Steve Sisolak Governor



Richard Whitley Director

State of Nevada Department of Health and Human Services

Preventing the Emergence of Multidrug Resistance Through Antimicrobial Stewardship

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DINYS

Helping people. It's who we are and what we do.

Antibiotic Resistance

- Nevada has developed the Nevada Antimicrobial Stewardship Program (NV ASP) to tackle this issue. They are a collaborative group that is committed to helping organizations throughout Nevada on the journey of Antimicrobial Stewardship development. <u>https://www.nvasp.net/.</u>
- The Division of Public and Behavioral Health Healthcare Associated Infection (HAI) program also works with NV ASP to promote appropriate antibiotic use through trainings, and the development of an evaluation tool for healthcare facilities to monitor if they are meeting the CDC Core Elements, and providing education on carbapenem-resistant Enterobacteriaceae (CRE).
 - Regulations are also in development to make CRE a state-reportable condition in order to help us understand our rate of infection and increase efforts to decrease the spread of this extremely multidrug resistant organism in Nevada.

Antibiotic Resistance Continued

- Nevada has developed systems to track antibiograms through state and local public health programs and the University of Nevada, Reno (UNR), School of Community Health Sciences. In partnership to antibiogram development, with funding from the Centers for Medicare and Medicaid Services (CMS), UNR developed tools to help skilled nursing facilities and other health care facilities assess the most appropriate antibiotic for the patient by age, diagnosis, and geographic region.
- The Nevada Division of Public and Behavioral Health's behavioral health hospitals have developed Antimicrobial Stewardship programs that align with the Joint Commission standards

Antibiotic Resistance Continued

- Nevada conducted outpatient antibiotic stewardship outreach using Healthcare Effectiveness Data Information System (HEDIS) data to target the top 5% overprescribing prescribers for acute bronchitis infections and upper respiratory infections. Visits to outpatient facilities, dissemination of best practices and strategies recommended by the CDC were completed to aid in further reduction of antibiotics overprescribing.
 - 30 providers reached (6 in-person visits)
 - 15 for inappropriate prescribing of antibiotics for URI
 - 15 for inappropriate prescribing of antibiotics for Acute Bronchitis

Antibiotic Resistance Continued

 One of the most innovative policies developed by DHHS to address antibiotic stewardship was the development of new policy for Medicaid in 2019. The policy requires prior authorization for third generation Cephalosporins, Fluoroquinolones, and Oxazolidinones. A summary can be found here: <u>https://www.medicaid.nv.gov/Downloads/provider</u> /web announcement 1751 20181121.pdf

The Medicaid Policy Opportunity for Antibiotic Stewardship

- Currently, we are overusing these classes of antibiotics and seeing serious levels of resistance. There is concern we may lose the ability to use these antibiotics when we truly need them.
- Appropriate prescribing of antibiotics help protect their availability for use in seriously ill patients.
- Our overall goal is that together, we can preserve our ability to save lives with antibiotics and begin to turn the tide of antibiotic resistance for Medicaid recipients.

Why Outpatient Settings?

- U.S. National Action Plan for Combating Antibiotic Resistant Bacteria goal: reduce inappropriate antibiotic use in the outpatient setting by 50% by 2020.
- Estimates show 1 adverse drug event resulting in an emergency department visit occurs for every 1,000 outpatient antibiotic prescriptions.
- In 2015, 838 antibiotic prescriptions per 1,000 population were dispensed from U.S. community pharmacies.
- CDC's Core Elements of Outpatient Antibiotic Stewardship include Commitment, Action for Policy and Practice, Tracking and Reporting and Education.

Why these antibiotic classes?

- Reductions in fluoroquinolones and cephalosporins are more likely to prevent C difficile infection.
 - A 10% decrease in outpatient prescription rates could result in a 17% decrease in C difficile infection rates.
- Fluoroquinolones are commonly used inappropriately in outpatient settings.
- In 2016, FDA updated warning on fluoroquinolones because they can have disabling and permanent side effects.
 - Recommended that fluoroquinolones be avoided in acute sinusitis, acute bronchitis and uncomplicated UTIs.
- Oxazolidinones need to keep a close watch to see if there is any erosion in this class.
 - Reduce the development of drug-resistant bacteria and effectiveness of antibacterial drugs

How This Plan Was Initiated



A Proclamation by the Governor

WHEREAS, antibiotics are an important weapon against infections bacterial diseases that can havin people of all ages and walks of life; and

WHEREAS, inappropriate use of antibiotics for viral infections and entibiotic averuse in the treatment of bacterial infections and colonization has led to an increase in multiple drog-resistant organisms; and

WHEREAS, multihotic resistance has become a global threat to the leadth of all people, and infections with antihotic resistant bacteria dramatically increase the cost and complexity of treating infections which previously were easily treated: and

WHEREAS, the U.S. Centers for Disease Control and Prevention, permering with the European Union Intibiotic Auroreness Day, the Neveada Division of Public and Behavioral Health, and the Nevada Antibicrobial Stewardship Program, are devoting resources to enhance public and healthcave professional awareness regarding the appropriate use of antibiatic; and

WHEREAS, the Nevada Antimicrobial Stewardship Program, in partnership with physician organizations, consumer groups, health plans, state and local public health organizations and pharmaceutical companies, is educating health professionals and consumers about the appropriate use of antibiotics; and

WHEREAS, these callaborative efforts seek to increase awareness about the overase and misuse of antibiotics and work to prevent the increase and spread of antibiotic-resistant bacteria:

NOW, THEREFORE, I, BRIAN SANDOVAL, GOVERNOR OF THE STATE OF NEVADA, do hereby proclaim November 14-20, 2016

GET SMART ABOUT ANTIBIOTICS WEEK IN NEVADA

In Witness Whereof, I have hereinto set my hand and caused the Grean Seal of the State of Nevada to be affixed at the State Capitol in Carson City, this 24th day of October, 2016.



Centers for Disease Control and Prevention CDC 24/7: Saving Lives, Protecting People™



Nevada Division of Public and Behavioral Health (DPBH)



Policy Implementation Timeline

July 2018 DUR Board Approval & Recommendation

November 2018 Antibiotic Policy Kickoff February 2019 Policy Implementation

September 2018 Informational Letter Sent to Providers December 2018 Medicaid Antibiotic Policy Webinar

Antibiotic Policy/Antimicrobial Stewardship in Other States

- Oregon
 - AWARE
- Pennsylvania
 - Antibiotic Resistance Awareness Initiative
- New York
 - NY Be Antibiotics Awareness Team
- Idaho
- Massachusetts
- Illinois
- Vermont
 - Get Smart Vermont: Antibiotics Aren't Always the Answer
- Georgia
- South Dakota
- Utah
 - Utah Alliance Working for Antibiotic Resistance Education
- Texas

Nevada Medicaid Antibiotic Policy

In 2019, Nevada Medicaid will require prior authorization for the following (outpatient antibiotic classes):

- 3rd generation cephalosporins cefixime, cefdinir and cefpodoxime
- Fluoroquinolones ciprofloxacin, levofloxacin, delafloxacin, moxifloxacin, and ofloxacin
- Oxazolidinones tedizolid and linezolid

Exception Criteria

- If prescribed by an infectious disease specialist or by an emergency department provider
- Ceftriaxone prescribed as first line treatment for gonorrhea, pelvic inflammatory disease, epididymo-orchitis and as an alternative to benzylpenicillin to treat meningitis for those with severe penicillin allergy
- If the recipient resides in acute care, long-term acute care (LTAC), or a skilled nursing facility (SNF).

Antibiotic PA Form Example

Me	mber Informatio	on (required)	Provider	Information (required)
Member Name:			Provider Name:	
Member ID#:			NPI #:	Specialty:
Date of Birth:		Office Phone:		
Street Address:			Office Fax:	
City:	State:	Zip:	Office Street Add	ress:
Phone:			City:	State: Zip:
		Medication Info	ormation (require	d)
Medication Name:			Strength:	Dosage Form:
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Prior Authorization Approval

3rd Generation Cephalosporins and Fluoroquinolones:

Approval will be provided if culture and sensitivityproven susceptibilities and resistance to other agents suggest the requested antibiotic is necessary.

**Approval will be for a single course

Prior Authorization Approval

Oxazolidinones:

Approval will be provided if:

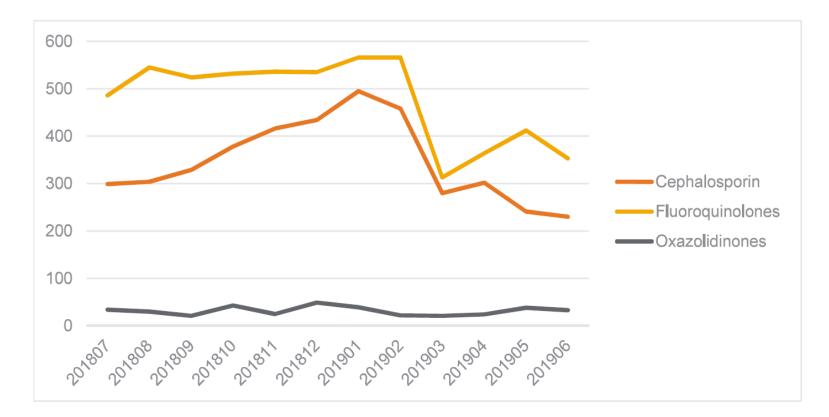
- Sivextro (tedizolid)
 - Appropriate diagnosis (ABSSSI)
 - Infection is caused by MRSA
 - Documented trial of or has a contraindication to an alternative antibiotic that the organism is susceptible to
 - Or the individual started treatment with intravenous antibiotics in the hospital and requires continued outpatient therapy
- Zyvox (linezolid)
 - Appropriate diagnosis (VRE or MRSA)
 - Documented trial of or has a contraindication to an alternative antibiotic to which the organism is susceptible; or
 - The individual started treatment with intravenous antibiotics in the hospital and requires continued outpatient therapy.

**Approval will be for a single course

Next Steps

- Capture baseline antibiotic utilization data
 - Continue to monitor quarterly
- Establish utilization monitoring tool
 - Prescribing rate separated by antibiotic class
 - Yearly average number of antibiotic prescription per member
 - Total days supplied for antibiotic prescriptions
- Evaluate policy for needed updates
 - DUR Board
- Establish antimicrobial resources and contacts

Antibiotic Utilization: Fee-for-Services Medicaid, July 1, 2018 to June 30, 2019



* PA Criteria effective March 4, 2019

6118 Opportunity

Nevada was just awarded for technical assistance with support from the Robert Wood Johnson Foundation, the Center for Health Care Strategies (CHCS) and the Association for State and Territorial Health Officials (ASTHO) for Medicaid agencies and public health departments to indicate interest in receiving technical assistance to implement the CDC's 6 18 Initiative. This technical assistance (TA) offers a unique opportunity to help Medicaid and public health officials collaborate on cost-effective prevention interventions that have improved health and controlled costs on four highburden health conditions: asthma, high blood pressure, inappropriate antibiotic use, and tobacco use.

6118 Goals

- Decrease the use of antibiotics for Medicaid beneficiaries in both fee-for-service and managed care programs.
- Develop language for the managed care contracts that clearly define requirements for antibiotic use and payment criteria.
- Develop metrics for both the fee-for-service and managed care programs for tracking of antibiotic use.
- Develop a population-based measure to assess prescribing (ex: Healthy People 2020 goal of prescriptions per 100,000 population; or a visit-based prescribing rate, such as prescriptions per 100 outpatient visits).
- Assess the quality of antibiotic stewardship policies and programs within Nevada state-licensed health care facilities.

CDC's Focus and Concerns

- Dedicated prevention and infection control efforts have helped reduce the number of infections and deaths caused by antibiotic-resistant germs in the United States.
- CDC used stronger methods and data sources to calculate several estimates, specifically for healthcare-associated germs. CDC has leveraged data to estimate the national burden of antibiotic resistance.
- CDC is concerned about rising resistant infections in the community. Rising infections in the community puts more people at risk and makes spread more difficult to identify and contain—and threatens the progress made to protect patients in health care. Rapid detection and prevention strategies have helped protect people from two communityassociated germs (i.e. drug-resistant tuberculosis, drug-resistant Streptococcus pneumoniae), but a stronger focus and interventions are needed.
- The emergence and spread of new forms of resistance continues to alarm CDC experts, especially resistance shared among germs through genetic mobile elements (antibiotic-resistant germs can share their resistance genes with other germs and can make them untreatable).
 ESBL-producing Enterobacteriaceae, for example—which are on the rise in the community—can transfer resistance within the Enterobacteriaceae family, which includes germs that can cause common infections, such as urinary tract infections. Increased infection prevention domestically and abroad will help slow these new threats.

CDC's Recommendations

- To stop antibiotic resistance, our nation must:
 - Stop referring to a coming post-antibiotic era—it's already here. You and I are living in a time when some miracle drugs no longer perform miracles and families are being ripped apart by a microscopic enemy. The time for action is now and we can be part of the solution.
 - Stop playing the blame game. Each person, industry and country can affect the development of antibiotic resistance. We each have a role to play and should be held accountable to make meaningful progress against this threat.
 - Stop relying only on new antibiotics that are slow getting to market and that, sadly, these germs will one day render ineffective. We need to adopt aggressive strategies that keep the germs away and infections from occurring in the first place.
 - Stop believing that antibiotic resistance is a problem "over there" in someone else's hospital, state or country—and not in our own backyard. Antibiotic resistance has been found in every U.S. state and in every country across the globe. There is no safe place from antibiotic resistance, but everyone can take action against it.

Take action where you can, from handwashing to improving antibiotic use.

Policy Options to Consider

- Expiration on antibiotic prescriptions
- Reporting of all prescriptions
 - Board of Pharmacy Prescription Monitoring Program
 - All Payer Claims Database (APCD)
- Public Health Improvement Fund/Flexible Public Health Funding

Questions?

Contact Information

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