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***Probability of Target Attainment Analyses to Inform Ceftolozane/Tazobactam Dosing Regimens for Patients With Hospital-Acquired or Ventilator-Associated Bacterial Pneumonia and End-Stage Renal Disease Receiving Intermittent Hemodialysis***

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***Why is this article important to you?***
ASPECT-NP, a Phase 3 trial of ceftolozane/tazobactam in hospital-acquired/ventilator-associated bacterial pneumonia (HABP/VABP), excluded patients with end-stage renal disease (ESRD). This study utilized a modeling/simulation approach to inform optimal dosing in this population, using previously-published population pharmacokinetic (PK) models informed by clinical study data. Investigators conducted probability of target attainment simulations (PTA) in both plasma and epithelial lining fluid, for three different ceftolozane-tazobactam dosing regimens. Learners who complete this activity will be able to explain how modeling/simulation can help to inform optimal ceftolozane-tazobactam dosing and detail the steps involved when utilizing population PK models informed by clinical data.

**ACPE Accreditation Statement**
The American College of Clinical Pharmacology® is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education.
**UAN: 0665-0000-23-002-H01-P**– ACPE 1 Contact Hours
**Activity Type:** Knowledge-based **Format:** Home-study **Target Audience**: 'P'

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The Accreditation Council for Continuing Medical Education designates this journal CE activity for 1 *AMA PRA Category 1™* credit. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Target Audience**
Interprofessional team of Physicians, Pharmacists and PhDs.

**Learning Objectives**
After completing this activity, the learner will be able to:

1. Describe how a modeling/simulation approach can help inform optimal dosing in special populations;
2. Explain how PK/PD targets were chosen for ceftolozane and tazobactam in the PTA simulations;
3. Recall the dosing regimen that results in adequate PTA for patients with HABP/VABP and ESRD requiring intermittent hemodialysis.

**Requirements to Receive Credit**
To receive continuing education credit, the learner must register for the educational activity, study the provided journal article and complete the online learning Post-event Self-assessment, as well as the online course Evaluation and CME/CPE Certificate. Credits and CME/CPE Certificates must be claimed

within thirty (30) days of completing the article, Post-event Self-Assessment and Evaluation. Contact CE@ACCP1.org with any questions.

**Disclosures:**

Article Selection: Joseph S. Bertino Jr, PharmD, Editor-in-Chief, *The Journal of Clinical Pharmacology*, planner for this educational activity, has no relevant relationship(s) with ineligible companies to disclose.

Planners: Jack Chang, PharmD, Pharmacotherapy Fellow, planner for this educational activity, has no relevant relationship(s) with ineligible companies to disclose.

CE Reviewer: Robert Bies, PharmD, PhD, Associate Professor, Univ of Buffalo SUNY School of Pharmacy & Pharmaceutical Sciences, reviewer for this educational activity, has no relevant relationship(s) with ineligible companies to disclose.

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**Home Study Initial Release and Expiration Dates**
**Date of Issuance:** 02/02/2023
**Expiration Date:** 02/02/2026

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