









### ANTIMICROBIAL RESISTANCE

People are dying all over the world because medicines no longer work

- Common infections are becoming untreatable
   Few new antimicrobials are in the pipeline
- Antimicrobial resistance is a serious public health threat.

Bacteria, viruses, fungi, and parasites are all microbes. They cause diseases like pneumonia, HIV, candidemia (the most common bloodstream infection in hospital patients), and malaria, as well as severe diseases in animals. All types of microbes can develop resistance to the medicines that have been developed to kill them.

Common infections are becoming resistant to all available medicines.

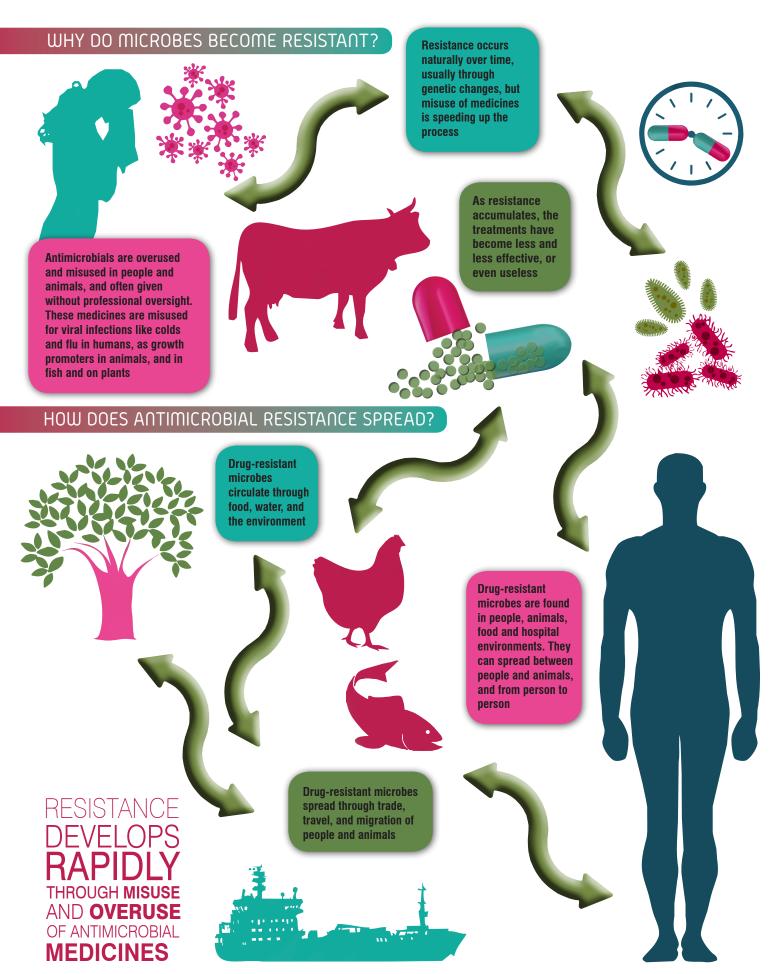
# To combat AMR, we need:

- ✓ **Political commitment** to AMR as a national priority, intersectoral responsibility, and development issue
- ✓ National action plans in all countries based on the Global Action Plan on AMR
- **✓** Intersectoral collaboration
- ✓ Investment in research and development for new medicines, diagnostic tools, and vaccines















## WHY WE NEED TO ACT NOW

We cannot afford to return to a pre-antibiotic era

## Medicines won't work

Diseases that have become resistant to a wide range of antimicrobial medicines include:

Bloodstream infections (sepsis)

- Pneumonia Tuberculosis
- HIV/AIDS Malaria Gonorrhea • Urinary tract infections
- Treatment for many common conditions will soon become risky or impossible. These include:
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     Complications of childbirth Infections in newborns Hip and knee replacements
  - Organ transplantation Chemotherapy for cancer Many common surgical procedures

No new classes of antibiotics have been developed in 40 years

NEW DRUGS, DIAGNOSTICS, AND VACCINES ARE URGENTLY NEEDED

AMR is not just a human health issue

Many sectors are affected by antimicrobial resistance. These include:

- Animal health and welfare
- Food supply and production
  - · Crops, livestock and fish
    - Environment
    - Social and
    - economic development
       Water and sanitation
    - Trade and commerce
    - Travel and tourism
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ANTIMICROBIAL MEDICINES ARE GLOBAL PUBLIC GOODS

# The costs of AMR will be high

AMR will increase healthcare costs for individuals, health systems, and countries. People and society will suffer from lost wages and decreased productivity.

AMR may kill millions of people every year

- Human lives Lost productivity
- Decreased food production
- · Unsafe foods
- Overburdened or bankrupt health systems

BY 2050, ANTIMICROBIAL RESISTANCE MAY CAUSE DROP IN GLOBAL GDP (0'Neill 2014)

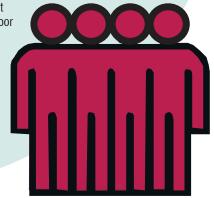
#### Gains of MDGs will be lost; SDGs in danger

The Millennium Development Goals helped slow the spread of HIV/AIDS, malaria, and TB, and accelerated declines in maternal and child deaths. But AMR can turn back the clock on these achievements. AMR also threatens progress on the health-related

Sustainable Development Goals. AMR will affect poor people in developing

countries the most.

GOVERNMENTS
MUST TAKE
THE LEAD IN
TACKLING
ANTIMICROBIAL
RESISTANCE



AMR IS A GLOBAL THREAT THAT REQUIRES URGENT DEVELOPMENT AND ACTION BY GOVERNMENTS AND SOCIETY AS A WHOLE. IT THREATENS THE ACHIEVEMENTS OF MODERN MEDICINE. COMMON INFECTIONS AND MINOR INJURIES THAT HAVE BEEN TREATABLE FOR DECADES MAY ONCE AGAIN KILL MILLIONS







### **COMBAT AMR?**

#### All sectors must work together

#### Policy makers

Reducing antimicrobial resistance requires strong political will and leadership. The Global Action Plan for AMR, established with the input of many stakeholders,

is in place. Now national action plans must be developed and their progress monitored and evaluated. Governments are responsible for protecting the health of their people. By tackling needless deaths, mitigate economic losses, and contribute to social and economic development.



#### Farmers, veterinarians & food producers

All three can prevent infections on farms through good practices (good husbandry, safe quality of feed, hygiene, proper waste and manure management). Should use antimicrobials responsibly to treat diseases and only on the advice of a veterinarian or crop specialist. Veterinarians should prescribe antimicrobials only after proper diagnosis. All must promote sustainable food and agricultural systems with improved hygiene to prevent

infections. Alternatives to antimicrobials, like vaccines, can drastically reduce the spread of

antimicrobial resistance.

#### Health workers & patients

Both play a vital role in preserving the power of antimicrobial medicines. Inappropriate prescribing and dispensing can lead to misuse and overuse. Health workers may lack upto-date information, be unable to identify the type of infection, yield to pressure to prescribe antibiotics, or benefit financially from supplying the medicines. In most countries, antibiotics can be purchased without a prescription or the involvement of a health professional or veterinarian. Poor hygiene and infection prevention and control practices in hospitals can spread drug-resistant infections.

## UNITED NATIONS GENERAL ASSEMBLY

# HIGH-LEVEL EVENT

New York, September 2016

SUCCESS WILL DEPEND UPON:

- Political commitments by Heads of State
  - Multisectoral collaboration
  - Agreed, time-bound deliverables
    - Accountability framework

More information:

whoamrsecretariat@who.int www.who.int/drugresistance Antimicrobial-Resistance@fao.org www.fao.org/antimicrobial-resistance oie@oie.int

www.oie.int/antimicrobial-resistance