Dutch antibiotic resistance policy
A One Health Approach

Ministry of Health, Welfare and Sport

EPHA: Resistance!
8 September 2016
The Dutch One Health approach

Where are the threats coming from?

- Healthcare
- Animals
- International
- Environment
- Food

Well-being of the human being

Every use of antibiotics by humans and animals contributes to an increase of bacteria that are resistant for antibiotics.
Background (1)

- Doing relatively well in health care
- Focus on veterinary measures since 2008
- Intensification of measures healthcare in 2013
- One Health National Action plan in 2015
Healthcare

• avoidable healthcare-associated infections will be reduced by 50%

• incorrectly prescribed antibiotics across the entire healthcare chain reduced by at least 50%

• reduction in the emergence and spread of multiresistant bacteria in healthcare becomes visible

• infections and deaths due to antibiotic resistance in the Netherlands will remain at the current level or decrease

• possibilities for effective treatment of patients with infections with resistant bacteria will not reduce any further
Economic impact (1)

Antimicrobial use on a urology department before and after implementation of the A-team
Background (2)

- Human
- Veterinary

Antibiotic usage in NL in humans

Antibiotic Usage in Animals in NL

doi:10.1093/jac/dkp033
Advance Access publication 21 April 2009

European Surveillance of Antimicrobial Consumption (ESAC):
outpatient parenteral antibiotic treatment in Europe

Samuel Coenen, Arne Muller, Niels Aadams, Vanessa Vinkenklooster,
Erik Hendrickx, and Herman Giongo on behalf of the ESAC Project Group

Comparison of the sales of veterinary antibacterial agents
between 10 European countries

Journal of Antimicrobial Chemotherapy
Antibiotic use in animals

- Veal calves
- Broilers
- Pigs
- Dairy cattles
Economic impact (2)
Food safety
Environment

Spread of resistant bacteria

Environment

Public
Development new antibiotics and resistance

Antibiotic deployment

Antibiotic resistance observed
International
Communication
Further information/references

• Website: http://www.government.nl/topics/antibiotic-resistance

• Fact Sheet: https://www.government.nl/documents/leaflets/2015/09/22/tackling-antibiotic-resistance
