Iowa Gets Smart Know When Antibiotics Work



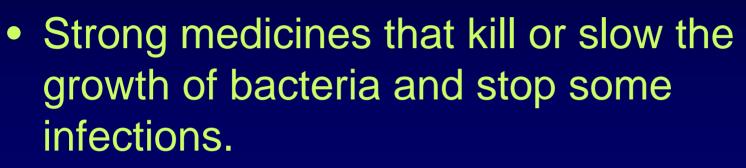


Learning Objectives

- Learn about antibiotic resistance.
- Learn why antibiotic resistance is a problem.
- Understand how and how not to use antibiotics.
- Use current recommendations to prevent antibiotic resistant bacteria.







- They work only for infections caused by bacteria.
- Common antibiotics.



What Is Antibiotic Resistance?

- Bacteria can't be killed by the antibiotic that is meant to kill them.
- Bacteria become stronger and are harder to treat with antibiotics in the future.
- Bacteria that are resistant to one antibiotic are often resistant to other antibiotics.



Antibiotic Resistant Bacteria

- Often need stronger antibiotics.
- Usually make an infection harder to treat.
- Can affect anyone.



Why Worry About Antibiotic Resistance?

- The number of antibiotic resistant bacteria is steadily increasing.
- Infections caused by resistant bacteria are harder to treat.
- Children are at risk because they tend to use a large amount of antibiotics.



Why Should Parents Be Worried?

- Using antibiotics the wrong way can kill some bacteria, but let stronger bacteria stay alive. These stronger bacteria are harder to treat with antibiotics.
- This can be a problem later when a child gets a bacterial infection caused by a resistant bacteria.



Why Should Parents Be Worried?

- Resistant bacteria may need stronger medicine to treat the infection.
- In some cases, your child may need to be in the hospital and get antibiotics through an IV needle.





- Discuss with your child's healthcare provider if he/she has an illness that needs antibiotics.
- Make sure your child takes the medicine exactly as told.
- Always have them finish their antibiotics, even if your child is feeling better.





- Call your child's healthcare provider if he/she isn't getting better.
- Make sure your child:
 - Gets plenty of rest
 - Drink lots of fluids
 - Is kept away from second-hand smoke



Antibiotics-What Not To Do

- Do **not** use antibiotics to treat viral infections (colds and influenza).
- Do **not** use antibiotics given to someone else.
- Do not give antibiotics to someone else.
- Do not stop antibiotics just because your child feels better.



Antibiotics Will Not:

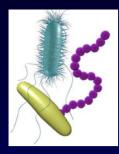
- Help with viral infections (colds, most coughs, and influenza).
- Keep others from getting viral illnesses.
- Make your child feel better if the infection is caused by a virus.
- Shorten the length of time your child is ill if the infection is caused by a virus .



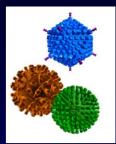
Antibiotics Do Not Work For:

- Colds
- Influenza
- Most coughs
- Most bronchitis
- Sore throats (except those caused by Strep)
- Most vomiting and diarrhea illnesses





Bacteria vs. Viruses



- Viruses
 - Cannot be killed with antibiotics.
 - Cause illnesses like colds, influenza, and most coughs.
 - Over-the-counter medicines may provide relief and help you feel better.



Illness	Virus	Bacteria	Antibiotics?
Cold			
Influenza			
Chest cold			
Sore throat			
Strep Throat			
Bronchitis			
Runny nose			
Ear infection*			
Pneumonia*			
Sinus Infection*			Adapted from CDC

Consult your healthcare provider

Adapted from CDC

Sore Throats

- Usually caused by viruses and do not need antibiotics.
- Strep throat is caused by bacteria and does need antibiotics.
 - A throat swab showing Strep is needed before antibiotics are given.
- Treatment
- Prevention





Ear Infections (Acute Otitis Media)



- Although usually caused by bacteria, mild infections often improve without antibiotics
- Signs and symptoms
- Treatment
- Prevention





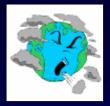
- Caused by viruses and cannot be treated by antibiotics.
- Symptoms
- Treatment
- Preventing colds
- When to call a healthcare provider



Sinus Infections

- Usually caused by bacteria
- Often follows a common cold
- Symptoms
- Treatment
- Prevention





Cough or Bronchitis



- Usually caused by viruses.
- Symptoms
- Treatment
- Prevention



Current Recommendations

- Do not ask your child's healthcare provider for antibiotics if the illness is caused by a virus.
- Always take antibiotics exactly as told.
- Do not save antibiotics for future use.
- Do not use antibiotics given to someone else.



R A Prescription For Your Child...

- Get plenty of rest
- Drink plenty of fluids
- Use a pain reliever for fever and muscle aches (Tylenol or ibuprofen)
- Use a cool mist humidifier or saline spray for congestion
- Avoid second-hand smoke
- Take antibiotics when necessary





Call Your Child's Healthcare Provider If:



- Your child gets worse or doesn't improve.
- Your child has difficulty breathing.
- Your child has chest pain.
- Your child gets white patches and swelling on the tonsils.





Staying Healthy



- Teach your child to cover their mouth and nose with a tissue when coughing or sneezing, or to cough into their upper sleeve.
- Always discard tissues after use.
- Practice good hand washing at home and in public areas.
- Do not share saliva.





Wash Your Hands Often!



- Use soap and warm running water.
- Rub hands with soap for 15 seconds (sing the ABCs song).
- Rinse well under running water.
- In public areas, dry hands using hot air blower or disposable paper towels.



Ask your healthcare provider if antibiotics are the right treatment for your child's illness.





Resources

www.cdc.gov/drugresistance/community/antibiotic-resistance.htm

http://www.idph.state.ia.us/adper/common/pdf/cade/antibioticreport.pdf

www.aware.md

http://familydoctor.org/680.xml (American Academy of Family Physicians)

http://www.who.int/mediacentre/factsheets/fs194/en/

http://www.cdc.gov/drugresistance/community/campaign_materials/Black-White/VirusBacteriaChart(BW).pdf

http://www.cdc.gov/tobacco/factsheets/secondhand_smoke_factsheet.htm

www.epa.gov/iaq/pubs/humidif.htm

Authors: Norma Miller and Mary Rexroat

