



WORLD ORGANISATION FOR ANIMAL HEALTH

Protecting animals, preserving our future



OIE List of Antimicrobial Agents of Veterinary Importance and OIE Standards and Activities

Consultation meeting with stakeholders - Request from the European Commission for advice on the impact on public and animal health of the use of antibiotics in animals, London, UK, 28 February 2014

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Antimicrobial resistance – a global concern

- Antimicrobial agents are essential to ensure human health, animal health and welfare, and food security
- There is a lack of coherent global approaches to prevention and containment
- The human, animal and even plant sectors have a shared responsibility to prevent or minimise the development of antimicrobial resistance by both human and non-human pathogens

Global Status of AMR worldwide

- ❖ It is not a new phenomenon
- ❖ No control of antimicrobial circulation and use in more than 120 countries
- ❖ Need to establish measures for controls on: importation, production, distribution and use
- ❖ Falsified product make up a majority of circulating antimicrobials, growing importance on international trade
- ❖ Challenge in many developed countries: unrestricted direct access to antimicrobials by farmers and any user without veterinary oversight

OIE ACTIVITIES on AMR

OIE Activities on AMR

Existing standard adopted by 178 Countries on:

- Harmonisation of national antimicrobial resistance surveillance programmes
 - Monitoring of the quantities and usage patterns
 - Responsible and prudent use (Veterinary supervision)
 - Permanent risk assessment
 - Developing use of vaccines (research, standards)
- OIE List of Antimicrobial Agents of Veterinary Importance

(updated in 2013 to take into account concerns for human health)



OIE Activities on AMR



→ PVS pathway, Gap analysis

- **Veterinary Services** & Legislation (importation, distribution, use of antimicrobial)
- Nomination and training of **National Focal Points**
- Supporting **veterinary education** & day one competences
- Strengthening **veterinary statutory bodies** and **veterinary oversight** on the distribution and use of antimicrobials

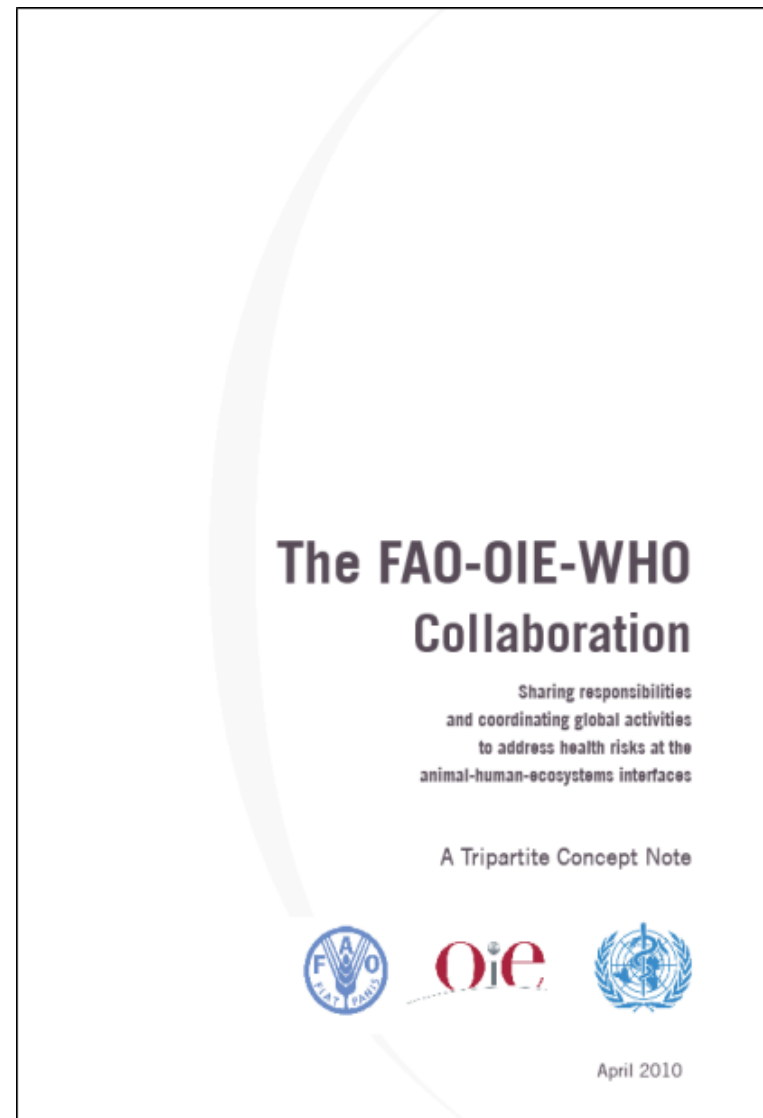
→ Regional and global Conferences (2013)

→ Supporting **quality veterinary medicines** and **harmonisation of national authorisation** (VICH)

OIE Activities on AMR

- AMR is one of the 3 top priorities addressed under the One Health agenda, with FAO and WHO

(tripartite Concept Note, 2010)



OIE Portal on Antimicrobial Resistance

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For the media

- > Towards a new concept of 'High Health, High Performance Horse'
- > World Veterinary Day Award 2014
- > Update January 2014 - Questions and Answers MERB coronavirus (CoV)
- + View all press releases
- + Access all media resources

Highlights

South Africa recovered its zonal FMD free status without vaccination



Oie Videos

Latest disease alerts

18.02.14: Crayfish plague (*Aphanomyces astaci*) in Chinese Taipei

- + Latest news on animal diseases
- + Legal basis of disease notification
- + World Animal Health Information Database (WAHID)
- + Disease distribution maps



Editorial

81st General Session of the OIE: Continuing mobilisation of efforts to protect animals



No fewer than 800 participants, representing the vast majority of the 178 Member countries of the World Organisation for Animal Health (OIE)...

- + More
- + View all editorials

Publications and documentation

- > Online Bookshop
- + Featured publication
- > Scientific and Technical Review

Most recent issues:

- * Coordinating surveillance policies in animal health and food safety 'from farm to fork', Vol. 52 (2), August 2013
- * Brucellosis: recent developments towards 'One Health', Vol. 52 (1), April 2013

Pluri thematic Issue: peer-reviewed papers

- > Bulletins online (OIE Magazine): Latest issue
- > Document database



Specific issues

Animal welfare



Food safety



OIE A-Z



Biodiversity



Rabies Portal

- > FAO/OIE global conference on foot and mouth disease control - Bangkok (Recommendations)
- > Biological threat reduction
- > Veterinary Education Core Curriculum
- > Competencies of graduating veterinarians
- > Self-declared disease status
- > Schmallenberg virus
- > FAO-OIE-WHO Concept Note on health risks at human-animal interface

Official disease status

OIE World Conferences

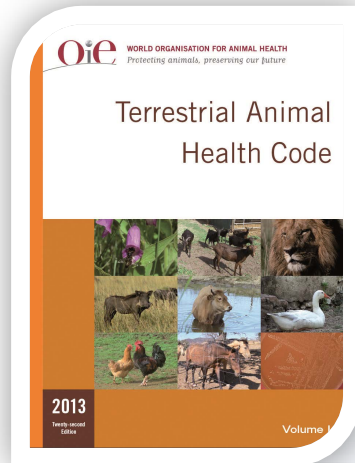
> 4-6 December 2013
Global Conference on Veterinary Education and the Role of the Veterinary Statutory Body - Foz de Iguaçu (Brazil)
Recommendations-Final Version

- + View OIE World Conferences
- + View the Recommendations of all World Conferences
- + Other OIE Key Events
- + Other Key Events

Follow us on   

OIE STANDARDS and GUIDELINES

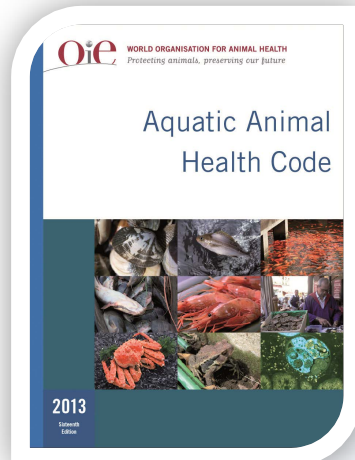
Terrestrial Animal Health Code 2013



- **Section – 6: Veterinary Public Health**

- | Chapter 6.6. Introduction to the recommendations for controlling antimicrobial resistance;
- | Chapter 6.7. Harmonisation of national antimicrobial resistance surveillance and monitoring programmes;
- | Chapter 6.8. Monitoring of the quantities and usage patterns of antimicrobial agents used in food producing animals;
- | Chapter 6.9. Responsible and prudent use of antimicrobial agents in veterinary medicine;
- | Chapter 6.10. Risk assessment for antimicrobial resistance arising from the use of antimicrobials in animals.

Aquatic Animal Health Code 2013



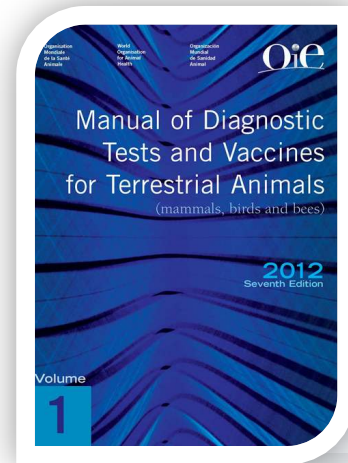
- **Section – 6: Veterinary Public Health**

- | Chapter 6.2. Introduction to the recommendations for controlling antimicrobial resistance;
- | Chapter 6.3. Principles for responsible and prudent use of antimicrobial agents in aquatic animals;
- | Chapter 6.4. Monitoring of the quantities and usage patterns of antimicrobial agents used in aquatic animals;
- | Chapter 6.5. Development and harmonisation of national antimicrobial resistance surveillance & monitoring programmes for aquatic animals;
- | Chapter 6.x. Risk assessment for antimicrobial resistance arising from the use of antimicrobials in aquatic animals **(under dvpt)**.

Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2012

- Part 3: General Guidelines:
 - | 3.1. Laboratory methodologies for bacterial antimicrobial susceptibility testing.

<http://www.oie.int/en/international-standard-setting/terrestrial-manual/access-online/>



**OIE LIST OF
ANTIMICROBIAL AGENTS
OF VETERINARY
IMPORTANCE**

OIE List of Antimicrobial Agents of Veterinary Importance - Background

- Two FAO/OIE/WHO Expert Workshops on Non-Human Antimicrobial Usage and Antimicrobial Resistance held in 2003 and 2004
- Recommendation that Antimicrobial classes that are “critically important” for human and veterinary medicines need to be defined and identified by WHO and OIE respectively
- All antimicrobial agents used in food-producing animals

OIE List of Antimicrobial Agents of Veterinary Importance - Background

- The OIE list was developed by an OIE *ad hoc* Group based on a questionnaire sent to all the OIE Member Countries and international organisations* and endorsed by the Biological Standard Commission
- Finally adopted in May 2007 by the World Assembly of Delegates (Resolution No.XXVII) during the OIE General Session
- Updated in 2013 to take into account concerns for human health (WHO and FAO participated in this task)

OIE List of Antimicrobial Agents of Veterinary Importance - Background

- Objective of the list: to safeguard the efficacy and availability of Veterinary Antimicrobial Agents for diseases where they are few or no antimicrobial alternatives
- The list is intended to help veterinarians in their therapeutic choice

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **Background / History**

- ✓ Background
- ✓ Preparation of the draft list (2004)
- ✓ Discussion at the 74th International Committee in May 2006
- ✓ Refinement of the List
- ✓ Adoption of the List
- ✓ Revision of the list of antimicrobial agents of veterinary importance (July 2012)

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **Criteria used for categorisation of veterinary important antimicrobial agents**
 - ✓ **Criterion 1** – Response rate to the questionnaire regarding Veterinary Critically Important Antimicrobial Agents: the criterion was met when a majority of the respondents (more than 50%) identified the importance of the antimicrobial class in their response to the questionnaire
 - ✓ **Criterion 2** – Treatment of serious animal disease and availability of alternative antimicrobial agents: the criterion was met when compounds within the class were identified as essential against specific infections and there was a lack of sufficient therapeutic alternatives

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **Criteria used for categorisation of veterinary important antimicrobial agents (contd)**

- ✚ **Veterinary Critically Important Antimicrobial Agents:** are those that meet **BOTH** criteria 1 **AND** 2
- ✚ **Veterinary Highly Important Antimicrobial Agents:** are those that meet criteria 1 **OR** 2
- ✚ **Veterinary Important Antimicrobial Agents:** are those that meet **NEITHER** criteria 1 **OR** 2

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **The List includes the following classes (26):**

Aminoglycosides, Ansamycin-Rifamycins, Arsenical, Bicyclomycin, Cephalosporins, Fusidic acid, Ionophores, Lincosamides, Macrolides, Aminocoumarin, Orthosomycins, Penicillins, Phenicols, Phosphonic acid, Pleuromutilins, Polypeptides, Quinolones, Quinoxalines, Sulfonamides, sulfonamides+Diaminopyrimidines, Diaminopyrimidines, Streptogramins, Tetracyclins, Thiostrepton

OIE List of Antimicrobial Agents of Veterinary Importance – Content

Antimicrobial agents	VCIA	VHIA	VIA
Aminocoumarin			x
Aminoglycosides	x		
Ansamycin-Rifamycins		x	
Arsenical			x
Bicyclomycin			x
Cephalosporins 1 st and 2 nd generations		x	
Cephalosporins 3 rd and 4 th generations	x		
Fusidic acid			x
Ionophores		x	
Lincosamides		x	
Macrolides	x		
Orthosomycins			x
Penicillins	x		
Phenicol	x		
Phosphonic acid		x	
Pleuromutilins		x	
Polypeptides		x	
Quinolones 1 st generation		x	
Quinolones 2 nd generation	x		
Quinoxalines			x
Sulfonamides	x		
Sulfonamides+Diaminopyrimidines	x		
Diaminopyrimidines	x		
Streptogramins			x
Tetracyclins	x		
Thiostrepton			x

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **Recommendations**

- Any use of antimicrobial agents in animals should be in accordance with OIE standards on responsible and prudent use laid down in Chapter 6.9. of the *Terrestrial Animal Health Code* and in the Chapter 6.3. of the *Aquatic Animal Health Code*
- Antimicrobial agents in the OIE List should be classified according to the three categories (VCIA, VHIA and VIA)

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **Recommendations (contd)**

- For a number of Antimicrobial Agents there are no or few alternatives for the treatment of diseases in target species. In this context, particular attention paid on VCIA and VHIA.
- Among the VCIA, some are also considered of critical importance for human and animal health (third and fourth generation Cephalosporins, and Fluoroquinolones)

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **Recommendations (contd)**

- For those VCIA:

- Not to be used as preventive treatment in feed or water or in absence of clinical signs;
- Not to be used as first line, unless justified and bacteriological test;
- Extra label/off label limited and reserved for instances where no alternatives are available.

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **Recommendations (contd)**

- Antimicrobial classes / sub classes used only in human medicine are not included in this OIE List. Recognising the need to preserve the effectiveness of the antimicrobial agents in human medicine, careful consideration should be given regarding their potential use (including extra-label/off-label use) / authorisation in animals.

OIE List of Antimicrobial Agents of Veterinary Importance – Content

- **List available on the OIE website at:**

http://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/OIE_list_antimicrobials.pdf



Thank you for your attention



Organisation Mondiale
de la Santé Animale

World Organisation
for Animal Health

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de Sanidad Animal