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Randomized Population Pharmacokinetic Analysis and Safety of Intravenous Acetaminophen for Acute Postoperative Pain in Neonates and Infants

January 2020 – *The Journal of Clinical Pharmacology* (JCP)

Why is this article important to you?

At the conclusion of this activity, learners will be able to summarize the pharmacokinetic and pharmacodynamic properties and safety profile of acetaminophen after intravenous administration in neonate and infant patients. Learners will also be able to define acetaminophen dose in neonate and infant patients based on the population pharmacokinetic analysis of data obtained from clinical trials. Clinicians will be able to describe how the pharmacokinetic profile of acetaminophen informs tailoring of treatment to neonate and infant patients in the management of acute postoperative pain.



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: JA4008220-0000-20-002-H01-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. Utilize population pharmacokinetic modeling in the determination of acetaminophen dose in specific patient populations such as neonates and infants;
2. Describe the differences in acetaminophen exposure between different age groups (neonate, infant, adolescent and adult patients);
3. Explain the correlation between the pharmacokinetic data and safety and efficacy of intravenous acetaminophen.

Requirements to Receive Credit

In order to receive continuing education credit, the learner must register for the educational activity, study the provided journal article, 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: Hisham Qosa, PhD, Research Fellow, US Food & Drug Administration, Office of Clinical Pharmacology. Nothing to disclose.

CE Reviewer: Steven Tung, MD, JD, Fellow (Prospective), The Ohio State Univ, Critical Care Medicine/Anesthesiology Dartmouth. 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

No financial support was received for this educational activity.

Home Study Initial Release and Expiration Dates

Date of Issuance: 01/01/2020

Expiration Date: 12/31/2023

Helpful Tips

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

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