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Population Pharmacokinetics of Tacrolimus in Transplant Recipients: What Did We Learn About Sources of Interindividual Variabilities?

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

Why is this article important to you?
Learners who complete this educational course will be able to identify and better understand the contribution and role of population pharmacokinetic modeling, aimed at improving the management of tacrolimus as immunosuppressive therapy, among organ transplant recipients. Specifically, learners will gain insight into the collective data supporting the identification and characterization of variability in pharmacokinetic parameters and measures based on clinical and patient level factors. Additionally, they will be able to recognize the strength of evidence for the utility of these factors to account for sources of intra- and inter-patient variability in tacrolimus exposure.

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: 0238-0000-19-028-H01-P – ACPE 1 Contact Hours
Activity Type: Knowledge-based **Format:** Home-study **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
Interprofessional team of Physicians, Pharmacists, PhDs, Nurse Practitioners and Physician Assistants.

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

1. Describe sources of variability associated with tacrolimus exposure after organ transplantation based on population pharmacokinetic modeling to date;
2. Identify how inter- and intra-patient variability in tacrolimus exposure has been analyzed through the application of nonlinear mixed-effects modeling;
3. Explain the relationship between tacrolimus concentration sampling strategies and constraints on model structure;
4. List current needs and challenges in quantifying variability in tacrolimus exposures.

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: Jonathan Constance, PhD, Research Assistant Professor, Univ of Utah, Pediatrics/Clinical Pharmacology, has nothing to disclose.

CE Reviewer: Tamer Fandy, MSc, PhD, BCGP, Associate Professor, Univ of Charleston School of Pharmacy, Pharmaceutical & Administrative Sciences, 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.

Acknowledgement of Financial Support

No financial support was received for this educational activity.

Home Study Initial Release and Expiration Dates

Date of Issuance: 2/20/2019

Expiration Date: 12/31/2022

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.
