

Title:

Prospective Surveillance Study of Antimicrobial Utilization in Hospitalized Children

Faculty Mentor:

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Faculty Mentor Department:

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Research Project Description:

Increasing levels of antimicrobial resistance are a growing threat in the pediatric population. Optimization of antimicrobial use in the acute care hospital setting is a key component of multifaceted strategies to slow the emergence of antimicrobial resistance. There are limited data, however, on how antimicrobials are currently used in hospitalized children to guide interventions to optimize use.

This is a prospective observational study of children admitted to UF Health Shands Children's Hospital. The primary aim of the study is to determine indications for antimicrobial use across units. Secondary aims will include identifying clinical scenarios associated with increased empirical antimicrobial utilization and potential areas for future intervention for optimizing therapy. With the help of the faculty mentor, student researchers will gain experience in electronic medical record review, database management, and data analysis. Presentation of results at local research forums and publication in a peer-reviewed journal are strongly encouraged.