Journal Article Summary

Multiplex Assay for Simultaneous Detection of Mycoplasma genitalium and Macrolide Resistance Using PlexZyme and PlexPrime Technology

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Key Points

First clinical evaluation and peer-reviewed publication of ResistancePlus MG

Testing 400 samples from 254 (186 males and 68 females) consecutively infected participants, undergoing test of cure - 83% samples were positive, with 56% of positives carrying a macrolide resistance mutation.

Comparison of the ResistancePlus MG with a reference qPCR method for *M. genitalium* detection and high resolution melt analysis (HRMA) and sequencing for detection of macrolide resistance mutations.

Sensitivity and specificity for *M. genitalium* detection and for macrolide resistance of 99.1/98.5% and 97.4/100%, respectively.

Critical need for implementation of diagnostic testing combined with molecular detection of resistance, and antimicrobial surveillance.

Determined a considerable advantage of ResistancePlus MG in clinical settings through combined diagnosis and detection of macrolide resistance.