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Is Moxifloxacin a Treatment Option for Pancreatic Infections? A Pharmacometric Analysis of Serum and Pancreatic Juice

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

Why is this article important to you?

Following the completion of this activity, learners will gain knowledge on the use of nonlinear, mixed-effect modeling analysis as a tool to address a critical medical challenge in antibiotic postoperative therapy of local infections after pancreatic surgery.



Joint Accreditation Statement

In support of improving patient care, the American College of Clinical Pharmacology® (ACCP) is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE) and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

UAN: 0238-0000-19-039-H05-P– ACPE 1 Contact Hours

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

Continuing Nursing Education: 1 Contact hours are awarded.

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. Design and execute a PK and PD study for moxifloxacin in plasma and its penetration into pancreatic juice in patients undergoing pancreatic head resection and intraoperative placement of an external stent for pancreatic juice collection in the course after the resection;
2. Build and qualify a PK/PD model using nonlinear mixed-effect modeling approach for moxifloxacin in plasma and in pancreatic juice in patients undergoing pancreatic head resection and intraoperative placement of an external stent for pancreatic juice collection in the course after the resection;
3. Use the developed PK/PD model for moxifloxacin (MXF) in these patients to determine the PK determinants (such as AUC) that control MXF distribution into pancreatic juice and target attainment in bacterial isolates during pancreatic surgery;
4. Propose moxifloxacin doses and regimens that keep threshold minimum inhibitory concentrations (MICs) for gram-positive and gram-negative bacteria to be evaluated in clinical trials to treat patients with pancreatic infections.

Requirements to Receive Credit

In order to receive continuing medical education (CME), continuing pharmacy education (CPE) or continuing nursing education (CNE) credit, the learner must register for the educational activity, study the provided journal article, complete the online learning Post-event Self-assessment 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-event Self-Assessment and Evaluation. Contact CE@ACCP1.org with any questions.

Disclosures:

Article Selection: Joseph S. Bertino Jr, PharmD, FCP, FCCP, Editor-in-Chief, JCP and Owner, Bertino Consulting Inc. Nothing to disclose.

Planner: Sihem Bihorel, MS, PharmD, PhD, Assistant Professor, Univ of Florida, Pharmaceutics. Nothing to disclose.

CE Reviewer: Otito Frances Iwuchukwu, RPh, PhD, Assistant Professor, Fairleigh Dickinson Univ School of Pharmacy. 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

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Home Study Initial Release and Expiration Dates

Date of Issuance: 10/1/2019

Expiration Date: 12/31/2022

Helpful Tips

Download the article and access the Post-event Self-assessment, Evaluation and Certificate [here](#).

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