

**FOURTH YEAR (M4)**

*2015-2016 Academic Year*

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| **Rotation/Block** | **Rotation Month** | **Rotation Dates** |
| **1** | June | June 1, 2015- June 26, 2015 |
| **2** | July  | June 29, 2015 – July 24, 2015 |
| **3** | August | July 27, 2015 – August 21, 2015 |
| **4** | September | August 24, 2015 – September 18, 2015 |
| **5** | October | September 21, 2015 – October 16, 2015 |
| **6** | November | October 19, 2015 – November 13, 2015 |
| **7** | December | November 16, 2015 – December 11, 2015 |
| **Holiday Break**December 12, 2015 – January 3, 2016 |
| **8** | January | January 4, 2016 – January 29, 2016 |
| **9** | February | February 1, 2016 – February 26, 2016 |
| **10**  | March | February 29, 2016 – March 25, 2016 |
| **11** | April | March 28, 2016 – April 22, 2016 |
| **Capstone****(requirement for M4)**April 25 – 29, 2016 |

M4 includes one (1) required 4 week Acting Internship, seven (7) required 4 week electives, and three (3) four week rotations to be used for additional electives, research, independent study, residency interviews, make-up or vacation.

Graduation May 20, 2016

**Note: Dates subject to change. Students will be notified.**

**Revised 3/12/15**

**Fourth Year Requirements - 2015-2016**

The fourth year is divided into eleven, four week blocks. All students are required to complete and pass the following eight blocks:

* One Acting Internship in any core area - Family Medicine, Internal Medicine, Neurology, Obstetrics and Gynecology, Pediatrics, Psychiatry, Critical Care, or Surgery (must be taken at affiliated hospitals)
* Electives (all seven electives must be completed; up to four electives may be taken at approved extramural institutions; up to two electives may be used to do a research study; and **no more than four electives may be taken in the same core area**)

The three remaining blocks of the fourth year may be used for other electives, independent study, further research, residency interviews or remediation (if needed). Students finish the fourth year with a Capstone Experience that provides specialty-specific preparation for internship, leadership training and teaching experience.

* **One acting internship**
* *Note: Students cannot repeat the same acting internship at another location. Acting internships can be taken in both an inpatient and outpatient setting.*

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| **Family Medicine** | MDI 8120 1 (FH) | **Neurology** | MDI 8650 1 (FH) MDI 8470 2 (OH)MDI 8470 7 (NCH) |  |  |
| **Internal Medicine****Surgery****Emergency Medicine** | MDI 8340 1 (FH) IPMDI 8340 2 (OH) IPMDI 8340 5 (HCA)MDI 8201 8 (HF) MDI 8600 1 (FH)MDI 8600 2 (OH)MDI 8676 2 (OH)MDI 8490 2 (OH)MDI 8490 7 (NCH)MDC 7710 1 (FH)MDC 7710 2 (OH)MDC 7710 5 (HCA) | **OB/GYN****Pediatrics****Psychiatry****Critical Care**  | MDI 8160 2 (OH)MDI 8162 2 (OH)MDI 8400 1 (FH)MDI 8400 7 (NCH)MDI 8461 1 (FH)MDI 8840 3 (VA)MDI 8835 3 (VA) DOMMMDI 8833 9 (PO)MDI 8247 1 (FH)MDI 8342 8 (HF)MDI 8343 2 (OH)MDI 8344 2 (OH)MDI 8461 1 (FH)MDI 8463 1 (FH)MDI 8463 2 (OH)MDI 8463 7 (NCH) |  |  |
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**Things Every Medical Student Should Know About Electives**

* Students should use the elective program to increase their knowledge in fields which they have particular interest, to correct deficiencies in fields of importance to their overall medical education, and to explore areas of medicine outside the area of special interest to the student**. ELECTIVE TIME IS NOT FREE TIME.** It is to be used productively in amplification of the undergraduate medical education.
* Electives are taken for credit and students must perform satisfactorily in their required and elective work in order to be promoted and recommended to graduate. A program of electives should be selected by consultation with a faculty advisor and must be approved by the Associate Dean for Students.
* Students should discuss their proposed coursework with the faculty member who will supervise and evaluate their performance.
* Students may not be paid for work performed as part of their elective or required coursework for credit. Students may not be supervised by a parent or relative.

**Important:** Most 4th Year Clerkships, Acting Internships, and Electives are available in all blocks. Exceptions are noted with individual course listing. Enrollment limitations are noted in course information.

**Attendance Policy**

**Excused Absences**

Students are expected to attend all scheduled hours of clinical responsibilities and didactic instruction. Mandatory clerkship participation requirements and remediation due to absence are determined by the Clerkship Director. The student will be held responsible for any material covered during the excused absence, but will be permitted a reasonable amount of time to complete any missed work. Recognizing that situations may arise which require students to miss time from their clerkship responsibilities, the procedures presented below will be followed when absence is necessary:

* Students on both required and elective rotations in the fourth year will be allowed to miss no more than three full days of responsibilities per rotation as excused absences for the following:

a. Personal illness

b. Family emergency

c. Presentation at professional meetings

d. Residency interviews

* Absences due to illness or family emergencies should be reported to the clerkship director or site director, clerkship coordinator and supervising physician/chief resident on service on the first day of any absence.
* Approval for anticipated leave, including residency interviews and student presentations at professional meetings:
* Requests must be submitted in writing prior to the start of the affected rotation, and at least six weeks in advance of the scheduled event. Requests must be approved by the Clerkship or Elective Director.
* Once approved, the student must inform their supervising physician/chief resident and their team of the anticipated absence.
* Approved student absence form will be completed and forwarded to the Office of Student Affairs by the clerkship coordinator.
* Excused absences exceeding three days will require make-up, the nature of which will be determined by the Clerkship or Elective Director. Examples include the taking of additional call or weekend shift. Make-up time will be scheduled **at the convenience of the site.**
* Excused absences do not include:
* Vacations, personal days or social events, including weddings, graduations or birthdays
* Routine doctor/dental appointments
* Taking Step 2 exam
* Missing Orientation or Capstone or LCT Session

**Unexcused Absences**

* In the event of an absence from the clerkship without permission from the clerkship director, the student will lose 5 points per unexcused absence from their final clerkship grade.
* Additional remediation may be required at the clerkship director’s discretion (e.g., the taking of extra call).

**Important:** Block 7 (11/16 – 12/11) is a busy time for Residency interviews and may result in you exceeding the number of excused absences allowed in a block. You should take this into consideration when planning your 4th year schedule and consider taking this block off or scheduling a rotation that can work around the amount of time needed to attend interviews.

**Scheduling Away Electives and Independent Studies**

**Away Electives**

* All students are encouraged to participate in at least one away rotation.
* Students may not participate in more than **four** away electives.
* All petitions for away rotations must include a description of the course, including schedule, duties, learning outcomes, etc.
* It is the student’s responsibility to provide their supervising faculty with an evaluation for each away rotation and to have the supervising faculty complete it and turn in to the Registrar’s Office in a timely manner. Students will not receive a grade for an away rotation in which no evaluation is completed.

**VSAS Institution**

VSAS® is an AAMC application designed to streamline the application process for senior "away" electives at U.S. LCME medical schools and independent academic medical centers that are members of the Council of Teaching Hospitals and Health Systems (COTH). The service requires only one application for all participating institutions, effectively reducing paperwork, miscommunication, and time. VSAS also provides a centralized location for managing offers and tracking decisions.

**How to Apply to VSAS**

Once you have determined that you will be using VSAS, the following steps outline the application process. Note that hosts typically begin accepting applications in March for the upcoming academic year.

**Step 1. Receive VSAS Authorizations**

You will be emailed VSAS login instructions once the UCF COM Registrar has issued authorizations. Each student will be issued 10 authorizations.

* Each elective request requires an authorization, even if you have multiple requests at the same institution or for the same elective but during a different block (i.e., a request for Cardiology at Vanderbilt during block 3 and a request for Cardiology at Vanderbilt for block 5 requires two separate authorizations).
* When they are issued, you will receive a "VSAS: New User Instructions" e-mail containing the information you need to sign in to VSAS.

**Step 2. Complete Application Profile**

Provide contact information and the dates on which you have *or will* have finished your core clerkships.

**Step 3. Review Host Institution Information**

Review the VSAS *Institutions* tab for host‐specific requirements and dates on which applications will be accepted.

**Step 4. Upload and Assign Documents**

Upload and assign required documents to a specific host institution or elective request.

* Photo, CV, and immunization records are often required
* Additional documentation is required by some hosts
* Transcripts may only be uploaded by the COM

**Step 5. Search for Electives**

Browse electives by keyword, specialty, institution name, state, and/or elective start month. Save electives to apply for later.

**Step 6. Apply to Electives**

Select saved electives (with preferred dates) for which you are applying and ‐

* arrange elective requests in order of preference
* review, edit, and upload required documentation
* pay VSAS fees and submit your application
* The COM will then add additional data about you before ‘releasing’ your applications to host institutions.

**Step 7. Track Offers**

Review application statuses and host decisions through the VSAS *Tracking* tab.

* Accept or decline offers before offers expire
* Withdraw pending applications, or drop accepted offers, if necessary

**VSAS Tip. Read E‐Mails**

Make sure the e‐mail address on your *Application* tab is current, as you will receive e‐mails notifying you of:

* offers for electives and offers soon to expire
* electives applied for but which are not available
* scheduling conflicts between scheduled electives

Once approved by the host institution, students will need to complete the Petition for Special Clinical Study Credit for Extramural Clerkship form and have approved in order to receive credit for the elective.

**VSAS 2014-2015 Host Institutions\***

**Northeast Institutions**

Albany Medical College

Albert Einstein COM

Albert Einstein Medical Center

Baystate Medical Center

Boston University

Cooper Medical School of Rowan Univ.

Danbury Hospital

Drexel University

Geisinger Health System

Geisel School of Medicine at Dartmouth Univ.

George Washington Univ.

Georgetown University

Hofstra North Shore – LIJ SOM

Howard University

Icahn School of Medicine at Mount Sinai

Lehigh Valley Health Network

Maimonides Medical Center

NIH Clinical Center

New York Medical College

New York Presbyterian Healthcare System

Pennsylvania State University

Rutgers New Jersey Medical School

Rutgers, Robert Wood Johnson Medical School

State University of New York at Buffalo

State University of New York Downstate

State University of New York Upstate

Staten Island Univ. Hospital

Stony Brook University

Temple University

Tufts University

United Health Services Hospitals (Wilson Med. Ctr)

University of Connecticut

University of Maryland

University of Massachusetts

University of Rochester

University of Vermont

Weill Cornell

Winthrop University Hospital

Yale University

**Western Institutions**

Cedars‐Sinai Medical Center

Kaiser Foundation Hospital

Kaiser Permanente Southern California

Keck School of Medicine, Univ of Southern CA

Loma Linda University

Maricopa Medical Center

Oregon Health & Science University

University of Arizona

University of California, Davis

University of California, Irvine

University of California, San Diego

University of California, San Francisco

University of Colorado Denver

University of Hawaii

University of New Mexico

University of Nevada

University of Utah

University of Washington

**Central Institutions**

Akron Children’s Hospital

Akron General Medical Center

Cleveland Clinic

Cook County Hospital

Creighton University

Indiana University

Good Samaritan Hospital (TriHealth)

Loyola University Chicago

MetroHealth System

Michigan State University

Northwestern University, Feinberg SOM

Ohio State University

Regions Hospital

Rush Medical College

Saint Louis University

Southern Illinois University

Summa Health Center

University of Chicago, Pritzker SOM

University of Cincinnati

University of Illinois, Peoria

University of Kansas

University of Michigan

University of Minnesota

University of Missouri ‐ Columbia

University of Missouri ‐ Kansas City

Washington University in St. Louis

Wayne State University

Western Michigan University

William Beaumont Hospital System

Wright State University

**Southern Institutions**

Baylor University COM

Baylor University Medical Center

Brody SOM at East Carolina University

Duke University

Emory University

Florida Hospital Orlando

FIU Herbert Wertheim COM

Medical College of Georgia at GHSU

Medical University of South Carolina

Mercer University

Miami Children’s Hospital

Orlando Health

Ochsner Health System

Quillen College of Medicine

Texas A&M Health Science Center

Texas Tech Univ. Health Sciences Center

TTUHSC Paul L. Foster SOM

Tulane University

University of Arkansas

University of Florida

University of Kentucky

University of Louisville

University of Miami Miller

University of Mississippi

University of North Carolina at Chapel Hill

University of Oklahoma

University of South Carolina

University of South Florida ‐ Morsani COM

University of Tennessee

University of Texas Houston

University of Texas HSC, San Antonio

University of Texas MB, Galveston

University of Texas Southwestern

University of Virginia

Vanderbilt University

Wake Forest University

West Virginia University

***\* New hosts will participate in 2015 ‐ view the complete list at www.aamc.org/vsas in January!***

**Non-VSAS Institution**

Students may also apply for away electives at non-VSAS institutions. It is entirely the student’s responsibility to locate and apply for these electives. Once approved by the host institution, students will need to complete the Petition for Special Clinical Study Credit for Extramural Clerkship form and have approved in order to receive credit for the elective.

**Independent/Research Studies**

* The opportunities for use of elective time in the fourth year include research in clinical or basic science areas of UCF College of Medicine or other institutions. The flexibility of fourth year curriculum gives students maximum opportunity for individual development.
	1. A student may do no more than **two** research studies.
	2. Students may be registered for the same independent or research study for no more than two rotations.
* Independent/Research Studies must be supervised by a UCF faculty member. Students should work with the Faculty Supervisor to determine the topic of study and the deliverable.
* Students must complete a Petition for Independent/Research Study prior to the start of the rotation. The petition must include a description of the study or research being conducted, and must be signed by the faculty supervisor, the Assistant Dean for Medical Education, and the Associate or Assistant Dean for Students. Failure to turn in the Petition for Independent/Research Study by the deadline may result in No Credit.

**Making Changes to Your Schedule**

* Enrollment in a required course or elective is considered a commitment. Changes must be requested **at least 6 weeks** in advance prior to the beginning of the elective. After 6 weeks, all requests to add/drop/withdraw from an elective will require the approval of the Associate Dean for Students.
* Fourth year students’ course changes must be made far enough in advance to:
1. Notify Instructor of Record;
2. Allow call schedules to be modified; and
3. Complete any training and/or screenings required by the site

**\*\*Changes must be made at least 6 weeks in advance prior to the beginning of the elective. No change may be made within 6 weeks of the beginning of the elective or after the elective has begun, except under extenuating circumstances and only with the approval of the Associate Dean for Students.**

* All requests for schedule changes should be emailed to Alisha Corsi in the M.D. Registrar’s Office at alisha.corsi@ucf.edu. Students should never make schedule requests directly with the preceptor.
* When availability of a course is confirmed by Alisha Corsi and a request for a change has been approved, students must complete a Clerkship/Elective Change Request form and have it signed by their Academy Leader. The completed form must be turned in to the M.D. Registrar’s Office prior to the start of the rotation.
* No updates or changes to a student’s registration will be made in OASIS until a completed Clerkship/Elective Change Request form has been received by the Registrar’s Office. Failure to turn in a Clerkship/Elective Change Request form on time may result in No Credit. Students may not report to a site until their registration has been updated, as you must be registered in order for liability coverage to be in effect.

**\*\*Under NO circumstances will changes be approved for requests made less than 30 days before the start of a rotation for the following courses: Any Acting Internship, any Psychiatry courses offered at the Veteran’s Hospital.**

**Course Key**

**Acting Internships, Clerkships, and Elective Training Locations**

* **(UCF COM)** University of Central Florida College of Medicine - A
* **(FH)**  Florida Hospital – 1
	+ - * *Florida Hospital Orlando - 1*
			* *Florida Hospital East Orlando - 2*
			* *Florida Hospital Altamonte - 3*
			* *Florida Hospital Celebration Health - 4*
			* *Winter Park Memorial Hospital - 5*
			* *Florida Hospital Flagler - 6*
			* *Florida Hospital Kissimmee - 7*
* **(OH)**  Orlando Health – 2
* *Orlando Regional Medical Center - 1*
* *Arnold Palmer Hospital for Children - 2*
* *Winnie Palmer Hospital for Women & Babies - 3*
* *M.D. Anderson Cancer Center - 4*
* **(VA)** Veterans Hospital and various VA sites in Florida -3
* **(CFFHC)** Central Florida Family Health Center -4
* **(HCA)** Hospital Corporations of America - 5
* **(PV)** Pasadena Villa -6
* **(NCH)** Nemours Children’s Hospital -7
* **(HF)** Health First - 8
* **(PO)** Private physician’s office, clinic or externship location -9
* **(SCG)** State/County/Municipal Government Agencies – B
* **(HoF)** Heart of Florida – C
* **(FLG)** Flagler Hospital – D

The first two digits in the course sections denote specific site location:

(Example, MDE 8336 **11**xx Florida Hospital Orlando **or** MDE 8336 **24**xx M.D. Anderson Cancer Center)

**Course Key**

**Structure of Special Studies Clinical/Research @ UCF COM**

**Special Studies/Research/Independent Study** **MDE 8900**

* The Independent Study/Research elective permits 4th year medical students to pursue, under the sponsorship of UCF College of Medicine faculty members, areas of study/research that are not included among regular elective offerings. Arrangements for these electives are made between the student and the faculty member; they will require administrative approval prior to registration.

**Structure of Visiting Elective/Externship Outside of UCF COM**

**Extramural Clerkship** **MDX 8011**

* This elective offers students the opportunity to gain extramural experience in approved programs to gain further training and experience in “off-campus” settings—hospital, medical schools or other practice areas.

**Structure of Special Studies Clinical/Research for Away Clerkship**

**Special Studies/Research/Independent Study** **MDX 8900**

* The Independent Study/Research elective permits 4th year medical students to pursue areas of study/research outside of UCF. Arrangements for these electives are made between the student and the away location supervising faculty member. Students must obtain administrative approval prior to registration.

**Structure of Special Clinical Study Credit for International Clerkship**

**Special Studies/Research/Independent Study** **MDE 8072**

* Students interested in completing an elective outside of the United States should contact the Office of Student Affairs. Additional information may be available from the Director of International Health Programs.

**Course Key**

**Structure of Directed Readings/Directed Independent Study**

**Directed Reading/Directed Independent Study** **MDE 8900**

* Individual study by students under the direction of a faculty member and with the approval of the Assistant Dean of Medical Education and the Associate Dean for Students. Topics vary and will be selected on an individual basis.

**ACTING INTERNSHIPS**

**Acting Internship**

**Acting Internship in Emergency Medicine**

**Clerkship Director: Dr. Jay G. Ladde & Dr. Jose Rubero**

**MDC 7710 1 MDC 7710 2**

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| **Full-time (4 weeks)****(FH)****Grading Basis: ABCF****First Day: Students will be notified via email from Ms. Bradford indicating first day reporting instructions****Primary Faculty Supervisor: TBA*****Contact person: Katherine Bradford, Program******Coordinator,*** ***Katherine.Bradford@flhosp.org*****Maximum Enrollment: Varies each block** | **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)** **Grading Basis: ABCF****First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation****Primary Faculty Supervisor: TBA*****Contact person: Carrie Chapman******Carrie.chapman@Orlandohealth.com*****Maximum Enrollment: Varies each block** |

**MDC 7710 5**

**Full-time (4 weeks)**

**(HCA)**

**Grading Basis: ABCF**

**First Day: Students should contact Ann Bravo-Garcia**

**for instructions**

**Primary Faculty Supervisor: Dr. Bethany Ballinger**

***Contact person: Annie Bravo-Garcia, (321) 697-1736;***

***Ann.bravogarcia@hcahealthcare.com***

**Maximum Enrollment: 1-2 per block**

This four week core clerkship introduces the student to initial evaluation, workup, diagnostic ordering and treatment of patients presented to the emergency department

**Objectives:**

1. Students are expected to develop basic diagnostic skills in emergency medicine. These basic skills include performing a detailed history and physical exam, the collection of appropriate cost-effective laboratory data and radiographs, the performance of appropriate procedures, and the formulation of relevant differential diagnosis and treatment plans.
2. Students will develop basic skills and understanding of wound repair, abscess drainage, and ultrasound usage as well as developing skills in central line insertion, lumbar puncture, joint aspiration, slit lamp exam, dental blocks, and airway interventions through either direct supervision by residents, fellow, or attendings or by assisting residents, fellows, and attendings in these procedures.
3. During the 4 week rotation, the students will achieve competence in six areas listed below (based on ACGME core competencies:
* Patient care

**Acting Internship in Emergency Medicine Continued**

* Medical Knowledge
* Practice-based Learning and Improvement
* Interpersonal and communication skills
* Professionalism
* System-based practice

**Acting Internship**

**Acting Internship in Critical Care and Pulmonary Diseases**

**MDI 8247 First Day: Contact Ardith Dell two weeks before the start of**

**Full-time (4 weeks) the rotation for reporting instructions**

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| **(FH)** **Grading Basis: ABCF** **Primary Faculty Supervisor: Dr. Daniel Layish** ***Contact Person: Ardith Dell, Coordinator,*** ***(407) 581 – 1446;*** ***adell@cfpulmonary.com*****Maximum Enrollment: 1-2 per block**  |  |

The critical care clerkship immerses the student in the care of ICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

The University of Central Florida College of Medicine M4 Critical Care Clerkship is designed to make the transition from basic clinical sciences to acute care of patients with life-threatening conditions and who need advanced life support technology and personnel. The clerkship is based in the hospital intensive care unit and the educational experience will come from a multidisciplinary team of hospital-based intensivists, critical care fellows and residents, consulting physician specialists, critical care nurses, pharmacists, respiratory therapists, dieticians, physical therapists, rehabilitation specialists, social workers, other health care professionals, and most importantly, the patients and their families who are cared for by this team. The practice of critical care medicine is based upon sound physiological principles, evidence-based practices, and application of cutting-edge technology, meticulous attention to details, and a compassionate, humanistic approach to severely ill or injured patients and support of their families at their time of crisis.

**Objectives:**

The educational philosophy of the critical care clerkship is to provide the matrix upon which to develop a scientifically sound approach to the management of critically ill patients. Additionally, the program is designed to allow individuals to become familiar with the clinical aspects of critical care and acute care medicine.

1. Show an understanding of a comprehensive approach to patients with multi-system critical illness.
2. List the indications and complications of invasive hemodynamic monitoring.
3. Demonstrate understanding of the techniques for arterial, central venous, and pulmonary arterial catheterization.
4. List and prioritize means for increasing cardiac output.
5. Define, in physiologic terms, the adequacy of cardiac output.
6. Reproduce and utilize the formulae for SVRI, PVRI, LVSWI, RVSWI, CI, SV, CPP and MAP.
7. List major risk factors for acute respiratory failure.
8. Discriminate between oxygenation, ventilation, and airway support.

**Acting Internship**

**Acting Internship in Critical Care**

**MDI 8342 8**

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| **Full-time (4 weeks)****(HF)****Grading Basis: ABCF****First Day: Report to Holmes Regional Medical Center,** **Medical Staff office, Administrative Suite, C Building next to** **Emergency Room first floor @ 8:00 am****Primary Faculty Supervisor: Dr. Peter Pappas** ***Contact person: Tammy Muzzy, (321) 434-1242;*** ***Tammy.Muzzy@health-first.org******; Dr. Pappas,*** ***Peter.Pappas@health-first.org*****Maximum Enrollment: 2 per block (September, November, January, & March only)**  |  |

The critical care clerkship immerses the student in the care of ICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

The University of Central Florida College of Medicine M4 Critical Care Clerkship is designed to make the transition from basic clinical sciences to acute care of patients with life-threatening conditions and who need advanced life support technology and personnel. The clerkship is based in the hospital intensive care unit and the educational experience will come from a multidisciplinary team of hospital-based intensivists, critical care fellows and residents, consulting physician specialists, critical care nurses, pharmacists, respiratory therapists, dieticians, physical therapists, rehabilitation specialists, social workers, other health care professionals, and most importantly, the patients and their families who are cared for by this team. The practice of critical care medicine is based upon sound physiological principles, evidence-based practices, and application of cutting-edge technology, meticulous attention to details, and a compassionate, humanistic approach to severely ill or injured patients and support of their families at their time of crisis.

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5. Define, in physiologic terms, the adequacy of cardiac output.
6. Reproduce and utilize the formulae for SVRI, PVRI, LVSWI, RVSWI, CI, SV, CPP and MAP.
7. List major risk factors for acute respiratory failure.
8. Discriminate between oxygenation, ventilation, and airway support.

**Acting Internship**

**Acting Internship in Medical Critical Care**

**MDI 8344 2**

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| **Full-time (4 weeks)** **(OH)** **Grading Basis: ABCF** **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation****Primary Faculty Supervisor:** ***Dr. Rumi Kahn*** ***Contact Person: Sandra Ingram,*** ***GME Coordinator,*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 2 per block**  |  |

The critical care clerkship immerses the student in the care of ICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

The University of Central Florida College of Medicine M4 Critical Care Clerkship is designed to make the transition from basic clinical sciences to acute care of patients with life-threatening conditions and who need advanced life support technology and personnel. The clerkship is based in the hospital intensive care unit and the educational experience will come from a multidisciplinary team of hospital-based intensivists, critical care fellows and residents, consulting physician specialists, critical care nurses, pharmacists, respiratory therapists, dieticians, physical therapists, rehabilitation specialists, social workers, other health care professionals, and most importantly, the patients and their families who are cared for by this team. The practice of critical care medicine is based upon sound physiological principles, evidence-based practices, and application of cutting-edge technology, meticulous attention to details, and a compassionate, humanistic approach to severely ill or injured patients and support of their families at their time of crisis.

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4. List and prioritize means for increasing cardiac output.
5. Define, in physiologic terms, the adequacy of cardiac output.
6. Reproduce and utilize the formulae for SVRI, PVRI, LVSWI, RVSWI, CI, SV, CPP and MAP.
7. List major risk factors for acute respiratory failure.
8. Discriminate between oxygenation, ventilation, and airway support.

**Acting Internship**

**Acting Internship in Surgical Critical Care**

**MDI 8343 2**

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| --- | --- |
| **Full-time (4 weeks)** **(OH)** **Grading Basis: ABCF** **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation****Primary Faculty Supervisor:** ***Dr. Joseph Ibrahim*** ***Contact Person: Sandra Ingram,*** ***GME Coordinator,*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 per block**  |  |

The critical care clerkship immerses the student in the care of ICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

The University of Central Florida College of Medicine M4 Critical Care Clerkship is designed to make the transition from basic clinical sciences to acute care of patients with life-threatening conditions and who need advanced life support technology and personnel. The clerkship is based in the hospital intensive care unit and the educational experience will come from a multidisciplinary team of hospital-based intensivists, critical care fellows and residents, consulting physician specialists, critical care nurses, pharmacists, respiratory therapists, dieticians, physical therapists, rehabilitation specialists, social workers, other health care professionals, and most importantly, the patients and their families who are cared for by this team. The practice of critical care medicine is based upon sound physiological principles, evidence-based practices, and application of cutting-edge technology, meticulous attention to details, and a compassionate, humanistic approach to severely ill or injured patients and support of their families at their time of crisis.

**Objectives:**

The educational philosophy of the critical care clerkship is to provide the matrix upon which to develop a scientifically sound approach to the management of critically ill patients. Additionally, the program is designed to allow individuals to become familiar with the clinical aspects of critical care and acute care medicine.

1. Show an understanding of a comprehensive approach to patients with multi-system critical illness.
2. List the indications and complications of invasive hemodynamic monitoring.
3. Demonstrate understanding of the techniques for arterial, central venous, and pulmonary arterial catheterization.
4. List and prioritize means for increasing cardiac output.
5. Define, in physiologic terms, the adequacy of cardiac output.
6. Reproduce and utilize the formulae for SVRI, PVRI, LVSWI, RVSWI, CI, SV, CPP and MAP.
7. List major risk factors for acute respiratory failure.
8. Discriminate between oxygenation, ventilation, and airway support.

**Acting Internship**

**Acting Internship in Pediatric Critical Care**

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| **MDI 8463 1****Full-time (4 weeks)****(FH) Florida Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Stacy McConkey,** **stacy.mcconkey.md@flohosp.org*****Contact person: Francisco Hernandez, (407) 303-2888;******francisco.hernandez@flhosp.org*****Maximum Enrollment: 1 each block** | **First Day: Report to 5th floor PICU @ 6:30 am** |

**MDI 8463 2****Must be scheduled through VSAS****Full-time (4 weeks)** **(OH)** **Grading Basis: ABCF** **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation****Primary Faculty Supervisor:** ***Dr. Joseph Ibrahim*** ***Contact Person: Sandra Ingram,*** ***GME Coordinator,*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: Varies by block** **MDI 8463 7 First Day: Report to Nemours Children’s Hospital,****Full-time (4 weeks) PICU, 3rd floor @ 9:00 am**

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| **(NCH) Nemours Children’s Hospital** **Grading Basis: ABCF** **Primary Faculty Supervisor: Dr. Heather Fagan,** **heather.fagan@nemours.org*****Contact Person: Tiffany Oreste,*** ***tiffany.oreste@nemours.org******;*** ***Dr. Heather Fagan,*** ***heather.fagan@nemours.org*****Maximum Enrollment: 1 per block**  |        |

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Program Overview:

Students will rotate in the state of the art Pediatric Intensive Care Unit (PICU) and Pediatric Special Care Units at Florida Hospital South. Students will work under the supervision of the pediatric critical care attending and the PICU team to care for children in critical or serious condition.

**Acting Internship in Pediatric Critical Care continued**

**Objectives:**

* Understand the scope of established and evolving biomedical, clinical, epidemiological and social-behavioral knowledge needed by a physician caring for critically ill children; demonstrate the ability to acquire, critically interpret and apply this knowledge in pediatric critical care.
* Succinctly present an ICU patient on rounds, formulate a coherent assessment of a patient’s problems and present an appropriate therapeutic/diagnostic plan. Further, effectively communicate this plan to nurses, respiratory therapists, and sub-specialists/ consultants.
* Recognize and appropriately respond to acute life threatening events. The student should observe and be able to describe the necessary skills to resuscitate and describe the initial stabilization of the critically ill child particularly airway management, volume replacement and resuscitative pharmacology.
* Demonstrate competence in basic airway skills (appropriate implementation of oxygen delivery devices and demonstration of bag-mask ventilation) and placement of peripheral intravenous catheters.

Advanced airway skills (intubation) and advanced intravenous access skills (central venous catheter placement and arterial line placement) may be observed.

* Understand the pathophysiology and treatment of common medical disorders in the PICU: respiratory failure (apnea, bronchiolitis, asthma, ARDS), shock (septic, cardiogenic, hypovolemic), neurologic critical care (status epilepticus, traumatic brain injury, brain death), renal failure, as listed on the Pediatric Critical Care Required Encounters list
* Understand the different monitoring techniques in pediatric critical care: vascular hemodynamics, intracranial devices, blood pressure, arterial saturations, end-tidal CO2, and a variety of common laboratory tests.
* Utilize common diagnostic tests and imaging studies appropriately in the pediatric intensive care unit, obtaining consultation as indicated for interpretation of results.
* Understand pediatric critical care pharmacology: inotropes and vasoactive agents, basic antibiotic therapy, common sedatives and analgesics, drug pharmacokinetics and monitoring of side effects.
* Understand techniques for enteral and parenteral nutritional supplementation in the PICU patient.
* Understand the ethical and legal issues which emerge during the care of critically ill and/or dying children (do not resuscitate orders, withholding and withdrawing life support, right of patients).
* Understand the importance of psychosocial issues related to the care of critically ill or dying children. Learn to provide support and deliver difficult information to the family of a critically ill child. Recognize the health care challenges of a child with a critical or chronic disease. Appraise the impact of a child’s critical illness on his or her family.
* Apply evidence based principles of pediatric critical care to compare and contrast available treatment options with regard to efficacy, risk, benefit, cost-effectiveness.

**Acting Internship**

**Acting Internship in Family Medicine**

**Clerkship Directors: Sergio Salazar, M.D.**

**MDI 8120 1**

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| **Full-time (4 weeks)****(FH) @ Winter Park Memorial Hospital****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Carlos Dumois*****Contact person: Michelle Stevenson, (407) 646-7469;*** ***Michelle.stevenson@flhosp.org*****Maximum Enrollment: 1 each block (None in July)** | **First Day: Report to 133 Benmore Drive, Suite 201, Winter Park, Fl 32792 @ 8:15 a.m where Jacque Malcolm will meet you and give you your welcome packet.** |

This four week experience will provide advanced clinical training in the care of patients of all ages in the hospital and clinic settings.

**Objectives:**

1. Demonstrate ability to assess and care for ill hospitalized adult patients, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**Acting Internship**

**Acting Internship in Internal Medicine**

**Clerkship Directors: Sergio Salazar, M.D.**

**MDI 8201 8**

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| **Full-time (4 weeks)****(HF) Melbourne Internal Medicine Associates****Grading Basis: ABCF****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

Goals are advanced training and responsibility in the care of adult medical patients in the inpatient (hospital and long term care facilities) and outpatient settings. The student will assume intern level responsibility for his/her patients and will care for 3-5 patients at one time while as an inpatient or evaluate approximately four patients per ½ day session in the outpatient clinic setting(s).

**Objectives:**

1. Demonstrate ability to assess and care for ill hospitalized adult patients, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**Acting Internship**

**Acting Internship in Internal Medicine**

**Clerkship Directors: Sergio Salazar, M.D.**

**MDI** **8340 1 MDI 8340 2**

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| **Full-time (4 weeks)****(FH)****Grading Basis: ABCF****First Day: Contact the senior resident on your schedule to determine first day meeting location****Primary Faculty Supervisor: Dr. Victor Herrera*****Contact person: Stephanie Mclaughlin, Internal Medicine Residency Coordinator, (407) 303-7331;*** ***stephanie.mclaughlin@flhosp.org*****Maximum Enrollment: 2 each block** | **Full-time (4 weeks)****(OH)****Grading Basis: ABCF****First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation****Primary Faculty Supervisor: Dr. Alex Rico*****Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 2 each block** |
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**MDI 8340 5**

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| **Full-time (4 weeks)****(HCA/VA)****Grading Basis: ABCF****First Day: Student should contact Ann Bravo-Garcia****for instructions****Primary Faculty Supervisor: Dr. Ghaffar*****Contact person: Ann Bravo-Garcia, (321) 697-1736;*** ***Ann.bravogarcia@hcahealthcare.com*****Maximum Enrollment: 1 each block** |  |

Goals are advanced training and responsibility in the care of acutely ill hospitalized adult patients. The student will assume intern level responsibility for his/her patients and will care for 3-5 patients at one time.

**Objectives:**

1. Demonstrate ability to assess and care for ill hospitalized adult patients, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**Acting Internship**

**Acting Internship in Obstetrics and Gynecology**

**Clerkship Director: Aileen Caceres, M.D.**

**MDI 8160 2**

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| **Full-time (4 weeks)****(OH) Winnie Palmer Hospital for Women & Babies****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Lori Spreitzer*****Contact person: Sandra Ingram, GME Coordinator******(321) 841-3715;*** ***sandra.ingram@orlandohealth.com*****Maximum Enrollment: 1 each block (except July)** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The student will spend two weeks functioning as a Sub-Intern and team member in the care of obstetrical patients and two weeks as a Sub-Intern and team member in the care of gynecological patients at Winnie Palmer Hospital. This course will broaden the student’s clinical experience in obstetrics and gynecology, including exposure to both inpatient and ambulatory settings.

**Objectives**:

General Objectives

1. As an integral member in the patient-care team, the student will actively participate in gynecologic surgical procedures and Labor and Delivery activities.
2. This AI will enhance the student’s patient care skills, including the ability to perform proper and complete histories and physical exams, formulate differential diagnoses, and make clinical decisions for both obstetrical and gynecological patients.
3. The student will have exposure, training, and experience in managing pregnant patients in the antepartum, intrapartum, and postpartum periods.
4. The student will understand basic principles and clinical applications of obstetrical ultrasound.
5. The student will augment her/his surgical skills.
6. Students are expected to take overnight and/or weekend call during the rotation. Numerous didactic conferences are held during the rotation.

Obstetrics Objectives

* 1. History skills: Gather the important information that is needed for the pregnancy history and complete a history in the medical record for at least 5 patients.
	2. Physical examination skills: Complete a pertinent physical examination for the evaluation of pregnant patients. The student should demonstrate the ability to perform this pertinent physical examination while being observed by at least one attending or resident.
	3. Knowledge/diagnostic and treatment skills: Know about common medical and surgical conditions affecting the fetus and mother.
	4. Procedural skills: Observe and assist in common procedures including vaginal delivery, operative vaginal deliver (including caesarian sections), ultrasound, amniocentesis.
	5. Attitude: Demonstrate professional responsibility in working as a team member with other members of the Ob/Gyn care team, patients, and families.

**Acting Internship in Obstetrics and Gynocology –Continued**

**Clerkship Director: Aileen Caceres, M.D.**

Gynecological Objectives

1. To gain experience in the diagnostic and therapeutic approaches for various gynecologic conditions.
2. To expand basic knowledge with reading materials and case discussions as well as direct patient care.
3. To enhance interpersonal skills and professional conduct in female patient encounters.
4. To hone procedural skills.
5. To develop triage skills, indications for inpatient versus outpatient management and referral for specialty or subspecialty consultation.
6. To receive mentorship and/or research opportunities in the specialty.

**Acting Internship**

**Acting Internship in Gynecology Oncology**

**Clerkship Director: Aileen Caceras, M.D.**

**MDE 8162 2**

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| **Must be scheduled through VSAS** **Full-time (4 weeks)****(OH) Winnie Palmer Hospital for Women & Babies****Grading Basis: ABCF****Primary Faculty Supervisors: Dr. Veronica Schimp & Dr. Alan Gordon*****Contact person: Sandra Ingram, GME Coordinator,******Sandra.ingram@orlandohealth.com*****Maximum Enrollment: 1 each block (except July)** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

Experience on a gynecologic service, including operating room, inpatient and outpatient care; team management approach to gynecologic cancer patients, treatment and follow-up of invasive gynecologic malignancies, etiology and risk factors for gynecologic neoplasias, pre-and post-operative evaluation and treatment of gynecologic neoplasias. Research project encouraged. This course is designed to provide the student with in-depth exposure and experience in gynecologic oncology. The student will be an integral part of the team and as such will be involved in the assessment, management and follow-up of patients admitted to the GYN oncology service. The student will participate in daily work rounds with house staff and attending faculty, teaching rounds where patients are presented and treatment plans developed. In addition to participation in the surgical management of women with gynecologic malignancies, students will also be exposed to the outpatient setting, including colposcopy and outpatient management of oncology patients.

**Objectives:**

1. History skills. Gather the important information that is needed for Gyn/oncology history and complete a history in the medical record for at least five patients.
2. Physical examination skills. Complete a pertinent physical examination for the evaluation of gynecologic cancers on at least five patients. The student should demonstrate the ability to perform this pertinent physical examination while being observed by at least one attending or resident.
3. Knowledge/diagnostic and treatment skills: Know about common oncology conditions.
4. Procedural skills. Observe procedures, such as cervical colonization, colposcopy/LEEP, hysterectomy, hysteroscopy and laparoscopy.
5. Attitude: Demonstrate professional responsibility in working as a team member with other members of the Gyn/Oncology care team, patients and families.

**Acting Internship**

**Acting Internship in General Pediatrics, Inpatient**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDI 8400 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Stacy McConkey,** **stacy.mcconkey.md@flhosp.org*****Contact person: Francisco Hernandez, (407) 303-2888;******francisco.hernandez@flhosp.org*****Maximum Enrollment: 1 each block** | **First Day: Meet with the residents in the signout room on the 6th floor @ 6:30 am** |
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**MDI 8400 7**

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| **Full-time (4 weeks)****(NCH) Nemours Children’s Hospital****Grading Basis: ABCF** **Primary Faculty Supervisor: Dr. Robert Karch,** **Robert.karch@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;******Tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block** | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

This elective is designed to acquaint the student with the management of acute pediatric illness in the hospital setting. The student will learn to manage the severely ill child, including fluid and electrolyte management, ordering and interpretation of appropriate diagnostic tests and procedures, as well as strategies to manage the complexities of dealing with the hospitalized child and the psychosocial issues surrounding the hospitalization. The student will also learn to become an effective part of the health care team.

**Objectives:**

1. Demonstrate proficiency in the management of the severely ill child, including fluid and electrolyte management.
2. Order and interpret appropriate diagnostic tests and procedures.
3. Demonstrate proficiency in the performance of basic pediatric procedures.
4. Demonstrate proficiency in counseling ill children and their families, including patient education.
5. Describe strategies for managing the complexities of dealing with the hospitalized child and psychosocial issues surround the hospitalization.
6. Demonstrate effective collaboration skills in a health care team.

**Acting Internship**

**Acting Internship in Pediatric Neurology and Epilepsy**

**Clerkship Director: Michael Bellew, M.D.**

**MDI 8470 2**

**Must be scheduled through VSAS**

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| **Full-time (4 weeks)****(OH) Orlando Health****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Ronald Davis*****Contact person: Kay Taylor, ARNP******(407) 448-2253;*** ***ktaylor@pediatricneurologyPA.com*** ***&*** ***majRDavis@aol.com*****Maximum Enrollment: by permission only** | **First Day: Report to Neurology and Epilepsy Center of Central Florida, 7485 Sandlake Commons Blvd., Orlando, Fl 32819 @ 8:45 am** |

**MDI 8470 7**

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| **Full-time (4 weeks)****(NCH) Nemours Children’s Hospital** **Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Richard Finkel,** **Richard.finkel@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block** | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

Evaluate the treatment of inpatient & outpatient Pediatric Neurology patients, with exposure to acutely ill patients in ICU to evaluations of Epilepsy/Seizures, Movement Disorders, and Headache. Exposure and instruction in reading and interpreting EEGs, MRIs, CTs, and Long Term EEGs. Exposure to pre-surgical Epilepsy evaluations and outcome reflections in OR.

Objectives:

* 1. Obtain appropriate/focused Neurologic history.
	2. Provide complete Neurologic & Mental Status Exam.
	3. Evaluate and form Treatment Plan for new and follow up patients both inpatient & outpatient settings, including ICU patients.
	4. Learn basic EEG reading/interpretation
	5. Provide support via phone to ER & around region inpatients who present with Neurologic issues.
	6. Learn how to select and work up patient for Epilepsy surgery.

**Acting Internship**

**Acting Internship in Neonatal ICU**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDI 8461 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital****First Day: Report to 2nd floor NICU @ 6:30 a.m.****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Stacy McConkey,** **stacy.mcconkey.md@flhosp.org*****Contact person Francisco Hernandez, (407) 303-2888;******francisco.hernandez@flhosp.org*****Maximum Enrollment: 1 each block** |  |

This elective is designed to expose the student to normal physiology and a wide variety of diseases that affect the term and pre-term infant. Patient care activities will take place in the Neonatal Intensive Care unit, where the student will learn to become an integral part of the healthcare team. Skills learned during the rotation will include evaluation, diagnosis and treatment of the critically-ill newborn, proper use of ventilator management, and understanding the factors that contribute to a “high-risk” pregnancy. The student will also learn counseling skills and discussion of ethical issues that arise in the care of the critically-ill newborn.

**Objectives:**

1. Demonstrate proficiency in healthcare principles for the care of the critically-ill newborn (e.g., evaluation, diagnosis, and treatment).
2. Explain or demonstrate the proper use of ventilator management.
3. List the factors that contribute to a “high-risk” pregnancy.
4. Demonstrate proficiency in assisting in the performance of specialized procedures.
5. Demonstrate counseling skills in care conferences with parents regarding their critically-ill newborn.
6. Discuss ethical issues that arise in the care of the critically-ill newborn.
7. Demonstrate team skills in the neonatal intensive care unit.

**Acting Internship**

**Acting Internship in Psychiatry**

**Clerkship Director: Martin Klapheke, M.D.**

**MDI 8840 3**

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| **Full-time (4 weeks)****(VA)****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Karl Isaacs*****Contact person: Dr. Silvana Montautti, (407) 599-1599 x 7402;*** ***silvana.montautti@va.gov******; & Andrea Gelber******Andrea.gelber@va.gov*****Maximum Enrollment: 1 each block** | **First Day: Report to Lake Baldwin VA Triage on the 4th floor @ 8:00 a.m. Students should email Andrea Gelber get computer access codes.** |

Increased level of responsibility for clinical assessment and treatment planning in Walk-In/Triage Clinic at V.A. Additional responsibilities for teaching 3rd year medical students.

**Objectives:**

1. Perform and document a complete psychiatric diagnostic evaluation in a patient population with a high level of acuity of treatment needs, identifying psychopathology, and developing appropriate biopsychosocial evaluation (laboratory, radiologic, and psychological testing) and treatment plans.
2. Appropriately utilize the indications for psychiatric hospitalization, considering presenting problem and its acuity, risk of danger to patient or others, community resources, and family support; when necessary, help implement the process of involuntary hospitalization.
3. Demonstrate the ability to appraise and assimilate scientific evidence, utilizing relevant databases of psychiatric evidence-based medicine, to improve patient care and teach 3rd year medical students rotating in Psychiatry.
4. Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals and students.

**Acting Internship**

**Acting Internship in Psychiatry V.A. Residential Care at Domiciliary**

**Clerkship Director: Martin Klapheke, M.D.**

**MDI 8835 3**

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| **Full-time (4 weeks)****(VA)****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Karl Isaacs** ***Contact person: Andrea Gelber, Coordinator*** ***Andrea.gelber@va.gov******; & Dr. Silvana Montautti, (407) 599-1599 x 7402;*** ***silvana.montautti@va.gov*****Maximum Enrollment: 1 each block**  | **First Day: Report to Lake Nona DOM @ 8:00am** |

Goal is to assume increased responsibility for Psychiatry intake assessments and treatment planning and delivery for patients in residential care at the V.A. Domiciliary. This patient population has high rates of homelessness, PTSD, and substance-related disorders, and the student will gain valuable clinical experience in these and other psychiatric conditions. No on-call. No weekend duties.

**Objectives:**

1. Perform and document complete psychiatric diagnostic evaluations in a residential care patient population with high levels of homelessness, PTSD, and substance-related disorders, and developing appropriate biopsychosocial evaluation and treatment plans.
2. Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals.
3. Know the clinical features of, and help implement treatment for, intoxication with, and withdrawal from alcohol and drugs.
4. Demonstrate the ability to monitor and document patients’ clinical progress, and alter diagnostic formulation and management in response to changes.

**Acting Internship**

**Not Available: Acting Internship in Advanced Psychiatric Therapies**

**Clerkship Director: Martin Klapheke, M.D.**

**MDI 8833 9**

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| **Full-time (4 weeks)****(PO) La Amistad Behavioral Health Services****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Karl Sieg*****Contact person: Dr. Karl Sieg******(407) 647-0660;*** ***kgsieg@yahoo.com*****Maximum Enrollment: 1 each block (Requires Consent of Instructor)** | **First Day: Report to La Amistad Behavioral Health Services, 1650 Park Avenue N., Maitland, FL 32751, Administrative Offices @ 10:00 a.m.** |

Fourth Year students interested in a Psychiatric career will gain clinical experience with a broad range of patients with treatment-resistant psychiatric conditions: patients will be of all ages (children, adolescents, adults), will be in a continuum of care (residential, day programs, and therapeutic school), and will present with a wide range of psychiatric comorbidities (e.g., mood, psychotic, anxiety, and substance abuse disorders). There will be no formal on call schedule but the student may participate in weekend rounds at Dr. Sieg’s discretion.

**Objectives:**

1. Identify psychopathology, formulate accurate differential and working diagnoses utilizing DSM-IV, assess patients’ strengths and prognosis, and develop appropriate biopsychosocial evaluation and treatment plans for patients with treatment resistant psychiatric comorbidities.
2. Summarize the indications and contraindications, basic mechanism of action, pharmacokinetics and pharmacodynamics, efficacy and cost, common and serious side effects, toxicity, drug-drug and drug-disease interactions, and issues relevant to special populations, of each class of psychotropic medications and demonstrate the ability to select and use these agents in treatment-resistant patient populations.
3. Know the clinical features of, and treatment of, intoxication and withdrawal from alcohol and drugs, as well as relapse prevention techniques.
4. Understand the principles, techniques, and indications for effective psychotherapies and behavioral medicine interventions in patients with treatment-resistant psychiatric conditions.
5. Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals.

**Acting Internship**

**Acting Internship in General Surgery**

**Clerkship Director: Matthew Lube, M.D.**

**MDI 8600 2 MDI 8600 1**

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| **Full-time (4 weeks)****(OH)****Grading Basis: ABCF****First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation****Primary Faculty Supervisor: Dr. Matthew Lube*****Contact person: Sandra Ingram, GME Coordinator******(321) 841-3715;*** ***Sandra.ingram@orlandohealth.com*****Maximum Enrollment: 2 each block** | **Full-time (4 weeks)****(FH)****Grading Basis: ABCF****First Day: Report to 601 E. Rollins St., Ginsberg Tower @ 7:00 am for morning rounds. Contact Julie Talmidge at (407) 227-3500 for exact location. For program orientation report to 2501 N. Orange Ave, Suite 235 @ 8:30 am.****Primary Faculty Supervisor: Dr. Alric Simmonds*****Contact person: Maria Cepero, Residency Coordinator, (407) 303-7203;******Maria.cepero@flhosp.org*****Maximum Enrollment: 1 each block (June, July, August, September only)** |

The University Of Central Florida College Of Medicine M4 Acting Internship in General Surgery will build upon the M3 experience in General Surgery and further explore the workup, diagnosis, treatment and follow up of a wide variety of surgical diseases. Evidence based practices will be emphasized. The student will spend 4 weeks on the General Surgical Service at either Orlando Regional Medical Center or Florida Hospital. Students will be responsible for the evaluation and workup of patients in the emergency room and wards as well as in the outpatient setting. Participation in daily inpatient multidisciplinary ward rounds will be emphasized as well as active participation in a wide array of bedside surgical procedures and major operative interventions under general anesthesia. In house call will be a requirement and will be no more than twice per week and may include weekend call and weekend ward rounds. The student will also be responsible for regular attendance at weekly didactic conferences, grand rounds, journal club conferences and morbidity and mortality conferences and simulator/animal lab experiences when offered.

**Objectives:**

**Medical Knowledge**

1. Be able to discuss the basic evaluation and treatment of benign and malignant breast disease, cutaneous malignancies, abdominal wall hernias, gallbladder disease and other acute inflammatory intra-abdominal conditions.
2. Understand the principles and rationale for management of surgical patients to include the preoperative assessment and management as well as postoperative care. Examples include assessment of patient risk, appropriate selection of patients for surgery, knowledge of anesthetic options, and principles of postoperative pain management and wound care.
3. Understand the general principles of laparoscopy. Examples include the physiologic consequences of pneumoperitoneum.
4. Understand the pathology as it relates to surgery.
5. Be knowledgeable of the anatomy of the abdomen, chest, neck and vascular tree.

**Acting Internship in General Surgery –Continued**

**Clerkship Director: Matthew Lube, M.D.**

6. Be knowledgeable with regard to the physiological basis of the disease process, fluid and electrolytes, nutrition, wound healing and organ function.

**Patient Care**

1. Accurately perform a complete history and physical examination in patients with common surgical problems and present patients to the attending and/or senior resident.
2. Participate in daily rounds and management of inpatients.
3. Demonstrate an understanding of the principles of surgical decision-making.
4. Efficiently utilize and interpret diagnostic laboratory testing. Examples of appropriate tests include serum chemistries, hematological profiles, and coagulation tests.
5. Efficiently utilize and interpret diagnostic radiological tests. Examples of the types of studies include mammography, gallbladder ultrasonography (US), plain film radiology tests and computed tomography (CT).
6. Under appropriate supervision, assist in basic surgical procedures such as: open lymph node biopsy (cervical, axillary, groin), hernia repair (inguinal, femoral, umbilical) excision of small subcutaneous masses, and laparoscopic cholecystectomy and appendectomy.
7. Under appropriate supervision, perform basic surgical procedures such as: Tracheal intubation, placement of venous access devices, removal of cutaneous lesions, routine wound closure.
8. Assist the resident physicians in the discharging of patients, including dictating the discharge summary, writing prescriptions, and ensuring appropriate follow-up.
9. Attend and participate in weekly outpatient clinics. Activities will include examination and evaluation of new patients and postoperative care of established patients.

**Interpersonal and Communication Skills**

1. Develop skill and sensitivity for appropriate counseling and educating patients and their families in a variety of clinical situations.
2. Work effectively with the health care team and/or other professional groups.
3. Effectively and promptly document practice activities.
4. Present all patients in a concise, organized, logical and knowledgeable manner.
5. Exhibit the ability to interact as part of the surgical team.
6. Exhibit honesty, reliability, good communication skills, and appropriate judgment.

**Practice-Based Learning and Improvement**

1. Use books, journal articles, internet access, and other tools available to learn about diseases and treatments.
2. Recognize the importance of lifelong learning in surgical practice by analyzing personal practice outcomes to improve patient care.

**Acting Internship in General Surgery—Continued**

**Clerkship Director: Matthew Lube, M.D.**

**Systems-based Practice**

1. Observe and learn the process of working with nursing, social work, home health, pharmacy, radiology, acquisition of test results, operating room (OR) scheduling, recovery room staff, and discharge planning.
2. Demonstrate an understanding and commitment to continuity of care by development of a patient care plan including timing of return to work and appropriate follow-up.
3. Understand the appropriate utilization of consultations from other surgical and medical specialties in a timely and cost efficient manner to facilitate and enhance patient care.

**Professionalism**

1. The student should demonstrate a high level of initiative and self-motivation during this rotation. They should be well read and prepared prior to any surgical procedure to include clinical knowledge of the patient. They should be dependable in completing assigned tasks. The student should demonstrate professional interpersonal skills when dealing with patients, staff, and other residents and attending physicians.
2. Understand the ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, and informed consent.
3. Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.
4. Demonstrate accountability for actions and decisions.

**Procedures**

Medical students at the M4 level will take on the role as first assistant to senior resident physicians and attendings in the following:

1. Hernia repairs in the groin and umbilicus, demonstrating a basic understanding of the anatomy and surgical repair.
2. Further develop the skills in basic suturing, knot tying, retracting, and assisting during surgery that the student was exposed to during the M3 year.
3. Insertion of central lines, arterial lines, NG tubes, and Foley catheters.
4. Assist and sometimes perform less complicated surgical procedures such as: appendectomy, hemorrhoidectomy, and minor breast procedures.
5. Procedures for melanoma and other benign and malignant skin lesions.
6. Assist and sometimes perform common diagnostic biopsy procedures such as Fine-needle aspiration, Tru-Cut needle biopsy, & excisional biopsies of smaller tumors, e.g. melanoma, breast lesions and superficial lymph nodes.
7. Continue to develop an understanding of the function of surgical instruments (i.e. scalpel, forceps and scissors).
8. Continue to develop an understanding of the use of electro cautery.

**Acting Internship**

**Acting Internship in Pediatric Orthopedic Surgery**

**MDI 8570 First Day: Report to Nemours Children’s Hospital lobby @**

**Full-time (4 weeks) 9:00 am**

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| --- | --- |
| **(NCH) Nemours Children’s Hospital** **Grading Basis: ABCF** **Primary Faculty Supervisor: Dr. John Lovejoy III,****John.lovejoy@nemours.org*****Contact Person: Tiffany Oreste, (407) 567-3876;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

This rotation is intended for the student with interest in Orthopedic Surgery. The student will function at the level of a junior house officer and be expected to perform clinical activities with independence and procedures under direct supervision. The medical student will be expected to be involved in the workup, diagnosis, treatment, and follow up of patients with a wide variety of pediatric orthopedic surgical diseases. The student will be involved with the patient evaluation in the emergency department, outpatient clinic, and inpatient setting. He/She will also be involved in daily inpatient rounds, outpatient clinic, minor procedures, as well as major operations. The student will be expected to present in the pediatric orthopedic surgery education conference weekly, attend grand rounds, journal clubs, and morbidity and mortality conference. Call will be 1 day per week and 1 weekend day per rotation.

**Learning Objectives**

**Patient Care:**

 1. Recognize common pediatric orthopedic surgical problems and emergencies in children.

 2. Recognize orthopedic surgical complications in children.

3. Assist with the workup of new patients in the emergency department, outpatient clinic, and inpatient settings.

4. Assist in preparing patients for discharge.

**Medical Knowledge:**

 1. Learn the fundamentals of basic science in pediatric orthopedic surgery.

 2. Learn pediatric orthopedic common diagnoses and their management.

 3. Read for the operative cases and be prepared for the operating room.

 4. Understand the pathology of pediatric orthopedic disease.

 5. Understand diagnostic tests commonly used in pediatric orthopedic patients.

 6. Practice evidence-based medicine in reviewing the literature.

**Practice-Based Learning and Improvement:**

1. Utilize a pediatric orthopedic surgery textbook and journal articles to study pediatric orthopedic diseases.

**Acting Internship in Pediatric Orthopedic Surgery continued**

2. Document patient care activities in the medical chart in a timely fashion.

3. Utilize electronic educational resources.

**Interprofessional and Communication Skills:**

 1. Learn to communicate well with families and children.

 2. Learn to interact with surgical team.

 3. Work well with other members of the health care team.

**Professionalism:**

 1. Continue life-long learning.

 2. Maintaining confidentiality of patient information.

 3. Maintain sensitivity to others’ cultures, age, gender, and disabilities.

 4. Maintain accountability for personal actions and decisions.

**Systems-Based Practice:**

 1. Learn to communicate appropriately with families under the direction of Faculty.

 2. Learn to communicate with the health care team members about the surgical patients.

**Learning Activities:**

The medical student will present in the weekly pediatric orthopedic surgery education conference. He/She will present in daily inpatient rounds, attend pediatric surgery clinic, and participate in the surgeries. He/She will also practice evidence-based medicine by performing literature searches on the pediatric orthopedic surgery diseases of their patients.

**Acting Internship**

**Acting Internship in Colon and Rectal Surgery**

**Clerkship Director: Matthew Lube, M.D.**

**MDI 8676 2**

|  |  |
| --- | --- |
| **Full-time (4 weeks)****(OH) Orlando Health****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Joseph Gallagher*****Contact person: Sandra Ingram, GME Coordinator******(321) 841-3715;*** ***Sandra.ingram@orlandohealth.com******;*** ***Nancy Joiner,*** ***NJoiner@crcorlando.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The University Of Central Florida College Of Medicine M4 Acting Internship in Colon and Rectal Surgery will build upon the M3 experience in General Surgery and further explore the workup, diagnosis, treatment and follow up of a wide variety of surgical diseases involving the colon, rectum and anus. There will a broad experience caring for patients with inflammatory bowel disease. Evidence based practices will be emphasized. The student will spend 4 weeks on the colon and rectal surgical service. Students will be responsible for the evaluation and workup of patients in the emergency room and wards as well as in the outpatient setting. Participation in daily inpatient multidisciplinary ward rounds will be emphasized as well as active participation in a wide array of bedside surgical procedures and major operative interventions under general anesthesia. Call will occur from home and will occur no more than twice per week and may include weekend call and weekend ward rounds. The student will also be responsible for regular attendance at weekly didactic conferences, grand rounds, journal club conferences and morbidity and mortality conferences and simulator/animal lab experiences when offered.

**Objectives:**

**Medical Knowledge**

1. Learn fundamentals of basic science as they apply to the clinical practice of colorectal surgery. *Examples include in knowledge of anorectal anatomy, normal colonic function, risk factors for colorectal cancer, tumor markers, patterns of metastatic spread, etiology of perirectal abscess, and pathology of inflammatory bowel disease.*
2. Understand GI anatomy and physiology, GI diseases, diagnosis and management and risks and complications of GI endoscopy.
3. Understand the indications and recommendations for surveillance and diagnostic endoscopy.
4. Develop a meaningful differential diagnosis and appropriate diagnostic plan for the evaluation of common colorectal disorders.
5. Develop knowledge of surgical pathophysiology, pharmacology, physiology in diagnosing and managing the patient with colorectal disease.
6. Formulate a minimal diagnostic and treatment plan for colorectal disease requiring surgical intervention.
7. Understanding of the roles of surgery, chemotherapy, and radiation therapy as measures in the total management of the colon cancer patient.

**Acting Internship in Colon and Rectal Surgery—Continued**

**Clerkship Director: Matthew Lube, M.D.**

1. Develop some understanding of the roles of surgery and pharmacology in the total management of patients with inflammatory bowel disease.

**Patient Care**

1. Assist the resident staff with elective admissions to the service; perform an accurate history and physical examination.
2. Assist in the performance of basic surgical procedures such as flexible and rigid proctosopy, anoscopy, anorectal procedures, and routine wound closure.
3. Arrive in the OR prepared for the procedure.
4. Assist in the discharging patients.
5. Attend and participate in continuity of care clinics: examination and evaluation, peri and post-operative care, and surgical consultations under resident and attending supervision.
6. Develop a working knowledge of the common colorectal disorders encountered and managed in the outpatient setting.

**Interpersonal and Communication Skills**

1. Develop skill and sensitivity for appropriate counseling and educating patients and their families in a variety of colorectal disease.
2. Work effectively with others.
3. Effectively and promptly document practice activities.
4. Presents all patients to the attending in a concise, organized, logical and knowledgeable manner.
5. Prepare and present presentations as assigned.

**Practice-Based Learning and Improvement**

1. Use books, journal articles, and internet access to learn about diseases and treatment of patients with colorectal pathology and to support own education.
2. Attend outpatient colorectal clinics at least one day per week.
3. Attend all colorectal and general surgery conferences.

**Systems-based Practice**

1. Effectively communicate with patients, families, nurses, OR techs, anesthesiologist, pharmacy, home health, and other allied health care personnel
2. Learn how types of medical practice and delivery systems differ from one another, including methods and controlling health care costs and allocating resources

**Professionalism**

1. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.
2. Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

**Procedures**

The fourth year medical student will have the opportunity to observe and assist in the performance of flexible sigmoidoscopy and colonoscopy. They will develop a sound knowledge base of the indications and contraindications for various endoscopic procedures. The opportunity will exist to observe and assist on a wide variety of surgical procedures performed under local and general anesthesia.

**Acting Internship**

**Acting Internship Pediatric Surgery**

**Clerkship Director: Matthew Lube, M.D.**

**MDI 8490 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH) Arnold Palmer Hospital for Children****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Donald Plumley*****Contact person: Sandra Ingram, GME Coordinator******(321) 841-3715;*** ***Sandra.ingram@orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

**MDI 8490 7**

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| **Full-time (4 weeks)****(NCH) Nemours Children’s Hospital****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Tamarah Westmoreland,** **tamarah.westmoreland@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block** | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

The University Of Central Florida College Of Medicine M4 Acting Internship in Pediatric Surgery will further expose the student to the workup, diagnosis, treatment and follow up of a wide variety of pediatric surgical diseases. Evidence based practices will be emphasized. The student will spend 4 weeks on the pediatric surgical service. Students will be responsible for the evaluation and workup of patients in the emergency room and wards as well as in the outpatient setting. Participation in daily inpatient multidisciplinary ward rounds will be emphasized as well as active participation in a wide array of bedside surgical procedures and major operative interventions under general anesthesia. In hospital call will be a requirement and will occur no more than twice per week and may include weekend call. The student will also be responsible for regular attendance at weekly didactic conferences, grand rounds, journal club conferences and morbidity and mortality conferences and simulator/animal lab experiences when offered.

**Objectives:**

**Medical Knowledge**

1. Learn the fundamentals of basic science as applied to pediatric surgery. *Examples include embryologic development of the peritoneal cavity, normal rotation and fixation of the abdominal viscera, the physiologic changes of birth, fluid, and electrolyte requirements by weight, normal physiologic parameters in newborns and children, and major physiologic differences of babies and children compared to adults.*
2. Recognize common surgical problems and emergencies in newborns. Examples include: *omphalocele, gastroschisis, imperforate anus, meconium ileus, Hischsprung’s disease, pyloric stenosis, and undescended testis.*

**Acting Internship Pediatric Surgery—Continued**

1. Recognize common surgical problems and emergencies in children. Examples include: *inguinal hernia, hydrocele, intestinal intussusception, and appendicitis.*
2. Utilize appropriate diagnostic laboratory procedures as applied to pediatric surgery patients ex: *arterial blood gas analysis, hematologic profiles and coagulation assessment, hepatic function tests, and serum chemistries.*
3. Utilize appropriate diagnostic imaging studies in infants and children ex: *chest radiographs, abdominal ultrasonography, and contrast studies of the esophagus, stomach, intestine, and colon.*
4. Understand the physiology, fluid and electrolytes, nutrition, pulmonary function and hemodynamics of children.

Understand the pathology of pediatric disease, pediatric anatomy and special pharmacology aspects of pediatrics.

1. Assist in the management of the pediatric trauma patient.

**Patient Care**

1. Recognize surgical complications (i.e. post-operative fever, abdominal pain, airway distress, GI obstruction and bleeding).
2. Assist in the workup of new admissions, including history and physical examination appropriate for age, calculation of fluid requirements, and development of a plan.
3. Assist in the care of all inpatients on the pediatric service, including daily assessment, evaluation of new problems, and preoperative preparation.
4. Assist in the initial evaluation of all consults in the emergency department and on other hospital services.
5. Arrive in the OR prepared for the procedure.
6. Assist in the process of discharging patients.

**Interpersonal and Communication Skills**

1. Work effectively with the health care team and/or other professional groups.
2. Present all patients in a concise, organized, logical and knowledgeable manner.
3. Utilize input from collaborative interactions with those contributing to patient care.
4. Exhibit the ability to interact as part of the surgical team.
5. Exhibits honesty, reliability, good communication skills, and appropriate judgment.

**Practice-Based Learning and Improvement**

1. Use textbooks, journal articles, internet access, and other available tools to learn about diseases of infants and children.
2. Effectively and promptly documents practice activities.

**Systems-Based Practice**

1. Communicate with families, under the supervision and guidance of the senior resident and attending.
2. Communicate with nurses, physician extenders, social workers, and allied health care personnel about the care of pediatric surgery patients.
3. Appreciate the specific needs of infants and children that are different from those of adults.

**Professionalism**

1. Demonstrate respect, compassion and integrity and a dedication to professionalism and life-long learning.
2. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.
3. Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.
4. Demonstrate accountability for actions and decisions.

**Acting Internship**

**Acting Internship in Neurosurgery**

**Clerkship Director: Michael Bellew, M.D.**

**MDI 8650 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital South****Grading Basis: ABCF****Primary Faculty Supervisor: Dr. Michael Bellew****Michael.bellew@ucf.edu*****Contact person: Vanessa Wise******407-303-0204;*** ***vanessa.wise@ucf.edu*****Maximum Enrollment: By permission** | **First Day: Three weeks prior to the start of the rotation email Vanessa Wise and Dr. Bellew to arrange a meeting to discuss individual goals and objectives. Report to Florida Hospital South Angio Lab @ 6:00 am** |

The 4th year student is expected to function at the level of an intern. Responsibilities include initial patient evaluation in the emergency department, clinic, and inpatient setting; continuity of care through inpatient rounding; development of surgical technique; and call / weekend duties averaging 1 in 4. Rounds are conducted daily. Weekly conferences include Neuro ICU Medical Director Rounds, and Tumor Board. The student is expected to write a case report or focused literature review.

**Objectives:**

1. Manage elevated intracranial pressure and status epilepticus.
2. Recognize neurosurgical emergencies involving the brain, spine, and peripheral nerves.
3. Develop a strategy to recommend a “next step” at all time points of patient management.

**ELECTIVES**

**INTER-DEPARTMENTAL**

**ELECTIVES**

**Interdepartmental**

**Not Available: Geriatric Elective**

**Clerkship Director: Mariana Dangiolo, M.D.**

**MDE 8140 3**

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| **Full-time (4 weeks)****(VA)****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Drs. Dangiolo, Golden & Fleming*****Contact person: Mariana Dangiolo, M.D.******(407) 266-1191***; ***mariana.dangiolo@ucf.edu*****Maximum Enrollment: 1 each block** | **First Day: Contact Dr. Dangiolo two weeks before rotation to confirm first day reporting information.** |

The Geriatric elective will provide students the opportunity to select experiences based on their goals/interest. The menu of options will include a comprehensive multi-disciplinary experience in an upscale retirement complex, community living center, home-based primary care program, geriatric primary care clinic, outpatient geriatric evaluation and management clinic, inpatient geriatric service and adult day care experience.

**Objectives:**

1. Evaluate and manage elderly patients in various setting.
2. Identify evidence-based interventions that promote healthy aging.
3. Recognize medications to be avoided or used with caution in older adults.

**ELECTIVES**

**Interdepartmental**

**4th Year Elective in Patient Safety**

**Clerkship Director: Bethany Ballinger, M.D.**

**MDE 8035 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital Celebration****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Fortune Alabi &****Dr. Fred Umeh** ***Contact person: Jacqueline Blanco, CMOM,*** ***(407) 507-2615;*** ***Jacqueline@floridalungdoctors.com*****Maximum Enrollment: 2-3 each block** | **First Day: Report to FH Celebration Health, 3rd Floor nurse’s station at 9:00 am.** |

This elective is designed to explore the fundamental issues in defining, measuring, and improving healthcare quality and safety. The student will gain an appreciation for how healthcare quality is defined and of the practical application of evidence-based medicine.

It would be of interest to students who are leaders and are considering a career in surgery or any area of hospital based medicine both clinical and administrative. It is a hands-on, practical elective showing how the Safety and Quality concepts, introduced by the WHO patient safety curriculum and delivered in the preclinical years, have practical application to the safer practice of medicine

**Objectives:**

1. Understand the complex interaction between the health care environment, doctor and patient.
2. Aware of mechanisms that minimize error, e.g., Checklists, clinical pathways.
3. Know the main sources of risk in the clinical workplace.
4. Understand how personal limitations contribute to risk.
5. Promote risk awareness in the workplace.
6. Understand the nature of error and how healthcare can learn from error.
7. Understand the harm caused by errors and system failures.
8. Aware of principles of reporting adverse events.
9. Understand the relationship between human factors and patient safety.
10. Apply human factor thinking to the workplace environment.
11. Understand the importance of teamwork in healthcare.

**ELECTIVES**

**Interdepartmental**

**Not Currenly Available: 4th Year Elective in Health Information Technology**

**Clerkship Director: Bethany Ballinger, M.D.**

**MDE 8080 3**

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| **Full-time (4 weeks)****(VA)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Christopher Lopez*****Contact person: Bethany Ballinger, M.D.*****(407) 303-6413;** **bethany.ballinger@ucf.edu****Maximum Enrollment: 1 each block** |  |

This elective will give an overview of the history and current research priorities of the medical/health informatics field. Major areas will center on the challenges surrounding the implementation of electronic health records in patient care settings and their use of help manage the health of large patient populations. These include the acquisition, storage, use and representation of medical data, health information retrieval and knowledge management methods, protecting the privacy, confidentiality and security of medical data, patient information portals and personal health records, evidence-based medicine and guidelines and regional/national health information exchange systems.

**Objectives:**

1. Develop an increased awareness of information technology trends in medicine.
2. Understand the impact these trends have on communicating with patients, patient safety and medical practice.
3. Understand the multiple issues encountered when adopting information technology in medicine.

**ELECTIVES**

**INTERNAL MEDICINE**

**ELECTIVES**

**Internal Medicine**

**Emergency Ultrasound Elective**

**MDE 8773 First Day: Report to Florida Hospital East @ 8:00 am**

**Part-time (2 weeks)**

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| **(FH) Florida Hospital East Orlando** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Alfredo Tirado-Gonzalez** ***Contact Person: Katherine Bradford, (407) 303-6413;*** ***Katherine.bradford@flhosp.org*****Maximum Enrollment: 1 per block**  |  |

The primary goal for the emergency ultrasound point of care elective is to provide the knowledge, skill, and experience to perform focused bedside ultrasound (US) examinations as a means to provide immediate information and answer specific questions about patients’ physical conditions and care.

**Objectives:**

**Patient Care:** Gather accurate, essential information in a timely manner from all sources, including medical interviews, physical examinations, medical records, and diagnostic/therapeutic procedures. Integrate diagnostic information and generate an appropriate differential diagnosis.

**Medical Knowledge:** Understand the basic principles of medical ultrasonography with the potential risks and benefits to the patient. Demonstrate the ability to appropriately use the ultrasound machine to obtain basic images. Demonstrate the ability to identify basic ultrasound anatomy. Understand the appropriate use of ultrasound in the diagnosis of common medical problems. Demonstrates adequate foundation of knowledge in US applications: FAST, Aorta, Renal, First Trimester Bleeding, Echo, Gallbladder, and Procedural ultrasound.

**Practice Based Improvement:** Locate, appraise, and assimilate evidence from scientific studies related to the health problems of their patients. Use information technology to manage information, access online medical information, and support their own education.

**Interprofessional and Communication Skills:** Demonstrate the ability to respectfully, effectively, and efficiently develop a therapeutic relationship with patients and their families. Demonstrate effective participation in and leadership of the health care team.

**Professionalism:** Arrive on time and prepared to work. Demonstrate appropriate use of symptomatic care. Treat patients/family/staff/paraprofessional personnel with respect. Protect staff/patient’s interests/confidentiality. Accept responsibility/accountability for patient care activities.

**ELECTIVES**

**Internal Medicine**

**Urology Elective**

**Clerkship Director: Hubert Swana, M.D.**

**MDE 8675**

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| **Full-time (4 weeks)****(FH), (OH), and (NCH)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Hubert Swana,** **Hubert.swana@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

The Urology Elective is a collaboration between The Department of Urology at Orlando Health, Florida Hospital, and Nemours Children’s Hospital. After completing the urology rotation you will have improved your ability to evaluate urology patients and formulate a treatment plan. Additionally, you will improve your operative skills and exposure to urologic procedures.

**Objectives:**

* 1. The medical students along with the mid-level providers are expected to take primary responsibility for all patients on the in-patient and consultation urology service.
		1. Mid-level providers (Physician Assistants and Nurse Practitioners) work on the urology service. The medical students are encouraged to communicate often with the appropriate resident, fellow, or mid-level providers in regard to specific patient care. The attending, resident, fellow, or mid-level providers will assign the medical student tasks.
		2. Students will be assigned in-patients and consults to follow. Prior to going to the OR or clinic in the morning the students are expected to round on their patients along with the urology team. Students should write a progress note but not put it into the patient’s chart. The note should be reviewed with the attending, resident, fellow, or mid-level providers who will write the note in the patient’s chart. This note should include but not be limited to: report on significant events from the previous day/night, laboratory studies, vital signs, intake (oral and IV) and output of fluids (including drains) and physical exam for the past 24 hours. The student should show their progress note to the attending for feedback.
		3. The medical student, resident, fellow, and mid-level providers will be encouraged by each attending physician to work together as a team and divide tasks appropriately in order to better complete the morning’s work.
	2. The medical student is expected to experience and participate in the full spectrum of perioperative patient care. The priorities of medical student assignment after completion of morning “rounds” are as follows in order of importance.
		1. **Surgical Procedures:** Specifically the medical student in conjunction with the resident, fellow, and mid-level providers is expected to evaluate emergency and inpatient consultations, form a diagnosis and initial plan, and discuss each with the attending urologist on call. All consultations are to be filled out on the written comprehensive

**Urology Elective—Continued**

**Clerkship Director: Hubert Swana, M.D.**

forms complete with review of systems, physical, pmh,psh,… The mid-level providers, resident, fellow, or attending will dictate formal consultation note.

* 1. The medical student is expected to read on the medical condition of the inpatient and consults and the upcoming OR cases. In addition, the student should be familiar with the patient’s history and physical exam, operative indication, and surgical steps proposed for the case being discussed.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Cardiology**

**MDE 8222 8**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@mima.com*****Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

Goals are advanced training and responsibility in the care of adult cardiology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Cardiology Inpatient/Outpatient at Orlando Heart Center**

**Clerkship Director: Adam Waldman, M.D.**

**MDE 8223 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH) and Orlando Heart Center****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Adam Waldman &****Dr. Joel Garcia** ***Contact person: Dr. Adam Waldman******(407) 650-130;*** ***adam.waldman@orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |  |

The student will develop an understanding of the pathophysiology of cardiovascular disease and learn an approach to the evaluation and treatment of patients with cardiovascular disease. The course provides an in-depth exposure to the diagnosis and treatment of cardiovascular disease in the hospital and out-patient setting through bedside teaching, didactic lectures, conferences, and Grand Rounds.

**Objectives:**

1. After completion of the course the student will be able to take a detailed history and perform a physical examination tailored to the cardiovascular system to develop a differential diagnosis.

**ELECTIVES**

**Internal Medicine**

**Congenital Cardiology**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8225 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)****Grading Basis: Pass/Fail****Primary Faculty Supervisors: TBD** ***Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |  |

Goal to understand congenital heart defects including inpatient and outpatient experiences-diagnosis, management, CVICU, CV anesthesia, and OR exposure to patients with congenital heart defects.

**Objectives:**

1. Recognize and understand congenital heart defects and basic management.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Endocrinology**

**MDE 8262 8**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com;*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

Goals are advanced training and responsibility in the care of adult endocrinology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Gastroenterology**

**MDE 8271 8**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com;*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

Goals are advanced training and responsibility in the care of adult gastroenterology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Gastroenterology, Inpatient/Outpatient**

**Clerkship Director: Sergio Salazar, M.D.**

**MDE 8270 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Marilyn Ilagan** ***Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The student will develop an understanding of the pathophysiology of gastrointestinal disease and learn an approach to the evaluation and treatment of patients with gastrointestinal disease. The course provides an in-depth exposure to the diagnosis and treatment of gastrointestinal disease in the hospital and out-patient setting through bedside teaching, didactic lectures, conferences and Ground Rounds.

**Objectives:**

1. After completion of the course, the student should be able to take a detailed history and perform a physical examination tailored to the gastrointestinal system to develop a differential diagnosis.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Hematology/Oncology**

**MDE 8281 8**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com;*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

Goals are advanced training and responsibility in the care of adult hematology/oncology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Diagnostic Hematology**

**Clerkship Director: TBD**

**MDE 8285 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****Grading Basis: Pass/Fail****(OH)****Primary Faculty Supervisors: Dr. Lizardo Cerezo*****Contact Person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 per block (June, September, October, November, December, February, March & April only)** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The student will be working closely with the hematopathologist, clinical hematologists, senior residents and supervisors of the hematology section; he/she will both observe and participate in the usual studies performed in these areas including coagulation work-ups, complete blood counts, bone marrow examinations and cytology of fluids. Some exposure to flow cytometry will be incorporated into the program.

**Objectives:**

1. Upon completion of the course, the student will be able to perform selected procedures and interpret coagulation work-ups and bone marrow studies.
2. In addition, the student will learn the laboratory’s capabilities and how to utilize the laboratory services.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Nephrology**

**MDE 8351 8**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

Goals are advanced training and responsibility in the care of nephrology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Nephrology, Inpatient/Outpatient**

**Clerkship Director: Sergio Salazar, M.D.**

**MDE 8350 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****Grading Basis: Pass/Fail****(OH) Orlando Health****Primary Faculty Supervisors: TBD** ***Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

**MDE 8350**

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| **Part-time (2 weeks)****Grading Basis: Pass/Fail****(FLG) Flagler Hospital****Primary Faculty Supervisors: Dr. Amir Malik** ***Contact person: Wendy Jennings, (904) 829-8300;*** ***wendy.rj@live.com******; Kari Bates, (904)819-4578;*** ***kari.bates@flaglerhospital.org*****Maximum Enrollment: 1-2 each block** | **First Day: Report to Flagler Hospital, St. Augustine, Fl, 6th floor Medical Library @ 8:00 am** |

This course provides an in-depth exposure to the diagnosis and treatment of renal disease in the hospital and outpatient setting through bedside teaching, didactic lectures, conferences and Grand Rounds. After completion of the course, the student will be familiar with the various diagnostic and therapeutic modalities that are used in the treatment of patients with renal disease.

**Objectives:**

1. After completion of the course, the student will be familiar with the various diagnostic and therapeutic modalities that are in the treatment of patients with renal disease.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Dermatology**

**MDE 8252 8**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com;*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

Goals are advanced training and responsibility in the care of dermatology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Not Available: Dermatology Clinic Elective**

**MDE 8251 9**

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| **Variable (2-4 weeks)****Grading Basis: Pass/Fail****(PO) Altamonte Dermatology****Primary Faculty Supervisor: Jerri Johnson****Jjohnson7191@aol.com*****Contact person: Amy Keeney******(407) 260-2606;*** ***amy@jerrijohnsonmd.com*****Maximum Enrollment: 1 each block** | **First Day: Report to 411 Maitland Ave., Suite 1001, Altamonte Springs, FL @ 8:00 a.m.** |

This elective will provide exposure to a general dermatology practice. The student will be seeing patients with the dermatologist and participating in surgical procedures in the office.

**Objectives:**

1. Become familiar with common dermatologic conditions.
2. Be able to treat common dermatologic conditions.
3. Demonstrate proficiency with basic surgical procedures.

**ELECTIVES**

**Internal Medicine**

**Not Currently Available: Associates in Dermatology - Dermatology Elective**

**Clerkship Director: Michael Steppie, M.D.**

**MDE 8250 9**

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| **Variable (2-4 weeks)****(PO) Associates in Dermatology****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Michael Steppie****msteppie@gmail.com*****Contact person: Jaime Handley******(407) 846-7546 ext. 3221;*** ***Jaime@dermorlando.com*****Maximum Enrollment: 1 each block** | **First Day: You will receive an email the Friday afternoon before the start of your rotation from Jaime Handley with first day reporting instructions.**  |

Associates in Dermatology Clerkship director and his staff will introduce students to dermatology and dermatologic surgery. They will be seeing patients with a vast array of diseases of the skin, hair, and nails, as well as surgical excisions of melanoma, skin tumors, cancers, benign moles, and skin legions. The students will also be familiarized with Photodynamic Therapic (PDT) for psoriasis and eczema, Electrocautery Treatments and Blue-Light to treat pre-cancerous legions, acne, and acne scarring. They will also be given an overview of a number of cosmetic dermatology services such as Botox, Laser Facial Rejuvenation, and Intense Pulsed Light.

**Objectives:**

**The students will need to be able to perform patient assessment, while taking a dermatologic patient history, physical exam of the skin, differential diagnosis evaluation, and treatment considerations.**

**ELECTIVES**

**Internal Medicine**

**Wound Care**

**Clerkship Director: Robert Phillips, DPM**

**MDE 8345 3**

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| **Full-time (2 or 4 weeks)****(VA)****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Robert Phillips, DPM;** **Lori Kruger, GNP*****Contact person: Dr. Robert Phillips*****(407) 432-8468;** **robert.phillips9@va.gov****Maximum Enrollment: 1 each block (None in June, July, or August)** | **First Day: Report to VA Medical Center, Building 500, Suite 1063 @ 7:00 a.m. Students should email Andrea Gelber to get computer access codes.** |

The student will be exposed to patients with all types of wounds. Most of the wounds will be located on the lower extremity. Diabetic ulcers will be heavily emphasized, though all types of wounds will be encountered, including decubitus ulcers, venous stasis ulcers, arteriosclerosis ulcers, surgical wounds and complications. In addition, the student will be exposed to the patient at high risk for developing ulcers as well as those who have finished healing a wound and are now being monitored for reoccurrence.

**Objectives:**

1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially

and in an ongoing fashion.

1. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
2. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Dermatology Elective**

**Clerkship Director: James A. Solomon, M.D.**

**MDE 8250 9**

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| **Full-time (4 weeks)** **(PO) Advanced Dermatology & Cosmetic Surgery****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. James Solomon****drjsolomon@ameridermresearch.com*****Contact person: Sandra Davis, Office Manager******(386) 523-0768;*** ***sdavis@ameridermresearch.com*****Maximum Enrollment: 1 each block** | **First Day: Report to 725 West Granada Blvd., Suite 44, Ormond Beach, Fl 32174 @ 9:00 a.m.** |

The student is exposed to one of the largest group dermatology practices in the country. The practice has over 50 office sites in 50 cities in Florida. Opportunities to work in several offices will expose the student to almost all aspects of diagnosis and treatment within general dermatology (pediatric to geriatric), surgical dermatology (routine, Moh’s, laser), and cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services), and dermatopathology. The student, with the help of the office manager, will arrange weekly rotations through several offices to provide the broadest experience possible. No night call or weekends required.

**Objectives:**

1. The student will gain his/her dermatology basic clinical knowledge and ability to communicate, discuss cases and interact with staff, patient in an intelligent and thoughtful way, and responds to clinical questions appropriately as knowledge of the field increase.
2. The student learns about skin and sun safety as well as the importance of evaluating the whole patient and discussing risk-taking behaviors.
3. The student learns to assist in basic dermatologic surgery procedures as well as gains understanding of more complex surgical procedures (Moh’s surgery and cosmetic closures), and laser surgery.
4. The student is exposed to the broad spectrum of dermatology specific medications and completes the rotation with a basic dermatology treatment armamentarium.
5. The student gains an understanding in which cosmetic dermatology is used as a methodology to enhance the appearance of the skin by repairing damage done through sun, trauma and/or skin disease.

**ELECTIVES**

**Internal Medicine**

**Advanced Dermatology Elective**

**Clerkship Director: James Solomon, M.D.**

**MDE 8254 9**

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| --- | --- |
| **Full-time (4 weeks)****(PO) Advanced Dermatology & Cosmetic Surgery,** **725 West Granada Blvd., Suite 44, Ormond Beach, FL 32174****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. James Solomon, (386) 523-0768** ***Contact person: Sandra Davis, Office Manager******(386) 523-0768;*** ***sdavis@ameridermresearch.com*****Maximum Enrollment: 1 each block****\*\*Student must complete MDE 8250 before taking this course and submit CV** | **First Day: Report to 725 West Granada Blvd., Suite 44, Ormond Beach, Fl 32174 @ 9:00 a.m.** |

The student is exposed to one of the largest group dermatology practices in the country. The practice has over 50 office sites in 50 cities in Florida. Opportunities to work in several offices will expose the student to almost all aspects of diagnosis and treatment within general dermatology (pediatric to geriatric), surgical dermatology (routine, Moh’s, laser), cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services), and dermatopathology. In addition, the student will be able to participate in or observe ongoing clinical research studies (phase II-IV). Furthermore, the student may choose to be instructed in centralized, multiple office management. Emphasis is placed on treating the patient’s current problem while repairing the underlying skin abnormalities to reduce risks of further problems. The student is expected to function as a member of the office team. The student, with the help of the office manager, will arrange weekly rotations through several offices to provide the broadest experience possible.

**Objectives:**

1. The student increases his/her basic clinical knowledge and ability to communicate, discuss cases and interact with staff, patients, and research subjects in an intelligent and thoughtful way and responds to clinical questions appropriately as knowledge of the field increases.
2. The student learns about skin and sun safety as well as the importance of evaluating the whole patient and discussing risk-taking behaviors.
3. The student learns to assist in basic dermatologic surgery procedures as well as gains understanding of more complex surgical procedures (Moh’s surgery and cosmetic closures) and laser surgery.
4. The student is exposed to the broad spectrum of dermatology specific medications and completes the rotations with a basic dermatology treatment armamentarium.
5. The student gains an understanding in which cosmetic dermatology is used as a methodology to enhance the appearance of the skin by repairing damage done through sun, trauma, and/or skin disease.
6. The student is exposed to the complexities of the business aspects of a medical practice.
7. The student is exposed to new drug development as well as studies which expand the use of current medications and/or retest the safety profiles.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Acute Care Medicine**

**MDE 8344 8**

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| **Full-time (4 weeks)****(HF) MIMA** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

This four week experience will provide advanced clinical training in the outpatient care of adult acute care patients in the outpatient setting.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Rheumatology**

**MDE** **8310 8 MDE 8310 3**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: ABCF****First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com*** **Maximum Enrollment: 1 each block** | **Full-time (4 weeks)****(VA)****Grading Basis: ABCF****First Day: Report to Orlando VA Ambulatory Center, VA Library @ 8:00 a.m. Students should email Andrea Gelber to get computer access codes.Primary Faculty Supervisor: Dr. Sujatha Vuyyuru*****Contact person: Andrea Gelber******andrea.gelber@va.gov*****Maximum Enrollment: 1 each block** |

Goals are advanced training and responsibility in the care of adult rheumatology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Pulmonary Medicine**

**MDE 8246 8**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

This four week experience will provide advanced clinical training in the outpatient care of adult pulmonary medicine patients in the outpatient setting. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Ambulatory Elective in Infectious Disease and Travel Medicine**

**MDE 8321 8**

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| **Full-time (4 weeks)****(HF) MIMA****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Amy Ettaro, (321) 725-4500 x7195;******amy.ettaro@******mima.com;*** **Maximum Enrollment: 1 each block** | **First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.** |

This four week experience will provide advanced clinical training in the outpatient care of adult ID/travel medicine patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Pulmonary Elective**

**Clerkship Director: Sergio Salazar, M.D.**

**MDE 8245 9**

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| **Full-time (4 weeks)****(PO) Central Florida Pulmonary Group****326 N. Mills Avenue, Orlando, FL 32803****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Daniel Layish** ***Contact person: Ardith Dell******(407) 581-1446;*** ***adell@cfpulmonary.com*****Maximum Enrollment: 1-2 each block** | **First Day: Contact Ms. Dell two weeks before rotation to confirm first day reporting information. Dress code is either scrubs or professional attire.** |

**MDE 8245 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****Grading Basis: Pass/Fail****(OH)****Primary Faculty Supervisors: TBD** ***Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

No weekend or night calls. Evaluate patients with pulmonary disease and participate in procedures.

**Objectives:**

1. Be able to appropriately evaluate a patient with dyspnea.
2. Be able to evaluate appropriate clinical data (PFT, CXR or others) in the context of patient care.
3. Understand physiology, diagnosis and management of patients with sleep disturbance.
4. Demonstrate ability to obtain medical history, evaluate and propose preliminary treatment for selected patients with pulmonary disorders.

**ELECTIVES**

**Internal Medicine**

**Infectious Disease, Inpatient/Outpatient**

**Clerkship Director: Sergio Salazar, M.D.**

**MDE 8320 2**

|  |  |
| --- | --- |
| **Full-time (4 weeks)****(OH)****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Kauser Akhter****Ka1786@aol.com*****Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

This course provides an in-depth exposure to the diagnosis and treatment of infectious diseases in the hospital and outpatient setting. The student will become familiar with the various diagnostic and therapeutic modalities which are used in the treatment of patients with infectious diseases.

**Objectives:**

1. After completion of the course, the student will be familiar with the various diagnostic and therapeutic modalities which are used in the treatment of patients with infectious diseases.

**ELECTIVES**

**Internal Medicine**

**Dermatology Research Elective**

**Clerkship Director: James Solomon, M.D.**

**MDR 8250 9**

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| --- | --- |
| **Full-time (4 weeks)****(PO) Advanced Dermatology & Cosmetic Surgery** **Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. James Solomon****Drjsolomon@ameridermresearch.com*****Contact person: Sandra Davis, Office Manager******(386) 523-0768;*** ***sdavis@ameridermresearch.com*****Maximum Enrollment: 1 each block** | **First Day: Report to 725 West Granada Blvd., Suite 44, Ormond Beach, Fl 32174 @ 9:00 a.m.** |

The student is exposed to one of the largest group dermatology practices in the country. The practice has over 50 office sites in 50 cities in Florida. Opportunities to work in several offices will expose the student to almost all aspects of diagnosis and treatment within general dermatology (pediatric to geriatric), surgical dermatology (routine, Moh’s, laser), cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services), and dermatopathology. The student with the help of the office manager, will arrange weekly rotations through several offices to provide the broadest possible. No night call or weekends required.

**Objectives:**

1. The student increases his/her basic clinical knowledge and ability to conduct clinical research within dermatology, to communicate, discuss protocols, and data. The student will interact with staff, investigators and industry representatives throughout the world, in an intelligent and thoughtful way, and responds to clinical questions appropriately as knowledge of the field increases.
2. The student learns about the import of Good Clinical Practices and maintaining patient safety throughout any clinical field.
3. The student learns to create protocols, enter data and develop reports.
4. The student is exposed to new drug development as well as studies which expand the use of current medications and/or retest the safety profiles.
5. The student is exposed to the complexities of the business aspects of a clinical research and medical practice.
6. The student gains an understanding in which cosmetic dermatology is used as a methodology to enhance the appearance of the skin by repairing damage done through sun, trauma, and/or skin disease.

**ELECTIVES**

**OBSTETRICS & GYNECOLOGY/**

**ONCOLOGY**

**Electives**

**Obstetrics & Gynecology/Oncology**

**Hematology & Oncology, Inpatient/Outpatient**

**Clerkship Director: Sergio Salazar, M.D.**

**MDE 8280 2**

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| --- | --- |
| **Full-time (4 weeks)****(OH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBA*****Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

This course provides an in-depth exposure to the diagnosis and treatment of hematologic disease and malignancy in the hospital and outpatient setting.

**Objectives:**

1. After completion of the course, the student should be able to take a detailed history and perform a physical examination tailored to the hematologic system, in order to develop a differential diagnosis.

**Electives**

**Obstetrics & Gynecology/Oncology**

**Integrative Reproductive Medicine E-text Development**

**MDE 8095 First Day: To be scheduled with Dr. Simms-Cendan**

**Full-time (4 weeks)**

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| --- | --- |
| **(UCF COM)** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Judith Simms-Cendan** ***Contact Person: Dr. Judith Simms-Cendan,*** ***(407) 266-1057;*** ***Judith.simms-cendan@ucf.edu*****Maximum Enrollment: 2 (June, July, August, & September only)**  |  |

Students will develop an in-depth understanding of the selected subjects in reproductive medicine. They will learn medical education theory and use of available software. The end product will be a resource for the preclinical students and possible publication.

**Objectives:**

1. Improved knowledge in reproductive pathology, physiology and pharmacology
2. Use of technology to create e-textbooks

**Learning Activities**

1. Students will research a topic then develop an e-module that includes a case vignette, background information, video, self-assessment and other interactive modalities.

**Electives**

**Obstetrics & Gynecology/Oncology**

**Elective in Reproductive Endocrinology and Infertility**

**Clerkship Director: Aileen Caceras, M.D.**

**MDE 8110 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH) Winnie Palmer Hospital for Women & Babies****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Milton McNichol*****Contact person: Dr. Milton McNichol******(407) 345-9006;*** ***ivforlando@gmail.com*****Maximum Enrollment: 1 each block (except July)** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

In addition to gaining knowledge of human reproductive endocrine function, students are introduced to disruptions in physiology and function, which can lead to endocrinological and infertility disorders. Common problems seen in REI practice include female and male infertility, recurrent pregnancy loss, polycystic ovarian syndrome, anovulation, amenorrhea, chronic pelvic pain, abnormal uterine bleeding, and uterine leiomyomas. Exposure to Advanced Reproductive Technologies (ART) in integrated into this elective. Evaluation will be based on clinical performance in the office and the operating room and an evidence-based presentation on an REI topic of interest.

This course will provide the student with exposure to patients with infertility and reproductive endocrinology problems. The student will be involved in patients’ subsequent investigation, evaluation and treatment, including surgery. They will also observe all aspects of an in-vitro fertilization laboratory when in cycle (please call for dates.) The clinical aspect will be supplemented by case conferences, lectures, and interactive tutorials. During this rotation, students will also spend a limited amount of time devoted to general obstetrics and gynecology.

**Objectives:**

1. History skills. Gather the important information that is needed for reproductive endocrine history and complete a history in the medical record for at least five patients.
2. Physical examination skills. Complete a pertinent physical examination for the evaluation of reproductive endocrine disorders on at least five patients. The student should demonstrate the ability to perform this pertinent physical examination while being observed by at least one attending or resident.
3. Knowledge/diagnostic and treatment skills: Know about common reproductive endocrine conditions.
4. Procedural skills. Observe and assist in common procedures performed: Hysterosalpingography, sonohysterorgraphy, transvaginal ultrasonography, laparoscopy, hysteroscopy, oocyte retrieval and embryo transfer.
5. Attitude: Demonstrate professional responsibility in working as a team member with other members of the REI care team, patients and families.

**Electives**

**Obstetrics & Gynecology/Oncology**

**Cancelled - Hematologic Oncology & Bone Marrow Stem Cell Transplantation**

**Clerkship Director: Vijay Reddy, M.D.**

**MDE 8283 1**

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| **Full-time (4 weeks)****Grading Basis: Pass/Fail****(FH) Cancer Institute****Primary Faculty Supervisor: Dr. Vijay Reddy** ***Contact person: Linda Myers, Kim Lower (Office Manager)******(407) 303-2070*****Maximum Enrollment: 1 each block** | **First Day: Report to (FH) Cancer Institute, 5th Floor, Suite 581, Orlando, FL @ 8:00 a.m.** |

To learn about hematologic malignancies, and bone marrow/stem cell transplantation procedures, including bone marrow biopsies. No call, but may be asked to round with attending when appropriate.

**Objectives:**

1. Learn to do History and Physical, lymph node exam and for hepatosplenomegaly, chemotherapy related complications.
2. Differential diagnosis of hematologic issues and potential treatment options.

**Electives**

**OPHTHALMOLOGY/**

**PEDIATRICS**

**Electives**

**Ophthalmology/Pediatrics**

**Clinical Ophthalmology Elective**

**Clerkship Director: Saad Shaikh, M.D.**

**MDE 8550 3**

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| **Variable Duration (2-4 weeks)****(VA)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Saad Shaikh*****Contact person: Dr. Saad Shaikh******(407) 266-1100;*** ***sshaikhmd@cfl.rr.com******; Kate Knowles,*** ***kate@ucf.edu*****Maximum Enrollment: 1 each block**  | **First Day: Students should contact Dr. Shaikh prior to the start of the rotation to make first day arrangements. If you are not able to reach him please contact Kate Knowles. For the first day report to VA, Hospital Eye Clinic, room 1510 @ 8:00 a.m. Students should email Andrea Gelber to get computer access codes.** |

**MDE 8550 9 First Day: Report to 921 N. Main Street, Kissimmee,**

**Full-time (4 weeks) Fl 34744 @ 8:00 am**

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| **(PO) Medical Eye Associates** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Mont Cartwright** ***Contact Person: Peter Sefcik,*** ***(407) 933-7800 x130;*** ***psefcik@medeyedoc.com*****Maximum Enrollment: 1 per block**  |  |

A 1-4 week rotation will be developed by the elective faculty and the student based on individual student goals. Core competencies to be achieved during the elective include general eye examination and ophthalmoscopic examination skills and exposure to ophthalmic surgery. For more advanced students or those available for longer time commitments, students will assist in ophthalmic surgical procedures, workup and presentation of ophthalmic cases to faculty and have the opportunity to present and or write a case report for publication. There are no weekend clinics outside of call. Call will be limited to accompanying staff to after-hours emergency evaluations (rare).

**Objectives:**

1. Achieve proficiency in the evaluation of patients with ocular disorders.
2. Establish familiarity within common eye conditions and their treatment.
3. Recognize ocular manifestations of systemic disease.
4. Become familiar with the clinical procedure ophthalmology.

**Electives**

**Ophthalmology/Pediatrics**

**Ophthalmology Research Elective**

**Clerkship Director: Michael Tolentino, M.D.**

**MDR 8550 9**

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| **Full-time (2-4 weeks)****(PO) Center for Retina & Macular Disease****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Michael Tolentino*****Contact person: Dawn Sutherland, (863) 297-5400 x2032;*** ***dasu@crmd.net*****Maximum Enrollment: 1 each block** | **First Day: Report to Center for Retina & Macular Disease, 250 Ave. K, SW, Suite 200 Winter Haven, FL @ 9:00 a.m.** |

Students will have the opportunity to observe the implementation of clinical trials at an ophthalmology subspecialty (retina) clinic. They will gain exposure to the various phases of clinical trials and how basic science research is applied in clinical practice. Students will observe clinical trial data collection and treatment administration. Students will participate in the examination of retinal patients and be introduced to advances in diagnostic and therapeutic technology. Students will also have the opportunity to design a retrospective clinical research project that could lead to publication. There will be no weekend or on-call activities. This elective will benefit those seeking future careers in ophthalmology or in other clinical subspecialties where an understanding of clinical research is important.

**Objectives:**

1. Achieve familiarity with clinical trials and how clinical trials are designed.
2. Understand the role the FDA plays in approving therapeutics and devices.
3. Develop additional experience with the funduscopic examination.
4. Recognize retinal manifestations of systemic disease.
5. Become familiar with the workings of a modern ophthalmology subspecialty (retina) practice.

**Electives**

**Ophthalmology/Pediatrics**

**Not Available: Pediatric Hospitalist**

**Clerkship Director: Ben Guedes, M.D.**

**MDE 8400 1**

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| **Full-time (4 weeks)****(FH)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Ben Guedes*****Contact person: Francisco Hernandez, (407) 303-2888;******francisco.hernandez@flhosp.org*****Maximum Enrollment: 1 each block** | **First Day: Report to FH for Children, Pediatric Floor @ 8:00 a.m.** |

Provides an in-depth exposure and experience in hospital level care of admitted patients ages birth through 18 years, consults and admission. Responsible for admission, hospital treatment and as a primary care giver.

**Objectives:**

1. Daily rounds, daily teaching conference, presentation of case in depth, weekly.

**Electives**

**Ophthalmology/Pediatrics**

**Ambulatory Pediatrics Elective**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8404 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH) Arnold Palmer Hospital for Children****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Colleen Moran-Bano*****Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The elective is designed to acquaint the student with the management of acute pediatric illness in an outpatient setting. Well-Child Care, Child Development aspects, and the dynamics of private practice are presented. The elective also includes exposure to the normal newborn nursery, care of the term infant, and follow-up care of the newborn after hospital discharge. Proper examination and evaluation of the newborn infant is stressed.

**Objectives:**

1. Demonstrate proficiency in the evaluation and management of acute and chronic pediatric illnesses in the outpatient setting.
2. Order diagnostic tests appropriately.
3. Interpret diagnostic tests appropriately.
4. Perform a proficient newborn and well child physical examination.
5. Demonstrate proficiency in providing patient education, including phone contacts with patients.
6. Make appropriate referral patterns to subspecialists.
7. Demonstrate proficiency in providing advice to mothers regarding breast feeding and formula feeding.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Nephrology Elective**

**Clerkship Director: Jorge Ramirez, M.D.**

**MDE 8445 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH) Arnold Palmer Hospital for Children****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Jorge Ramirez*****Contact person: Dr. Jorge Ramirez******(321) 841-7970;*** ***jorge.ramirez@orhs.org*****Maximum Enrollment: 1 each block****MDE 8445 7****Full-time (2-4 weeks)****(NCH) Nemours Children’s Hospital & Nemours Associated Clinics****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Robert Mathias****Contact person: Tiffany Oreste, (407) 567-3876;** **tiffany.oreste@nemours.org****Maximum Enrollment: 1 each block**  | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation****First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

This two or four-week elective rotation, open to fourth year medical students, will provide a broad learning experience in pediatric Nephrology. Learning will occur through direct provision of care to children requiring Nephrology consultation. Learning will also occur through formal and informal didactic presentations, bedside teaching, and through directed and undirected reading. The medical student will serve as an integral part of the care team, providing direct patient care as appropriate under the supervision of the Nephrology attending.

The overall goal of the Nephrology elective is to acquire an in-depth knowledge and experience with commonly encountered renal problems of infants and children. This elective also includes adequate time to pursue readings that focus on pathophysiology of disease processes. With this information as a background, the Medical student will acquire a good understanding of the management and long-term outcomes of common renal disorders in children.

During the rotation, the medical student will, under the guidance of a supervising Nephrology physician, evaluate, examine, discuss, treat, and follow hospital inpatients and outpatients with proven or suspected Nephrologic diseases, including, but not limited to, those with hematuria, proteinuria, hypertension, urinary tract infections, kidney stones, nephrotic syndrome, acute kidney injury, chronic kidney disorder, and kidney transplantation.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Endocrinology Elective**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8430 1**

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| **Full-time (4 weeks)****(FH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Jorge Daaboul &** **Dr. Konda Reddy*****Contact person: Francisco Hernandez, (407) 303-2888;******francisco.hernandez@flhosp.org******; Kisha Green, (407) 303-7819,*** ***lakeata.green@flhosp.org*****Maximum Enrollment: 1 each block****MDE 8430 7****Full-time (2-4 weeks)****(NCH) Nemours Childrens Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Michelle Rivera-Vega****(407) 567-3855,** **michelle.rivera-vega@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to 615 E. Princeton St., Suite 1, Orlando, FL @ 9:00 a.m.** |

Learn the basics of Pediatric Endocrinology. Provide in depth exposure and experience in the diagnosis and treatment of endocrine disorders with a focus on the multidisciplinary care of the diabetic child. Also growth disorders, disorders of puberty, and obesity and its complications.

**Objectives:**

1. Diagnosis and treatment of Type 1 & 2 diabetes.
2. Differential diagnosis and treatment of growth disorders.
3. Differential diagnosis and treatment of pubertal disorders.
4. Recognition of obesity and complications.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Hematology/Oncology**

**Clerkship Directors: Fouad Hajjar, M.D., Jose Borrero, M.D.**

**MDE 8440 1 MDE 8440 2**

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| **Full-time (4 weeks)****(FH)** **First Day: Report to 2501 N. Orange Ave., Suite 589, Orlando, FL @ 8:30 a.m.****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Fouad Hajjar*****Contact person: Jena Heflin,*****(407) 303-2080;** ***Jenilee.marmo@flhosp.org*****Maximum Enrollment: 1 each block** | **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)** **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** |

Pediatric hematology and oncology including bone marrow transplant. On this rotation the student will be exposed to a wide spectrum of pediatric hematology and oncology diseases. Patient care and consultation experience will be provided primarily in the pediatric hematology/oncology clinic, as well as through inpatient consults, and inpatient experience can be obtained if desired. The student will observe lumbar puncture and bone marrow examination procedures. Students will spend approximately one day with the hematopathologist examining normal and abnormal peripheral blood smears and bone marrow slides.

**Objectives:**

1. Learn low to diagnose and treat hematologic problems in children.
2. Understand mechanisms of immune manipulation in pediatric BMT.
3. See and understand common childhood malignancies.

**Electives**

**Ophthalmology/Pediatrics**

**Genetics and Dysmorphology**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8438 7**

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| **Full-time (4 weeks)****(NCH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Patricia Wheeler****Patricia.wheeler@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block** | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

Students will become familiar with the systematic approach to evaluating a patient with a known or suspected genetic, cytogenetic, metabolic or dysmorphic order.

**Objectives:**

1. Students will be able to perform a physical examination with emphasis on identifying and describing congenital anomalies and dysmorphic features.
2. Students will be able to elicit and construct three generation pedigree (family tree).
3. Students will become familiar with how genetic counselors and geneticists approach counseling for conditions with Mendelian inheritance patterns (autosomal dominant, autosomal recessive, and X-linked) and non-Mendelian inheritance patterns (mitochondrial, inheritance, multifactorial conditions and chromosomal abnormalities).
4. Students will become familiar with on-line resources that are available for physicians caring for patients with genetic disorders.
5. Students will become familiar with community resources and support groups for individuals and their families who have a genetic disorder.
6. Students will learn the common indications for referring a patient to genetic services.

**Electives**

**Ophthalmology/Pediatrics**

**Developmental/Behavioral Pediatric Medicine Elective**

**Clerkship Director: Stephanie Spinelli, OT OTR**

**MDE 8415 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Emily Forrest,** **Emily.forrest.md@flhosp.org*****Contact person: Francisco Hernandez,*** ***(407) 303-2888;*** ***francisco.hernandez@flhosp.org*****Maximum Enrollment: 1 each block** | **First Day: Report Kid’s Doc Building, Suite 300 @ 8:00 am** |

**MDE 8415 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH) Arnold Palmer Hospital for Children****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Stephanie Spinelli*****Contact person: Stephanie Spinelli******(407) 896-1152;*** ***stephspin@cfl.rr.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The program emphasizes the use of multiple disciplines and community resources that specialize in developmental issues. The student will participate in a structured experience in normal and abnormal behavior and development. Participants are scheduled for two half-day assignments each day. Assignment sites include but are not limited to special education programs, early intervention agencies, neurology clinics, and developmental evaluation clinics. Speech and language evaluations, as well as occupational and physical therapy sessions will also be attended. Participants will be given the opportunity to learn about normal and abnormal development issues of children, premature through adolescence. Opportunities for hands-one experience with special needs children and their families are provided.

**Objectives:**

1. Recognize age appropriate behavior and development.
2. Conduct basic age appropriate developmental testing.
3. Describe community based services available to evaluate and treat children with developmental delays.
4. Demonstrate proficiency in counseling parents about common behavior problems, to include: enuresis, sleep disturbances, temper tantrums, and needs for discipline/limit setting.
5. Demonstrate proficiency in the evaluation of a child with suspected attention deficit hyperactivity disorder (ADHD).
6. Demonstrate proficiency in the management of a child with suspected attention deficit hyperactivity disorder (ADHD).

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Dermatology**

**Clerkship Director: Tace Rico, M.D.**

**MDE 8500 1**

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| **Full-time (2-4 weeks)****(FH)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Tace Rico*****Contact person: Sebi Colon, Office Manager******(407) 303-1509;*** ***eusebia.colon@flhosp.org*****Maximum Enrollment: 1 each block (None in June)**  | **First Day: Report to 615 E. Princeton St., Suite 416, Orlando, FL @ 8:30 a.m.** |

Exposure to many common pediatric skin diseases, some more rare congenital dermatoses. Importance of the derm exam and the correct use of morphologic terminology and examination technique. Understanding of most common dermatoses. Most time in a pediatric outpatient clinic observing procedures including biopsies, lasers and minor surgeries. Opportunity to evaluate inpatients on the consult service with acute dermatologic issues. Journal discussions and kodachromes will occur daily.

**Objectives:**

1. Become proficient in describing skin lesions
2. Basic understanding of acne and treatment regimens.
3. Recognition of atopic dermatitis, generate treatment plan.
4. Recognition of common skin infections in children.
5. Differentiation between infantile hemangiomas and vascular malformations.
6. Familiarity with nevi and congenital lesions.
7. Familiarity with some more common genodermatoses with appropriate workup.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Pulmonary Elective**

**Clerkship Director: Carlos Sabogal, M.D.**

**MDE 8425 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Carlos Sabogal*****Contact person: Dr.Carlos Sabogal*****(321) 841-6350;** **carlos.sabogal@orlandohealth.com****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

This clinical course will be based on basic respiratory physiology and will include a variety of clinical pulmonology experiences such as infectious disease of the lungs, hypersensitivity lung disease, cystic fibrosis, asthma, pulmonary reactions to chemical injury and trauma, radiologic evaluation of lung disease, pulmonary pathology, flexible bronchoscopy, pulmonary function testing, exercise physiology, sleep disordered breathing, apnea of prematurity/infancy, congenital disorders of the respiratory tract, home ventilation and chronic lung disease of infancy. Patient care and consultation experience will be gained on the inpatient services, intensive care units, and in the pediatric pulmonology clinic. In addition, the student will spend time in the pediatric pulmonary function and sleep laboratories.

**Objectives:**

1. Describe normal patterns of breathing in infants and children.
2. Demonstrate proficiency in the examination of the respiratory system.
3. Diagnose and treat asthma according to national guidelines.
4. Demonstrate proficiency in the management of children with cystic fibrosis.
5. Describe strategies for managing the complexities of the treatment of BPD.
6. Interpret basic pulmonary function testing in children.

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**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Critical Care and ICU**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8465 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Stacy McConkey,** **stacy.mcconkey.md@flohosp.org*****Contact person: Francisco Hernandez, (407) 303-2888;******francisco.hernandez@flhosp.org*****Maximum Enrollment: 1 each block** | **First Day: Report to 5th floor PICU @ 6:30 am** |

In-depth exposure and experience in Pediatric Clinical Care. Pediatric Critical care on a daily basis.

**Objectives:**

1. Learn critical assessment skills and intro to decision making process in critical care setting.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Cardiology**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8420 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Matthew Zussman****Matthew.Zussman.md@flhosp.org*****Contact person: Francisco Hernandez, (407) 303-2888;******francisco.hernandez@flhosp.org*****Maximum Enrollment: 1 each block** | **First Day: Report to Med Plaza, Suite 310 @ 7:00 am** |

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| **MDE 8420 2****Must be scheduled through VSAS****Full-time (4 weeks)****(OH) Arnold Palmer Hospital for Children****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |
| **MDE 8420 7****Full-time (2-4 weeks)****(NCH) Nemours Children’s Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Eva Nunlist****Contact person: Tiffany Oreste, (407) 567-3876;** **tiffany.oreste@nemours.org****Maximum Enrollment: 1 each block**  | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

The overall goal of this rotation is to provide a comprehensive program toward the recognition and management of major/common pediatric cardiology problems. Emphasis will be on the pathogenesis, pathophysiology, diagnosis and management principles of congenital and acquired heart disease in the young. Additional time will be spent on the understanding, recognition and management of pediatric cardiac rhythm disturbances and general pediatric cardiology issues.

**Objectives:**

1. Elicit a thorough and accurate history and performing comprehensive cardiovascular examination of neonates, infants, children and adolescents.
2. Detect significant heart disease through history and physical exam.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Gastroenterology Elective**

**Clerkship Director: Jeffrey Bornstein, M.D.**

**MDE 8433 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Jeffrey Bornstein*****Contact person: Dr. Jeffrey Bornstein******(321) 841-3338;*** ***jeffrey.bornstein@orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

**MDE 8433 7 First Day: Report to Nemours Children’s Hospital**

**Full-time (2 or 4 weeks) Lobby @ 8:30 am**

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| **(NCH) Nemours Children’s Hospital** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Jolanda Denham,** **Julia.denham@nemours.org*****Contact Person: Tiffany Oreste, 407-567-3876;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

On this rotation the student will be exposed to a wide spectrum of pediatric gastrointestinal and liverdiseases. Patient care and consultation experience will be provided in the pediatric gastroenterology clinic, inpatient service and intensive care units. The student will participate in a full range of endoscopic, monomeric and biopsy procedures.

**Objectives:**

1. Describe normal feeding patterns from infancy through adolescence.
2. Explain how differential diagnosis and work-up is used for the evaluation of chronic recurrent abdominal pain in the pediatric patient.
3. Evaluate a child with abnormal liver function tests.
4. Evaluate a child with gastroesophageal reflux.
5. Manage a child with gastroesophageal reflux.
6. Describe a diagnostic approach for the child with vomiting or hematochezia.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Infectious Diseases**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8454 7**

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| **Full-time (2-4 weeks)****(NCH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Kenneth Alexander****Kenneth.alexander@nemours.org****; (407) 567-6724*****Contact person: Tiffany Oreste,*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block** | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

This two or four week elective rotation, open to fourth year medical students, will provide a broad learning experience in pediatric infectious diseases. Learning will occur through direct provision of care to children requiring infectious diseases consultation at the Nemours Children’s Hospital and at Nemours-associated clinics. Learning will also occur through formal and informal didactic presentations, bedside teaching, and through directed and undirected reading. The medical student will serve as an integral part of the care team, providing direct patient care under the supervision of the infectious diseases attending.

This rotation will emphasize diagnostic assessment through a detailed history, a careful physical examination, and appropriate use of laboratory studies. The rotation also emphasizes appropriate use of antimicrobial therapy, the understanding of post pathogen relationships, and the importance of social, emotional, physical, and medical legal issues that impact children with infectious diseases.

During the rotation, the medical student will, under the guidance of a supervising infectious disease physician, evaluate, examine, discuss, treat, and follow hospital inpatients and outpatients with proven or suspected infectious diseases, including, but not limited to, those with nonsocomial infections, postoperative infections, trauma-related infections, septicemia, pneumonia, peritonitis, and infections in immunocompromised hosts, including patients with primary immunodeficiency syndromes, patients undergoing immunosuppressive therapy, and children and adolescents with HIV infection.

**Objectives:**

Medical students will demonstrate compassionate scientifically guided and effective care for the promotion of health, prevention of illness, and treatment of disease. Medical students must:

1. Demonstrate the ability to acquire and evaluate new information needed for the care of each patient.

2. Demonstrate the ability to perform meticulous physical examination of children across the age spectrum.

3. Demonstrate the ability to create comprehensive differential diagnoses that include both infectious and noninfectious etiologies for the patient’s illness.

**Pediatric Infectious Diseases continued**

4. Analyze accurately and apply available information to make appropriate diagnostic decisions and therapeutic plans.

5. Demonstrate the ability to create and evaluate patient management plans for children with infectious diseases.

**Medical Knowledge**

Medical students must demonstrate proficiency and obtaining new knowledge through didactic lectures discussions on rounds, a signed and unguided readings, use of the internet, and consultation with colleagues. Students will apply an open-minded, analytical approach to acquire a new knowledge, and will assess their knowledge critically through continued use of the medical and scientific literature. Students will also apply new knowledge to clinical problem solving and to clinical decision making.

* Describe the pathogenesis, clinical presentation diagnostic approaches to infections encountered in children in the inpatient and outpatient settings.
* Describe the appropriate use of diagnostic procedures and laboratory tests to evaluate and monitor children with suspected or proven infections.
* Demonstrate competence for the selection of appropriate antibiotics, and demonstrate the ability to provide appropriate recommendations for antimicrobial use and monitoring.
* Demonstrate knowledge and skill in the critical assessment of complex clinical infectious diseases problems
* Demonstrate knowledge of the appropriate, evidence-based management of inpatient and outpatient children with infectious diseases.
* Demonstrate knowledge of approaches for diagnosis and management of proven and suspected infections in immunocompromised children.
* Demonstrate an understanding of the rationale for and nature of infection control policies.
* Demonstrate understanding of the variation in epidemiology of infectious diseases among different age groups, states 4 immune function, socio-demographic groups, and geographic locations.

**Practice Based Improvement:**

Medical students are expected to evaluate and critically assess patient care practices, as well as appraise and dissimilate clinical information. Students will also demonstrate an ability to learn from their own and others’ mistakes

* Demonstrate proficiency in the use of the pediatric infectious diseases literature
* Apply up-to-date evidence-based information to address clinical questions and to guide medical therapy
* Evaluate their own performance, identifying gaps in their knowledge base, and target their self directed learning to improve performance and address knowledge gaps.
* Provide, request, and accept and incorporate feedback from all colleagues and from patients and their families
* Work with all members of the health care team to enhance team and knowledge and esprit de corps.

**Interprofessional and Communication Skills:**

Medical students are expected to demonstrate consistent interpersonal and communication skills that result in effective information exchange and support of families and colleagues.

* Demonstrate effective communication with the entire health care team
* Demonstrate effective communication with patients and their families

**Pediatric Infectious Diseases continued**

* Demonstrate the ability to communicate crucial and appropriate information through written medical records and patient case presentations
* Demonstrate appropriate use of cultural and language interpreters as needed
* Demonstrate the ability to counsel and educate patients and their families in a comprehensive, supportive, and culturally-appropriate manner

**Professionalism:** Medical students are expected to practice consistently high-quality healthcare that is cost effective and beneficial to the patient within the context of the health care system.

* Always act in the best interest of the patient
* Demonstrate a caring and respectful demeanor when interacting with patients and their families
* Maintain patient and family confidentiality
* Demonstrate sensitivity to ethical principles, culture, age, gender, religious belief, sexual orientation, and a disability
* Be punctual, reliable, and conscientious

**Systems Based Practice:** Medical students are expected to practice consistently high-quality healthcare that is cost effective and beneficial to the patient within the context of the health care system.

* Advocate for patients and their families as they navigate the complexities of the healthcare system
* Describe a role of the subspecialist in consultation
* Participate in multidisciplinary patient care activities
* Participate actively and regularly in educational and case management conferences
* Demonstrate knowledge of restrictions in public and private insurance and the ramifications of these restrictions in the care of patients

**Electives**

**Ophthalmology/Pediatrics**

**Adolescent Medicine Elective**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8410 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH) Arnold Palmer Hospital for Children****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The elective is designed to acquaint the student with the fundamentals of adolescent medicine by providing an outpatient, community-based exposure to the care of adolescents. Inpatient consultations will also be performed. The student will learn to perform a complete biopsychosocial history and physical examination of the adolescent. Introduction to adolescent gynecology and reproductive health will also be included.

**Objectives:**

1. Describe normal patterns of physical growth and pubertal development.
2. Conduct an appropriate adolescent interview, obtaining the required history while being sensitive to the needs of adolescent.
3. Demonstrate various techniques of separating the adolescent from the parent in order to conduct a confidential interview.
4. Demonstrate proficiency in counseling patients and parents about anticipated developmental changes in the various states of adolescence.
5. Describe the proper procedure for the adolescent gynecology examination.
6. Demonstrate proficiency in counseling adolescent patients about risk behaviors and risk prevention.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Orthopaedics Elective**

**Clerkship Director: Charles Price, M.D.**

**MDE 8485 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****Grading Basis: Pass/Fail****(OH)****Primary Faculty Supervisor: Dr. Charles Price** ***Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 4 each block****MDE 8485 7****Full-time (2-4 weeks)****(NCH) Pediatric Emergency Department****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Shiva Kalidindi** **Shiva.Kalidindi@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

Time will be divided between outpatient clinics, inpatient rounds and surgery. Weekly preoperative and post-operative clinics are held, as are didactic conferences. Call is encouraged but not required.

**Objectives:**

1. Upon completion of the course, the student should be able to perform a complete pediatric orthopaedic examination.
2. Be able to treat simple fractures and be aware of the dangers and possible complications of the more complicated fractures.
3. He/She should be able to apply a cast and able to use traction.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Otolaryngology Elective**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8900**

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| **Full-time (2-4 weeks)****(NCH) Nemours Childrens Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Cynthia Chen****(407) 414-1348,** **Cynthia.chen@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

This rotation is intended for students interested in but not excluding Pediatric Otolaryngology, Pediatrics, Family Medicine, Emergency Medicine, Critical Care, Allergy subspecialties, and Pulmonary subspecialties. Children with common chronic conditions such as sleep disordered breathing, chronic sinusitis, otitis media, hearing loss, etc frequently require Otolaryngological care. With this rotation, we hope to provide insight into how Otolaryngologists work with primary care physicians to evaluate, diagnose, determine surgical candidacy, provide surgical risk and complication counseling, and treat these common conditions. Students will also have opportunity to see complex Otolaryngology care involving Neuro-otologic procedures such as cochlear implantation, airways procedures, and head and neck surgeries.

Otolaryngologists are also frequently involved in the care of children with complex medical conditions, so students will be exposed to children with Downs syndrome and other craniofacial syndromes and abnormalities and participate in complex medical decision making.

Students will be expected to become familiar with guidelines for medical treatment and surgical candidacy as set forth by national societies such as the AAP and AAO-HNS.

The student will be expected to attend educational conferences such as surgical grand rounds, journal clubs, morbidity and mortality conference, and aerodigestive multidisciplinary conference. The student will be expected to give an 8-10 minute case and topic presentation at least once during the rotation. We hope that by the end of the rotation, the student will be come comfortable and competent with basic clinical skills specific to ENT, such as using otologic equipment with the microscope, performing nasal and laryngeal endoscopy, and understanding wound care.

**ELECTIVES**

**PSYCHIATRY/**

**NEUROLOGY**

**Electives**

**Psychiatry/Neurology**

**M4 Psychiatry Circles of Care (COC): Crisis Stabilization**

**MDE 8900 First Day: Report to 400 East Sheridan Rd., Melbourne, Fl**

**Full-time (4 weeks) 32901 @ 9:00 am**

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| **(PO) Circles of Care Crisis Stabilization Unit** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Panchanjanya Paul** ***Contact Person: Dr. Barry Hensel*** ***(321) 480-4982;*** ***bhensel@circlesofcare.org*****Maximum Enrollment: 1 per block**  |  |

Goal is to assume increased responsibility for psychiatric evaluations, treatment planning, and delivery to a wide range of patients presenting in psychiatric crisis. The student will gain valuable clinical experience in managing psychiatric crises, including experience diagnosing and managing the acute presentation of substance use disorders, detoxification procedures, and other therapies for this population. The COC Admitting Intake service and Crisis Stabilization Unit are busy clinical services with ample available patient care opportunities and experiences for the M4 student. The Clinical Preceptor at COC, Dr. Ahmad, is readily available to the M4 student on site. ptsdLimited on call but no weekend duties.

**Objectives:**

1. Demonstrate and clinically utilize medical knowledge and interview skills to perform screening assessments as well as a full intake psychiatric assessment in the COC Admitting Intake area, and formulate biopsychosocial treatment planning.
2. Implement, when indicated, acute psychiatric hospital admission, and assess patients daily in follow-up, monitoring and documenting clinical progress and altering diagnostic formulations and management in response to changes in the patient’s clinical course.
3. Formulate an individualized, patient-centered discharge plan for patients admitted to the COC Crisis Stabilization Unit.
4. Participate in the education of patients, families, and other healthcare professionals.
5. Demonstrate an awareness of the system for involuntary psychiatric treatment under Florida’s Baker Act and demonstrate ability to appropriately implement involuntary commitment when necessary.

**Learning Objectives:**

1. The student will provide coverage for the COC Admitting Intake area for emergency assessments. The student will conduct initial screening examinations to patients to determine if the patient meets the criteria for involuntary hospitalization or needs other treatment. The student will then be responsible for presenting the case to the Clinical Preceptor, Dr. Ahmad, and when indicated, formulate a draft of sample admission orders or other treatment plan.
2. The student will follow admitted patients in daily follow-up and will document progress notes.

**M4 Psychiatry Circles of Care (COC): Crisis Stabilization continued**

1. The student will participate as needed in multidisciplinary treatment team meetings for reviews of patients’ clinical course and management needs.
2. The student will be responsible for formulating individual discharge planning for patients and will write a draft Discharge Summary for patients they followed.
3. The student will participate in weekly informal didactics with the Clinical Preceptor, Dr. Ahmad.
4. When the Clinical Preceptor, Dr. Ahmad, is on call, the student will take calls up to 10pm, and will present and discuss the case with Dr. Ahmad for diagnosis and treatment planning.

**Electives**

**Psychiatry/Neurology**

**Pediatric Psychiatry in the Hospital Setting**

**MDE 8870 First Day: Report to Nemours Children’s Hospital lobby @**

**Full-time (4 weeks) 8:30 am**

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| **(NCH) Nemours Children’s Hospital** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Neil Boris,** **neil.borris@nemours.org*****Contact Person: Tiffany Oreste, (407) 567-3224;******tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

4th year students interested in a Psychiatry career will gain clinical experience with a broad range of patients from medically ill children to children presenting to a typical outpatient clinic. The inpatients will present with a wide range of health problems (cancer, cystic fibrosis, etc) often associated with various psychiatric morbidities (e.g. mood, anxiety, and/or family adjustment issues). On the outpatient service, students will work with multidisciplinary teams (e.g Pain Treatment team) and conduct videotaped intake interviews which will be reviewed to provide feedback on interview skills and creation of a differential diagnosis.

**Objectives:**

1. Effectively interview both children and adolescents, using collateral information from parents, in order to develop appropriate biopsychosocial evaluation and treatment plans for patients with various psychiatric conditions.
2. Understand the role of the psychiatrist on the pediatric wards and ICU by responding to consultations and creating readable and complete record of findings from the psychiatric exam.
3. Demonstrate liaison skills by working well with a variety of professionals (consulting physicians, nurses, social workers, child life specialists, etc) to uncover the question behind the consultation question and assist colleagues in managing children or families facing significant stressors.
4. Understand the principles, techniques, and indications for effective psychotherapies and behavioral medicine interventions in patients both with medical illnesses and being evaluated in an outpatient clinic.
5. Demonstrate interpersonal communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals.

**Learning Activites:**

1. Assistance with consults with application of psychiatric therapies (pharmacologic and psychotherapeutic).
2. The student will prepare a team-based learning case to be used by 3rd year students on pediatric rotation focusing on diagnosis or management of a specific child seen during the month.
3. Weekly videotaped intake interviews on the outpatient service.
4. Formal and/or informal didactics with Dr. Boris along with associated assigned readings.
5. Multidisciplinary therapeutic team meetings with Nemours staff members.

**Electives**

**Psychiatry/Neurology**

**M4 Outpatient Psychiatry at Coastal Mental Health Center (CMHC)**

**MDE 8900 First Day: Report to 571 Haverty Court, Suite Y, Rockledge,**

**Full-time (4 weeks) Fl, 32955 @ 9:00 am**

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| **(PO) Coastal Mental Health Center** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Christine Grissom** ***Contact Person: Dr. Christine Grissom*** ***(407) 712 – 4332;*** ***cagrissom@bellsouth.net*****Maximum Enrollment: 1 per block**  |  |

Goal is for the student to gradually assume increasing responsibility, under supervision, for the evaluation and evidence-based treatment of patients in the CMHC outpatient setting. The student will gain experience establishing a therapeutic alliance with a patient population of all ages, with a wide variety of psychiatric disorders with comorbidities, and arrange of acuity of treatment needs. Responsibilities may also include some limited teaching of 3rd year UCF COM medical students. The intern’s hours will be Monday – Thursday 9:00am to 7:00pm, divided between the 2 CMHC sites. No on-call, no weekend duties.

**Objectives:**

1. Perform and document a complete psychiatric diagnostic evaluation, identifying psychopathology, and developing appropriate biopsychosocial evaluation (laboratory, radiologic, and psychological testing) and treatment plans. Once emphasis will be on establishment of a therapeutic alliance and rapport; during follow-up visits, the patient’s progress and course (including any ordered laboratory studies), diagnoses, and treatment plan, will be assessed and revised as indicated, with appropriate documentation.
2. Appropriately utilize the indications for psychiatric hospitalization, considering presenting problem and its acuity, risk of danger to patient or others, community resources, and family support; when necessary, help implement the process of involuntary hospitalization.
3. Demonstrate the ability to appraise and assimilate scientific evidence, utilizing relevant databases of psychiatric evidence-based medicine, to improve patient care and teach 3rd year medical students rotating in Psychiatry.
4. Demonstrate interpersonal communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals and students.
5. Student will develop skills for patient transition to successful terminations of treatment when indicated, with appropriate documentation.

**Learning Activities:**

1. Daily supervised patient evaluation and treatment in the outpatient setting. Patient assessments and treatment plans/disposition will be presented and discussed with Dr. Grissom.
2. Attend multidisciplinary treatment team meetings.
3. Ongoing use of medical/scientific databases at point of care to ensure use of evidence-based medicine.

**Electives**

**Psychiatry/Neurology**

**Psychiatry Elective**

**MDE 8836 6 First Day: Report to 119 Pasadena Place, Orlando, Fl**

**Full-time (4 weeks) 32803 @ 9:00 am**

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| **(PV) Pasadena Villa (Residential)** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Myrtho Mompoint-Branch****drbranch@pasadenavilla.com*****Contact Person: Jessica Cuadros,*** ***(407) 246-5254;*** ***Jessica.cuadros@pasadenavilla.com******; drbranch@pasadenavilla.com*** **Maximum Enrollment: 1-2 per block**  |  |

Goal is to assume responsibility for psychiatric intake assessments for Pasadena patients who have a wide variety of psychiatric disorders. Become familiar with the transitional program at Pasadena Villa which helps patients work on life skills. No on-call. No weekend duties.

**Objectives:**

1. Perform and document complete psychiatric diagnostic evaluations in a residential care setting. The patient population has a variety of various psychiatric disorders including Autism Spectrum Disorders.
2. Identify psychopathology and develop appropriate biopsychosocial evaluation and treatment plans.
3. Demonstrate good interpersonal and communication skills that results in effective exchange of information with patients, families, and the treatment team.
4. Demonstrate ability to review professional literature and utilize evidence-based medicine to improve patient care.
5. Demonstrate and apply knowledge of psychopharmacology topics in treatment planning and management.
6. Demonstrate an ability to monitor and document patient’s clinical progress and update recommendations for treatment plan as indicated.

**Learning Activities:**

1. The student will present a topic in medication group to help the patients understand medications, side effects or mechanisms of actions.
2. The student will attend the transitional living and learning groups at Pasadena.
3. The student will participate in multidisciplinary treatment team meetings to provide feedback on assigned patients.
4. The student will prepare an in-service didactic presentation on relevant topic in Psychiatry to present to staff.
5. Informal discussions Dr. Branch of assigned readings.

**Electives**

**Psychiatry/Neurology**

**Post-Traumatic Stress Disorder Clinic**

**MDE 8844 First Day: Report to UCF Main Campus Psychology**

**Full-time (4 weeks) Building 301A @ 9:00 am**

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| **(UCFM) UCF Main Campus** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Deborah Biedel** ***Contact Person: Sandra Neer, (407) 823-1668;*** ***Sandra.neer@ucf.edu*****Maximum Enrollment: 1 per block**  |  |

Students will be under the direct supervision of licensed psychologists, as this unique rotation focuses on advanced psychotherapeutic assessment and treatment. Other medical and psychopharmacologic treatment will be provided only by outside consultants and is not the focus of this rotation.

**Objectives:**

1. Diagnosis, assessment and treatment of combat veterans with post-traumatic stress disorder (PTSD). Students will learn to conduct structured diagnostic interviews, participate in the conduct of individualized, virtual reality assisted exposure therapy, and group therapy that includes social reintegration strategies, anger management strategies and behavioral activation.

2. Students interested in pediatrics may participate in our program where we use virtual reality in the treatment of children with social anxiety disorder and selective mutism. Students will participate in all phases of the clinical research program including diagnostic interviewing, behavioral assessment and behavior therapy.

**Patient Care:** Learn advanced interviewing and psychotherapy techniques for adults and children with anxiety disorders.

**Medical Knowledge:** Demonstrate good fund of knowledge and clinical reasoning in provision of diagnosis and intensive psychotherapeutic treatment of PTSD and other anxiety disorders.

**Practice Based Improvement:** Demonstrate initiative in searching for and the application of research findings in the treatment of this population.

**Interprofessional and Communication Skills:** Provide clear and accurate communication about anxiety disorders with patients, parents, and other professionals.

**Professionalism:** Demonstrate ability to work well with professionals from other disciplines in the provision of group therapies to this patient population.

**Systems Based Practice:** Show ability to access and utilize outside resources for the continuity of care of patients.

**Post-Traumatic Stress Disorder Clinic continued**

**Learning Activites:**

Participate in intake evaluations – will be trained to administer self-report inventories and computerized diagnostic assessments. Will be trained in ability to assist in conducting behavioral assessments. Will serve as “co-leader” for group therapy. Will be trained to assist in conduct of exposure therapy sessions when appropriate.

**Electives**

**Psychiatry/Neurology**

**Cancelled: Geriatric Psychiatry Elective**

**Clerkship Director: Martin Klapheke, M.D.**

**MDE 8883 9**

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| **Full-time (4 weeks)****(PO) Life Care Center (LCC) of Altamonte Spring****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Mark Williams and****Dr. Eduardo Diaz*****Contact person: Dr. Mark Williams******(407) 947-0864;*** ***willygator@mindspring.com*****Maximum Enrollment: 1 each block (Requires Consent of Instructor)** | **First Day: Report to LCC of Altamonte Spring, 989 Orienta Avenue, Altamonte Springs, FL 32701 @ 8:30 a.m.** |

Goal is to assume responsibility for supervised mental health consultations and treatment planning for a predominant geriatric population in nursing care at LCC. This 180+ patient population includes: 2 long-term care units, a locked unit for patients with dementia; and a rehabilitation unit (for patients recovering from stroke, recent surgery, etc.). In addition to the geriatric patients, the student may also gain some experience with younger LCC patients needing short-term care, (e.g., due to multiple sclerosis, etc.). No on-call or weekend duties.

**Objectives:**

1. Perform and document mental health consultations in geriatric patient population and develop appropriate biopsychosocial evaluation and treatment plan.
2. Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families and other health professionals.
3. Demonstrate the ability to monitor and document patients’ clinical progress, and alter diagnostic formulation and management in response to changes.
4. Demonstrate knowledge of the epidemiology, clinical features, course and prognosis, diagnostic criteria, differential diagnosis, and treatment strategies for the major classes psychiatric disorders that are especially common in the geriatric population, including dementia, delirium, and mood disorders; evaluate each patient for potential relationships between medical and psychiatric illnesses, for potential history of abuse or neglect, and for decision-making capacity.
5. Summarize the indications and contraindications, basic mechanisms of action, pharmacokinetics and pharmacodynamics, efficacy and cost, common and serious side effects, toxicity, drug-drug and drug disease interactions, and issues relevant to the geriatric population, of each class of psychotropic medications and demonstrate the ability to select and use the agents to treat mental disorders.
6. Identify the indications and benefits/risks, precautions and appropriate use of restraints and one-to-one sitters.

**Electives**

**Psychiatry/Neurology**

**CANCELLED: Clinical Psychiatric Pharmacology**

**Clerkship Director: Martin Klapheke, M.D.**

**MDE 8838 9**

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| **Full-time (4 weeks)****(PO) Accurate Clinical Trials** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Charles Bailey*****Contact person: Cary Cortes******(407) 483-0989;*** ***ccortes@accurateCT.com*****Maximum Enrollment: 1 each block**  | **First Day: Report to Accurate Clinical Trials Inpatient Unit, 206 Park Place Blvd., Orlando, FL @ 8:00 a.m.** |

Participate in daily rounds. Interviewing and communication skills and interaction with inpatient subjects. Review clinical trial protocols. Introduction to and implementation of primary efficacy scales. Instructions in regulatory and quality assurance procedures. Training in Good Clinical Practices (GCP), FDA and National institute of Health (NIH) requirements. Didactic discussion of pharmacology related to clinical compounds and receptors.

**Objectives:**

1. Obtain a practical understanding of methods and procedures for clinical trials.
2. Understand the describe components of a clinical trial period.
3. Carry out protocols for a clinical research trial while maintaining Good Clinical Practices.
4. Understand and discuss principles of pharmacology in clinical research.
5. Be able to determine patient’s compatibility with research studies.
6. Be able to obtain and synthesize relevant patient information to meet the goals of the research study.

**Electives**

**Psychiatry/Neurology**

**Neurodegenerative Disease: Research & Clinical Care**

**Clerkship Director: Michael Bellew, M.D.**

**MDR 8802 9**

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| **Full-time (2-4 weeks)****(PO) Compass Research****100 W. Gore St., Orlando, FL****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Ira Goodman****ijgmd@aol.com*****Contact person: Kimberly Murphy, Office Manager,*** ***kmurphy@compass-clinic.com*****Maximum Enrollment: 1 each block by permission** | **First Day: Report to Compass Research, 100 W. Gore St., Orlando, FL @ 9:00 a.m.** |

The focus of the elective is to provide students an intensive exposure to evaluation and management of patients with neurodegenerative disease, with a focus on Alzheimer’s dementia and Parkinson’s disease. The clerkship director (Dr. Riggs) has fellowship-level training in these areas, and the primary faculty (Dr. Goodman) has over 20 years’ experience in care and evaluation of these patients. The elective will take place in the context of patients referred for possible participation in clinical trials, and exposure to clinical trial methodology is an additional focus. No on-call duties, no weekend activity.

**Objectives:**

1. Demonstrate the ability to assess patients with neurodegenerative disease; generate a thorough differential diagnosis for such patients; plan initial diagnostic and treatment interventions; discuss eligibility for clinical trials.

**Electives**

**Psychiatry/Neurology**

**Not Currently Available: Neuro-Oncology**

**Clerkship Director: Michael Bellew, M.D.**

**MDE 8807 1**

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| **Full-time (2 weeks)****(FH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Sajeel Chowdhary*****Contact person: Paulette Gitles,*** ***paulette.gitles@flhosp.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to 2501 N. Orange Ave., Suite 286 @ 8:00 am. Tell Barbara you are working with Dr. Chowdhary** |

The focus of the elective is to provide students an intensive exposure to evaluation and management of patients with brain tumors and other neurologic complications of cancer. No on-call duties. Weekend coverage at the discretion of the attending physician depending on patient load.

**Objectives:**

1. Demonstrate competence in the medical, neurological, and psychosocial assessment of patients with brain tumors; demonstrate interpersonal and communication skills necessary to counsel patients and families with life-threatening illness, demonstrate familiarity with standards of care for patients with brain tumors and neurological complications of cancer.

**ELECTIVES**

**RADIOLOGY/**

**ANESTHESIOLOGY/**

**EMERGENCY MEDICINE**

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Radiation Oncology Elective**

**MDE 8780 First Day: Report to Health First Cancer Services (HFCS)**

**Part-time (2 weeks) 1130 S. Hickory St., Ste A, in Melbourne, Fl @ 8:00 am**

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| **(HF) Health First Cancer Services** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Nanialei Golden** ***Contact Person: Dr. Nanialei Golden,*** ***(321) 409-1956 ;*** ***nanialei.golden@mima.com*****Maximum Enrollment: 2 per block** **MDE 8780 First Day: Report to Winter Park Cancer Center @ 8:00 am** **Not Currently Available****Full-time (4 weeks)**

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| **(PO) Winter Park Cancer Center** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Alan J. Forbes** ***Contact Person: Dr. Alan Forbes,*** ***(407) 478-4920 ;*** ***alanforbes@gmail.com*****Maximum Enrollment: 2 per block**  |  |

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Students will participate in all aspects of Radiation Oncology patient care from initial consultation and work up to simulation/treatment planning, radiation physics/dosimetry, and daily treatment. Students will gain an understanding of general cancer management from common to rare cancers. Depending on the types of cancer under treatment during the rotation, there may be opportunities to observe brachytherapy in the operating room or other special procedures. Students will attend weekly Multidisciplinary Tumor Board and weekly Radiation Oncology Chart Rounds.

**Objectives:**

1. Understand the role radiation plays in cancer management.
2. Expand clinical knowledge of cancer and its various treatment options.
3. Understand common radiation side effects, specific causes and their management. Dispel radiation myths.
4. Enhance bedside manner, potentially improve conversations skills in patient communication in difficult circumstances.
5. Cancer management requires the interaction of multiple specialties including Medical Oncology, Surgical Oncology, Gyn Onc, Radiology and Pathology. Students will be part of this interaction.
6. Understand how cancer can impact multiple body systems and how cancer management impacts other synchronous illnesses.

**Learning Activities:**

This rotation is entirely outpatient. Students will attend weekly Multidisciplinary Tumor Board and weekly Radiation Oncology Chart Rounds. Students will gain a general understanding of radiographic anatomy as it pertains to contouring cancer volumes, normal organ volumes and organs at risk of potential radiation damage. Literature review will be focused around patient population currently under treatment including the most common cancers (breast, prostate, lung).

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Diagnostic Radiology Clerkship**

**Clerkship Director: Laura Bancroft, M.D.**

**MDE 8763 1**

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| **Variable (2-4 weeks)****(FH) Radiology Department****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Laura Bancroft****Laura.bancroft.md@flhosp.org*****Contact person: Patti Horvath,******(407) 303-6973;*** ***patti.horvath@flhosp.org*****Maximum Enrollment: 1 each block**  | **First Day: You will receive an email from Patti Horvath the Friday before the start of your rotation. This email will include the name of the physician you will be working with, rotation name, campus location, and time.**  |

This rotation is open to all M4s and is particularly suited to students who have completed a general radiology elective or plan to pursue a career in Radiology. The student will gain experience in this exciting field which will utilize all modalities of radiology (general radiography, ultrasound, fluoroscopy, nuclear medicine, CT, and MRI). Students will particulate pin radiology procedures, readout of cases and weekly case presentations. There are no call or weekend responsibilities.

Rotations can be general diagnostic radiology which will give an overview of all modalities—or specialty-specific rotations (i.e. Angio-interventional Radiology, Pediatric Radiology, Neuroradiology, Nuclear Medicine, Cardiac Radiology, Body (MRI, CT, US, Oncology combined); Musculoskeletal Radiology, and Women’s Radiology.

**Objectives:**

1. Understand the clinical radiographic indications for a variety of imaging modalities and examinations.
2. Understand the major procedure-specific activities of physicians and associated pediatric patient experiences for the differing image modalities.
3. Gain familiarity and develop basic interpretive and diagnostic skills regarding the radiographic appearance of common pediatric pathological processes for commonly utilized imaging modalities.
4. Develop basic skills required for the professional presentation of radiologic material for daily work rounds and weekly case conferences.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Neuro-Radiology**

**Clerkship Director: Michael Bellew, M.D.**

**MDE 8767 9**

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| **Full-time (2 weeks)****(PO) Neuro-Skeletal Imaging of Winter Park****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Marc Shapiro*****Contact person: Dr. Marc Shapiro******(407) 478-1550;*** ***shapmd@gmail.com*** ***&*** ***vscott@nueroimagingwp.com*** ***& Richard Duemmling*** ***RDuemmling@neuroimagingwp.com*****Maximum Enrollment: 1 each block**  | **First Day: Report to NSI of Winter Park, FL, 2111 Glenwood Drive., Suite 101, Orlando, FL 32792****@ 9:00 a.m.** |

The focus of the elective is to provide students an intensive exposure to various modalities used in imaging the central nervous system, with a focus on MRI or CT. Students will gain experience interpreting results. No on call-duties and no weekend coverage.

**Objectives:**

1. Demonstrate competence in the selection of imaging tests to evaluate central nervous system structure and physiology; demonstrate familiarity with standards of care for patients undergoing neuro-imaging procedures; demonstrate basic skills in interpretation of common neuroimaging modalities.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Pediatric Radiology**

**Clerkship Director: Laura Varich, M.D.**

**MDE 8769 1**

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| **Full-time (2 or 4 weeks)****(FH) Radiology Department****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Laura Varich*****Contact person: Patti Horvath,******(407) 303-6973;*** ***patti.horvath@flhosp.org*****Maximum Enrollment: 1 each block**  | **First Day: You will receive an email from Patti Horvath the Friday before the start of your rotation. This email will include the name of the physician you will be working with, rotation name, campus location, and time.** |

**MDE 8769 7**

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| **Full-time (2 or 4 weeks)****(NCH) Nemours Children’s Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. David Dinan,** **david.dinan@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

This rotation is open to all M4s and is particularly suited to students who have completed a general radiology elective or plan to pursue a career in a pediatric specialty. The student will gain experience in this exciting field which utilizes all modalities of radiology (general radiography, ultrasound, fluoroscopy, nuclear medicine, CT and MRI). Students will participate in radiology procedures, read-out of cases, and weekly case presentations. There are no call or weekend responsibilities.

**Objectives:**

1. Understand the clinical and radiographic indications for a variety of pediatric imaging modalities and examinations.
2. Understand the major procedure specific activities of physicians and associated pediatric patient experiences for the differing modalities.
3. Gain familiarity and develop basic interpretive and diagnostic skills regarding the radiographic appearance of common pediatric pathological processes for commonly utilized imaging modalities.
4. Develop basic skills required for the professional presentation of radiologic material for daily work rounds and weekly case conferences.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Pediatric Emergency Medicine**

**Clerkship Director: Jose Rubero, M.D.**

**MDE 8505 1**

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| **Full-time (4 weeks)****(FH) Pediatric Emergency Department****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Dennis Hernandez*****dmkhern@aol.com*** ***or*** ***dhernandez.em@gmail.com******Contact person: Katherine Bradford, Program Coordinator******(407) 303-6413;*** ***Katherine.bradford@flhosp.org*****Maximum Enrollment: 1 each block** **MDE 8505 7****Full-time (4 weeks)****(NCH) Pediatric Emergency Department****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Shiva Kalidindi** **Shiva.Kalidindi@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to (FH) Radiology Dept., 601 Rollins Ave., Orlando, FL @ 8:00 a.m.****First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

**MDE 8505 5 First Day: Students should contact Ann Bravo-Garcia**

**Full-time (4 weeks) for instructions**

**(HCA) Osceola Regional Pediatric Emergency Department**

**Grading Basis: Pass/Fail**

**Primary Faculty Supervisor: Dr. Jeffery Bergman**

***Contact person: Ann Bravo-Garcia, (321) 697-1736;***

***ann.bravogarcia@hcahealthcare.com***

**Maximum Enrollment: 2 each block**

The course is designed to expose the student to patient assessment and emergency management of a large number of pediatric patients entering a metropolitan Pediatric Emergency Department. Instruction is centered around bedside clinical supervision by faculty and residents in a busy Pediatric Emergency Department. Students will be expected to prepare a 45 minute case presentation from one of the cases encountered during their rotation.

Students will work eight hour shifts with approximately 5 shifts per week. These shifts will include 2 weekends per month. Shifts will be distributed between day and evening (not overnight) shifts.

**Objectives:**

* 1. Gain exposure to both emergent and urgent care of pediatric patients.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Emergency Medicine Elective**

**Clerkship Director: Jose Rubero, M.D.**

**MDE 8710 1**

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| **Full-time (4 weeks)****(FH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Dale Birenbaum, Dr. Steve Nazario, Dr. Bethany Ballinger, Dr. Ademola Adewale, Dr. Alfredo Tirado, & Dr. Dennis Hernandez*****Contact person: Katherine Bradford, Program Coordinator*** ***(407) 303-6413;*** ***Katherine.bradford@flhosp.org*****Maximum Enrollment: Varies**  | **First Day: Report to (FH) East Orlando Emergency Medicine Residency Office, Orlando, FL @ TBA** |

This course is designed to expose the student to patient assessment and Emergency Department management of a large number of patients entering a metropolitan Emergency Department and Pediatric Emergency Department. During this elective, the student will have responsibilities, supervision, and performance expectations comparable to that of a starting first year EM resident. Instruction is centered around bedside clinical supervision by faculty and residents in two busy Emergency Departments. A comprehensive didactic schedule is provided and includes conferences prepared for residents and students, as well as conferences designed exclusively for students. If available, there will be teaching time dedicated to the use of Ultrasound in the Emergency Medicine setting.

**Objectives:**

1. Perform an appropriate history and physical examination on pediatric, adult, and geriatric patients.
2. Recognize common, urgent, and emergent problems, and develop a differential diagnosis for these common presentations.
3. Interpret results of common lab studies, recognize basic ischemic patterns and arrhythmias on EKG tracings and interpret radiographs of the chest, abdomen, and extremities.
4. Recognize the indications for the specialty or subspecialty consultation and/or admission.
5. Apply real time data acquisition to patient management.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Anesthesia Elective**

**Clerkship Director: Eugene Freid, M.D.**

**MDE 8700 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Eugene Freid*****Contact person: Rachel Facunla, (407) 667-0444 x173;*** ***rachel.facunla@usap.com*****Maximum Enrollment: 1 each block**  | **First Day: Contact Dr. Eugene Freid at (407) 686-5787,** **Eugene.freid@usap.com** **one week before the start of the rotation for reporting instructions. Start time will be 7:00 am.** |

Under the supervision of attending physicians the 4th year student will participate in the care of patients requiring local, regional, and general anesthesia at various levels. Work hours will fall within current ACGME guidelines. In house call will not be a requirement.

**Objectives:**

1. Clinical Skills

All students completing this rotation will be able to demonstrate competency in:

1. Insertion of an intravenous line
2. Basic Airwar Management—the student should be able to perform an airway exam, demonstrate proper use of oral/nasal airways, show different ways of delivering oxygen to patients, perform bag-mask and bag-endotracheal tube ventilation on patients, and demonstrate the ability to perform basic laryngoscopy / intubation, and atraumatic placement of laryngeal mask airway (LMA).
3. Didactics

All students completing this rotation will receive didactics on the following areas:

1. Basic pharmacology of various anesthetic agents
2. Airway Management:
3. Anatomy of the airway (adults vs. pediatric)
4. Airway assessment
5. Basic skills and tools to maintain ventilation and oxygenation
6. Outline the proper and sage way of inducing patients including rapid sequence inductions
7. Outline basic intubation techniques
8. Outline the Difficult Airway Algorithm
9. The role of the anesthesiologist as a perioperative physician
10. Outline the important aspects of pre-operative assessment, risk stratification, and medical optimization of patients. Learn the ASA physical status classification.
11. Outline the critical aspects of intra-operative anesthetic management during induction, maintenance, and emergence from anesthesia. Learn the various non-invasive and invasive intra-operative monitors. Teach the basic concept of the anesthesia machine.
12. Outline the post-surgical care of patients including critical care and pain management.
13. Problem Based Learing (PBL) Sessions

a. Students will be exposed to a series of PBL sessions designed to illustrate common clinical anesthesia problems.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Anesthesia Elective**

**Clerkship Director: Myriam Garzon, M.D.**

**MDE 8702 3**

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| **Full-time (2 weeks)****(VA)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Tejash Dungarani,** **tdungarani@gmail.com*****Contact person: Andrea Gelber,*** ***andrea.gelber@va.gov*****Maximum Enrollment: 1 each block**  | **First Day: On the first day, report to Orlando VA Medical Center, room 202, to meet Dr. Garzon @ 8:00 a.m. Students should email Andrea Gelber to get computer access codes.** |

The University of Central Florida College of Medicine Selective in Anesthesia will introduce the student to evidence based care of the patient requiring surgery in an outpatient setting. They will have exposure to local, regional, or general anesthesia as well as the necessary preparation and care rendered in the preoperative and perioperative setting. The student will spend 2-4 weeks on the anesthesia service. Students will be responsible for the evaluation and workup of patients in the outpatient setting. There will also be opportunity for evaluation and assessment for patients receiving care for chronic pain. The student will be responsible for regular attendance. Students will be exposed to a series of practice based learning (PBL) sessions designed to illustrate common clinical anesthesia problems.

**Objectives:**

**Medical Knowledge:**

1. Begin to learn the fundamentals of anesthesiology as applied to surgery. Examples include the effect of induction agents, inhalation anesthetic agents, and muscle relaxants. Students should obtain an understanding of the effect of these agents on the respiratory physiology, circulatory physiology, and the fluid and electrolyte balance of the surgical patient. Evaluation of blood gas analysis and treatment of acid/base disorders.
2. Begin to understand the anesthesia preoperative exam and the concerns faced by the anesthesiologist when anesthetizing a surgical patient.
3. Understand the reasoning for ordering diagnostic laboratory procedures in the preoperative patients. Examples include liver function tests, serum chemistries, arterial blood has analyses and hematologic profiles.
4. Begin to understand the different types of anesthetic care. *Examples include general anesthesia, spinal anesthesia, epidural anesthesia, and regional anesthesia and an understanding of when the various types of anesthetic care are indicated and which patients will benefit from regional versus general aneesthesia.*
5. Begin to understand the commonly used anesthesia non-invasive monitors and the anesthesia machine.
6. Begin to understand the methods of securing/supporting an airway and associated complications.
7. Anatomy of the airway (adult vs. pediatric)
8. Airway assessment

**Anesthesia Elective—Continued**

**Clerkship Director: Michelle Petrovic, M.D.**

1. Basic skills and tools to maintain ventilation and oxygenation
2. Outline the proper and safe way to inducing patients including rapid sequence inductions
3. Outline basic intubation techniques
4. Outline the Difficult Airway Algorithm
5. Perform a successful laryngoscopy and intubation on an adult with normal anatomy.
6. Begin to understand the medical procedural treatment of chronic pain syndromes.

**Patient Care:**

1. Perform pre-anesthetic physical examinations including specific knowledge regarding the patient’s airway and possible need for advanced airway intubation techniques. Basic Airway management—the student should be able to perform an airway exam, demonstrate proper use of oral/nasal airways, show different ways of delivering oxygen to patients, perform bag-mask and bag-endotracheal tube ventilation on patients, and demonstrate the ability to perform basic laryngoscopy/intubation, and atraumatic placement of laryngeal mask airway (LMA).

**Interpersonal Communication Skills:**

1. Demonstrate skill and sensitivity when counseling and educating patients and their families in a variety of anesthesia options.
2. Work effectively with the health care team.
3. Present patients in a concise, organized, logical, and knowledgeable manner.
4. Exhibit honesty, reliability, good communication skills, and appropriate judgment.

**Practice-Based Learning and Improvement:**

1. Use textbooks and journal articles to learn principles of anesthesia as applied to surgery.
2. Attend department of surgery conferences.

**Systems-Based Practice:**

1. Understand the relationship and shared responsibilities between anesthesiologists and surgeons.

**Professionalism:**

1. Demonstrate adequate communications skills while dealing directly with patients.
2. Arrive in the OR on time, prepared for the procedure.

**Procedures:**

Under appropriate supervision, the student will have the opportunity to assist and at times perform basic anesthesia procedures such as:

 Tracheal intubation using different techniques

 Regional anesthesia, spinal and epidural

 Placement of intravenous lines

**ELECTIVES**

**SURGERY**

**Electives**

**Surgery**

**Cardiothoracic Surgery Elective**

**MDE 8632 5 First Day: Report to Central Florida Cardiac & Vascular**

**Full-time (4 weeks) Institute (CVICU) at Osceola Regional Medical Center @**

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| **(HCA) Osceola Regional Medical Center 7:00 am** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Kristopher George** ***Contact Person: Brittany Pridham, RN, BSN; (407) 846-0090;*** ***Brittany.pridham@hcahealthcare.com*****Maximum Enrollment: 1-2 per block**  |  |

This rotation is intended for the student with interest in Cardiothoracic Surgery. The medical student will be expected to be involved in the workup, diagnosis, treatment, and follow up of patients with a wide variety of cardiothoracic surgical diseases. The student will be involved with the patient evaluation in the emergency department, outpatient clinic, and inpatient setting. He/She will also be involved in daily inpatient rounds, outpatient clinic, minor procedures, as well as well as major operations. Call will primarily be every other weekend.

**Objectives:**

**Patient Care:**

1. Recognize common cardiothoracic surgical problems and emergencies.

2. Recognize cardiothoracic surgical complications.

3. Assist with the workup of new patients in the emergency department, outpatient clinic, and inpatient setting.

4. Assist in preparing patients for discharge.

**Medical Knowledge:**

1. Learn the fundamentals of basic sciences in cardiothoracic surgery.

 2. Learn cardiovascular physiology, nutrition, hemodynamics, and fluids and electrolytes.

 3. Read for the operative cases and be prepared for the OR.

 4. Understand the pathology of cardiovascular and thoracic diseases.

 5. Understand diagnostic tests commonly used cardiothoracic patients.

 6. Practice evidence-based medicine by reviewing the literature.

**Practice Based Improvement:**

 1. Utilize a cardiothoracic surgery textbook and journal articles to study cardiothoracic diseases.

 2. Document your activities in the chart in a timely fashion.

**Interprofessional and Communication Skills:**

 1. Learn to communicate well with families.

 2. Learn to interact with the surgical team.

**M4 Clerkship in Cardiothoracic Surgery continued**

 3. Work well with other members of the health care team.

**Professionalism:**

 1. Continue life-long learning.

 2. Maintaining confidentiality of patient information.

 3. Maintain sensitivity to others’ cultures, age, gender, and disabilities.

 4. Maintain accountability for personal actions and decisions.

**Systems-Based Practice:**

 1. Only communicate with families under the direction of Faculty.

 2. Communicate with the health care team members about the surgical patients.

**Learning Activities**

The medical student will present in daily inpatient rounds, attend clinic, and participate in surgery. He/She will also practice evidence-based medicine by performing literature searches on the cardiothoracic surgery diseases of their patients.

**Electives**

**Surgery**

**Clinical Elective in Vascular Surgery**

**MDE 8605 3 First Day: Report to Specialty Clinic, Orlando VAMC,**

**Full-time (4 weeks) 5201 Raymond Street, Building 500 @ 8:00 am**

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| **(VA) VA Lake Baldwin Specialty Clinic** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Frederick Fisher** ***Contact Person: Eileen Slater, (407) 629-1599 x1143;*** ***Eileen.slater@va.gov*****Maximum Enrollment: 2 per block**  |  |

Goal of clinical elective is to expose fourth year medical students to the vast array of vascular disease seen at a busy Veterans Administration Hospital including the risk factors for disease, clinical presentation, and treatment modalities. The risk factor modification for these patients with multiple medical co morbidities will be stressed. The history and physical findings will be the cornerstone of the workup for these patients with appropriate laboratory and radiologic studies based on the findings. Treatment options will include non-surgical approaches, minimally invasive approaches and surgical approaches. Since these patients have multiple organ systems affected by their diseases, the students will need to integrate many of the disciplines they have learned over the first three years of medical school training. This will give the students an early opportunity to sharpen clinical skills in history taking, physical diagnosis, and decision making. These skills have a broad application to all fields of medicine, so elective is appropriate to students interested in surgery or non-surgical fields.

The radiology department works closely with the vascular surgery department so the student will have ample opportunities to review studies in radiology. The students will follow their patients to the operating room and the PACU to further their learning of the disease process.

The student will be given the opportunity to create a presentation of one or two patients to the members of the department at either the multidisciplinary conference or the surgical conference. If the presentation warrants publication in a peer reviewed journal, then the student may go on to write a case report for submission with the assistance of the clerkship director.

Initially there will be no night or weekend activities. Once the VA hospital opens there will be opportunity to incorporate this into the program.

**Objectives:**

1. Identify and respect patients’ differences and expressed needs.
2. Listen to, clearly inform, and communicate well with patients.

**Clinical Elective in Vascular Surgery continued**

1. Share decision making management with emphasis on disease prevention and wellness with a promotion of healthy lifestyles.
2. Use established and evolving clinical and basic science knowledge to further patient care.
3. Assimilate appropriate scientific evidence to improve patient care.
4. Improve communication skills regarding information transfer with patients and their families.
5. Maintain professional behavior with strict adherence to accepted ethical standards.

**Learning Activities:**

1. Patient care will include daily patient visits in clinic. Student will be given advance notice of specific type of clinical problems to prepare for the encounter. After each patient visit a review of appropriate history and physical including relevant radiologic studies will occur with the instructor.
2. Student will be present in operating room twice on most weeks.
3. Review of literature will be continuously stressed by the instructor.
4. Student will be given opportunity for case presentation as noted above.

**Electives**

**Surgery**

**Plastic Surgery 4th Year Elective**

**Clerkship Director: George Pope, M.D., FACS**

**MDE 8660 9**

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| **Full-time (4 weeks)****(PO) Orlando Plastic Surgery Center****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. George Pope****georgehpope@gmail.com*****Contact person: Dana Capps, Practice Manager******(407) 857-6261;*** ***dana@orlandoplasticsurgerycenter.com*****Maximum Enrollment: 1-2 each block** | **First Day: Report to Orlando Plastic Surgery Center, 3872 Oakwater Circle, Orlando 32806 at 8:15 am. Wear office attire or white coat.**  |

Students will gain exposure to the diverse specialty of plastic surgery by working in office, operating room and hospital settings, (Orlando Health and Florida Hospital), with a number of private practice surgeons, whose differing interests will provide a broad exposure. Occasional weekend cases may exist if an attending is on ER call.

**Objectives:**

1. Understand basic principle of wound management, with emphasis on preservation of vital tissues and structures.
2. Demonstrate proficiency in basic suturing techniques.
3. Have a basic understanding of the broad specialty of plastic surgery.
4. Show competence in the evaluation of plastic surgery using a problem-based approach to formulate a surgical plan.

**Electives**

**Surgery**

**Orthopaedic Patient Care and Surgical Techniques**

**MDE 8900 First Day: Determined on an individual basis. Contact**

**Full-time (4 weeks) Jeanetta Lawrence for instructions.**

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| **(PO) Jewett Orthopaedic Clinic** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Michael Jablonski** ***Contact Person: Jeanetta Lawrence,*** ***jlawrence@jewettortho.com******; Susan Kemper,*** ***skemper@jewettortho.com******; Kendra Schanback,*** ***kschanback@jewettortho.com*****Maximum Enrollment: 4 per block**  |  |

**Program Overview:**

1. Ability to collect/organize a meaningful history.
2. Ability to perform a thorough and accurate evaluation.
3. Ability to organize and access data.
4. Self learning.
5. Technical skills.
6. Interpersonal relations with patients/health team.

**Objectives**

**Patient Care:**

1. Identify, respect, and care about patient differences, values, preferences, and expressed needs.
2. Listen to, clearly inform, communicate with, and educate patients.
3. Share decision making and management.
4. Continuously advocate disease prevention, wellness, and promotion of healthy lifestyles, including a focus on population health.

**Medical Knowledge:**

1. Established and evolving biomedical, clinical, and cognate (e.g. anatomical, physiological, and social behavioral) sciences and the application of knowledge of patient care.

**Practice-Based Learning and Improvement:**

1. Involves investigation and evaluation of one’s own patient care, appraisal and assimilation of scientific evidence, and improvements in patient care.

**Interpersonal and Communication Skills:**

1. That result in effective information exchange and teaming with patients, their families and other health professionals.

**Professionalism:**

**Orthopaedic Patient Care and Surgical Techniques continued**

1. Commitment to carrying out professional responsibilities, adherence to ethical principles and sensitivity to a diverse population.

**Systems-Based Practice:**

1. Actions that demonstrate an awareness of and responsiveness to the larger context and system of health

 care and the ability to effectively call on system resources to provide care that is of optimal value.

**Learning Activities:**

 1. Hospital rounds, patient assessment, surgical technique

**Electives**

**Surgery**

**Trauma and Orthopaedic Elective**

**Clerkship Director: Andrew Burgess, M.D., & Thomas Csencsitz, M.D.**

**MDE 8683 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Kenneth Koval****Kenneth.Koval@orlandohealth.com*****Contact Person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 2 each block** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

Students work closely with the attending physicians and residents of the Department of Orthopaedics at ORMC to gain exposure to various aspects of orthopaedics including trauma in one of the busiest level one trauma centers in the nation. Call is encouraged but not required.

**Objectives:**

1. Upon completion of the course, the student should be able to perform a complete pediatric orthopaedic examination.
2. Be able to treat simple fractures and be aware of the dangers and possible complications of the more complicated fractures.
3. He/She should be able to apply a cast and able to use traction.

**Electives**

**Surgery**

**Pediatric Neurosurgery**

**Clerkship Director: Michael Bellew, M.D.**

**MDE 8491 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block** **MDE 8491 7****Full-time (2-4 weeks) First Day: Report to Nemours Children’s Hospital**

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| **(NCH) Nemours Children’s Hospital lobby @ 8:30 am****Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Todd Maugans,** **todd.maugans@nemours.org*****Contact Person: Tiffany Oreste, (407) 394-0335;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

 | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

Monday-Friday round with neurosurgeons, assist with surgery, Minimal call, one weekend per month.

**Objectives:**

1. Understand neurosurgical issues related to children.
2. Manage acute neurological problems.

**Electives**

**Surgery**

**Pediatric Orthopedic Surgery Fourth Year Rotation**

**MDE 8485 First Day: Report to Nemours Children’s Hospital lobby @**

**Full-time (2-4 weeks) 8:30 am**

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| **(NCH) Nemours Children’s Hospital** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. John Lovejoy, III,** **john.lovejoy@nemours.org*****Contact Person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

This rotation is intended for the student interested in orthopedic surgery, pediatrics, and pediatric or family practice sports medicine. This rotation will prove an opportunity to gain insight and experience with the diagnosis and management of orthopedic surgical disorders of childhood. It will provide an overview of pediatric orthopedic topics selected from topics required by national pediatric, family practice, and orthopedic residency programs. The medical student will be expected to be involved in the workup, diagnosis, treatment, and follow up of patients with a wide variety of pediatric orthopedic surgical diseases. The student will be involved with the patient evaluation in the emergency department, outpatient clinic, and inpatient setting. He/She will also be involved in daily inpatient rounds, outpatient clinic, minor procedures, as well as well as major operations. The student will be expected to present in the orthopedic surgery education conference weekly, attend grand rounds, journal clubs, and morbidity and mortality conference. Call will be 1 week day and 1 weekend day per rotation for 2 week elective, and 2 week days and 1 weekend day per rotation for 4 week electives.

**Objectives:**

**Patient Care:**

1. Recognize common pediatric orthopedic surgical problems and emergencies in children.

2. Recognize orthopedic surgical complications in children.

3. Assist with the workup of new patients in the emergency department, outpatient clinic, and inpatient setting.

4. Assist in preparing patients for discharge.

**Medical Knowledge:**

1. Learn the fundamentals of basic sciences in pediatric orthopedic surgery.

 2. Learn pediatric orthopedic common diagnoses and their management.

 3. Read for the operative cases and be prepared for the OR.

 4. Understand the pathology of pediatric orthopedic diseases.

 5. Understand diagnostic tests commonly used pediatric orthopedic patients.

 6. Practice evidence-based medicine by reviewing the literature.

**Pediatric Orthopedic Surgery Fourth Year Rotation continued**

**Practice Based Improvement:**

1. Utilize a pediatric orthopedic surgery textbook and journal articles to study pediatric orthopedic diseases.

 2. Document patient care activities in the medical chart in a timely fashion.

 3. Utilize electronic educational resources.

**Interprofessional and Communication Skills:**

 1. Learn to communicate well with families and children.

 2. Learn to interact with the surgical team.

 3. Work well with other members of the health care team.

**Professionalism:**

 1. Continue life-long learning.

 2. Maintaining confidentiality of patient information.

 3. Maintain sensitivity to others’ cultures, age, gender, and disabilities.

 4. Maintain accountability for personal actions and decisions.

**Systems-Based Practice:**

 1. Only communicate appropriately with families under the direction of Faculty.

 2. Communicate with the health care team members about the surgical patients.

**Learning Activities**

The medical student will present in the weekly pediatric orthopedic surgery education conference. He/She will present in daily inpatient rounds, attend pediatric orthopedic surgery clinic, and participate in surgeries. He/She will also practice evidence-based medicine by performing literature searches on the pediatric orthopedic surgery diseases of their patients.

**Electives**

**Surgery**

**Pediatric Surgery Selective & Elective**

**Clerkship Director: Matthew Lube, M.D.**

**MDE 8490 1**

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| **Full-time (2-4 weeks)****(FH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Christopher Anderson****Christopher.Anderson.md@flhosp.org*****Contact person: Keisha Green******(407) 303-7280;*** ***lakeata.green@flhosp.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to (FH) Walt Disney Pavilion, 2501 N. Orange Ave., Suite 200, Orlando, FL @ 8:00 a.m.** |

**MDE 8490 7**

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| **Full-time (4 weeks)****(NCH) Nemours Children’s Hospital** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Tamarah Westmoreland,** **tamarah.westmoreland@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

Understand basic diagnosis and therapeutic management of pediatric surgical disease. Will participate in all inpatient and outpatient activities, including weekend rounds.

**Objectives:**

1. Take accurate H&P, see patients in consultation, participate in all didactic discussions and learn basic surgical technique.

**Electives**

**Surgery**

**Pediatric Maxillofacial & Craniofacial Surgery Elective**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8591 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH) Arnold Palmer Pediatric Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact Person: Kisha Green******(407) 303-7280;*** ***lakeata.green@flhosp.org*****Maximum Enrollment: 2 each block**  | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The primary objective of this rotation is to provide trainees with expanded clinical training in the areas of cleft, craniofacial, and pediatric oral and maxillofacial surgery. The day to day clinical practice of the program director is currently devoted to all phases of cleft lip and palate repair, craniofacial surgery for congenital malformations, skull base surgery, management of facial trauma, orthognathic surgery, pathology, and a variety of oral and maxillofacial procedures in medically compromised children.

**Objectives:**

1. The student will develop basic clinical skills in the evaluation, surgical repair and postoperative care of pediatric craniomaxillofacial surgery patients.
2. The student will gain exposure to the areas of primary cleft surgery and craniofacial procedures involving trans-cranial access.
3. The student will demonstrate ability to work as part of a team delivering treatment to pediatric patients with craniofacial disorders, including cleft lip and palate.

**Electives**

**Surgery**

**Pathology and Laboratory Medicine**

**Clerkship Director: Richard Peppler, M.D.**

**MDE 8530 1**

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| **Full-time (4 weeks)****(FH) Florida Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Dr. Luis Guarda****luis.guarda.md@flhosp.org*****Contact Person: Dr. Luis Guarda*** ***(321) 230-4447;*** ***luis.guarda.md@flhosp.org*****Maximum Enrollment: 3 each block (Except for September, October, & November)** | **First Day: Report to 601 E. Rollins St., 2nd floor laboratory @ 8:00 am. Students should email Dr. Guarda 2-3 weeks before the start of the rotation** |

**MDE 8530 7 First Day: Report to Nemours Children’s**

**Full-time (4 weeks) Hospital lobby @ 8:30 am**

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| **(NCH) Nemours Children’s Hospital** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Kamran Badizadegan,** **Kamran.badizadegan@nemours.org*****Contact Person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

Students will rotate through multiple areas of the clinical laboratory and anatomic pathology. They will shadow pathologists performing specific procedures including frozen sections, fine needle aspirations, and autopsies, and will have hands-on experience in processing surgical pathology specimens. They will participate in an active hematopathology service and learn about applications of molecular pathology for disease diagnosis. Exposure to clinical chemistry and blood banking will also be included.

**Objectives:**

1. Describe gross and microscopic pathology for multiple tissue types and correlate findings with clinical presentation.
2. Discuss the appropriate role of clinical laboratory testing for select disease processes.
3. Become familiar with a few select laboratory instruments and how they function, including interferences and limitations.
4. Gather appropriate laboratory and clinical information and interpret findings to select additional testing processes.
5. Communicate effectively with laboratory and other health care professionals.

**Electives**

**Surgery**

**Clinical Pathology Methods and Interpretation**

**Clerkship Director: Richard Peppler, M.D., Ph.D.**

**MDE 8532 2**

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| **Must be scheduled through VSAS****Full-time (4 weeks)****(OH)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: TBD*****Contact Person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 per block (June, September, October, November, December, February, March & April only)** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The course is designed to acquaint the student with all aspects of a large hospital clinical laboratory. The student will learn the capabilities of the laboratory by rotating through hematology, immunology, chemistry and microbiology. Within each section, he/she will perform selected prototype procedures, i.e., coagulation testing, blood smear differentials, chemical analysis, isolation of microorganisms, etc.

**Objectives:**

1. Upon completion of the course, the student will be able to abstract the clinical chart, perform an autopsy, describe gross specimens, prepare sections, interpret microscopic findings and present a summary of those cases for which he/she is responsible.

**Electives**

**Surgery**

**Autopsy Pathology**

**Clerkship Director: Julia V. Hegert, M.D.**

**MDE 8535 2**

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| **Full-time (4 weeks)****(OH)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Julia Hegert*****Contact Person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 per block (except July, August, & December)** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The course is designed to provide the student with the opportunity for in-depth study and performance of complete autopsies. Emphasis is placed on gross anatomy and gross and microscopic pathology as it is reflected in the living patient. The student will review the clinical charts and gather the adequate clinical information needed for the clinicopathological correlation of the disease process.

**Objectives:**

1. Upon complete the student will be able to abstract the clinical chart, perform an autopsy, describe gross specimens, prepare sections, interpret microscopic findings and present a summary of those cases for which he/she is responsible.

**Electives**

**Surgery**

**Surgical Pathology**

**Clerkship Director: Orlando Gonzalez, M.D.**

**MDE 8534 2**

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| **Full-time (4 weeks)****(OH)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Orlando Gonzalez*****Contact Person: Sandra Ingram, GME Coordinator,******(321) 841-3715;*** ***Sandra.Ingram@Orlandohealth.com*****Maximum Enrollment: 1 each block (except July, August, & December)** | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

The course is designed to provide the student with the opportunity for surgical specimen preparation and interpretation. Emphasis is placed on normal gross and histologic findings, gross and microscopic pathology and clinicopathologic correlation of the patient’s disease process.

**Objectives:**

1. At completion of the course, the student will be able to describe gross surgical specimens, prepare sections, interpret microscopic findings and make the necessary clinicopathological correlations.

**Electives**

**Surgery**

**Advanced Clinical Anatomy**

**Clerkship Director: Andrew Payer, Ph.D.**

**MDE 8520 0**

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| **Full-time (4 weeks)****(UCF COM)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Andrew Payer*****Contact person: Kaitlin Garrett, (407) 266-1113;*** ***Kaitlin.garrett@ucf.edu*****Maximum Enrollment: 2 each block**  | **First Day: Report to 411L UCF COM @ 9:00 a.m. At least one week prior to the elective, develop an outline of the goals and objectives that you would like to achieve and submit the outline to Dr. Payer for approval.**  |

Primary goal of the elective is to provide medical students with the opportunity to study advanced clinical anatomy related to a medical specialty they anticipate applying for graduate medical education. The experience will involve cadaver dissections, literature survey and consulting with clinical specialists in the area they will be working on. The contact time is flexible and does not require any on call responsibility.

**Objectives:**

1. Demonstrate detailed anatomy, and anatomical variations in the area studied.
2. Describe the current knowledge of the anatomy in the area studied.
3. Relate and compare the anatomical knowledge with the current surgical approaches in the area studied.
4. Prepare and give a presentation to the supervising faculty member and assigned clinical faculty on the project outlined in the contract agreed upon at the beginning of the elective.

**ELECTIVES**

**GENERAL CATEGORIES**

**Electives**

**General Miscellaneous Categories**

**Independent Studies/Research at UCF COM**

**Clerkship Director: Varies**

**MDR 8900 1**

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| --- | --- |
| **Full-time (4 weeks)****(Various Locations)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Varies*****Contact person: Alisha Corsi, Coordinator******UCF COM Registrar’s Office******Alisha.corsi@ucf.edu*****Maximum Enrollment: Varies** |  |

The independent study/research elective permits fourth year medical students to pursue, under the sponsorship of UCF COM faculty members, areas of study/research that are not included among regular elective offerings. Arrangements for these electives are made between the student and the faculty member; and will require written administrative approval prior to registration.

**Directed Study/Independent Study at UCF COM**

**Clerkship Director: Varies**

**MDE 8900 0**

|  |  |
| --- | --- |
| **Full-time (4 weeks)****(Various Locations)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Varies*****Contact person: Alisha Corsi, Coordinator******UCF COM Registrar’s Office******Alisha.corsi@ucf.edu*****Maximum Enrollment: Varies** |  |

Individual study by students under the direction of a faculty member and with the approval of the Assistant Dean of Medical Education and the Associate Dean for Students. Topics vary and will be selected on an individual basis. Arrangements for these electives are made between the student and the faculty member; and will require written administrative approval prior to registration.

**Electives**

**General Miscellaneous Categories**

**Independent Studies/Research Elective (Away)**

**Clerkship Director: Varies**

**MDX 8900**

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| --- | --- |
| **Full-time (4 weeks)****(Various Locations)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Varies*****Contact person: Alisha Corsi, Coordinator******UCF COM Registrar’s Office******Alisha.corsi@ucf.edu*****Maximum Enrollment: Varies** |  |

The Independent Study/Research elective (away) permits 4th year medical students to pursue areas of research/away outside of UCF. Arrangements for these electives are made between the student and the away location supervising faculty member and must be supervised by a UCF COM faculty member. Students must obtain written administrative approval prior to registration.

**Electives**

**General Miscellaneous Categories**

**International Elective**

**Clerkship Director: Dr. Judith Simms-Cendan**

**MDE 8072**

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| **Full-time (4 weeks)****(Various Locations)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Varies*****Contact person: Dr. Judith Simms-Cendan******Director of International Programs @ UCF COM******(407) 266-1171;*** ***Judith.simms-cendan@ucf.edu*****Maximum Enrollment: Varies** |  |

Students interested in completing an elective outside of the United States should contact the Director of International Health Programs. Additional information may be available from the Office of Student Affairs. The process for arranging for an international elective should being early in the 3rd year. Students must obtain written administrative approval prior to registration. All students are required to meet with Dr. Judith Simms-Cendan prior to travel and register the travel with UCF at [www.med.ucf.edu/global-health](http://www.med.ucf.edu/global-health). Prior to traveling, students should review the information in the “Before You Travel” section. Completed forms must be submitted to Dr. Judith Simms-Cendan.

**Electives**

**General Miscellaneous Categories**

**The History of Western Medicine**

**MDE 8900 First Day: Contact Dr. Shaikh at least one week before**

**Part-time (2 weeks) course begins. Contact Kate Knowles if there is no reply.**

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| **(VA) (UCF COM) Orlando VA & UCF College** **of Medicine** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Saad Shaikh,** **sshaikhmd@yahoo.com*****Contact Person: Kate Knowles, (407) 266-1105;*** ***kate@ucf.edu******; Dr. Shaikh,*** ***sshaikhmd@yahoo.com*****Maximum Enrollment: 1 per block**  |  |

Students will be required to listen to an audio lecture series and complete assigned readings to be determined by course supervisor. Student will also be required to complete and examination based on the lecture series.

**Objectives:**

**a.** Develop an understanding of medical history from Hippocratic medicine to the sequencing of the human genome.

**b.** Become familiar with medical history’s significant figures and the impact they had on the evolution of medicine.

**c.** Deepen understanding of illness and suffering through the perspective of medical history.

**d.** Recognize the interrelationship between medicine, science, and society through history.

**Learning Activities**

Completion of the following assignments:

1. Doctors: The History of Scientific Medicine Revealed Through Biography; available at amazon.com or audible.com

2. The Making of Modern Medicine by the BBC (Audio Series – 7.25 hours)

3. Textbook: Medical Firsts: From Hippocrates to the Human Genome by Robert Adler, MD

**Electives**

**General Miscellaneous Categories**

**Medical Spanish**

**MDE 8900**

**Full-time (4 weeks)**

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| **(UCF COM)** **Grading Basis: Pass/Fail** **First Day: Access to Canopy Medical Spanish to be obtained****from the COM library. Clinical skills sessions will be scheduled****3 times per year and students are expected to participate in** **at least one.** **Primary Faculty Supervisor: Dr. Judith Simms-Cendan** ***Contact Person: Dr. Judith Simms-Cendan,*** ***(407) 266-1057;*** ***Judith.simms-cendan@ucf.edu*****Maximum Enrollment: 10 per block**  |  |

**Goals of the Rotation:**

1. Students will have improved knowledge of Spanish grammar and medical Spanish vocabulary.
2. Students will learn how Latino culture affects access and utilization of health care.
3. Students will become familiar with correct use of a medical interpreter.
4. Students will practice use of medical Spanish in the clinical skills center.

**Objectives:**

1. Improved knowledge of role of culture in care of patients will enhance patient care.
2. Assessing skills in language will define safety limits in relying on personal medical Spanish knowledge.
3. Enhanced knowledge of medical Spanish will improve communication ability.
4. Understanding correct use of an interpreter will improve professionalism.
5. Understanding the role of the interpreter and laws requiring access to interpreter will improve systems based practice knowledge.

**Learning Activities**

1. Students are expected to work independently on Canopy models.
2. They are expected to attend the session in the clinical skills center, and sessions on use of an interpreter and practical medical Spanish.
3. A literature review and brief essay (1-2 pages) on the role of culture in medical care is required.

**Electives**

**General Miscellaneous Categories**

**Clinical Anatomy Teaching Elective**

**Clerkship Director: Andrew Payer, Ph.D.**

**MDE 8093 0**

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| **Full-time (4 weeks)****(UCF COM)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Andrew Payer*****Contact person: Kaitlin Garrett, (407) 266-1113;*** ***Kaitlin.garrett@ucf.edu*****Maximum Enrollment: 6 each block (October, November, December, January, & February only)** | **First Day: Report to 411 L UCF COM @ 9:00 a.m. Contact Dr. Payer one week prior to the start of the elective to get a list of the sessions you will be attending and preparing for the Structure and Function module.**  |

Students will participate as teaching assistants in the Structure and Function Module for the four week period of their elective. They will need to prepare for the anatomical/physiological areas being covered in the respective component of the HB-2 module during their elective period. They will be required to be prepared to discuss with the M-1 students the relevant anatomy/physiology and medical imaging of the area being studied. They will attend all anatomy/histology/physiology/medical imaging laboratory/simulation sessions. They will also assist the M-1 students with their cadaver/autopsy report data and provide support for students having difficulties in the areas being studied.

**Objectives:**

1. Prepare pro-section anatomy dissections for demonstration to M-1 students.
2. Attend all anatomy/histology/physiology/medical imaging laboratory/simulation sessions.
3. Demonstrate knowledge of the anatomy/physiology/histology and medical imaging of the areas being studied in the elective
4. Assist M-1 students having academic difficulties with anatomy
5. Assist M-1 students’ knowledge of clinical anatomy

**Electives**

**General Miscellaneous Categories**

**Advanced Physical Diagnosis**

**Clerkship Director: Sergio Salazar, M.D.**

**MDE 8208 0**

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| --- | --- |
| **2 weeks****(UCF COM)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Sergio Salazar*****Contact person: Dr. Sergio Salazar******Sergio.Salazar@ucf.edu*****Maximum Enrollment: Varies** | **First Day: Report to 411 H UCF COM @ 10:00 a.m.** |

Improve basic physical exam and learn advanced techniques to improve patient care and assessment. Students will be taken on “rounds” with bedside teaching. No call to be taken.

**Objectives:**

1. **Demonstrate the ability to perform an accurate history and physical exam and use the information fathered to determine an appropriate differential diagnosis.**
2. **Formulate accurate hypothesis.**

**EXTRAMURAL CLERKSHIPS**

**Electives**

**Extramural**

**Extramural Clerkship**

**(VSAS and non-VSAS)**

**Clerkship Director: Varies**

**MDX 8011**

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| **Full-time (4 weeks)****Grading Basis: Pass/Fail****(Various Locations)****Primary Faculty Supervisor: Dr. Marcy Verduin, Associate Dean for Students: Dr. Marcy Verduin Assistant Dean for Medical Education: Dr. Martin Klepheke*****Contact person: Alisha Corsi, Coordinator******COM Registrar’s Office******Alisha.corsi@ucf.edu*****Maximum Enrollment: Varies** |  |

Extramural electives offer students the opportunity to gain experience at LCME accredited medical schools and affiliated facilities. Arrangements for these electives are made between the student and the visiting institution. Students must obtain written administrative approval prior to registration.

**Objectives:**

1. Have the student assume greater levels of responsibilities for the patient.
2. Expand the student’s skills and medical knowledge.
3. Prepare the student for their residency.

**Courses Available as 2 Week Electives**

**ELECTIVES**

**Internal Medicine**

**Emergency Ultrasound Elective**

**MDE 8773 First Day: Report to Florida Hospital East @ 8:00 am**

**Part-time (2 weeks)**

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| **(FH) Florida Hospital East Orlando** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Alfredo Tirado-Gonzalez** ***Contact Person: Katherine Bradford, (407) 303-6413;*** ***Katherine.bradford@flhosp.org*****Maximum Enrollment: 1 per block**  |  |

The primary goal for the emergency ultrasound point of care elective is to provide the knowledge, skill, and experience to perform focused bedside ultrasound (US) examinations as a means to provide immediate information and answer specific questions about patients’ physical conditions and care.

**Objectives:**

Patient Care: Gather accurate, essential information in a timely manner from all sources, including medical interviews, physical examinations, medical records, and diagnostic/therapeutic procedures. Integrate diagnostic information and generate an appropriate differential diagnosis.

Medical Knowledge: Understand the basic principles of medical ultrasonography with the potential risks and benefits to the patient. Demonstrate the ability to appropriately use the ultrasound machine to obtain basic images. Demonstrate the ability to identify basic ultrasound anatomy. Understand the appropriate use of ultrasound in the diagnosis of common medical problems. Demonstrates adequate foundation of knowledge in US applications: FAST, Aorta, Renal, First Trimester Bleeding, Echo, Gallbladder, and Procedural ultrasound.

Practice Based Improvement: Locate, appraise, and assimilate evidence from scientific studies related to the health problems of their patients. Use information technology to manage information, access online medical information, and support their own education.

Interprofessional and Communication Skills: Demonstrate the ability to respectfully, effectively, and efficiently develop a therapeutic relationship with patients and their families. Demonstrate effective participation in and leadership of the health care team.

Professionalism: Arrive on time and prepared to work. Demonstrate appropriate use of symptomatic care. Treat patients/family/staff/paraprofessional personnel with respect. Protect staff/patient’s interests/confidentiality. Accept responsibility/accountability for patient care activities.

**ELECTIVES**

**Internal Medicine**

**Nephrology, Inpatient/Outpatient**

**Clerkship Director: Sergio Salazar, M.D.**

**MDE 8350**

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| **Part-time (2 weeks)****Grading Basis: Pass/Fail****(FLG) Flagler Hospital****Primary Faculty Supervisors: Dr. Amir Mauk** ***Contact person: Wendy Jennings, (904) 829-8300;*** ***wendy.rj@live.com*****Maximum Enrollment: 1-2 each block** | **First Day: Report to Flagler Hospital, St. Augustine, Fl, 6th floor Medical Library @ 8:00 am** |

This course provides an in-depth exposure to the diagnosis and treatment of renal disease in the hospital and outpatient setting through bedside teaching, didactic lectures, conferences and Grand Rounds. After completion of the course, the student will be familiar with the various diagnostic and therapeutic modalities that are used in the treatment of patients with renal disease.

**Objectives:**

1. After completion of the course, the student will be familiar with the various diagnostic and therapeutic modalities that are in the treatment of patients with renal disease.

**ELECTIVES**

**Internal Medicine**

**Not Currently Available: Associates in Dermatology - Dermatology Elective**

**Clerkship Director: Michael Steppie, M.D.**

**MDE 8250 9**

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| **Variable (2-4 weeks)****(PO) Associates in Dermatology****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Michael Steppie****msteppie@gmail.com*****Contact person: Jaime Handley******(407) 846-7546 ext. 3221;*** ***Jaime@dermorlando.com*****Maximum Enrollment: 1 each block** | **First Day: Contact Jaime Handley 2 weeks before the start of the rotation. Report to 9430 Turkey Lake Road, Suite 210, Orlando, Fl @ 10:00 a.m.** |

Associates in Dermatology Clerkship director and his staff will introduce students to dermatology and dermatologic surgery. They will be seeing patients with a vast array of diseases of the skin, hair, and nails, as well as surgical excisions of melanoma, skin tumors, cancers, benign moles, and skin legions. The students will also be familiarized with Photodynamic Therapic (PDT) for psoriasis and eczema, Electrocautery Treatments and Blue-Light to treat pre-cancerous legions, acne, and acne scarring. They will also be given an overview of a number of cosmetic dermatology services such as Botox, Laser Facial Rejuvenation, and Intense Pulsed Light.

**Objectives:**

**The students will need to be able to perform patient assessment, while taking a dermatologic patient history, physical exam of the skin, differential diagnosis evaluation, and treatment considerations.**

**ELECTIVES**

**Internal Medicine**

**Wound Care**

**Clerkship Director: Robert Phillips, DPM**

**MDE 8345 3**

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| **Full-time (2-4 weeks)****(VA)****Grading Basis: Pass/Fail****Primary Faculty Supervisors: Robert Phillips, DPM;** **Lori Kruger, GNP*****Contact person: Dr. Robert Phillips*****(407) 432-8468;** **robert.phillips9@va.gov****Maximum Enrollment: 1 each block (None in June, July, or August)** | **First Day: Report to VA Medical Center, Building 500, Suite 1063 @ 7:00 a.m. Students should email Andrea Gelber to get computer access codes.** |

The student will be exposed to patients with all types of wounds. Most of the wounds will be located on the lower extremity. Diabetic ulcers will be heavily emphasized, though all types of wounds will be encountered, including decubitus ulcers, venous stasis ulcers, arteriosclerosis ulcers, surgical wounds and complications. In addition, the student will be exposed to the patient at high risk for developing ulcers as well as those who have finished healing a wound and are now being monitored for reoccurrence.

**Objectives:**

1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially

and in an ongoing fashion.

1. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
2. Demonstrate professional behavior at all times.

**ELECTIVES**

**Internal Medicine**

**Advanced ECG Self-Study Program**

**MDE 8900 First Day: UCF COM room 406P at 8:00 am**

**Part-time (2 weeks)**

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| **(UCF COM) UCF COM and UCF Health Clinic** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Bernard Gros** ***Contact Person: Dr. Bernard Gros, 407-266-1180;******bernard.gros@ucf.edu*****Maximum Enrollment: 2 per block (October through April only)**  |  |

The primary goal of this rotation will be mastering the art and practice of clinical ECG interpretation. This will focus on the following areas: 1) The basics, 2) Myocardial abnormalities, 3) Conduction abnormalities, 4) Arrhythmias, 5) Narrow & wide complex tachycardias, 6) Paced rhythms, channelopathies and electrolyte disturbances.

Upon completion of this 2 week session, the students will have reviewed 400-600 case studies. This will provide them with a broad and in-depth understanding of ECG analysis and diagnosis.

**Learning Activities:**

1. Self study case reviews by student (Using Podrid’s ECG Series)

2. Additional literature review ECG topics.

3. Weekly presentations to faculty on assigned ECG/Cardiovascular topics.

4. Weekly conference/faculty discussions to assist in instruction and understanding of ECG interpretation.

**Required Texts:**

1) Podrid's Real World ECG - Volume 1-4 (Volume 5-6 once released) - student will need to purchase to obtain additional access to online case files

2) Marriott's Practical Electrocardiography 12th edition

**Electives**

**Ophthalmology/Pediatrics**

**Clinical Ophthalmology Elective**

**Clerkship Director: Saad Shaikh, M.D.**

**MDE 8550 3**

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| **Variable Duration (2-4 weeks)****(VA)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Saad Shaikh*****Contact person: Dr. Saad Shaikh******(407) 266-1100;*** ***sshaikhmd@cfl.rr.com******; Kate Knowles,*** ***kate@ucf.edu*****Maximum Enrollment: 1 each block**  | **First Day: VA, Hospital Eye Clinic, room 1510 @ 8:00 a.m. Students should email Andrea Gelber to get computer access codes.** |

A 1-4 week rotation will be developed by the elective faculty and the student based on individual student goals. Core competencies to be achieved during the elective include general eye examination and ophthalmoscopic examination skills and exposure to ophthalmic surgery. For more advanced students or those available for longer time commitments, students will assist in ophthalmic surgical procedures, workup and presentation of ophthalmic cases to faculty and have the opportunity to present and or write a case report for publication. There are no weekend clinics outside of call. Call will be limited to accompanying staff to after-hours emergency evaluations (rare).

**Objectives:**

1. Achieve proficiency in the evaluation of patients with ocular disorders.
2. Establish familiarity within common eye conditions and their treatment.
3. Recognize ocular manifestations of systemic disease.
4. Become familiar with the clinical procedure ophthalmology.

**Electives**

**Ophthalmology/Pediatrics**

**Ophthalmology Research Elective**

**Clerkship Director: Michael Tolentino, M.D.**

**MDR 8550 9**

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| **Full-time (2-4 weeks)****(PO) Center for Retina & Macular Disease****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Michael Tolentino*****Contact person: Dawn Sutherland, (863) 297-5400 x2032;*** ***dasu@crmd.net*****Maximum Enrollment: 1 each block** | **First Day: Report to Center for Retina & Macular Disease, 250 Ave. K, SW, Suite 200 Winter Haven, FL @ 9:00 a.m.** |

Students will have the opportunity to observe the implementation of clinical trials at an ophthalmology subspecialty (retina) clinic. They will gain exposure to the various phases of clinical trials and how basic science research is applied in clinical practice. Students will observe clinical trial data collection and treatment administration. Students will participate in the examination of retinal patients and be introduced to advances in diagnostic and therapeutic technology. Students will also have the opportunity to design a retrospective clinical research project that could lead to publication. There will be no weekend or on-call activities. This elective will benefit those seeking future careers in ophthalmology or in other clinical subspecialties where an understanding of clinical research is important.

**Objectives:**

1. Achieve familiarity with clinical trials and how clinical trials are designed.
2. Understand the role the FDA plays in approving therapeutics and devices.
3. Develop additional experience with the funduscopic examination.
4. Recognize retinal manifestations of systemic disease.
5. Become familiar with the workings of a modern ophthalmology subspecialty (retina) practice.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Dermatology**

**Clerkship Director: Tace Rico, M.D.**

**MDE 8500 1**

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| **Full-time (2-4 weeks)****(FH)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Tace Rico*****Contact person: Sebi Colon, Office Manager******(407) 303-1509;*** ***eusebia.colon@flhosp.org*****Maximum Enrollment: 1 each block (None in June)**  | **First Day: Report to 615 E. Princeton St., Suite 416, Orlando, FL @ 8:30 a.m.** |

Exposure to many common pediatric skin diseases, some more rare congenital dermatoses. Importance of the derm exam and the correct use of morphologic terminology and examination technique. Understanding of most common dermatoses. Most time in a pediatric outpatient clinic observing procedures including biopsies, lasers and minor surgeries. Opportunity to evaluate inpatients on the consult service with acute dermatologic issues. Journal discussions and kodachromes will occur daily.

**Objectives:**

1. Become proficient in describing skin lesions
2. Basic understanding of acne and treatment regimens.
3. Recognition of atopic dermatitis, generate treatment plan.
4. Recognition of common skin infections in children.
5. Differentiation between infantile hemangiomas and vascular malformations.
6. Familiarity with nevi and congenital lesions.
7. Familiarity with some more common genodermatoses with appropriate workup.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Endocrinology Elective**

**Clerkship Director: Colleen Moran-Bano, M.D.**

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| **MDE 8430 7****Full-time (2-4 weeks)****(NCH) Nemours Childrens Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Michelle Rivera-Vega****(407) 567-3855,** **michelle.rivera-vega@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to 615 E. Princeton St., Suite 1, Orlando, FL @ 9:00 a.m.** |

Learn the basics of Pediatric Endocrinology. Provide in depth exposure and experience in the diagnosis and treatment of endocrine disorders with a focus on the multidisciplinary care of the diabetic child. Also growth disorders, disorders of puberty, and obesity and its complications.

**Objectives:**

1. Diagnosis and treatment of Type 1 & 2 diabetes.
2. Differential diagnosis and treatment of growth disorders.
3. Differential diagnosis and treatment of pubertal disorders.
4. Recognition of obesity and complications.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Gastroenterology Elective**

**MDE 8433 First Day: Report to Nemours Children’s Hospital Lobby @**

**Full-time (2 or 4 weeks) 8:30 am**

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| **(NCH) Nemours Children’s Hospital** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Jolanda Denham** ***Contact Person: Tiffany Oreste, 407-567-3876;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

The Pediatric Gastroenterology elective is designed to provide medical students with an opportunity for concentrated experience with a broad range of outpatient and inpatient care scenarios. Medical students will consolidate and enhance skills necessary for the prevention, primary care, and collaborative management of various digestive problems affecting children. These goals will be achieved through attaining key competencies in patient care, medical knowledge, practice-based learning and improvement, interpersonal communication skills, professionalism and system-based practice. The elective is available as either a two or four week rotation.

**Objectives:**

**Patient Care:** Medical students will demonstrate compassionate scientifically guided and effective care for the promotion of health, prevention of illness, and treatment of disease. Medical students must:

* Gather accurate and appropriate information for each patient encounter in which they participate via medical interviews, physical exam, chart review and discussion with other members of the medical care team.
* Develop an appropriate and thorough differential diagnosis for each patient seen.
* Analyze and apply available information to make appropriate diagnostic decisions and therapeutic interventions that are based on clinical judgment, scientific evidence, and patient preference.
* Develop, negotiate and implement appropriate management plans for children and adolescents with gastrointestinal disorders.
* Develop appropriate follow-up plans for children and adolescents with gastrointestinal disorders.

**Medical Knowledge:** Medical students must demonstrate proficiency and obtaining new knowledge through didactic lectures discussions on rounds, assigned and guided readings, use of the internet, and consultation with colleagues. Students will apply an open-minded, analytical approach to acquire new knowledge, and will assess their knowledge critically through continued use of the medical and scientific literature. Students will apply new knowledge to clinical problem solving and to clinical decision making.

**Practice Based Improvement:** Medical students are expected to evaluate and critically assess patient care practices, as well as appraise and dissimilate clinical information. Students will also demonstrate an ability to learn from their own and others’ mistakes.

**Interprofessional and Communication Skills:** Medical students are expected to demonstrate consistent interpersonal and communication skills that result in effective information exchange and support of families and colleagues.

**Professionalism:** Medical students are expected to practice consistently high quality healthcare that is cost effective and beneficial to the patient within the context of the healthcare system.

**Electives**

**Ophthalmology/Pediatrics**

**Pediatric Otolaryngology Elective**

**Clerkship Director: Colleen Moran-Bano, M.D.**

**MDE 8900**

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| **Full-time (2-4 weeks)****(NCH) Nemours Childrens Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Cynthia Chen****(407) 414-1348,** **Cynthia.chen@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

This rotation is intended for students interested in but not excluding Pediatric Otolaryngology, Pediatrics, Family Medicine, Emergency Medicine, Critical Care, Allergy subspecialties, and Pulmonary subspecialties. Children with common chronic conditions such as sleep disordered breathing, chronic sinusitis, otitis media, hearing loss, etc frequently require Otolaryngological care. With this rotation, we hope to provide insight into how Otolaryngologists work with primary care physicians to evaluate, diagnose, determine surgical candidacy, provide surgical risk and complication counseling, and treat these common conditions. Students will also have opportunity to see complex Otolaryngology care involving Neuro-otologic procedures such as cochlear implantation, airways procedures, and head and neck surgeries.

Otolaryngologists are also frequently involved in the care of children with complex medical conditions, so students will be exposed to children with Downs syndrome and other craniofacial syndromes and abnormalities and participate in complex medical decision making.

Students will be expected to become familiar with guidelines for medical treatment and surgical candidacy as set forth by national societies such as the AAP and AAO-HNS.

The student will be expected to attend educational conferences such as surgical grand rounds, journal clubs, morbidity and mortality conference, and aerodigestive multidisciplinary conference. The student will be expected to give an 8-10 minute case and topic presentation at least once during the rotation. We hope that by the end of the rotation, the student will be come comfortable and competent with basic clinical skills specific to ENT, such as using otologic equipment with the microscope, performing nasal and laryngeal endoscopy, and understanding wound care.

**Electives**

**Psychiatry/Neurology**

**Neurodegenerative Disease: Research & Clinical Care**

**Clerkship Director: Michael Bellew, M.D.**

**MDR 8802 9**

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| **Full-time (2-4 weeks)****(PO) Compass Research****100 W. Gore St., Orlando, FL****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Ira Goodman****ijgmd@aol.com*****Contact person: Shelby Wheaton, Administrative Assistant,*** ***swheaton@compass.clinic.com*****Maximum Enrollment: 1 each block by permission** | **First Day: Report to Compass Research, 100 W. Gore St., Orlando, FL @ 9:00 a.m.** |

The focus of the elective is to provide students an intensive exposure to evaluation and management of patients with neurodegenerative disease, with a focus on Alzheimer’s dementia and Parkinson’s disease. The clerkship director (Dr. Riggs) has fellowship-level training in these areas, and the primary faculty (Dr. Goodman) has over 20 years’ experience in care and evaluation of these patients. The elective will take place in the context of patients referred for possible participation in clinical trials, and exposure to clinical trial methodology is an additional focus. No on-call duties, no weekend activity.

**Objectives:**

1. Demonstrate the ability to assess patients with neurodegenerative disease; generate a thorough differential diagnosis for such patients; plan initial diagnostic and treatment interventions; discuss eligibility for clinical trials.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Radiation Oncology Elective**

**MDE 8780 First Day: Report to Health First Cancer Services (HFCS)**

**Part-time (2 weeks) 1130 S. Hickory St., Ste A, in Melbourne, Fl @ 8:00 am**

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| **(HF) Health First Cancer Services** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Nanialei Golden** ***Contact Person: Dr. Nanialei Golden,*** ***(321) 409-1956 ;*** ***nanialei.golden@mima.com*****Maximum Enrollment: 2 per block**  |  |

Students will participate in all aspects of Radiation Oncology patient care from initial consultation and work up to simulation/treatment planning, radiation physics/dosimetry, and daily treatment. Students will gain an understanding of general cancer management from common to rare cancers. Depending on the types of cancer under treatment during the rotation, there may be opportunities to observe brachytherapy in the operating room or other special procedures. Students will attend weekly Multidisciplinary Tumor Board and weekly Radiation Oncology Chart Rounds.

**Objectives:**

1. Understand the role radiation plays in cancer management.
2. Expand clinical knowledge of cancer and its various treatment options.
3. Understand common radiation side effects, specific causes and their management. Dispel radiation myths.
4. Enhance bedside manner, potentially improve conversations skills in patient communication in difficult circumstances.
5. Cancer management requires the interaction of multiple specialties including Medical Oncology, Surgical Oncology, Gyn Onc, Radiology and Pathology. Students will be part of this interaction.
6. Understand how cancer can impact multiple body systems and how cancer management impacts other synchronous illnesses.

**Learning Activities:**

This rotation is entirely outpatient. Students will attend weekly Multidisciplinary Tumor Board and weekly Radiation Oncology Chart Rounds. Students will gain a general understanding of radiographic anatomy as it pertains to contouring cancer volumes, normal organ volumes and organs at risk of potential radiation damage. Literature review will be focused around patient population currently under treatment including the most common cancers (breast, prostate, lung).

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Diagnostic Radiology Clerkship**

**Clerkship Director: Laura Bancroft, M.D.**

**MDE 8763 1**

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| **Variable (2-4 weeks)****(FH) Radiology Department****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Laura Bancroft****Laura.bancroft.md@flhosp.org*****Contact person: Patti Horvath,******(407) 303-6973;*** ***patti.horvath@flhosp.org*****Maximum Enrollment: 1 each block**  | **First Day: Contact Ms. Horvath two weeks before that start of rotation to confirm. Radiology Dept., 601 Rollins Ave., Orlando, Fl @ 8:00 am**  |

This rotation is open to all M4s and is particularly suited to students who have completed a general radiology elective or plan to pursue a career in Radiology. The student will gain experience in this exciting field which will utilize all modalities of radiology (general radiography, ultrasound, fluoroscopy, nuclear medicine, CT, and MRI). Students will particulate pin radiology procedures, readout of cases and weekly case presentations. There are no call or weekend responsibilities.

Rotations can be general diagnostic radiology which will give an overview of all modalities—or specialty-specific rotations (i.e. Angio-interventional Radiology, Pediatric Radiology, Neuroradiology, Nuclear Medicine, Cardiac Radiology, Body (MRI, CT, US, Oncology combined); Musculoskeletal Radiology, and Women’s Radiology.

**Objectives:**

1. Understand the clinical radiographic indications for a variety of imaging modalities and examinations.
2. Understand the major procedure-specific activities of physicians and associated pediatric patient experiences for the differing image modalities.
3. Gain familiarity and develop basic interpretive and diagnostic skills regarding the radiographic appearance of common pediatric pathological processes for commonly utilized imaging modalities.
4. Develop basic skills required for the professional presentation of radiologic material for daily work rounds and weekly case conferences.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Neuro-Radiology**

**Clerkship Director: Michael Bellew, M.D.**

**MDE 8767 9**

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| **Full-time (2 weeks)****(PO) Neuro-Skeletal Imaging of Winter Park****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Marc Shapiro*****Contact person: Dr. Marc Shapiro******(407) 478-1550;*** ***shapmd@gmail.com*** ***&*** ***vscott@nueroimagingwp.com*** ***& Richard Duemmling*** ***RDuemmling@neuroimagingwp.com*****Maximum Enrollment: 1 each block**  | **First Day: Report to NSI of Winter Park, FL, 2111 Glenwood Drive., Suite 101, Orlando, FL 32792****@ 9:00 a.m.** |

The focus of the elective is to provide students an intensive exposure to various modalities used in imaging the central nervous system, with a focus on MRI or CT. Students will gain experience interpreting results. No on call-duties and no weekend coverage.

**Objectives:**

1. Demonstrate competence in the selection of imaging tests to evaluate central nervous system structure and physiology; demonstrate familiarity with standards of care for patients undergoing neuro-imaging procedures; demonstrate basic skills in interpretation of common neuroimaging modalities.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Pediatric Radiology**

**Clerkship Director: Laura Varich, M.D.**

**MDE 8769 1**

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| **Full-time (2 or 4 weeks)****(FH) Radiology Department****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Laura Varich*****Contact person: Patti Horvath,******(407) 303-6973;*** ***patti.horvath@flhosp.org*****Maximum Enrollment: 1 each block**  | **First Day: Contact Mr. Hernandez two weeks before that start of rotation to confirm. Radiology Dept., 601 Rollins Ave., Orlando, Fl @ 8:00 am**  |

**MDE 8769 7**

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| **Full-time (2 or 4 weeks)****(NCH) Nemours Children’s Hospital****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. David Dinan,** **david.dinan@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

This rotation is open to all M4s and is particularly suited to students who have completed a general radiology elective or plan to pursue a career in a pediatric specialty. The student will gain experience in this exciting field which utilizes all modalities of radiology (general radiography, ultrasound, fluoroscopy, nuclear medicine, CT and MRI). Students will participate in radiology procedures, read-out of cases, and weekly case presentations. There are no call or weekend responsibilities.

**Objectives:**

1. Understand the clinical and radiographic indications for a variety of pediatric imaging modalities and examinations.
2. Understand the major procedure specific activities of physicians and associated pediatric patient experiences for the differing modalities.
3. Gain familiarity and develop basic interpretive and diagnostic skills regarding the radiographic appearance of common pediatric pathological processes for commonly utilized imaging modalities.
4. Develop basic skills required for the professional presentation of radiologic material for daily work rounds and weekly case conferences.

**Electives**

**Radiology/Anesthesiology/Emergency Medicine**

**Anesthesia Elective**

**Clerkship Director: Myriam Garzon, M.D.**

**MDE 8702 3**

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| **Full-time (2 weeks)****(VA)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Myriam Garzon*****Contact person: Andrea Gelber,*** ***andrea.gelber@va.gov*****Maximum Enrollment: 1 each block**  | **First Day: On the first day, report to Orlando VA Medical Center, 2nd floor @ 8:00 a.m. Students should email Andrea Gelber to get computer access codes.** |

The University of Central Florida College of Medicine Selective in Anesthesia will introduce the student to evidence based care of the patient requiring surgery in an outpatient setting. They will have exposure to local, regional, or general anesthesia as well as the necessary preparation and care rendered in the preoperative and perioperative setting. The student will spend 2-4 weeks on the anesthesia service. Students will be responsible for the evaluation and workup of patients in the outpatient setting. There will also be opportunity for evaluation and assessment for patients receiving care for chronic pain. The student will be responsible for regular attendance. Students will be exposed to a series of practice based learning (PBL) sessions designed to illustrate common clinical anesthesia problems.

**Objectives:**

**Medical Knowledge:**

1. Begin to learn the fundamentals of anesthesiology as applied to surgery. Examples include the effect of induction agents, inhalation anesthetic agents, and muscle relaxants. Students should obtain an understanding of the effect of these agents on the respiratory physiology, circulatory physiology, and the fluid and electrolyte balance of the surgical patient. Evaluation of blood gas analysis and treatment of acid/base disorders.
2. Begin to understand the anesthesia preoperative exam and the concerns faced by the anesthesiologist when anesthetizing a surgical patient.
3. Understand the reasoning for ordering diagnostic laboratory procedures in the preoperative patients. Examples include liver function tests, serum chemistries, arterial blood has analyses and hematologic profiles.
4. Begin to understand the different types of anesthetic care. *Examples include general anesthesia, spinal anesthesia, epidural anesthesia, and regional anesthesia and an understanding of when the various types of anesthetic care are indicated and which patients will benefit from regional versus general aneesthesia.*
5. Begin to understand the commonly used anesthesia non-invasive monitors and the anesthesia machine.
6. Begin to understand the methods of securing/supporting an airway and associated complications.
7. Anatomy of the airway (adult vs. pediatric)
8. Airway assessment

**Anesthesia Elective—Continued**

**Clerkship Director: Michelle Petrovic, M.D.**

1. Basic skills and tools to maintain ventilation and oxygenation
2. Outline the proper and safe way to inducing patients including rapid sequence inductions
3. Outline basic intubation techniques
4. Outline the Difficult Airway Algorithm
5. Perform a successful laryngoscopy and intubation on an adult with normal anatomy.
6. Begin to understand the medical procedural treatment of chronic pain syndromes.

**Patient Care:**

1. Perform pre-anesthetic physical examinations including specific knowledge regarding the patient’s airway and possible need for advanced airway intubation techniques. Basic Airway management—the student should be able to perform an airway exam, demonstrate proper use of oral/nasal airways, show different ways of delivering oxygen to patients, perform bag-mask and bag-endotracheal tube ventilation on patients, and demonstrate the ability to perform basic laryngoscopy/intubation, and atraumatic placement of laryngeal mask airway (LMA).

**Interpersonal Communication Skills:**

1. Demonstrate skill and sensitivity when counseling and educating patients and their families in a variety of anesthesia options.
2. Work effectively with the health care team.
3. Present patients in a concise, organized, logical, and knowledgeable manner.
4. Exhibit honesty, reliability, good communication skills, and appropriate judgment.

**Practice-Based Learning and Improvement:**

1. Use textbooks and journal articles to learn principles of anesthesia as applied to surgery.
2. Attend department of surgery conferences.

**Systems-Based Practice:**

1. Understand the relationship and shared responsibilities between anesthesiologists and surgeons.

**Professionalism:**

1. Demonstrate adequate communications skills while dealing directly with patients.
2. Arrive in the OR on time, prepared for the procedure.

**Procedures:**

Under appropriate supervision, the student will have the opportunity to assist and at times perform basic anesthesia procedures such as:

 Tracheal intubation using different techniques

 Regional anesthesia, spinal and epidural

 Placement of intravenous lines

**Electives**

**Surgery**

**Pediatric Neurosurgery**

**Clerkship Director: Michael Bellew, M.D.**

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| **MDE 8491 7****Full-time (2-4 weeks) First Day: Report to Nemours Children’s Hospital**

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| **(NCH) Nemours Children’s Hospital lobby @ 8:30 am****Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Todd Maugans,** **todd.maugans@nemours.org*****Contact Person: Tiffany Oreste, (407) 394-0335;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

 | **First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation** |

Monday-Friday round with neurosurgeons, assist with surgery, Minimal call, one weekend per month.

**Objectives:**

1. Understand neurosurgical issues related to children.
2. Manage acute neurological problems.

**Electives**

**Surgery**

**Pediatric Orthopedic Surgery Fourth Year Rotation**

**MDE 8485 First Day: Report to Nemours Children’s Hospital lobby @**

**Full-time (2-4 weeks) 8:30 am**

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| **(NCH) Nemours Children’s Hospital** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. John Lovejoy, III,** **john.lovejoy@nemours.org*****Contact Person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 per block**  |  |

This rotation is intended for the student interested in orthopedic surgery, pediatrics, and pediatric or family practice sports medicine. This rotation will prove an opportunity to gain insight and experience with the diagnosis and management of orthopedic surgical disorders of childhood. It will provide an overview of pediatric orthopedic topics selected from topics required by national pediatric, family practice, and orthopedic residency programs. The medical student will be expected to be involved in the workup, diagnosis, treatment, and follow up of patients with a wide variety of pediatric orthopedic surgical diseases. The student will be involved with the patient evaluation in the emergency department, outpatient clinic, and inpatient setting. He/She will also be involved in daily inpatient rounds, outpatient clinic, minor procedures, as well as well as major operations. The student will be expected to present in the orthopedic surgery education conference weekly, attend grand rounds, journal clubs, and morbidity and mortality conference. Call will be 1 week day and 1 weekend day per rotation for 2 week elective, and 2 week days and 1 weekend day per rotation for 4 week electives.

**Objectives:**

**Patient Care:**

1. Recognize common pediatric orthopedic surgical problems and emergencies in children.

2. Recognize orthopedic surgical complications in children.

3. Assist with the workup of new patients in the emergency department, outpatient clinic, and inpatient setting.

4. Assist in preparing patients for discharge.

**Medical Knowledge:**

1. Learn the fundamentals of basic sciences in pediatric orthopedic surgery.

 2. Learn pediatric orthopedic common diagnoses and their management.

 3. Read for the operative cases and be prepared for the OR.

 4. Understand the pathology of pediatric orthopedic diseases.

 5. Understand diagnostic tests commonly used pediatric orthopedic patients.

 6. Practice evidence-based medicine by reviewing the literature.

**Pediatric Orthopedic Surgery Fourth Year Rotation continued**

**Practice Based Improvement:**

1. Utilize a pediatric orthopedic surgery textbook and journal articles to study pediatric orthopedic diseases.

 2. Document patient care activities in the medical chart in a timely fashion.

 3. Utilize electronic educational resources.

**Interprofessional and Communication Skills:**

 1. Learn to communicate well with families and children.

 2. Learn to interact with the surgical team.

 3. Work well with other members of the health care team.

**Professionalism:**

 1. Continue life-long learning.

 2. Maintaining confidentiality of patient information.

 3. Maintain sensitivity to others’ cultures, age, gender, and disabilities.

 4. Maintain accountability for personal actions and decisions.

**Systems-Based Practice:**

 1. Only communicate appropriately with families under the direction of Faculty.

 2. Communicate with the health care team members about the surgical patients.

**Learning Activities**

The medical student will present in the weekly pediatric orthopedic surgery education conference. He/She will present in daily inpatient rounds, attend pediatric orthopedic surgery clinic, and participate in surgeries. He/She will also practice evidence-based medicine by performing literature searches on the pediatric orthopedic surgery diseases of their patients.

**Electives**

**Surgery**

**Pediatric Surgery Selective & Elective**

**Clerkship Director: Matthew Lube, M.D.**

**MDE 8490 1**

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| **Full-time (2-4 weeks)****(FH)** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Christopher Anderson****Christopher.Anderson.md@flhosp.org*****Contact person: Keisha Green******(407) 303-7280;*** ***lakeata.green@flhosp.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to (FH) Walt Disney Pavilion, 2501 N. Orange Ave., Suite 200, Orlando, FL @ 8:00 a.m.** |

**MDE 8490 7**

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| **Full-time (4 weeks)****(NCH) Nemours Children’s Hospital** **Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Tamarah Westmoreland,** **tamarah.westmoreland@nemours.org*****Contact person: Tiffany Oreste, (407) 567-3224;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 1 each block**  | **First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am** |

Understand basic diagnosis and therapeutic management of pediatric surgical disease. Will participate in all inpatient and outpatient activities, including weekend rounds.

**Objectives:**

1. Take accurate H&P, see patients in consultation, participate in all didactic discussions and learn basic surgical technique.

**Electives**

**General Miscellaneous Categories**

**The History of Western Medicine**

**MDE 8900 First Day: Contact Dr. Shaikh at least one week before**

**Part-time (2 weeks) course begins. Contact Kate Knowles if there is no reply.**

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| **(VA) (UCF COM) Orlando VA & UCF College** **of Medicine** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Saad Shaikh,** **sshaikhmd@yahoo.com*****Contact Person: Kate Knowles, (407) 266-1105;*** ***kate@ucf.edu******; Dr. Shaikh,*** ***sshaikhmd@yahoo.com*****Maximum Enrollment: 1 per block**  |  |

Students will be required to listen to an audio lecture series and complete assigned readings to be determined by course supervisor. Student will also be required to complete and examination based on the lecture series.

**Objectives:**

**a.** Develop an understanding of medical history from Hippocratic medicine to the sequencing of the human genome.

**b.** Become familiar with medical history’s significant figures and the impact they had on the evolution of medicine.

**c.** Deepen understanding of illness and suffering through the perspective of medical history.

**d.** Recognize the interrelationship between medicine, science, and society through history.

**Learning Activities**

Completion of the following assignments:

1. Doctors: The History of Scientific Medicine Revealed Through Biography; available at amazon.com or audible.com

2. The Making of Modern Medicine by the BBC (Audio Series – 7.25 hours)

3. Textbook: Medical Firsts: From Hippocrates to the Human Genome by Robert Adler, MD

**Electives**

**General Miscellaneous Categories**

**Advanced Physical Diagnosis**

**Clerkship Director: Sergio Salazar, M.D.**

**MDE 8208 0**

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| **2 weeks****(UCF COM)****Grading Basis: Pass/Fail****Primary Faculty Supervisor: Dr. Sergio Salazar*****Contact person: Dr. Sergio Salazar******Sergio.Salazar@ucf.edu*****Maximum Enrollment: Varies** | **First Day: Report to 411 H UCF COM @ 10:00 a.m.** |

Improve basic physical exam and learn advanced techniques to improve patient care and assessment. Students will be taken on “rounds” with bedside teaching. No call to be taken.

**Objectives:**

1. **Demonstrate the ability to perform an accurate history and physical exam and use the information fathered to determine an appropriate differential diagnosis.**
2. **Formulate accurate hypothesis.**

**Electives**

**General Miscellaneous Categories**

**Narrative Medicine Elective**

**MDE 8900 First Day: Report to Nemours Children’s Hospital lobby**

**Part-time (2 weeks) @ 8:30 am**

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| **(NCH) Nemours Children’s Hospital Medical Library** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Olivia DiLeonardo, MLS,** **Olivia.dileonardo@nemours.org*****Contact Person: Tiffany Oreste, 407-567-3876;*** ***tiffany.oreste@nemours.org*****Maximum Enrollment: 2 per block**  |  |

Student will be expected to participate in patient rounds; read/view and be prepared to discuss assigned readings (including short stories, essays, or poetry) and short films; actively participate in close reading exercises; write parallel chart entries (a parallel chart entry is a written, reflective account written by the student reflecting upon a patient encounter); elicit and transcribe patients illness narratives; respond to writing prompts developed by the preceptor; and lead a Narrative Medicine workshop for the M3 and M4 students assigned to NCH.

**Goals of the Rotation:**

* Student will learn about the history and development of Narrative Medicine and medical humanities. Student will be able to identify how humanities-related disciplines can “…enhance empathy, perspective-taking, openness to different viewpoints, and to prompt reflection on self, others, and the world.” (Kumagai, 2014)
* Student will recognize the ability of the arts to “make strange”: “…to trouble one’s assumptions, perspectives, and ways of being in order to view anew the self, others, and the world, (which) may serve a critical educational function in the development of reflective, humanistic clinicians.” (Kumagai, 2014)
* Students will be able to identify and describe the tenets of Narrative Medicine: attention, representation, affiliation (Charon, 20016)
* Student will learn to conduct close reading exercises using prose, poetry, essays, short films, photography, and works of art assigned by preceptor
* Student will participate in Pediatric Intensive Care (PICU), Neonatal Intensive Care (NICU), and Pediatric Hospitalist rounds with direct faculty preceptor supervision, and write parallel chart entries based upon patient encounters.
* Student will elicit a narrative from a patient, listen while the patients tells his/her story, and then transcribe the story, concentrating on capturing its essence. The student will then read his/her written version of the patient’s story back to the patient. This experience will be conducted under the direct supervision of the faculty preceptor. This exercise has been shown to develop the skills of narrative competence and attentive listening, and ultimately result in enhanced affiliation with the patient the patient care experience from the patient perspective. (Chretien et al, 2015; Das Gupta, 0007; Kumagai, 2008)
* Student will respond to writing prompts and actively participate in discussion of these written entries with preceptor.
* Student will choose a piece of short fiction (poetry or prose), short film, photographs, or work of art and lead a Narrative Medicine exercise for M3 and M4 students assigned to NCH, including a close reading, in-depth discussion, and response to a writing prompt under the direct supervision of the faculty preceptor.

**Learning Activities**

Student will participate in close reading and writing exercises daily, both scheduled with the preceptor as well as independently as directed by the preceptor. Student will participate in NICU, PICU, and Hospitalist wounds, elicit and transcribe patient illness narratives, and write reflectively about patient encounters. Student will actively participate in discussion of readings and his/her reflective writing. At the end of the course, student will lead a 1 and ½ hour Narrative Medicine workshop consisting of close reading exercises, discussion, and writing prompt. These workshops already occur as part of the UCF COM pediatric clerkship at Nemours Children’s Hospital and are currently led by the preceptor, Olivia DiLeonardo.

**Electives**

**General Miscellaneous Categories**

**MedU Course (CLIPP, SIMPLE, WISE, CORE, fmCASES)**

**MDE 8900 First Day: Sign in to the course(s) for which you**

**Part-time (2 weeks) signed up and complete the cases by the end of the block.**

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| **(UCF COM) UCF College of Medicine** **Grading Basis: Pass/Fail** **Primary Faculty Supervisor: Dr. Colleen Moran-Bano** ***Contact Person: Ken Staack, Coordinator,*** ***ken.staack@ucf.edu*****Maximum Enrollment: Unlimited** |  |

This course will focus on one of the following MedU courses for a two-week elective: CLIPP (Pediatrics, CLIPP Culture in Health Care, CLIPP Medical Home), CORE Radiology, WISE-MD (surgery), fmCASES (family medicine) or SIMPLE (internal medicine). Students will utilize the online MedU virtual patient courses found at <http://www.med-u.org>. Each course contains 30+ interactive cases with links for additional learning. Many of the courses have formative multiple choice questions associated with each case. Students choosing CLIPP, CORE, fmCASES, or SIMPLE will be required to complete and pass a summative assessment through MedU for successful completion of the course. These exams must be administered at College of Medicine before a grade for the elective can be assigned. The courses will be pass/fail.

**Learning Activities**

Student is responsible for completing the entire selected virtual patient course on line and completing any required assessment activities associated with the course.