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The Effects of the Early and Late Phases of Septic Shock on the Population Pharmacokinetics of Vancomycin

August 2025 – *The Journal of Clinical Pharmacology* (JCP)

Why is this article important to you?

Learners who complete this activity will have enhanced knowledge on the population pharmacokinetics (PK) of vancomycin in patients during the early and late phases of septic shock and the risk of acute kidney injury (AKI). This activity will examine the clinical implications of phase-specific PK differences and their relevance to vancomycin dosing strategies.



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: 0665-0000-25-027-H01-P – ACPE 1 Contact Hours

Activity Type: Knowledge-based **Format:** Home-study **Target Audience:** 'P'



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ACCME Accreditation Statement

The American College of Clinical Pharmacology® is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

ACCME Designation Statement

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, PhDs and other healthcare professionals interested in expanding their knowledge on vancomycin dosing for patients in septic shock.

Learning Objectives

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

1. Interpret the population PK model of vancomycin in early and late phases of septic shock patients;
2. Describe key pharmacokinetic response variations in early and late phase septic shock of vancomycin;
3. Apply PK model to simulate vancomycin AUC₀₋₂₄ and investigate its association with the occurrence of AKI.

Requirements to Receive Credit

In order to receive continuing medical education (CME) or continuing pharmacy education (CPE) credit, the learner must register for the educational activity, study the provided journal article, complete the online learning Self-assessment Post-test 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-test and Evaluation. Contact CE@ACCP1.org with any questions.

Disclosures:

Article Selection: John van den Anker, MD, PhD, Editor-in-Chief, JCP, selected the article for this course and has nothing to disclose.

Planner: Vatsalya Vatsalya, MD, PgD, MSc, MS, FRSM, FCP, Assistant Professor of Medicine, Univ of Louisville, planned the continuing education documentation for this course and has nothing to disclose.

CE Reviewer: Gagandeep Kwatra, MD, Additional Professor, All India Inst of Medical Sciences, served as the CE Reviewer and has nothing to disclose.

Schedule & Fees

JCP monthly Journal CE articles are generally released on the 1st or 2nd Tuesday of each month. They are priced in packages of January to December for each year. Packages are available at no cost to ACCP Members and \$75/calendar year to Non-members. Once you register, you have access to all of the Journal CE articles for the calendar year.

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Home Study Initial Release and Expiration Dates

Date of Issuance: 8/1/2025

Expiration Date: 8/1/2028

Online Location:

https://accp1.org/Members/ACCP1/4Continuing_Education/Journal_CE.aspx?hkey=adecf2ad-e111-4e26-92b5-bbd8ce8fda14