

# Antibiotic Use Questions and Answers

What Everyone Should Know

#### What is an antibiotic?

Antibiotics are medicines that fight infections caused by bacteria in humans and animals by either killing the bacteria or making it difficult for the bacteria to grow and multiply.

Bacteria are germs. They live in the environment and all over the inside and outside of our bodies. Most bacteria are harmless and even helpful to people, but some can cause infections, like strep throat.

### What DO antibiotics treat?

Antibiotics ONLY treat certain infections caused by bacteria, such as:

- Strep throat
- Whooping cough
- Urinary tract infection (UTI)

Antibiotics are also needed to treat life-threatening conditions caused by bacteria, such as sepsis, which is the body's extreme response to infection.

### What DON'T antibiotics treat?

Antibiotics DO NOT work on viruses, such as those that cause:

- Colds and runny noses, even if the mucus is thick, yellow, or green
- Most sore throats (except strep throat)
- Flu
- Most cases of chest colds (bronchitis)



Viruses or	Common Respiratory Infections	Common Cause			Am
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Virus or Bacteria What's got you sick? <a>[PDF – 1 Page]</a>

Viruses are germs different from bacteria. They cause infections, such as colds and flu. However, antibiotics do not treat infections caused by viruses.

For more information on common illnesses and when antibiotics are and aren't needed, visit Common Illnesses.

- Many sinus infections
- Some ear infections

This is because these illnesses will usually get better on their own, without antibiotics.

Taking antibiotics when they're not needed won't help you, and their side effects can still cause harm.

#### What are the side effects of antibiotics?

Anytime antibiotics are used, they can cause side effects. Common side effects range from minor to very severe health

proplems and can include:

- Rash
- Nausea
- Diarrhea
- Yeast infections

More serious side effects can include:

- *C. diff* infection, which causes diarrhea that can lead to severe colon damage and death
- Severe and life-threatening allergic reactions
- Antibiotic-resistant infections

Call your doctor if you develop any side effects while taking your antibiotic.

#### More about:

- C. diff infection
- Antibiotic-resistant infections

## Why is it important to take antibiotics only when they're needed?

Antibiotics are

important to treat infections and have

saved countless lives.

However, anytime antibiotics are used, they can cause side effects and contribute to antibiotic resistance, one of the most urgent threats to the public's health.

For more information on antibiotic resistance, visit Antibiotic Resistance Questions and Answers.

When antibiotics are needed, the benefits usually outweigh the risks of side effects or antibiotic resistance. However, too many antibiotics are prescribed unnecessarily and misused, which threatens the usefulness of these important drugs.

This is why it's important that we all use antibiotics ONLY when we need them to protect us from harms caused by unnecessary antibiotic use and to combat antibiotic resistance.

### What is unnecessary antibiotic use?

Unnecessary antibiotic use happens when a person is prescribed antibiotics when they're not needed, such as for colds and flu.

Unnecessary use also happens when a person is prescribed antibiotics for infections that are sometimes caused by bacteria that do not always need antibiotics, like many sinus infections and some ear infections.

Antibiotics aren't always the answer when you're sick. It's important to use antibiotics only when they are needed to protect yourself from harms caused by unnecessary antibiotic use and combat antibiotic resistance.

### What is misuse of antibiotics?

Misuse of antibiotics happens when a person is prescribed

- the wrong antibiotic,
- the wrong dose of an antibiotic, or
- an antibiotic for the wrong length of time.

Talk with your doctor about the best treatment for your illness.

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