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Prediction of Pediatric Pharmacokinetics for CYP3A4 Metabolized Drugs: Comparison of the Performance of Two Hepatic Ontogeny Within a Physiologically Based Pharmacokinetic Model

September 2024 – *The Journal of Clinical Pharmacology* (JCP)

Why is this article important to you?

This activity provides a comparison of the ontogeny of Salem and the Upreti ontogeny for pediatric physiologically-based pharmacokinetic models. The current analysis provides insight into the predictive potential of the Salem and Upreti ontogeny. Learners that complete this activity will be able to evaluate ontogeny models among various CYP3A4 substrates. CYP3A4 is a principle enzyme involved in the interaction potential and metabolic fate of numerous drugs, and this activity provides further evidence for substrate performance in these ontogeny models.



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: 0665-0000-24-028-H01-P – ACPE 1 Contact Hours

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



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ACCME Accreditation Statement

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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, Physician Assistants, Pharmacists, PhDs and Nurses interested in expanding their knowledge in comparing ontogeny models to inform pediatric drug response.

Learning Objectives

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

1. Identify existing experimental limitations in previously-published ontogeny analyses;
2. Differentiate among CYP 3A4 substrates used in the ontogeny analyses;
3. Compare the performance of the Salem and Upreti ontogeny;
4. Compare ontogeny performance based on age stratification.

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: Steven J. Crosby, MA, BSP, RPh, FASCP, FCP, Associate Dean, Associate Professor of Pharmacy Practice, Massachusetts Coll of Pharmacy & Health Sciences, planned the continuing education documentation for this course and has nothing to disclose.

CE Reviewer: Gagandeep Kwatra, MBBS, MD, Additional Professor, Pharmacology, All India Inst of Medical Sciences, Bathinda, India, 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

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