African swine fever: situation and response

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Content

- Current situation: overview
- Global and regional coordination
- Emergency preparedness and response
- Capacity development
- Pig production systems and value chain
- Economic impact and market disruption
- Awareness and engagement
African swine fever: global situation

- Endemic in sub-Saharan Africa
- 2007 - introduction to Caucasus and spread in Europe
- 2018 - introduction to China and spread across Asia and Pacific
- 2020 - 5 new countries and territories
- Disease is present in countries with largest production, consumption and trade of pigs and pork products
- Unprecedented global spread and risk for introduction to new countries and continents
Global and regional coordination

- Regional strategy and collaborative framework
- Standing Groups of Experts on ASF: Europe, Asia and Americas
- Global control of ASF: a GF-TADs Initiative July 2020
- GF-TADs Working Group on ASF since July 2020
Emergency preparedness and response

Emergency Management Center (EMC-AH) is a joint platform in FAO Animal Production and Health division (NSAH), and the Office of Emergencies and Resilience (OER).

The Centre assists countries to manage animal health emergencies, protect livelihoods and save lives.

ASF Incident Coordination Group (ICG): FAO HQ, regional and country offices, and partners: OIE, IAEA, INTERPOL and Agronomes et Vétérinaires sans frontières

- Maintain situational awareness and updates on the situation
- Identify needs and provide guidance and tools for emergency response
- Assess communication needs and coordinate related activities
- Monitor the implementation (actions and the response)

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<thead>
<tr>
<th>EMC-AH African swine fever missions 2019</th>
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<tbody>
<tr>
<td><strong>Timor-Leste</strong></td>
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<td>December 2019</td>
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<td><strong>Papua New Guinea</strong></td>
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<td>October 2019</td>
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<td><strong>Cambodia</strong></td>
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<td>May 2019</td>
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<td><strong>Lao People’s Democratic Republic</strong></td>
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<td>April 2019</td>
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<td><strong>Viet Nam</strong></td>
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<td>March 2019</td>
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<td><strong>Myanmar</strong></td>
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<td>February 2019</td>
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<td><strong>Mongolia</strong></td>
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EMC-AH missions deployed only by governments’ requests
Capacity development

- Training on epidemiology, surveillance, simulation exercises
  lab diagnostics, outbreak management, risk communication
- Provision of lab equipment and reagents

- Regional workshops on detection and response at the regional, national, subnational levels - South East Asia
- Regional coordination meeting and workshop on ASF surveillance and control in West and Central Africa
- Regional ASF wild boar management workshop and national pig biosecurity trainings - Balkan countries
- Regional risk communication and outbreak management - South and Eastern Europe
- Lab training at FAO ASF Reference Centre (CISA-INIA), Spain
- Hands-on trainings for laboratory/field diagnosis South East Asia
- Value chain analysis workshop South East Asia
- Training-of-Trainers Balkan and South East Asia

Laboratory protocols and algorithms
Capacity development

Training and field support
- From 2018, 4 group trainings organized for VETLAB partners in Africa and Asia on clinical and laboratory diagnosis, disease surveillance and control, molecular characterization of ASFV.
- Expert visits to Malaysia, Indonesia and Vietnam, to assist laboratories in preparedness and emergency plans (2019) and to transfer molecular assays.
- Technical assistance for the detection and molecular characterization of ASFV in Mongolia and Indonesia (2019/2020).

Emergency support (VETLAB in collaboration with TC)
- Affected (Cambodia, Indonesia, Laos, Myanmar, Mongolia and Vietnam) and high-risk Asian countries (Malaysia, Thailand) – received support for laboratory preparedness to enable the early and rapid detection of virus (ELISA and PCR kits, small equipment).
Capacity development

Research and development support to characterize local isolates:


- In Africa, APHL supported Burkina F., Namibia, Tanzania, Cote d’Ivoire, Cameroon, Mozambique for ASFV genetic characterization and molecular epidemiology (isolates from 2017-2020).

Assay development

- Tetraplex real time PCR (ASFV, CSFV, Erysipelas and Salmonella) for rapid screening and differential diagnosis
Capacity development using FAO tools

- Global Animal Disease Information System - EMPRES-i

- National electronic reporting app - EMA-i

  ✓ Mobile App for Veterinary Authorities facilitates quality & real time data collection and reporting of animal diseases from the field to support early warning and effective early response to disease threats.
Capacity development using FAO tools

- **Surveillance Evaluation Tool (SET)**
  
  
  ✓ Comprehensive, standardized assessment of animal disease surveillance
  
  ✓ Develop country-specific plans for improvement

- **Lab Mapping Tool**
  
  
  ✓ Standardized metric to assess laboratory capacity and infrastructure
  
  ✓ Identifies gaps - opportunities for funding
Capacity development

Online ASF Preparedness course
- 4-week tutored course
- Webinars, discussion forum, final test
- Certification process

In 2020 participant from
- Europe 36 countries;
- Europe, Balkan 8 countries
- Asia and the Pacific 27 countries
- Latin America 38 countries.

- 986 participants completed full course
- Course in Russian language in 2021

MODULES
1. Introduction to ASF
2. Clinical diagnosis
3. Sampling and Laboratory Diagnosis
4. Outbreak Investigation
5. Response and Control Measures
6. Prevention and Biosecurity
7. ASF in wild boar

Mobile App for the reporting of wild boar carcasses (iMammalia)
Pig production systems and value chains

- Pig production systems and value chain mapping

Market Profiling Application (MPA) important progression from real-time-reporting to decision making

https://sites.google.com/view/avcma-toolset/mobility-patterns/border-control#h.7qkh7iifelyy

- Systematic collection of reliable geographic data from the field (e.g. disease events, markets, farms, slaughterhouses)

- Dissemination of geographic data to support practical collaborative decision making (e.g. risk maps, early warning, early response)
Pig production systems and value chains

Progressive Management Pathway (PMP) for biosecurity improvement in pig production - in the development

• engage public and private stakeholders in pig production in the governance and implementation of a National Biosecurity Action Plan.

• improve awareness and engagement of farmers and other pig/pork value chains stakeholders on role of biosecurity in sustainable animal health management

• promote the implementation of biosecurity measures in different pig production systems.

• develop capacity for monitoring the level of implementation and impact of biosecurity measures in different pig production systems.
Economic impact and market disruption analysis
AFRICAN SWINE FEVER: SITUATION AND RESPONSE

Awareness and engagement

- **Awareness and knowledge products:**
  - awareness raising
  - better understanding of risks and drivers
  - providing guidelines
  - sharing best practices

- **Risk communication publication**

- **Risk communication training course**
  A risk communication training course in modules will be developed for virtual training for South East Asian countries

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Cooperation and coordination between FAO and OIE on ASF communication on regular basis
Awareness and engagement

*Manuals and technical papers* in different languages
Awareness and engagement

- Farm biosecurity video - basic biosecurity for smallholder farmers available in English, Lao, Khmer version and ongoing work for Vietnamese, Burmese, Tagalog (3 dialect for the PHP) and Bahasa.
- Farm biosecurity poster using messages from the video
- Fully editable leaflets in multiple languages (online repository)
- Set of 7 short videos for standard operations of field vets and hunters (sampling, clinical examination, biosecurity, etc) will be available soon

Be a Champion Farmer! – Biosecurity is key to stop African Swine Fever

https://www.youtube.com/watch?v=XdKRY1Hf9hA&feature=youtu.be
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