

Antibiograms: New NCCLS Guidelines, Development, and Clinical Application

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Abstract — Antibiograms are an important resource for health care providers. All clinicians involved in antibiotic selection and monitoring should become familiar with the NCCLS M39-A document "Analysis and Presentation of Cumulative Antimicrobial Susceptibility Test Data: Approved Guideline." Providers who interpret and apply antibiogram data in clinical practice should know about susceptibility testing methods, the susceptibility breakpoint determination process, and problems associated with antibiogram data analysis. The M39-A guidelines contain more than 40 recommendations, including the following: antibiogram data should be analyzed at least annually; an attempt should be made to remove duplicate isolates, and only organisms with 10 isolates or more should be presented. Accurate antibiograms facilitate improved empiric antibiotic selection and more precise monitoring of bacterial resistance in the hospital. This article reviews common antimicrobial susceptibility testing methods and relevant issues, highlights the major NCCLS M39-A recommendations, discusses the antibiogram preparation process and challenges in data interpretation, and provides a general overview of how antibiogram data may be applied to clinical practice.

Key Words — antibiograms, NCCLS, M39-A, susceptibility reporting, susceptibility testing

Hosp Pharm — 2004;39:542-553

Antibiograms, when properly prepared and interpreted, are an important source of information for health care providers. The development of antibiograms should be a collaborative effort between microbiology, pharmacy, physicians, and hospital policy committees such as infection control and

anti-infective subcommittees.

Although the term "antibiogram" has different connotations, the NCCLS (formerly known as the National Committee for Clinical Laboratory Standards) defines antibiograms as the overall profile of antimicrobial susceptibility results of a microbial species to a battery of antimicrobial agents.¹ Data

from antibiograms are most useful when initiating empiric therapy and when tracking antimicrobial resistance trends over time within a hospital or health care system.

The lack of standardization in the preparation of hospital antibiograms may lead to the misinterpretation and misapplication of aggregate susceptibility data in making empiric antimicrobial decisions. The paucity of published data on the clinical application of institution-specific antibiogram data and related microbiologic reporting issues has further hindered efforts to maximize the use of these data in clinical practice.

To assist health care institutions, the NCCLS organization published a document entitled "Analysis and Presentation of Cumulative Antimicrobial Susceptibility Test Data: Approved Guideline" (NCCLS M39-A).¹

This article will review common antimicrobial susceptibility testing methods and relevant issues, highlight important NCCLS M39-A recommendations, discuss the antibiogram preparation process and challenges in data interpretation, and provide an overview of how antibiogram data may be applied to clinical practice.

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antibiotic-resistant bacteria : Thanks to penicillin-- He will come home! ,1995 **Food Safety and Foodborne Pathogen - A Global Perspective on the Diversity, Combating Multidrug Resistance and Management** Learn-Han Lee,Om V. Singh,Nurul-Syakima Ab Mutalib,Marta López,2020-12-11 A question raised by many individuals today How Safe is Our Food Consumed Today Food safety has become a hot topic and an important public issue due to the increasingly widespread nature of foodborne illnesses in both developed and developing countries As food is biological in nature and supplies consumers with nutrients it is also equally capable of supporting the growth of microorganisms from the environmental sources A precise method of monitoring and detecting of foodborne pathogens including Salmonella sp Vibrio sp Listeria monocytogenes Campylobacter and Norovirus is needed to prevent and control human foodborne infections Clinical treatments of infection caused by foodborne pathogens are becoming tougher with the increase number of multidrug resistant pathogens in the environment This situation creates a huge healthcare burden e g prolonged treatment for infections decrease in the efficacy of antibiotic delay in treatment due to unavailability of new antibiotics and increased number of deaths As such continuous investigation of the foodborne pathogens is needed to pave the way for a deeper understanding on the foodborne diseases and to improve disease prevention management and treatments *Antibiotics in Laboratory Medicine* Daniel Amsterdam,2014-08-08 Antibiotics in Laboratory Medicine has been a mainstay resource for practitioners providers investigators and pharmaceutical researchers of new anti infective compounds for the past 30 years This edition includes new chapters on the predictive value of in vitro laboratory testing and the improvement of patient care in the hospital environment through antimicrobial stewardship **Emerging Infectious Diseases** ,2005 Koneman's Color Atlas and Textbook of Diagnostic Microbiology Elmer W. Koneman,2006 Long considered the definitive work in its field this new edition presents all the principles and practices readers need for a solid grounding in all aspects of clinical microbiology bacteriology mycology parasitology and virology Tests are presented according to the Clinical and Laboratory Standards Institute formerly NCCLS format This extensively revised edition includes practical guidelines for cost effective clinically relevant evaluation of clinical specimens including extent of workup and abbreviated identification schemes New chapters cover the increasingly important areas of immunologic and molecular diagnosis Clinical correlations link microorganisms to specific disease states Over 600 color plates depict salient identification features of organisms

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Green,2008-08-29 The field of microbiology has developed considerably in the last 20 years building exponentially on its own discoveries and growing to encompass many other disciplines Unfortunately the literature in the field tends to be either encyclopedic in scope or presented as a textbook and oriented for the student Finding its niche between these two pol

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Polish Journal of Microbiology, 2006

Kucers' The Use of Antibiotics M. Lindsay Grayson, Sara Cosgrove, Suzanne Crowe, William Hope, James McCarthy, John Mills, Johan W. Mouton, David Paterson, 2017-10-02 Kucers The Use of Antibiotics is the definitive internationally authored reference providing everything that the infectious diseases specialist and prescriber needs to know about antimicrobials in this vast and rapidly developing field The much expanded Seventh Edition comprises 4800 pages in 3 volumes in order to cover all new and existing therapies and emerging drugs not yet fully licensed Concentrating on the treatment of infectious diseases the content is divided into four sections antibiotics anti fungal drugs anti parasitic drugs and anti viral drugs and is highly structured for ease of reference Each chapter is organized in a consistent format covering susceptibility formulations and dosing adult and pediatric pharmacokinetics and pharmacodynamics toxicity and drug distribution with detailed discussion regarding clinical uses a feature unique to this title Compiled by an expanded team of internationally renowned and respected editors with expert contributors representing Europe Africa Asia Australia South America the US and Canada the Seventh Edition adopts a truly global approach It remains invaluable for anyone using antimicrobial agents in their clinical practice and provides in a systematic and concise manner all the information required when prescribing an antimicrobial to treat infection

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