

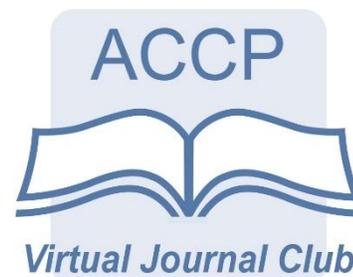
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Concept of Pharmacologic Target-Mediated Drug Disposition in Large-Molecule and Small-Molecule Compounds

2020 ACCP Virtual Journal Club Webinar

Live Session: Wednesday, May 20, 2020 from 2:00 PM to 3:00 PM ET

On Demand: May 20, 2020 to May 20, 2023



Why is this webinar important to you?

Target-mediated drug disposition (TMDD) is a term to describe a nonlinear pharmacokinetics (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”. Both large-molecule and small-molecule compounds can undergo TMDD. Learners that complete this course will explain how TMDD happens; why large-molecule and small-molecule compounds exhibiting TMDD demonstrate substantially different nonlinear PK behaviors; what nonlinear PK profiles look like in large-molecule and small-molecule compounds exhibiting TMDD; and how to identify whether the nonlinear PK of a compound is because of TMDD.



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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: JA4008220-0000-20-038-L01-P– ACPE 1 Contact Hours

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

ACCME Designation Statement

The Accreditation Council for Continuing Medical Education designates this live and enduring 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) Articulate how target-mediated drug disposition (TMDD) happens;
- 2) Describe why large-molecule and small-molecule compounds exhibiting TMDD demonstrate substantially different nonlinear pharmacokinetic (PK) behaviors;
- 3) Visualize and evaluate what nonlinear PK profiles look like in large-molecule and small-molecule compounds exhibiting TMDD;
- 4) Identify whether the nonlinear PK of a compound is because of TMDD.

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, attend the Live webinar or view the On-Demand webinar, 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 webinar, Post-test and Evaluation. Contact CE@ACCP1.org with any questions.

Disclosures:

Author/Faculty: Guohua An, MD, PhD, Assistant Professor, Div of Pharmaceutics & Translational Therapeutics, Univ of Iowa-Nothing to disclose.

Moderator/Planner: Alexander J. Prokopienko, PharmD, PhD, Clinical Pharmacologist, Translational Medicine, Vertex Pharmaceuticals Inc-Employee & stock options/Vertex Pharmaceuticals Inc

CE Reviewer: Steven J Crosby, MA, BSP, RPh, Assistant Dean, Student Engagement & Success, MCPHS Univ-Nothing to disclose.

Schedule & Fees

ACCP webinar programs occur several times per year. Registration for the webinars are required, but are free of charge to all learners.

Acknowledgement of Financial Support

No financial support was received for this educational activity.

Home Study Initial Release and Expiration Dates

Date of Issuance: May 20, 2020

Expiration Date: May 20, 2023

Helpful Tips

For best audio and visual quality, we recommend viewing the webinar in the Chrome browser. If you do not have Chrome, you may download it [here](#).

Test your browser compatibility before the webinar by clicking [here](#).

Download the article and slide handouts and access the webinar [here](#).

For help during the webinar, please call (571) 291-3493 ext 4.

Learn how to print your CME/CPE Certificate [here](#).
