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## ***Pharmacokinetics-Based Pediatric Dose Evaluation and Optimization Using Saliva: A Case Study***

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

### **Why is this article important to you?**

This activity will equip healthcare professionals with information on safe and efficacious drug use in infants and children supported by the pharmacokinetics (PK)-based pediatric dose evaluation and optimization.



### **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:** 0665-0000-24-026-H01-P – ACPE 1 Contact Hours

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



**ACCME**  
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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, Physician Assistants, Pharmacists, PhDs and Nurses interested in expanding their knowledge on PK-based dose evaluation and optimization in pediatric populations.

### **Learning Objectives**

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

1. Identify key characteristics of age-appropriate dose-estimation criteria along with exposure data in bodily samples, primarily in plasma;
2. Interpret saliva-related non-compartmental analyses (NCA); and pharmacometrics (PMX) PK modeling of the metamizole metabolites in saliva and plasma samples;
3. Describe PK variability in saliva compared to plasma and challenges for the suitability as single matrix for PK modeling in infants;
4. Apply the outcomes of an open-label, prospective clinical study in children between three months to six years of age using a postoperative pain management medication for the indication of surgery for using saliva and plasma samples for PK characterization.

### **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](mailto: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, Assistant Professor of Medicine, Univ of Louisville, planned the continuing education documentation for this course and has nothing to disclose.
- CE Reviewer: Bruno Laviolle, PhD, Head, Clinical Investigation Center, Rennes Univ Hospital, France served as the CE Reviewer and has nothing to disclose.

**Schedule & Fees**

JCP monthly Journal CE articles are generally released on the 1<sup>st</sup> or 2<sup>nd</sup> 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**

No financial support was received for this educational activity.

**Home Study Initial Release and Expiration Dates**

**Date of Issuance:** 7/1/2024

**Expiration Date:** 7/1/2027

**Online Location:**

<https://ce.accp1.org/products/2024-accp-journal-of-clinical-pharmacology-journal-ce-monthly-ce-offerings>