



# Overview of Changes to the Clinical and Laboratory Standards Institute Performance Standards for Antimicrobial Susceptibility Testing, M100, 31st Edition

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**ABSTRACT** The Clinical and Laboratory Standards Institute (CLSI) Subcommittee on Antimicrobial Susceptibility Testing (AST) develops and publishes standards and guidelines for AST methods and results interpretation in an annual update to the Performance Standards for Antimicrobial Susceptibility Testing (M100). This minireview will discuss changes to M100 for the 31st edition, including new and revised breakpoints and testing recommendations. New MIC and disk diffusion breakpoints are described for azithromycin (*Shigella* spp.), imipenem-relebactam (*Enterobacteriales*, *Pseudomonas aeruginosa*, and anaerobes), and tefamulin (*Staphylococcus aureus*, *Haemophilus influenzae*, and *Streptococcus pneumoniae*), and disk breakpoints are described for azithromycin and *Neisseria gonorrhoeae*. The rationale behind revised oxacillin MIC breakpoints for select staphylococci is discussed. Updates to test methods include a method for disk diffusion using positive blood culture broth and use of linezolid to predict tedizolid susceptibility. There is clarification on which drugs to suppress on bacteria isolated from the cerebrospinal fluid and clarification on the use of a caret symbol attached to the intermediate category (I<sup>h</sup>) to indicate those antimicrobials that concentrate in the urine.

**KEYWORDS** antimicrobial susceptibility testing, CLSI, M100

The Clinical and Laboratory Standards Institute (CLSI) Subcommittee on Antimicrobial Susceptibility Testing (AST) is a volunteer-led, multidisciplinary consensus body that develops and publishes standards and guidelines for AST methods and results interpretation. A key activity of the CLSI AST subcommittee is educational activities, coordinated by the Outreach Working Group (ORWG). This article is one such activity and was created on behalf of the ORWG. Weinstein and Lewis recently reviewed in detail the process that guides preparation, acceptance, and publication of CLSI AST standards (1). In an open forum, volunteers from the health care professions, government, and industry present suggestions, supported by data, for ways to improve the standards. When sufficient information has been obtained, a vote is taken to determine if the suggestion will be incorporated into the standard, based on the CLSI consensus process (1). The work of the AST Subcommittee is published in an annual update to the Performance Standards for Antimicrobial Susceptibility Testing (also known as M100). A no-fee read-only version of the 31st edition of M100 is available online at <http://em100.edaptlivedocs.net/dashboard.aspx>, and a digital version for download or hard copy version of M100 and other CLSI documents can be ordered from clsi.org. This minireview will address the major changes in the 31st edition of the M100 document, published in March 2021 (2). At the beginning of each M100 is a listing of the "Overview of Changes" that occurred since the last edition of the document, including minor changes (e.g., formatting) that will not be covered in this review.

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# Performance Standards For Laboratory Personnel

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## **Performance Standards For Laboratory Personnel:**

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Guidelines for Laboratory Quality Auditing Doanld C. Singer, Ronald P. Upton, 2014-07-22 This single source reference provides practical guidance for the quality auditing of a chemical or biological testing laboratory helping to develop or improve quality control and quality assurance programs in order to meet certification standards or pass external source audits      *Clinical Laboratory Improvement Act of 1977* United States. Congress. Senate. Committee on Human Resources. Subcommittee on Health and Scientific Research, 1977      *Publications of the National Bureau of Standards* United States. National Bureau of Standards, 1980      *Umiker's Management Skills for the New Health Care Supervisor* Charles McConnell, 2010-10-25 Today's healthcare supervisors are continuously faced with smaller budgets fewer workers greater responsibilities and time pressure The all new Fifth Edition of Umiker's Management Skills for the New Health Care Supervisor continues to provide valuable information for future health care managers and supervisors who must address these challenges daily Written primarily for those who have little to no management training Umiker's offers practical suggestions for improving effectiveness both as a supervisor and as an organization Ideal for students in junior undergraduate community and career college programs author Charles McConnell maintains Bill Umiker's clear jargon free writing style      **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards, 1980      **Code of Federal Regulations** , 2008 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of with ancillaries      **The 1989 Omnibus Drug Program** United States. Congress. House. Committee on the District of Columbia. Subcommittee on Fiscal Affairs and Health, 1990

**Federal Register** , 1997-03      **Congressional Record** United States. Congress, 1977 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873      *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.), 1981      *Surviving an OSHA Audit* Frank R. Spellman, 2020-12-18 Hailed on its

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