



PROMOTING
KNOWLEDGE MANAGEMENT CULTURE

AFRICAN SWINE FEVER OUTBREAK IN PIGS

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Wednesday
3rd June, 2026



from 14:00 PM
to 15:00 PM



zoom

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FRAMEWORK

- **Piggery Units in Uganda**
- **Disease Overview**
- **Epidemiology and Transmission Pathways**
- **Clinical Presentation and Diagnosis**
- **Prevention, Control and Biosecurity Measures**
- **Current Gaps and Implementation Challenges**
- **NARO Research Contributions and Strategic Interventions**
- **Recommendations and Way Forward**

Piggery units in Uganda



Breeds

Landrace – good for bacon production

Large White – fast grower with high meat yield

Camborough –
Crossbreed that possesses high reproductive efficiency

Duroc – disease-resistant, hardy



Disease Overview

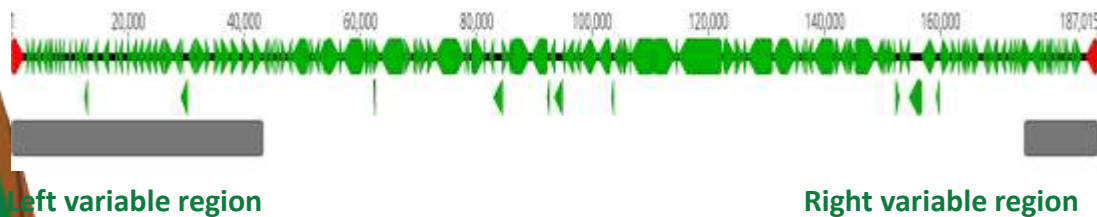
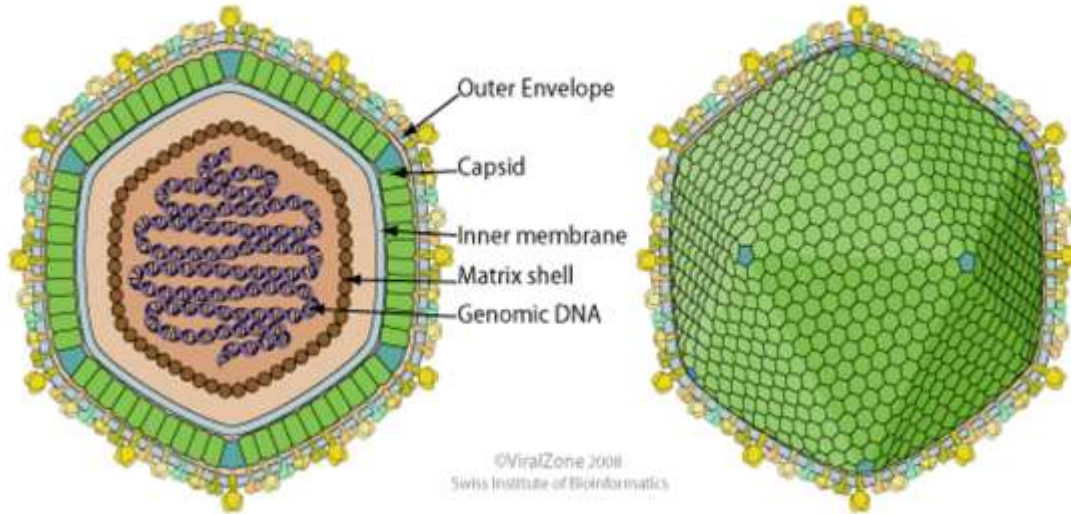
Deadly viral disease

Highly contagious, NO VACCINE

ASF outbreaks cluster in some border districts

Occur all year-round or sporadically

Peak in districts with high (>30,000) pig numbers



Disease Overview

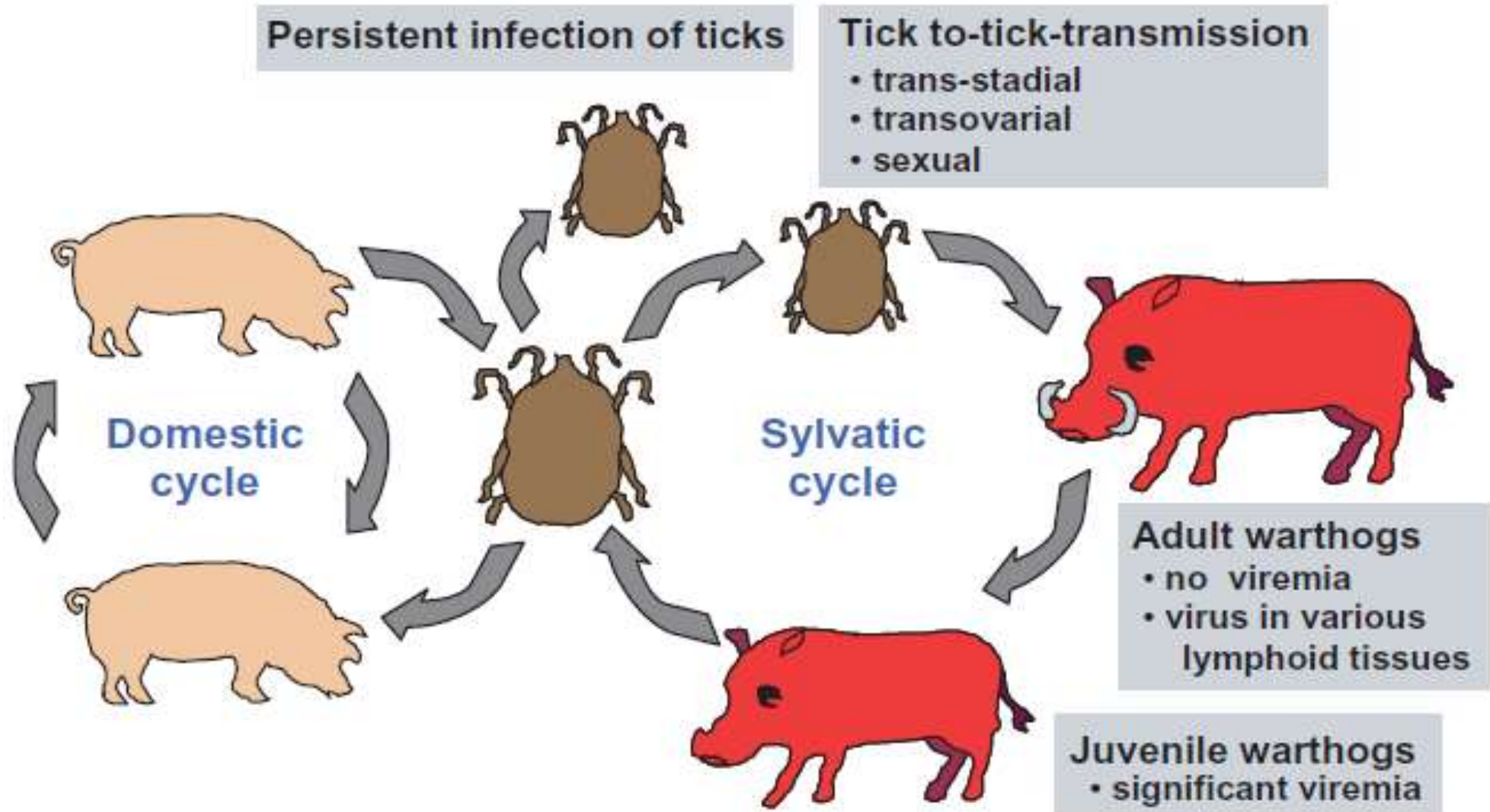


High Fatality = 100%

Seasonality in Uganda: during the dry seasons or at the onset of rains

Spread: rapidly through contact with infected pig fluids

Epidemiology and Transmission Pathways



Epidemiology and Transmission Pathways



Epidemiology and Transmission Pathways



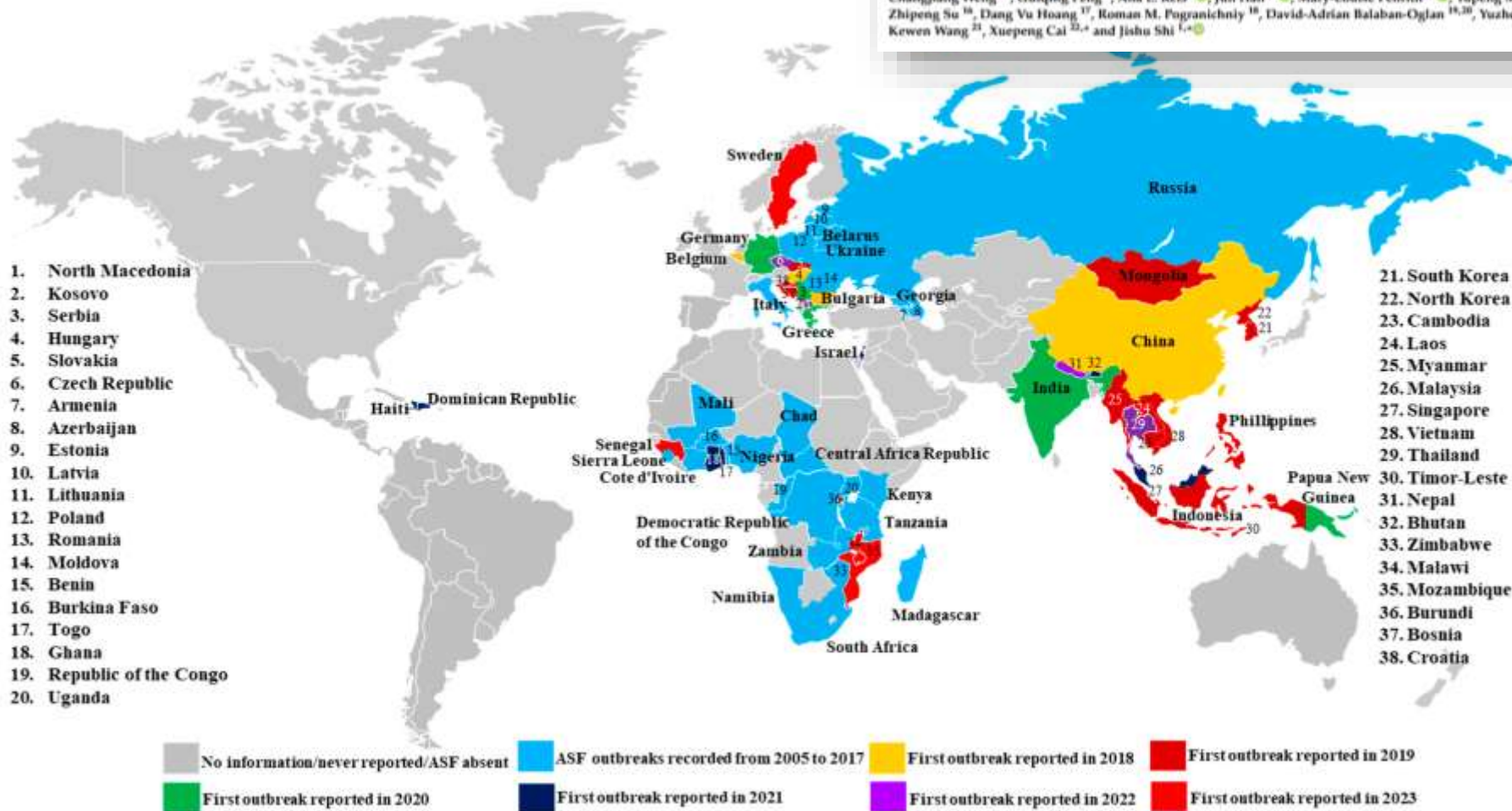
viruses



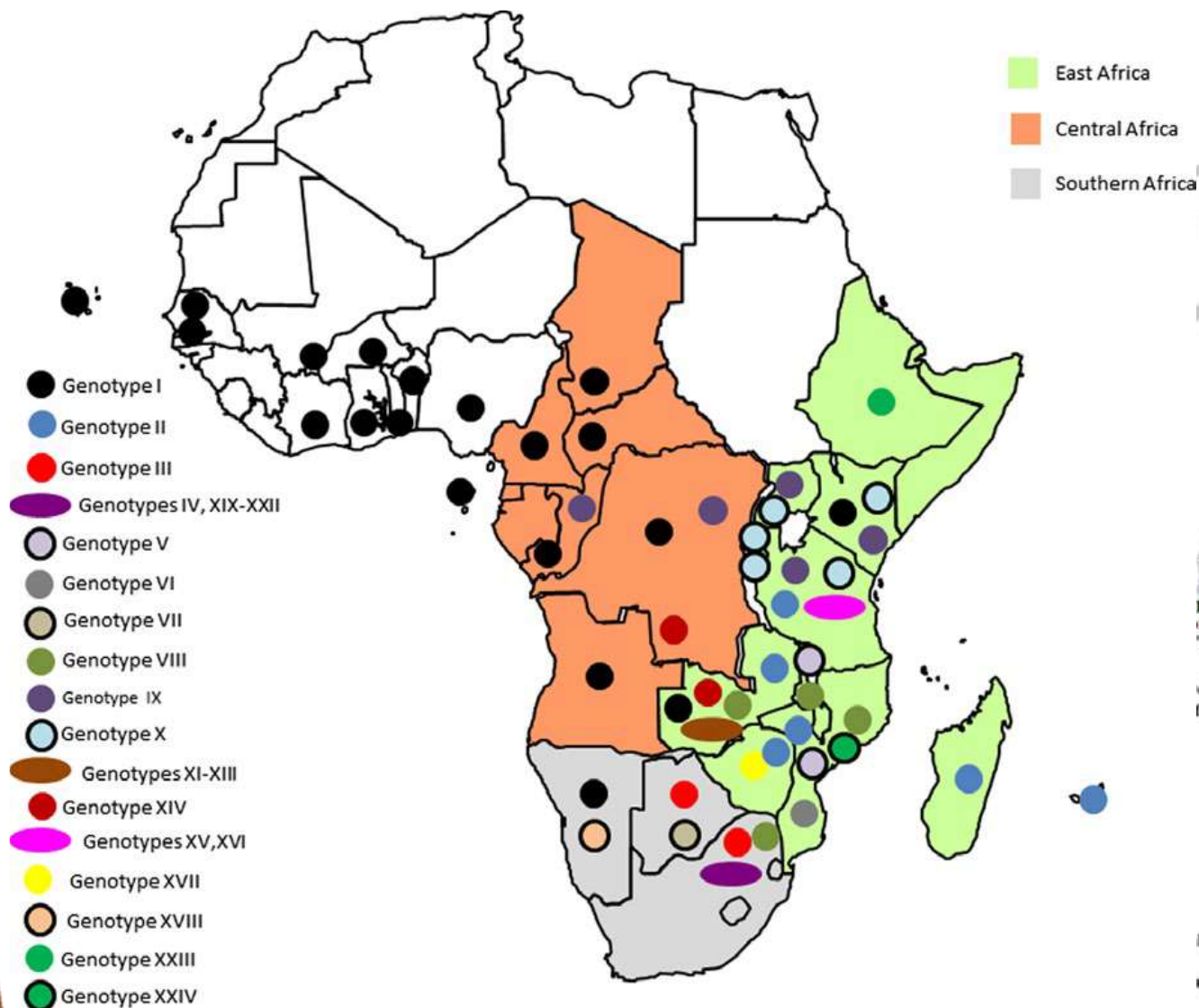
Conference Report

2023 International African Swine Fever Workshop: Critical Issues That Need to Be Addressed for ASF Control

Libua Wang ¹, Lillianne Ganges ^{2,3}, Linda K. Dixon ⁴, Zhigao Hu ⁵, Dongming Zhao ⁶, Quang Lam Truong ⁴, Juergen A. Richt ⁷, Meilin Jin ⁸, Christopher L. Netherton ⁹, Charaf Benarafa ^{9,10,11}, Artur Summerfield ^{9,10,11}, Changjiang Weng ¹², Guiling Peng ⁸, Ana L. Reis ⁴, Jun Han ¹³, Mary-Louise Penrith ¹⁴, Yupeng Mo ¹⁵, Zhipeng Su ¹⁶, Dang Vu Hoang ¹⁷, Roman M. Pogranichny ¹⁸, David-Adrian Balaban-Oglan ^{19,20}, Yuzhen Li ¹, Kewen Wang ²¹, Xuepeng Cai ²² and Jishu Shi ^{1,4}



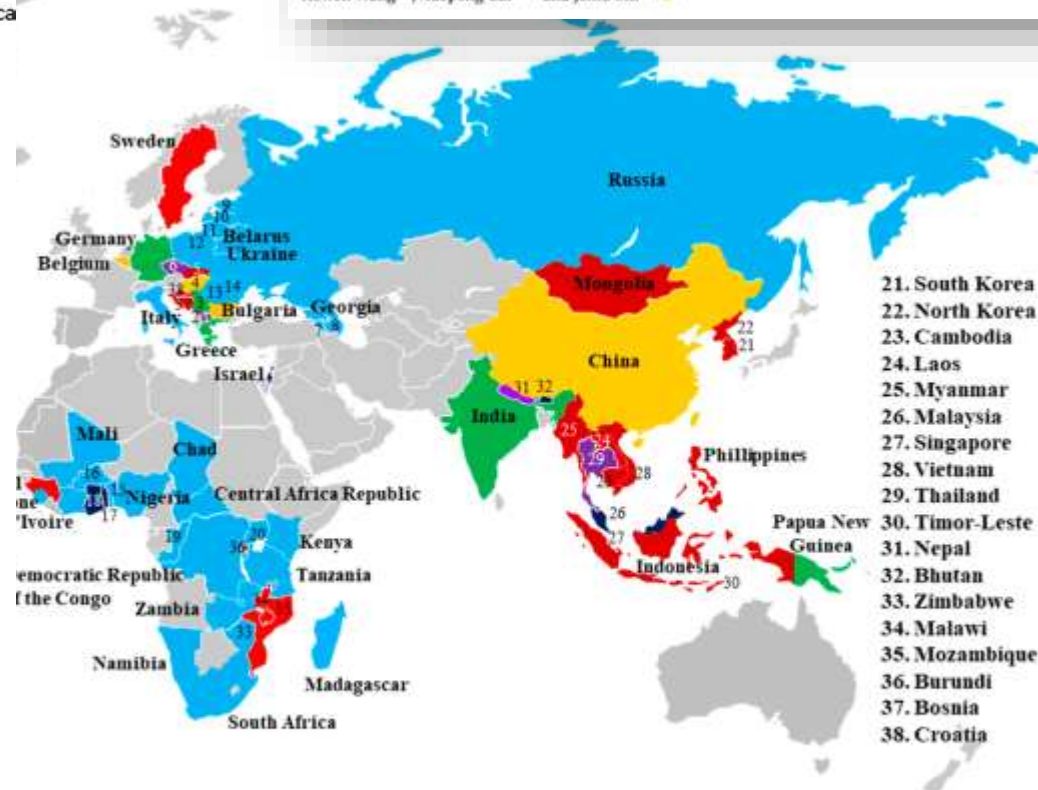
Epidemiology and Transmission Pathways



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Recorded from 2005 to 2017 (Blue) First outbreak reported in 2018 (Yellow) First outbreak reported in 2019 (Red)
First outbreak reported in 2021 (Light Blue) First outbreak reported in 2022 (Purple) First outbreak reported in 2023 (Dark Red)

Clinical Presentation and Diagnosis



sudden high fever

red or blue skin discoloration (on ears and snout)

loss of appetite

Laboured or rapid breathing

huddling

coughing

discharge from the eyes and nose

bloody diarrhoea or vomiting

rapid death within 2 to 7 days

Clinical Presentation and Diagnosis





Prevention, Control and Biosecurity Measures

Quarantine & Movement Restrictions

Strict On-Farm Biosecurity

- **construct physical barriers to limit human access to pigsties**
- **restrict the sharing of breeding boars between farms**
- **enforce footbaths at entrances**



Prevention, Control and Biosecurity Measures

Safe Waste Disposal

- **farmers must avoid feeding pigs untreated swill or scraps**
- **safely burn or deeply bury carcasses to prevent indirect transmission**



Sanitation

- **regular cleaning and use of appropriate disinfectants**
- **e.g. 2% sodium hydroxide or calcium hypochlorite, Biosafe, Virikill, Everkill.**





Current Gaps and Implementation Challenges

Many rural setups rely on **free-range farming, which mixes animals and heightens contamination risks**

Quarantines are placed, farmers frequently resort to "panic sales**" and **informal slaughtering** to avoid financial ruin, inadvertently spreading the virus further**

Others

Poor farming practices, other diseases, high costs of feeds, varying market access

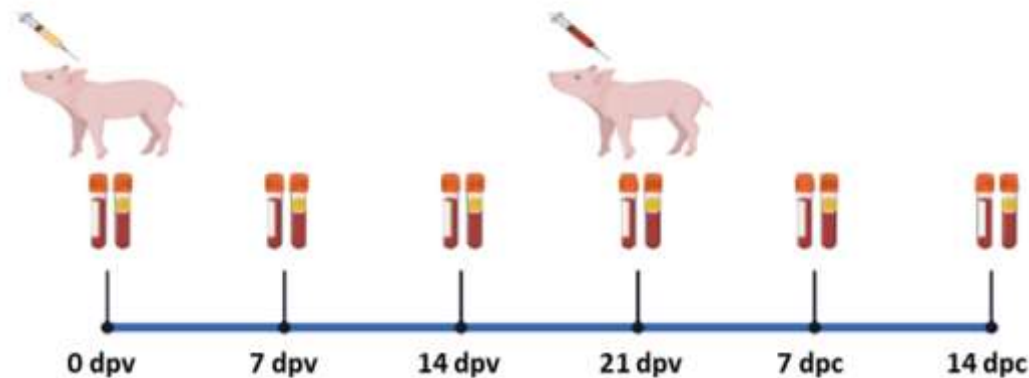


NARO Research Contributions and Strategic Interventions

ASF VACCINE RESEARCH



VACCINATION/CHALLENGE SCHEME





NARO Research Contributions and Strategic Interventions

ASF DIAGNOSTIC KIT

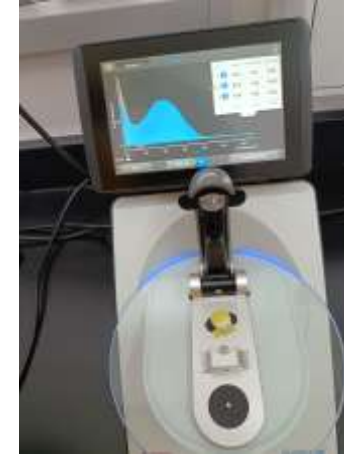






Recommendations and Way Forward

FINISH VACCINE WORK



Recommendations and Way Forward

Disseminate ASF disease control programs on mass media





Acknowledgement

Our listeners

