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SENIOR SUB-INTERNSHIP CATALOG

2007-2008

**UNIVERSITY OF MARYLAND
SCHOOL OF MEDICINE**

Senior Sub-Internship Catalog

University of Maryland School of Medicine

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ALL STUDENTS MUST SPEND ONE MONTH AT ONE OF THE PRIMARY TEACHING HOSPITALS (University of Maryland, VA Medical Center or Mercy Medical Center)

Please Note: Core clerkships in each specialty are to be completed before you will be allowed to do a sub-internship in that specialty, unless otherwise noted.

Sub-I's as Electives: Only two sub-internships will be assigned during senior course scheduling. If you wish to take an additional sub-internship as an elective, you should arrange it through the department by doing an add/drop form after the scheduling process for electives has been completed.

Add/Drop: Those students wishing to drop a sub-internship after it has been scheduled **MUST FIND A REPLACEMENT STUDENT** *and* get the Course Coordinator's approval **ONE MONTH** prior to the scheduled rotation.

ANES 548-01

Site: University of Maryland
Surgical Intensive Care Unit, 4 East Gudelsky

Department: Anesthesiology and Surgery

Principal Preceptor: Dr. Mary Njoku, (410) 328-1239

Title of Course: Sub-Internship in Surgical Critical Care

Description and Goals:

This course is a joint offering from the departments of anesthesiology and surgery. The goal of this course is to provide the student with sound physiologic background and clinical experience for the effective evaluation and management of critically ill patients. The student will participate in daily work and teaching rounds and have responsibility for the care of assigned patients under the direction of the SICU physician team. Students will admit patients to the unit, perform history, physical and laboratory assessments, and present patients on rounds and provide ongoing care. The student will perform any indicated procedures for his/her patient under unit physician supervision. The student will attend unit teaching conferences and relevant institutional conferences, e.g. weekly anesthesiology or surgery grand rounds. During the rotation the student will learn about the clinical evaluation and management of various critical care problems including shock, heart failure, myocardial ischemia/infarction, respiratory failure, ARDS, renal failure, hepatic failure, GI bleeding, sepsis, multi-organ failure, and ethical issues. Experience with complex surgical problems pertaining to liver, kidney, and pancreas transplantation, major vascular, complex GI, urologic, orthopedic, neurosurgery, trauma, gynecology and obstetrics is available in the SICU. The student will become familiar with techniques such as fluid resuscitation, transfusion therapy, vasoactive drug therapy, invasive hemodynamic monitoring, airway management, ventilator support, renal replacement therapy, antibiotic usage and blood gas analysis.

Duration: 4 weeks

Hours of Participation: Full-time, Monday through Friday (morning and afternoon rounds). Weekends (morning rounds). Overnight call 6-7 times per month.

Number of Students: 2 per rotation

Contact Person: Mrs. Maria Purcell
22 S. Greene Street, Room S8B12
Baltimore, MD 21201
Phone: (410) 328-1239
Fax: (410) 328-0546 Email: mpurcell@anes.umm.edu

Dr. William Chiu for students applying for surgery post-graduate programs, e-mail: wchiu@umm.edu

Prerequisites: Junior Internal Medicine and Junior General Surgery

FAPH 548-01

Site: Family Medicine In-Patient Service
University of Maryland Hospital

Department: Family Medicine

Principal Preceptor: Richard Colgan, M.D.

Title of Course: Student Internship in Family Medicine

Description and Goals:

The Family Medicine Inpatient Service is an active service that admits patients from the Family Health Center as well as unassigned patients from the Emergency Room. There are usually at least 10 patients on the service at any one time. Patients on our service have a wide variety of medical problems and range in age from newborn to elderly, and include OB and post-partum patients. Patients are also followed in telemetry beds. The staff includes an attending physician from the Family Medicine faculty, one first, one second, and one third year resident, and one or two fourth year medical students. There are many educational opportunities that focus on patient care, including formal attending rounds every day, daily morning report, weekly Grand Rounds and behavioral rounds.

Our goals are:

1. To function as a teaching model for residents and medical students in the care of inpatients using the Family Medicine approach (holistic care, continuity of care, patient education, interdisciplinary team approach, family needs).
2. To provide continuity of care for Family Medicine patients.
3. To augment student's skills and knowledge in caring for hospitalized patients.

Responsibilities:

The senior resident who is in charge of the service will assign patients to the interns and student(s). Students act as sub-interns and manage their patients completely from admission history and physical to discharge. Any procedures that need to be done are the student's responsibility. Close supervision is always available.

Hours of Participation: 7:30 a.m. - 5:00 p.m. weekdays, every fourth night call

Number of Students: Two per rotation (maximum)

Prerequisites: Students must have completed **all of the seven (7)** required Junior Clerkships.

Contact Person: Denise Estes
Phone: (410) 328-3525
FAX: (410) 328-8726
E-mail: destes@som.umaryland.edu

Additional Information: Student(s) accepted for this sub-internship will need to find an acceptable replacement should he/she decide to drop the sub-internship.

Maximum number of days allowed to be missed due to Residency Interviews is two.

**Medicine Sub-Internships for University of Maryland Hospital
and the VA Medical Center
Various Codes**

Site: University of Maryland Hospital

Principal Preceptor: Philip A. Mackowiak, M.D.

Title of Course: Student Internship in Medicine
If you wish to make any changes, add or delete a rotation, contact Cathy Winks at (410) 328-5756.

Description and Goals:

The senior medical clerkship provides an excellent opportunity for those students who are ready to assume direct responsibility for patient care. Students take histories, perform physical examinations, carry out and interpret diagnostic tests, formulate and institute treatment plans, perform procedures under supervision, and conduct day-to-day follow-up of all patients admitted to them. Student interns work as an integral member of the ward team.

Hours of Participation:

The workday begins at 7:00 a.m. with Morning Rounds. Teaching Rounds with the attending physician follow and during the day new admissions are worked up based on the on-call schedule. Sign-out rounds occur at the end of the day where the day's work is reviewed and evaluated. Student interns are expected to take call every fourth night and have four days off/month.

Additional Information:

Teaching conferences include Attending Rounds seven days per week, Morning Report (Mondays-Fridays), Ambulatory Medicine Conference on Monday, Medical Grand Rounds and CPC's on Wednesday, and Journal Club. The Chairman of the Department of Medicine at University of Maryland Hospital and the Chief of the Medical Service at the VA hold a special clinical conference weekly for the student interns. Subinterns are also welcome to attend all noon resident conferences during the week.

The subinternships in internal medicine are as follows:

Site	Course #	Number of Students/Rotation
University Hospital		
General Medicine	MEDC 548-01	5
MICU	MICU 548-01	1
Complex Cardiology Service	MCCS 548-01	1
Primary Cardiology Service	MPCS 548-01	1
Cancer Center	MCAC 548-01	2
Mercy Medical Center		
General Medicine	MEDC 548-02	10
VA Medical Center		
General Medicine	MEDC 548-07	4
CCU/Telemetry	MEDC 549-07	1
MICU	MICU 548-07	1

MEDC 548-01

Site: University of Maryland Medical Center

Department: Medicine

Principal Preceptor: Philip A. Mackowiak, M.D.

Title of Course: Clinical Medicine

Description and Goals:

The senior medicine clerkship is designed to prepare students to assume direct responsibility for the care of hospitalized medical patients. Students take histories, perform physical examinations, carry out and interpret diagnostic tests, formulate and institute treatment plans, perform procedures under supervision and conduct day-to-day follow-up of all patients admitted to them. Student interns work as an integral member of the ward team. Students are assigned to Med 1, 2, 3, 4, or Med-ID-Silver.

Hours of Participation:

The workday begins at 7:00 a.m. with Morning Rounds. Teaching Rounds with the attending physician follow and during the day new admissions are worked up based on the on-call schedule. Sign-out rounds occur at the end of the day where the day's work is reviewed and evaluated. Student interns are expected to take call every fourth night and have four days off/month.

Additional Information:

Teaching conferences include Attending Rounds seven days per week, Morning Report (Mondays-Fridays), Ambulatory Medicine Conference on Monday, Medical Grand Rounds and CPC's on Wednesday, and Journal Club. The Chairman of the Department of Medicine at University of Maryland Hospital and the Chief of the Medical Service at the VA hold a special clinical conference weekly for the student interns. Subinterns are also welcome to attend all noon resident conferences during the week.

Number of Students: 5 per rotation

Contact Person: Cathy Winks
Room N3E09, UMH
Phone: (410) 328-5756
Fax: (410) 328-0267

Additional Information:

All students electing a medical subinternship are required to spend at least one month at one of the primary teaching hospitals (University Hospital, the VA Medical Center or Mercy Medical Center).

Schedule change requests must be submitted no later than one month prior to the start of the rotation. It will NOT be possible to change a rotation after this time.

MICU 548-01

Site: University of Maryland Medical Center
Department: Medicine
Principal Preceptor: Carl Shanholtz, M.D. and Philip Mackowiak, MD
Title of Course: Critical Care Medicine (MICU)

Description and Goals:

The goal of this rotation is to learn the Principals of critical care medicine. Students will learn how to care for patients with a variety of critical care illnesses, including pulmonary, kidney, liver, heart and central nervous system failure. Students will also learn the Principals of ventilator and hemodynamic management, develop expertise in interpreting x-rays of critically ill patients, and understand the ethical issues associated with caring for the critically ill patient. Finally, students will learn how to perform a variety of procedures, including central line insertion and endotracheal intubation.

Hours of Participation: Full-time on call rotation, with overnight call every fourth night.
Number of Students: 1 per rotation
Contact Person: Cathy Winks
Room N3E09, UMH
Phone: (410) 328-5756
Fax: (410) 328-0267

Additional Information:

All students electing a medical subinternship are required to spend at least one month at one of the primary teaching hospitals (University Hospital, the VA Medical Center or Mercy Medical Center).

Schedule change requests must be submitted no later than one month prior to the start of the rotation. It will NOT be possible to change a rotation after this time.

MCCS 548-01

Site: University of Maryland Medical Center
Department: Medicine
Principal Preceptor: Philip A. Mackowiak, M.D.
Title of Course: Student Internship on the Complex Cardiology Service (CCS)

Description and Goals:

The course objectives are: 1) to have the student understand the physiology of ischemic heart disease, arrhythmias and congestive heart failure; and 2) to understand the acute treatment of severely ill patients with these diseases.

The student will act as an intern in the Cardiac Care Unit. This will include morning rounds, at which time the student will be expected to present new patients and follow-up previously presented patients. Students will work up patients, perform indicated procedures under supervision, and order appropriate tests and treatments. The student will be supervised by an attending physician, cardiology fellow and resident. Attendance at cardiology conferences is required.

Hours of Participation: Full-time on call rotation, with overnight call every fourth night.

Number of Students: 1 per rotation

Contact Person: Cathy Winks
Room N3E09, UMH
Phone: (410) 328-5756
Fax: (410) 328-0267

Additional Information:

Teaching conferences include Attending Rounds seven days per week, Morning Report (Mondays-Fridays), Ambulatory Medicine Conference on Monday, Medical Grand Rounds and CPC's on Wednesday, and Journal Club. The Chairman of the Department of Medicine at University of Maryland Hospital and the Chief of the Medical Service at the VA hold a special clinical conference weekly for the student interns. Sub-interns are also welcome to attend all noon resident conferences during the week.

All students electing a medical subinternship are required to spend at least one month at one of the primary teaching hospitals (University Hospital, the VA Medical Center or Mercy Medical Center). Schedule change requests must be submitted no later than one month prior to the start of the rotation. It will NOT be possible to change a rotation after this time.

MPCS 548-01

Site: University of Maryland Medical Center
Department: Medicine
Principal Preceptor: Philip A. Mackowiak, M.D.
Title of Course: Student Internship in the Primary Cardiology Service (PCS)

Description and Goals:

The course objectives are: 1) to have the student understand the physiology of ischemic heart disease, arrhythmias and congestive heart failure; and 2) to understand the acute and subacute treatment of severely ill patients with these diseases.

The student will act as an intern in the Primary Cardiology Service, which cares for patients in both the CCu and the step-down unit. This will include morning rounds, at which time the student will be expected to present new patients and follow-up previously presented patients. Students will work up patients, perform indicated procedures under supervision, and order appropriate tests and treatments. The student will be supervised by an attending physician, cardiology fellow and resident. Attendance at cardiology conferences is required.

Hours of Participation: Full-time on call rotation, with overnight call every fourth night.

Number of Students: 1 per rotation

Contact Person: Cathy Winks
Room N3E09, UMH
Phone: (410) 328-5756
Fax: (410) 328-0267

Additional Information:

Teaching conferences include Attending Rounds seven days per week, Morning Report (Mondays-Fridays), Ambulatory Medicine Conference on Monday, Medical Grand Rounds and CPC's on Wednesday, and Journal Club. The Chairman of the Department of Medicine at University of Maryland Hospital and the Chief of the Medical Service at the VA hold a special clinical conference weekly for the student interns. Subinterns are also welcome to attend all noon resident conferences during the week.

All students electing a medical subinternship are required to spend at least one month at one of the primary teaching hospitals (University Hospital, the VA Medical Center or Mercy Medical Center).

Schedule change requests must be submitted no later than one month prior to the start of the rotation. It will NOT be possible to change a rotation after this time.

MCAC 548-01

Site: University of Maryland Medical Center
Greenebaum Cancer Center

Department: Medicine

Principal Preceptor: Aaron Rapoport, M.D. and Philip Mackowiak, M.D.

Title of Course: Medical Oncology

Description and Goals:

Students will work closely with faculty, residents and fellows in the care of patients with malignant diseases. Students will learn about the epidemiology, clinical manifestations, treatment and complications of the most common solid and hematologic malignant neoplasms. Students are assigned to either the Leukemia or Solid Tumor service.

Students will:

- 1) Assist in the care of patients with blood-related malignancies and/or solid tumors,
- 2) Develop skills in blood smear interpretation, 3) Perform and interpret bone marrow examinations,
- 4) Become familiar with the role of marrow/stem cell transplantation in the treatment of malignant neoplasms.

Hours of Participation:

Full-time on call rotation, with overnight call every fourth night. The workday begins at 7:00 a.m. with Morning Rounds. Teaching Rounds with the attending physician follow and during the day new admissions are worked up based on the on-call schedule. Sign-out rounds occur at the end of the day where the day's work is reviewed and evaluated. Student interns are expected to take call every fourth night and have four days off/month.

Additional Information:

Teaching conferences include Attending Rounds seven days per week, Morning Report (Mondays-Fridays), Ambulatory Medicine Conference on Monday, Medical Grand Rounds and CPC's on Wednesday, and Journal Club. The Chairman of the Department of Medicine at University of Maryland Hospital and the Chief of the Medical Service at the VA hold a special clinical conference weekly for the student interns. Subinterns are also welcome to attend all noon resident conferences during the week.

Number of Students: 2 per rotation

Contact Person: Cathy Winks
Room N3E09, UMH
Phone: (410) 328-5756
Fax: (410) 328-0267

Additional Information:

All students electing a medical subinternship are required to spend at least one month at one of the primary teaching hospitals (University Hospital, the VA Medical Center or Mercy Medical Center). Schedule change requests must be submitted no later than one month prior to the start of the rotation. It will NOT be possible to change a rotation after this time.

MEDC 548-02

Site: **Mercy Medical Center**
301 St. Paul Place
Baltimore, MD 21202

Department: Medicine

Title of Course: Student Internship in Medicine

Description and Goals:

This program in Internal Medicine offers students an in-depth experience caring for patients with a wide range of pathology in an efficiently run community hospital. Senior students function as vital members of patient care teams. Patient care teams are comprised of two or three students and three or four first year residents supervised by a senior resident and a full-time teaching attending. The housestaff program is integrated with the University of Maryland; thus students are supervised by University of Maryland residents. Students are given ample opportunity to learn and perform bedside diagnostic procedures. They are expected to participate in Morning Report and to attend Journal Club, Grand Rounds and subspecialty teaching conferences. Experience in caring for both service and private patients is provided. The student-intern is encouraged to take primary initiative in clinical decision making and general care of his/her patients, be they service or private.

Each student-intern cares for four to seven patients at any one time. Night call is every fourth to sixth night, depending on staffing. Sunday through Thursday, a night float team arrives at 9 p.m. Phlebotomy and fluid teams, patient transportation services, efficient clinical laboratory and radiology departments, and other ancillary services allow students to use their time for meaningful patient care activities.

Meals, parking, and on-call rooms are provided by the hospital.

Number of Students: 10 per rotation

Principal Preceptors: Dr. Evonne Fontanilla - through June, 2007
Dr. Yanis Bellil – July, 2007 through June, 2008
Phone: (410) 332-9463
Fax: (410) 962-8391

Additional Information:

This rotation allows students to participate in a University training program conducted in a community hospital atmosphere. Because students are incorporated into the service schedules well in advance of the rotation, those who wish to drop this elective must contact the Chief Resident and are expected to find a replacement or honor their obligation. In addition, schedule requests should be submitted as soon as possible to the chief resident and no less than one (1) month in advance.

MEDC 548-07

Site: Baltimore VA Medical Center

Department: Medicine

Principal Preceptor: Philip A. Mackowiak, M.D.

Title of Course: Clinical Medicine

Description and Goals:

The senior medicine clerkship is designed to prepare students to assume direct responsibility for the care of hospitalized medical patients. Students take histories, perform physical examinations, carry out and interpret diagnostic tests, formulate and institute treatment plans, perform procedures under supervision and conduct day-to-day follow-up of all patients admitted to them. Student interns work as an integral member of the ward team. Students are assigned to the Green, Orange, Purple or Yellow teams.

Hours of Participation:

The workday begins at 7:00 a.m. with Morning Rounds. Teaching Rounds with the attending physician follow and during the day new admissions are worked up based on the on-call schedule. Sign-out rounds occur at the end of the day where the day's work is reviewed and evaluated. Student interns are expected to take call every fourth night and have four days off/month.

Additional Information:

Teaching conferences include Attending Rounds seven days per week, Morning Report (Mondays-Fridays), Ambulatory Medicine Conference on Monday, Medical Grand Rounds and CPC's on Wednesday, and Journal Club. The Chairman of the Department of Medicine at University of Maryland Hospital and the Chief of the Medical Service at the VA hold a special clinical conference weekly for the student interns. Subinterns are also welcome to attend all noon resident conferences during the week.

Number of Students: 4 per rotation

Contact Person: Cathy Winks
Room N3E09, UMH
Phone: (410) 328-5756
Fax: (410) 328-0267

Additional Information:

Learning during duty hours will be by preceptor and problem-oriented record keeping. Students will be taught to be skilled in drawing blood, starting IV's, examining body fluids, taking and interpreting EKGs and other laboratory test results required for optimal patient care.

All students electing a medical subinternship are required to spend at least one month at one of the primary teaching hospitals (University Hospital, the VA Medical Center or Mercy Medical Center). Schedule change requests must be submitted no later than one month prior to the start of the rotation. It will NOT be possible to change a rotation after this time.

MEDC 549-07

Site: Baltimore VA Medical Center

Department: Medicine

Principal Preceptor: Philip A. Mackowiak, M.D.

Title of Course: Cardiology (CCU/Telemetry)

Description and Goals:

The senior medicine clerkship is designed to prepare students to assume direct responsibility for the care of hospitalized medical patients on Combination Ward and CCU. Students take histories, perform physical examinations, carry out and interpret diagnostic tests, formulate and institute treatment plans, perform procedures under supervision and conduct day-to-day follow-up of all patients admitted to them. Student interns work as an integral member of the ward team. Students are assigned to the Blue team.

Hours of Participation:

The workday begins at 7:00 a.m. with Morning Rounds. Attending Rounds with the attending physician follow and during the day new admissions are worked up based on the on-call schedule. Sign-out rounds occur at the end of the day where the day's work is reviewed and evaluated. Student interns are expected to take call every fourth night and have four days off/month.

Additional Information:

Teaching conferences include Attending Rounds seven days per week, Morning Report (Mondays-Fridays), Ambulatory Medicine Conference on Monday, Medical Grand Rounds and CPC's on Wednesday, and Journal Club. The Chairman of the Department of Medicine at University of Maryland Hospital and the Chief of the Medical Service at the VA hold a special clinical conference weekly for the student interns. Subinterns are also welcome to attend all noon resident conferences during the week.

Number of Students: 1 per rotation

Contact Person: Cathy Winks
Room N3E09, UMH
Phone: (410) 328-5756
Fax: (410) 328-0267

Additional Information:

Learning during duty hours will be by preceptor and problem-oriented record keeping. Students will be taught to be skilled in drawing blood, starting IV's, examining body fluids, taking and interpreting EKGs and other laboratory test results required for optimal patient care.

MICU 548-07

Site: Baltimore VA Medical Center

Department: Medicine

Principal Preceptor: Philip A. Mackowiak, M.D.

Title of Course: Care Medicine (MICU)

Description and Goals:

The senior medicine clerkship is designed to prepare students to assume direct responsibility for the care of hospitalized medical patients in the Medical Intensive Care Unit. Students take histories, perform physical examinations, carry out and interpret diagnostic tests, formulate and institute treatment plans, perform procedures under supervision and conduct day-to-day follow-up of all patients admitted to them. Student interns work as an integral member of the ward team. Students are assigned to the Pink team.

Hours of Participation:

The workday begins at 7:00 a.m. with Morning Rounds. Attending Rounds with the attending physician follow and during the day new admissions are worked up based on the on-call schedule. Sign-out rounds occur at the end of the day where the day's work is reviewed and evaluated. Student interns are expected to take call every fourth night and have four days off/month.

Additional Information:

Teaching conferences include Attending Rounds seven days per week, Morning Report (Mondays-Fridays), Ambulatory Medicine Conference on Monday, Medical Grand Rounds and CPC's on Wednesday, and Journal Club. The Chairman of the Department of Medicine at University of Maryland Hospital and the Chief of the Medical Service at the VA hold a special clinical conference weekly for the student interns. Subinterns are also welcome to attend all noon resident conferences during the week.

Number of Students: 1 per rotation

Contact Person: Cathy Winks
Room N3E09, UMH
Phone: (410) 328-5756
Fax: (410) 328-0267

Additional Information:

Learning during duty hours will be by preceptor and problem-oriented record keeping. Students will be taught to be skilled in drawing blood, starting IV's, examining body fluids, taking and interpreting EKGs and other laboratory test results required for optimal patient care.

All students electing a medical subinternship are required to spend at least one month at one of the primary teaching hospitals (University Hospital, the VA Medical Center or Mercy Medical Center). Schedule change requests must be submitted no later than one month prior to the start of the rotation. It will NOT be possible to change a rotation after this time.

PEDI 548-01

Site: University of Maryland Hospital
Department: Pediatrics
Principal Preceptor: Jack Gladstein, M.D., Inpatient Director
Title of Course: Inpatient Sub-Internship

Description and Goals:

Seniors doing student internships with the Pediatric Department are assigned to the pediatric ward. This ward team cares for all of the general pediatric patients. One subintern will be assigned to the general team and one will be assigned to the specialty team, which takes care of primarily Hematology/Oncology, Renal and Pulmonary patients. Each student intern is an integral part of the ward staff, composed of the resident, one intern and several junior students, and are assigned their own group of patients to work-up, follow and treat under direct supervision of the ward resident and attending physician. He/She actively participates in ward rounds and conferences. Night call is every fourth night. Overall, the rotation gives the student a chance to have primary responsibility for the care of the children he/she admits and serves as excellent preparation for an internship in pediatrics or other specialties. In addition, special emphasis is placed on honing the student's communication and professionalism skills, including direct observation of a History and Physical Examination by the teaching attending. Students are expected to be present at 8:00 a.m. on the first day of the rotation. Days off for interviewing must be cleared with the Inpatient Director well in advance. During the rotation, Dr. Gladstein, Sub-I Director meets with all Sub-Is every Wednesday at 3:00 p.m. in his office.

Duration: 4 weeks
Hours of Participation: As needed
Number of Students: 2 per rotation
Location: University Hospital
5th Floor, Ward 5A/B/C
Availability: Academic weeks 1-44
Contact (Coordinator): Pat Schmidt
22 S. Greene Street, Room N5W56
Baltimore, MD 21201
Phone: (410) 328-6662
Fax: (410) 328-0646
E-mail: pschmidt@peds.umaryland.edu

Additional Comments:

Because students are incorporated into the call schedule well in advance of the rotation, those who wish to drop this sub-internship **can drop the course with the preceptor's permission at a minimum of ONE MONTH prior to the scheduled rotation.**

NICU 548-01

Site: University of Maryland Hospital
Department: Pediatrics
Principal Preceptor: Renee Fox, M.D., Director of Neonatology
(410) 328-6356
Title of Course: Neonatology Sub-Internship

Description and Goals:

The goal of a rotation in neonatology is to allow the student to learn the fundamentals of fetal pathophysiology and aid in understanding the total care of the normal newborn, the problems of the sick and immature newborn, and current methods of treatment. During the rotation, the student will serve as primary caretaker of one to two sick newborns at a time in the NICU, under close supervision, allowing students to gain first-hand knowledge of neonatal disease and acquire skills for procedures and resuscitation. During this rotation, students will receive both bedside and didactic teaching of neonatology in the nursery. At the end of the rotation, the student will be expected to prepare a discussion on an area of neonatal medicine that interests the student. Subintern will take call every fourth night with a third year resident. During the rotation, Dr. Gladstein, Sub-I Director meets with all Sub-Is every Wednesday at 3:00 p.m. in his office.

Duration: 4 weeks
Hours of participation: Weekdays, 7 a.m. – 5 p.m.
Night call to 10 p.m.
Number of students: 1 per rotation
Location: University Hospital
South Hospital, 6th Floor, Wing D
Availability: Academic weeks 1-44
Contact (Coordinator): Pat Schmidt
22 S. Greene Street, Room N5W56
Baltimore, MD 21201
Phone: (410) 328-6662
Fax: (410) 328-0646
E-mail: pschmidt@pediatrics.umaryland.edu

Additional Comments:

Because students are incorporated into the call schedule well in advance of the rotation, those who wish to drop this sub-internship **can drop the course with the preceptor's permission at a minimum of ONE MONTH prior to the scheduled rotation.**

NICU 548-02

Site: Mercy Medical Center
Department: Pediatrics
Principal Preceptor: Dr. Susan Dulkerian
Title of Course: Neonatology Sub-Internship

Description and Goals:

The student is integrated into the health care team assuming primary responsibility for 3-4 sick newborns under the supervision of fellows and faculty attendings. Students will be expected to attend problem deliveries and learn some basic skills in neonatal resuscitation including completion of the Neonatal Resuscitation Program of the Academy of Pediatrics. The experience of providing care to critically ill premature and full term infants will allow the student to focus on basic pathophysiology particularly as it applies to fluids and electrolytes and pulmonary mechanics with emphasis placed on the interpretation of arterial blood gasses. The day begins with work rounds at 7:30 a.m. with the attending. Sign-out rounds occur at approximately 5:00 p.m. Subintern will take every fourth night with a third year resident. During the rotation, Dr. Gladstein, Sub-I Director meets with all Sub-Is every Wednesday at 3:00 p.m. in his office.

Duration: 4 weeks
Hours of Participation: See description
Number of students: 1 per rotation
Location: Mercy Medical Center
301 St. Paul Place – 17th Floor
Baltimore, MD 21202
Availability: Academic weeks 1-44
Contact at Mercy: Susan McLain
Phone: (410) 332-9594
Fax: (410) 783-5575
Contact (Coordinator): Pat Schmidt
22 S. Greene Street, Room N5W56
Baltimore, MD 21201
Phone: (410) 328-6662
Fax: (410) 328-0646
E-mail: pschmidt@peds.umaryland.edu

Additional Comments:

Because students are incorporated into the call schedule well in advance of the rotation, those who wish to drop this sub-internship **can drop the course with the preceptor's permission at a minimum of ONE MONTH prior to the scheduled rotation**

PICU 548-01

Site: University of Maryland Hospital
Department: Pediatrics
Principal Preceptor: John Straumanis, M.D., Director, PICU
Title of Course: Pediatric Critical Care Sub-Internship

Description and Goals:

This sub-internship is designed to give senior medical students the opportunity to evaluate and manage critically ill children under the direct supervision of senior residents, Pediatric Critical Care Fellows, and Pediatric Critical Care Faculty. The student will follow patients from admission to discharge from the PICU, and will be expected to present the patient(s) daily on work rounds. The subintern will be encouraged to develop a diagnostic and management plan on his/her patient(s) under the supervision of the third year resident. Students will be encouraged to focus on the basic pathophysiology of disease states in the critically ill child. Daily attendance at didactic conference is required. Students must arrive no later than 7:00 a.m. on the first day. Work rounds begin at 7:30 a.m. and the subintern is expected to pre-round on his/her patients beforehand. Also, the subintern is expected to take call every fourth night along with the third year resident. During the rotation, Dr. Gladstein, Sub-I Director meets with all Sub-Is every Wednesday at 3:00 p.m. in his office.

Duration: 4 weeks
Hours of Participation: See above description and goals.
Number of Students: 1 per rotation
Location: University Hospital
South Hospital, 5th Floor, Wing D
Availability: Academic weeks 1-44
Contact (Coordinator): Pat Schmidt
22 S. Greene Street, Room N5W56
Baltimore, MD 21201
Phone: (410) 328-6662
Fax: (410) 328-0646
E-mail: pschmidt@peds.umaryland.edu

Additional Comments:

Because students are incorporated into the call schedule well in advance of the rotation, those who wish to drop this sub-internship **can drop the course with the preceptor's permission at a minimum of ONE MONTH prior to the scheduled rotation.**

NSUR 548-01

Site: University of Maryland
Department: Neurosurgery
Title of Course: Sub-Internship in Neurosurgery

Description and Goals:

The student works as an intern in patient care on the service, spending three weeks primarily on the elective service and, if desired, one week on the Neurotrauma Service. The student participates in the full activities of the Department of Neurosurgery. Cases are assigned to each student, who will review diagnostic studies and scrub or be in the operating room on those cases. The majority of cases are patients with brain tumors or cerebrovascular diseases, pediatric neurosurgery problems, spinal disorder or epilepsy. The student will attend daily rounds with the House Staff and weekly teaching rounds. The student will also see patients in the Emergency Room with Neurosurgery residents. He/she will attend a neuropathology conference and clinical x-ray conference. He/she will also have the opportunity to observe patients who have sustained multiple trauma, with special emphasis on craniocerebral trauma and the examination of coma.

Duration: 4 weeks

Hours of participation: This rotation requires full-time participation. The student may elect to be on duty at night and weekends on a one in four rotation.

Number of Students: 2 per rotation

Availability: Academic weeks 1-44

Prerequisites: Successful completion of Junior Internal Medicine and Junior Surgery Clerkships

Principal Preceptor: Howard Eisenberg, M.D.
(410) 328-3113

Contact Person: Gloria Jones
Phone: (410) 328-8209
Fax: (410) 328-1413
UMMS, SD1205
gjones@smail.umaryland.edu

Additional Comments:

The course offers a dynamic exposure to surgical diseases of the nervous system on a large neurosurgical service. Diagnostic procedures and neurologic evaluations of patients are stressed. Innovative therapies are often studied. A student with motivation and interest in this area will find this course rewarding.

OSUR 548-01

Site: University of Maryland

Department: Orthopedics

Title of Course: Sub-Internship in Orthopedics

Description and Goals:

This elective is designed to give the Senior student broad exposure to all phases of orthopedic surgery and progressive responsibility in the management of patient care. An extensive conference and didactic program supplements this clinical experience. Over the course of the elective the student should be provided with an introduction to fracture recognition and management, trauma surgery, total joint replacement, spinal injury stabilization procedures, out-patient orthopedics, sports medicine, tumor reconstructive surgery, and the investigative side of the science. This Sub-Internship is recommended for senior students seriously considering a career in orthopedic surgery.

Duration: 4 weeks

Hours of Participation: Full clinical and academic schedule with night call on approximately every third day.

Number of Students: 6 per rotation

Availability: Academic weeks 1-44

Prerequisite: Successful completion of Junior Internal Medicine and Junior Surgery Clerkships.

Principal Preceptor: Vincent D. Pellegrini, Jr., M.D.
James L. Kernan, Professor & Chair
(410) 328-6040

Contact Person: Nannette Catterton
ncatterton@umoa.umm.edu
Phone: (410) 328-8915
Fax: (410) 328-0534
UMMS S11B

OTOL 549-01

SITE: University of Maryland Hospital
DEPARTMENT: Otorhinolaryngology – Head and Neck Surgery
TITLE OF COURSE: Otorhinolaryngology – Head and Neck Surgery Sub-Internship

DESCRIPTION AND GOALS OF COURSE:

Each student is given a supervised opportunity to be responsible for pre and post-operative evaluation and care of patients on the Oto-HNS Service, as well as to participate in operative procedures. Course content includes head and neck oncology; head and neck reconstruction/microvascular surgery; facial plastic and reconstructive surgery; otology/neurotology/lateral skull base surgery; rhinology and anterior skull base surgery; laryngology/neurolaryngology; pediatric otolaryngology, and medical otolaryngology. The student will become familiar with proper head and neck examinations and receive exposure to ancillary diagnostic procedures (laryngoscopy, micro-otoscopy, edoscopy, etc.). Regularly scheduled conference attendance is required. In-house night call is rotated approximately every fourth night.

Duration: 4 weeks
Number of Students: 2 per rotation
Time of Year Available: Academic weeks 1-44
Faculty Responsible: William Gray, M.D.
(410) 328-5828
Contact Person: Vonda Cowling
Phone: (410) 328-2477
Fax: (410) 328-5827
Email: vcowling@smail.umaryland.edu
Prerequisites: Successful completion of Junior Internal Medicine and Junior Surgery Clerkships.
Additional Comments: This course is directed toward those who are interested in Surgical specialties of the head and neck.

Surgery Sub-Internships for University Hospital

Various Codes

Site: University of Maryland Hospital

Principal Preceptor: Stephen Jacobs, M.D.
Director of Student Education
(410) 328-5544

Title of Course: Senior Sub-Internship in Surgery

Description and Goals:

The Department of Surgery offers four week sub-internships for Senior Students interested in solidifying and expanding their knowledge of surgical diseases. Each session is comparable to an internship and is offered in each of the following areas:

COURSE #

CSUR 548-01	Cardiothoracic Surgery	# of Students: 2 per rotation
GSUR 546-01	Trauma Surgery (MIEMSS)	# of Students: 3 per rotation
GSUR 548-01	General Surgery (UMH)	# of Students: 1 per rotation
GSUR 548-02	General Surgery (Mercy Hospital)	# of Students: 1 per rotation
GSUR 548-07	General Surgery (VAMC)	# of Students: 1 per rotation
GSUR 549-01	General Surgery (Surgical Oncology)	# of Students: 1 per rotation
PSUR 548-01	Pediatric Surgery	# of Students: 1 per rotation
TSUR 546-01	Shock Trauma Intensive Care	# of Students: 2 per rotation
TRAN 548-01	Organ Transplant	# of Students: 1 per rotation
VSUR 548-01	Vascular Surgery (UMH)	# of Students: 1 per rotation

Students will form an integral part of the "surgical team" and assume all responsibilities usually designated to Interns. This includes initial patient encounters at the Clinics or E.R., surgical decision making, preoperative care, assistance in the Operating Room and provision of post-operative care. Additionally, students will be responsible for active participation in surgical conferences, and may be required to perform literature reviews of pertinent clinical problems.

Excellence in patient care, coupled with strong academic pursuits are the highlights of a Senior Internship in Surgery.

CSUR 548-01

Site: University of Maryland Hospital

Department: Surgery

Title of Course: Sub-Internship in Cardiothoracic Surgery

Description and Goals:

The Division of Thoracic and Cardiovascular Surgery offers a Sub-Internship for senior students. Students serve as a member of the surgical team and assume all of those responsibilities usually and appropriately delegated to Interns. The goals of this program are to develop proficiency in understanding, diagnosis and management of the patient with surgical heart and lung disease. Wide experience is given in the care of the surgical patient including treatment of arrhythmia, post-operative fluid and nutritional care and operating room technology.

Duration: 4 weeks

Hours of Participation: Those of a House Officer

Number of Students: 2 per rotation

Availability: Academic weeks 1-44

Prerequisite for Course: Must have completed Internal Medicine and Surgery Clerkships

Principal Preceptor: Bartley Griffith
(410) 328-5842

Contact Person: Diana Thomas
22 S. Greene Street, Rm N4E27
Baltimore, Maryland 21201
Phone: 410-328-5878
Fax: 410-328-5919 Email: dthomas@smail.umm.edu

GSUR 546-01

Site: R.A. Cowley Shock Trauma Center
Department: Surgery
Title of Course: Shock Trauma Surgery Sub-Internship

Description and Goals:

In this clinical elective you will be a member of a trauma team at the R. Adams Cowley Shock Trauma Center. The Center is the clinical hub of the State of Maryland's system of emergency care, the Maryland Institute for Emergency Medical Services Systems. Each year, approximately 6,000 injured patients are admitted to the Center. Approximately 80% are admitted directly from the scene of injury via State Police Medevac Helicopter or ambulance and approximately 15% are transferred to the Center from other hospitals. The Center is staffed and equipped to deliver state-of-the-art care to the critically injured. In addition, patients with conditions requiring hyperbaric medicine are treated. Care at the Center is multi-disciplinary. The trauma teams are responsible for the resuscitation, diagnosis, and emergency trauma surgery management of all patients from admission to discharge. In addition, they are responsible for coordination of care with other specialties, including: orthopaedic surgery, neurosurgery, plastic surgery, oral surgery, anesthesiology and critical care medicine. The student is expected to gain a basic knowledge of the priorities of trauma resuscitation, diagnosis, and acute care, and an understanding of post-acute care. Student activities are closely supervised by their team attending surgeons and fellows.

In addition to clinical activities, educational activities include daily lectures, bi-weekly M & M conferences and Grand Rounds lectures.

Duration: 4 weeks

Hours of Participation: Students are assigned to 1 of 3 trauma teams and are expected to follow the same time-table as the fellows and residents on these teams. This means that one out of every 3 days the student is expected to stay in the hospital all night.

Number of Students: 3 per rotation (1 per team)

Availability: Academic weeks 1-44

Principal Preceptor: Amy C. Sisley, M.D.
Director, Physician Education
410-328-5878

Contact Coordinator: Eileen McShaneBrown
Phone: (410) 328-3055
Fax: (410) 328-3665 emcshane@umm.edu
Shock Trauma Center – T1R69

Additional Comments:

This is a very popular rotation. If you must withdraw after you have been scheduled, contact Wendy Mimaros to cancel **at least one month prior to the start date of the rotation** to allow another student to fill the position.

GSUR 548-01

Site: University of Maryland
Department: Surgery
Title of Course: Sub-Internship in General Surgery

Description and Goals:

The senior student will serve as an acting intern on the General Services of the University of Maryland Hospital. These Services treat a large volume of surgical emergencies and critical surgical illnesses. The student will be exposed to the diagnosis and treatment of the acute abdomen, and elective general surgery. Course content includes gastrointestinal diseases, biliary tract disease, surgical oncology, and surgical endocrinology, Emphasis is placed on continuity of care, including following each patient through preoperative evaluation, surgery, post-op care and clinic follow-up. The senior student will be an integral member of the surgical team consisting of faculty and surgical house staff.

Duration: 4 weeks
Hours of participation: Full time
Number of Students: 1 per rotation
Availability: Academic weeks 1-44
Prerequisites: Completion of Internal Medicine and General Surgery Clerkships
Principal Preceptor: Dr. Amy Sisley
(410) 328-5878
Contact Person: Diana Thomas
22 S. Greene Street, Rm N4E27
Baltimore, Maryland 21201
Phone: 410-328-5878
Fax: 410-328-5919 Email: dthomas@smail.umm.edu

GSUR 548-02

Site: Mercy Medical Center
Department: Surgery
Title of Course: Sub-Internship - General Surgery

Description and Goals:

The Department of Surgery at Mercy Medical Center offers a four-week sub-internship to senior medical students. The student has an opportunity to participate in a sub-intern in patient care problem as met in an academically oriented University associated community hospital. You will participate in pre-operative, intra-operative and post-operative care including patient management problems and the decisions involved in their solutions. One can expect to be a participant in writing orders seeing patients, helping with procedures related to those patients similar to that of a first year resident. The student will have immediate supervision by a fifth year surgical resident and a first year surgical resident. Direction and overall supervision will be by one of the full time staff at Mercy Medical Center. This rotation offers an opportunity to function with some independence yet with the immediate availability of appropriate support.

Duration: 4 weeks

Hours of Participation: Full time

Number of Students: 1 per rotation

Prerequisite: Successful completion of Junior Medicine and Junior Surgery Clerkships

Additional Comments: Regular conferences are held including Journal Club and Grand Rounds. Students are expected to participate in Journal Club and, where appropriate, in Grand Rounds.

Principal Preceptor: J. Lawrence Fitzpatrick, M.D.
Director for Surgical Education
(410) 332-9696

Contact Person: Diana Thomas
22 S. Greene Street, Rm N4E27
Baltimore, Maryland 21201
Phone: 410-328-5878
Fax: 410-328-5919 Email: dthomas@smail.umm.edu

GSUR 548-07

Site: Baltimore VA Medical Center

Department: Surgery

Title of Course: Sub-Internship in General Surgery

Description and Goals:

The Senior student will serve as an acting intern on the General Services of the Baltimore VA Medical Center. These Services treat a large volume of surgical emergencies and critical surgical illness. The student will be exposed to the diagnosis and treatment of the acute abdomen, and elective general surgery. Course content includes gastrointestinal diseases, biliary tract disease, surgical oncology, and surgical endocrinology. Emphasis is placed on continuity of care, including following each patient through preoperative evaluation, surgery, postop care and clinic follow-up. The senior student will be an integral member of the surgical team consisting of faculty and surgical house staff.

Duration: 4 weeks

Hours of Participation: Full time

Number of Students: 1 per rotation

Availability: Academic weeks 1-44

Prerequisite: Successful completion of Junior Internal Medicine and Junior Surgery Clerkships.

Principal Preceptor: Douglas Turner, M.D.
(410) 605-7228

Contact Person: Diana Thomas
22 S. Greene Street, Rm N4E27
Baltimore, Maryland 21201
Phone: 410-328-5878
Fax: 410-328-5919
Email: dthomas@smail.umm.edu

GSUR 549-01

Site: University of Maryland
Department: Surgery
Title of Course: Sub-Internship in Surgical Oncology

Description and Goals:

The senior student will serve as an acting intern on the General Surgery Oncology Service of the University of Maryland Hospital. These services serve a large volume of critical cancer cases. Emphasis is placed on continuity of care, including following each patient through preoperative evaluation, surgery, post-op care and clinic follow-up. The senior student will be an integral member of the surgical team consisting of surgical oncology faculty and surgical housestaff.

Duration: 4 weeks
Hours of participation: Full time
Number of Students: 1 per rotation
Availability: Academic weeks 1-44
Prerequisites: Completion of Internal Medicine and General Surgery Clerkships
Principal Preceptor: Dr. Nazanin Khakpour
(410) 328-5878
Contact Person: Diana Thomas
22 S. Greene Street
Rm N4E27
Baltimore, Maryland 21201
Phone: 410-328-5878 Fax: 410-328-5919
Email: dthomas@smail.umm.edu

PSUR 548-01

Site: University of Maryland Hospital

Department: Surgery

Title of Course: Sub-Internship in Pediatric Surgery

Description and Goals:

The student acts as a sub-intern on a busy pediatric surgery service. The goals are to learn the scope of pediatric surgical problems and their pathophysiology, to produce a degree of comfort in the management of babies and children and to introduce the more delicate techniques of operations encountered in this surgical field. An innovative idea from a fresh student mind and the fun of kids and surgery inevitably surface.

Duration: 4 weeks

Hours of Participation: Full time

Number of Students: 1 per rotation

Availability: Academic weeks 1-44

Prerequisites: Successful completion of Junior Pediatrics and General Surgery Clerkships

Principal Preceptor: Dr. Roger Voight
(410) 328-5730

Contact person: Diana Thomas
22 S. Greene Street, Rm N4E27
Baltimore, Maryland 21201
Phone: 410-328-5878
Fax: 410-328-5919
Email: dthomas@smail.umm.edu

TSUR 546-01

Site: R.A. Cowley Shock Trauma Center
Department: Surgery
Title of Course: Shock Trauma Intensive Care Sub-Internship

DESCRIPTION AND GOALS:

In this clinical sub-internship, you will be a working member of the team in the trauma and neurological ICUs at the R. Adams Cowley Shock Trauma Center. The Center is the clinical hub of the State of Maryland's system of emergency care, the Maryland Institute for Emergency Medical Services Systems. Each year, approximately 6,000 injured patients are admitted to the Center. Approximately 80% are admitted directly from the scene via State Police Medevac Helicopter or ambulance and approximately 15% are transferred to the center from other hospitals. The center is staffed and equipped to deliver state-of-the-art care to the critically injured.

Students will admit patients to the unit, perform history, physical and laboratory assessments, and present patients on rounds and provide ongoing care. The student will perform any indicated procedures for his/her patient under unit physician supervision. The student will attend unit teaching conferences and relevant institutional conferences, including daily lectures, bi-weekly M & M conferences and Grand Rounds lectures.

During the rotation the student will learn about the clinical evaluation and management of various critical care problems including shock, heart failure, myocardial ischemia/infarction, respiratory failure, ARDS, renal failure, hepatic failure, GI bleeding, sepsis, multi-organ failure and ethical issues. The student will become familiar with techniques such as fluid resuscitation, transfusion therapy, vasoactive drug therapy, invasive hemodynamic monitoring, airway management, ventilator support, renal replacement therapy, antibiotic usage and blood gas analysis. Student activities are closely supervised by attending surgeons and fellows.

Duration: 4 weeks

Hours of Participation: Full-Time, Monday through Friday (morning and afternoon rounds).
Weekends (morning rounds).
Overnight call 6-7 times per month.

Number of Students: 2 per rotation

Availability: Academic weeks 1-44

Principle Preceptor: Steven B. Johnson, M.D.
Chief, Division of Surgical Critical Care

Contact Coordinator: Regina Ruffin
Phone: (410) 328-7611
Fax: (410) 328-0687
Email: rruffin@umm.edu

TRAN 548-01

Site: University of Maryland Hospital

Department: Surgery

Principal Preceptor: Dr. Benjamin Phiosophe
(410) 328-5408

Title of Course: Sub-Internship in Organ Transplant

Description and Goals:

The student serves as a Junior House Officer on an Organ Transplant Service. The base of clinical material consists of patients having kidney, pancreas and liver transplantation, but also includes the selection of such patients for transplantation, organ harvesting and basic Principals in immunosuppression. The goal is a development of proficiency in understanding how patients are selected, immune profiles are matched, and the critical parameters of the host defense system.

Duration: 4 weeks

Hours of Participation: Full time

Number of Students: 1 per rotation

Availability: Academic weeks 1-44

Prerequisites: Successful completion of Junior Internal Medicine and Junior General Surgery Clerkships

Contact Person: Diana Thomas
22 S. Greene Street, Rm N4E27
Baltimore, Maryland 21201
Phone: 410-328-5878
Fax: 410-328-5919
Email: dthomas@smail.umm.edu

VSUR 548-01

Site: University of Maryland Hospital

Department: Surgery

Title of Course: Sub-Internship in Vascular Surgery

Description and Goals:

This is an introduction to the management of patients with peripheral vascular disorders. Students will actively participate and a care for patients with venous and arterial diseases. Students will also be exposed to the non-invasive vascular laboratory and its contribution to patient care. This course will provide the student with a solid background in the treatment of vascular disorders.

Duration: 4 weeks

Hours of Participation: Full time

Number of Students: 1 per rotation

Availability: Academic weeks 1-44

Prerequisites: Successful completion of Junior Internal Medicine and Junior General Surgery Clerkships

Principal Preceptor: William R. Flinn, M.D.
(410) 328-5840

Contact Person: Diana Thomas
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Phone: 410-328-5878
Fax: 410-328-5919
Email: dthomas@smail.umm.edu