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Characterization of Renal OAT3 and Hepatic CYP3A Activities in Pregnant Women with Acute Pyelonephritis Using the Endogenous Biomarker Cortisol and 6β-Hydroxycortisol

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Why is this article important to you?
Learners that complete this activity will learn how to evaluate the *in vivo* activity of renal OAT3 and hepatic CYP3A using endogenous biomarkers (EB) in pregnant women both before antibiotic treatment and after the resolution of acute pyelonephritis. This activity will cover strategies to enhance knowledge on the *in vivo* activity of renal OAT3 and hepatic CYP3A using EB in pregnant women.

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: 0665-0000-25-007-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 and other healthcare professionals interested in expanding their knowledge on using endogenous biomarkers in pregnant women.

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

1. Identify the impact of acute pyelonephritis on pregnant women OAT3 renal activity;
2. Discuss the use of the endogenous biomarker (EB) 6β hydroxycortisol (6β-OHF) to assess renal clearance;
3. Identify the probe medication used to assess OAT3 activity;
4. Describe the treatment duration with the antibiotic cefuroxime 750 mg TID for acute pyelonephritis that effected the EB.

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:	John van den Anker, MD, PhD, Editor-in-Chief, JCP, selected the article for this course and has nothing to disclose.
Planner:	Michael Jann, PharmD, Professor, Univ of Texas Health Science Ctr Coll of Pharmacy, planned the continuing education documentation for this course and has nothing to disclose.
CE Reviewer:	Mathangi Gopalakrishnan, PhD, Associate Professor, Univ of Maryland School of Pharmacy, served as the CE Reviewer and 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
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Expiration Date: 5/1/2028

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