

**Kaci Orr, Class 2024**

**Campus:** Baylor University Medical Center, Dallas, TX

**Research Area:** Antibiotic Prescribing for Pediatric Community-Acquired Pneumonia

**Mentor:** Maheswari Ekambaram, MD

**Launch Talks:** May 2022

**Awards:** MRC Awardee

Kaci Orr, a medical student at Texas A&M School of Medicine, is conducting a clinical research project under the guidance of [Maheswari Ekambaram, MD](https://www.chop.edu/doctors/ekambaram-maheswari), a first-year fellow with the Division of Infectious Diseases at Children's Hospital of Philadelphia (<https://www.chop.edu/doctors/ekambaram-maheswari>). In 2011, the Pediatric Infectious Disease Society (PIDS) and the Infectious Disease Society of America (IDSA) published the first set of evidence-based guidelines for the diagnosis and treatment of community-acquired pneumonia (CAP) in infants and children. Despite this, guideline-discordant prescribing that increases the risk of antibiotic-associated adverse events and antibiotic resistance is still a significant problem nationwide. We will analyze the variability in antibiotic prescribing for the management of CAP in pediatric patients across several Baylor Scott & White Health emergency departments in Central Texas and explore possible factors associated with this variability. Based on similar studies performed in inpatient and outpatient settings, we hypothesize that there will be a significant degree of variability in antibiotic prescribing for this condition and that non-clinical patient and clinician characteristics will be associated with this variability.