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Cefepime Heteroresistance is Prevalent Among Clinical Pseudomonas aeruginosa Bloodstream Isolates and is Associated with Emergence of Resistance in Patients with Hematologic Malignancies

Stephanie Egge is an Assistant Professor of Infectious Diseases at Oregon Health & Sciences University investigating heteroresistance and novel cephalosporin resistance among Gram-negative bacteria. She completed her internal medicine residency training 2017-2020 at Louisiana University Health Sciences Center and an infectious diseases clinical fellowship at University of Texas/MD Anderson Cancer(2020-2022). As a T32 research fellowship in the Gulf Coast Consortia's Training Program for Antimicrobial Resistance (TPAMR, 2022-2023), she worked under the mentorship of Dr. William R. Miller, MD (Weil-Cornell/Houston Methodist) where she gained expertise in pseudomonal cefiderocol heteroresistance, associated resistance markers/mechanisms, and impacts on unanticipated treatment failure associated with evolution to overt drug resistance. She has continued interest in unraveling mechanisms of pseudomonal antimicrobial resistance, identifying high risk clinical isolates/scenarios for treatment failure, and optimizing stewardship/treatment algorithms for common and novel anti-pseudomonal antibiotic use to optimize infection outcomes in the immunocompromised patient populations.

Selected Abstract