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PEDIATRIC INFECTIOUS DISEASE ELECTIVE ROTATION

Pediatric Infectious Disease Elective is a four week elective for the student that has successfully completed the third year pediatrics clerkship and with an interest in either a career in pediatrics or infectious disease.

GOALS AND OBJECTIVES

PROFESSIONAL CONDUCT & ATTITUDES

Cultural, ethnic, and socioeconomic factors also affect personal and family traits and behaviors, with varying effects on child rearing practices. Recognition of and respect for difference are important. The physician's primary obligation is to promote the best interest of the patient.

Students have a personal responsibility for their own education and for development of life-long learning skills. They must interact with all staff, including their peers and their teachers, in a manner that demonstrates respect for each individual and that promotes personal and group learning.

The student will demonstrate respect, dedication and knowledge to patients and families. Patient safety and well-being will take priority over other activities during the rotation.

The student will demonstrate professionalism, as described in the bylaws of the organization, to students, residents and healthcare workers that encompass the medical team of the patient.

SKILLS

CLINICAL DIAGNOSIS AND MANAGEMENT

Competencies

1. Know the clinical presentation, pathophysiology, diagnosis and management of common and uncommon, acute and chronic infectious disease (ID) entities in normal and immunocompromised children
2. Familiarize with the most common reasons for consultation in the outpatient setting
3. Develop discernment as to indications for specimen collection relevant ID, including, but not limited to special culture techniques, bronchoscopy, thoracentesis, arthrocentesis, lumbar puncture, aspiration of an abscess and biopsy of relevant sites
4. Gain knowledge in the indications, yield and limitations for diagnostic imaging studies relevant to infectious diseases
5. Formulate an ID-oriented clinical impression based on a thorough patient's history, physical examination, and interpretation of diagnostic and laboratory results
6. Attain a working knowledge of antimicrobial agents appropriate for empiric and specific therapy of pediatric infectious diseases

7. Appropriately request and interpret antibiotic drug levels and antimicrobial susceptibility testing
8. Describe complications that may be associated with antimicrobial therapy and how to prevent, identify and manage such complications
9. Incorporate the relevance of social, economic and ethical factors in the epidemiology, presentation, and management of infectious diseases in children
10. Gain knowledge in infectious diseases common in indigent and immigrant populations

PREVENTION OF INFECTION

Competencies

1. Understand and practice the principles of prevention of nosocomial infections (isolation techniques, antisepsis, screening, etc.)
2. Describe the prevention of infectious diseases through active and passive immunization, prophylaxis and judicious use of antimicrobial agents

INFECTION AND HOST DEFENSES

Competencies

1. Discuss host-microbe interactions in immunocompromised hosts, very low birth weight infants and patients with malignancy, congenital defects or multi-organ system failure
2. Describe the effects of underlying diseases and/or immunocompromising therapy or disease states that may affect host responses to infection
3. Describe how active or passive immunization or immunomodulation may enhance host responses to infection
4. Identify conditions or clinical circumstances that cause immunocompromise or render patients susceptible to particular ID processes

INFECTIOUS DISEASES AS A CONSULTATION SERVICE

Competencies

1. Be able to identify the question being asked by the requesting physician, and the emergency in evaluating the patient
2. Acquire knowledge in the role of a consultant through interaction with primary and other subspecialty physicians
3. Triage requests for consultation based on the acuity and circumstances of each patient
4. Be familiar with ID-specific resources available

Required Assignment Texts and web sites:

1. 2012 AAP Red Book: Report on the Committee of Infectious Disease 29th edition
2. Principles and Practice of Pediatric Infectious Diseases – Long, Pickering and Prober – (available in mdconsult)
3. AAP Redbook online <http://aapredbook.aappublications.org>