

# PEDIATRICS - MD (PED)

## **PED 099 Pediatric Emergency Medicine 3 cr**

The students will assist the attending physician and/or PGY 2-3 resident in evaluating and treating acute emergency patients presenting to USA Children's & Women's Emergency Department.

## **PED 311 Pediatrics 8 cr**

The clinical clerkship in Pediatrics includes newborn nursery, outpatient and inpatient services. The two week newborn nursery experience includes the intensive care nursery for learning about seriously ill neonates. The two week outpatient experience is designed to allow contact with common diseases seen in pediatric medicine and instruction in their diagnosis and management. During the outpatient rotation, growth, development, and nutrition are stressed. The four week inpatient experience is for learning about the more serious pediatric illnesses.

## **PED 400 Pediatrics Externship 4 cr**

To be determined.

## **PED 444 Spec Elec-Pediatrics 4 cr**

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

## **PED 450 Acting Intern - Pediatrics 4 cr**

The student will be assigned to the pediatric inpatient service along with the pediatric residents. The student will be assigned patients in rotation with first year level pediatric residents. Direct supervision will be given by the senior resident. Instruction will be given by the attending faculty member.

## **PED 451 Acting Intern - Ped Crit Care 4 cr**

To provide clinical experience in the care of critically ill infants and children. The senior student will function as an intern in the Pediatric Intensive Care Unit (PICU) to build up the experience required in the junior clerkship.

## **PED 452 Acting Intern - Neonatology 4 cr**

To provide clinical experience in care of sick neonates. The senior student will function as an acting intern in the Newborn Intensive Care Nursery to build upon the experience acquired in the junior clerkship.

## **PED 453 Acting Intern - Ped Emer Med 4 cr**

This is a four-week Pediatric Emergency Care rotation during which the senior student will serve as an acting intern in the Evaluation Center (EC) at USA Children's and Women's Hospital. The acting intern will function along side regularly assigned pediatric and Med/Peds interns and will have the same responsibility for the initial assessment of pediatric and adolescent patients presenting to the EC under the supervision of the attending physician and senior resident. The acting intern will perform the initial history and physical examination and will develop a differential diagnosis and initial management plan which will be carried out after discussion with the attending physician or senior pediatric resident. As a result of this clinical experience, the acting intern will learn to identify and manage acute medical problems and injuries in children and adolescents. The acting intern will also gain experience in decision making regarding the indications for hospitalization versus outpatient management in certain cases. As a part of the evaluation of these children, the acting intern will gain experience in a number of procedures including venipuncture, arterial puncture, initiation of intravenous fluids, airway management, laceration repair/wound management, lumbar puncture and splinting/fracture management. The acting intern will also gain experience in ordering and interpreting arterial and venous blood gases, laboratory studies, radiology studies (plain films, CT scans, ultrasounds), and EKG's. The acting intern will participate in management of children in cardiopulmonary arrest and in resuscitations due to medical or trauma-related causes. Direct supervision will be given by the attending physician or senior pediatric resident.

## **PED 460 Pediatric Cardiology 4 cr**

The student will (1) work up all new patients and new consultations (under the supervision of the attending); (2) write daily cardiology progress notes on all patients; (3) present patients to the pediatric cardiology attending on rounds; (4) participate in the Pediatric Cardiology Clinics; (5) read and review with the attending all pediatric ECG's; (6) attend pediatric case/teaching conferences; (7) help with emergency care, cardiac catheterization, and pediatric exercise tests as needed. On an average, the student will work 40 hours per week. A comprehensive "handout" will be given to the student at the beginning of the rotation. This contains useful normal-value tables for ECG as well as detailed description of heart murmurs and articles pertaining to common symptoms referred to the cardiologist. A self-instruction audio tape is available on loan for learning cardiac auscultation. The student will make daily pediatric cardiology rounds, see consults, attend Pediatric Cardiology Clinic five half-days weekly, and review all pediatric ECG's with the attending.

## **PED 461 Pediatric Hematology/Oncology 4 cr**

The student will be assigned to the pediatric inpatient service along with the pediatric residents. The student will be assigned patients in rotation with first year level pediatric residents. Direct supervision will be given by the senior resident. Instruction will be given by the attending faculty member.

## **PED 462 Pediatric Subspecialty Clinic 4 cr**

The patient population served by pediatric hematology/ oncology includes patients with sickle cell disease, and other hemoglobinopathies, hemophilia, coagulation disorders, and childhood malignancies. Multi-disciplinary programs exist for patients with such chronic conditions. Researchers are involved in studies of hemoglobin gene expression and switching mechanism, and clinical investigations on sickle cell disease and cancer.

**PED 463 Pediatric Critical Care 1-4 cr**

The student will be responsible for attending admissions to the PICU. He/she will do initial workup and evaluation. He/she will be responsible for planning patient care, presenting patients on rounds and will be responsible for doing those procedures assigned to him/her by the attending/ resident in the unit. The student will do independent library research on selected topics concerning PICU care. The student will take night call every 4th night with the resident (7 calls per rotation). There should be adequate admissions during one month to provide sufficient patient material for learning. Supervision will be by the senior resident in the PICU and by the attending pediatric intensivist in charge at the time.

**PED 464 Pediatric Ambulatory Care 4 cr**

The student will evaluate all assigned patients and present them to the Attending Pediatrician. The student will be responsible for coordinating all diagnostic testing and treatment and arranging follow-up for patients. The student will complete the medical record in a satisfactory manner.

**PED 465 Gastroenterology & Nutrition 4 cr**

The student will be responsible for attending admissions to the Newborn Intensive Care Nursery. He/she will do initial workups and evaluations. He/she will be responsible for planning patient care and will be responsible for doing those procedures assigned to him/her by the resident in the unit. The students will do independent library research on selected topics concerning newborn care. The student will take night call every 4th night with the resident. There should be 60 - 65 admissions during one month to provide adequate patient material for learning. Supervision will be by the senior resident in the nursery and by the attending neonatologist in charge at the time.

**PED 466 Pediatric Emergency Medicine 4 cr**

The student will select a number of different Pediatric Subspecialty Clinics to make up a full time elective. A wide range of different subspecialties should be chosen. The student will attend all selected clinics and evaluate all patients designated by the Attending Physician. The student will then present the patients to the attending physician. The student will be responsible for satisfactory completion of the medical record. The student can gain clinical experience by interacting with all patients presenting to the Subspecialty Clinics. From time to time the faculty may give reading assignments to the student or request that the student research the medical literature on the topic.

**PED 467 Ambulatory Care 1-4 cr**

The student will evaluate all assigned patients and present them to the attending pediatrician. The student will be responsible for coordinating all diagnostic testing and treatment and arranging follow-up for patients. The student will complete the medical record in a satisfactory manner. The student will be assigned patients with a wide variety of pediatric problems and will learn by discussion with the attending pediatrician and by reading assigned to complement particular clinical experiences.

**PED 468 Gastroenterology and Nutrition 1-4 cr**

The student will make daily rounds with the attending physician, will see all consults to the GI/Nutrition service, will attend weekly pediatric GI clinic, and will attend all elective procedures (e.g. upper and lower endoscopies).

**PED 469 Pediatric Emergency Medicine 1-4 cr**

The student will be assigned to the Evaluation Center (EC) at USA Children's and Women's Hospital along with the pediatric residents assigned to that area. The student will have initial contact with patients taking the history and performing the physical examination. These results, together with a differential diagnosis and proposed management plan will then be reported to an attending physician or senior pediatric resident. As a result of this clinical experience, the student will learn to identify and manage acute medical problems in children. The student will also get experience in decision making regarding the necessity of hospitalization for certain cases. As a part of the evaluation of these children, the student will be instructed in the performance of a number of procedures including venipuncture, starting intravenous fluids, lumbar puncture, arterial blood gas, laceration repair and splint/ cast placement. The student will also assist in management of children with cardiorespiratory arrest. Direct supervision will be given by the attending physician or senior resident.

**PED 470 Pediatric Infectious Diseases 4 cr**

The elective in Pediatric Infectious Diseases is designed around the consultation service and the outpatient clinics. Consultations are seen from the general pediatric and surgical services, pediatric intensive care unit, neonatal intensive care unit, pediatric hematology-oncology service and other pediatric subspecialties. A wide ranging spectrum of disease is seen including congenital and neonatal infections, vaccine preventable diseases, infections in pediatric patients with Acquired Immunodeficiency Syndrome or with primary immunodeficiencies. In addition to daily hospital rounds, students spend one-half day per week in the USA Family Specialty Clinic caring for patients affected by HIV infection, and two one-half sessions per week in the outpatient Pediatric Infectious Diseases clinic. Additional educational activities include weekly lectures in pediatric infectious diseases by faculty, participation in the joint Infectious Diseases at the USA Medical Center Conference room on Thursdays at 9:00 and participation in the presentation of the monthly pediatric infectious disease conference at USA CWH.

**PED 471 Obesity & the Pediatric Patient 4 cr**

Overall, the medical students will attend the Pediatric Healthy Life Center clinic from Monday morning to Friday afternoon. A comprehensive package of guidelines and information will be provided to them. Resources for values of blood pressure, BMI, biochemical testing will be available.

**PED 472 Pediatric Endocrinology 4 cr**

The course objectives are as follows: 1. Learn to do a thorough history and physical examination on children with endocrine problems. 2. Learn to interpret a wide variety of endocrine function tests. 3. Understand the pathophysiology of common problems in pediatric endocrinology. 4. Understand the management of common problems in pediatric endocrinology.

**PED 473 The Adolescent Patient 4 cr**

Describe the Adolescence developmental phases ( physical, psychological, cognitive and sociological) and Summarizes the specific pathology associated with Adolescence: (such as but not limited to: Gender Identity, Sexual development and contraception, Sexually transmitted diseases, Sport injury, Behavior disorders, Drug Use, Menstrual disorders, Eating disorders, Cardio-Metabolic risk.) Develop a professional approach to the Adolescent Patient (confidentiality, respect, and therapeutic alliance) through independent learning with reflective writing on peer reviewed papers dedicated to adolescent ethical issues. Differentiate access to care for adolescent in the low Socioeconomic Strata on the basis of insurance coverage and age. Demonstrate specific patient plan incorporating the chronic medical care model.