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Accurate Prediction of Initial Busulfan Exposure Using a Test Dose With 2- and 6-Hour Blood Sampling in Adult Patients Receiving a Twice-Daily Intravenous Busulfan-Based Conditioning Regimen

May 2019 – *The Journal of Clinical Pharmacology* (JCP)

Why is this article important to you?

Learners will be able to ascertain that sparse sampling with a Bayesian population PK model can be used reliably to estimate exposure. Learners will be able to understand the details of the model and use sparse sampling approach for initial personalized dosing in hematopoietic cell transplant recipients.



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: 0238-0000-19-032-H01-P – ACPE 1 Contact Hours

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



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, Pharmacists, PhDs, Nurse Practitioners and Physician Assistants.

Learning Objectives

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

1. Explain a busulfan population PK model with Bayesian approach in hematopoietic cell transplant recipients;
2. Identify the differences between different sampling schemes to estimate the AUC;
3. Use the sparse sampling approach to personalize initial busulfan dosing in clinical practice.

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: Joseph Bertino, PharmD, FCP, FCCP, Editor-in-Chief, JCP and Owner, Bertino Consulting Inc, selected the article for this course and has nothing to disclose.

Planner: Ravi Shankar Singh, PhD, Associate Director, Pfizer Inc, Clinical Pharmacology, Early Clinical Development, has nothing to disclose related to this educational content.

CE Reviewer: Ahmed A. Abulfathi, MBBS, MMed, FCCP (SA), PhD candidate, Stellenbosch Univ, Medicine/Clinical Pharmacology, 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

Date of Issuance: 5/1/2019

Expiration Date: 12/31/2022

Helpful Tips

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