Adolescent Medicine

PED E 10 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

Fourth year medical student, successful completion of pediatrics clerkship.

Course Description

Adolescence is a time of change whether socially, mentally, or physically. Adolescent Medicine is an important aspect of Pediatrics, Family Medicine, and Internal Medicine. Adolescent patients are also seen in most other areas of medicine. Having an understanding of Adolescent Medicine will benefit you no matter what area of medicine you choose. Often there is not adequate time during Internship or Residency for this valuable part of your education. The 4th year of medical school is an ideal time to take this elective.

1. Appreciation of adolescent development as it pertains to health care and delivery.
2. Application of standard interviewing techniques to adolescent health care provision.
3. Understanding of common adolescent health care needs.

Course Faculty and Staff

- Cynthia Powell (Course Staff)
- Tom Martinko MD, FAAP, (Director)

Meeting Place and Time

Monday - Fridays 8:00 a.m. - 5:00 p.m., Adolescent Clinic, CMS building, SW 16th Ave

Course Materials

Various Adolescent Medicine texts, Journal Articles, Appropriate Internet sources

Additional Information

Students will attend various clinics, including adolescent clinic, eating disorders clinic and psychiatry clinic. You will present a topic to different teen groups in the community with the pediatric resident on the rotation. You will also present on a topic of interest to the team at the end of your rotation.
Advocacy Through Pediatrics
PED E 24 | 4th Year Elective | Pediatrics | Basic Science

Prerequisites
Satisfactory completion of the third year pediatric clerkship - 4th year medical student

Course Description
The pediatric advocacy rotation is designed to enhance students understanding of their professional role and duty to advocate as it relates to their patients and community. The rotation will help to equip the students with the tools they need to perform a needs assessment of their community, form partnerships with community based organizations, and advocate locally and as part of the legislative process. If students have a particular issue for which they wish to advocate, then the activities of the rotation will be centered around said issue.

Course Faculty and Staff
- Michele Lossius MD (Director)
- Amy Cole (Course Staff)
- Cynthia Powell (Course Staff)

Meeting Place and Time
Please contact Dr. Lossius prior to the first Monday of each rotation by email to determine a time and place for orientation. The orientation will be provided by Dr. Lossius or Susan Horky. At this time a 4 week calendar of events will be provided.

Course Materials
Pediatrics 2005;1151092-1094, 1119-1212
AAP Advocacy Guide
"So You Think You Want to Make a Difference" (article)

Additional Information
Please think about an advocacy project idea prior to the start of the rotation. If you need to discuss possibilities, then please contact Dr. Lossius via email prior to the start of your rotation.

Alternate Contact = Amy Cole; 252-273-8594; Room HD 513; email coleaj@peds.ufl.edu

Ambulatory and Community Family Medicine
CM E 32 | 4th Year Elective | Community Health and Family Medicine | Clinical Science
Prerequisites

Completion of 3rd year requirements

Course Description

COURSE GOALS: This course is designed to provide the student with exposure to outpatient experience in either the family practice center and/or family physicians in practice outside the residency program. In the FPC, students will experience the continuity of care in the residency program, and enhance their knowledge of ambulatory care, evaluation and management. In alternative sites, students will be exposed to different practice models including solo private practice, group practice, rural practice (with one including obstetrics), and private practice with hospital care included.

Course Faculty and Staff

- Kimberly K Zinkel (Course Staff)
- Tina Engstrom (Course Staff)
- Karen L. Hall MD (Director)

Meeting Place and Time

Prior to beginning the rotation, please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main, to get the time and location.

Course Materials

Family Medicine Textbook

Ambulatory Pediatrics

PED E 14 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

The successful completion of the 3rd year of medical school training, specifically the pediatric clerkship.

Course Description

COURSE GOALS: To participate in a variety of pediatric ambulatory sub-speciality outpatient clinical settings. To enhance the student's ability to obtain, evaluate, and process multiple forms of clinical data in pediatric subspecialty patient encounters.

Course Faculty and Staff

- Cynthia Powell (Course Staff)
Meeting Place and Time
The majority of clinics are located in the Shand's Medical Plaza, Shands Children's Hospital or the Ayer's Building.

Course Materials
A general pediatric text. This may include Nelson's Textbook of Pediatrics or Rudolph's Pediatrics. An additional quick review condensed text may also be helpful in the quick paced ambulatory settings.

Additional Information
The student will contact the course director no less than two weeks prior to the rotation. The student and course director will create a rotation with pediatric subspecialty care clinics based on the students interests and specific goals while also considering clinic availabilities.

Autopsy Pathology
PATH E 2 | 4th Year Elective | Pathology | Clinical Science

Prerequisites
Student should have successfully passed General Pathology and Immunology as well as Systemic Pathology and Laboratory Medicine (Sophomore Year).

Course Description
COURSE GOALS: This elective is structured to provide senior medical students an introduction to autopsies and postmortem examinations, including death investigations, forensic autopsies, detailed dissections, toxicology and court testimony. During this elective, the student will:

1. Review medical, social and other information, formulating appropriate workup strategies
2. Review organ pathology through active participation in autopsies (including dissecting), autopsy conferences, and case reviews.
3. Enhance physical diagnostic skills applicable to gross analysis of organs, and expand those findings with the microscopic examination of samples taken.
4. Understand COD (cause of death) and MOD (manner of death) determinations and which deaths must be reported to the medical examiner's office
5. Become competent at certifying natural deaths.

**Course Faculty and Staff**

- Martha J Burt MD (Director)
- William Hamilton (Other Faculty)
- Nancy Hardt MD (Other Faculty)
- Deena Weiss (Course Staff)

**Meeting Place and Time**

8:30 am: Autopsy Unit (MG-35), OR the District 8 Medical Examiner's Office, 606 SW 3rd Avenue, 352-273-9292.

**Course Materials**

Current autopsy cases, including hospital and forensic cases. Selected readings as assigned by director.

**Additional Information**

This rotation combines the resources of the Shands/UF morgue and the District 8 MEO, necessitating travel between the two locales. Students are given the opportunity to attend crime scenes and perform autopsies, at the discretion of the director.

**Brain Stimulation Unit (BSU) at Shands**

*PSY E 4 | 4th Year Elective | Psychiatry | Clinical Science*

**Prerequisites**

Completion of third year clerkship

**Course Description**

This elective offers additional training in acute, inpatient psychiatry and psychopharmacological treatment, with a particular emphasis on electroconvulsive therapy.

**Course Faculty and Staff**

- Louis Solomon MD (Co-Director)
- Robert N Averbuch MD (Other Faculty)
- Terry Lemesh (Course Staff)

**Meeting Place and Time**

Brain Stimulation Unit (BSU); 5th floor, Shands Hospital, 8am
Breast Cancer: A Multidisciplinary Perspective
SUR E 15 | 4th Year Elective | Surgery | Clinical Science

Prerequisites
4th year student

Course Description
Students will gain a multidisciplinary perspective on the current management of breast cancer by spending time with members of the UF-Shands Breast Cancer multidisciplinary program (Surgical Oncology, Medical Oncology, Radiation Oncology, Radiology, Pathology, and Genetics). Through hands-on patient experience students will develop a thorough understanding of the role that each specialty plays in the modern management of breast cancer patients. Students also will participate in the weekly breast cancer tumor board culminating with a brief lecture to the members of the breast cancer tumor board on a current topic in breast cancer

Course Faculty and Staff
- Stephen Grobmyer MD (Director)
- Julia K Marshall (Other Faculty)
- Nicole A Massoll MD (Other Faculty)
- Mandy Robertson MD (Other Faculty)
- Judith Lightsey MD (Other Faculty)
- Michele Silver (Course Staff)
- Brittany Fink (Course Staff)

Meeting Place and Time
Contact Dr. Stephen Grobmyer (stephen.grobmyer@surgery.ufl.edu) (265-0169) 1 week prior to course for meeting time and location and schedule.

Course Materials
Handouts provided as needed.

Burn Unit
SUR E 7 | 4th Year Elective | Surgery | Clinical Science
Prerequisites

Surgery 3rd year clinical rotation

Course Description

COURSE GOALS: Participate as an active team member providing comprehensive patient management under supervision, thus permitting the student to become familiar with the role of an intern. Assessment and treatment of patients with thermal, chemical and electric injury stressing resuscitation and emergency management, infection control, nutritional support, surgical treatment and rehabilitation. Patient management involves the critical care, surgical, rehabilitative and outpatient settings.

Course Faculty and Staff

- Michele Silver (Course Staff)
- David W Mozingo MD (Director)
- Winston Richards MD (Other Faculty)
- Brittany Fink (Course Staff)

Meeting Place and Time

Burn Center, Shands Hospital, 0700 daily.

Child and Adolescent Psychiatry

PSY E 5 | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites

Fourth Year Medical Student - students must contact the Course Director prior to the start of their rotation.

Course Description

This rotation will be tailored to the specific interests and needs of participating students. It can include inpatient as well as outpatient experiences (autism, ADHD, OCD, Tourette's Disorder, Mood and Thought Disorders); rotations to community-based or off-clinic sites; including community mental health in rural settings; juvenile justice and inpatient child psychiatry. Tuesday AMs can be spent with child psychiatry fellows in didactics. This elective is well-suited for students who want to learn more Child and Adolescent Psychiatry; whether they wish to enter a primary care or a Psychiatry residency in the future.

Course Faculty and Staff

- Mathew L Nguyen MD (Director)
- Robert N Averbuch MD (Other Faculty)
Meeting Place and Time

Students must contact the Course Director prior to the start of their rotation.

Time: 8am at beginning of rotation
Place: Division of Child and Adolescent Psychiatry Outpatient Clinic
Springhill
E-mail Mathew Nguyen, MD at mlnguyen@ufl.edu

Course Materials


Additional Information

Faculty Participants - All faculty of the Division of Child and Adolescent Psychiatry.

Clinic and Consultation Service in Neurology

NEUR E 1 | 4th Year Elective | Neurology | Clinical Science

Prerequisites

3rd year Neurology clerkship

Course Description

To increase the student's knowledge of the nervous system, and of neurologic disease; to improve his/her ability to evaluate patients with neurologic disease; and to enhance his/her skills in the diagnosis and treatment of neurologic disease. The outpatient and consultation service setting allows students considerable time for reading and in-depth consideration of the patients they see. This course is recommended to students committed to a career in neurology; to students potentially interested in neurology as a career and seeking help in making a choice; and to students not interested in neurology as a career but wanting to improve neurological skills in preparation for a career in a related field or simply those seeking a well-rounded clinical education. The setting (consultation and clinic) time distribution can be taylored to address the student's goals.

Course Faculty and Staff
Meeting Place and Time

L3-100 (Brain Institute); 8:00 am Monday at start of elective to get orientation from staff; handout. Then meet with residents on ward 65.

Course Materials


Additional Information

The location (inpatient/clinic) and focus of the activities will be tailored to each student's needs and goals. It is possible to focus on a subspecialty (example - behavioral neurology) or a location (example - Malcom Randall VAMC) with prior approval of the director before beginning the course.

Clinical Cardiology

MED E 4 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

Fourth Year Medical Student

Course Description

Students will work closely with specific faculty preceptors and fellows in cardiovascular medicine. Duties will consist of evaluating patients with cardiovascular problems on the inpatient medical and surgical services. This typically includes patients with coronary artery disease, angina, and atrial fibrillation. In addition, students can expect to evaluate patients for preoperative cardiovascular risk assessment prior to non-cardiac surgery. Other common referrals include syncope, chest pain, dyspnea, congestive heart failure, and congenital heart disease in adults. Students will evaluate patients semi-independently and will present information to the fellow and attending on consult rounds. In addition, students on this elective participate in our cardiovascular teaching conferences, which include a weekly Clinical Case conference, a conference series for Housestaff, Cardiology Grand Rounds, and Medical Grand Rounds. During the elective, students will have formal directed exposure to reading ECG's, supervising treadmill stress tests, and observing a limited number of cardiac catheterization procedures. Students may take the elective for 2 weeks or 4 weeks. Only one student will take the elective at a time.

Course Faculty and Staff

- Mimi Jolicoeur (Course Staff)
Meeting Place and Time

On the first day of the elective, please report to room M-421 between 8:00 and 8:30 in the morning.

Course Materials

A written handout with schedules and instructions will be provided on the first day of the elective.

Additional Information

Before and during the elective, contact Mimi Jolicoeur at (352) 273-9079 or jolicmd@medicine.ufl.edu for assistance. You may also contact Matthew McKillop, MD at (352) 273-9079 or mckilms@medicine.ufl.edu for questions or concerns.

Clinical Chemistry, Hematology and Coagulation: Laboratory Approaches to Clinical Medicine

PATH E 4 | 4th Year Elective | Pathology | Clinical Science

Prerequisites

Successful completion of the basic science curriculum.

Course Description

This rotation is provided by Drs. William E. Winter, Neil Harris, and Lindsay Bazydlo. Topics to be reviewed in mini-seminar format include the application of clinical chemistry to clinical medicine, clinical interpretation of laboratory results and analytical methods used in clinical laboratory practice. Included in this rotation will be an emphasis on coagulation testing and related hematology topics. An emphasis is placed on the effects of pre-analytical variability on laboratory testing. The clinical clerk also will gain exposure to the clinical chemistry consult service. Much of this work involves interpretation of SPEs, UPEs, IFEs, hemoglobin electrophoresis and HIV antibody western blots. Rotations through the STH-UF laboratory and Stat lab can be arranged to familiarize the student with the daily operation of the laboratory.

Students should collect the MR#'s of interesting patients that they would like to discuss. At least one mini-seminar will be held daily with the attending faculty. Often 2 mini-seminars will be conducted daily. Electrophoresis is interpreted in the afternoon. It is expected that students will spend a minimum of 1 hour preparing for the mini-seminar and 2 hours of reading after each mini-seminar. Students can review the gels prior to electrophoresis interpretation (1 hour). Electrophoresis rounds takes 1 to 2 hours. Following rounds, students should read about the cases discussed (~2 hours).
Course Faculty and Staff

- William E Winter MD (Director)
- Deena Weiss (Course Staff)

Meeting Place and Time

On the first day of the rotation students should attend the Clinical Pathology (CP) conference at 7:30 AM in D6-10 (D = dental; 6 = 6th floor), Room 10). After the conference Dr. Winter and the student will plan when they will meet.

Course Materials


Additional Information

This rotation provides an overview of the daily life of the academic clinical pathologist. This is a great opportunity for students to review the integration of basic and clinical science in preparing for USMLE step 2.

Clinical Dermatology

MED E 11 | 4th Year Elective | Dermatology | Clinical Science

Prerequisites

4th year medical students.

Non-UF students applying for this rotation should also submit a copy of their transcript and a personal statement.

Course Description

Provide instruction in the techniques of examination of skin.

Enhance the student's vocabulary in describing skin lesions.

Introduce the student to most of the common skin diseases and a few of the less common diseases.

Provide experience in dermatological prescribing and compounding.

Demonstrate the techniques of skin biopsy as well as surgical excision.

Demonstrate competence in the preparation of a dermatologic topic of interest or a case presentation for the small group learning sessions (approximate 15-20 min each)

Course Faculty and Staff
Meeting Place and Time

8:00 AM on First day of rotation - report to UF Dermatology Skin and Cancer Clinic, located in Springhill Medical Building, located at 4037 86th Terrace, Gainesville (off 39th Ave near Santa Fe College) 4th floor of the building.
Phone 352-594-1500

Course Materials

Dermatology for the House Officer
Color Atlas and Synopsis of Clinical Dermatology
Kodachromes provided by Dermatology
(These are provided by the department for the period of the rotation and turned in at the completion of the rotation.)

Additional Information

Participants should receive email from Derm Ed Coordinator prior to rotation - Christine Dortch.
email = christine.dortch@medicine.ufl.edu
phone = 352-392-4984

Clinical Elective in Anesthesia-Shands OR and VA OR/Pain Clinic

ANS E 1 | 4th Year Elective | Anesthesiology | Clinical Science

Prerequisites

This course is primarily intended for students considering residency training in anesthesiology.

Students entering related specialties such as emergency medicine who wish to gain additional practical exposure to anesthesiology should schedule this course later in the academic year when educational opportunities will be better.

Please contact the course director, Dr. Andrew Pitkin, at apitkin@anest.ufl.edu with any questions.

NOTE - Non-UF students who apply to participate in this rotation should submit the following in addition to their application: copy of transcript; photo attached to application; letter of recommendation; letter of good standing and a written statement of why you are interested in participating in an Anesthesiology elective with the University of Florida College of Medicine. Due to VA requirements, it may not be possible for visiting students to rotate to the VAMC.
Course Description

During this course the student will learn the basics of airway management, mechanical ventilation, invasive hemodynamic monitoring, management of fluids, and use of vasoactive medications. In addition, the student will be taught concepts of preoperative evaluation, basic principles of anesthesia and management of acute postoperative. Students will be expected to attend daily departmental conferences and seminars.

Course Faculty and Staff

- Myrtle Williams (Course Staff)
- Andrew D Pitkin MD (Director)
- Christopher Giordano MD (Co-Director)
- Steven A Robicsek MD (Co-Director)
- Nikolaus Gravenstein MD (Other Faculty)

Meeting Place and Time

7:30 am in M-504 MSB on the first day of the rotation, then 0630-1700 daily.

Course Materials

Recommended textbook, Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

Participants will be exposed to the operating rooms of Shands, FSC &/or the VA.

Additional Information

Day-to-day scheduling is flexible including possible rotation through several subspecialties or focus on a single subspecialty (neurosurgery, cardiothoracic, pediatrics, obstetrics, orthopedics, pain, regional, etc) - please let the course manager (Ms. Myrtle Williams) know in advance if you have any preferences. There are a few lectures throughout the course but clinical experience and contact with faculty is emphasized.

Clinical Elective in Gynecology

OGB E 3 | 4th Year Elective | Obstetrics and Gynecology | Clinical Science

Prerequisites

Fourth year medical student

Students from outside institutions must meet the minimum criteria for being granted an interview for a UF OB/GYN residency position in order to be considered for the clerkship.

Course Description
This course will allow the student to gain experience in the management of outpatient problems commonly encountered by a general gynecologist. The student will learn how to properly perform a colposcopic examination. In addition, the student will gain experience in the perioperative management of gynecologic surgery patients. The student will accomplish these goals by working closely with the faculty and residents in clinics at the Medical Plaza, by performing minor surgical procedures and assisting with major cases, by rounding with the resident team, and by attending division educational conferences.

**Course Faculty and Staff**

- John D Davis MD (Director)

**Meeting Place and Time**

Meet the Gyn Chief Resident in the Gyn O.R at 0800 on the first Monday of the rotation.

**Course Materials**

TeLinde's Operative Gynecology, Comprehensive Gynecology, and assigned articles

**Additional Information**

Please contact me by email at Davisjd@ufl.edu one week before the beginning of your rotation so I can share other information with you.

The department contact person for this course is my administrative assistant, Ruth Ann Klockowski. She can be reached at 273-7660 or Klockora@ufl.edu.

**Clinical Elective in MICU**

MED E 12 | 4th Year Elective | Internal Medicine | Clinical Science

**Prerequisites**

Medicine clerkship is mandatory  
Sub-internship in Medicine is desirable

**Course Description**

Student will participate in the care of critically ill patients under the supervision of upper level internal medicine residents, pulmonary & critical care fellow and MICU attending.

Student will deliver succinct presentations during interdisciplinary MICU rounds. Student will write informative and insightful progress notes. Student will learn about coordination of care in the ICU. Student will learn about physician-to-family communication with special attention to end-of-life issues.
Student will learn to interpret arterial blood gases, portable chest X-rays, and data from invasive monitoring of hemodynamics. Student will learn to evaluate and manage common problems in the ICU including fever, hypoxemia and hypotension. Student will learn to manage septic shock, ARDS, toxic syndromes and other problems. Student will learn about principles and practice of invasive and non-invasive mechanical ventilation. Students will learn about use of analgesics and sedatives in the ICU. Students will learn to manage discontinuation of mechanical ventilation. Student will learn about use of continuous infusions of various agents (vasopressors, vasodilators, inotropic / chronotropic agents, anti-arrhythmics, insulin, drotrecogin, analgesics, sedatives, paralytics). Student will learn about nutrition in ICU patients. Student will learn best practices for prevention of pulmonary embolism, ventilator-associated pneumonia, line infection, and gastritis / stress ulcer in ICU patients.

Student may perform certain invasive procedures including placement of arterial catheter and placement of central venous catheter. Student will learn indications for and may observe certain invasive procedures including intubation, bronchoscopy, chest tube placement, pulmonary artery catheterization, and percutaneous dilational tracheosotomy.

Students will participate in a series of small group discussions led by MICU fellow and / or attending addressing several topics of incontrovertible importance to the practice of critical care medicine. Discussions will include references to clinical cases, clinical trials, clinical guidelines and other materials.

**Course Faculty and Staff**

- Hassan Alnuaimat MD (Other Faculty)
- Jorge Lascano MD (Director)
- Jon Coffey (Course Staff)
- Irahim Faruqui MD (Other Faculty)

**Meeting Place and Time**

Contact Jon Coffey prior to the start of the rotation 352-273-8667 or via email jon.coffey@medicine.ufl.edu. The meeting place will be in M452 at 9 am in the HSC for the first morning of the rotation.

**Course Materials**

- Fink Textbook of Critical Care
- Marino The ICU Book.
- Articles of Interest.
- ARDS.
Results of this study found the use of low (6 ml/kg predicted weight) rather than "standard" (12 ml/kg predicted weight) tidal volumes reduced mortality from 40 to 30%.

A NHLBI ARDS net randomized trial comparing high and low PEEP strategies in 549 patients with ALI or ARDS found no significant difference in mortality, ventilator-free days, ICU-free days, or organ failure-free days in the two groups.

This study randomized 180 patients with persistent ARDS (7 to 28 days after onset) to methylprednisolone (daily dose 2 mg/kg x 14 days then 1 mg/kg x 7 days) vs. placebo. Hospital mortality and 180-day survival were comparable, but patients enrolled 14 or more days after ARDS onset had increased 60-day mortality (35% vs. 8% placebo, p = .02).

This study of 91 patients with severe ARDS has added fuel to the debate over systemic corticosteroid use in acute lung injury. The intervention group received steroids within 72 hours of ARDS diagnosis and a slow taper. Steroid recipients had decreased duration of mechanical ventilation and ICU stay. The higher proportion of patients with catecholamine-dependent shock among controls, cross over from control to steroids in "nonresponders" at day 7, and 2:1 randomization of treatment to control are among the concerns raised since its publication.

A randomized study, comparing conservative vs. liberal fluid management (via explicit protocols) applied over seven days to 1000 patients with acute lung injury. Although there was no significant difference in the primary outcome of 60-day mortality, the conservative strategy of fluid management shortened the duration of mechanical ventilation and ICU stay without increasing nonpulmonary-organ failure.

SEPSIS.

This update of the 2004 guidelines utilized a new approach for grading the evidence underlying recommendations. Noteworthy changes include elimination of the cosyntropin stim test and downgrading the recommendation to "weak" for hydrocortisone in patients with persistent shock and for activated protein C in patients with severe sepsis.

RCT (N = 499) found no 28-day mortality benefit to "physiologic" doses of hydrocortisone administered within 72 hours of sepsis onset, independent of the response to a corticotropin stim test. Difficulty with patient recruitment and lower than expected mortality led to the study having a power of < 35% to detect a 20% reduction in relative risk of death.
This RCT of 263 patients found benefit from early (in E.D.) aggressive resuscitation (in-hospital mortality of 30% in the goal-directed group compared to 46% in the standard therapy group). The intervention arm was noteworthy for prn use of blood transfusion and/or inotropes to maintain central venous O2 sat >70%. Authors speculate the earlier aggressiveness accounts for better outcomes than previous studies of goal-directed hemodynamic optimization.

**HYPOTHERMIA**

   This article shows that in patients who have been successfully resuscitated after cardiac arrest due to ventricular fibrillation, therapeutic mild hypothermia increased the rate of a favorable neurologic outcome and reduced mortality.

**NEPHROLOGY AND ICU**

   This review article explains the various forms of hemodialysis, ultrafiltration, and hemofiltration as well as the most common ICU indications for Renal Replacement Therapy.

**LIVER AND ICU**

1. http://ajrccm.atsjournals.org/cgi/reprint/168/12/1421
   Review of the most common liver problems in the ICU as well as their management.

   Update of the current practice guidelines for the treatment of varices, including use of antibiotics, octreotide, and IV PPI in the intensive care setting.

**ENDOCRINE AND ICU**

1. http://pmj.bmj.com/content/83/976/79.long
   This review discusses the management of diabetic ketoacidosis, hyperosmolar hyperglycemic state, hypoglycemia, hypercalcemia, thyroid storm, myxedema coma, acute adrenal insufficiency, pheochromocytoma hypertensive crisis and pituitary apoplexy in the adult population.

**SEDATION AND ICU**

   RCT found daily interruption of sedation in a MICU population resulted in shorter duration of mechanical ventilation and ICU stay, less total dose of sedation, and less use of diagnostic tests to work-up impaired mental status compared to the control group. No increase in short term adverse outcomes in the intervention group identified but patients were not evaluated for subtle or long-term adverse outcomes.
This study is noteworthy for finding use of dexmedetomidine reduced the prevalence of delirium (54% vs 77% with midazolam) and for providing further evidence of the safety of using dexmedetomidine at higher doses and longer duration than currently approved by the FDA. There was no difference in the primary outcome, time spent at target level of sedation. Duration of mechanical ventilation was shorter with dexmedetomidine but length of ICU stay was similar.

WEANING MECHANICAL VENTILATION

Prospective, randomized study found once daily or multiple daily trials of spontaneous breathing (T-piece or CPAP <5 cm) resulted in more rapid successful extubation than gradual weaning of pressure support or IMV.

This RCT found the combination of daily sedation holiday and daily weaning trials resulted in reduced ventilator days and reduced mortality compared to daily weaning trials alone (HR 0.68, p = .01, NNT to save one life 7).

BMT AND ICU

1. http://ajrccm.atsjournals.org/cgi/reprint/170/1/22
A State of Art article that provides an excellent overview of the complications of solid organ and hematopoietic stem cell transplantation

Additional Information

You will received a list of articles of interest for your review before you start the rotation.

Clinical Endocrinology and Metabolism

MED E 7 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

4th year medical students

Course Description

Previous information:

Hands-on experience in diagnosing and treating patients with endocrine diseases.

Supervision by attendings, fellows and residents on the Adult Endocrine consult and clinic services. The consultation service responds to referrals from both the VA and Shands hospitals and emphasizes teaching, both within the consult team and also directed toward the referring team.
Students are given the opportunity to see patients in Various specialty clinics. Students experience a wide range of illnesses in these clinics (Diabetes, Lipid, Osteoporosis, Pituitary Tumors, Thyroid) and get exposure to thyroid ultrasound.

Weekly clinical conferences include, presentation of great cases and student presentations on clinically inspired topics.

**Course Faculty and Staff**

- Kenneth Cusi MD (Director)
- Valerie Myrick (Course Staff)

**Meeting Place and Time**

At 8:30 a.m. CLINIC LOCATION: Medical Plaza Building, 3rd floor IMMS Clinic

**Course Materials**

Consults daily with scheduled out-patient clinics and/or in-patient consult service (5 days per week). Assigned readings.

**Additional Information**

Endocrinology Out-Patient clinic is located on the 3rd floor of the Medical Plaza Bldg., except for the Pituitary Clinic which is held on Fridays pm in the Neurosurgical Clinic (on the 1st Floor of the main hospital building just beside Shands Atrium and the outpatient lab and pharmacy

---

**Clinical Gastroenterology**

**MED E 2 | 4th Year Elective | Internal Medicine | Clinical Science**

**Course Description**

This course will provide an introduction to an understanding of common digestive and liver diseases including pathophysiology, diagnosis and treatment. The course will include inpatient consultation, outpatient clinics, and a thrice weekly lecture series.

**Course Faculty and Staff**

- Christopher E Forsmark MD (Director)
- Deanna Cardwell (Course Staff)

**Meeting Place and Time**

Division of Gastroenterology, Human Development Building, 6th Floor, 8:00am every morning.
Course Materials

Appropriate references and handouts provided by the faculty and fellows within the Division. The reference textbook to be utilized will be Gastrointestinal Disease, Schlesinger and Fordtran, 9th Edition, 2010.

Selected references and reviews are included on the divisional website, www.medicine.ufl.edu/gastro

Clinical Hematology

MED E 18 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

Fourth Year Medical Student

Course Description

Goal of the course: To understand the approach to patients with hematological problems including red cell disorders, hemostasis and thrombosis, cytopenias, and primary bone marrow disorders. Anticoagulation and perioperative management of hematologic issues will also be an emphasis. The student will be a team member of the Shands-UF Hematology inpatient consult service and see patients with attending physicians in the Hematology outpatient clinics. Activities will include weekly Hematology case conferences and other Hem/Onc teaching conferences.

Course Faculty and Staff

- Marc S Zumberg MD (Director)

Meeting Place and Time

Please alert us to your rotation at least one week prior so we can plan an optimal experience for the student.

E-mail Dr. zumberg at zumbems@medicine.ufl.edu. The rotation will start at 8:30 am on the first day of your rotation

Course Materials

MEDLINE, web-based resources, clinical guidelines, and additional references including relevant textbook material provided by the faculty. Evidence-based approaches will be emphasized.

Additional Information
We welcome and encourage your participation in this elective. The amount of inpatient vs. outpatient experience can be negotiated based on the specific interests of the students.

Clinical Hematology/Oncology

MED E 6 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

Fourth Year Medical Student

Course Description

Students will work with a diverse faculty to learn the basic and applied principles for the care of patients with cancer and blood disorders. This is primarily an outpatient clinic rotation, however some inpatient time, if desired by the student, may be negotiated.

Course Faculty and Staff

- Merry-Jennifer Markham MD (Director)
- Stephanie McGrail (Course Staff)

Meeting Place and Time

Contact Dr. Markham (273-7832 or merry.markham@medicine.ufl.edu) one week prior to the rotation's start for exact meeting place and time.

Most clinics are held in the Medical Plaza/Davis Cancer Pavilion, 2nd Floor.

Course Materials

MEDLINE, HSC Library resources, web-based resources, clinical guidelines, and additional references including relevant textbook material provided by the faculty. Evidence-based approaches will be emphasized.

Additional Information

A weekly schedule will be provided to the student at the start of the rotation. This will outline clinic experiences and conference attendance which will be expected during the rotation.

Clinical Ophthalmology

OPH E 1 | 4th Year Elective | Ophthalmology | Clinical Science

Prerequisites

4th year medical student - Basic understanding of ophthalmology

This course is not open for periods 1 and 2 to non-UF students.
**Course Description**

Clinical Ophthalmology is generally a 4-week elective during which time the medical student has the opportunity to rotate on a variety of subspecialty ophthalmic services. Students will work directly with the residents, fellows, and attending physicians. The rotations in which the student can participate include cornea and external disease/general; retina-vitreal; glaucoma; oculo-plastics; pediatrics; and neuro-ophthalmology.

**Course Faculty and Staff**

- Mabel Wilson (Course Staff)
- Anup Kubal MD (Director)

**Meeting Place and Time**

The student must initially come to Mabel Wilson or Debi Jackson (352-273-7540) in the Department of Ophthalmology; Room M-120K or M-120L on the Friday before the rotation begins, or on the beginning Monday. Students are expected to be in clinic on Monday.

**Course Materials**

There is a hand-out which can be obtained from Mabel Wilson or Debi Jackson in the Department of Ophthalmology. Students can ask for reading materials which are abundant and can be obtained at the Library or online through various websites. A list of course objectives will be provided in the orientation packet on the first day of the rotation.

**Additional Information**

Students interested in pursuing ophthalmology residency at UF are encouraged to present at a Grand Rounds for the department. Students should let Ms.Wilson know which residents/faculty they worked with at the end of each week to allow for accurate evaluations. A grade cannot be provided until this is done.

**Clinical Pediatric Gastroenterology**

PED E 6 | 4th Year Elective | Pediatrics | Clinical Science

**Prerequisites**

Fourth Year Medical Student

**Course Description**

On-line curriculum available

COURSE GOALS: Learn basic aspects of pediatric gastroenterology/hepatology/nutrition.

**Course Faculty and Staff**
Meeting Place and Time

RG-120; 8:00am, Monday-Friday. (Outpatient and Inpatient experience)

Course Materials

File of pediatric gastroenterology/hepatology/nutrition articles; access to Medline.

Clinical Sciences of the Musculoskeletal System

ORTH E 1 | 4th Year Elective | Orthopaedics | Clinical Science

Prerequisites

Senior medical student - Satisfactory completion of core clerkship rotations - Students pursuing a career in Orthopaedics should schedule this elective for no less than 4 weeks.

NOTE - Non-UF students who apply to participate in this rotation should submit the following in addition to their application: copy of transcript; photo attached to application; letter of recommendation; USMLE Step 1 score (copy of document); and a written statement of why you are interested in participating in an Orthopaedic Surgery elective with the University of Florida College of Medicine.

Course Description

The program will be offered at UF&SHANDS

COURSE GOALS
1. Provide experience and education in the evaluation and management of musculoskeletal disorders in an inpatient, outpatient, and Emergency Room setting.

2. Students will be have supervised responsibility in patient care, receive instruction in methods of examination, diagnosis, pre-and postoperative care and surgical techniques as applied to the musculoskeletal system.

3. Students participate in daily clinical conferences.

4. Students will be assigned to one of the Orthopaedic services. There will be a limit to one extern (senior medical student) per service.

If scheduling permits, students may rotate on one or more of the Orthopaedic services during their ortho elective rotation.

Course Faculty and Staff

- Kendra Gordon (Course Staff)
- Richard G Vlasak MD (Director)
Meeting Place and Time
South Tower, OR Conference Room, 2nd Floor - 7:00 AM Mon-Fri

Course Materials
Greene, W.B.
Essentials of Musculoskeletal Care.

Other reference sources depending on orthopaedic rotation

Colorectal Surgery
SUR E 16 | 4th Year Elective | Surgery | Clinical Science

Prerequisites
Successful completion of 3rd year Surgery Clerkship

Course Description
COURSE GOALS: Upon completion of this course, the learner will be able to:

MEDICAL KNOWLEDGE 1. Evaluate and discuss common presenting signs and symptoms frequently seen by the practicing Colon and Rectal surgeon. 2. Complete a general surgery History and Physical. 3. Briefly describe the operative management of basic colon and rectal surgical problems, including, but not limited to: colon and rectal cancer, benign colon problems including colonic inertia, diverticulitis, inflammatory bowel disease, anorectal and pelvic floor disorder, and application of laparoscopy. 4. Recognition of recommended cancer screening and surveillance programs for colon and rectal patients.

PATIENT CARE 1. Demonstrate proficiency in common intern-level duties including nasogastric tube insertion, excision of thrombosed hemorrhoids, incision and drainage of perianal abscesses, and basic suturing. 2. Recognize the role of existing and emerging technology and research in the field and practice of Colon and Rectal surgery. 3. Reliably use the Internet and electronic tools as a medical resource.

PROFESSIONALISM 1. Expand his/her exposure to, and appreciation for, a career in colon and rectal surgery and academic surgery. 2. Become more keenly aware of the opportunities available to residents in general surgery.

LEARNING ACTIVITIES: The students who choose this rotation as an elective will participate as a member of a very busy and academic Colon and Rectal Service in the Department of Surgery at the University of Florida. He or she will become aware of the daily responsibilities of the general surgery intern, including education of 3rd year medical students and perioperative care of the surgical patient. Students will be expected to attend all General Surgery related conferences including Morbidity and Mortality Conference, Surgical Grand Rounds, Basic Science Conference and Mortality Conference, and Journal Club. Furthermore, the student will be assisting in the Operating Rooms and seeing patients in clinic. Although the curriculum is flexible, it is expected that the student will prepare for cases and conferences as any other member of the team, and will be held accountable for these. At the conclusion of the 4-week rotation, the student will present a 15-minute slide presentation on some aspect of Colon and
Rectal Surgery in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based, and articles from accredited journals should be referenced.

Course Faculty and Staff

- Sanda Tan MD, PhD (Director)
- Michele Silver (Course Staff)
- Brittany Fink (Course Staff)
- Jose Trevino MD (Other Faculty)

Meeting Place and Time

Monday mornings at 7:00 am at the Woodward conference room, 6th floor of Shands.

Course Materials

Selected readings from Greenfield's Surgery: Scientific Principles and Practice, Fifth Edition; Colon and Rectal Surgery Text book, Second Edition - Additional readings from current journals will be assigned during the rotation orientation on the first day.

Cytopathology: Diagnosis and Screening Applications in Human Disease

PATH E 13 | 4th Year Elective | Pathology | Clinical Science

Prerequisites

4th year Medical Student

Course Description

This elective will provide a broad experience in Cytopathology in the diagnosis of human neoplasia and inflammatory and infectious diseases. Experience and knowledge in the application and interpretation of cytopathologic samples including fine needle aspirates (FNA's) of the thyroid and other masses, bronchial brush and bile duct sampling, bladder washings, cervical cytologic sampling (Pap testing), body cavity fluid cytology, as well as other diagnostic experience will be gained. Correlation with current surgical pathology materials will be performed. Experience will include use and interpretation of immunohistochemistry, human papillomavirus molecular testing, and other diagnostic methods that can be applied to cytologic cellular samples. Daily morning teaching conferences are available at 7:30AM directed to Pathology education that the student is welcome to attend. Room 3149.

Course Faculty and Staff
Meeting Place and Time

Surg Pathology & Cytopathology, Shands at UF 3rd floor, room 3109 or (M-657). Please arrive at 8:30 a.m. on the first day. Professional dress rather than scrubs on day 1. Teaching conference at 7:30 at 3149 available. FNA clinic, Thurs AM as scheduled.

Course Materials

Materials available for study include:
- DeMay R, The Art & Science of Cytopathology, ASCP Press or the abbreviated one book text by DeMay (also by ASCP Press).
- Bibbo M Editor, Comprehensive Cytopathology, Saunders
- Geisinger, et al, Modern Cytopathology, Churchill-Livingstone

Active clinical cases reviewed one on one with the Cytopathologist. CD ROM and glass slide teaching materials. Major current reference medical texts and journals in the field. Lectures, conferences and direct faculty instruction.

Additional Information

This rotation includes active participation with pathology faculty in the Cytopathology and Surgical Pathology sign out areas, as well as patient contact within the FNA clinics. Please wear your UF badges at all times, and white coat on Thursdays.

Emergency Medicine - Elective Shands

EMD E 1 | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites

Satisfactory completion of third year curriculum.
Non-UF students applying for this rotation must submit a current CV and letter of recommendation along with the externship application.

**Course Description**

COURSE GOALS: This course will provide:

1. An introduction to acute care medicine where the student will be expected to function as a member of the physician team and actively participate in diagnosis and treatment of life-threatening illnesses. Students will be active participants in cardiopulmonary and trauma resuscitations.
2. Direct one-on-one supervision and teaching with an Emergency Medicine Attending and Senior Emergency Medicine Resident.
3. Experience in diagnosis and treatment of common ailments (i.e., wound management, treatment of ankle sprains, etc.) not routinely seen during inpatient rotations.
4. Experience in performing procedures (e.g. incision and drainage, lumbar puncture, suturing wounds, placing IVs, ABG sampling, central lines, nerve blocks, etc)
5. Ability to apply splints, and manage and dress wounds appropriately.
6. Opportunities to refine ECG and X-ray interpretation skills.
7. An understanding of how emergency room operates and how to effectively utilize its resources.
8. Study of separate curriculum from that of Required Clerkship.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

Orientation: First Monday of the rotation, Gainesville Time and location TBA, the Emergency Medicine conference room. Students will be contacted via email.

**Course Materials**


**Additional Information**

Rotation Shift locations:
Shands - 13;
EMS Ride Along - 1;
Observation of 911 dispatch - 2hrs.

**Emergency Medicine Ultrasonography**
EMD E 4 | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites

4th year medical student - Must be planning to match in emergency medicine

Course Description

- The mission of this rotation is to train future emergency physicians in the basics of emergency limited ultrasonography and to help them become proficient emergency sonographers who will use and incorporate their knowledge to positively enhance patient care. We will focus on bedside echo, aorta, gallbladder, FAST, EFAST to include pneumothorax, renal, pelvic, central and peripheral venous access and soft tissue. Other studies include assessment of volume status, foreign body location, musculoskeletal, scrotal, ocular, dvt.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- L. Connor Nickels MD RDMS (Co-Director)
- Eike Flach MD (Co-Director)

Meeting Place and Time

Emergency Room. Please email prior to first day and we will decide on schedule. times and meeting. These will vary as our schedules always vary.

Course Materials

Ma JO, Mateer JR, Blaivas M. Emergency Ultrasound. 2nd Ed. 2008

Websites - sonoguide.com

Additional Information

You will receive textbook on first day. You must return it on the last Friday of your 2 or 4 wk rotation.

Equipment:
3 Sonosite Turbos with 4 probes each, 2 in use in the department and 1 for educational purposes only
2 additional Sonosite Turbos available for use in trauma area, each
1 Sonosite Titan with microconvex probe

Multiple Phantoms available for teaching including pelvic, Internal jugular vascular access, other vascular access (peripheral, branched, pediatric) and foreign body models

Minimum of 50 or 80 scans, respectively, required during 2 or 4 wk rotation
Student required to save stills/video clips of all scans not performed live with Dr. Flach or Dr. Nickels for video review onto his/her own memory stick or external drive

Must complete all practicums with either Dr. Flach or Dr. Nickels

Must have a "case of the month" in which he/she researches the current literature regarding this subject and composes a short ppt presentation reviewing the case

Must scan on his/her own every week day that other assignments not made

Must complete scanning shifts with Dr. Flach or Dr. Nickels as assigned

***Important: If you are scanning alone or with other students/faculty/residents besides Dr. Nickels or Dr. Flach, you are ONLY ALLOWED to scan patients who are getting a CONFIRMATORY test DURING THEIR ED STAY which will include the area you are scanning. (for example, if the patient is getting an abdomen and pelvis ct, then you can ultrasound gallbladder, aorta, renal, pelvic, appendix, any fb/abscess/cellulites within this area only. However, if the patient is getting a gallbladder scan from radiology, then you may only scan their gallbladder.)

Endocrinology/Diabetes Clinical Clerkship

PED E 8 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

4th year medical student

Course Description

Endocrinology Elective: Goals

The goal of this elective is to allow the resident or student to acquire sufficient familiarity with common pediatric endocrine problems to deal with them intelligently at the general pediatric level including an appreciation of the range of normal variation in growth and development and when referral to a pediatric endocrinologist is indicated.

Successful completion of the elective should allow you to approach the pediatric shelf examination with confidence and meet long-term professional career goals. By completing the elective in pediatric endocrinology you should not expect to become proficient in the field. Nevertheless, by participating in the various activities of the division in the hospital, in outpatient clinics, and in diabetes summer camping and weekend retreat programs, the resident will be exposed to a diversity of pediatric endocrine problems.

In clinic you will work with diabetes educators, nutritionists, research coordinators, and members of the Psychology department who assist in difficult psychosocial cases. You are encouraged to talk to all personnel associated with the multiple aspects of our clinical and
research practice to learn more about pediatric endocrinology. You will be expected to interact courteously and professionally with all team members (professionalism, communication).

In order to ensure that all residents have adequate exposure to all aspects of pediatric endocrinology, residents or students attending diabetes camp (June, July or August) will be asked to separate their rotation into 2 week blocks such that they will have 2 weeks of the rotation during a non-camp month. We will work with you as well as the chief residents and medical school to coordinate your rotation for the best possible educational experience.

The Division of Pediatric Endocrinology has produced a detailed curriculum which will introduce you to the field of pediatric endocrinology. You will be expected to read the curriculum and engage in further reading/literature searches as needed for patient care and to satisfy your curiosity.

You will be given a copy of Styne's Pediatric Endocrinology to use as your primary reading source during the rotation. This must be returned before you complete the rotation. You are strongly encouraged to read this brief review of pediatric endocrinology in its entirety during your rotation. (PBL, medical knowledge, professionalism).

A. Specific Objectives
Residents and students taking this elective will be expected to attain the necessary skills to manage common pediatric endocrine problems. The endocrine syllabus has been divided into three categories in which different degrees of expertise are expected at the termination of the rotation. These are: Highly competent, i.e. the resident should acquire detailed knowledge of the topic and be able to diagnose and manage most patients with this condition and recognize those requiring referral for definitive diagnosis and treatment. Competent, i.e. the student should acquire general knowledge of the condition and be able to diagnose and treat with consultative help. Aware, i.e. the resident or student should be aware of the condition but should refer the patient to the subspecialty service for evaluation and management.

1. Highly Competent
   Short stature
   Failure to thrive
   Obesity
   Puberty-normal variations
   Adrenarche
   Thelarche
   Gynecomastia
   Delayed puberty
   Nutritional rickets

2. Competent
   Childhood goiter
   Congenital hypothyroidism
   Acquired hypothyroidism
Precocious puberty
Cryptorchidism
Turner syndrome
Klinefelter syndrome

3. Aware
Diabetes mellitus in children
Education of the family of a newly diagnosed patient
Outpatient management
Diabetic ketoacidosis
Complications of diabetes
Adrenal insufficiency
Congenital adrenal hyperplasia
Hypoglycemia
Cushing syndrome
Growth hormone deficiency and therapy for non-GH deficiency states
Thyroid nodules, carcinoma
Disorders of the adrenal medulla
Adrenal and gonadal tumors
Endocrine hypertension
Ambiguous genitalia
Epidemiology, etiology, and prevention of autoimmune endocrinopathies
Disorders of calcium, phosphate, and Vitamin D (other than nutritional rickets)
Parathyroid deficiency states
Hyperparathyroidism
Metabolic bone disease
Neonatal calcium and phosphate disorders
Disorders of water balance
Diabetes insipidus (central, nephrogenic)
SIADH
Hyperlipidemia

B. Specific Learning Experiences

1. Inpatient Service
You will be expected to follow patients on the inpatient and consult services. Student should pre-round on inpatients and consults so that rounds flow smoothly and there is time for teaching. Students are expected to be on time for rounds. Students are expected to present their patients accurately and concisely. Students are expected to read about their patients and participate actively in rounds. The attending on service will coordinate with the resident and the on service fellow how inpatients and consults will be assigned. (professionalism, practice based learning, medical knowledge, patient skills).
2. Outpatient Clinics
Clinic experiences are available all day Monday, Tuesday afternoon, all day Wednesday, and Friday morning (see Schedule below). Students will be expected to be on time for clinics. Clinic attendance will be the primary focus of the elective as the majority of pediatric endocrinology involves outpatient work-up. Students will be working under the direction of an Attending Physician. Patients will be put into rooms by the Nurse. Take this time to review the chart. Students should refrain from discussing the patient or reviewing the chart in any general area. Make sure that the door is closed in the Clinic Conference Room when patients are being discussed. (PBL, medical knowledge, professionalism)

Patients should be seen promptly and courteously. Residents will identify themselves to the patient, obtain the history and perform the physical examination, and present to one of the clinic Attendings who will review the history and physical findings with the patient/patient's family. Residents are expected to dictate all Endocrine patients. Students will not be required to dictate. Residents are expected to dictate all new Diabetes patients. Residents and students should fill out a clinic note on returning Diabetes patients, but do not need to dictate them. Please dictate/write up charts promptly- at the end of the day at the latest (professionalism, PBL, patient skills).

3. Nutrition
In the first week of the rotation, residents should schedule a session with our nutritionist to discuss the nutritional aspects of Diabetes and Obesity with a focus on carbohydrate counting and low fat diets (medical knowledge).

4. Diabetes Education
In the first week of the rotation, residents should schedule a session with one of the C.D.E.'s to discuss practical aspects of diabetes management. Attending the education session for a newly diagnosed diabetes patient is a priority and will be encouraged in lieu of attending clinic. This session should include discussions on the various types of meters, insulin delivery devices, etc. (medical knowledge).

5. Referrals to the Endocrine Service
Every Tuesday morning, residents will review with the attending the previous week's referrals to the endocrine service. Residents will be expected to make recommendations as to whether/how quickly the new referrals should be seen based on a review of the chart and reading (PBL, medical knowledge).

6. Fellow's Journal club
Residents should attend the monthly fellows' journal club (Tuesday noon to 1:30PM). Residents will be expected to have read the articles assigned by the attending (medical knowledge, PBL).

7. Fellow's Core Conference
Students and Residents are expected to attend the weekly Core Conferences (Thursday noon to 1:30) where a didactic lecture will be given by a fellow or attending related to an important topic in pediatric endocrinology. We recognize the potential conflict with the Core
lecture series of the Residency Program, so the decision on which lecture to attend will
depend on the lecture topic and the interests of the resident.

8. Student Pediatric Endocrine Presentation
The last Thursday of the rotation, students are expected to present a 30 minute review of a
topic which was of interest during the rotation. The presentation should include a short
literature review of the topic (PBL, medical knowledge).

9. Endocrine Testing
Early in the rotation, residents should acquire a familiarity with provocative hormone testing
by observing/assisting with a test. These are usually scheduled for Monday and Friday
mornings during Endocrine Clinic (PBL, patient skills, medical knowledge).

10. On Call
Residents/Students will be expected to be on call an average of every fourth night during the
rotation. Call will be from home. Residents will not directly get phone calls from patients or
physicians. These will go to the fellow/attending on call. Residents/students will be notified if
the fellow/attending has to go to the ER/hospital and will be expected to meet the
fellow/attending and participate in the evaluation and treatment of the patient. If the resident
is sleep deprived from having had to come to the hospital, she/he should notify the attending
by 8 AM so they can be relieved of their duties for the day.

Students will be evaluated by all pediatric endocrine attendings with whom they have had
contact and with the Division nurses/nutritionists with whom they have worked.

C. Weekly Schedule
These are guidelines and flexibility is possible within the schedule
Monday
 o 7:30 AM In-patient rounds
 o 8:00 AM Endocrine clinic
 o Noon 1st and 3rd Monday Endocrine conference for in-patient resident team (44
   conference room)
 o 1:00 PM Diabetes clinic
Tuesday
 o 8:00 AM M morning report followed by in-patient rounds
8:30 AM Laboratory follow-up/inpatient rounds
 o 12:00 Journal Club (once per month)
 o 1:00 PM Obesity/lipid clinic
 o 1:00 PM (1st & 3d Tues) diabetes clinic
Wednesday
 o 8:00 AM Diabetes clinic
 o 1:00 PM Diabetes clinic- every other week
Thursday
 o 8:00 AM Morning report
o 8:30 AM In-patient rounds
o 10:00 AM Teaching conference
o 12 noon Core conference

Friday
o 7:30 AM inpatient rounds
o 8:00 AM Grand Rounds
o 9:00 AM endocrine clinic

Outreach clinic: Daytona Beach by telemedicine every other week, with annual visit for 2 days

We welcome you to our Department and hope to make this a fun and instructive month for you. Please feel free to approach any of us with questions, concerns or suggestions.

Course Faculty and Staff

- Cynthia Powell (Course Staff)
- Elizabeth Fudge MD (Director)

Meeting Place and Time

Pediatric Subspecialty Clinic at Medical Plaza, 0830 or Pediatric morning report at 0800. Email Dr. Silverstein 1 week before your rotation to determine where to meet. silvejh@peds.ufl.edu

Course Materials

1. Core curriculum presentations and associated key articles are available online
   <Y:\USERS\ENDO\Pediatric Endocrine Core Lectures>

2. Textbooks in pediatric endocrinology are available in faculty offices and you will be provided a pediatric endocrinology review book to use during the rotation

Additional Information

Students on endocrinology/diabetes during the months of June, July and August will participate in one to two weeks at Florida's Camp for Children and Youth With Diabetes, where they have a unique opportunity to appreciate the full range of the challenge of living with diabetes in a non-clinical setting.

Students participating during October and March may attend weekends for teens (October) and families of children with diabetes (March).

Family Medicine Inpatient Elective

CM E 1 | 4th Year Elective | Community Health and Family Medicine | Clinical Science
**Prerequisites**

Fourth Year Medical Student - UF medical students, must have completed a senior student Sub-I prior to participating in this elective.

Student must have prior approval for the period in which they would like to rotate through this elective. Please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main for approval.

**Course Description**

COURSE PREREQUISITES: Fourth Year Medical Student

COURSE GOALS:

**Course Faculty and Staff**

- Kimberly K Zinkel (Course Staff)
- Tina Engstrom (Course Staff)
- Karen L. Hall MD (Director)

**Meeting Place and Time**

Prior to beginning the rotation, please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main, to get the time and location as well as the name of the Senior Resident when beginning rotation.

**Course Materials**

No special equipment.

**Additional Information**

Student must have prior approval for the period in which they would like to rotate through this elective. Please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main for approval.

---

**Flexible Psychiatry**

PSY E 2 | 4th Year Elective | Psychiatry | Clinical Science

**Prerequisites**

Satisfactory completion of third year clerkship in Psychiatry. Note, students from outside UF COM must get prior approval from Course Director.

**Course Description**
Senior medical students wishing to receive additional training in a setting that does not meet the parameters described under other 4th year Psychiatry Elective offerings may chose this course. Examples include experience on the inpatient adult psychiatry services at Vista (including the Florida Recovery Center), the VA medical center inpatient and consultation services, the outpatient facility in Vero Beach, Jacksonville community psychiatry services, and others. It is preferable for students to complete all 4 weeks in the same location. In the spring months students may elect to serve as a teaching assistant in the Human Behavior Course (small groups, etc.).

**Course Faculty and Staff**

- Jacqueline Hobbs MD, PhD (Co-Director)
- Robert N Averbuch MD (Director)
- Terry Lemesh (Course Staff)

**Meeting Place and Time**

To be arranged depending on the specific site/experience chosen. Please contact Terry Lemesh tjlemesh@ufl.edu or 352-265-0111 X85724 Students must make arrangements with Dr. Averbuch or Dr. Hobbs about the specifics of their experience/rotation.

**Course Materials**

Vary depending on the experience chosen.

**Additional Information**

Please note, those wishing to complete any portion of this elective with a Child/Adolescent Psychiatry experience and/or Consult/Emergency Psychiatry rotation should contact Dr. Nguyen and register for the Child and Adolescent Psychiatry Elective instead.

---

**Forensic Psychiatry**

**PSY E 6 | 4th Year Elective | Psychiatry | Clinical Science**

**Course Description**

Forensic psychiatry is a medical subspecialty that includes research and clinical practice in the many areas in which psychiatry is applied to legal issues. While some forensic psychiatrists may specialize exclusively in legal issues, almost all physicians may, at some point, have to work within one of the many areas in which the medical system and legal system overlap. Students will be exposed to various legal issues during their rotation. These may include:

- Criminal responsibility
- Competence, civil and criminal
The student will have the opportunity to work closely with a team of physicians as they perform evaluations and prepare a case for trial. Depending on court scheduling, students may have the opportunity to accompany the physicians as they give expert testimony in actual depositions and trials.

COURSE GOALS:
1. Understand basic principles of interaction between psychiatry and the law.
2. Appreciate how psychopathology affects one’s legal status in a number of issues.
3. Attend civil and criminal depositions and trials with Dr. Werner and other forensic faculty.

Course Faculty and Staff

- Tonia L Werner (Director)
- Tina Hall (Course Staff)
- Brian Cooke MD (Other Faculty)
- Terry Lemesh (Course Staff)
- Almary Ginory DO (Other Faculty)

Meeting Place and Time

9:00 a.m. - 5:00 p.m. Monday through Friday - Rotations and assignments can be flexible. Students will attend evaluations, seminars and some correctional rotations with Forensic Residents.

Course Materials

Forensic Psychiatry residency seminar materials, seminars, patients at Lowell Correctional Institution and Reception Medical Center

Additional Information

For more information please contact Tina Hall at 352-265-3284 or tinahall@ufl.edu

General Surgery and Organ Transplantation (Surgery IV)

SUR E 3 | 4th Year Elective | Surgery | Clinical Science

Course Description

COURSE GOALS: Introduction to scientific principles and clinical measures of dealing with general surgical problems with special focus on surgical diseases of the liver and bile ducts. The service focuses mainly on surgery of the liver and neoplasms of the pancreas and on
liver, kidney and pancreas transplantation. It is our intent that the students occupy a position of responsibility commensurate with their ability. They will participate in patient evaluations in the clinics, patient care on the surgical wards, in the operating room, and post-operative care on the wards and in the clinic. They will also be expected to come to conferences during the week.

**Course Faculty and Staff**

- Michele Silver (Course Staff)
- Joseph Magliocca MD (Director)
- Brittany Fink (Course Staff)

**Meeting Place and Time**

Surgery floor (Ward 95), 7:00am daily.

**Course Materials**

Textbooks and selective journal publications.

**Additional Information**

There is also an opportunity to participate in clinical research that is ongoing in the division.

**Hyperbaric Oxygen Medicine**

**CM E 42 | 4th Year Elective | Community Health and Family Medicine | Clinical Science**

**Prerequisites**

4th year UF COM student

**Course Description**

The student will work one to one with the Hyperbaric Medicine Attending, Monday through Friday, 8 am to 5 pm. There is no call. The student will evaluate patients for appropriateness for Hyperbaric Oxygen therapy, including history, physical exam, evaluation of prior medical records, and indications. The student will also learn the physics, physiology and evidence explaining and supporting use of hyperbaric oxgeyn. The student may choose between writing a case-presentation paper of a patient seen during the month, or may design a study that would address an appropriate question in hyperbaric medicine. The student will become knowledgeable about the resources available to physicians who practice hyperbaric oxygen medicine.

**Course Faculty and Staff**

- Shenary Cotter MD (Co-Director)
• David Selman MD (Co-Director)

**Meeting Place and Time**
Shands Hyperbaric Suite

**Course Materials**
provided

**Infectious Diseases**
MED E 9 | 4th Year Elective | Internal Medicine | Clinical Science

**Prerequisites**
4th Year Medical Student

**Course Description**
Students will participate on the inpatient consultation service to provide first hand patient contact and apply their knowledge. (They will be allowed to leave by 5PM and have no weekend call). There will be a weekly ID lecture as well as weekly patient management conference where challenging infectious disease cases will be discussed.

**Course Faculty and Staff**
• Christie Little (Course Staff)
• Shehla Islam MD (Director)

**Meeting Place and Time**
Academic Research Building,
Rm. R2-124, 8:30am (first day).
Office: 352-294-5481

**Course Materials**
There is no required course material for this elective.

**Additional Information**
"Infectious Diseases in 30 days", McGraw-Hill written by our faculty member, Dr. Frederick Southwick can be purchased in the UF Bookstore.

**Internal Medicine Consult Service**
MED E 24 | 4th Year Elective | Internal Medicine | Clinical Science
Prerequisites
Successful completion of the Internal Medicine MS-3 Clerkship

Course Description

COURSE GOALS:
Learn how to perform effective, evidence-based internal medicine consultation.

Gain practical experience in the evaluation and management of a variety of common medical problems such as: anemia, Leukocytosis, thrombocytopenia, fever, dyspnea, chest pain, edema, electrolyte imbalances, oliguria, abdominal pain, delirium, and jaundice.

Learn how to perform a preoperative medical evaluation in surgical patients.

Learn how to communicate effectively and establish professional relationships as a consultant with patients, families, nursing staff and medical colleagues from non-internal medicine services.

Recognize appropriate indications and assist with transfer of patients to appropriate internal medicine inpatient services when warranted.

Course Faculty and Staff

- Eric I Rosenberg MD, MSPH (Director)
- Jenika Christmas (Course Staff)

Meeting Place and Time

Monday-Friday; 8:00 am - 5:00 pm
Internal Medicine Division Office and Shands Medical/Surgical Units
Call 352-265-0651 for specific details.

Course Materials

Internal Medicine Consultation website:
http://internal.medicine.ufl.edu/education/internalmedicineconsultservice/
This contains course syllabus, all required readings and reference materials

Intro. to Radiation Oncology

RON E 1 | 4th Year Elective | Radiation Oncology | Clinical Science

Prerequisites
The student should have completed most, if not all, of their third year clinical rotations.
Course Description

COURSE GOALS: The principle objective of this course is to provide the student with an intimate exposure to the examination, diagnosis and treatment of the cancer patient. Emphasis is placed on methods of physical diagnosis and include detailed instruction in head and neck examination techniques, diagnostic maneuvers in gynecological examination and workup of patients with lymphoreticular malignancies. In general, the program is structured to allow the student to concentrate his/her effort in areas that compliment career plans. This course is a tremendous opportunity for a medical student to evaluate and examine a large number and variety of cancer patients. Any student who is interested in a specialty which will interact with radiation oncologists is encouraged to use this opportunity to learn about the specialty. Approximately 250 cancer patients are seen each week in the department. The University of Florida Proton Therapy Institute in Jacksonville, FL is an excellent opportunity for the student to learn about Proton therapy. This is an off-site clinic-an extension of the U.F. Gainesville Rad/Onc clinic.

Course Faculty and Staff

- Robert J Amdur MD (Director)
- Shana Nelson (Course Staff)

Meeting Place and Time

Shands Cancer Center - Department of Radiation Oncology, Robert J. Amdur, M.D., Chairman & Program Director; Virginia Boone, Residency Program Coordinator

Course Materials

Instruction takes place via daily new patients consultations, follow up clinics, treatment simulations, tumor conferences, implant procedures, individual faculty discussion sessions and departmental teaching conferences. Individual research projects are available and optional.

Additional Information

The University of Florida Proton Therapy Institute (UFPTI) is located in Jacksonville, FL, the student will be responsible for their own transportation & lodging if they need to stay overnight.

Introduction to EMS, Prehospital Care and Shands Cair

EMD E 2 | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites

Satisfactory completion of third year curriculum.
Course Description

COURSE GOALS: At the end of this rotation, the student will:
1. Gain an appreciation for the role of prehospital care in the management of the critically ill or injured patient.
2. Be able to assess the appropriateness of a patient for transport by ground or air.
3. Understand, through active participation in prehospital care operations, the unique challenges of packaging, monitoring, and performing patient care in the prehospital environment.
4. Know how to access emergency medical service systems and explain dispatch principles used by these systems.
5. Gain an appreciation of the needs for prehospital education, quality assurance and research.
6. Understand integrated trauma management.

During these four weeks, you will be exposed to all aspects of emergency medical services (EMS). Your experience will include flying with Shands Cair (October through May Only - must not be taller than 6’2” and under 200 lbs.), riding on paramedic units, participating in quality assurance activities, paramedic education, and prehospital protocol assessment. You will discover the satisfaction which comes in assisting in the out-of-hospital management of the critically ill or injured patient and in knowing that your efforts can benefit the health of a community, not just an individual.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Christine VanDillen MD (Director)

Meeting Place and Time

By arrangement with course sponsor.

Course Materials

Handouts and training materials are provided by the course sponsor and sponsoring agencies. Prehospital patients come from all sections of the county and all segments of society, and will be seen in the field as students ride with paramedics. The only common thread binding these patients is their need for assistance.

Additional Information

NOTE - This course will be offered only by specific arrangement with course director/co-director.

Maternal-Fetal Medicine
Prerequisites
During the first three rotations of the year, this course is only open to senior students from the University of Florida College of Medicine. Thereafter, it is open to senior students from any LCME-accredited university in the United States.

Course Description
The objectives of this course are as follows:

To diagnose and treat medical complications of pregnancy.

To perform and interpret a basic screening ultrasound examination.

To apply prenatal diagnosis tests such as serum analyte screening, CVS, amniocentesis, and cordocentesis.

To develop skills in interpreting antepartum fetal assessment tests such as the NST, CST, biophysical profile, and doppler velocimetry.

To critically discuss major subject areas in perinatal medicine, such as cesarean delivery, diabetes in pregnancy, isoimmunization, prenatal diagnosis, and infections in pregnancy.

To learn the names and uses of common surgical instruments.

To learn the indications for use of different suture materials.

Course Faculty and Staff

- Patrick Duff MD (Director)

Meeting Place and Time
Students should report to the Barron Conference Room at 7:00 AM on the first Monday of the rotation.

Course Materials
Reading assignments will be distributed prior to the start of the elective.

Additional Information
Students will be evaluated on the basis of their clinical performance in the High Risk Obstetrics Clinic, Prenatal Diagnosis Clinic, Labor and Delivery Suite, and in the special tutorials with the course director. There are no night-time or weekend assignments.

McKnight Brain Institute Research
PSY E 14 | 4th Year Elective | Psychiatry | Clinical Science

**Prerequisites**

4th year medical student

**Course Description**

This elective will improve the student's understanding about the neuronal substrates that compromise the brain reward system. In addition, the student will have insight in the role of brain stress systems in drug withdrawal. If the IACUC requirements are met, the student can participate in rodent experiments. In our laboratory, we investigate the brain areas that mediate the negative affective state of drug withdrawal. The main models that are used are rodent intra-cranial self-stimulation and rodent drug self-administration. Current research focuses on nicotine and opioid dependence.

**Course Faculty and Staff**

- Mark S Gold MD (Co-Director)
- Adrie Bruijnzeel PhD (Co-Director)
- Robert N Averbuch MD (Other Faculty)
- Terry Lemesh (Course Staff)

**Meeting Place and Time**

TBA

**Course Materials**

Study material will be provided at the beginning of the course by one of the course directors

**Additional Information**

For more information please contact Mary Beth Titsworth at 392-1515 or mbt@ufl.edu

Medical Student Clerkship in Emergency Critical Care

EMD E 5 | 4th Year Elective | Emergency Medicine | Clinical Science

**Prerequisites**

BCC 7180 Required Emergency Medicine clerkship; for externs, one month of Emergency Department

**Course Description**

The purpose of this course is to introduce senior Medical Student with career goals in Emergency and or Critical Care Medicine to gain significant exposure, education and
experience, in Emergency Critical Care; specifically the acute assessment, and management of medical, traumatic and pediatric resuscitations. Students will be scheduled to work shifts in the Resuscitation area of the Shands UF Emergency Department and will work closely with faculty, residents and fellows in the management of the highest acuity cases that present to the ED. Students are expected to become integrated into the care team. Students will also spend significant time in the department's simulation lab learning and perfecting critical care procedures and resuscitation skills.

Course Goals: This course is designed for the MS4 who has completed the EM requirement and has a career interest in EM. This course will provide a focused experience in Emergency Critical Care including airway management, and care of Trauma, Sepsis, Respiratory failure, Acute MI's, Strokes and other acute severely ill patients. The student will be paired with an EM resident or Critical Care fellow during shifts and be active participant in the care team in the Resuscitation module of the ED.

Course Objectives: Demonstrate the ability to rapidly assess the critically ill and injured. Obtain an AMPLE history, and perform a focused problem based examination. Demonstrate ability to perform ACLS algorithms for V-fib arrest, stable and unstable V-tach and tachyarrhythmias, and bradycardia. Demonstrate the ability to read ECG and interpret then above arrhythmias. Demonstrate ability to manage respiratory distress including BiPAP, intubation, and ventilator management. Demonstrate ability to interpret ABG. Demonstrate the ability to calculate ISS score. Demonstrate the ability to calculate APACHE II score. Demonstrate the ability to perform follow up on patients resuscitated in the ED.

Teaching Methods: Assigned readings, Direct patient care, Simulation, On-line lectures and procedural video demonstrations.

Feedback: Directly from Residents, fellows and faculty during shifts. Mid-clerkship review sessions with clerkship director, program director or EM CCM faculty.

Student Portfolio: Procedure log, APACHE II and ISS scores of patients seen during shifts, Case log, Simulation performance evaluations.

Evaluation: Clinical evaluations by supervising resident, fellow and faculty; Simulation performance, End of clerkship written exam.

Competencies:
Objectives: ACGME competencies covered by each objective:
PC=Patient care, PL=Practice Based Learning, MK=Medical Knowledge, IC= Interpersonal Communication, Pr= Professionalism, SP= System Based Practice
Assessment & Treatment:
1. Demonstrate ability to rapidly perform history and physical exams in critically ill patients. (1) (PC)[DO]
2. Describe the dosages, indications and contraindications of pharmacologic interventions for shock, cardiac failure, dysrhythmias, sepsis, trauma, toxins, respiratory failure, hepatic failure, renal failure, and neurologic illnesses. (1) (PC)[DO, Vsim]
3. Demonstrate appropriate prioritization of diagnostic and therapeutic interventions in critically patients. (1) (PC, MK)[DO, Vsim]
4. Demonstrate an understanding of the appropriate use of consultants in critically ill patients. (1) (PC, MK, IC, Pr, )[DO]
5. Demonstrate an understanding of the ethical and legal principles applicable to the care of critically ill patients. (1) (PC, PL, MK, IC, Pr,)[DO, CE]
6. Demonstrate the ability to notify family of patient’s death in professional and compassionate way. (1) (PC, Pr,IC) [DO]
7. Understand the pathophysiology of hypertensive emergencies including acute pulmonary edema, acute renal failure, stroke and encephalopathy. (1) (PC, MK, IC, ) [CE, DO]
8. Understand the typical evaluation for acute mental status depression including indications for intubation. (1) (PC, MK) [CE, DO]
9. Discuss differential diagnosis of acute mental status changes. (1) (PC, MK) [DO]
10. Know and be able to discuss all toxidromes for which a specific antidotes exists or which can be treated with hemodialysis. (1) (PC, MK) [CE, DO]
11. Demonstrate understanding of "Do not resuscitate" orders, advance directives, living wills and brain death criteria. (1) (PC, PL, MK, IC, Pr, SP) [CE, OD]
12. Demonstrate thorough knowledge of antibiotic selection in critically ill patients. (1) (PC, MK) [DO, CE]

Trauma:
1. Demonstrate the ability to perform the following procedures: oral endotracheal intubation, nasotracheal intubation, cricothyrotomy, tube thoracostomy. (1) (PC, MK) [DO, VP, Vsim]
2. Understand the appropriate evaluation and resuscitation for geriatric trauma patients with multiple injuries. (1) (PC, MK, IC,) [DO, CE, ]
3. Understand the different diagnostic and treatment variations in penetrating vs. blunt trauma. (1) (PC, MK) [CE, Vsim]
4. Understand the management of major trauma as outlined in ATLS. (1) (PC, MK) [CE, DO, Vsim]

Cardiac:
1. Demonstrate the ability to perform the following procedures: Transvenous cardiac pacing, External Cardiac Pacing. (1) (PC, MK) [CE, DO, Vsim]
2. Demonstrate knowledge of the various etiologies of cardiac arrest and the corresponding
therapeutic approaches. (1) (PC, MK) [CE, DO]

3. Demonstrate knowledge of the factors affecting blood flow, oxygen delivery and oxygen consumption in shock and cardiac arrest. (1) (PC, MK) [CE, DO, Vsim]

4. Demonstrate ability to recognize dysrhythmias associated with cardiac arrest and knowledge of ACLS protocols for their treatment. (1) (PC, MK) [CE, DO, Vsim]

5. Understand the dosages, indications and contraindications for pharmacologic therapy during cardiac arrest and following resuscitation. (1) (MK, PC) [CE, DO, Vsim]

6. Demonstrate the ability to interpret pressure waveforms from CVP, RA, RV, PA and PCWP. (1) (PC, IC, MK) [CE, DO]

7. Understand the sensitivity and specificity of ancillary studies for life threatening chest pain presentations including EKG, chest x-ray, cardiac enzymes, and arterial blood gases. (1) (PC, MK) [CE, DO]

8. Discuss the proper management of and therapeutic options for STEMI. (1) (PC, MK) [CE, DO]

9. Demonstrate ability to safely perform internal and external defibrillation. (1) (PC, PL, MK, IC) [CE, DO, Vsim]

10. Describe the clinical findings of cardiogenic shock and outline therapy for cardiogenic shock. (1) (PC, MK) [CE, DO]

Resuscitation:

1. Demonstrate understanding of the Fick equation and its application in monitoring shock states. (1) (PC, MK) [CE, DO]

3. Demonstrate ability to diagnose and treat shock, sepsis, fluid and electrolyte abnormalities, cardiac failure, cardiac dysrhythmias, acute renal failure, and toxicologic emergencies. (1) (PC, MK) [CE, DO, Vsim]

Severe Sepsis:

Demonstrate the ability to perform the following procedures: Central Venous Line, Subclavian or Internal Jugular (1) (PC, MK) [PC, MK]

Demonstrate knowledge of and ability to perform Early Goal Directed Resuscitations in severe sepsis (1) (PC, MK, PL, SBP)[CE, DO, Vsim]

Neurologic:

1. Differentiate between ischemic and hemorrhagic Stroke. (1) (PC, MK) [CE, DO]

2. Demonstrate knowledge of current recommendation for the treatment of acute ischemic Stroke, Hemorrhagic Stroke,(1) (PC, MK) [CE, DO]

3. Demonstrate ability to calculate NIH stroke score. (PC, MK, IC, SBP) [CE, DO]

4. Discuss the rationale for deciding which patients should or should not receive fibrinolytic therapy including timing, imaging, clinical course and risk-benefit analysis. (PC, MK, SBP, Pr) [CE, DO]

5. Demonstrate ability to provide patient & family with information in understandable format to permit informed consent on the decision to institute or withhold thrombolytic therapy. (1) (MK, PC, IC) [CE, DO]
Critical Care Monitoring:
1. Demonstrate the ability to perform the following procedures: Arterial line placement, central intravenous catheter placement, CV pressure monitoring of volume resuscitation. (1) (PC, MK, SBP) [DO, Vsim]
2. Demonstrate the ability to use and interpret data from ECG monitors, ECG’s, Central venous pressure monitors and other hemodynamic monitoring, arterial and central venous blood gases, pulse-oximetry, end tidal CO2 monitors and ventilators. (1) (PC, MK, IC) [CE, DO]
3. Understand current modalities of non-invasive hemodynamic monitoring including US, pulse contour and impedance cardiography. (1) (PC, MK) [CE, DO]
4. Demonstrate the ability to safely perform procedural sedation for emergent procedures, including use of narcotics, benzodiazepines, and hypnotics. (PC, MK,) [CE, DO]

Advanced Airway Management
1. Demonstrate at least 3 methods of definitive airway control when standard oral tracheal intubation fails. (1)(PC, MK) [DO,VP, Vsim]
2. Develop a written personal difficult airway algorithm on pocket card. (1)(PC, MK) [DO,VP, Vsim]
3. Be able to recite their personal difficult airway algorithm. (1)(PC, MK) [DO]
4. Demonstrate their ability to perform each procedure involved in their personal difficult airway algorithm. (1)(PC, MK) [DO,VP]
5. Demonstrate their ability to use the personal difficult airway algorithm in case scenario (1)(PC, MK) [DO, Vsim]
6. Demonstrate ability to write ventilator orders (1) (PC, MK) [DO, Vsim]
7. Demonstrate the ability to manage a patient on a ventilator and non-invasive respiratory support (CPAP BiPAP). (1) (PC, MK)[DO]
8. Demonstrate ability to manage the airway during cardiac arrest, including mouth-to-mask ventilation, bag-valve-mask ventilation, endotracheal intubation, cricothyroidotomy, and recognition of the obstructed airway. (1) (PC, MK)[DO, VP]
9. Demonstrate ability to perform nasopharyngeal and bronchoscopy. (1) (PC, PL, MK, IC, Pr, SP) [DO,VP]
10. Demonstrate ability to wean patient from ventilatory support. (1) (PC, MK) [CE,DO]

Course Faculty and Staff

- **Kevin L Ferguson MD** (Co-Director)
- **Bobby Desai MD** (Co-Director)
- **Beth Magyari** (Course Staff)

Meeting Place and Time

Shifts will be scheduled in the Shock-Trauma unit of the Emergency Department.

Course Materials
**Minimally Invasive Surgery and Gastro Esophageal Surgery**

SUR E 19 | 4th Year Elective | Surgery | Clinical Science

**Prerequisites**

4th year student

**Course Description**

Clinical rotation on the Minimally Invasive Surgery Service

**Course Faculty and Staff**

- Michele Silver (Course Staff)
- Kfir Ben-David MD (Director)
- Brittany Fink (Course Staff)

**Meeting Place and Time**

TBA

**Course Materials**

Provided during course

---

**Neonatology Elective**

PED E 3 | 4th Year Elective | Pediatrics | Clinical Science

**Prerequisites**

Grade of "B" or better in Pediatric Clerkship.

**Course Description**

COURSE GOALS: This course will provide an introduction to newborn intensive care that will include, but not be limited to:

1. An organized approach to the total care of complex, sick newborn patients.
2. An understanding of common neonatal respiratory disorders.
3. An understanding of neonatal fluid, electrolyte and nutritional support.
5. Neonatal invasive procedures.
6. Ethical issues in neonatal medicine.
Course Faculty and Staff

- David J Burchfield MD (Director)
- Cynthia Powell (Course Staff)

Meeting Place and Time

NICU, 7:30am.

Course Materials

Recommended: Avery's Neonatology, Pathophysiology, and Management of the Newborn.

Additional Information

In-house call every 4th night alongside the senior pediatric resident (will follow the 80-hour rule as established in the Department of Pediatrics).

Nephrology: Clinical Consult Service

MED E 1 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

4th year medical students

Course Description

This course will provide:
1. In-depth analysis and comprehensive teaching of fluid and electrolyte, and acid-based disorders
2. Daily teaching by Division of Nephrology fellows and faculty
3. Practical experience in the evaluation and treatment of inpatients with acute and chronic renal failure, hypertension, proteinuria and the nephrotic syndrome, fluid and electrolyte disturbances, and renal parenchymal disease
4. Inpatient management of patients requiring acute or chronic hemodialysis, hemofiltration, acute peritoneal dialysis, and continuous ambulatory peritoneal dialysis
5. The opportunity to observe and assist with invasive procedures, including percutaneous renal biopsy and internal jubular and femoral catheter placement
6. Outpatient experience in the management of patients with all forms of hypertension, chronic renal failure, fluid and electrolyte disturbances, systemic diseases with renal involvement, and the nephrotic syndrome

Course Faculty and Staff

- Mark S Segal MD (Director)
Meeting Place and Time

Students should report to the Nephrology Office; CG-98; 9:30 AM on first day of rotation. No need to contact the Course Director before first day of rotation.

Course Materials

Handout and text book will be provided.

Neurosurgery Elective

NSU E 1 | 4th Year Elective | Neurosurgery | Clinical Science

Prerequisites

Fourth year student.

Course Description

During the four week rotation, students will function as an integral part of the faculty led team caring for patients on the neurosurgery service at Shands Hospital at UF and the Malcolm Randall VA Medical Center. Students will be given a weekly schedule, including call days.

Rotating students are expected to demonstrate an enthusiasm for their work and an active interest in learning the nuances of advanced neurosurgical care. Students will round each morning with the resident and attending teams, and will then be encouraged to spend time in the operating room. Students will be expected to learn about neurosurgical conditions, their diagnosis, and treatment. Students will spend the majority of their time in the operating room participating in a wide breadth of neurosurgical operations. Students will also assist the junior and senior residents in direct patient care, in the neuro-intensive care unit and the neurosurgical floor. Students will spend at least two days in outpatient clinic during their time on the service. Opportunity will also be given to spend time in subspecialty areas and clinics, such as endovascular neurosurgery and stereotactic radiosurgery.

Students will attend the department's daily teaching conference. Weekly lunches will be scheduled with the rotating student and selected Faculty. During these lunches didactic topics will be covered, as well as general mentoring regarding career development in Neurosurgery. Students will also be encouraged to participate in departmental functions and social activities on an ad hoc basis.

Course Faculty and Staff

- Gregory Murad MD (Director)
- Karen Ehlers (Course Staff)

Meeting Place and Time
Daily @ 7:00 a.m. in Neurosurgery Conference Room, L2-101 (2nd Floor of the UF Brain Institute)

**Course Materials**

1. A course booklet including material covered in the tutorial series will be provided.

**Additional Information**

**COURSE GOALS AND OBJECTIVES**

1. General Skills
   (a) Clinical examination - To perform a competent neurological evaluation including relevant history and neurological examination.
   (b) Radiology - To understand the fundamentals of x-ray and computerized (CT, MRI) imaging of the spine and head, including normal and common pathological entities.
   (c) Emergent management - To understand the clinical manifestations of acute and chronic intracranial hypertension, as well as other neurosurgical emergencies (infection, spinal cord compression, trauma, etc.) and principles of emergency management.

2. Intracranial Disease
   (a) Head injury - To recognize the spectrum of mild, moderate and severe head injury and to diagnose and initiate its management.
   (b) Brain tumors - To understand the broad categories, presenting symptoms and management principles of brain tumors, including indications for surgical intervention and adjuvant therapies.
   (c) Cerebrovascular disease - To differentiate common headache syndromes with emphasis on recognition, diagnosis and management of subarachnoid hemorrhage. To recognize presenting symptoms and signs of occlusive cerebrovascular disease, and general diagnostic and treatment strategies including indication for carotid surgery.

3. Spinal Disease
   (a) Spinal trauma - To diagnose and initiate acute management of spine fracture, dislocation and spinal cord injury.
   (b) Degenerative disease - To evaluate and initiate management of spinal degenerative disc and spondylotic disease, and to recognize neural compression syndromes and indications for surgical intervention.

4. Hydrocephalus.
   (a) To identify signs and symptoms of hydrocephalus and know the management options in children and adults.

5. Peripheral Nerve Disease
   (a) To diagnose and initiate the management of peripheral nerve injury and common nerve entrapment syndromes.
ACHIEVING THE GOALS AND OBJECTIVES

1. Clinical service
The neurosurgery service at Shands Hospital UF is divided into multiple services consisting of faculty, a senior resident, a junior resident and, on some services, an intern. Medical students will have the opportunity to work with all services over the 4 week rotation. The student will rotate through the services and will come under the direct mentorship of the senior resident for each service. The services are generally divided by subspecialty area, and allow a student to focus on one subset of neurosurgical disease, although all services also care for general neurosurgical patients.

During the rotation students may be assigned patients by the mentoring senior resident (usually 2 patients per week). The student is responsible for presenting these patients on morning rounds and is expected to complete all floor duties related to those patients including writing orders/daily notes etc. It is expected that the student is in communication with the resident members of his or her team throughout the day to be sure that all tasks related to the service are completed.

2. Daily Departmental Conferences
Neurosurgical conferences are held daily, Monday through Friday, from 7:00am to 8:00 am.
a) A review of the TTP cases is held the 2nd and 4th Monday morning (L2-101).
b) Preoperative conference is held every Tuesday morning (L2-101). Cranial and spinal cases are emphasized in alternating weeks.
c) Grand Rounds conference is held every Wednesday morning (L2-101) and involves a topic review.
d) Journal Club is (L2-101) held monthly. The student will be provided with an article to critique and present.
e) Neuropathology/Neuroradiology conference is held the third Friday morning of each month (L2-101) and involves case presentations by the attending neuropathologist and the attending neuroradiologist.
f) Brain tumor board is held every Tuesday afternoon at 4:00 pm (L2-101) and involves a multidisciplinary discussion of all brain tumors operated the previous week.
g) Epilepsy conference is held every Wednesday morning at 8:30 am (LG 116) and involves a detailed review of the preoperative data on epilepsy patients.

3. Tutorials
4. Neurosurgery Clinics
Students are expected to attend clinic on at least one Thursday at Shands, and one Tuesday at the VA. At this clinic the student will be assigned patients to interview, examine and present. Students are also invited to participate in any of the clinics listed on the timetable. During the final week of the rotation the student may be asked to interview a new patient for
45 minutes. The student will be assessed on clinical history and physical examination performance.

5. Emergency call
To obtain exposure to acute neurosurgical conditions it is expected that the student takes call on the same schedule as their senior resident mentor.

6. Operating room experience
Operating room attendance is encouraged and guidance as to which surgeries to attend should be obtained from the senior resident. All surgeries concerning patients for whom the student is responsible should be attended. Level of participation in the surgery is up to the attending present but where possible the student should be scrubbed in.

7. Oral presentation skills: The student is expected to perform a 15-minute presentation at morning conference in the final week of the 4 week rotation. This presentation may be about any neurosurgical or neuroscience topic. This is an opportunity for students to present research that they may be working on during or prior to medical school. Other options include interesting case reports or brief topic reviews. Faculty from the department are available to help in preparing this presentation.

Non-surgical Orthopaedics and Sports Medicine
ORTH E 4 | 4th Year Elective | Orthopaedics | Clinical Science

Prerequisites
Satisfactory completion of third-year clerkships

Course Description
COURSE GOALS: To increase the student's knowledge of assessment and management techniques for outpatient musculoskeletal and sports medicine injuries. Student's will rotate in orthopaedics clinics including the UF Runner's Clinic. Students will also have the opportunity to observe testing conducted on athletes in the UF Sports Performance Center. This course will emphasize appropriate history-taking, physical examination, radiologic testing, and treatment for patients with a variety of musculoskeletal problems and demonstrate the different approaches of surgical and non-surgical Sports Medicine specialists. This course is recommended for all students interested in treating musculoskeletal and sports injuries whether they are considering a career as a primary care physician or specialist.

Course Faculty and Staff
- Kevin R. Vincent MD, PhD (Director)
- MaryEllen Paulk (Course Staff)
Meeting Place and Time
Second Floor of the Orthopaedic and Sports Medicine Institute on Hull Road, Monday - Friday 7:45 a.m. - 5:00 p.m.

Course Materials
Selected readings will be suggested by attending physicians regarding commonly treated Musculoskeletal and Sports Medicine Injuries.

Obstetric Anesthesia
ANS E 4 | 4th Year Elective | Anesthesiology | Clinical Science

Prerequisites
Often taken consecutive with Life Support Skills & Perioperative Medicine

Course Description
This course will provide:
1. clinical experience with spinal blocks for labor analgesia and operative procedures in the obstetric patient.
2. education in daily obstetrical anesthesia rounds (8-9am).
3. opportunity to deliver an oral presentation on a topic of the student's choice.

Course Faculty and Staff
- Adam L. Wendling MD (Director)
- Colleen A. Kearney (Course Staff)

Meeting Place and Time
Labor and Delivery, 3rd Floor, 0730-1700 weekdays; should report to anesthesia dept conference at 0630 in 2147

Course Materials
Recommended Textbook: Essential Anesthesia by Euliano & Gravenstein
You will receive a book chapter from Clinical Anesthesia Practice as well.
Patients will be seen in the Labor & Delivery Suite of Shands

Additional Information
The intent of this clerkship is to give the student interested in anesthesiology or OB/Gyn an understanding of OB Anesthesia.
The clerkship can be taken for only 2-weeks.
Otolaryngology - Surgical Elective

OTOL E 1 | 4th Year Elective | Otolaryngology | Clinical Science

Prerequisites

None

Course Description

NA

Course Faculty and Staff

- Neil Chheda MD (Director)
- Nicolle Rutledge (Course Staff)

Meeting Place and Time

First day of rotation; ENT Office; M2-228. Nicolle will give you a schedule and needed materials.

Course Materials

Ear; Nose; and Throat Diseases; a Pocket Reference; by W. Becker; HH Naumann; & CR Pfaltz

Additional Information

Must return any and all materials borrowed during your rotation the last Friday.

4 week elective designed for students interested in pursuing otolaryngology as a career.

Pain and Addiction

PSY E 10 | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites

None

Course Description

COURSE GOALS: This course will provide:

1. An introduction to pain as a public health problem including the epidemiology, social consequences, economic impact and medicolegal and compensation issues

2. An understanding of the definition of pain that involves both physiological and psychological aspects
3. A review of neuroanatomy and neurophysiology as it applies to the daily pain problems seen in the clinic

4. A review of the pharmacology of local anesthetics, analgesic drugs (both opioid and non-opioid), and adjunctive medications (antidepressants, anticonvulsants, etc.)

5. An introduction to the evaluation of patients presenting with pain syndromes, including acute and chronic problems, addictive illness behavior, and pain as a coded message of psychiatric disease or distress

6. Development of treatment plans pertinent to each patient and pain syndrome to include all appropriate modalities

7. Observation of interventional techniques and active participation in those techniques that will be utilized in the primary care of patients

**Course Faculty and Staff**

- **Gary Reisfield MD** (Director)
- **Robert N Averbuch MD** (Other Faculty)
- **Terry Lemesh** (Course Staff)

**Meeting Place and Time**

UF MOB at Springhill, 3rd floor; NW 39th Avenue; Gainesville, FL 32606 - Monday through Friday, 8:00 AM to 5:00 PM

**Course Materials**

1. The Selfish Brain; Robert L. Dupont, M.D.

2. The Biochemical Basis of Neuropharmacology; Cooper, Bloom and Roth

3. Select journal articles and online readings associated with particular cases, patient experiences

4. Wide variety of patient populations and treatment settings (FRC-Residential, FRC-Impaired Professional, Meridian, VA, VA-ambulatory, TPC Village (JAX), Gateway (Jax), Stewart Marchman (Daytona), outpatient pain and iatrogenic addiction programs and UF Student Mental Health

**Additional Information**

For more information please contact Terry Lemesh tjlemesh@ufl.edu 352-265-0111 X 885724

**Pancreas/Biliary Surgery**
SUR E 20 | 4th Year Elective | Surgery | Clinical Science

Prerequisites

4th year medical student

Course Description

TBA

Course Faculty and Staff

- Kevin Behrns M.D. (Director)
- Michele Silver (Course Staff)
- Brittany Fink (Course Staff)

Meeting Place and Time

TBA

Course Materials

TBA

Additional Information

TBA

Pediatric Cardiology

PED E 1 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

Fourth year medical student

Course Description

This is a course in clinical pediatric cardiology. The goals are as follows:
1. Develop cardiovascular physical examination skills. Distinguishing an innocent murmur from structural congenital heart disease in an ambulatory clinical setting.
2. Develop an approach to the Diagnosis of the critically ill neonate with congenital heart disease by understanding a pathophysiological as well as an anatomical/morphological approach.
3. Understand oxygen transport as it is applied to congenital heart disease.
4. Develop skill in the interpretation of the pediatric electrocardiogram and chest roentgenogram. In addition, develop an appreciation for the diagnostic capability of echocardiography in the management of children with congenital heart disease.
This rotation will focus on outpatient evaluation of children with a variety of congenital heart lesions. These patients will be new referrals to Pediatric Cardiology and those patients returning for follow-up evaluation. Each student will see three to five patients during a half-day session and will be precepted by the cardiology staff involved in those clinics. This arrangement provides detailed one-on-one teaching with the staff cardiologist.

Students also attend teaching and patient care clinical conferences.

**Course Faculty and Staff**

- Cynthia Powell (Course Staff)
- Jennifer Co-Vu (Director)

**Meeting Place and Time**

Human Development Bldg., Room HD303

**Course Materials**

1. Introductory and reference textbooks of pediatric cardiology. We will provide core curriculum of articles for students' initial review.
2. Personal instruction in physical examination using the cardiology patient simulator "Harvey" available.
3. Pathological demonstrations of common congenital heart lesions.

**Pediatric Critical Care Medicine**

PED E 11 | 4th Year Elective | Pediatrics | Clinical Science

**Prerequisites**

Successful completion of 3rd year pediatrics clerkship

**Course Description**

COURSE GOALS:
1. The student will become familiar with a systematic approach to recognizing, assessing, and stabilizing the critically ill child.
2. The student will gain experience in some of the technical aspects of caring for the critically ill child, including venous access, arterial access, and airway management. This also includes knowing the indications and contraindications for interventions and understanding how to interpret laboratory and physiologic data.
3. The student will gain experience in assisting in the care of postoperative children.
4. The student will gain experience with applied physiology and pharmacology of all organ systems, with special emphasis on the central nervous, cardiovascular, renal and respiratory systems.
Course Faculty and Staff

- Torrey D. Baines MD (Director)
- Cynthia Powell (Course Staff)

Meeting Place and Time

Shands PICU, 0700 to 1700 daily, with some call responsibility. Brief orientation after rounds on the first day. Call PICU Fellow cell phone at (352) 494-8383 if directions needed.

Course Materials

Standard textbooks on pediatric critical care medicine are available within the intensive care unit. Key articles are located in the 'Library' folder on the PICU shared drive. In addition, students are expected to use the online Health Science Library resources to look for evidence-based articles on topics and the online pharmacy information.

Additional Information

There is an ICU attending most nights, and an ICU fellow and a pediatric resident in the unit every night providing supervision and teaching.

Pediatric Hematology/Oncology

PED E 5 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

3rd Year Pediatrics

Course Description

COURSE GOALS: This is a primarily outpatient based elective. The student will attend pediatric hematology/oncology clinic at the Medical Plaza 5 days per week. There, s/he will see patients in conjunction with the attending physician, perform exams, and establish a treatment plan. There will be a wide variety of patients to be seen including those with malignancies on treatment or following completion of treatment, children and adolescents with benign hematology problems including anemia, sickle cell anemia, hemophilia and other disorders. New consults will also be seen in clinic and/or the inpatient hematology/oncology/stem cell transplant service. The student will participate in the regular conferences of the Division.

Course Faculty and Staff

- William B Slayton MD (Director)
- Cynthia Powell (Course Staff)
Meeting Place and Time

Unit 41 and Pediatric Inpatient Service 8:00am - 5:00pm, Monday-Friday.

Additional Information

No required on-call responsibilities.

Pediatric Infectious Diseases

PED E 4 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

Fourth year medical student

Course Description

COURSE GOALS: The student will evaluate pediatric patients admitted to the inpatient service with infectious disease problems as well as those patients for whom consultations are requested by other services. He/She will discuss the patients with the inpatient attending, review pertinent literature and write consultation or service notes. Additional experience includes attendance in clinics held each Monday [Infectious Diseases], Wednesday [HIV / AIDS], and Thursday [Infectious Diseases / Travel Clinic]. He/She will be expected to see new and return patients independently, including obtaining history and physical examination, and then present their findings to the clinic attending. Review of the literature regarding interesting patients is expected. He/She is expected to read about common topics in these areas during the rotation.

Goals Objectives Competencies

Key: P=Professionalism, MK=Medical Knowledge; PC=Patient Care; IC=Interpersonal Communication; SBP=System Based Practice, PBLI=Practice-based Learning & Improvement

Goals for Pediatric Infectious Diseases

- To gain a working knowledge of how to approach, evaluate and manage patients with infectious diseases. (PC,MK)
- To understand how a consultation service provides patient care. (PC,MK,IC)
- Work up new patients in outpatient clinic (second year). (PL,MK)
- Develop a greater understanding of how to use anti-infective and anti-inflammatory medications, and passive and active immunizations in the treatment and prevention of infectious diseases. (PC,MK,SBP)
- Develop skills as a life-long learner relative to infectious diseases using information sources, and evidence-based medicine data and principles (MK, PBLI)
- Develop skills as a physician teacher (IC,P)

Objectives for Pediatric Infectious Diseases
Complete 4-8 inpatient consultations (written or dictated) and follow them as the primary consultant re: follow-up, communicating with and teaching other students/residents involved the case. (PC,MK,IC)
- Complete 3-4 outpatient consultations. (PC,MK)
- Research at least one topic (of your own interest) related to ID to present to the group. (MK,PBLI)
- Prepare and give a 10-15 minute didactic presentation (with the help of the Faculty) to the Blue Team as part of their ID education. (MK, PBLI)
- Complete at least one - Evidence-based Medicine search, identify one appropriate EBM article, analyze it and present your analysis to the attending / ID team. (MK, PBLI)
- Prepare a case in Morning Report Format with specific objectives for discussion and have a brief (<10 minute) summary/discussion in response to the important aspect(s) of the case. (MK, PBLI)

Specific Topics to be addressed
1) Antimicrobial Therapy - decision making, choices, potential side effects, risks/benefits
2) Antiviral Therapy - indications, decision making, potential side effects, risk/benefit
3) Antifungal Therapy - indications, decision making, potential side effects, risk/benefit
4) How to use the Red Book - what information is in there
6) The "Standard" ID Evaluation and Work-up
7) Approach to FUO
8) Complications of "Routine" or Common Infections in Children
9) Approach to the Evaluation of a Child with "Too many infections!"
10) How to receive / give the best ID consult and how to use your consultant
11) Identification/characterization of pediatric patients at high risk for infection (e.g. CF, neonates/prefmacute infants, Immune deficiency, Immune suppression, etc.)
12) Active and Passive Prophylaxis for "High Risk Patients"
13) Evaluation and Management of Neonatal HSV Infection
14) Evaluation and Management of Pediatric HIV Infection
15) Prevention of Perinatal HIV Transmission - the pediatrician's role

Course Faculty and Staff
- Robert M Lawrence MD (Director)
- Cynthia Powell (Course Staff)

Meeting Place and Time
Academic Research Building, Rm. R1-118, 8:00am Monday-Friday.

Course Materials
1. Textbooks available in division.
2. Library/Internet search as needed.
3. Recommended Bibliography

**Additional Information**

Student is expected to give a 20-30 minute presentation (knowledge or information about a condition, disease process or medical treatment / intervention by the end of rotation on an area of interest in Rheumatology, ID, or Immunology. A separate EBM presentation will also be expected --> clinical scenario, PICO question, literature search and analysis of the EBM paper and its applicability to the original clinical scenario.

**Pediatric Neurology**

PED E 25 | 4th Year Elective | Pediatrics | Clinical Science

**Prerequisites**

4th year medical student with successful completion of pediatrics as a 3rd year

**Course Description**

This rotation is designed to familiarize the student with the wide range of pediatric neurologic conditions encountered in children. Medical students must learn the basic concepts of pediatric neurology, neuroanatomy, epileptology, and developmental and behavioral neurology, i.e. develop the ability to diagnose and understand the basic mechanisms of pediatric neurological diseases and formulate a logical plan of treatment.

Faculty in Pediatric Neurology at the University of Florida believe that the Key Success Factors include:

1. The development of excellent communication skilled with the families of children with neurological/behavioral concerns. (PC, IC)
2. Learning to perform an adequate pediatric neurological examination in patients that range in age from newborn to young adult. (PC)
3. Knowing what neurodiagnostic tests are required and are cost-effective in managing the patient. (PC, MK, SBP)

The student will have opportunities to acquire knowledge, skills, values, and attitudes in child neurology by participating directly in the care of patients with an array of conditions including: attention deficit disorder, brain tumor, phakomatosis, newborn disorder, mental retardation, micro/macrocephaly, motor disturbance, CNS infection, neuromuscular disturbance, trauma,
sleep disturbance, disorder of consciousness, endocrine disorder, metabolic syndromes, immunologic syndromes, genetic and chromosomal abnormalities, dementia, congenital malformations, and many others.

Course Faculty and Staff

- Edgard Andrade MD (Other Faculty)
- Cynthia Powell (Course Staff)
- Paul R Carney MD (Director)

Meeting Place and Time

8 am on the day of start in Morning Report at Shands Childrens Hospital

Course Materials

pediatric neurology readings will be recommended by the faculty

Additional Information

Email Dr Paul Carney and Amy Cole at least 2 weeks before start of the elective.

Pediatric Pulmonary Medicine

PED E 17 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

4th year medical student

Course Description

This elective is based on inpatient and outpatient experience with children followed by our service for chronic and acute respiratory problems. The student will attend the pediatric pulmonary clinic, see patients on the inpatient service, and in consultation with other clinical services. Based on the student's preferences, the time spent on each of these can be adjusted. There will be a wide variety of patients, including infants and children with cystic fibrosis, asthma, congenital lung malformations, and chronic lung disease of infancy. Students will be introduced to pulmonary diagnostic tests such as pulmonary function testing, flexible bronchoscopy, sleep studies and radiologic evaluation of lung disease. The student will participate in the regular conferences of the Pulmonary Division, where he/she will interact with a multi-disciplinary team involved in the care of children with lung disease.

Course Faculty and Staff

- Mutasim Abu-Hasan MD (Director)
- Cynthia Powell (Course Staff)
Meeting Place and Time
Room D2-15 (Pediatric Pulmonology office)
8:30 am on first day of rotation

Additional Information
Please contact Brenda Martin at 273-8380 the week before your rotation so that she can prepare a set of articles and CDs to be used during the elective

Pediatric Renal Clinical Rotation
PED E 2 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
4th year medical student

Course Description
COURSE GOALS: The student will evaluate new patients and/or interesting return patients during morning clinics each week. He/She will be asked to see the consultations on the Inpatient Service and to perform a literature search on the patient problem. All patients will be reviewed with the pediatric renal attending. The student will attend daily round and conferences with the pediatrics renal attending. At least one patient will be reviewed with the student daily. The student will be encouraged to review pertinent literature as related to each patient. The student will attend a minimum of six renal seminars every month and as many of the 4 patient care conferences every month.

Course Faculty and Staff
• Eduardo Garin MD (Director)
• Cynthia Powell (Course Staff)

Meeting Place and Time
Pediatric Clinic and Inpatient Service Areas 8:00am-5:00pm, Monday-Friday and 9:00am-12:00pm on week-ends.

Course Materials
Lectures and handouts.
Four afternoon Pediatric nephrology state of the art conferences per month.
Three pediatric nephrology core lectures very month.
Four patient care conferences every month.
Two renal pathology conferences every month.
A Pediatric Nephrology Manual available on the Web and by e-mail.
Additional Information
Clinics are on Monday all day, Tuesday, Thursday and Friday mornings, Wednesday afternoons. Pediatric dialysis unit is on 5th floor of hospital. Pediatric nephrology office is HD-214 on 2nd floor of Human Development Building.

Pediatric Rheumatology
PED E 26 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
Fourth year medical student

Course Description
The student will evaluate pediatric patients in clinic and admitted to the inpatient service with immunodeficiencies and autoimmune/rheumatologic problems as well as those patients for whom consultations are requested by other services. He/She will discuss the patients with the inpatient attending, review pertinent literature and write consultation or service notes.

Additional outpatient experience includes attendance in clinics held each Monday [Rheumatology], Tuesday [Immunology/Rheumatology], Wednesday [Rheumatology], and Friday [Rheumatology]. He/She will be expected to see new and return patients independently, including obtaining history and physical examination, and then present their findings to the clinic attending.

Review of the literature regarding interesting patients is expected. He/She is expected to read about common topics in these areas during the rotation.

Course Faculty and Staff
- Renee Frances Modica MD (Director)
- Cynthia Powell (Course Staff)

Meeting Place and Time
TBA:
Please call the main office at: 352-294-5252 to contact the on-service attending for the specific schedule and meeting times.

Clinic Location:
4th floor of Shand's hospital infusion room for pediatric subspecialties.
Inpatient rounds: 4

**Course Materials**

Textbook of Pediatric Rheumatology by Cassidy and Petty.

"PRINTO" website for educational materials for patients and families.

Up To Date website: section on pediatric rheumatology and immunology.

**Additional Information**

Please call the main office at:
352-294-5252 to contact the on-service attending for the specific schedule and meeting times.

Clinic Location:
4th floor of Shand’s hospital infusion room for pediatric subspecialties.

Inpatient rounds:
4200 (green team rounding room).
Also, rounds with consultants on other services.

---

**Pediatric Surgery**

**SUR E 1 | 4th Year Elective | Surgery | Clinical Science**

**Prerequisites**

Completed 3rd year surgery clerkship.

**Course Description**

Cognitive Domain: 1. Evaluate and discuss common problems frequently seen in pediatric surgery; 2. Complete a written pediatric surgery History and Physical; 3. Briefly describe the operative management of basic pediatric surgical diseases, including but not limited to: pyloric stenosis, appendicitis, hernias, cryptorchidism, intussusception, congenital anomalies, neonatal bowel obstructions, trauma evaluation and resuscitation, and common childhood solid tumors.

Psychomotor Domain: 1. Demonstrate proficiency in common intern-level duties including nasogastric tube insertion, excision of skin lesions, obtaining IV access and basic suturing. 2. Recognize the role of existing and emerging surgical technology and research in the field and practice of pediatric surgery. 3. Reliably use the Internet and electronic tools as a medical resource.

Affective Domain: 1. Expand his/her exposure to and appreciation for a career in pediatric surgery and academic surgery. 2. Become more aware of the opportunities available to residents in surgery. 3. Appreciate the influence of research as it applies to pediatric surgical problems.

The Division of Pediatric Surgery strives to
provide the senior student an extensive exposure to major surgical problems in infants and children; including newborn anomalies, airway problems, solid tumors, acquired diseases, and trauma. General surgical principles and techniques, preoperative assessment, and postoperative care are emphasized with externship responsibility.

**Course Faculty and Staff**

- Michele Silver (Course Staff)
- Saleem Islam MD (Director)
- David W Kays MD (Other Faculty)
- Brittany Fink (Course Staff)

**Meeting Place and Time**

Department of Surgery (N6-10); Pediatric Surgery; 352-273-8825 Call office to obtain time and place to meet for the first day on the rotation.

**Course Materials**

Prepared student syllabus; Selected readings from surgical texts (chapters on Pediatric Surgery) and additional readings from current journals will be assigned during the rotation for regular conferences and teaching.

**Additional Information**

Pediatric Surgery is the last true bastion of General surgery and incorporates the added advantage of being able to care for children and neonates of all ages. The variety of cases we see are unparalleled and offer an insight into embryologic and other considerations. The Sub I will be allowed to function fully as an intern by seeing consults, taking care of floor patients and operating. As this is a very busy service, you can expect to be well trained in handling consults, taking care of floor patients and ED consults as well. Research (clinical) opportunities are available as well.

Most of all -- its FUN!

**Physical Medicine and Rehabilitation Elective**

ORTH E 3 | 4th Year Elective | Physical Medicine and Rehabilitation | Clinical Science

**Prerequisites**

Satisfactory completion of third-year clerkships.

**Course Description**

COURSE GOALS: To increase the student's knowledge of assessment and management of persons with severe impairment and disability following neurologic or musculoskeletal injuries who will benefit from comprehensive inpatient rehabilitation. This course will emphasize medical aspects of managing a patient in rehabilitation over a course of time to
improve the functional outcome and enhance community reintegration. This course is recommended for all students interested in physical medicine and rehabilitation and will be tailored to meet their interests and needs whether they are considering a career as a primary care physician or specialist.

**Course Faculty and Staff**

- Kevin R. Vincent MD, PhD (Director)
- MaryEllen Paulk (Course Staff)

**Meeting Place and Time**

Shands Rehab Hospital, 4101 NW 89th Blvd., at 0800, Monday-Friday, may be some Musculoskeletal clinics at the in the Orthopaedic and Sports Medicine Institute on Hull Road, if the student desires.

**Course Materials**

Selected readings will be suggested by attending physicians based on the diagnosis of patients admitted during the rotation and basic musculoskeletal injuries seen in the outpatient clinics.

**Plastic & Reconstructive Surgery UF&Shands/VAMC**

SUR E 4 | 4th Year Elective | Plastic Surgery | Clinical Science

**Prerequisites**

A third-year rotation in Plastic and Reconstructive Surgery is useful, but not required. We welcome all interested fourth-year medical students.

**Course Description**

COURSE GOALS: During a month long rotation, a student will perform as an extern under the supervision of the resident staff and the faculty. The emphasis will be on the principles of the diverse field that is Plastic and Reconstructive Surgery and the preoperative decision-making and postoperative care involved. The student will be expected to assist in surgeries and be exposed to variety of patients in clinic. There will also be an emphasis on basic surgical skills. The student will also give a short presentation on a Plastic Surgery topic of choice at the conclusion of the rotation.

**Course Faculty and Staff**

- Michele Silver (Course Staff)
- Sonu A. Jain MD (Director)
- Brittany Fink (Course Staff)
Meeting Place and Time

Please contact the Course Director prior to the start of the rotation.

Course Materials

COURSE MATERIALS: Students will be given the Plastic and Reconstructive Surgery Essentials for Students packet, if they have not already received it. Learning will be from many sources - Core Curriculum, Morbidity & Mortality, Grand Rounds, Preoperative Conference, and Journal Club. Also the faculty and residents will be involved with teaching both in clinic and in the operating theater. The student will have the opportunity to learn from and participate in the care of patients with a variety of surgical problems. The student will be an active participant on the service.

Additional Information

If there are any questions regarding any aspect of the rotation, please do not hesitate to get in touch with us.

Previous Credits Obtained

COM E 5 | 4th Year Elective | Comec Chapman Education Center | Basic Science

Prerequisites

4th Year UF Medical Student

This course should be selected when creating schedules to use as a placeholder for credits obtained from previous participation in a course or courses (i.e. Narrative Medicine).

Course Description

This course should be selected when creating schedules to use as a placeholder for credits obtained from previous participation in a course or courses (i.e. Narrative Medicine).

Course Faculty and Staff

No faculty or staff.

Meeting Place and Time

TBA

Primary Care in Otolaryngology

OTOL E 2 | 4th Year Elective | Otolaryngology | Clinical Science

Prerequisites
Course Description

COURSE GOALS:
1. To acquaint students considering careers in primary care fields with the management of the most common otolaryngologic disorders they will encounter in their practice.
2. To better prepare students to independently manage patients with routine otolaryngologic disorders by allowing them to evaluate and treat such conditions under the supervision of a faculty member.
3. To review and enhance the students knowledge of head and neck Anatomy and to train students in the performance of a complete head and neck exam.
4. To educate students as to the proper utilization of otolaryngologic consultation.
5. To provide a detailed understanding of the management of obstructive sleep disorders, otitis, allergic rhinitis, sinusitis, hoarseness, tonsillitis, common head and neck cancers, and hearing problems via small group discussions and direct patient care.

COURSE SETTING: Outpatient setting at the Hampton Oaks and Shands ENT Clinics. Inpatient and surgical care are not emphasized but available to the student desiring a wider perspective.

Course Faculty and Staff

- Nicolle Rutledge (Course Staff)
- Neil Chheda MD (Director)

Meeting Place and Time

M2-228 to pick up materials and rotation schedule from Nicolle Rutledge the week prior to your rotation.

Course Materials

Obtain from the department office, M-228. Please call 273-5199 to obtain other course materials prior to beginning your rotation.

Additional Information

Must return any and all materials borrowed during your rotation on the Friday of your last week.

Course content could be tailored to individual student's future career interests.

Psychiatry Consultation/Liaison

PSY E 15 | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites
Fourth Year Medical Student - students must contact the Course Director prior to the start of their rotation.

Course Description

This rotation exposes students to the interface of Psychiatry with other medical specialties, especially as many inpatients have significant co-morbidities. The focus will be on the treatment of psychiatric emergencies and the management of the agitated patient. Students will help to evaluate and treat patients with psychiatric and medical/surgical Co-morbidities. Students will also take part in attending rounds and teaching conferences. The rotation can be tailored to the specific interests and needs of participating students, depending on what field choice they have made. Students can be assigned to take care of patients with specific co-morbidities or in particular settings (ie ICU, ER, etc. . .) that would best enhance their medical knowledge for their future residency.

Course Faculty and Staff

- Mathew L Nguyen MD (Director)
- Terry Lemesh (Course Staff)

Meeting Place and Time

Students must contact the Course Director prior to the start of their rotation.
Time: 8am at beginning of rotation
Place: Psychiatry Consultation/Liaison workroom. Please e-mail Dr. Nguyen before the rotation begins: mlnghuyen@ufl.edu.

Course Materials

DSM-IV Diagnostic and Statistical Manual of Mental Disorders

Additional Information

Faculty Participants - Mathew Nguyen, MD

Psychiatry Outpatient Clinics

PSY E 7 | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites

Satisfactory completion of third year clerkship in Psychiatry. Note, students from outside UF COM must obtain prior approval from Course Director.

Course Description
Senior medical students will receive training in the comprehensive evaluation and treatment of a wide variety of psychiatric conditions, managed in the outpatient setting. The Medical Office Building (MOB) at Springhill Psychiatric Clinics (3rd floor) are the primary location for this rotation. However, students may also elect to complete some or all of the rotation at our Vero Beach Clinic. Clinic specialty areas include Women’s Health, Neuropsychiatry and Movement Disorders, DBS, Eating Disorders and Weight Management, Sleep Disorders, Adult Autism/PDD, Geropsychiatry, TMS clinic, and more. Medical students will work either directly with faculty experts in specialty areas, or closely with psychiatry residents under the supervision of an attending. Students may also be involved in the mentoring and instruction of 3rd year clerkship students currently rotating on psychiatry.

Course Faculty and Staff

- Robert N Averbuch MD (Director)
- Herbert E Ward MD (Co-Director)
- Terry Lemesh (Course Staff)

Meeting Place and Time

To be arranged. Please contact Terry Lemesh (tjlemesh@ufl.edu) 265-7981 or Dr. Averbuch (averbuch@ufl.edu) at least a few weeks prior to arrange specifics of the rotation.

Course Materials

DSMV Pocket Companion
Kaplan and Saddock’s Synopsis of Psychiatry, Latest Edition

Additional Information

Please note, in the past, this rotation was selected for those interested in inpatient services (including Addictions) and consult rotations. These areas are now offered as distinct, separate courses.

Psychiatry, Medical Psychology Division: Cognitive Behavioral Therapy

PSY E 18 | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites

Medical students who are in their fourth year are eligible for enrollment. Students are responsible for contacting the Course Director prior to start of the rotation.

Course Description
This rotation will offer medical students the opportunity to observe and participate in the delivery of psychological services using Cognitive Behavioral Therapy (CBT) and Exposure Response Prevention treatment within an outpatient setting. The Medical Psychology Division is an internationally recognized treatment and training center for Obsessive Compulsive Disorder (OCD) and offers an intensive OCD program where treatment is delivered daily over the course of three weeks. Data for patients who have participated in the UF intensive program have shown significant improvements, with approximately 80 to 85 percent showing symptom reduction by at least 50 percent. Medical students will also be able to observe other psychiatric conditions such as autism, Anxiety, Depression, ADHD, Tourette’s, Trichotillomania, and Tic Disorder. This rotation can be tailored to the specific interests and needs of participating students. This rotation is well suited for students who want to learn more about psychopharmacological and behavioral treatments, particularly CBT, and are interested in primary care, Pediatrics, or a Psychiatry residency in the future.

**Course Faculty and Staff**

- **Terry Lemesh** (Course Staff)
- **Joseph McNamara PhD** (Director)
- **Gary Geffken PhD** (Other Faculty)

**Meeting Place and Time**

Students must contact the Joseph McNamara, Ph.D. prior to the start of their rotation to make arrangements.

Location: 8491 NW 39th Ave, Gainesville, FL 32606 (Spring Hill)

Email: Joseph McNamara, Ph.D. jpm2@ufl.edu

**Course Materials**


***When the new version is published, please purchase the new version

---

**Pulmonary Medicine**

MED E 5 | 4th Year Elective | Internal Medicine | Clinical Science

**Prerequisites**

4th year medical student

**Course Description**
Promote an understanding of clinical pulmonary physiology through the interpretation of pulmonary function testing.

Learn the evaluation and management of chronic obstructive pulmonary disease, asthma, lung masses, interstitial lung disease and sleep disorders.

Be exposed to an overview of pulmonary diseases, i.e., tuberculosis and occupational lung disease.

Students will rotate with the Pulmonary consult service. Students are expected to do consults on their own and present these consults to the rest of the team for discussion. Students are also expected to follow their patients and report appropriate updates on the case. In the afternoon students will have the option to follow the attending on service to their clinic to be expose to outpatient management of pulmonary diseases.

Course Faculty and Staff

- Jorge Lascano MD (Director)
- Jon Coffey (Course Staff)
- Michael A Jantz MD (Other Faculty)
- Hassan Alnuaimat MD (Other Faculty)
- Irahim Faruqui MD (Other Faculty)

Meeting Place and Time

Contact Jon Coffey prior to the start of the rotation 352-273-8667 or via email jon.coffey@medicine.ufl.edu. The meeting place will be in M452 at 9 am in the HSC for the first morning of the rotation.

Course Materials

Articles of interest.

COPD

1. http://www.annals.org/content/143/5/317.full.pdf+html
   A large multi-center RCT of VA patients with moderate to severe COPD (mean baseline FEV1 36%) found tiotropium reduced the proportion of patients with 1 or more exacerbations during 6 months of treatment vs. placebo (27.9 % vs. 32.3 %). These results support using tiotropium in COPD patients with moderate to severe obstruction and frequent exacerbations.

   This study found a combination of BMI, FEV1, modified MRC dyspnea scale, and 6-minute walk (i.e. the BODE index) was a better predictor of mortality than FEV1 alone. The BODE index may prove to be a better guide than FEV1 for assessing the efficacy of new treatments and adjusting the aggressiveness of therapy.
The TORCH study randomized over 6,000 patients with baseline FEV1 < 60% predicted to placebo vs. salmeterol alone vs. fluticasone alone vs. a combination of salmeterol and fluticasone over 3 years. Compared to placebo, patients receiving combination therapy had a 0.9% annual reduction in mortality ($p = .052$). Use of salmeterol, fluticasone, or a combination of the 2 reduced the frequency of exacerbations, but $p$ was >.10 for all 3 for reducing risk of COPD-related death. All-cause mortality and COPD-related death were lower with combination therapy than fluticasone alone ($p = .007$ and .008, respectively).

Multicenter, double blind, placebo-controlled study found modest benefit to use of high-dose intravenous steroids. Steroid group had fewer treatment failures (combined endpoint of death, need for intubation, readmission, or intensification of pharmacologic therapy), and shorter hospital stays, but the primary benefit was in decreasing the need to intensify therapy with use of open-label steroids. No benefit from steroids was present at 6 months of f/u, and 2 week and 8 week courses were equally effective.

**ASTHMA**

1. RCT of 466 patients of 6 months duration found PRN use of a single inhaler combination of beclomethasone and albuterol resulted in better peak flows and fewer exacerbations compared to PRN use of albuterol alone, as well as comparable peak flows, exacerbation rate, lung function, and symptoms to regular twice daily use of beclomethasone. The PRN beclomethasone group on average used < 125 mcg/day compared to 500 mcg/day in the regular twice daily groups.

2. A year-long RCT of 225 adults with mild persistent asthma compared prn inhaled corticosteroids based upon symptom-based action plan vs. daily treatment with ICS vs. daily leukotriene inhibitor and found no difference in morning peak expiratory flow and the rate of asthma exacerbations despite the prn corticosteroid group using an average of only 0.5 week of steroid per year. The ICS group had superior asthma control scores and lower markers of airway inflammation. Some attribute this relatively modest benefit of regular ICS use to the lower exacerbation rate in this study compared to its predecessors, which speaks to the challenge of identifying mild persistent asthmatics.

3. This study included 2,760 asthmatics with a history of at least one exacerbation in the previous year and regular need for rescue bronchodilators despite baseline use of, on average, moderate doses of inhaled corticosteroid. Patients randomized to budesonide/formoterol (80/4.5) bid and prn had prolonged time to exacerbations requiring medical intervention compared to combination therapy with terbutaline prn or higher dose steroid (budesonide 320 bid) plus terbutaline prn. Subsequent RCTs have also shown favorable outcomes with this approach.
Review summarizes several large RCTs studying the role of anti-IgE antibody in allergic asthma. The use of anti-IgE is associated with decreased frequency of exacerbations, reductions in corticosteroid dose, and improved quality of life in symptomatic patients with moderate to severe allergic asthma.

**CAP**

359 patients with lower respiratory tract infections in 6 Swiss academic hospitals were randomized to a treatment algorithm based on procalcitonin (PCT) levels or to treatment based on current evidence based guidelines. PCT-guided therapy reduced total antibiotic exposure without any change in adverse outcomes. Controversy exists regarding the unusually high prevalence of "severe" pneumonia by PSI score, and that reduction in exposure was primarily due to reduced duration of antibiotics rather than avoidance.

**Lung Nodule/Lung Ca**

1. [http://chestjournal.chestpubs.org/content/132/3_suppl/178S.full.pdf+html](http://chestjournal.chestpubs.org/content/132/3_suppl/178S.full.pdf+html)
ACCP evidence-based clinical practice guidelines (2nd Edition) reviewing the evidence for staging of non-small cell lung cancer with CT and PET scanning.

2. [http://chestjournal.chestpubs.org/content/132/3_suppl/178S.full.pdf+html](http://chestjournal.chestpubs.org/content/132/3_suppl/178S.full.pdf+html)
ACCP evidence-based clinical practice guidelines (2nd Edition) reviewing the sensitivity and specificity of various tissue sampling techniques: TTNA, TBNA, EBUS, EUS, VATS, Chamberlain procedure, mediastinoscopy and extended cervical mediastinoscopy.

Guideline for how best to work up the incidental nodule(s) that nicely distills the large number of trials on this topic.

**PERIOPERATIVE PULM ASSESSMENT**

1. [http://chestjournal.chestpubs.org/content/132/3_suppl/161S.full.pdf+html](http://chestjournal.chestpubs.org/content/132/3_suppl/161S.full.pdf+html)
Updated summary of the use of PFTs, split function tests, and cardiopulmonary exercise tests in the assessment of lung resection candidates.

Multi-center, unblinded RCT with concealed allocation on 209 consecutive patients who developed severe hypoxemia after major elective abdominal surgery. Patients received oxygen vs. oxygen plus CPAP. Use of CPAP resulted in lower intubation rates, lower risk of pneumonia and sepsis, and shortened ICU stays.

**PE**

1. [http://www.annals.org/content/135/2/98.full.pdf+html](http://www.annals.org/content/135/2/98.full.pdf+html)
Large prospective cohort study using the SimpliRED d-dimer assay (which has sensitivity lower than, and specificity higher than, some other d-dimer tests) found the combination of a
low clinical suspicion for PE and a negative d-dimer safely ruled out pulmonary embolism without additional testing.

PFT's
An excellent comprehensive review of reference equations, types of ventilatory defects, PFT and DLCO interpretation, severity classifications, bronchodilator response thresholds, central and upper airway processes, and interpretation of changes in pulmonary function.

PULM HYPERTENSION
1. http://ajrccm.atsjournals.org/cgi/reprint/179/7/615
This prospective study of 65 patients undergoing right-heart catheterization for the diagnosis or management of pulmonary hypertension. Echo over or underestimated pulmonary artery pressure by > 10 mm Hg 52% of the time. The majority of patients had pulmonary arterial hypertension (WHO Group 1).

2. http://circ.ahajournals.org/cgi/reprint/119/16/2250
This document is noteworthy for containing the latest consensus statement on the classification, evaluation, treatment, and monitoring of patients with pulmonary hypertension.

Additional Information
A list of articles of interest will be email to you for your review before the course starts.

Radiology - Angio/Interventional
RAD E 4 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff
- Brenda Tieden (Course Staff)
- James G Caridi MD (Other Faculty)
- Darren Postoak MD (Other Faculty)
- Brian Geller MD (Other Faculty)
- Lori A. Deitte MD (Director)
Meeting Place and Time
Department of Radiology, Room G-304: 8AM to 5PM; Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Radiology - Body Imaging
RAD E 3 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff
• Brenda Tieden (Course Staff)
• Julia K Marshall (Other Faculty)
• Lori A. Deitte MD (Director)
• Suzanne T Mastin (Other Faculty)
• Gladys M Torres (Other Faculty)
• Patricia L Abbitt MD (Other Faculty)
• Roberta Slater MD (Other Faculty)
• Patricia Moser MD (Other Faculty)
• Elizabeth Vorhis MD (Other Faculty)
• Linda Lanier MD (Other Faculty)
• Cyrus Monroe MD (Other Faculty)
• Eric K. Thoburn MD (Other Faculty)

Meeting Place and Time
Department of Radiology, Room G-304; 8AM-5PM, Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

**Additional Information**

Please note that depending on the number of students enrolled in this elective and the diagnostic elective, participation in an early morning emergency rotation from 6AM to 2PM or an evening emergency rotation from 11AM to 8PM may be required. Please plan accordingly.

**Radiology - Cardiac Imaging**

RAD E 10 | 4th Year Elective | Radiology | Clinical Science

**Prerequisites**

4th year medical student

**Course Description**

Course Goals:

The rotation through the Cardiac Imaging Section of Radiology will provide a unique opportunity to be involved in the interdisciplinary evaluation of patients with Heart Disease.

Specifically:

1. Include exposure to a range of activities/procedures in: Cardiac MRI - both adult and congenital pediatric, Cardiac CT, Pulmonary vein Ablation, Coronary Calcium Scoring; Echocardiography, Nuclear Cardiac imaging, and Coronary Angiography

2. To become familiar with imaging/clinical activities, and more particularly what is involved in the performance and acquisition of the various studies;

3. To learn to use radiologists as consultants and how they interface with Cardiologists and other members of the healthcare team in cardiac imaging;

4. To understand the triage and workup of the Chest Pain patient

5. To become familiar with issues of cost containment in the selection of imaging workup

6. To become familiar with the issues of radiation exposure in cardiac imaging

In addition the student will have the opportunity to review the extensive online teaching curriculum in the Cardiac Section and will be expected to be involved in the weekly Cardiac/Radiology Conferences held on Tuesdays, Wednesdays and Fridays.

**Course Faculty and Staff**
Meeting Place and Time
Department of Radiology; Room G-304; 8AM to 5PM; Mon-Fri

Course Materials
Students will be provided with access to select teaching files; suggested reading material, and websites (to include learning modules)

Radiology - Chest
RAD E 9 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff

- Brenda Tieden (Course Staff)
- David Wymer MD (Other Faculty)
- Roger Shifrin MD (Other Faculty)
- Suzanne T Mastin (Other Faculty)
- Eric K. Thoburn MD (Other Faculty)
- Lori A. Deitte MD (Director)
- Julia K Marshall (Other Faculty)
- Gladys M Torres (Other Faculty)
- Suzanne T Mastin (Other Faculty)
- Jerry M Speckman MD (Other Faculty)
- Patricia L Abbitt MD (Other Faculty)
- Lori A. Deitte MD (Director)
- Roberta Slater MD (Other Faculty)
- Elizabeth Vorhis MD (Other Faculty)
- Linda Lanier MD (Other Faculty)
- Ray A. LaRue III MD (Other Faculty)
- Patricia Moser MD (Other Faculty)

Meeting Place and Time
Department of Radiology, Room G-304, 8AM to 5PM; Mon-Fri

**Course Materials**

Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

**Additional Information**

Please note that this rotation may not be taken for less than four weeks.

---

**Radiology - Diagnostic Imaging**

RAD E 1 | 4th Year Elective | Radiology | Clinical Science

**Prerequisites**

None

**Course Description**

Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

**Course Faculty and Staff**

- Patricia L Abbitt MD (Other Faculty)
- Julia K Marshall (Other Faculty)
- Gladys M Torres (Other Faculty)
- Brenda Tieden (Course Staff)
- Lori A. Deitte MD (Director)
- Suzanne T Mastin (Other Faculty)
- Jerry M Speckman MD (Other Faculty)
- Gladys M Torres (Other Faculty)
- David Wymer MD (Other Faculty)
- Jonathan L Williams MD, MBA (Other Faculty)
- Walter E Drane MD (Other Faculty)
- Charles H Bush (Other Faculty)
- Ronald G Quisling MD (Other Faculty)
- James G Caridi MD (Other Faculty)
- Troy Storey MD (Other Faculty)
- Roberta Slater MD (Other Faculty)
- Jeffrey Bennett MD (Other Faculty)
- Darren Postoak MD (Other Faculty)
- Brian Geller MD (Other Faculty)
Meeting Place and Time
Department of Radiology, Room G-304, 8AM-5PM, Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Additional Information
Please note that students registered for the diagnostic imaging rotation will rotate to a different section each week. Depending on the number of students enrolled in this elective and the Body elective, dedicated reading room time may NOT be available within the Body Division. In addition, participation in an early morning emergency rotation from 6AM to 2PM or an evening emergency rotation from 11AM to 8PM may be required. Please plan accordingly

Radiology - Musculoskeletal System
RAD E 6 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff

- Charles H Bush (Other Faculty)
- Brenda Tieden (Course Staff)
- Troy Storey MD (Other Faculty)
- Lori A. Deitte MD (Director)
- CooperDean MD (Other Faculty)

Meeting Place and Time

Department of Radiology, Room G-304, 8AM-5PM, Mon-Fri

Course Materials

Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Additional Information

The MSK reading room is located at the Orthopaedic Institute. Students on this rotation will be required to travel back and forth between the Ortho Institute and the main hospital.

Radiology - Neurologic

RAD E 2 | 4th Year Elective | Radiology | Clinical Science

Prerequisites

None

Course Description

Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff

- Brenda Tieden (Course Staff)
- Ronald G Quisling MD (Other Faculty)
- Jeffrey Bennett MD (Other Faculty)
- Keith R Peters MD (Other Faculty)
- Lori A. Deitte MD (Director)
• Reordan DeJesus MD (Other Faculty)
• Keith R Peters MD (Other Faculty)
• Anthony Mancuso MD (Other Faculty)
• Sharat Bidari MD (Other Faculty)

Meeting Place and Time
Department of Radiology, Room G-304, 8AM-5PM, Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Radiology - Nuclear Medicine
RAD E 7 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff
• David Wymer MD (Other Faculty)
• Brenda Tieden (Course Staff)
• Walter E Drane MD (Other Faculty)
• Suzanne T Mastin (Other Faculty)
• Lori A. Deitte MD (Director)

Meeting Place and Time
Department of Radiology , Room G-304, 8AM to 5PM; Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)
Radiology - Pediatric
RAD E 8 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; to become familiar with issues of cost containment

Course Faculty and Staff
- Brenda Tieden (Course Staff)
- Jonathan L Williams MD, MBA (Other Faculty)
- Roberta Slater MD (Other Faculty)
- Lori A. Deitte MD (Director)
- Ed Burton MD (Other Faculty)
- Rob Dubuisson MD (Other Faculty)

Meeting Place and Time
Department of Radiology, Room G-304, 8AM-5PM; Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Religion, Culture and Medicine
CM E 30 | 4th Year Elective | Community Health and Family Medicine | Basic Science

Prerequisites
Independent study. Must have course director's prior approval. Must complete independent study form and submit to Dr. Harrell.

Course Description
COURSE GOALS: The goals of this course broadly include both practical aspects of medical practice in which cultural and/or religious issues arise, as well as substantive issues in which religious and/or cultural traditions and identity interact with an individual's medical practice or medicine as a social institution and cultural phenomenon in its own right. The course is
sufficiently flexible for students to spend some of their time and efforts on topics of particular individual interest as well as exposure to diverse perspectives.

**Course Faculty and Staff**

- William L Allen JD (Director)
- Cheri Knecht (Course Staff)

**Meeting Place and Time**

TBA

**Course Materials**

Selected books, journal articles, films and videos, or websites.

**Additional Information**

Project required.

**Reproductive Endocrinology and Infertility**

**OBG E 2 | 4th Year Elective | Obstetrics and Gynecology | Clinical Science**

**Prerequisites**

Successful completion of 3rd year OB/GYN rotation.

***NOTE*** - Rotation must be approved and coordinated at least 4 weeks in advance with Dr. Alice Rhoton-Vlasak.

**Course Description**

Exposure to the evaluation, diagnosis and treatment of a wide range of clinical endocrine problems in the female.

Exposure to principles used in the evaluation and treatment of infertile couples.

Exposure to the application of current methods available for family planning and their management in clinical practice.

Comprehensive reading and discussions of materials relevant to Reproductive Endocrinology and Infertility.

Exposure to basic principles of gamete handling and sperm micromanipulation in the Human Gamete Laboratory.

**Course Faculty and Staff**
Meeting Place and Time
Schedule tailored to the student. Various meeting places (transportation needed); 1. Women's Health at Magnolia Parke. 2. Women's Health Group at the Medical Plaza, Florida Surgery Center and Shands at UF

Course Materials
2. Binder with recent relevant reprints. Will be supplied on the first day of the rotation.

Additional Information
Final grade is determined as follows:
Written evaluations from faculty and residents based on the competencies described below = 70%.
Thesis presentation at the completion of the rotation = 30%

Rheumatology and Clinical Immunology
MED E 8 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites
Completion of Internal Medicine Core Rotation

Course Description
The student will be exposed to clinical rheumatology in both the inpatient and the outpatient setting; with an emphasis on the latter. Most of the interactions occur in the clinic with direct one-on-one teaching. Students will typically see patients by themselves and present to faculty. Didactic learning experiences are available and include a monthly musculoskeletal radiology conference; a weekly clinical conference; a weekly research conference and a monthly research journal club. In addition; the student may attend learning sessions with the fellows; and can round with the inpatient service. The rotation utilizes clinical resources at both Shands at UF and the VA Hospital.

Course Faculty and Staff
- Westley H Reeves (Other Faculty)
Meeting Place and Time
Meet at Division of Rheumatology office on the first day of the rotation at 8 am Room D2-39 in the Dental School.

Course Materials
Primer on the Rheumatic Diseases

Additional Information
Non-UF students applying for this rotation must also submit a current CV along with the required application materials.

Rural Health Care Systems
CM E 5 | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Prerequisites
4th year student

Course Description
COURSE GOALS: This course offers a comprehensive look at the delivery of health care in rural areas. Students are provided an immersion experience in rural medicine in Gulf County, Florida, which includes both beachfront and rural inland communities. The host facility is a beautiful state-of-the-art site that is both a county health department and a federally-qualified community health center. Welcoming providers and staff foster the students’ experience in women's health, chronic disease management, pediatrics, and preventive services. In addition to hands-on clinical care, students are provided with the opportunity to actively participate in health systems events, such as responding to natural disasters, and to visit other health facilities within the community. Housing and travel expenses are provided for this experience through the Rural Practice Development Center at Sacred Heart Health System with funding from the Florida Department of Health. Big Bend AHEC coordinates the housing, travel reimbursement, and rotation arrangements with the site.

Course Faculty and Staff
Robert L Hatch MD (Director)

Meeting Place and Time
To be arranged.

Additional Information
Housing and mileage reimbursement are provided. Only 4 week rotations are available. Of the time frames offered to students, which start on July 1 and go through April 26th, the only ones that we can accommodate at the site are the following 4 week rotations highlighted below.

Rural Preceptorship
CM E 4 | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Prerequisites
Fourth Year Medical Student

"Students must prearrange this rotation with the Course Director prior to scheduling."

Course Description
"A wide variety of sites are available, including the opportunity to return to the office of the student's first year preceptor."

Approval to participate in this elective must be obtained from the course director prior to scheduling.

COURSE GOALS: To participate in a general or specialty practice in a rural community. The student will live in the community during this rotation and participate in all aspects of his/her preceptors practice. Housing and transportation provided through the Univ. of FL. AHEC office.

LIST OF PRECEPTORS:

CARDIOLOGY
Joseph Cherian, M.D., F.A.C.C. - Milton, FL,
Practice is 60% cardiology, 40% Internal Medicine. Office practice.
Includes: electro/echocardiograms, doppler, color flow doppler, stress tests, holter monitors, pacemakers.

Angel Morrobel, M.D. - Sacred Heart Medical Group, Miramar Beach, FL Group practice associated w/ Sacred Heart Hospital on the Emerald Coast Echocardiograms, transesphogeal echos, nuclear stress tests, cardiac catheterization, pacemaker analysis.
DERMATOLOGY

Charles Trapp, M.D. - Emerald Coast Dermatology, Crestview, Destin, Fort Walton Beach FL
Group practice, Focus on skin cancer detection, Active Mohs Micrographic Surgery, General Dermatology, Outpatient cutaneous surgery.

FAMILY PRACTICE

William Belk, M.D. - Gulf Coast Physician Partners

Jerry Boland, M.D. - Taylor County Public Health Unit.
Dr. Boland is the director of the Taylor County Public Health Unit in Perry, Florida. He practices at the health unit in this remote rural county. This experience would be particularly helpful to those interested in public health.

John Johnson, M.D. - Sacred Heart Crestview Medical Group, Crestview, FL Very busy group practice, interdisciplinary w/ ARNPs, PAs and specialists. Inpatient/Nursing Home, Diabetes Clinic.

Coy Irvin, M.D. - Gulf Coast Physician Partners

Jonathan Fountain, M.D. - Milton, FL
Solo practice, UF Graduate

Dennis Mayeaux, M.D. - Gulf Coast Physician Partners, Milton, FL
Very busy group practice, Clerkship Director for Family Practice FSU COM, Patients rural/underserved, 40 patients per day, Huge Gator Fan, Inpatient.

Lance Raney, M.D. - Century Medical Center, Century, FL
Extremely rural site for minority and underserved patients, Small hospital.

George Smith, M.D. - Escambia Community Clinics, Pensacola, FL
Federally Qualified Health Center, Dr. Smith is the Medical Director, Primary training site for 3rd/4th year FSU medical students, Outpatient ambulatory care center, Urgent care facility, extended hours. Facility has full x-ray and lab services. Patients are primarily indigent/underserved. Clinic provides acute/urgent care services.

INTERNAL MEDICINE

Garry Banks, M.D. - Niceville, Destin, FL
Solo practice, UF Graduate, Sees a large number of diabetic patients, HUGE Gator Fan, Inpatient

Wayne Campbell, M.D. - Sacred Heart Crestview Medical Group, Crestview, FL
Very busy group practice, large mix of patients, interdisciplinary w/ ARNPs, PAs and specialists.
Fulton DeFour, M.D. - West Florida Hospital, Pensacola, FL
Hospitalist and experienced preceptor

Michael Foley, M.D. - Crestview, FL
Solo practice, medically underserved and rural population, works late afternoon and evening hours, Inpatient.

Warren Groff, M.D. - Fernandina Beach
Dr. Groff’s office is located in Fernandina Beach which is in the north east corner of Florida. He practices with Dr. Tomlinson, another family practitioner, and Dr. Buford, whose specialty is internal medicine.

Andrew Teklinski, M.D. - Yonge, Law and Teklinski
Group practice. 5-10 hospital patients per week. Patients are primarily medicare with a lot of medical problems.

Lee Thigpen, M.D. - Sacred Heart Crestview Medical Group, Crestview, FL
Very busy group practice, large mix of patients, interdisciplinary w/ ARNPs, PAs and specialists, Lipid Specialist, Preventive Medicine, Inpatient

ORTHOPAEDICS/ORTHOPAEDIC SURGERY

Thomas Fox, D.O. - Bluewater Orthopaedics, Niceville, Destin, Crestview, FL Busy group practice, Board certified in Orthopaedic Surgery, Sports Medicine, Inpatient.

Michael Gilmore, MD - Panhandle Orthopaedics; Marianna, Florida (850)526-4555 - Clinic 2 to 3 times a week - Surgery 2 to 3 times a week. Housing arranged for students - no weekend call.

OTOLARYNGOLOGY

Charles Grayson, D.O. - Crestview ENT, Crestview, FL
Solo Practice, 40% pediatric, 60% adult.

PEDIATRICS

Bilal Khodr, MD; Perry, Florida

John Van Ostenbridge, M.D. - Emerald Coast Pediatrics, Milton, FL
Very busy practice, Patients rural/underserved, Inpatient.

Corey Wolff, M.D. - The Wolff Center for Child and Adolescent Health, Pensacola, FL
Solo practice.

SURGERY

Dennis Stewart, M.D. - Crestview, FL
Solo Practice, General, trauma, thoracic, vascular, advanced laparoscopic surgical procedures.
Kurt Stockamp, M.D. - Pensacola, FL
Group practice, General Surgery.

Course Faculty and Staff

- Robert L Hatch MD (Director)

Meeting Place and Time

To be arranged.

Course Materials

NA

Additional Information

Approval to participate in this course must be obtained from the course director and the preceptor prior to scheduling.

Student Health - UF Infirmary

CM E 2 | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Prerequisites

Fourth Year Medical Student

Course Description

COURSE GOALS: To introduce students to the interesting and evolving field of Student Health Medicine, combining aspects of Family Medicine, Adolescent Medicine, Sports Medicine, Urgent Care, and Preventive Medicine.

Course Faculty and Staff

- Ronald L Berry MD (Director)

Meeting Place and Time

Student Health Care Center, Infirmary Building, Main Campus. Work Schedule Monday through Friday, 8:00am to 5:00pm.

Course Materials

Selected readings in Student Health.

Additional Information

Student may contact Dr. Berry for more information at 352-294-7475 or rberry@ufl.edu
**Surgical Intensive Care Unit Elective**

ANS E 3 | 4th Year Elective | Anesthesiology | Clinical Science

**Prerequisites**

Third year clerkship

**Course Description**

COURSE GOALS: During this rotation the student will participate as an active member of the Critical Care team. This includes management of specific cases and presentation on daily rounds. During the rotation, ample opportunity is provided for the insertion of various monitoring lines, development of an understanding of fluid and electrolyte balance, and exposure to various forms of nutritional support. Topics for coverage include cardiovascular and respiratory physiology and pharmacology, interpretation of blood gas analysis. The student will also be exposed to various discussions on the treatment of renal failure. Medical Students will be required to take call (including nights and weekends) and to carry a beeper at all times. Any exceptions must be approved in writing by Dr. Layon.

**Course Faculty and Staff**

- Poppy W. Meehan (Course Staff)
- Azra Bihorac MD (Other Faculty)
- Lawrence J Caruso MD (Other Faculty)
- Thomas J Gallagher MD (Other Faculty)
- Carl W Peters MD (Other Faculty)
- Andrea Gabrielli MD (Other Faculty)
- Ettore Crimi MD (Other Faculty)
- Peggy White MD (Other Faculty)
- John Downs MD (Other Faculty)
- Brenda Fahy MD (Director)

**Meeting Place and Time**

Surgical Intensive Care Unit, Shands Teaching Hospital, 0745 on first day or rotation (13-month schedule), Room North Tower 2512 (SICU Conference Room although actually in the CICU)

**Course Materials**

Reading list will be made available

**Surgical Pathology**
PATH E 1 | 4th Year Elective | Pathology | Clinical Science

Prerequisites
Completion of first 2 years of medical school.

Course Description
COURSE GOALS: Introduction to Surgical Pathology techniques, diagnosis and clinical implications. Students work as externs with Pathology Residents and Attendings. Course is available for students who are considering a career in pathology, medical or surgical subspecialities or who want a clinically relevant in depth experience in disease processes. The course can be structured to the student's interests, such as Gynecologic pathology only, or as a mixture of subspecialties.

Course Faculty and Staff

- Lisa Dixon MD (Director)
- Deena Weiss (Course Staff)

Meeting Place and Time
Meeting Place: Stetson Medical Sciences Building, Room M-653
Meeting Time: 9:00AM
Professional dress

Course Materials
Current clinical cases at Shands or GVAMC. Case material includes general surgical pathology and/or subspecialty (GI, GYN, Breast, ENT, GU, Ortho, Neuro) areas. Reference texts provided as necessary.

Additional Information
Please contact Dr. Dixon prior to beginning the rotation to relay areas of interest so the rotation can be structured appropriately.
email: dixolr@pathology.ufl.edu

Thoracic and Cardiovascular Surgery
SUR E 8 | 4th Year Elective | Surgery | Clinical Science

Prerequisites
4th year medical student - completion of 3rd year rotation on General Surgery

Course Description
COURSE GOALS: At the completion of this rotation the student will be able to:

1. Perform detailed admission histories and physical examinations specific to patients who have pulmonary and cardiac disease that require surgical therapy.
2. Identify the indications and potential complications for thoracic and cardiac surgical procedures.
3. Identify the appropriate tests and medications required for assigned patients throughout their course of therapy.
4. Second or first assist in general thoracic and open heart surgical procedures.
5. Correlate the findings from the physical, hemodynamic, laboratory, and other diagnostic tests performed before and after cardiac surgery.
6. Evaluate and predict patient outcomes in response to surgical interventions and pharmacologic manipulations performed in the postoperative period.

Student activities include: Daily patient rounds and conferences, assisting in surgery, diagnostic work-ups, and direct patient care.

Course Faculty and Staff

- Philip P Hess MD (Director)
- Michele Silver (Course Staff)
- Brittany Fink (Course Staff)

Meeting Place and Time

CICU 0600 HRS
SPONSORING UNIT: Department of Surgery, Division of Thoracic and Cardiovascular Surgery
COURSE DIRECTOR: Daniel G. Knauf, M.D., Rm. M-602, (352) 846-0364, Box 100286
COURSE GOALS: At the completion of this rotation the student will be able to:

Student activities include: Daily patient rounds and conferences, assisting in surgery, diagnostic work-ups, and direct patient care.

Course Materials

Current textbooks in thoracic, adult cardiac, and congenital heart surgery. Selected reprints from specialty journals.

Trauma; Surgical Critical Care; and Emergency Surgery

SUR E 14 | 4th Year Elective | Surgery | Clinical Science

Prerequisites

Fourth Year Medical Student

Course Description
Four week course in which student will rotate on the Trauma/Emergency Surgery Service and act as a sub-intern. Daily rounds with residents and attending; bedside surgical procedures in the SICU; operative cases in the OR and the initial management and resuscitation of the severely injured trauma patient will be emphasized.

**Course Faculty and Staff**

- Lawrence Lottenberg MD, FACS (Director)
- Michele Silver (Course Staff)
- John Armstrong MD (Other Faculty)
- Brittany Fink (Course Staff)
- Chasen Croft MD (Co-Director)
- Fitzgerald Casimir MD (Other Faculty)
- Chasen Croft MD (Other Faculty)

**Meeting Place and Time**

5:30 AM in Shands (S), 5W

**Course Materials**

TBA

**Additional Information**

Excellent experience for student interested in surgery; critical care or anesthesia as a career.

**Urology Surgery - Elective**

SUR E 10 | 4th Year Elective | Urology | Clinical Science

**Prerequisites**

Senior medical student status. Non-UF students applying for this rotation must also submit a Letter of Recommendation.

**Course Description**

This course will provide the senior student with a basic understanding of clinical urology as a surgical subspecialty. Student will; 1) participate as a member of the urological team providing inpatient, outpatient and surgical care to patients referred to the urological service.; 2) participate in urological teaching conferences; 3) interact with urological residents and faculty on a daily basis. Psychomotor Domain: 1. Demonstrate proficiency in common intern-level duties including Genitourinary Exam (including male and female exam,DRE, Catheter insertion, basic urological endoscopic techniques and basic suturing skills ; 2. Recognize the role of existing and emerging technology and research in the field and practice of urology.; 3. Reliably use the Internet and electronic tools as a medical resource. Affective Domain: 1.
Expand his/her exposure to and appreciation for a career in urology.; 2. Become more keenly aware of the opportunities available to residents in urology.; 3. Appreciate the influence of translational research as it applies to urology. LEARNING ACTIVITIES: The students who choose this rotation as an elective will participate as a member of a very busy and academic urological service at the University of Florida. He or she will become aware of the daily responsibilities of a urology resident; including education of 3rd year medical students and perioperative care of the surgical patient. Students will be expected to attend all urology related conferences including Didactic resident lectures; GU Tumor Board; Morbidity and Mortality Conference; Urological Imaging Conference; Basic Science Conference and Mortality Conference Pathology Conference and Journal Club. Furthermore; the student will be assisting in the Operating Rooms and seeing patients in clinic. Although the curriculum is flexible; it is expected that the student will prepare for cases and conferences as any other member of the team; and will be held accountable for these. At the conclusion of the 4-week rotation; the student will present a 30-minute slide presentation on some aspect of Urology in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based; and articles from accredited journals should be referenced.

Course Faculty and Staff

- Philipp Dahm MD (Director)
- Brittany Fink (Course Staff)
- Xanthe Morris (Course Staff)

Meeting Place and Time

Morning rounds usually begin on the wards at 6:00 (contact Cissy Layman for details)
Urology faculty and resident offices are located on the second floor of the Health Science Center (Room N-203)

Course Materials

No specific text is required - recommended texts include; 1) Campbell's Urology (4 volumes) - Available for reference in the Div. Library; 2) Hinman's Atlas of Urologic Surgery (useful in preparing for individual surgical cases) - Available in the Div. library; 3) Smith's General Urology (a urologic overview readable in the four week rotation); 4) AUA Update Series (an up to date; concise comprehensive review of selected urologic topics) - Available in the Div. library
5) Students are asked to complete or show evidence of prior completion of the online national medical student curriculum in urology available at www.auanet.org (under the Education and Meetings tab and then under Online Education.

Additional Information
Cissy Layman is the Resident Coordinator for the Department of Urology and can be reached at (352) 273-8634, Fax: (352) 273-8604, or email Cissy.Layman@urology.ufl.edu.

Vascular Surgery

SUR E 21 | 4th Year Elective | Surgery | Clinical Science

Prerequisites

3rd year rotation on General Surgery

Course Description

COURSE GOALS: At the completion of this rotation the student will be able to: 1. Perform detailed admission histories and physical examinations specific to patients with vascular disease who require surgical and/or medical therapy. 2. Identify the indications and potential complications for vascular surgical procedures. 3. Identify the appropriate tests and medications required for assigned patients throughout their course of therapy. 4. Second or first assist in general vascular surgical procedures. 5. Correlate the findings from the physical, hemodynamic, laboratory, and other diagnostic tests performed before and after vascular surgery. 6. Evaluate and predict patient outcomes in response to surgical interventions and pharmacologic manipulations performed in the postoperative period. Student activities include: Daily patient rounds and conferences, assisting in surgery, diagnostic work-ups, and direct patient care.

Course Faculty and Staff

- Robert J Feezor MD (Director)
- Michele Silver (Course Staff)
- Brittany Fink (Course Staff)

Meeting Place and Time

Call the Vascular Surgery Office (273 5484) or page Dr. Feezor (413 0428) for information.

Course Materials

Material will be provided from the following:
Selected readings from Journal of Vascular Surgery and other vascular specialty journals.

Additional Information
The Shands Vascular surgery service is a busy, tertiary care service that has a heavy operative load. The 4th year student rotating on the service will function as a junior resident, including operating with the faculty and fellows as well as supervising the 3rd year medical students and assisting the interns.

Women's Health Elective
MED E 36 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites
Successful completion of third year of medical school

Course Description
Students will gain a perspective on unique aspects of issues affecting women through hands-on experience in the ambulatory setting and evaluation of management of common medical conditions, such as diabetes and hypertension, as well as health maintenance visits. Furthermore, they will have didactic as well as interactive scheduled sessions with course faculty to discuss important topics in women's health, including health promotion and disease prevention, breast health, reproductive health, and mental health. Students will be able to choose to present a case presentation or to submit a clinical vignette at the end of this elective to demonstrate an interesting clinical case encountered during the elective or learning objective pertinent to women’s health.

Course Faculty and Staff
- Maryam Sattari MD, MS (Director)
- Jenika Christmas (Course Staff)

Meeting Place and Time
Contact Dr. Maryam Sattari (Maryam.sattari@medicine.ufl.edu) (265-0651) one week prior to course for meeting time and location and schedule.

Course Materials
Handouts provided as needed

Updated 7/18/13