PEDIATRICS - MD (PED)

PED 700: Pediatric Clerkship

6 Credits/Maximum of 6

This 4-week pediatric clerkship is a continuous required clinical experience in Phase 2 of your medical education at the Penn State College of Medicine. You will have hands-on experiences and an opportunity to work directly with residents, attending physicians, advanced practice providers, and other health care staff. Please refer to your individual schedules as provided. Pediatrics primarily deals with the comprehensive health care of individuals (ages 0 to 18) who are constantly changing physically and psychologically. The mission of this 4-week clerkship is to provide medical students an appreciation and understanding of pediatrics. This is accomplished by providing various clinical and educational experiences that place particular emphasis on recognizing and managing common childhood diseases, assessment of growth and development, immunizations, nutrition, psychosocial issues, and preventative health care.

Prerequisite: Successful completion of Phase I coursework & pass Step 1

PED 710: Pediatric Hematology/Oncology Acting Internship

5 Credits/Maximum of 5

Clinical and laboratory evaluation and treatment of hematologic and oncologic diseases in children. Conferences and rounds. One detailed topic review.

Prerequisite: third year core clerkships

PED 710A: Pediatric Hematology/Oncology Elective (3rd year)

2.5 Credits/Maximum of 2.5

This course provides exposure to the pediatric cancer patient and the field of Pediatric Oncology by closely following several patients through their full range of illness experiences. PED 710A Pediatric Hematology/ Oncology Elective (2.5) This course is designed to introduce third year medical students to the field of Pediatric Oncology in a unique way. Students will be assigned selected patients under treatment for cancer or hematologic disease. Students will follow these patients and their families closely for the 2-week selective, but in addition to focusing on the medical care, the student will follow each patient through his or her entire experience. The student will be expected to research the primary disease and other medical issues of their assigned patients, attend daily rounds, and will also accompany and observe the patient through experiences related to their illness. These may include diagnostic tests, physical therapy, dietary, pharmacy, social work contact, play activities, and clinic visits and home visits if the patient is discharged. The student's experience will require contact with multiple consultants and departments involved in the care of their patients, including physicians, nurses, pharmacists, the team psychologist, teachers, social workers, child life, dieticians and others. Each student will meet at least weekly to discuss the assigned patients with one of the Pediatric Hematology/Oncology attendings and with the team psychologist. Rather than write daily notes, the student will keep a journal and prepare a written or oral presentation on at least one of their patients.The overall goal of the elective is to allow students to appreciate the scope of Pediatric Hematology/Oncology through the eyes of the patient and the entire medial team. This unique approach should lead the student to integrate knowledge and gain insight into the medical field not available through any other rotation.Evaluation will be by faculty but may include comments by the patients, their families, and other members of the medical team, as well as the quality of the student's final presentation.

Prerequisite: successful completion of any third year required clerkship that includes direct patient care (Pediatrics, Medicine, Surgery, Family Medicine, OB/GYN).

PED 715: Pediatric Infectious Disease 4th Year Elective

5 Credits/Maximum of 5

This 4-week elective builds on skills students have developed throughout their previous basic science knowledge and clinical rotations to provide them with additional exposure to the diagnosis and treatment of infections in children. Rounding with the consulting team: Students will work with the attending Pediatric ID physician, as well as any other learners (residents, students) who may be on the rotation to see new consults and follow up existing patients. Students will be responsible for performing the initial consult, including the history and physical, and then presenting the patient on rounds. The consulting service usually receives 15 new consults each week. Students will also have opportunities to see patients in the outpatient setting and round with the Antimicrobial Stewardship Team if they are interested. Other activities include weekly microbiology rounds and ID case conference.

Prerequisite: Completion of Phases I and II courses and clerkships

PED 720: Pediatric Endocrinology

5 Credits/Maximum of 5

Clinical applications of basic endocrine concepts, gland functions, and effects upon growth; evaluation of endocrine tests in disease states.

Prerequisite: PED 700

PED 726: Clinical Genetics

5-10 Credits/Maximum of 10

Mendelian and molecular principles of human genetics; genetic bases of human disease, quantitative human genetics, prenatal diagnosis, genetic counseling.

PED 727: Neonatology Acting Internship

5 Credits/Maximum of 5

Acting Internship emphasizing physiology of the newborn infant; concepts, practice, and procedures of intensive perinatal life support.

Prerequisite: successful completion of the Pediatrics core clerkship

PED 728: Pediatrics--Milton Hershey School Elective

5 Credits

This is an outpatient exposure to primary care medical problems of children in grades K-4 through 12.

Prerequisite: completion of third-year core clerkships

PED 739: Pediatric Cardiology Elective with Global Health Experience

5 Credits

This course provides exposure to basic concepts for diagnosis and management of children with cardiovascular diseases and cardiac abnormalities with a global health experience.

Prerequisite: successful completion of 3rd year clerkship in pediatrics and completion of 3rd year. This block is only offered for the end of October-November block (provided that external funds can be secured).

PED 740: Pediatric Cardiology Elective (4th year)

5 Credits/Maximum of 5

This course provides exposure to basic concepts for diagnosis and management of children with cardiovascular diseases and cardiac abnormalities.

Prerequisite: successful completion of 3rd year clerkship in pediatrics and completion of 3rd year. 3rd year students may apply for the last 2 blocks of the academic year (transition to internship for 4th year students) but preference wi

PED 741: Pediatric Pulmonary and Sleep Medicine Elective

5 Credits/Maximum of 5

This course provides experience in basic concepts of the pathophysiology and clinical management of children with respiratory conditions and sleep neurobehavioral abnormalities.

Prerequisite: successful completion of the third year Pediatrics Clerkship

PED 742: Pediatric Developmental & Behavioral Elective

5 Credits/Maximum of 5

This course provides exposure to basic concepts for diagnosis and management of children with behavior problems and developmental delays.

Prerequisite: successful completion of 3rd year clerkship in pediatrics

PED 747: Pediatric Allergy, Asthma and Immunology Elective

5 Credits/Maximum of 5

This course provides exposure to basic concepts for diagnosis and management of children and adults with allergic and immunologic diseases and respiratory and cutaneous abnormalities. MED 747 Clinical Elective in Allergy, Asthma and Immunology (5)The fourth year student rotating on the allergy service will experience an active and up to date Allergy and Immunology clinical service. Diseases you will be managing include allergic skin disorders, asthma, sleep, rhinitis, sinusitis, primary immunodeficiencies, recurrent infections, drug, food and insect allergy, and anaphylaxis. Developing an excellent history to include occupational, environmental and travel history will be facilitated. The student will be able to participate as an active member of the clinic and will have responsible for the patient. We anticipate that you will act as an intern and will manage the patient completely from start to finish. Clinic hours are daily 8 AM to 5 PM except Weds AM which is our academic time. In addition, to clinic there is an opportunity to participate in inpatient consults; however, the majority of time (90%) will be spend in the clinic seeing patients. Techniques include skin biopsy, skin test, patch testing, spirometry, and patient education and there will be ample opportunity to practice these techniques. Most of the education is done bedside during the patient's visit. Lastly, we expect that the student will present a short power point presentation, develop a manuscript or participate in research if time permits.

Prerequisite: successful completion of the 3rd year required clerkships Cross-listed with: MED 747

PED 750: Pediatric Nephrology/Diabetes

5-10 Credits/Maximum of 10

Outpatient and inpatient clinical concepts/diagnosis and management of children with acute and chronic renal disease or renal electrolyte abnormalities.

Prerequisite: PED 700

PED 750A: Pediatric Nephrology Elective (3rd year)

2.5 Credits

This course provides exposure to basic concepts for diagnosis management of children with kidney disease or fluid/electrolyte abnormalities. PED 750A Pediatric Nephrology Elective (2.5) This course is designed to introduce third year medical students to the basics of evaluation and management of children with kidney disease or hypertension, and to specifically to solidify skills gained in fluid and electrolyte management during the third year core clerkships including Pediatrics or Medicine, and in the year II Renal block. Students on this elective will serve as an integral part of the Pediatrics Nephrology team, personally evaluating and discussion management of patients on the inpatient, consult, and outpatient Pediatric Nephrology services. Didactic experiences will include daily, one-on-one discussions with the attending physician(s) on the Pediatric Nephrology service. Students will be expected to demonstrate evidence of independent reading in Pediatric Nephrology topics, and to attend scheduled Pediatric Nephrology and selected Pediatrics conferences.The overall goal of this elective is to allow students to attain the basic skills and knowledge necessary for initial evaluation of common Pediatric Nephrology problems encountered in primary care and in-patient pediatrics settings. Focus will be placed on review of renal physiology as it pertains to patient care, and to fluid and electrolyte management. Students will also be encouraged to hone their skills in obtaining a pediatric history and performing a pediatric physical exam.Evaluation methods will include a pre-test and post-test as well as subjective evaluation of students' funds of knowledge and patient care skills by the attending pediatric nephrology faculty. This course will be offered throughout the entire academic year.

Prerequisite: successful completion of any third year course which includes direct patient care

PED 751: Pediatrics, Child Abuse Pediatrics Elective

5 Credits/Maximum of 5

This course provides the student with an exposure to the assessment and management of children alleged to be abused or neglected, the manifestations of child abuse and neglect, and the interface between medicine and other agencies (Child Protection, law enforcement, and legal professionals).

Prerequisite: successful completion of the 3rd year clerkships

PED 755: Pediatric Adolescent/Young Adult Medicine Elective (4th year)

5 Credits/Maximum of 5

Students participate in the evaluation and treatment of a full range of primary care services to adolescents and young adults.

Prerequisite: completion of third-year core clerkships

PED 756: Adolescent Medicine Elective

4 Credits

Adolescent Medicine is a division in the department of Pediatrics. The Adolescent Medicine elective course will allow students four weeks to further immerse into the Adolescent Medicine subspecialty. Students will have the opportunity to directly care for adolescent patients (ages 10-24 years old) and learn about the multidisciplinary collaborative care approach utilized in the Adolescent Medicine division at Penn State Children's Hospital. Students will become familiar with the complex interdisciplinary medical care of the adolescent population. The course will allow students to experience many aspects of care offered by Adolescent Medicine clinicians for adolescent-specific health concerns, such as eating disorders, weight management, gender incongruence, menstrual abnormalities, sexual and reproductive health, and addiction medicine. Students will spend time at various levels of patient care, including outpatient, inpatient, and partial hospitalization programs. Students will have the opportunity to assume ownership of patients, see patients independently with both direct and indirect supervision, and participate in medical decision making and medical documentation. Students will be expected to act professionally and learn about the importance of adolescent confidentiality. By the end of the 4-week elective, the students will be expected to present a journal club article that emphasizes a relevant topic in the field of Adolescent Medicine.

Successful completion of Phases I and II courses and clerkships

PED 765: Pediatric Neurology

5-10 Credits/Maximum of 10

Rounds, conferences, and clinics and experience in electroencephalography, electromyography, neuroradiology, neuro-ophthalmology, psychometric testing, and otolaryngology, as clinically appropriate.

Prerequisite: PED 700

PED 770: Pediatric Critical Care Medicine Acting Internship

6 Credits/Maximum of 6

The AI student should function with direct and indirect supervision to gather focused patient information during the history and physical exam in a time effective manner, and use critical thinking and advanced knowledge to guide judgement and medical decision making in a semi-autonomous fashion. Students will take primary responsibility and be accountable for patient care, management, follow up, and reassessment throughout all phases of clinical care from admission to discharge. The AI student will be expected to exemplify professional behavior, communication, and teamwork with patients and families, interprofessional care team members and interdisciplinary consultants at the level of a resident intern. Prioritization and timely coordination of patient care activities will be the responsibility of the AI student, including smooth and effective transfers of care, discharge planning, and necessary follow up. The AI student will also display appropriate team leadership and teaching activities when applicable. During this specific AI Course, students will be immersed within the specialty of Pediatric Critical Care Medicine, and will use advanced medical knowledge and practice during direct patient care in a collaborative and interprofessional manner.

Prerequisite: Successful completion of the pediatric core clerkship

PED 780: Pediatrics Acting Internship

6 Credits/Maximum of 6

Core Acting Internship rotations at Penn State emphasize students' active role on the team to ensure readiness for residency. In their role as acting interns, students on Core AI rotations will develop increasing proficiency and independence in developing plans of care, entering orders, preparing and performing patient handoffs, appropriately evaluating and responding to changes in patients' clinical conditions, and applying evidence-based care to patient management. During this specific AI Course, students will be immersed within the specialty of Inpatient Pediatrics and will use advanced medical knowledge and practice during direct patient care in a collaborative and interprofessional manner. The overall goal of this course is to learn how to take primary responsibility for the care of a hospitalized pediatric patient. AIs will act as a self-directed learner in order to successfully become a more independent provider.

Prerequisite: Successful completion of the third year core clerkships

PED 796: Pediatric Individual Studies

5 Credits/Maximum of 5

Individually supervised creative projects, including basic or clinical pediatric research.

Prerequisite: successful completion of 3rd year core clerkships. Student must contact course director for approval prior to registering for course.

PED 796A: Pediatric Individual Studies for 3rd Year Medical Students

2.5 Credits

Pediatrics Individual Studies for 3rd Year Medical Students.

Prerequisite: successful completion of one 3rd year core clerkship

PED 797: Pediatrics Special Topics

5 Credits/Maximum of 5

Basic or clinical electives in pediatrics at non-affiliated institutions.

Prerequisite: successful completion of 3rd year core clerkships. Student must contact course director for approval prior to registering for this course.