You can help prevent AMR!

Don't use antibiotics when they are not needed.

Antibiotics are not intended to treat colds.

Antibiotics are ineffective against viruses that cause colds and flu.

Do not ask for antibiotics when you have a cold.

If you are unsure, please consult with your doctor or pharmacist.

Take antimicrobials properly!

Please finish an entire course of antimicrobials that is prescribed to you, even if you start feeling better before taking the full course. Your doctor prescribes antimicrobials tailored to your condition and physique. So if your doctor gives you antimicrobials, please take them as instructed.

Don't save the antimicrobials for another time and then take it by yourself. Don't give your antimicrobials to others or receive antimicrobials from others.

Avoid infections!

◆ Routine health care and infection prevention are important.



Good Hand Hygiene

Wash hands thoroughly with soap and water.
 Alcohol-based hand sanitizer is also useful.

Coughing etiquette

• Wear a mask properly to avoid spreading droplets by coughing and sneezing. Cover your mouth and nose with a handkerchief or the inside of a sleeve if you do not have a mask.

Be Vaccinated

♦ Vaccines can prevent some infectious diseases.

Our task is to preserve the integrity of useful antimicrobials for the future

Center Hospital of the National Center for Global Health and Medicine



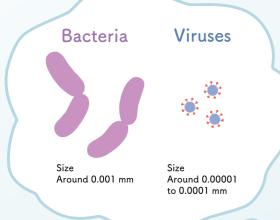


Do you know / And aga 27
ANTIMICROBIAL 2 What is AMR? Antimicrobial drugs and antibiotics lose their efficacy against the bacteria causing the bacterial infections. "The common cold" is caused by viruses. Antibiotics are not effective against a "cold." If you take antibiotics at your own discretion without medical advice, or do not follow your doctor's instructions, you will not only not improve, but side effects and "AMR" may develop, which will interfere with the treatment and prevention of infections.

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What is the difference between bacteria and viruses?

Both viruses and bacteria cause infections. Both organisms are so tiny that they are invisible to the naked eve, but their size, body structure and mechanism of multiplication are completely different from each other. Bacteria and viruses can spread from person to person through direct contact or by inhaling sneeze or cough droplets that contain them; however, such contact does not necessarily cause disease.



Bacteria

Bacteria divide and multiply

Viruses

Viruses need to use the living cell of other organisms to multiply.





Antibiotics are drugs that are used to treat bacterial infections. Colds are caused by viruses. Antibiotics cannot help to treat colds!

"I caught a cold, so I want my doctor to prescribe me an antibiotic for quick relief." Have you ever thought like this?

Most colds and flu are caused by viruses. Antibiotics are only effective against bacterial infections and are completely ineffective against colds caused by viruses.

If you have a cold and feel better after taking an antibiotic, it may not be the effect of the antibiotic, but your own immunity that has killed the virus.

If antibiotics are taken incorrectly, it can cause side effects and the development of AMR

ineffective. This not only complicates the treatment of infections and the prevention of infections during surgery, but also complicates organ transplants, chemotherapy and various other medical treatments.



Diarrhea, vomiting, and rashes may occur

Risk for developing AMR Unnecessary antibiotics can lead to the development of AMR



Treatment complications Antibiotics lose their efficacy, and it becomes more difficult to prevent and treat infections



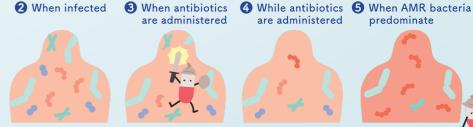
What is AMR?

When antimicrobials are used, some bacteria become resistant to them. In other words, antimicrobials become less effective or completely ineffective to some bacteria. Numerous bacteria (normal bacterial flora) on the surface of the skin and the mucosa of the intestines maintain a healthy balance in our bodies. When disease-inducing bacteria (pathogenic bacteria or germs) cause illness, we take prescribed antibiotics, which kill the pathogenic bacteria, but also the normal bacterial flora. Pathogenic bacteria can then become AMR to escape being killed by antibiotics. In a habitable environment free of normal bacterial flora, some bacteria resistant to antimicrobials can easily multiply.

▼ The mechanisms whereby AMR development. ▼



of harmless bacteria in the human body



Pathogens proliferate in the body







proliferate



AMR is a challenge that is tackled globally.

concluded that as many as 10 million people may die annually from AMR by 2050,* mainly in Asia

National Action Plan on AMR was formulated in 2016, and efforts to combat AMR have begun.



Not just a human problem.

Antimicrobials are used in various fields besides human and animal medicine, including livestock, fisheries and agriculture. The possibility humans, but also through food and the environment, has also been pointed out. Consideration should be given both to human health as well as to animal health and environmental conservation.

cooperate to solve problems.

