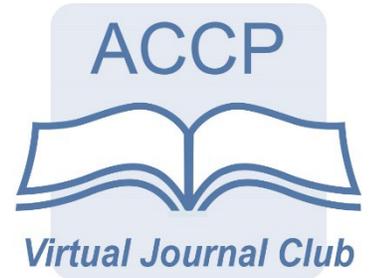


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Quantifying the Pharmacodynamics of Morphine in the Treatment of Postoperative Pain in Preverbal Children

2022 ACCP Virtual Journal Club Webinar

Live Session: Wednesday, August 10th, 2022 from 2:00 to 3:00 PM ET

On Demand: August 10th, 2022 to August 10th, 2025

Why is this webinar important to you?

While the pharmacokinetics of morphine has been studied extensively, there is only limited study into the pharmacodynamics of morphine for postoperative use in children. The effects of morphine in children after surgery are generally registered using behavior pain scales like the COMFORT-Behavior (COMFORT-B) scale. This scale consists of six behavioral items that quantify pain-associated behavior and symptoms as a proxy for the level of pain, each ranging from 1 (low distress/pain) to 5 (high distress/pain). As such, the total COMFORT-B score ranges from 6 to 30, for which scores of 11 to 16 are clinically aimed for during titration. To quantify the concentration-effect relationship of morphine for postoperative pain in preverbal children between 0 and 3 years of age, we applied Item Response Theory modeling in the pharmacokinetic/pharmacodynamic analysis of COMFORT-B scale data from two previous pediatric clinical studies. Learners that complete this course, will be able to explain the pharmacodynamics of morphine across the pediatric age range.



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: 0665-0000-22-003-L01-P – ACPE 1 Contact Hours

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



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

Physicians, Pharmacists, PhDs and Physician Assistants.

Learning Objectives

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

- 1) Define the target concentration of morphine throughout childhood;
- 2) Identify non-responders to morphine up-titration.

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. Credits and CME/CPE Certificates must be claimed within thirty (30) days of completing the live webinar, Post-test and Evaluation. Contact CE@ACCP1.org with any questions.

Disclosures:

Author/Faculty: Catherijne AJ Knibbe, PhD, PharmD, Faculty has no relevant financial relationship(s) with ineligible companies to disclose.

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CE Reviewer: Arum Ram, MD, Reviewer has no relevant financial relationship(s) with ineligible companies 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: August 10, 2022

Expiration Date: August 10, 2025

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](#).
