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Diagnostic Accuracy of Therapeutic Drug Monitoring During Tuberculosis Treatment

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Why is this article important to you?

Patients with tuberculosis (TB) coinfecting with HIV are more likely to have low blood concentrations of the first-line anti-TB drugs (associated with poor outcomes). Therapeutic drug monitoring (TDM) is recommended for certain patient populations with TB at increased risk for a poor outcome. The objective of this study was to estimate the diagnostic accuracy of a two-hour TDM serum sample for the first-line anti-TB drugs among patients with HIV/TB and evaluate the information gained by an additional six-hour sample. Learners that complete this activity will be able to explain the relationship between TB/HIV co-infection and changes in clinical outcomes of Anti tubercular medication.



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: 0665-0000-22-037-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 and PhDs.

Learning Objectives

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

1. Explain the relationship between TB/HIV co-infection and changes in clinical outcomes of Anti-tubercular medication;
2. Articulate the importance of TDM in patients with TB/HIV co-infection;
3. Explain the role of diagnostic accuracy of a two-hour TDM serum sample for the first-line anti-TB drugs among patients with HIV/TB;
4. Explain the role of Sparse serum TDM or the first-line anti-TB drugs among patients with HIV/TB infection.

Requirements to Receive Credit

To receive continuing education credit, the learner must register for the educational activity, study the provided journal article and 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, planner for this educational activity, has no relevant relationship(s) with ineligible companies to disclose.

Planners: Mirshad PV, PhD, planner for this educational activity, has no relevant relationships with ineligible companies.

CE Reviewer: Arun Ram, MD, reviewer for this educational activity, has no relevant relationship(s) with ineligible companies to disclose.

Schedule & Fees

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Acknowledgement of Financial Support

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Home Study Initial Release and Expiration Dates

Date of Issuance: 10/01/2022

Expiration Date: 10/01/2025

Helpful Tips

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