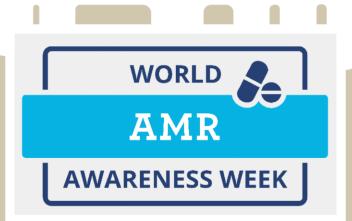
Antibiotic Resistance

November 2024





AMR

The Growing Threat

Statistics: According to the World Health Organization (WHO), at least 700,000 people die each year due to antibiotic-resistant infections. Without urgent action, this number could rise to 10 million annually by 2050.

Common Resistant Bacteria:

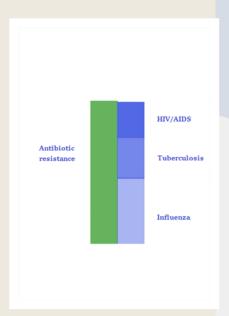
Methicillin-resistant Staphylococcus aureus (MRSA)

Vancomycin-resistant Enterococcus (VRE)

Multidrug-resistant tuberculosis (MDR-TB)

What is Antibiotic Resistance?

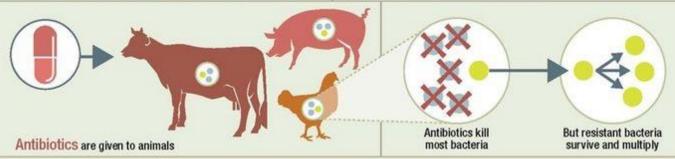
 The ability of bacteria to combat the action of one or more antibiotics. Bacteria, not humans or animals, become antibioticresistant. The health impact of antibiotic-resistant infections become comparable to that of influenza, Tuberculosis, and HIV/AIDS combined



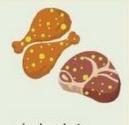


from the farm to the table

RESISTANCE All animals carry bacteria in their intestines



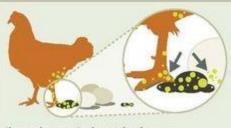
SPREAD Resistant bacteria can spread to...





contaminated water or soil





animal products

prepared food through contaminated surfaces

the environment when animals poop

EXPOSURE People can get sick with resistant infections from...



IMPACT Some resistant infections cause...





Short answer: Everyone! Antimicrobial resistance (AMR), or drug resistance, occurs when viruses, bacteria, fungi, and parasites evolve to resist treatment. As drugs become less effective, disease duration, severity, and mortality increase. However, some people are more vulnerable to these difficult-to-treat infections.

AMR Resistance



Babies

An estimated 3 million cases of sepsis (severe blood infections) occur each year in newborns alone, resulting in up to 570,000 deaths – many due to drug resistance. Certain antibiotics in Southeast Asia are now only 50% effective at treating sepsis and meningitis in newborns.¹

The Elderly

The multidrug-resistant fungal infection, Candida auris, has death rates ranging from 30% to 60%. It spreads easily through skin-to-skin contact and is a major concern for elderly people in assisted living facilities.²



Womer

Uncomplicated urinary tract infections (UTIs) disproportionately affect women, and they are one of the leading reasons for antibiotic prescriptions worldwide.

Resistance against pathogens causing UTIs has emerged globally.3

AMR Resistance

AMR Resistance





People with Underlying Conditions

People with Type 2 Diabetes are twice as likely as those without the condition to get drug-resistant urinary tract and respiratory infections. In 2020, a United Kingdom survey found that 5% of surgical patients with cancer develop drug- resistant infections



Solutions



The Key is:

There are several ways to address this threat and ensure that antibiotics remain effective in the future.

 Using antibiotics prudently, only when they are necessary.



- Implementing good infection prevention & control practices such as hand hygiene, screening for infection with multi-drug-resistant bacteria & isolated infected patients.
- Promote research & development of antibiotics.

Everyone is responsible

Everyone is responsible and can make a difference in addressing this growing threat to human health: patients, doctors, nurses, pharmacists, veterinarians, farmers, and policy makers.



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