ACTIVITIES OF THE WORLD ORGANISATION FOR ANIMAL HEALTH (OIE) RELATED TO BEE HEALTH

OIE Symposium on emerging infectious agents in honey bees and OIE-listed diseases
2 October 2017, Istanbul, TURKEY

Dr François Diaz
f.diaz@oie.int
OIE Science & New Technologies Department
Introduction

- Overview of the OIE
- World animal disease situation
- OIE standards (standards, guidelines and recommendations) related to bee health
- Other OIE tools relevant for bee health
OVERVIEW OF THE OIE
History

An intergovernmental organisation established 20 years before the United Nations

1924
Creation of the Office International des Epizooties (OIE)

1945
Creation of the United Nations

2003
New Name: World Organisation for Animal Health (OIE)

Headquarters in Paris (France)

5 Regional Representations

7 Sub-Regional Representations & Sub-Regional Offices
Regional (RR) and Sub-Regional (RSR) Representations

Under the direct authority of the Director General
Collaborate closely with Regional Commissions
181 Member Countries in 2017

Certain countries belong to more than one region
Structure of the OIE

World Assembly of Delegates

Council

Director General

Specialist Commissions
Code, Laboratories, Aquatic animals, Scientific

Regional Commissions
Africa, Americas, Asia, the Far East and Oceania, Europe, Middle East

Collaborating Centres
References Laboratories

Headquarters

Ad hoc Groups
Working Groups

Regional Representations
OIE global mandate

"To improve animal health, veterinary public health and animal welfare worldwide"
OIE key missions

- Transparency of the world animal disease situation
- Sanitary safety of international trade of animals and animal products
- Scientific excellence
- Good Governance of Veterinary Services
- Improve animal health management worldwide
- Food security and safety
- Animal welfare
WORD ANIMAL DISEASE SITUATION
World Animal Disease Situation

- Notification of the epidemiological situation from all the OIE Member Countries to the OIE for a limited number of diseases listed by the OIE and regularly updated as well as for emerging diseases with significant morbidity or mortality, or zoonotic potential.

- Currently, six bee diseases are present on this OIE list: Acarapisosis of honey bees, American foulbrood of honey bees, European foulbrood of honey bees, Small hive beetle infestation (*Aethina tumida*), Tropilaelaps infestation of honey bees and Varroosis of honey bees.

OIE STANDARDS RELATED TO BEE HEALTH
OIE Standards

OIE develops standards in relation with its mandate:

- for the prevention and control of animal diseases as well as for the safe trade of animals and animals products (mandated under the SPS agreement of the WTO for this)

- for diagnostic tests and vaccines as well as for veterinary laboratories

- for animal production food safety and to promote science-based animal welfare
OIE Standards

**CODES**
- Terrestrial
- Aquatic

**MANUALS**
- Terrestrial
- Aquatic

Codes and Manuals available on the OIE website
General process for setting and updating OIE Standards

World Assembly, Commissions, Delegates

Issue

Specialist Commissions

Review

Advice of experts or other Specialist Commissions

Draft text

1

Delegates

World Assembly of Delegates

Adoption

Delegates

OIE STANDARD
Process for setting and updating OIE Standards

In summary:

- Texts developed using a science-based approach
- The elected Specialist Commissions, with help from experts, have the task of formulating proposals following a transparent process
- The Delegates decide whether or not to adopt the proposed texts (Democratic system)
TERRESTRIAL ANIMAL HEALTH CODE

Relevant part for honey bees
Aim: to assure the sanitary safety of international trade in terrestrial animals and their products, while avoiding unjustified sanitary barriers.

It is also an essential tool for supporting the mandate of the OIE in the area of improving animal health and welfare worldwide.

Achieved through the detailing of health measures to be used by the veterinary authorities.
Terrestrial Animal Health Code, 2017

Chapters relevant for the honey bees in the Terrestrial Code:

- Chapter 4.14., Official health control of bee diseases
- Chapter 5.10., Model Veterinary Certificates for International Trade
- Chapters 9.1. to 9.6. covering the six honey bee diseases included in the OIE List
Terrestrial Animal Health Code, 2017

Chapters relevant for the honey bees in the *Terrestrial Code*:

- Chapter 4.14., Official health control of bee diseases
- Chapter 5.10., Model Veterinary Certificates for International Trade
- Chapters 9.1. to 9.6. covering the six honey bee diseases included in the OIE List
Chapter 4.14. Official health control of bee diseases

In each country or region, official health control of bee diseases should include:

1. Official registration of the apiaries by the Veterinary Authority or other Competent Authority in the whole country or region
Chapter 4.14. Official health control of bee diseases

In each country or region, official health control of bee diseases should include:

1. Official registration of the apiaries by the Veterinary Authority or other Competent Authority in the whole country or region

2. An organisation for permanent health surveillance
Chapter 4.14. Official health control of bee diseases

In each country or region, official health control of bee diseases should include:

1. Official registration of the apiaries by the Veterinary Authority or other Competent Authority in the whole country or region
2. An organisation for permanent health surveillance
3. Approval of breeding apiaries for export trade
Chapter 4.14. Official health control of bee diseases

In each country or region, official health control of bee diseases should include:

1. Official registration of the apiaries by the Veterinary Authority or other Competent Authority in the whole country or region
2. An organisation for permanent health surveillance
3. Approval of breeding apiaries for export trade
4. Measures for cleaning, disinfection and disinfectation of apicultural equipment
Chapter 4.14. Official health control of bee diseases

In each country or region, official health control of bee diseases should include:

1. Official registration of the apiaries by the Veterinary Authority or other Competent Authority in the whole country or region
2. An organisation for permanent health surveillance
3. Approval of breeding apiaries for export trade
4. Measures for cleaning, disinfection and disinfectation of apicultural equipment
5. Rules precisely stating the requirements for issuing an international veterinary certificate
Terrestrial Animal Health Code, 2017

Chapters relevant for the honey bees in the Terrestrial Code:

- Chapter 4.14., Official health control of bee diseases
- Chapter 5.10., Model Veterinary Certificates for International Trade
- Chapters 9.1. to 9.6. covering the six honey bee diseases included in the OIE List
### Terrestrial Animal Health Code, 2017

**Article 5.10.4.** for the Model of Veterinary Certificate for International Trade in Products of Honey Bees origin (Honey, Royal Jelly, Propolis, Venom, etc.)

**COUNTRIES:**

<table>
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<tr>
<th>Field</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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<td>1.2</td>
<td>Certificate reference number:</td>
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<td>Veterinary Authority:</td>
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<td>1.4</td>
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<td>1.9</td>
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<td>1.10</td>
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<td>Date of departure:</td>
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<td>A: Airplane</td>
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<td>Ship</td>
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<td>Railway wagon</td>
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<td>1.24</td>
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<td>1.25</td>
<td>Description of commodity:</td>
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<td>Temperature of the product:</td>
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<td>Identification or container sale number:</td>
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<td>Type of packaging:</td>
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<td>Commodity intended for use:</td>
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<td>Treatment type:</td>
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<td>1.44</td>
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* Optional.

** If referenced in Part II.
| Article 5.10.5. for the Model of Veterinary Certificate for International Trade in Bees and Brood Combs |

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<th><strong>Part I: Details of consignment</strong></th>
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<td>Name:</td>
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<td>Address:</td>
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<td>2. Certificate reference number:</td>
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<td>3. Veterinary Authority:</td>
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<th><strong>Part II: Details of origin and consignment</strong></th>
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<th><strong>Part III: Details of destination</strong></th>
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<td>9. Zone or compartment of destination**:</td>
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<table>
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<th><strong>Part V: Details of commodities</strong></th>
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<td>17. Total quantity:</td>
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<td>18. Total number of packages:</td>
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<td>19. Identification of container/s:</td>
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<td>20. Commodities intended for use:</td>
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<td>Breeding</td>
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<td>21. Identification of commodities:</td>
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<tr>
<td>Category:</td>
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</tbody>
</table>

* Optional.
** If referenced in Part II.
Terrestrial Animal Health Code, 2017

Chapters relevant for the honey bees in the Terrestrial Code:

- Chapter 4.14., Official health control of bee diseases
- Chapter 5.10., Model Veterinary Certificates for International Trade ..., art. 5.10.5.
- Chapters 9.1. to 9.6. covering the six honey bee diseases included in the OIE List
Terrestrial Animal Health Code, 2017

Chapters 9.1. to 9.6. covering the six diseases listed by the OIE – Outline of their content:

- Art. 1. General Provision
- Art. 2. Safe commodities
- Art. 3. Determination of the disease status of a country or zone/compartment
- Art. 4. Country or zone/compartment free from the disease
- Art. 5-6-7-etc. Recommendations for importation of honey bees, h.b. products & equipments associated with beekeeping.
MANUAL OF DIAGNOSTIC TESTS AND VACCINES FOR TERRESTRIAL ANIMALS

Relevant part for honey bees
Terrestrial Manual, 2017

Aim:

to provide internationally agreed diagnostic laboratory methods and requirements for the production and control of vaccines and other biological products

○ Is the companion volume to the Terrestrial Animal Health Code

- Introductory chapters
- Disease-specific chapter for the six honey bees diseases listed by the OIE
- + An Introductory note on bee diseases
- + One chapter on Nosemosis of honey bees
Disease-specific chapter for the six honey bees diseases listed by the OIE – outline of their content

Developed following this template:

- Summary
- A. Introduction
- B. Diagnostic techniques
- C. Requirements for vaccines and diagnostic biologicals
- References
OTHER OIE TOOLS RELEVANT FOR BEE HEALTH
Other OIE tools

1. Expertise - The OIE Network of Reference Laboratories and Collaborating Centres
Other OIE tools

1. Expertise - The OIE Network of Reference Laboratories and Collaborating Centres
   ▪ Crucial role for OIE and its Members
   ▪ Worldwide expertise
   ▪ Supports OIE in the establishment of standards
   ▪ **267 Reference Laboratories** covering 118 diseases or topics in 38 countries, and **55 Collaborating Centres** covering 49 topics in 29 countries
Other OIE tools

1. Expertise - The OIE Network of Reference Laboratories and Collaborating Centres

Dr Marie-Pierre Chauzat
ANSES Sophia Antipolis
France
marie-pierre.chauzat@anses.fr

OIE Listed Bee Diseases
Other OIE tools

1. Expertise - The OIE Network of Reference Laboratories and Collaborating Centres

Dr Marc O. Schäfer
National Reference Laboratory for Bee Diseases (FLI)
GERMANY
marc.schaefer@fli.de

- Infestation of honey bees with *Varroa* spp. (Varroosisis)
- Infestation with *Aethina tumida* (Small hive beetle)
- American foulbrood of honey bees
Other OIE tools

1. Expertise - The OIE Network of Reference Laboratories and Collaborating Centres

Dr Adriana M. Alippi
Centro de Investigaciones en Fitopatología ARGENTINA
Email: alippi@biol.unlp.edu.ar

American Foulbrood of Honey Bees
Other OIE tools

1. Expertise - The OIE Network of Reference Laboratories and Collaborating Centres
2. Capacity Building - OIE Laboratory Twinning

Concept: Sustainable enhancement of capacity and expertise by supporting a link between an OIE Reference Laboratory or Collaborating Centre (parent) and a national laboratory (candidate) from a developing or in-transition country.
Other OIE tools

1. Expertise - The OIE Network of Reference Laboratories and Collaborating Centres
2. Capacity Building - OIE Laboratory Twinning
3. Recent publications

Protecting bees, preserving our future
OIE Bulletin, 2-2014
Thank you for your attention