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International Infection Prevention Week 2012 COMMUNITY-WIDE ANTIBIOGRAM NOW AVAILABLE ONLINE Know the Local Data, Prevent Antimicrobial Resistance

October 20-26, 2013 represents the 27th Anniversary of International Infection Prevention Week – the commemoration of the importance of infection prevention around the globe. In 1986, President Ronald Reagan first proclaimed the third week of October as National Infection Control Week. To commemorate this special



week, Washoe County Health District (WCHD) is releasing the 2012 Community-Wide Antibioqram which provides an opportunity for healthcare providers to be aware of local antibiotic susceptibility data and thereby help to prevent antimicrobial resistance in Washoe County.

What is an antibioqram?

According to the Clinical and Laboratory Standards Institute (CLSI), an “antibioqram” is an overall profile of antimicrobial susceptibility of a microbial species to a battery of antimicrobial agents.^[1]

Why a community-wide antibioqram?

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 at www.cdc.gov/media/pressrel/r020326.htm for details.

How is a community-wide antibioqram compiled?

Local hospitals and some private laboratories produce annual antibioqrams for their institutions only. Between 2002 and 2006, WCHD has compiled institution-based antibioqrams and aggregated data to generate a community-wide antibioqram. 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, antibioqram data for private laboratories have been unavailable, therefore the antibioqram data since then has only covered inpatients in local hospitals and outpatients seen at local hospital emergency rooms.

When is the community-wide antibioqram produced?

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

Who should use this antibioqram?

This antibioqram 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 antibioqram prepared by the hospital infection control committee, microbiologists, or pharmacists is preferred, as antimicrobial resistance varies greatly between different locales. For other health care professionals, a community-wide antibioqram may be preferred. Please refer to the Health District’s website at <http://www.washoecounty.us/health/cdpp/warr.html> where different versions of the 2012 antibioqram are available.



(Source of logo: Nevadans for Antibiotic Awareness)

Please share this document with all physicians & staff in your facility/office.

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 licensed 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. Anecdotal feedback from the community partners highly commended the usefulness of this product. About one-third of respondents provided excellent suggestions, such as making the document available in a PDA format. Beginning with the 2006 antibiogram, different versions can be downloaded from the Health District's website for users' convenience.

How many are actually using community-wide antibiogram?

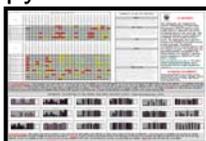
The 2009 Antibiogram, in three different formats, (online, Pocket size, and Wall chart) was uploaded to WCHD's website on December 15, 2010. During the 33 month period between January 2011 and September 2013, there were 16,597 web visits. The median number of visits was 623 per month (range: 395-880). One web visit is counted if the visit comes from one IP address within 15 minutes regardless of the number of hits. Out of all visits, 14,988 visits (90%) were for the online format, 1,016 visits (6%) were for the pocket size format, and 593 visits (4%) were for the wall-chart format. See the following descriptions of these three formats:

- ✓ **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.



What is in the community-wide antibiogram?

- ◆ Antibiotic susceptibility (%) data for 18 commonly seen organisms.
- ◆ Graphic presentation of 2004-2012 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 are major findings from 2012 antibiogram?

- ◆ MRSA rate was 43%, decreased from 47% reported in 2009.
- ◆ VRE rate was 15.6%, significantly increased from 11.9% reported in 2009.
- ◆ Although CRE rate remained low at 0.2%, decreased from 0.7% reported in 2009, ESBL rate showed a significant increase from 2.3% in 2009 to 9% in 2012.

ATTENTION!

If you are a Washoe County healthcare provider, you are eligible (upon request) to receive the **Antibiogram 2012 Pocket Size** format 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.



(In alphabetic order)

Northern Nevada Medical Center
Renown Regional Medical Center
Renown Regional Medical Center at South Meadows
Saint Mary's Regional Medical Center
Veteran's Affairs Medical Center