

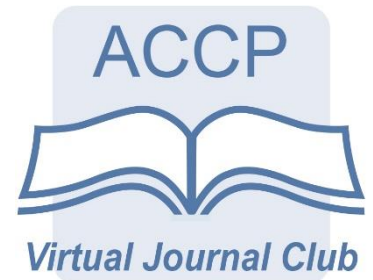
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Physiologically Based Pharmacokinetic Models to Predict Maternal Pharmacokinetics and Fetal Exposure to Emtricitabine and Acyclovir

2020 ACCP Virtual Journal Club Webinar

Live Session: Wednesday, November 18th, 2020 from 2:00 to 3:00 PM ET

On Demand: November 18, 2020 to November 18, 2023



Why is this webinar important to you?

Pregnancy is associated with physiological changes that may impact drug pharmacokinetics (PK). The goals of this study were to build maternal-fetal physiologically-based pharmacokinetic (PBPK) models for acyclovir and emtricitabine, two antiretroviral drugs with active renal net secretion and to (1) evaluate the predicted maternal PK at different stages of pregnancy; (2) predict the changes in PK target parameters following the current dosing regimen of these drugs throughout pregnancy; (3) evaluate the predicted concentrations of these drugs in the umbilical vein at delivery; (4) compare the model performance for predicting maternal PK of emtricitabine in the third trimester with that of previously published PBPK models and (5) compare different previously-published approaches for estimating the placental permeability of these two drugs. Learners that complete this course will be able to recognize how to predict maternal pharmacokinetics and fetal exposure of emtricitabine and acyclovir using comparative physiologically based pharmacokinetic modeling.



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UAN: JA4008220-0000-20-052-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) Recognize the value of using physiologically-based pharmacokinetic models to predict maternal pharmacokinetic parameters for use in clinical studies;
- 2) Recognize the value of using physiologically-based pharmacokinetic models to predict fetal exposure through placental transfer of drug;
- 3) Compare the predictive performance of different physiologically-based pharmacokinetic models for estimating maternal pharmacokinetic parameters for emtricitabine and acyclovir;

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- 4) Compare the predictive performance of different physiologically-based pharmacokinetic models for estimating placental permeability for emtricitabine and acyclovir.

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: Gilbert J. Burckart, PharmD, Associate Director for Pediatrics, Clinical Pharmacology, US Food & Drug Administration. Nothing to disclose.

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Author/Faculty: Jeremiah D. Momper, PharmD, PhD, Associate Professor, Pharmaceutical Sciences, Univ of California San Diego. research support paid to my institution: Gilead Sciences Inc; consulting/research: Veloxis Pharmaceuticals A/S; consulting fees/independent contractor: Athenahealth Inc; consulting fees/independent contractor: IMS Expert Services; stocks/Selva Therapeutics; stocks/Genomics Inc; stocks (spouse) Illumina Inc

Moderator/Planner: Otito Frances Iwuchukwu, RPh, PhD, Assistant Professor, Pharmaceutical Sciences, Fairleigh Dickinson Univ School of Pharmacy. Nothing to disclose.

CE Reviewer: Oliver Grundmann, PhD, Clinical Associate Professor, Medicinal Chemistry, Univ of Florida. 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: November 18, 2020

Expiration Date: November 18, 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.

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