



*Department of Reproductive Biology
Case School of Medicine*

*Department of Obstetrics and Gynecology
University Hospitals*

Medical Student Electives in Obstetrics and Gynecology

Title: Obstetrics Acting Internship
Course No: RBIO 0103
Sponsor: Angelina Gangestad, M.D.
Department: Ob/Gyn
Division: General Obstetrics and Gynecology

Description: This is an advanced elective focused on antepartum and intrapartum care of obstetric patients. The student will be assuming responsibilities approximating those of an intern, under the direct supervision of senior level residents and faculty.

Objective:

1. To improve the student's knowledge and skills in Obstetrics.
2. To provide the student with more responsibility, and improve their clinical decision making, in caring for the obstetric patient.

Duties: Acting interns will be considered part of the labor and delivery team. They will be expected to care for antepartum, intrapartum, and post-partum patients under the direct supervision of the senior resident or attending. They will be assigned to resident clinic 1-2 sessions per week for ambulatory obstetrics. Night call will be a minimum of once/week, including weekends.

Prerequisites: All students must have completed their core clerkships in Ob/Gyn, Internal Medicine, and Surgery.

Title: Gynecologic Surgical Specialties Elective
Course No: RBIO 0101
Sponsor: Jay S. Pinkerton, M.D.
Department: Ob/Gyn
Division: General Obstetrics and Gynecology

Description: This elective is for students who have completed the basic core clerkships listed below and desire a more intense gynecology and gynecologic surgery experience.

Duties: The student will become part of the gynecology service team, scrub in on a range of gynecological surgeries, see patients in the office with an attending, and rotate on urogynecology with Dr. Mahajan (if desired). Please call Dr. Pinkerton before starting to state your preferences and to develop personalized learning objectives.

Prerequisites: Completed clerkships in Ob/Gyn, Medicine, and Surgery.

Title: Gynecologic Oncology Elective
Course No: RBIO 0102
Sponsor: Kristine Zanotti, MD
Department: Ob/Gyn
Division: Gynecologic Oncology
Available to: Years 3 & 4
Course Length: 1 month

Description: This elective is for students who have completed the basic core clerkship in OB/GYN and are interested in enhancing their exposure to the subspecialty of Gynecologic Oncology.

Objective: To provide exposure to both inpatient and outpatient management issues in the care of patients with gynecologic cancer and pre-malignant conditions. The experiences gained in this elective are intended to broaden the student's knowledge base and encourage independent and critical thinking. Students choosing this elective will be participating in aspects of inpatient and outpatient care that emphasize problem-solving, efficiency, clinical judgment and the independent development of patient assessments and plans.

Duties: Students choosing this elective will be considered part of the gynecologic oncology team. Time will be spent with a Gynecologic Oncology attending in his/her clinic and assisting them with surgery. In clinic, the student will be encouraged to see patients independently, present their H&P formally to the attending and consider a patient care plan. Inpatient experience will be gained in the care of postoperative patients as well as in managing complications of cancer and cancer therapies. Responsibilities will include caring for selected inpatients on the Gynecologic Oncology service (ideally, patients previously seen in clinic or in the OR) and participation/presentation in daily attending rounds and weekly Tumor Board Conference.

Prerequisite: Completion of Ob/Gyn, Medicine, and Surgery core clerkship.

Title: Reproductive Biology and Infertility
Course No: RBIO 0104
Sponsor: Stacie Weil, M.D.
Department: Ob/Gyn
Division: Reproductive Endocrinology & Infertility

Description: The student will follow attending and resident (when one is on service) in seeing patients in an outpatient setting. They will also assist in operative cases. They will get to attend IVF procedures and may spend time in the IVF laboratory.

Objective: To provide a more comprehensive view of the subspecialty of Reproductive Endocrinology and Infertility not included in the general Obstetrics and Gynecology clerkship. Students will see a variety of infertility, menopausal and endocrine issues addressed both in the office and in the operating room. They will learn basic algorithms of problem solving in these areas. They will meet weekly with the sponsor to discuss topics and questions.

Duties: Students will be asked to read up on 1-2 specific topics per week. They will be asked to present patients, interpret laboratory results and participate in decision making at rounds each day. They will be instructed for each weekday when to arrive for office hours, to the operating room or the IVF Suite. There will be no call for this rotation.

Prerequisites: Satisfactory completion of core Obstetrics and Gynecology clerkship.

Title: Prenatal Ultrasound/Genetics
Course No: RBIO 0105
Sponsor: Noam Lazebnik, M.D.
Department: Ob/Gyn
Division: Maternal Fetal Medicine
Course Length: 2 or 4 weeks

Description: The student will observe highly sophisticated fetal ultrasound studies done in order to rule out fetal malformations, including 3-D and 4-D studies, ultrasound derived fetal well being studies, fetal vascular Doppler

studies, invasive ultrasound guided procedures and first and second trimester screening studies to rule out fetal chromosome abnormalities.

Objective:

1. To teach medical students basic and advanced principles of prenatal diagnosis.
2. To teach medical students the rationale, indications, and utilization of state of the art ultrasound and molecular technologies utilized in prenatal diagnosis.
3. At the conclusion of the rotation, the students should have accumulated enough knowledge to enable them to correctly interpret prenatal ultrasound and molecular (DNA) reports.

Duties:

1. To show every day on time (08:00) to the prenatal ultrasound unit.
2. To attend ALL relevant prenatal meetings.
3. The students will be given reading material each week prior to the rotation to enhance their knowledge base prior to the beginning of the rotation.
4. The students are expected to actively participate in taking prenatal history and to present pertinent and relevant medical information retrieved from the medical records.
5. Every day, at least one case should be presented and discussed in details by the student. In the first half of the rotation, mainly uncomplicated cases would be discussed. In the second half, complex cases would be discussed. The student would be given enough time to prepare the case.
6. The students would be encouraged to perform short supervised ultrasound studies.

Prerequisites: Ideally students who already have done their Ob/Gyn clerkship would be considered for this rotation. Offered in two weeks or four week blocks.

Title: Reproductive Immunology

Course No: PATH 419

Sponsor: Neal S. Rote, Ph.D.

Department: Ob/Gyn

Division: Research

Course offered in Spring quarter, every other year (next in 2009) for 3 credits

Description: This will be a lecture and literature-based course that will include classic and recent publications. The course will cover subjects related to the cellular and molecular biology of fertilization and development of the placenta and fetus in humans and how this process is affected by the maternal immune system. Specific areas of discussion will include mechanisms by which the antigenically foreign placenta and fetus create an apparent state of maternal immune tolerance, the physiologic role of endogenous retroviruses in trophoblast differentiation, the participation of maternal and placental cytokines in pregnancy, the effects of maternal alloimmune and autoimmune responses on differentiation of the trophoblast and development of the placenta/fetus, the development and effects of fetal lymphocyte microchimerism in maternal tissues, and a variety of current controversies in Reproductive Immunology.

Objective: To provide a more complete understanding of the immunological relationship between the mother and her fetus and the clinically-relevant complications of pregnancy that may arise from a breakdown in that relationship.

Duties: The students will be assigned a great deal of out-of-class reading of current review and research articles. They will be expected to come to class prepared for a detailed and Socratic dialogue with the instructor and fellow students. At the end of the course, each student must present a 30 minute talk on a pre-approved topic in Reproductive Immunology and submit a short paper on that topic.

Prerequisites: PATH 416 or an equivalent general Immunology course, or permission of the instructor.
