Aims

This four week sub-internship will prepare medical students to diagnose and manage common pediatric infectious diseases in the inpatient and outpatient settings.

Objectives

Medical Knowledge

- Identify the etiology and pathogenesis of common pediatric infections and utilize this knowledge to develop diagnostic and treatment strategies for pediatric patients.
  - Specific infections to address include:
    - Pediatric exanthems
    - Musculoskeletal infections
    - Central nervous system infections
    - Sepsis
    - Tick borne illness
    - Device related infections
    - Congenital infections

- Compose and present a brief didactic session focused on a clinical entity affecting one of the patients covered during your clinical service, with the topic to be agreed upon by the learner and faculty mentor. This will offer both an opportunity to increase medical knowledge in the particular subject matter as well as practice preparing and presenting a brief lecture. This may be further developed into a poster presentation for the Children’s Hospital Research Forum or a case study for publication if appropriate.

Patient Care

- Review the commonly used oral and parenteral antimicrobials for children and apply this information to medication choices for patients evaluated on the infectious disease service.
  - Specific antimicrobial classes to discuss include:
    - Beta-lactam antibiotics
    - Aminoglycosides
    - Glycopeptides
    - Fluoroquinolones
    - Macrolides
    - Tetracyclines
    - Antifungal medications (polyenes, azoles, echinocandins)
    - Antiviral medications

- Obtain formal consultation data, including exposure and past medical history specifically relevant to infectious disease diagnoses, to prepare an appropriate differential diagnosis and diagnostic approach for these patients.

Methods

Medical Knowledge

- Participate in teaching sessions and conferences (as outlined below).
- Complete the suggested readings and other supplementary information provided via Blackboard, as well as any additional information provided by the faculty mentor during the rotation as it may pertain to specific patients or clinical scenarios.

Patient Care

- Evaluate inpatients on the consult service. This will consist on performing visits with history, physical exam and reassessment with progress note writing each morning on all established patients. These patients will be discussed and examined and subsequent teaching rounds with the infectious disease fellow and attending. Additionally, new consults will be assigned throughout the
Patient Care (continued)
- Day as requested by other hospital services.
- Daily rounds on established patients typically occur in the morning.
- Afternoons, typically involve new patient consultations, outpatient clinics, or independent study and/or didactic experiences (as time allows)
- Attend outpatient infectious disease clinic for at least one session during your elective to observe the unique aspects of ambulatory evaluation in subspecialty care.

Evaluation

Medical Knowledge
- Written pre and post-rotation examination to identify areas for focus and improvement (10%)
- Faculty evaluation of didactic presentation. (10%)

Patient Care
- Global performance evaluation (80%)

Scheduled Activities (UNMC College of Medicine Required Reporting)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds (Clinic)</td>
<td>40 hrs/wk</td>
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<tr>
<td>Research Project (optional)</td>
<td>0 hrs/wk</td>
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<tr>
<td>Didactic Conferences</td>
<td>5 hrs/wk</td>
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<tr>
<td>Independent Patient Care</td>
<td>0 hrs/wk</td>
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<tr>
<td>Independent Learning</td>
<td>5 hrs/wk</td>
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Contact Information

Elective Director: Jessica Snowden, M.D. (jsnowden@unmc.edu)
Faculty: H. Dele Davies, M.D.; Shirley DeLair, M.D.; Andrea Green Hines, M.D.; Kari Neemann, M.D.; Stephen Obaro, M.D.; Kari Simonsen, M.D.; Jessica Snowden, M.D.
Administrative Contact: Raven VonBehren 402-955-4005; rvonbehren@childrensomaha.org
Office Location: Children’s Hospital, Scott Pavilion, 2nd floor
Offered: Monthly
Max # Students/Period: 1