What if I really don’t want to leave campus to take care of all of this:**

That is your choice, but your records are housed in the system with the Student Health Service, so this is the best and most efficient place to take care of this.

However, you may also seek services at our UM Environmental Health and Safety (UM Employee Health) Office at Dominion Tower, Room #405. There is a FEE associated with vaccines, titers, etc....and they do NOT work with insurance companies, so this would be an out of pocket expense. If you still remain interested in this option, read below.

**Call for an appointment** to ensure they can accommodate you at a time that is convenient: 305-243-3267, Mon – Friday 9AM-2PM. If you call, they may be able to accommodate you at a different time. Take East Elevators to 4th Floor, dial #003 on the main door for entry to the hallway and access to the office.

**COSTS for the following are below:**

- PPD/FLU free of charge
- Varicella Titer $20
- Varicella Vaccine $100 per shot/ 2 shots needed = $200
- Hep B Vaccine Series $55 per vaccine (series of 3 shots $165)
- Hep B Titer $20
- Tetanus Booster Td $30 or one lifetime dose of Tdap $60
- Measles/Mumps/Rubella Titer $50
- MMR Vaccine Booster $60
A. If you obtain new tests or titers at the medical campus UM Employee Health Office, you will be responsible of getting a printed copy of these tests and proof of vaccine or reading. You will need to often send copies of these results with your form, or complete the form with this proof, so keep all your records.

5. I Need to be fitted for a RESPIRATOR MASK: What do I do?

   A. NOTE: If you are seeking a mask fit for EXTERNSHIP or seniors, for residency anywhere OTHER than JMH, then call Sharon in our office. 305-243-7978. This will be coordinated by appointment, and you should expect to get an appointment within about one week, so plan accordingly.

   B. SENIORS: IF you are seeking a mask fit for RESIDENCY HERE AT JMH: please call Christine Nelson at the JMH Employee Health appointment line 786-466-8381

KEEP A COPY Of all your new records. YOU WILL NEED THEM AGAIN IN THE NEAR FUTURE, and you should know where to FIND your information so you don’t have to repeat any testing.

YOU will also need to submit any new testing done outside of the Student Health Center TO the Health Center, in order to update your records (which you will likely need at a later date). Therefore, be sure to bring all copies to Sharon Goni, in the Office of Student Services. She can assist with ensuring that your records are sent.

   If you have any additional questions, please contact Sharon Goni in the Office of Student Services, Room 2155, 305-243-7978, sgoni@med.miami.edu, or Dr. Hilit Mechaber, Associate Dean for Student Services hmechaber@miami.edu

Revised March 2013
UNIVERSITY OF MIAMI
MILLER SCHOOL OF MEDICINE
CONTACT INFORMATION
FOR SENIORS ON EXTERNSHIPS

NAME: ____________________________________________

START DATE OF EXTERNSHIP: ____________________________

END DATE OF EXTERNSHIP: ____________________________

ROTATION: __________________________________________

LOCATION OF EXTERNSHIP:
NAME OF INSTITUTION:
__________________________________________________________

ADDRESS _______________________________________________

ADDRESS _______________________________________________

CONTACT PERSON: ______________________________________

TELEPHONE #: __________________________________________

FAX #: _________________________________________________

EMAIL: _________________________________________________

STUDENT’S EMAIL ADDRESS: _____________________________

STUDENT’S CELL #_____________________________________

STUDENT EMERGENCY CONTACT:

NAME: _______________________________________________

TELEPHONE #: ________________________________________

IMPORTANT NOTICE
Be sure to provide us with all the above information prior to leaving on your externship. Make sure that WE HAVE a copy of your acceptance letter.

Thank you
Office of Student Affairs
Tel: (305) 243-2003 / Fax: (305) 243-8389

10/02/08nc
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.

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 995 “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. Kathleen Schrank, Larry Zaret, and Julio De Pena Batista (as of March 3, 2013)

1. This applies ONLY to medical students who are committed to application to Emergency Medicine Residency Programs and careers in Emergency Medicine.

2. Since JMH does not have an EM Residency Program, each EM applicant must consider their senior schedule and residency application carefully to determine whether to complete our EM rotation plus 1 or 2 EM externships, versus requesting a waiver of our EM rotation in order to spend more time at programs with EM residencies. Since the student will spend an extensive amount of time in EM during residency, it is not recommended that more than 2 four-week EM rotations be done as a senior, but rather that time be spent in other specialties for breadth of experience. However, the school allows credit toward graduation for more than 2 EM rotations should the student wish to do so.

3. It is highly recommended that each student discuss plans with advisors (from UMMSM, from UM/JMH Emergency Medicine faculty, and/or from academic EM faculty at other programs). It is also useful to request a Virtual Advisor in EM through the Society for Academic Emergency Medicine (www.saem.org), which pairs students from schools without EM residency programs with faculty volunteers from EM programs.

4. A current list of U.S. residency programs in Emergency Medicine is maintained on the SAEM website (www.saem.org), which also has externship information for students.

5. If a student decides to complete 2 four-week EM rotations at other institutions that offer EM residency programs, then email Drs. Larry Zaret and Kathleen Schrank to request a waiver of the UM/JMH EM rotation; they will then notify the school of approval. Successful completion of 2 four-week EM externships at sites with EM residency programs PLUS certification in Advanced Cardiac Life Support (UM Gordon CRME course or its equivalent) PRIOR to graduation will be considered as fulfilling the MDR 812 requirement.

6. The student is responsible for scheduling and completing a BLS and ACLS course so that their certification is current in both at the time of graduation. This should be arranged during unscheduled time to avoid conflicting with another elective. Both are available at the UM Gordon CRME at no charge if their courses have room (arrange directly with GCRME via 305-243-6491 or website; don't wait until the last minute). If not, then the student may have to pay fees to take the courses elsewhere. The AHA on-line BLS 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 re-certify by either taking a “hands-on” BLS class again, or doing the AHA on-line 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 assuring that grades from those other 2 EM programs are sent to UMMSM, and that a copy of his/her current ACLS Certification card is submitted to Dr. Schrank and Vinessa Edwards (fax 305-585-0000). Also, please notify Dr. Schrank (kschrank@med.miami.edu) by email with the names of the 2 EM externships that you completed.
RESEARCH CREDIT AND DISTINCTION

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

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<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>
<td>√</td>
<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>√</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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<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)

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