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Concept of Pharmacologic Target-Mediated Drug Disposition in Large-Molecule and Small-Molecule Compounds

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Why is this article important to you?

Target-mediated drug disposition (TMDD) is a term to describe a nonlinear pharmacokinetic (PK) phenomenon that is caused by high-affinity binding of a compound to its pharmacologic targets. As the interaction between a drug and its pharmacologic target belongs to the process of pharmacodynamics (PD), TMDD can be viewed as a consequence of “PD affecting PK.”. At the conclusion of this activity, learners will acquire foundational knowledge in the concept of target-mediated drug disposition and will be able to discuss how TMDD applies the kinetic profile of small- and large-molecule compounds.



Joint Accreditation Statement

In support of improving patient care, the American College of Clinical Pharmacology® (ACCP) is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE) and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

UAN: JA4008220-0000-20-005-H04-P– ACPE 1 Contact Hours

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

Continuing Nursing Education: 1 Contact hours.

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, Nurse Practitioners and Physician Assistants.

Learning Objectives

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

1. Identify relevant conditions supporting the concept of target-mediated drug disposition;
2. Compare and contrast PK/PD parameters for small-molecule and large-molecule compounds;
3. Identify characteristics impacting nonlinearity in target-mediated drug disposition.

Requirements to Receive Credit

In order 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, FCP, FCCP, Editor-in-Chief, JCP and Owner, Bertino Consulting Inc. Nothing to disclose.

Planner: Steven J Crosby, MA, Assistant Dean, MCPHS Univ. Nothing to disclose.

CE Reviewer: Tamer E. Fandy, PhD, Associate Professor & Chair, Univ of Charleston. 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.

Acknowledgement of Financial Support

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Home Study Initial Release and Expiration Dates

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Expiration Date: 12/31/2022

Helpful Tips

Download the article and access the Self-assessment Post-test, Evaluation and Certificate [here](#).

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