

mishra hk

Advanced

Search results

> Clin Infect Dis. 2012 Feb 1;54(3):384-8. doi: 10.1093/cid/cir824. Epub 2011 Dec 1.

The Use of an Automated Quantitative Polymerase Chain Reaction (Xpert MTB/RIF) to Predict the Sputum Smear Status of Tuberculosis Patients

Grant Theron ¹, Lancelot Pinto, Jonny Peter, Hemant Kumar Mishra, Hridesh Kumar Mishra, Richard van Zyl-Smit, Surendra Kumar Sharma, Keertan Dheda

Affiliations + expand

PMID: 22139854 PMCID: PMC3258275 DOI: 10.1093/cid/cir824

Free PMC article

Abstract

Xpert MTB/RIF-generated cycle-threshold (C(T)) values have poor clinical utility as a rule-in test for smear positivity (cut-point ≤20.2; sensitivity 32.3%, specificity 97.1%) but moderately good rule-out value (cut-point >31.8; negative predictive value 80.0%). Thus, 20% of individuals with C(T) values >31.8 were erroneously ruled out as smear-negative. This group had a significantly lower sputum bacillary load relative to correctly classified smear-positive patients (C(T) ≤ 31.8; P < .001). These data inform on public health and contact tracing strategies.

Comment in

An eXpert AFB smear?

Fennelly KP.

Clin Infect Dis. 2012 Feb 1;54(3):389-91. doi: 10.1093/cid/cir825. Epub 2011 Dec 1.

PMID: 22139853 No abstract available.