Food safety across food chain

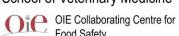
Animal Production and Health

Kohei Makita

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Outline

- Hazards in animal-source food production
- Ensuring safety of animal-source foods during production/processing phase
- OIE as standard setting organization













Hazards in animal-source food production

Farm

Infections with zoonotic

agents

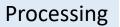






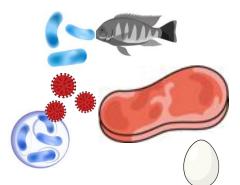






Infected products, contamination during processing

Eg. Salmonella Campylobacter







Distribution



Veterinary drugs, hormones



Molded feeds







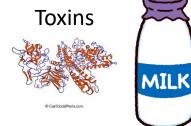




Antimicrobial resistant

bacteria, drug residue

Ponnoose, Lynn. JAMA 2012.





*Many toxins are <u>heat-resistant</u>















Ensuring safety of animal-source foods during production phase

Farm

1. Herd health management

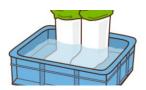
- Regular health check of animals
- Farm biosecurity

2. National disease control

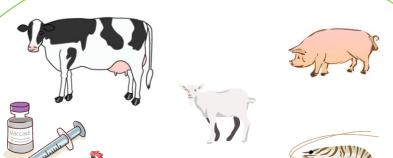
- Surveillance system
- Laboratory capacity
- Vaccination campaign

3. Veterinary drug use

- Prudent use of veterinary drugs
- Setting standards such as withdrawal period







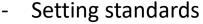




Ponnoose, Lynn. JAMA 2012.

4. Feed quality control





Surveillance and monitoring



5. Traceability

- Establishing a system of traceability
- Connecting farm to fork



















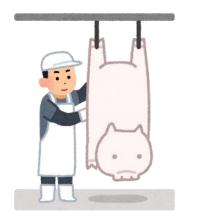
Ensuring safety of animal-source foods during processing phase

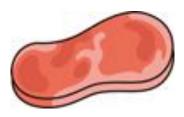
Processing

1. Slaughterhouse

- Clinical examination
- Inspection of carcass
- Hygienic handling of carcass
- Laboratory analysis
- Collaboration with veterinary authority









MILK





- Quality check of primary products
- Hazard Analysis Critical Control Point (HACCP)
- Collaboration with veterinary authority





3. Traceability

Connecting farm to fork













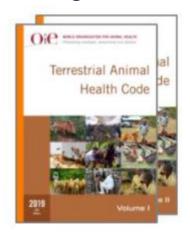


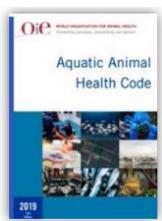


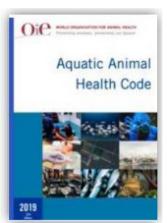


OIE as standard setting organization

- Terrestrial Animal Health Code and Aquatic Animal Health Code as bases of national legislation
- OIE National Focal Points of Animal Production Food Safety
 - Standard setting
 - Implementation
- OIE Collaborating Centre for Food Safety
 - Training/ seminar
 - Networking OIE National Focal Points



























Thank you for your attention!

















