



In This Issue:

- ◆ 2009 Community-Wide Antibioqram
Now Available Online

December 17, 2010

Vol. 30, No. 16

Telephone (775) 328-2447

Fax (775) 328-3764

epicenter@washoecounty.us

 WASHOE COUNTY HEALTH DISTRICT • P.O. BOX 11130 • RENO, NEVADA • 89520-0027 • (775) 328-2447

2009 COMMUNITY-WIDE ANTIBIOGRAM NOW AVAILABLE ONLINE

Know the Local Data, Prevent Antimicrobial Resistance

What is an antibiogram?



According to the Clinical and Laboratory Standards Institute (CLSI), formerly the National Committee for Clinical Laboratory Standards (NCCLS), an "antibiogram" is an overall profile of antimicrobial susceptibility of a microbial species to a battery of antimicrobial agents.^[1]

(Source of logo: Nevadans for Antibiotic Awareness)

Why a community-wide antibiogram?

One of the 12 steps to prevent antimicrobial resistance in various healthcare settings recommended by the Centers for Disease Control and Prevention (CDC) is to encourage clinicians to use local data. Please refer to CDC's website (<http://www.cdc.gov/drugresistance/healthcare/patients.htm>) for details.

How is a community-wide antibiogram compiled?

Local hospitals and some private laboratories produce annual antibiograms for their institutions only. Between 2002 and 2006, the Washoe County Health District (WCHD) has compiled institution-based antibiograms and aggregated data to generate the community-wide antibiogram. Data were provided by clinical and private laboratories in Washoe County. The data were derived from the diagnostic laboratory tests among all inpatients in local hospitals and outpatients seen in private clinics where Quest or LabCorp were used. Since 2007, antibiogram data for private laboratories have been unavailable, therefore 2007 and 2009 antibiogram data only covered all inpatients in local hospitals and outpatients seen at local

hospital emergency rooms. Antibiogram 2008 was not generated.

When is the community-wide antibiogram produced?

Because data are provided at different times by different organizations, the completion of the community-wide antibiogram prior to July of each year is unlikely. Generally, the community-wide antibiogram is available between October and December each year depending on the timing of receipt of the final version of all institutional antibiograms.

Who should use this antibiogram?

This antibiogram can be used as a reference for clinicians, infection control practitioners, pharmacists, microbiologists, public health professionals, and other interested parties. For clinicians working in hospitals, the hospital-specific antibiogram prepared by the hospital infection control committee or hospital microbiologists is preferred, as antimicrobial resistance varies greatly between different locales. For other health care professionals, please refer to the Health District's website at <http://www.washoecounty.us/health/cdpp/warr.html> and click the link for [2009 Antibioqram](#).

Is this document useful?

The usefulness of the antibiogram was evaluated by WCHD. In 2005, survey forms along with 2004 antibiograms were sent to 741 registered physicians with valid mailing addresses in Washoe County. A total of 72 physicians responded to the survey; the overall rank was eight (8) on a scale of 1-10 (*10-the most useful, and 1-the least useful*). Sixty-two percent (62%) of respondents used either a community-wide antibiogram or institutionalized antibiogram in a hospital to modify their prescribing practices. The majority (92%) of respondents indicated a desire

to receive an antibiogram every year from the Health District. About one-third of respondents provided excellent suggestions, such as making the document available in a PDA format. Beginning with the 2006 antibiogram, four different versions can be downloaded from the Health District's website.

How many are actually using community-wide antibiogram?

Antibiogram 2007 was uploaded to WCHD's website in December 2008. During 22 month period between December 2008 and November 2010 (data for two months were not available due to a server problem), there were 12,659 visits, i.e., an average 575 visits per month. One visit is counted if the visit comes from one IP address within 15 minutes regardless of the number of hits. Out of all visits, 10,103 visits (80%) were for the online format, 891 visits (7%) were for the pocket size format, and 541 visits (4%) were for the wall-chart format. The usage of the Pocket PC format (PDA) was extremely low (less than 1%).

What is in the community-wide antibiogram?

- ◆ Antibiotic susceptibility (%) data for 18 commonly seen organisms.
- ◆ Graphic presentation of 2002-2009 antibiotic susceptibility (%) trend data in Washoe County.
- ◆ Summary of major findings on Methicillin-resistant *Staphylococcus aureus* (**MRSA**), Drug Resistant *Streptococcus Pneumoniae* (**DRSP**), Vancomycin-resistant *Enterococci* (**VRE**), Extended-spectrum beta-lactamase (**ESBLs**), and Carbapenem-resistant enterobacteriaceae (**CRE**).

What is NEW in the 2009 antibiogram?

- ◆ Screening data for production of extended spectrum beta-lactamase (ESBLs) was available from one local laboratory.
- ◆ This is the first time the rate of CRE is included in the antibiogram.
- ◆ Three (3) formats of the 2009 Antibiogram can be downloaded from the Health District's website at www.washoecounty.us/health/cdpp/warr.html to meet the majority of end users' needs. The Pocket PC format was removed due to low usage.

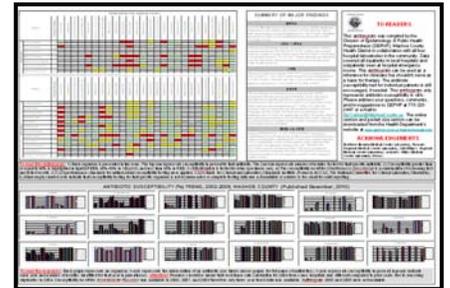
These three formats are:

- ✓ **Online format** can be easily browsed on a device (e.g., computer, laptop, iPhone, SmartPhone, etc.) with internet access.



- ✓ **Pocket size** format is a colored copy on legal sized paper and can be folded into a pocket size (easy to carry).

- ✓ **Wall chart** format is a colored copy in a poster size (36" W x 26" H) and easy to read, but hard to carry. It's good for health care providers' use in the office.



ATTENTION!

If you are a Washoe County healthcare provider, you are eligible (upon request) to receive **Antibiogram 2009 in both printed** formats at NO COST. Please email your request to EpiCenter@washoecounty.us and clearly indicate your name, medical group, and local mailing address. Please address your questions, comments, and recommendations on the Health District's website at www.washoecounty.us/health/cdpp/warr.html.

Reference

[1] CLSI. *Analysis and Presentation of Cumulative Antimicrobial Susceptibility Test Data; Approved guideline-Second Edition*. CLSI document M39-A2. 2005.



WCHD is grateful to the following laboratories for their collaboration with community wide antibiogram development.

- (in alphabetic order)
- LabCorp, Reno Office
 - Northern Nevada Medical Center Laboratory
 - Quest Diagnostics, Reno Office
 - Renown Regional Medical Center Laboratory
 - Saint Mary's Regional Medical Center Laboratory
 - Veteran's Affairs Medical Center Laboratory (Reno)