

## Antimicrobial susceptibility testing standards, 4/15

**April 2015—The Clinical and Laboratory Standards Institute released a new edition** of its annual supplement “Performance Standards for Antimicrobial Susceptibility Testing; Twenty-Fifth Informational Supplement (M100-S25).” This document provides the revised breakpoints, new testing recommendations, and reporting changes needed to incorporate into routine practice for improving detection and reporting of antimicrobial resistance. M100-S25 is published in tandem with its two related methodology standards, “Performance Standards for Antimicrobial Disk Susceptibility Tests; Approved Standard—Twelfth Edition (M02-A12)” and “Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically; Approved Standard—Tenth Edition (M07-A10).” Using procedures standardized in M02 and M07, M100 includes the essential data for drug selection, interpretation, and quality control needed for clinical practice.

M02-A12 contains the current CLSI-recommended methods for disk susceptibility testing, criteria for QC testing, and updated tables for interpretive zone diameters. M07-A10 addresses reference methods for the determination of minimal inhibitory concentrations of aerobic bacteria by broth macrodilution, broth microdilution, and agar dilution. Both M07-A10 and M02-A12 should be used in tandem with M100-S25.

M100-S25 provides updated tables for the CLSI antimicrobial susceptibility testing standards M02-A12, M07-A10, and “Methods for Antimicrobial Susceptibility Testing of Anaerobic Bacteria; Approved Standard—Eighth Edition (M11-A8).” The clinical importance of AST results requires that these tests be performed under optimal conditions and that laboratories have the capability to provide results for the newest antimicrobial agents. The tabular information presented in M100-S25 represents the most current information for drug selection, interpretation, and QC using the procedures standardized in the most current editions of M02, M07, and M11.

M100-S25 is available in print and electronic (PDF) formats in tandem with M02-A12, M07-A10, or both documents. An online implementation of M100-S25 called eM100 is also available.

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