



### ***EXPERIENTIAL PROGRAMS***

***Preceptor Name: Kelly L. Matson, Pharm.D.***  
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#### ***Rotation Description***

**Pediatric Infectious Diseases**  
**Location: Hasbro Children's Hospital**  
**593 Eddy Street**  
**Providence, RI 02903**

**Site Description Information:** As part of Lifespan and Rhode Island Hospital, Hasbro is a tertiary care children's hospital, which annually cares for some 7,000 inpatients and 60,000 outpatients. Students will be rounding in various locations throughout the hospital, including pediatric general medicine wards, pediatric ID ambulatory clinics, and pediatric and neonatal intensive care units.

This 5-week pediatric infectious diseases rotation will introduce PharmD students to common pediatric infections and antimicrobial therapies, as well as individualize dosing and pharmacokinetic monitoring. Students will attend daily rounds with pediatric ID team to develop a better understanding of their patients. Patient profiles will be maintained for each patient followed by the students in order to help facilitate pharmacotherapy case discussion sessions with the preceptor. Other rotation requirements include journal club, formal oral case presentation with supporting primary literature, SOAP-format cases, and written drug information questions. Students are also expected to attend weekly pediatric ID conferences and general pediatrics grand rounds.

#### **Goals/Objectives:**

1. Gain an understanding of common pediatric infectious disease states and their therapies and provide optimal pharmacotherapy for a specific patient
2. Develop, implement, monitor, and evaluate patient-specific pharmacotherapy as below:

- a. Collect, generate, and organize all patient specific information needed by the pharmacist to detect and resolve drug-related problems and to make appropriate antimicrobial therapy decisions
  - b. Appraise patients' current drug and non-drug therapy based on an integration of pathophysiologic, pharmacotherapeutic, pharmacokinetic, pharmacodynamic, economic, ethical, and legal considerations to as well as knowledge of the current literature to determine the presence of any of the following drug therapy problems:
    - i. Drugs used with no medical indication
    - ii. Medical conditions for which there is no drug prescribed
    - iii. Drugs prescribed inappropriately for a particular medical condition
    - iv. Inappropriate drug therapy regimen (i.e., dose, schedule, route of administration, serum concentrations)
    - v. Presence of therapeutic duplication/polypharmacy
    - vi. Presence of patient drug allergies
    - vii. Potential or presence of adverse drug events
    - viii. Presence of clinically significant drug-drug, drug-disease, drug-nutrient, or drug-lab interactions
    - ix. Inference with medical therapy by social or recreational drug use
    - x. Treatment problems arising from financial impact of drug therapy on the patient and/or their family
    - xi. Patient and/or caregiver lack of understanding of their drug therapy
  - c. Specify pharmacotherapeutic goals for a pediatric patient that integrate patient-specific data; age-specific, disease-specific, and drug-specific information; and ethical considerations
  - d. Design pharmacotherapeutic regimens, including modifications to existing drug therapy, that work to meet pediatric patients' pharmacotherapeutic goals
  - e. Recommend pharmacotherapeutic regimens to prescribers, caregivers, and when appropriate, to pediatric patients in a way that is systematic, logical, and secures consensus from prescribers, caregivers, and patients
  - f. Design monitoring plans for pharmacotherapeutic regimens of pediatric patients that effectively evaluate achievement of the patient-specific pharmacotherapeutic goals
3. Describe the following for all medicine administered to assigned patients:
- a. Indications for use and appropriateness of therapy
  - b. Mechanism(s) of action
  - c. Contraindications and precautions
  - d. Dosage and schedule

- e. Routes of administration
  - f. Onset and duration of action
  - g. Drug-drug interactions, drug-lab interactions, drug-nutrient interactions
  - h. Pharmacokinetics and biopharmaceutics
  - i. Influence of disease state on drug absorption
  - j. Therapeutic and toxic levels (if available)
  - k. Adverse effects
  - l. Alternative treatment available
  - m. Formulation and compatibilities
  - n. Cost effectiveness
4. Discuss the pathophysiology, clinical manifestations, drug treatment, and therapeutic parameters to monitor disease states encountered during the rotation and those assigned by the preceptor
  5. Develop communication and interpersonal skills for providing patient-specific consultations and recommendations, and provide written documentation of these activities
  6. Develop confidence in managing pharmacotherapeutic problems in the healthcare setting with physicians, nurses, and other healthcare professionals
  7. Participate in interdisciplinary continuing education activities (i.e. grand rounds, clinical conferences, and inservice programs)
  8. Refine skills in the retrieval, evaluation, and interpretation of pediatric drug information and provide concise, applicable, and timely responses to requests from healthcare providers and patients

**Projects and/or required activities:**

1. Attend and participate as a member of the pediatric infectious disease team on work rounds
2. Attend all educational conferences, including weekly pediatric ID conferences and weekly grand rounds
  - a. Pediatric ID antimicrobial curriculum: Pediatric ID conference room POB room 018 at 12pm on 1<sup>st</sup> Tuesday of the month
  - b. Brown ID conference: Miriam Hospital at 8:30am on Wednesdays
  - c. Pediatric ID case conference: Pediatric ID conference room POB room 018 at 12pm on Thursdays
  - d. Pediatric grand rounds: George Auditorium at 8:30am on Fridays
3. Present oral and written case presentations as well as other assignments, including journal club, topic discussions, and drug information responses
4. Participate in regularly scheduled informal case discussions with preceptor
5. Perform complete literature reviews and drug information searches

Be involved in on going independent reading involving current literature on the disease state and therapies encountered. This literature will be reviewed at informal discussions.

**Hours of service:** 8 am – 6 pm

**Name of person who students should contact prior to start of rotation:**

Kelly L. Matson, PharmD

Email: matson@uri.edu

Phone: 401.444.4676

**Student Immunization Record Required?** Yes, the Pharmacy Practice Office will fax the record to the RIH Volunteer Office.

**Is the social security number of the student required?** Not required prior to the first day of rotation.

**Site restrictions (Examples body piercing, artificial nails):** **Artificial nails are not permitted.**