

EUROPE'S FIGHT AGAINST ANTIMICROBIAL RESISTANCE



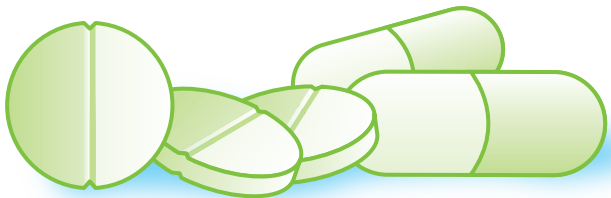
WHAT IS ANTIMICROBIAL RESISTANCE (AMR)?

Antimicrobials?

Substances used to treat a wide variety of infectious diseases in humans and animals. They:

- kill micro-organisms
- stop micro-organisms from growing and multiplying

Example: antibiotics



Antimicrobial resistance?

The ability of micro-organisms to withstand antimicrobial treatments.

Example: MRSA (meticillin-resistant Staphylococcus aureus) commonly present on human skin and mucous membranes



Why is resistance growing?

- Overuse of antibiotics
- Misuse of antibiotics
- Spread through various routes



Effect of growing resistance?

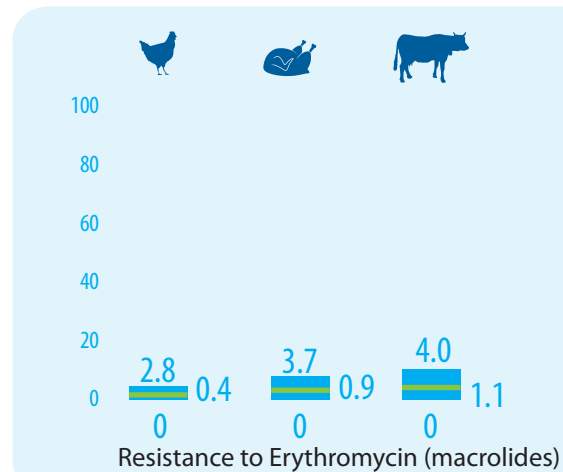
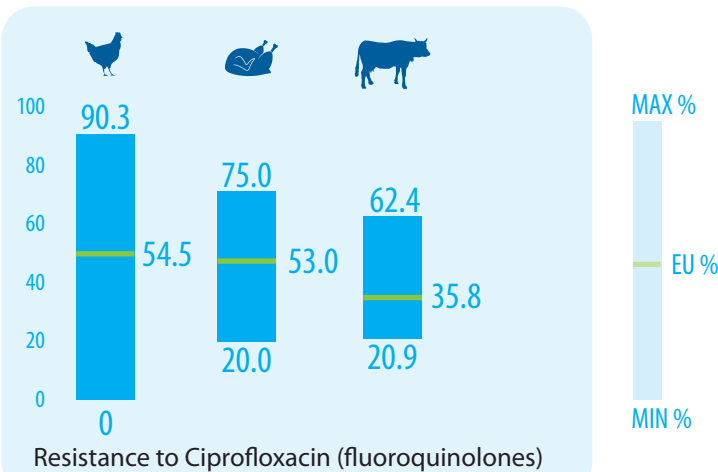
- Treatment may become ineffective
- Serious risk to public health

OVERVIEW OF RESISTANCE LEVELS IN EU

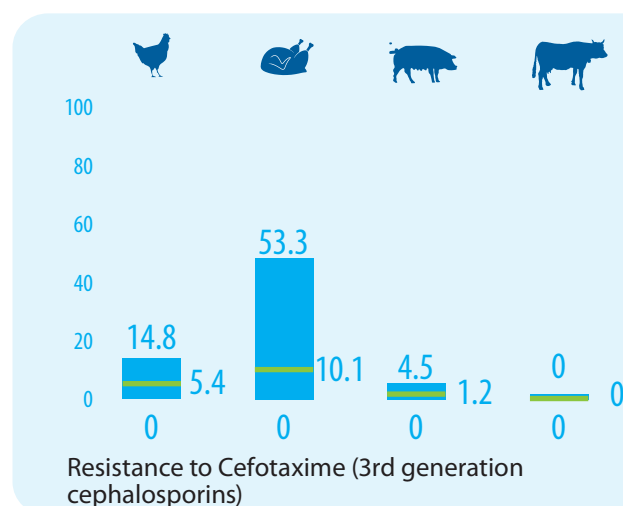
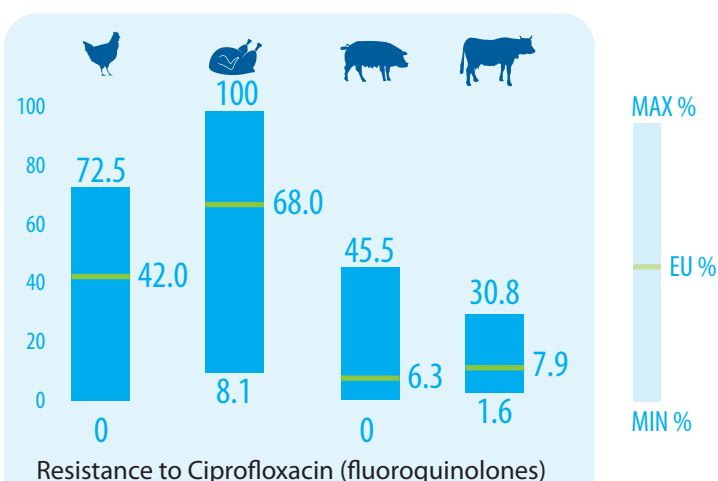
Based on "European Union Summary Report on antimicrobial resistance in zoonotic and indicator bacteria from humans, animals and food in 2013"

ANIMALS AND FOODS

Campylobacter jejuni



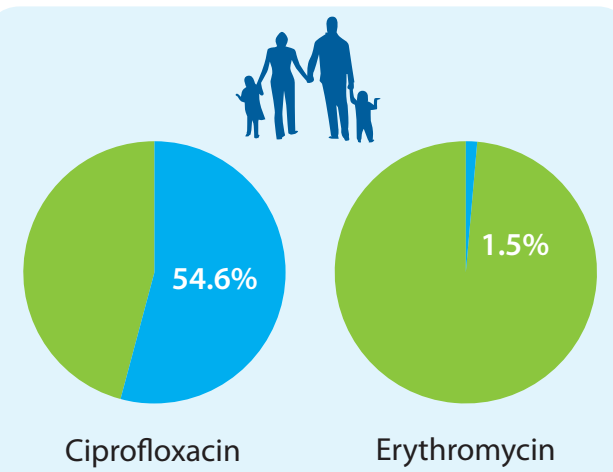
Salmonella



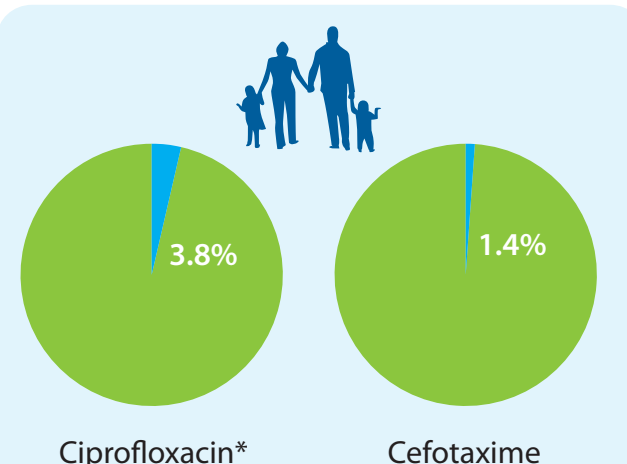
Variability in percentage of bacteria presenting microbiological resistance reported by Member States

HUMANS

Campylobacter jejuni



Salmonella (all non-typhoidal serovars)



■ resistant

* Interpretative criteria to establish clinical resistance were used in this case. If criteria to establish microbiological resistance were used, the results would be higher

HOW DO EFSA AND ECDC FIGHT AMR?

Scientific support & advice

EFSA and ECDC provide independent scientific support and advice to risk managers and decision makers on the possible emergence, spread and transfer of antimicrobial resistance. EFSA collects data on AMR in food-producing animals, while ECDC collects data on AMR in humans.

Integrated approach

EFSA and ECDC monitor AMR in animals and humans, using data reported by Member States. The two agencies cooperate with the European Medicines Agency to analyse the relationship between antimicrobial use and the emergence of resistance in food-producing animals and in humans.

DECISION MAKERS

Member States

European Commission

European Parliament
Brussels/Strasbourg

SCIENTIFIC SUPPORT AND ADVICE

ECDC
European Centre for Disease Prevention and Control
Stockholm

EMA
European Medicines Agency
London

EFSA
European Food Safety Authority
Parma