Antimicrobial Resistance

Why is it such a problem?

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Introductions

- Welcome / Registration / Housekeeping
- Intro to the IPC team
- Presentation / Activities
- Evaluation forms

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Objectives

- Intro to Antimicrobial resistance (AMR)
- Causes of AMR?
- How does AMR spread?
- AMR- the problem?
- Prevention and control
- What can we do to help?

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Introduction to AMR

According to the World Health Organisation (WHO),

antibiotic resistance is rising to dangerously high levels

in all parts of the world as new resistance mechanisms

are emerging and spreading globally.

Once bacteria become resistant against antibiotics, it becomes much more difficult to get an infection under control.

- https://youtu.be/oMnU6g2djm4

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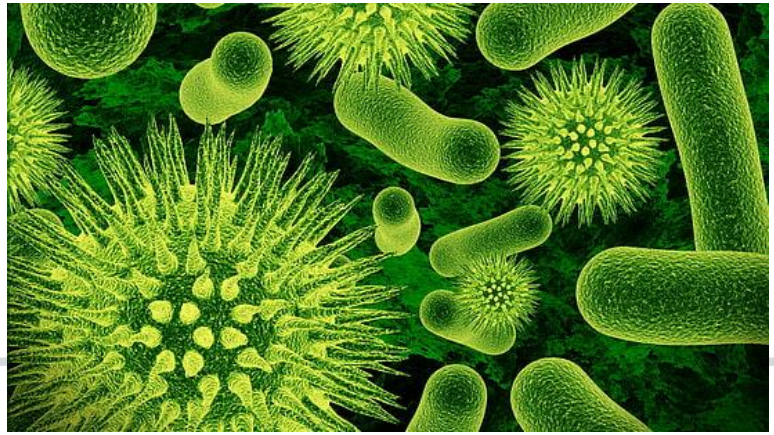
Microbes

Microbes are livings things that have only one cell in their entire body

Microbes are found virtually everywhere, they live in water, soil, and on the skin and in the digestive tracts of animals



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What are Useful Microbes?

Microbes produce waste products, and it is these waste products that can either be beneficial or harmful to humans.

e-Bug

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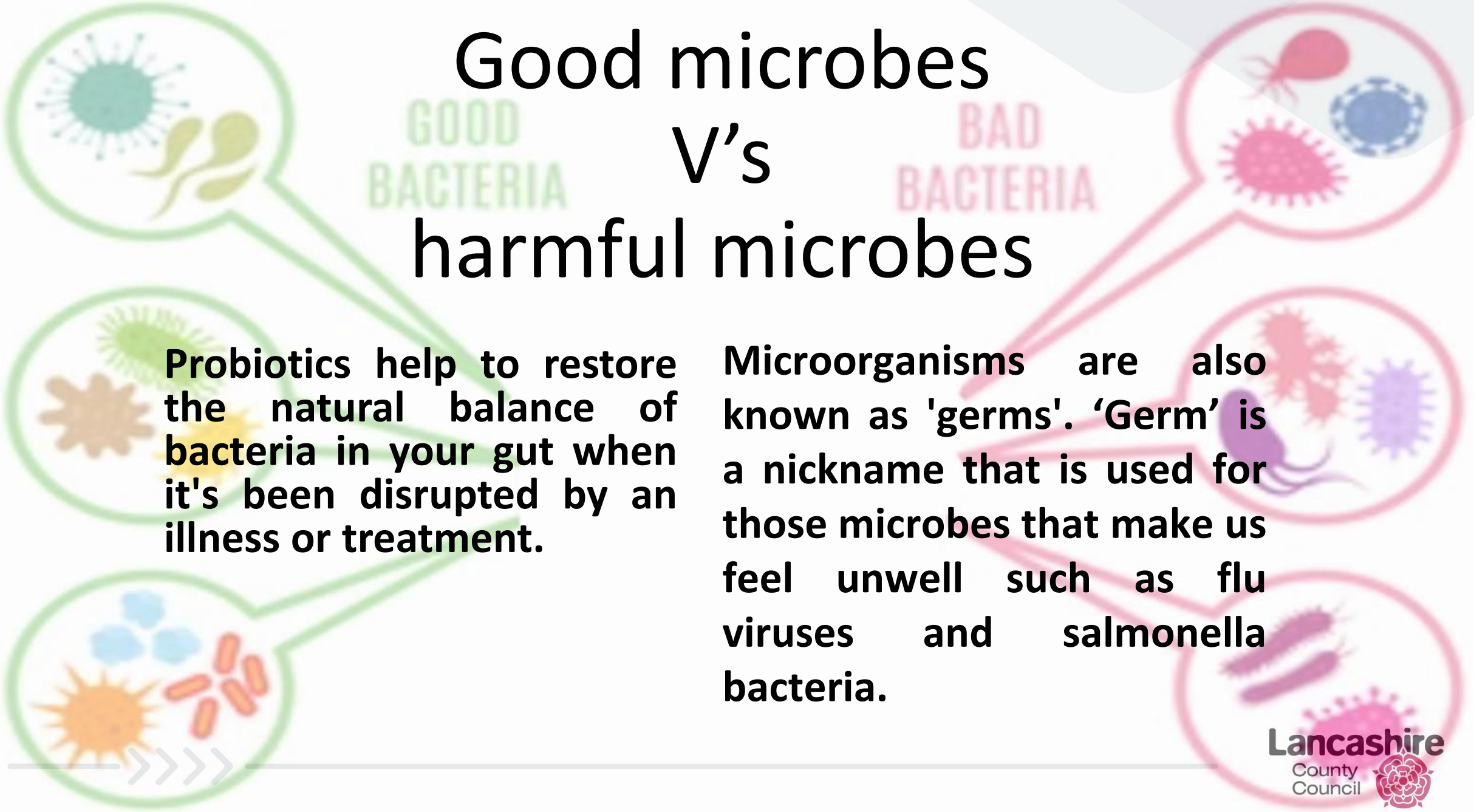
Good microbes V's harmful microbes



Probiotics help to restore the natural balance of bacteria in your gut when it's been disrupted by an illness or treatment.

Microorganisms are also known as 'germs'. 'Germ' is a nickname that is used for those microbes that make us feel unwell such as flu viruses and salmonella bacteria.

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History of ABX – It’s not new

The thoughtless person playing with penicillin treatment is morally responsible for the death of the man who succumbs to infection with the penicillin-resistant organism.

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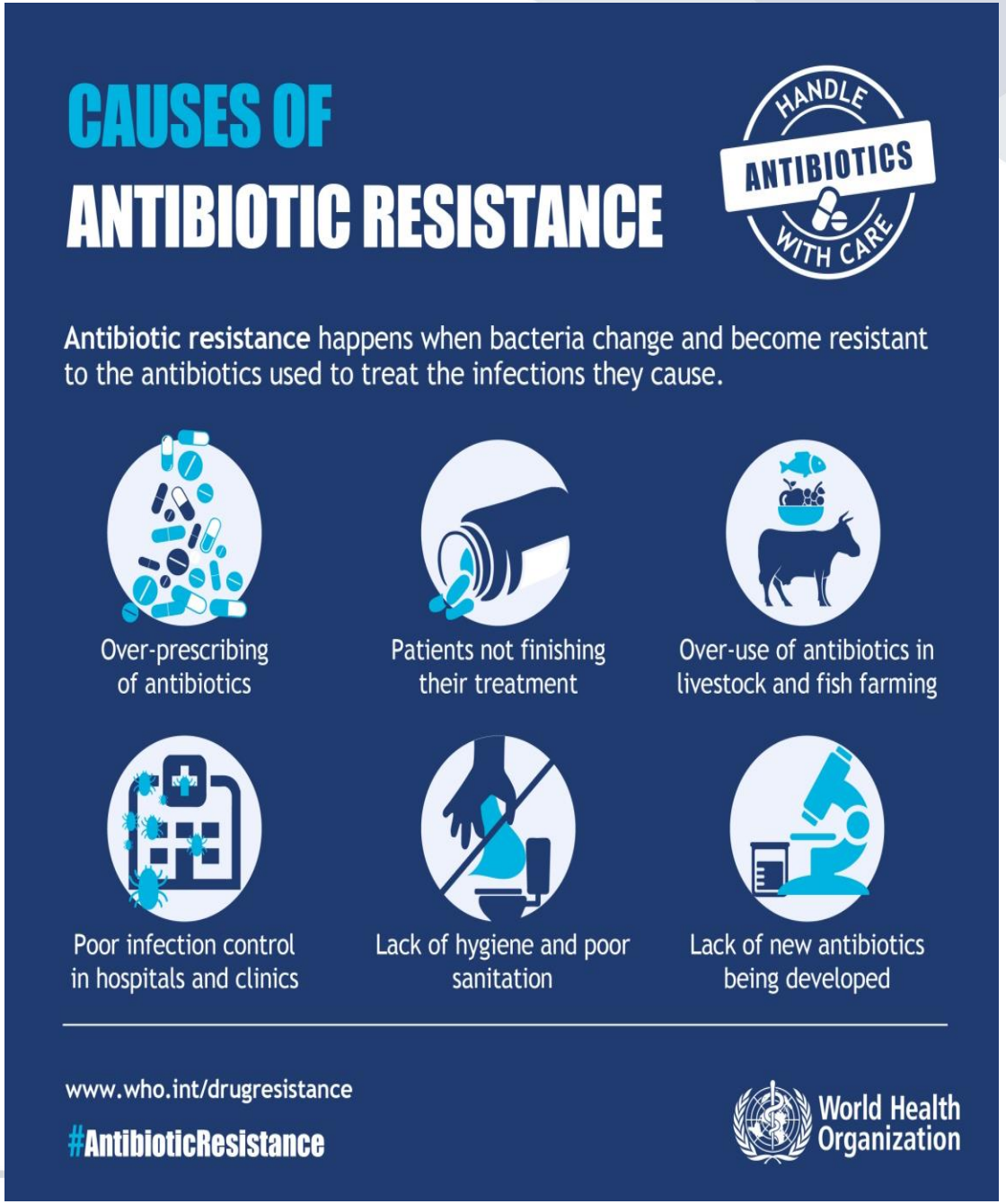
Causes



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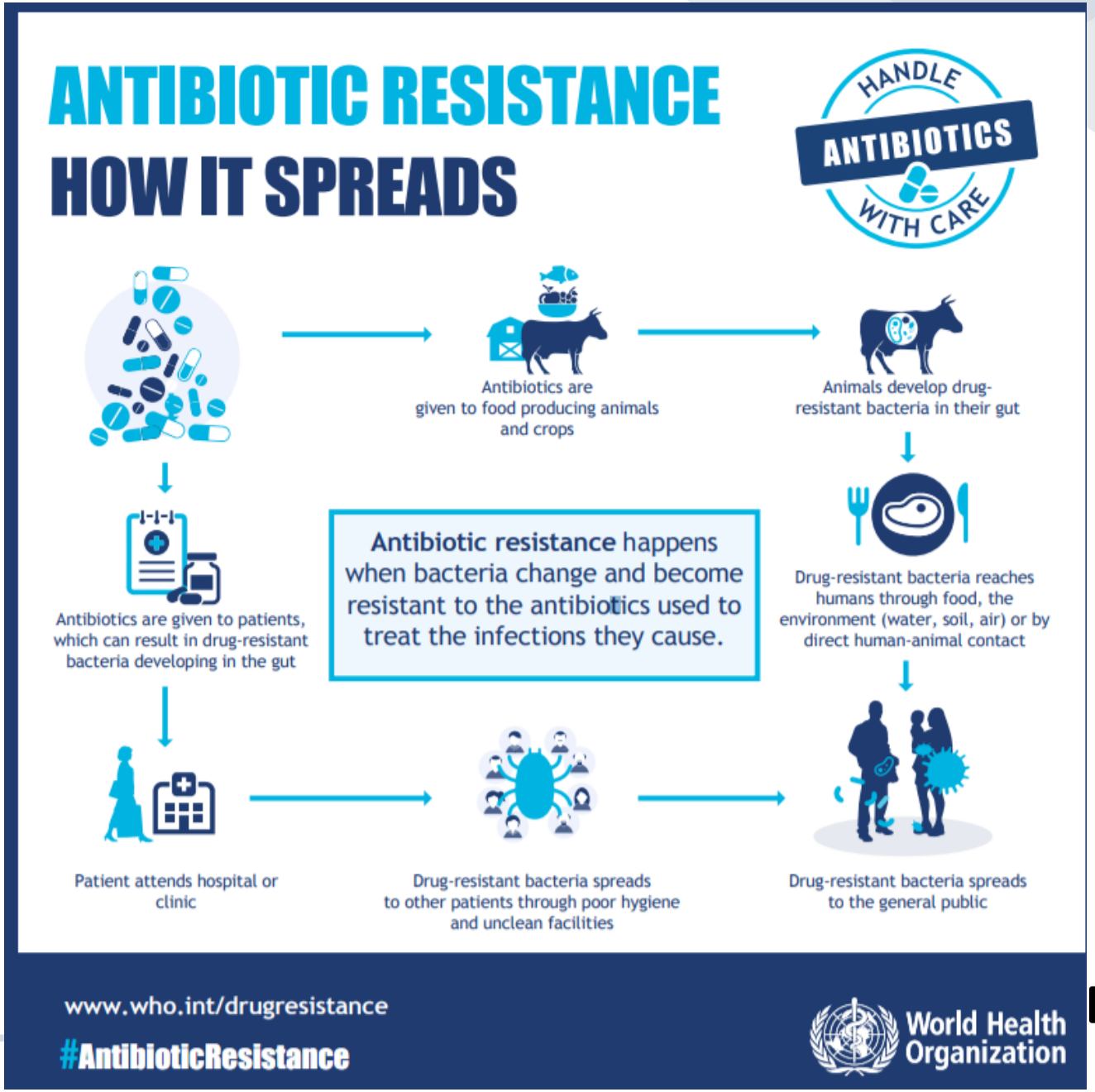
Spread



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Why is AMR a problem

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UK 2019-2024 plan

- The plan focuses on three key ways of tackling AMR:
- reducing need for, and unintentional exposure to, antimicrobials
- optimising use of antimicrobials
- investing in innovation, supply and access.

- Ref: Department of Health (2019) *Tackling antimicrobial resistance 2019-2024*. Available from https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/784894/UK_AMR_5_year_national_action_plan.pdf [accessed on 01 May 2019]

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Factors increasing AMR

Inappropriate prescribing

- A third of the public believe that antibiotics will treat coughs and colds.
- 1 in 5 people expect antibiotics when they visit their doctor.
- GPs commonly express concerns that they feel pressurised by patients asking for antibiotics.
- Overuse and misuse of antibiotics leads to bacteria developing resistance to antibiotics.
- Did you know???

- Antibiotics are no longer routinely used to treat chest infections, ear infections and sore throats in children.

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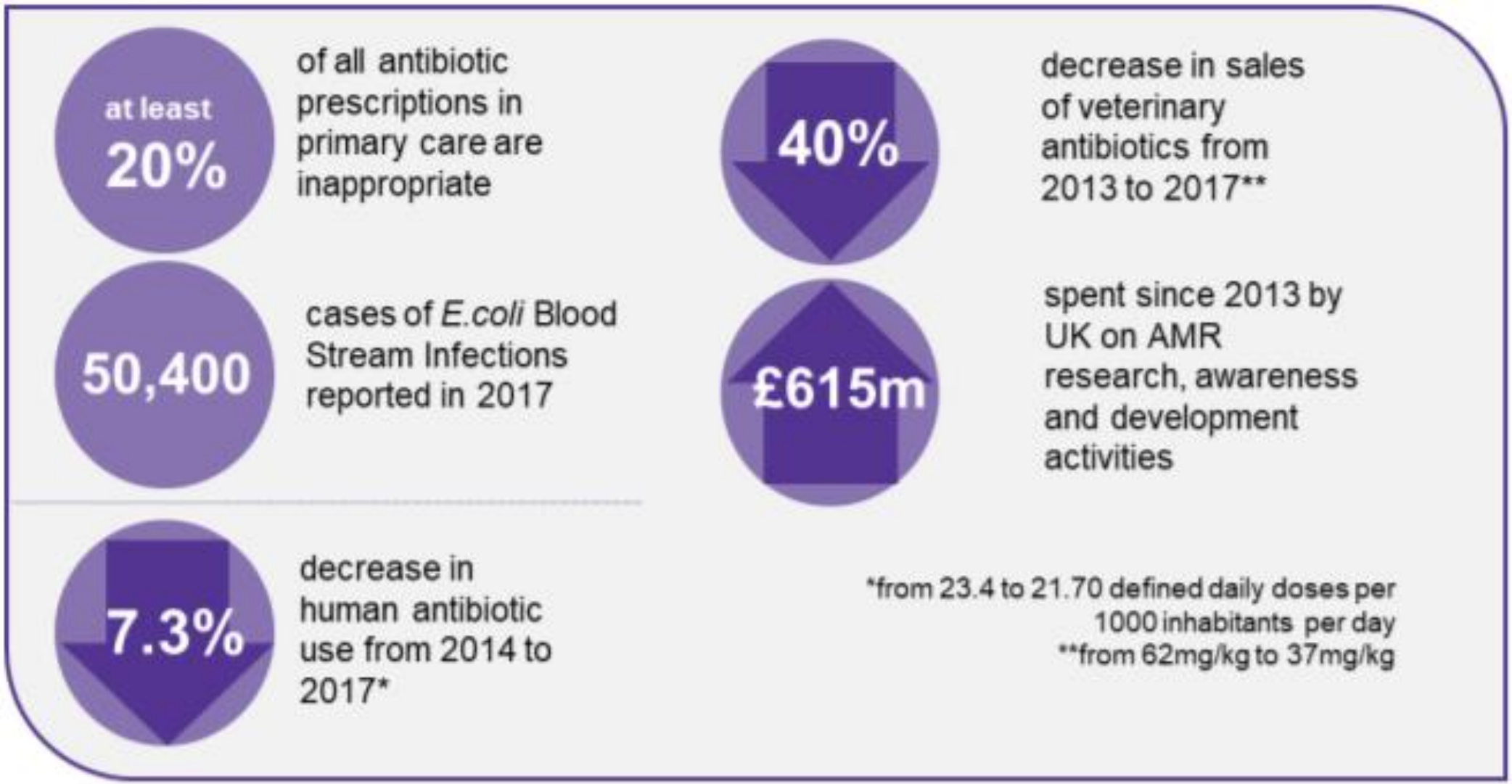

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What can We Do

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Chain of Infection Game

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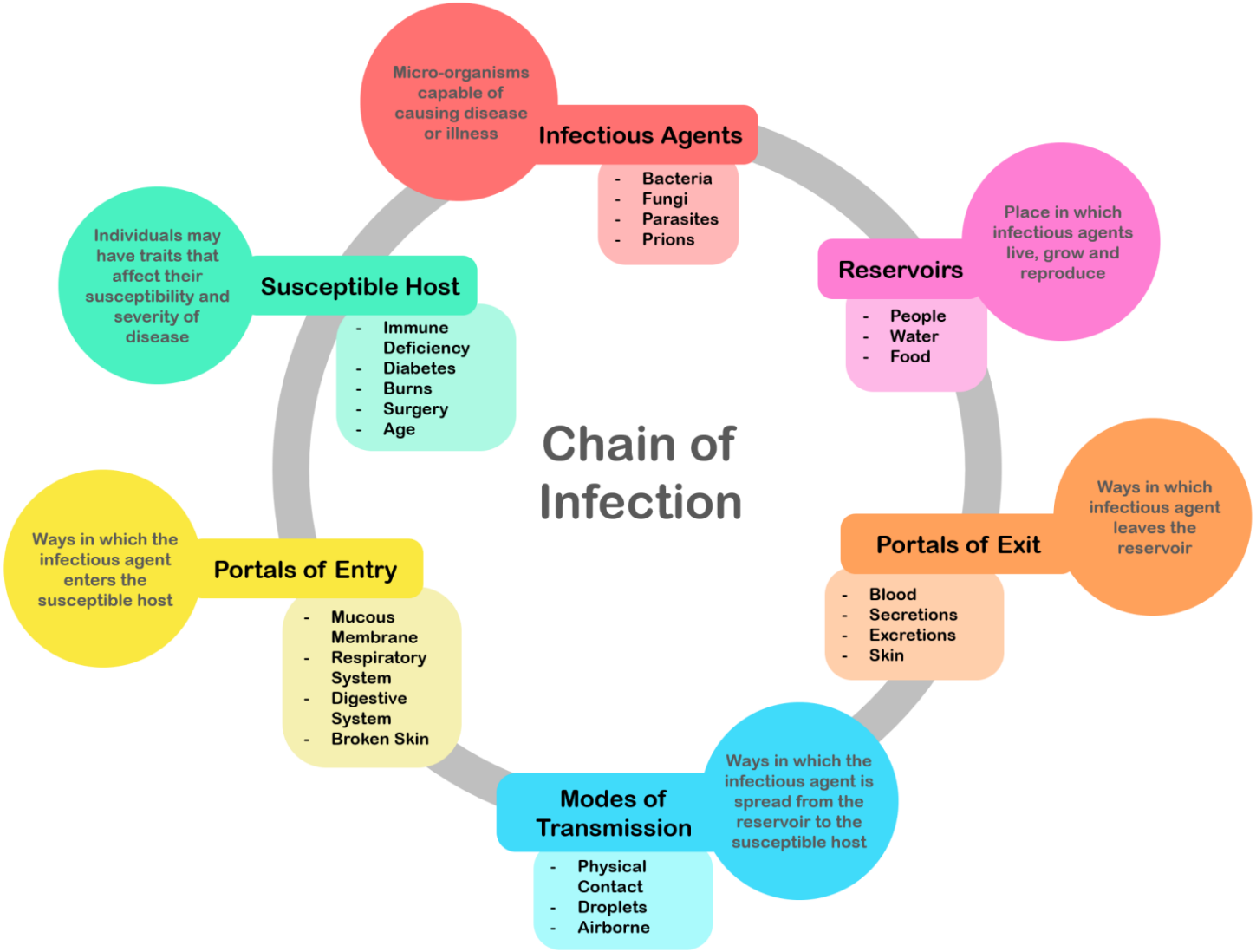

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Hand Hygiene Break the Chain of infection

1. Before touching a patient/service user- before giving care

2. Before a clean procedure

3. After body fluid exposure risk

4. After contact with a patient/service user- after providing care

5. After touching patient/service users surroundings.

What can we do ?

[Antibiotic Guardian – Pledge to be an Antibiotic Guardian]

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What can we do

Always finish the full course of antibiotics prescribed.

Make sure you don’t take left over antibiotics.

Remember to only take antibiotics that are prescribed for you by your GP/health professional.

Antibiotic resistance advert - keep antibiotics working and take your doctor's advice - Bing video

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RIGHT or Wrong

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Wrong

Most common infections that cause coughing and sneezing are caused by viruses, and will get better by themselves with bed rest and fluid intake. Antibiotics are not effective against viruses.

Right

Antibiotics should be taken exactly as advised by your healthcare professional.

Wrong
You must not use other people's or any leftover antibiotics.

Right
Most common infections that cause coughing and sneezing are caused by viruses, and will get better by themselves with bed rest and fluid intake. Antibiotics are not effective against viruses.

Wrong
Antibiotics can help severe bacterial infections such as pneumonia or kidney/ urine infections.

Wrong
Antibiotics should be taken exactly as advised by your healthcare professional.

Wrong

Antibiotics are not effective against headaches or viruses, such as the one that causes flu.

Right

If you over-use antibiotics they might not work when you really need them for a severe infection.

Amalas’s Story

- https://www.youtube.com/watch?v=Y9WEERSh5G0

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QR CODE FOR FEEDBACK

AMR forum evaluation form