

AMR Strategy in the Veterinary Sector

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TOPICS

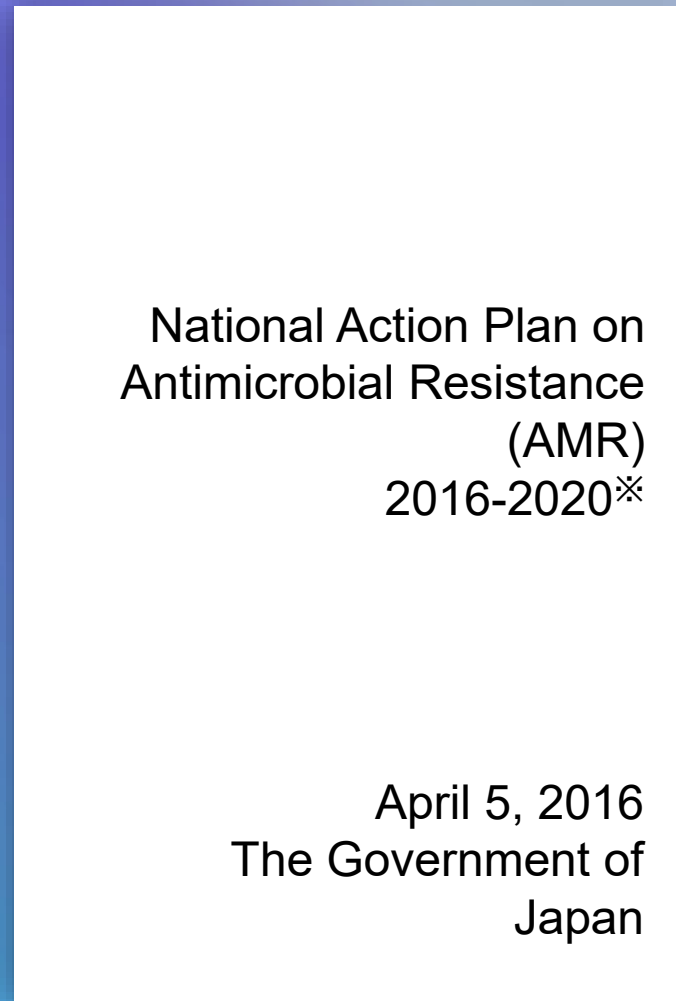
- **NATIONAL ACTION PLAN**
- **JVARM**
- **MISCELLANEOUS**

National Action Plan on AMR

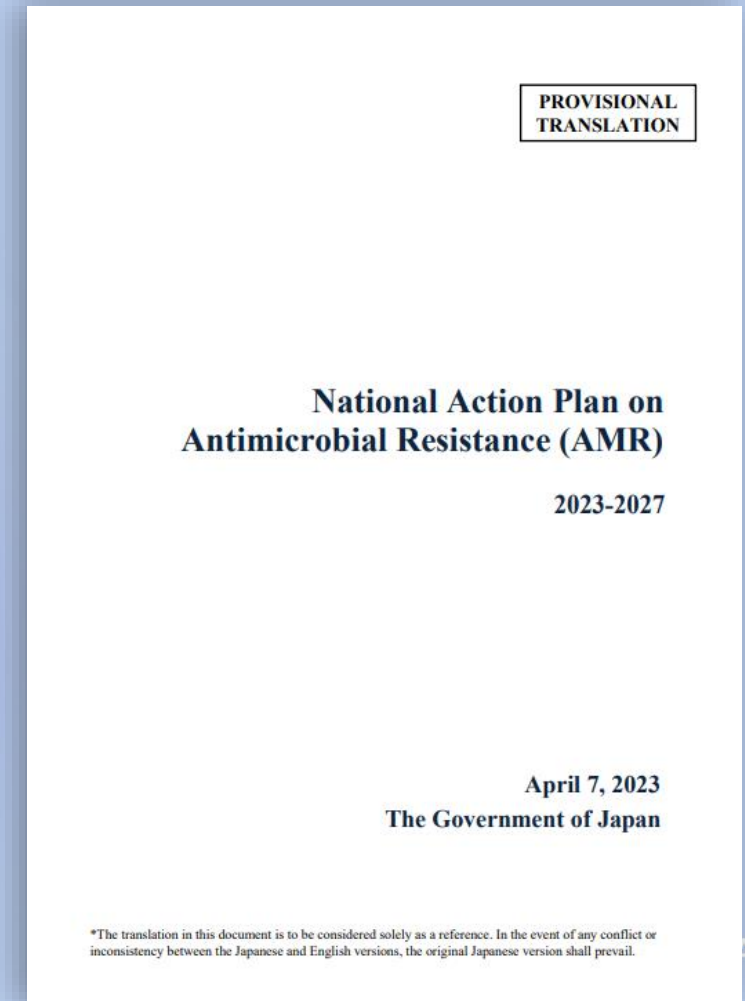
WHO: 2015



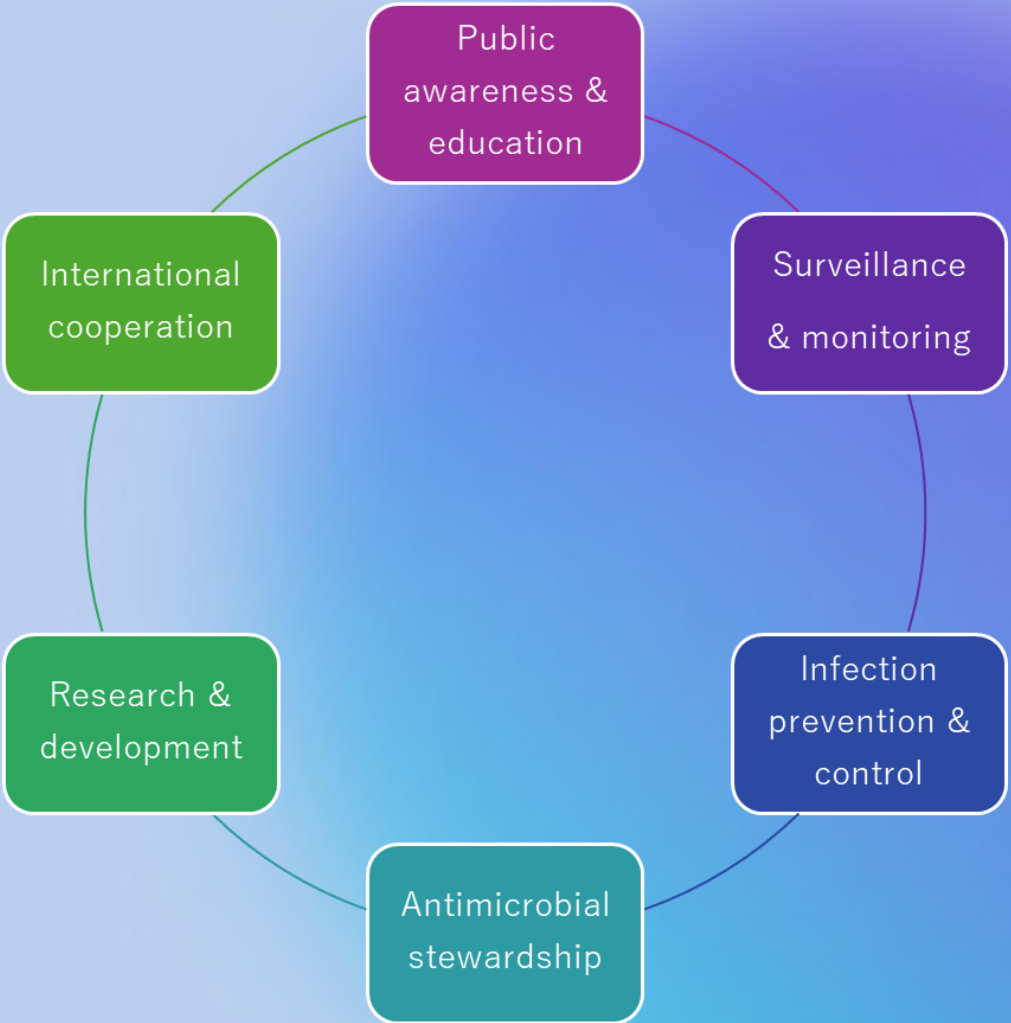
Japan: 2016



Japan: 2023



6 Targets of National Action Plans on AMR



Goal 1	Improve Public Awareness and Understanding, and Promote Education and Training of Professionals
Goal 2	Continuously Monitor Antimicrobial Resistance and Use of Antimicrobials, and Appropriately Understand the Signs of Change and Spread of Antimicrobial Resistance
Goal 3	Prevent the Spread of Antimicrobial-resistant Organisms by Implementing Appropriate Infection Prevention and Control
Goal 4	Promote Appropriate Use of Antimicrobials in the Fields of Healthcare, Livestock and Aquaculture
Goal 5	Promote Research on Antimicrobial Resistance and Foster Research and Development to Secure the Means to Prevent, Diagnose and Treat the Antimicrobial-resistant Infections
Goal 6	Enhance Global Multidisciplinary Countermeasures against Antimicrobial Resistance

Outcome Indices of National Action Plans

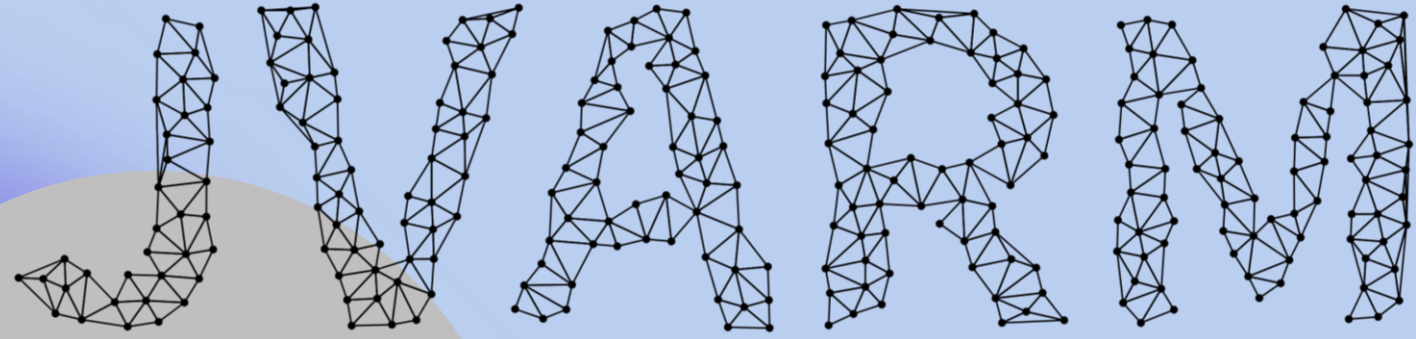
Category	Metric	2020	2027 Target Year
AMR	Tetracycline resistance of <i>E. coli</i>	Cattle 19.8% Pig 62.4% Chicken 52.9%	Cattle $\leq 20\%$ Pig $\leq 50\%$ Chicken $\leq 45\%$
AMR	3rd-gen. cephalosporin resistance of <i>E. coli</i>	Cattle 0.0% Pig 0.0% Chicken 4.1%	Cattle $\leq 1\%$ Pig $\leq 1\%$ Chicken $\leq 5\%$
AMR	Fluoroquinolone resistance of <i>E. coli</i>	Cattle 0.4% Pig 2.2% Chicken 18.2%	Cattle $\leq 1\%$ Pig $\leq 2\%$ Chicken $\leq 15\%$
AMU	Use of veterinary antibiotics in the livestock field	626.8 tonnes	15% reduction
AMU	Use of second-line drugs in the livestock field	26.7 tonnes	≤ 27 tonnes

Japanese Veterinary Antimicrobial Resistance Monitoring

JVARM

SINCE 1999

***16 years ahead of
the Global Action Plan (2015)***



The weight of active ingredients in veterinary drugs is reported by:

- Animal species
- Route of administration

This reporting format is compatible with WOA H ANIMUSE Option 3.

**Sales of
antimicrobials**

AMR
in foodborne
pathogens
/indicator bacteria

Samples from
Healthy animals

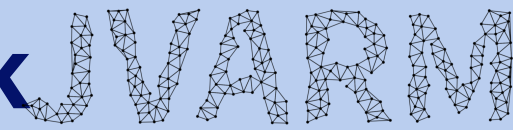
AMR
in animal pathogens

Samples from
Diseased animals

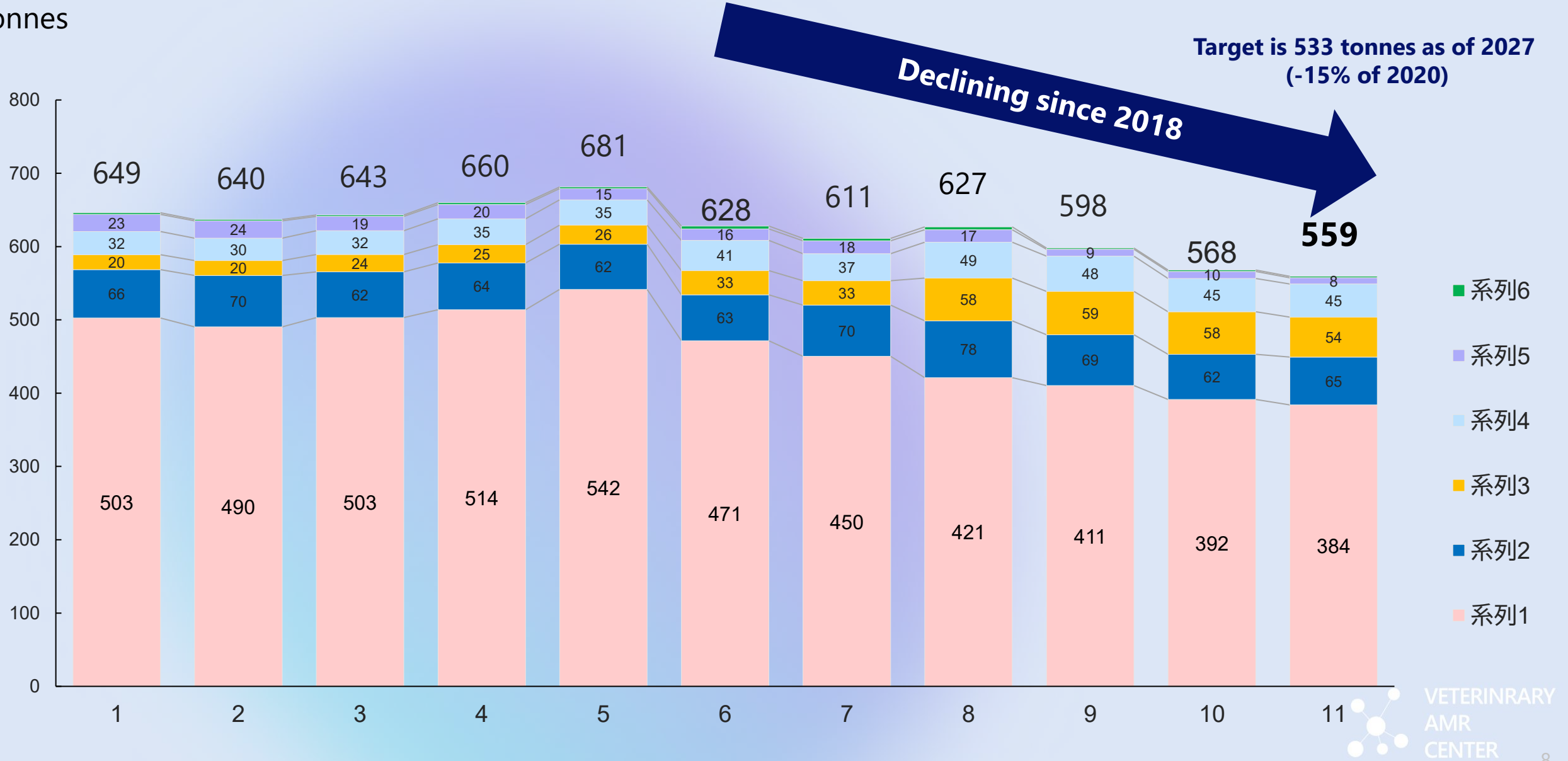
Animals are

- Pigs
- Cattle
- Chickens
- Dogs & Cats since 2017**
- Fish

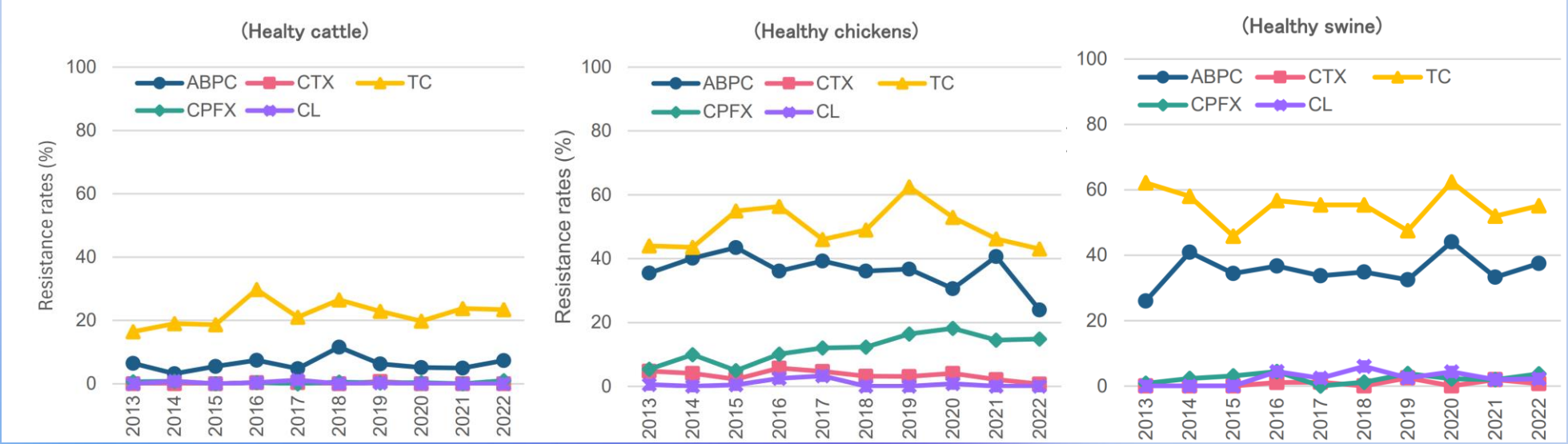
Trend of Antimicrobial Use for Livestock



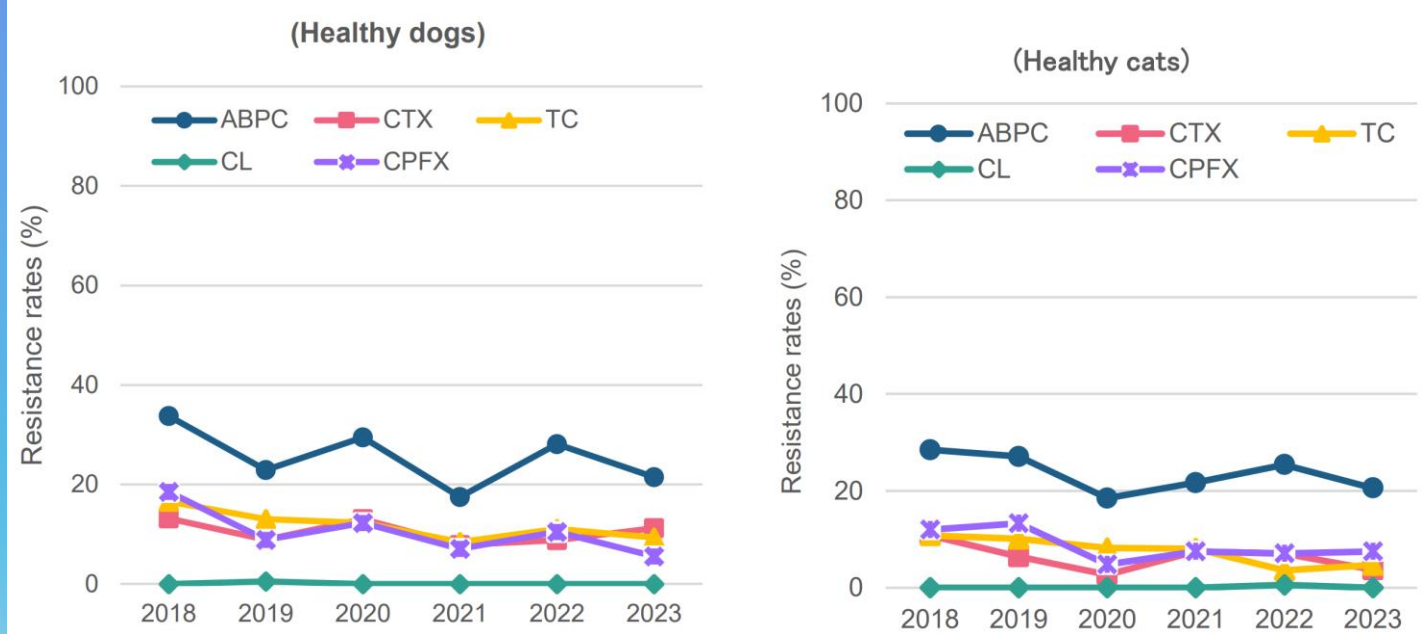
Tonnes



Trend of Resistance Rate of *Escherichia coli*



JVARM



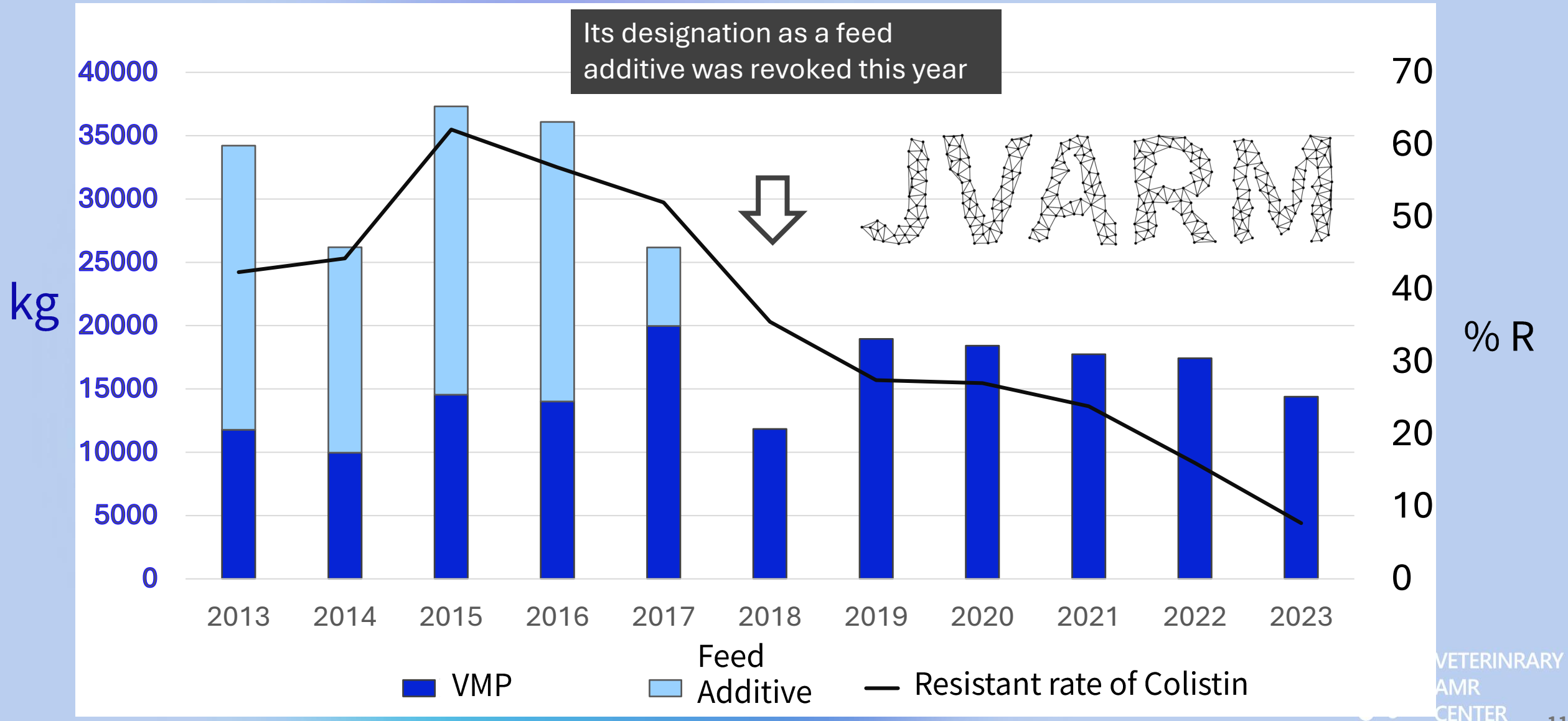
Risk Assessment and management

Risk management measures are based on risk assessments conducted by the Food Safety Commission of Japan (FSC), and our risk analysis framework is aligned with Codex guidelines and the WOAHA Code.

Risk Assessment Result	Veterinary drugs	Feed additives
High	- Prohibition of use etc.	Prohibition of use
Medium	- Restriction of usage (e.g. application period, target disease)	
	- Strict use as a second choice drug - Enhanced monitoring	
Low	- Continued monitoring	Continued monitoring
Negligible		

- The use of feed additives is regulated. Specific requirements, including prohibitions on use in milking cows and laying hens, are set out in the Feed Safety Act.
- The use of veterinary drugs is also restricted, and specific requirements—such as withdrawal periods prior to the shipment of livestock—are stipulated in the Act on Pharmaceuticals and Medical Devices.

Sales Volume and Resistance Rates of Colistin in *E. coli* from Diseased Pigs



One Health Approach in Japan

AMR One Health Surveillance

- **Antimicrobial Consumption Surveillance in Humans (JSAC/J-SIPHE)**
- **Resistant organisms in hospitalized patients (JANIS)**
- **Healthcare-Associated Infections in Hospitalized Patients (JANIS)**
- **Infections Caused by Drug-Resistant Bacteria (NESID)**

Human

Animals

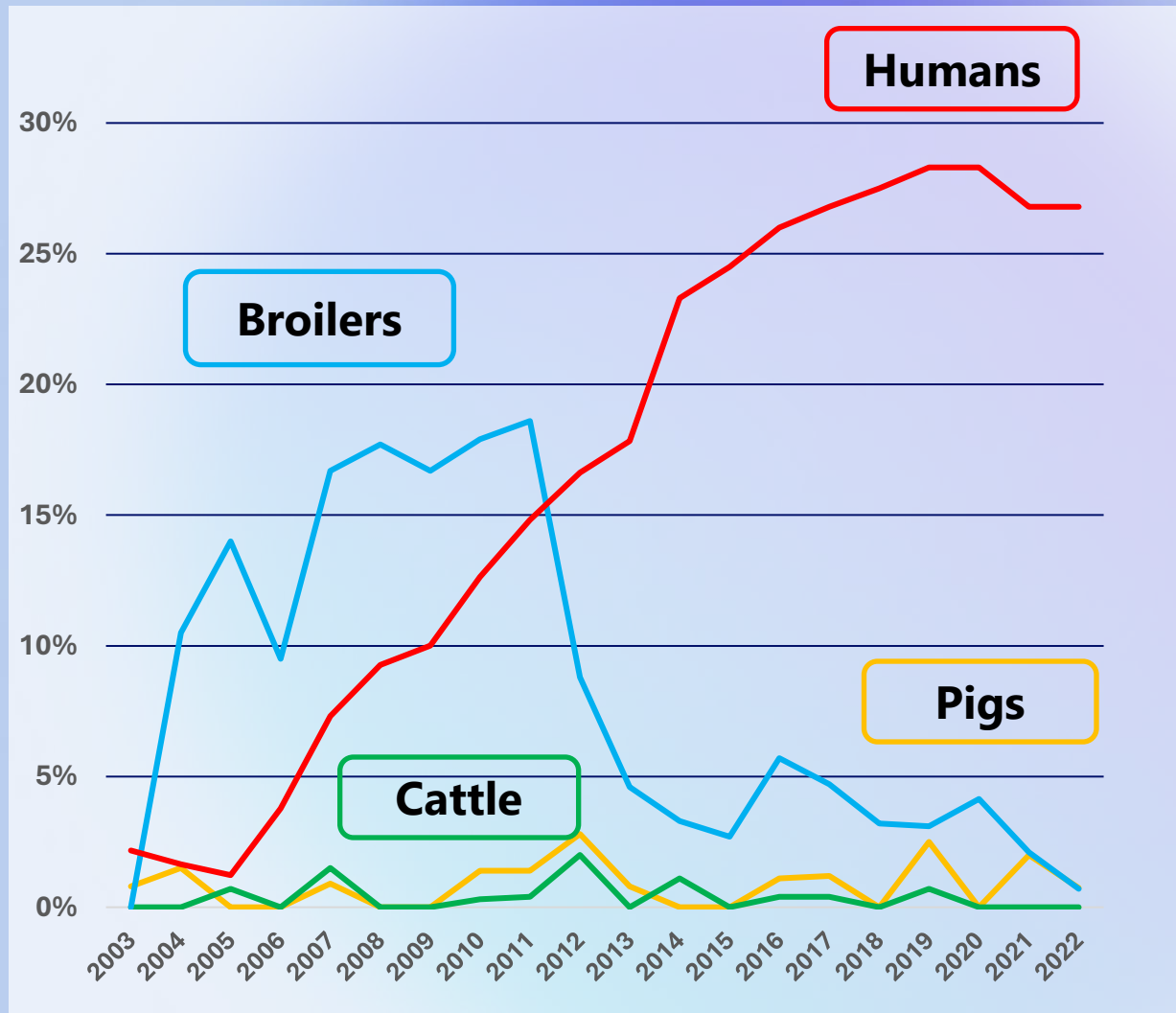
- **Amount of antimicrobials used in animals (JVARM)**
- **Resistant bacteria of livestock animals (JVARM)**
- **Resistant bacteria in companion animals (JVARM)**
- **Resistant bacteria in farm-raised aquatic animals (JVARM)**
- **Resistant bacteria in food**

Environment

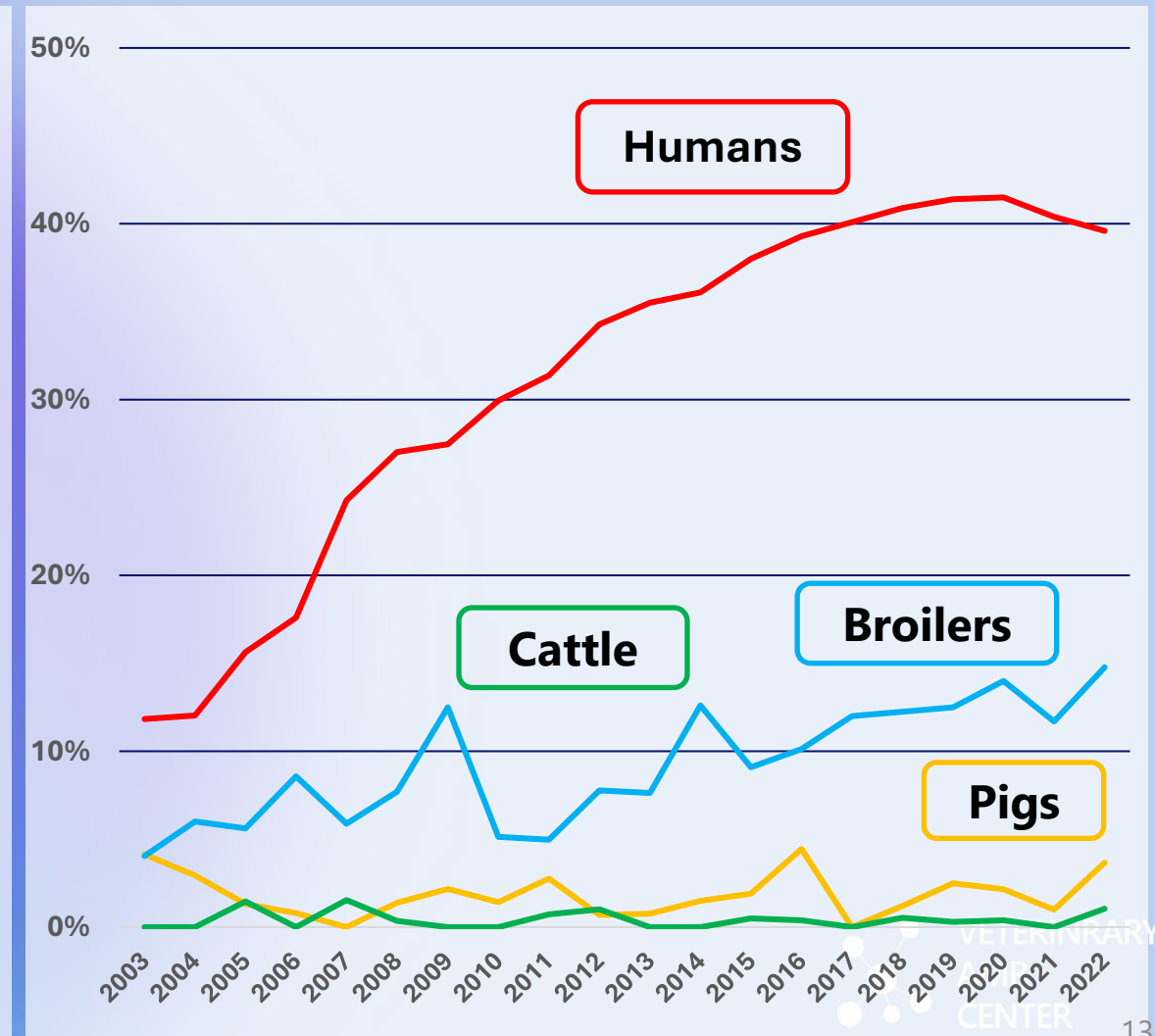
- **Antimicrobial Concentrations in the Environment etc.**

Comparison of the Resistant Rates in *Escherichia coli* From Humans and Food-producing Animal

3rd cephalosporins



Fluoroquinolones



International Cooperation

NVAL HAS BEEN ACTIVE AS THE WOA – COLLABORATING CENTRE SINCE 2010.

TRAININGS ARE HELD FOR AMR INSPECTORS FROM ASIA AND THE PACIFIC COUNTRIES.

- 2016 - 2018: Short-term Training (14 countries)
- 2019 - 2020: long-term Training (1 country)
- 2021: Online training (1 country)
- 2022: Regional short-term training (15 countries and regions)
- 2023: Regional short-term training (15 countries)
- 2024: Regional short-term advanced training (5 countries)
- 2025: Regional short-term training (4 countries)



MICHIKO KAWANISHI: MEMBER OF WOA AMR WORKING GROUP SINCE 2025

YUTA HOSOI: MEMBER OF WOA ELECTRONIC TECHNICAL GROUP (ETG) ON ANTIMICROBIAL USE DATA COLLECTION SINCE 2024

WOAH FOCAL POINT OF VETERINARY PRODUCT

MARI MATSUDA: FORMER MEMBER OF WOA ELECTRONIC TECHNICAL GROUP (ETG) ON ANTIMICROBIAL USE DATA COLLECTION 2020—2023

Data Sharing

One health report

Report of AMR
Combining human,
veterinary and
environmental medicines

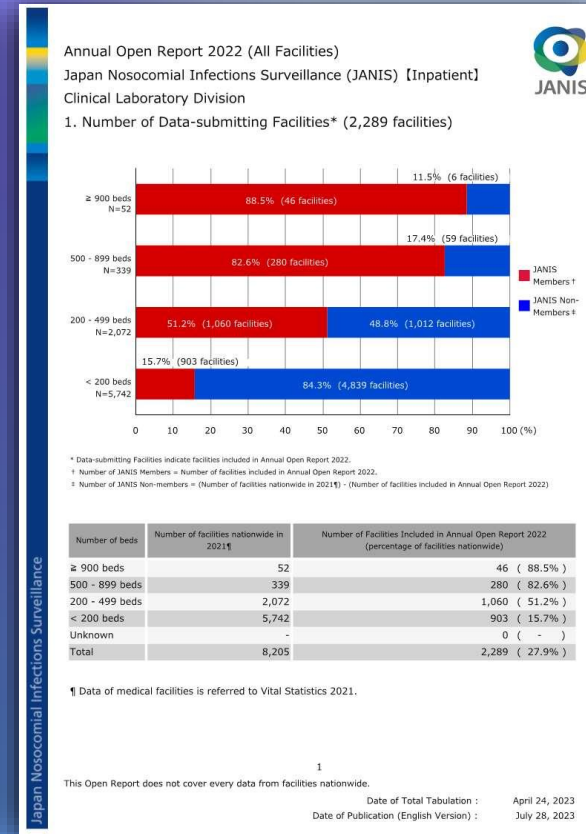
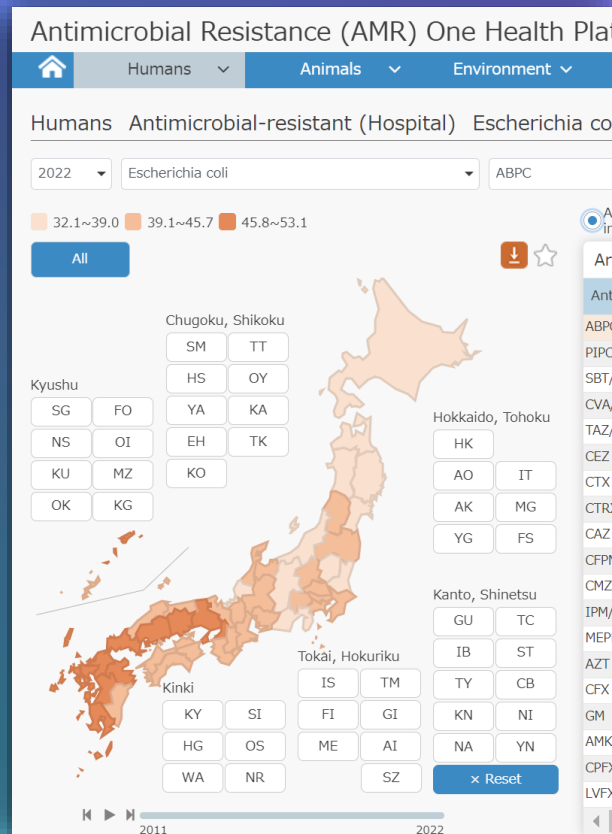
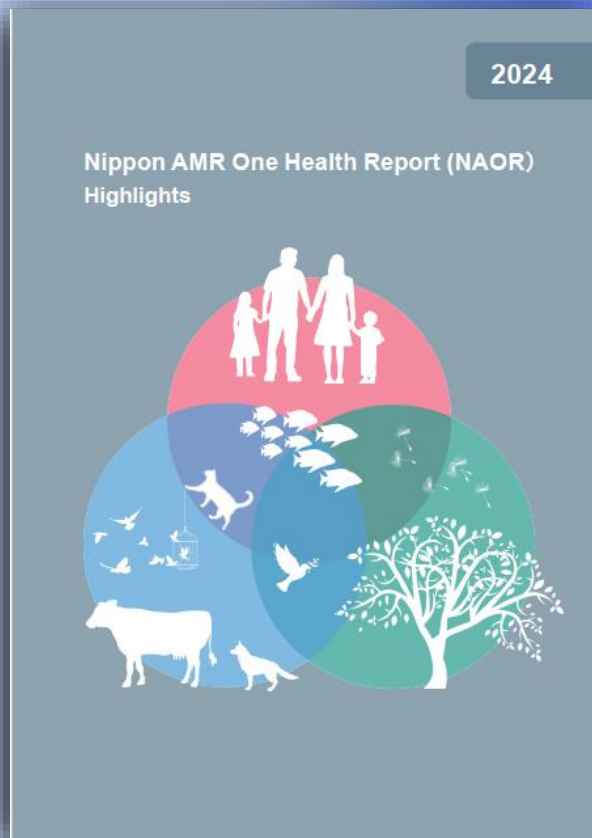
One health platform

Dashboard of AMR

JANIS report

*Japan Nosocomial
Infections Surveillance

JVARM report



Communication

For Medical Professions

- Guidelines
- Reports
- Infographics

医療関係者

抗菌薬使用の集計に関する用語集



PDF

抗菌薬使用の集計を行う上で重要な単位や指標を集め、解説しました。

医療関係者 一般の方

抗菌薬意識調査レポート2023

NEW



PDF

抗菌薬について一般の方を対象に行なった調査の結果報告です。

2022年 ▶ 2021年 ▶ 2020年 ▶
2019年 ▶ 2018年 ▶ 2017年 ▶

2023.10.26 更新

医療関係者 介護施設関係者

介護老人保健施設における医療関連感染症および抗菌薬使用に関する研究報告書

NEW



PDF

介護老人保健施設を対象にした感染症診療、抗菌薬使用状況等の調査報告書（2022年）です。

2019年 ▶

For General population

campaign held in a shopping mall



For Pet owners



Posters

For Veterinary professions

Guidelines

薬剤耐性菌のリスク低減

動物用抗菌剤の『責任ある慎重使用』を進めるために

慎重使用 抗菌剤



豚呼吸器病 (PRDC) における抗菌剤治療ガイドブック



愛玩動物における抗菌薬の慎重使用の手引き

～2020～



牛呼吸器病 (BRD) における抗菌剤治療ガイドブック 改訂第2版



抗菌薬を使う前に 一便利ツール



Youtube



For Farmers

Youtube



Thank you for visting us