



**Jing Wang**

Regional Veterinary Officer

# OIE standards and guidelines relevant to swine disease control and diagnosis

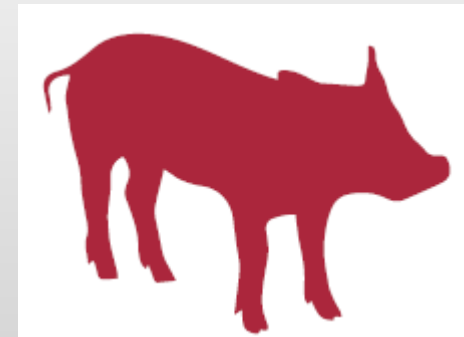
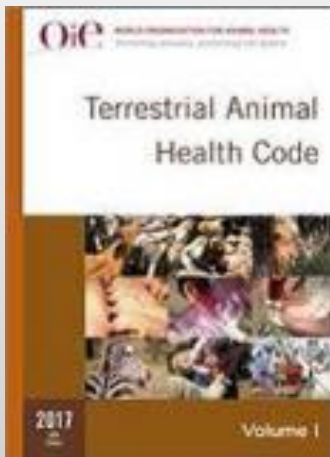
30 -31 October

Beijing, China

Regional workshop on Swine Disease Diagnosis

# Content

- Standards setting procedure
- Swine disease standards



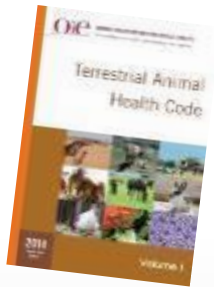
# WTO's SPS Agreement



- Safe product without disturbing trade
- International standards
- The *Three Sister*
- The OIE:
  - Animal health
  - Standards for trade
    - live animals
    - animal products



# OIE Terrestrial Animals Standards



- *Terrestrial Code*: Standards for disease control and safe international trade



- *Terrestrial Manual*: Standards for laboratory diagnostic methods and requirements for the production and control of vaccines

<http://www.oie.int/en/international-standard-setting/overview/>

Commissions,  
OIE delegates,  
stakeholders

Request

Specialist  
Commissions  
(Scientific & Code)

Support (Expert Advice: *Ad hoc*  
Groups)

Specialist  
Commissions  
(Scientific & Code)

Draft text

ASSEMBLY

Adoption

Development  
International  
standards

Member  
Countries  
Comments

OIE  
INTERNATIONAL  
STANDARD

# Scientific-Based Standards

The image is a screenshot of the OIE (World Organisation for Animal Health) website. At the top left is the OIE logo and the text 'WORLD ORGANISATION FOR ANIMAL HEALTH' and 'Protecting animals, preserving our future'. At the top right, there are options for font size and language (Français, English, Español), along with a search bar. A navigation menu is visible with items: Home, About us, Scientific expertise, Solidarity, Animal health in the World, and Standard Setting. The 'Standard Setting' menu is open, showing a list of items including Overview, Application of compartmentalisation, Standard-setting: the Codes, Terrestrial Code, Aquatic Code, Aquatic Manual, Specialists commissions & working groups & ad hoc Groups, Code Commission & reports, Laboratories Commission & reports, Working Groups & Reports, and Implications of private standards. A red box labeled 'Scientific Commission' points to the 'Specialists commissions & working groups & ad hoc Groups' item. Another red box labeled 'Code Commission' points to the 'Code Commission & reports' item. A third red box labeled 'Ad hoc Groups' points to the 'Working Groups & Reports' item. Below the navigation menu, there is a banner for the 'Annual Report 2017' with the text 'Healthy animals for a better life' and the URL 'www.oie.int/report2017'. Below the banner is a pagination bar with numbers 1 through 15, where '6' is highlighted. To the right of the banner is a 'LATEST D' section with a date '26.07.18: A'. Below that is a 'KEY DA' section with a date '20-25 MAY 2018' and the text '86th General Se of OIE Delegates'. Below that is a 'PUBLICATIONS' section with the text 'ONLINE BOOKSHOP' and 'International standards, periodic publications, monographs, proceedings of international'. On the left side of the page, there is a 'THEMES' section with 'ONE HEALTH' and 'One Health' text, and 'ANIMAL DISEASES' and 'ANTIMICROBIAL RESISTANCE' text. At the bottom left is the OIE logo, and at the bottom right is the text 'World Organisation for Animal Health · Protecting animals, Preserving our future | 6'.

OIE WORLD ORGANISATION FOR ANIMAL HEALTH  
Protecting animals, preserving our future

Font size: - AAA + Language: | Français | English | Español  
Keywords Search + Advanced search

Home About us Scientific expertise Solidarity Animal health in the World Standard Setting

Annual Report 2017  
Healthy animals for a better life  
www.oie.int/report2017  
Discover the numerous actions carried out by the OIE in 2017

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More news

THEMES

ONE HEALTH  
One Health

ANIMAL DISEASES

ANTIMICROBIAL RESISTANCE

STANDARDS AND

Standard Setting

Overview  
Application of compartmentalisation  
Standard-setting: the Codes  
Terrestrial Code  
Access online  
Terrestrial Code  
Access online  
Aquatic Code  
Access online  
Aquatic Manual  
Access online  
Specialists commissions & working groups & ad hoc Groups  
Code Commission & reports  
Laboratories Commission & reports  
Working Groups & Reports  
Implications of private standards

Introduction to Specialist Commissions  
Facilitating safe trade  
Legal rights and obligations  
OIE Observatory

Scientific Commission

Code Commission

Ad hoc Groups

20-25 MAY 2018  
86th General Se of OIE Delegates

6-7 SEPTEMBER 2018  
Global Conference for a PPR-free World

29-31 OCTOBER 2018  
2nd OIE Global Conference on Antimicrobial Resistance and the Prudent use of Antimicrobials in Animals

PUBLICATIONS

ONLINE BOOKSHOP  
International standards, periodic publications, monographs, proceedings of international

World Organisation for Animal Health · Protecting animals, Preserving our future | 6

# International Standards for Swine Terrestrial Code

## Suidae:

-Ch 15.1. ASF



-Ch 15.2. CSF

-Ch 15.3. PRRS

Infection with *Taenia solium*

(Porcine cysticercosis)

-Ch 15.4. Transmissible

Gastroenteritis (TGE)

## Various Species

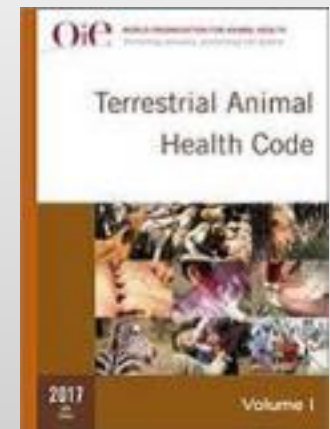
- Ch 8.2. Infection with Aujeszky virus

- Ch 8.4. Infection with *Brucella abortus*, *B. melitensis* and *B. suis*

- Ch. 8.5. Inf with *Echinococcus Granulosus*

- Ch. 8.8. Foot and mouth disease

- Ch 8.17. Infection with *Trichinella* spp.



# International Standards for Swine Terrestrial Code

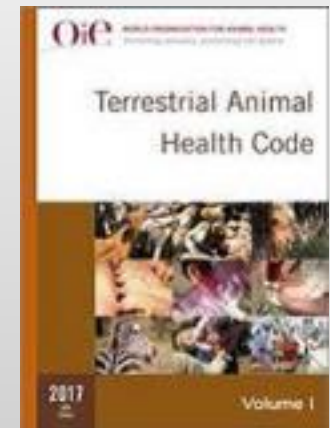
## Horizontal Chapters

- Ch 1.1. Notification of diseases,
- Ch 1.4. Animal health surveillance
- Ch 4.Y. New chapter on official control of listed disease (for comments)
- Ch 4.Z. New introductory chapter for Section 4 on Introduction to recommendations for disease prevention and control (for comments)



## Other sections:

Risk Analysis  
Quality Veterinary Services  
Welfare,  
(...)





# International Standards for Swine Terrestrial Manual

## Suidae (11)

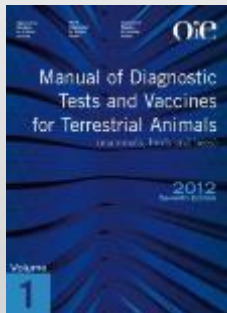
- Ch 2.8.1. African swine fever
- Ch 2.8.3. Classical swine fever
- Ch 2.1.4 Porcine Brucellosis
- Ch 2.8.8 Swine Influenza
- (...)

## Various Species

- Ch 3.1.2 Aujeszky's disease
- Ch 3.1.8 Foot and mouth disease
- Ch 3.1.20 Infection with *Trichinella* spp  
(.....)

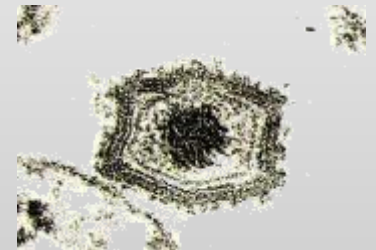
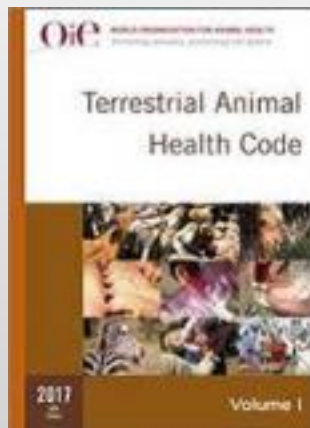
## Horizontal Chapters

- Ch 1.1.1. Collection and shipment of diagnostic specimens
- Ch 1.1.3. Biosafety and biosecurity in laboratory
- Ch 1.1.4. Quality management in laboratories
- Ch 1.1.10 International standards for vaccine banks
- (...)



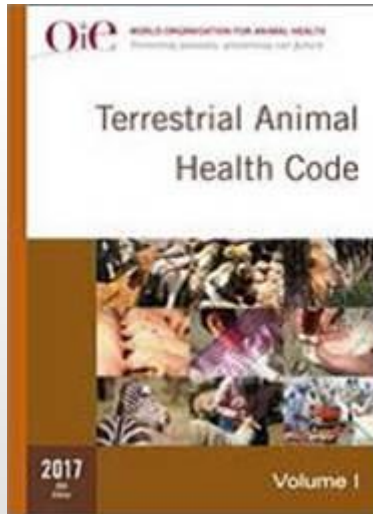
# Terrestrial Animal Health Code

## Chapter 15.1 African Swine Fever



# Chapter 15.1 Infection with African swine fever virus

- General provisions
- ASF status of country zone or compartment
- Country or zone free from ASF
- Compartment free from ASF
- Establishment of a containment zone
- Recovery of free status
- Provisions for importation
  - Live animals
  - Semen and embryos
  - Animal products
- Procedures for inactivation of ASFV
- Surveillance



# New features of the ASF chapter

- More precise case definition
- Provisions for freedom in domestic and captive wild pigs 'only'
- Trade of commodities of domestic/captive pigs even if ASFv is present in wild/feral pig population
- Containment zone
- Recommendations for trade adjusted to the risk (live animals, semen, fresh meat from not free countries or zones)
- Virus inactivation procedures based on the latest scientific knowledge
- Recommendations for surveillance

# ASF country or zone freedom



## SELF-DECLARATION (non official status)

- Historical freedom (Art. 1.4.6) or
- Freedom in all suids
  - No cases in all suids 3 years or 12 months if no ticks
  - Surveillance and Importation control
- Freedom in domestic/captive pigs
  - No cases in domestic/captive pigs during the past 3 years or 12 months if no ticks
  - Surveillance and Importation control according to the chapter

Commodities of domestic/captive pigs could be traded safely if done in compliance with the provisions of the chapter even if ASFV is present in wild/feral pigs.

# Some examples (I)

- Importation of live domestic pigs from not free countries
  - No clinical sign **AND**
    - 3 months in a compartment **OR**
    - 30 days in quarantine station and virological and serological test



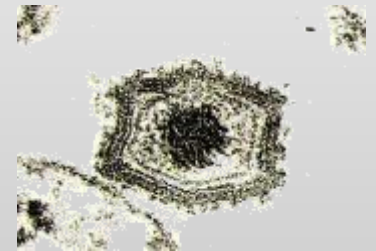
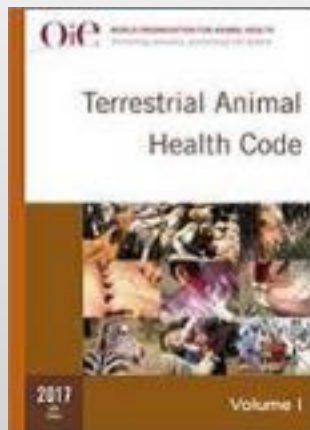
# Examples (II)

- Importation of fresh meat of domestic pigs from not free countries
  - Herds with no cases for the last 3 years (12 months if ticks are not involved)
  - Representative samples
  - Slaughtered in an approved abattoir
  - Avoid contact with any source of virus



# Terrestrial Animal Health Manual

## Chapter 3.8.1 African Swine Fever





# Chapter 3.8.1 African Swine Fever



## B. DIAGNOSTIC TECHNIQUES

*Table 1. Test methods available and their purpose*

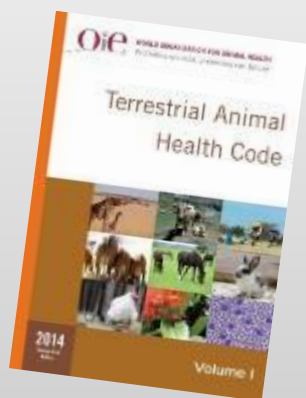
Method	Purpose					
	Population freedom from infection	Individual animal freedom from infection prior to movement	Contribute to eradication policies	Confirmation of clinical cases	Prevalence of infection – surveillance	Immune status in individual animals or populations post-vaccination
<b>Agent identification</b>						
Virus isolation/ HAD test <sup>1</sup>	n/a	n/a	++	+++	++	n/a
FAT	n/a	n/a	++	++	+	n/a
ELISA for antigen detection	+	++	+	+	+	n/a
Conventional PCR	++	++	++	++	++	n/a
Real-time PCR	+++	+++	+++	+++	+++	n/a

- 1.3 Detection of virus genome by the polymerase chain reaction



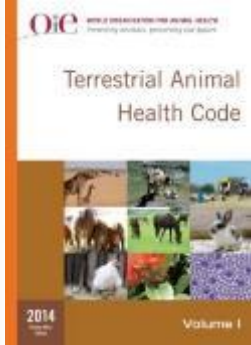
# Terrestrial Animal Health Code

## Chapter 15.2 Infection with CSFv



# Chapter 15.2 Infection with CSFv

- General provisions
- CSF status of country zone or compartment
- CSF free country, zone or compartment
- Establishment of a containment zone
- Recovery of free status
- Provisions for importation
  - Domestic and captive wild pigs
  - Wild and feral pigs
  - Semen, embryos
  - Fresh meat and meat products
  - Other products (bristles, litter, manure)
- Procedures for inactivation of CSFv
- Surveillance



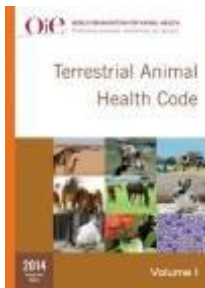
# Classical Swine Fever

## OIE disease status



### Chapter 1.6 Procedures official recognition

- Questionnaire-Dossier (Art 1.6.10 CSF & Ch. 15.2)
  - Introduction
  - Veterinary System
  - Eradication
  - Diagnosis
  - Surveillance
  - Prevention
  - Contingency plan
  - Compliance with the Terrestrial Code
  - Recovery free status



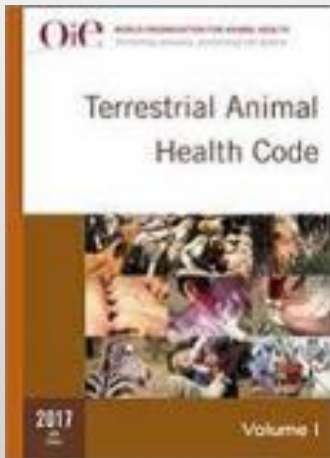
OIE HQ -> *Ad hoc* Group -> Scientific Commission



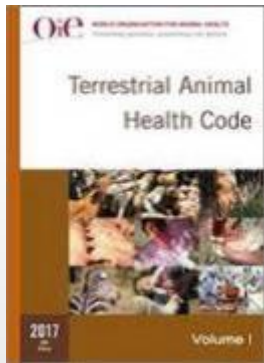
Member Countries (60 days) -> OIE General Assembly

# Terrestrial Animal Health Code

## Chapter 15.5. Infection with PRRSV



# Chapter 15.5. Infection with PRRSV



- General provisions (case definition, incubation period, etc)
- Safe Commodities
- PRRS free country, zone or compartment
- Recovery of free status
- Provisions for importation
  - Domestic and captive wild pigs
  - Semen, embryos
- Surveillance

# General provisions

**Case Definition:** Infection of domestic and captive wild pigs with PRRSV:

1) Isolation of PRRSV, excluding vaccine strains,

OR

2) antigen or ribonucleic acid specific to PRRSV, which is not a consequence of vaccination, epi linked to a confirmed or suspected case PRRS

OR

3) Isolation of PRRSV or RNA vaccine strain in an unvaccinated animals

OR

4) antibodies specific to PRRSV, which is not a consequence of vaccination and epi links to a confirmed or suspected case.

**Incubation period:** 14 days

# Safe Commodities

- Hides, skins and trophies;
- Bristles
- Meat products;
- Meat-and-bone meal
- Blood products;
- Casings;
- Gelatine.

# Free Country or Zone

- Notification, early detection and surveillance
- No cases in 12 months
- No vaccination (inactivation) 12 months
- No vaccination (MLV) 24 months



# Take home message



- Transparent and inclusive standard setting process based on science
- Agree by all Member Countries
- Aim to facilitate safe international trade
- Dynamic and adjusting to new scientific evidence

# Thank you for your attention



12, rue de Prony, 75017 Paris, France  
[www.oie.int](http://www.oie.int)