

# Antimicrobial Resistance (AMR)

Drug resistant infections can affect anyone at any stage of life, anywhere in the world. Antibiotic resistance occurs when germs defeat the drugs designed to kill them.



Increased consumption and inappropriate use are driving increased rates of drug resistant disease, globally.

**65% ↑**

Global antibiotic consumption increase between 2000 and 2015<sup>1</sup>



**15 - 88% ↑**

Rates of inappropriate antibiotic use in the primary healthcare settings; varies by country<sup>2</sup>

**223,900 cases and 12,800 deaths** due to infection with *Clostridioides difficile* annually in **US**<sup>3</sup>.



More than **33,000 deaths** a year from resistant infections in **Europe**<sup>5</sup>.



Each year, **antibiotic-resistant bacteria and fungi** cause at least an estimated **2,868,700 infections** in the **US**<sup>3</sup>.



**1 Child Dies Every 9 Minutes** from an infection caused by antibiotic-resistant bacteria in **India**<sup>6</sup>.



**Over 35,000 patients** die each year as a result of **antibiotic resistant infections** in the **US**<sup>3</sup>.



An estimated **671,689 infections** were caused by eight antibiotic-resistant bacteria in the **Europe**<sup>5</sup>.



Treatment of multi-drug resistant infections cost an estimated **\$4.6 billion** each year in the **US**<sup>4</sup>.



**Globally, 465,000 people** fell ill with drug-resistant/multi-drug resistant Tuberculosis (TB)<sup>7</sup>.



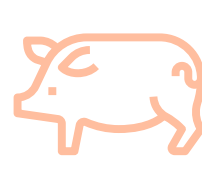
AMR is the result of inappropriate use of antibiotics in humans, animals and the environment.



Overprescribing of antibiotics



Patients not taking antibiotics as prescribed



Unnecessary antibiotics used in agriculture



Poor infection control in hospitals and clinics

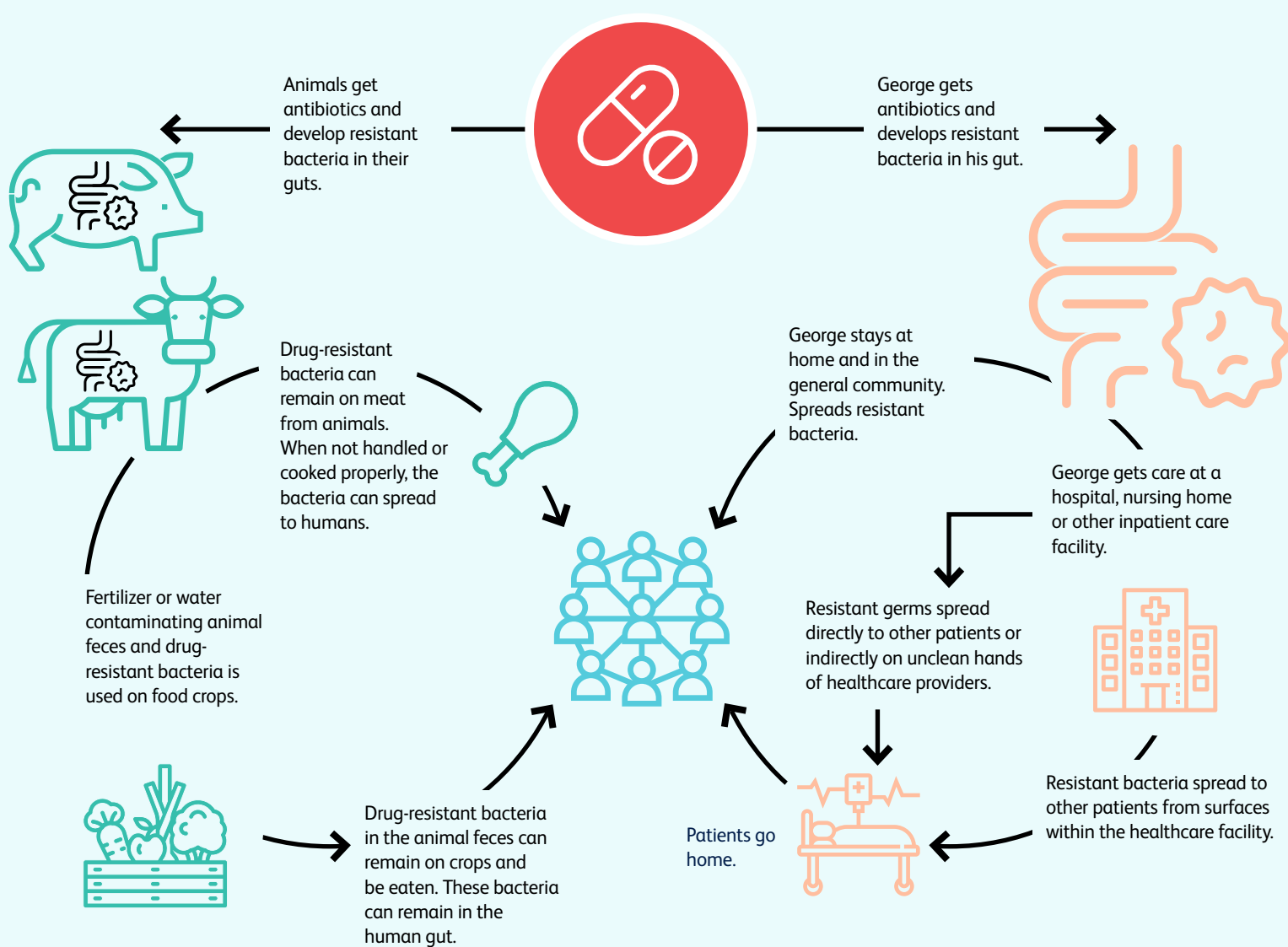


Poor hygiene and sanitation practices



Lack of rapid laboratory tests

The interconnection between people, animals, plants, and their shared environment allows bacteria, including resistant bacteria, to spread.



## Actions that we can take today **ACTION**

In the community:

**1**

**Understand antibiotics aren't always good.**

Antibiotics save human and animal lives. Any time antibiotics are used, they can lead to side effects and resistance.

**2**

**Understand when and how antibiotics should be used.**

Antibiotics do not work on viruses, such as colds and the flu. Talk to your healthcare provider or veterinarian about whether antibiotics are needed.

**3**

**Understand the global antibiotic environment/ecosystem and how it is impacting drug resistance.**

The drivers of antimicrobial resistance include antimicrobial use and abuse in human, animal, and environmental sectors and the spread of resistant bacteria and resistance determinants within and between these sectors and around the globe.

In healthcare systems:

Implement optimal practices for surveillance, infection prevention, diagnostic and antibiotic stewardship.

**We all have a role to play to prevent AMR.**

To learn more, go to [antimicrobialresistancefighters.org](https://antimicrobialresistancefighters.org)

### References

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