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Impact of SLCO1B1 Genotype on Pediatric Simvastatin Acid Pharmacokinetics

June 2018 – *The Journal of Clinical Pharmacology (JCP)*

Why is this article important to you?

Learners that complete this course will be able to identify and interpret the role of genetic variations in drug transporters that influence the pharmacokinetics of simvastatin acid in pediatric patients.



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: 0238-0000-18-032-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*TM 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) Identify specific pathways that play a major role in biotransformation of simvastatin;
- 2) Compare the effect of different genetic variants of drug transporter (SLCO1B1) on systemic exposure of simvastatin in pediatric patients;
- 3) List the clinical implications of prescribing simvastatin in pediatric patients without any knowledge of their genotype;
- 4) Describe the limitations of using adult kinetic data to determine pediatric doses of simvastatin.

Requirements to Receive Credit

In order to receive CE credit, the learner must register for the educational activity, study the provided journal article, complete the online learning self-assessment (post-test), complete the online course evaluation and print the certificate.

Disclosures:

Article Selection: Joseph Bertino, PharmD, FCP, FCCP, Editor-in-Chief, JCP; Owner, Bertino Consulting Inc, has nothing to disclose.

Planner: Elisha Injeti, PhD, Associate Professor of Pharmaceutical Sciences, Cedarville University School of Pharmacy, who developed the continuing education portion of this activity (target audience, goals and objectives and questions with solutions), has nothing to disclose.

CE Reviewer: Otito Iwuchukwu, RPh, PhD, Assistant Professor of Pharmaceutical Sciences, Fairleigh Dickinson University, 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 Jan - Dec 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

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Expiration Date: 6/1/2021

Online Location:

[https://accp1.org/Members/Continuing_Education/Journal_CE/ACCP1/4Continuing_Education/Journal_C
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