



African Swine Fever in Singapore: Prevention and Control

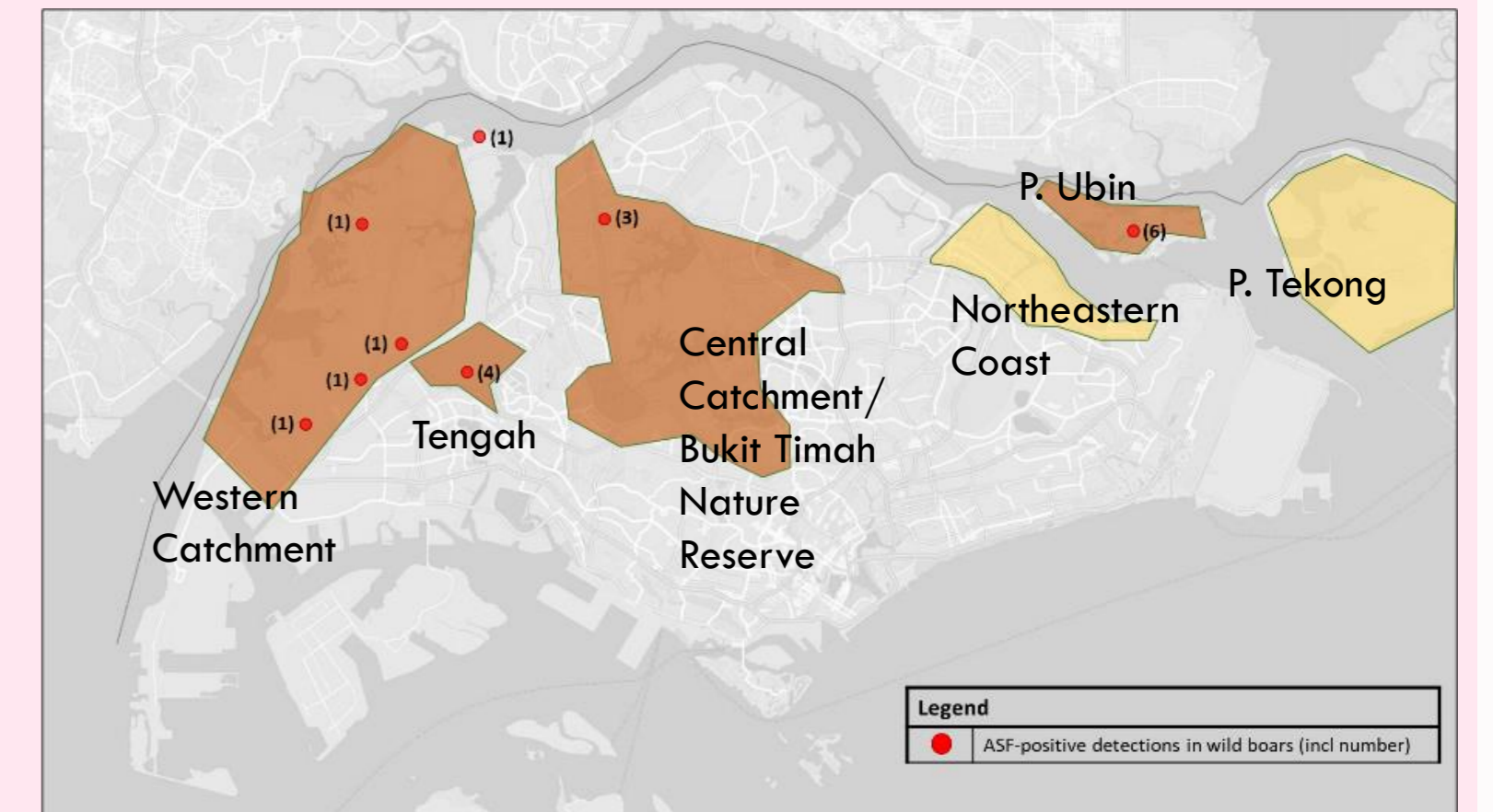
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ASF SITUATION

Wild Boars

- Wild boars (*Sus scrofa*) are found on both mainland Singapore (north and central) and offshore islands in the north
- First detection of African Swine Fever (ASF) in February 2023
- Detected by syndromic surveillance as part of biosurveillance, where an increase in mortality was observed in wild boar in the nature reserves
- Molecular methods (qPCR and sequencing) used to confirm 18 cases over 3 weeks
- No further cases have since been reported



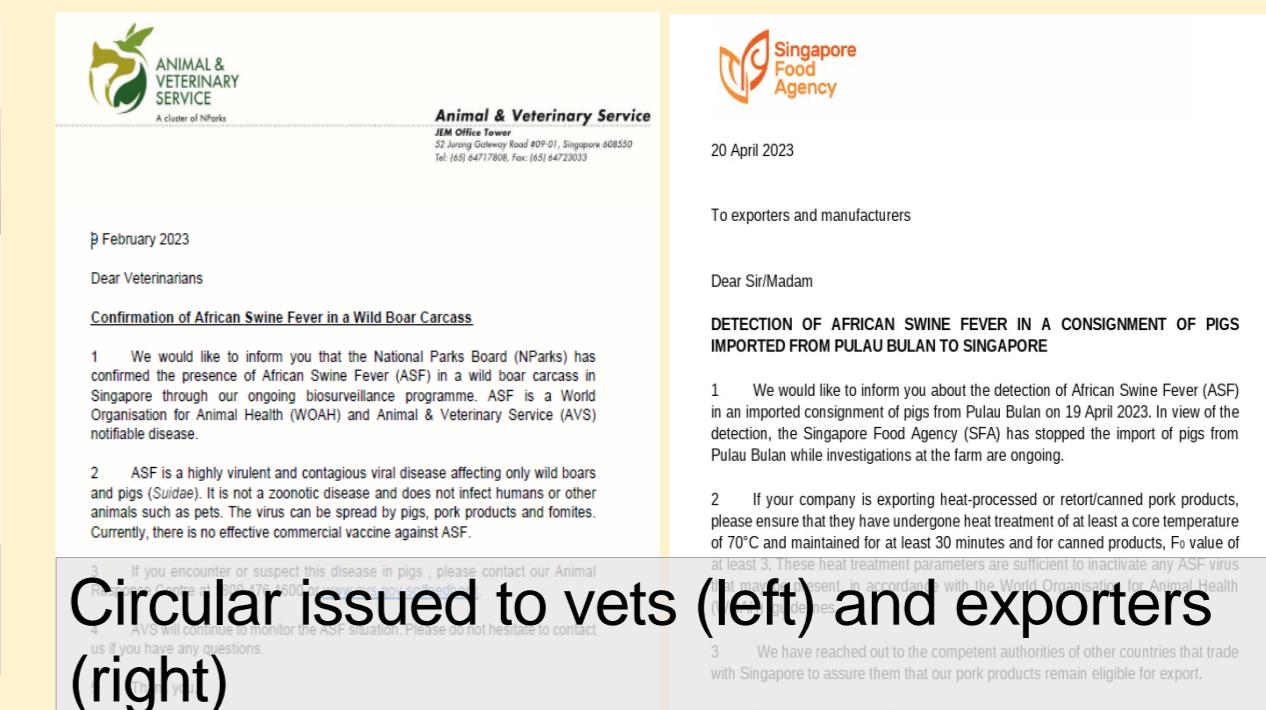
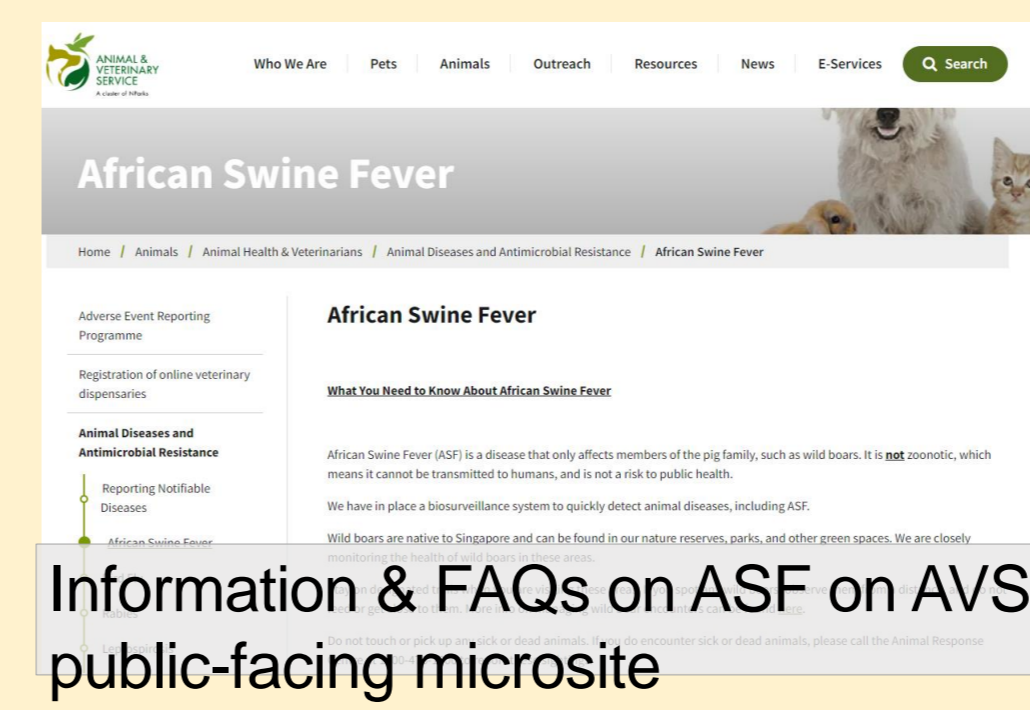
Imported Pigs

- Second ASF detection in April 2023 in imported pigs for slaughter and consumption
- Molecular methods (qPCR and sequencing) confirmed ASFV in several imported pigs
- All pigs from affected batch were slaughtered and further imports from the affected overseas farm were stopped
- The slaughterhouse and lairage were cleaned and disinfected before resuming operations



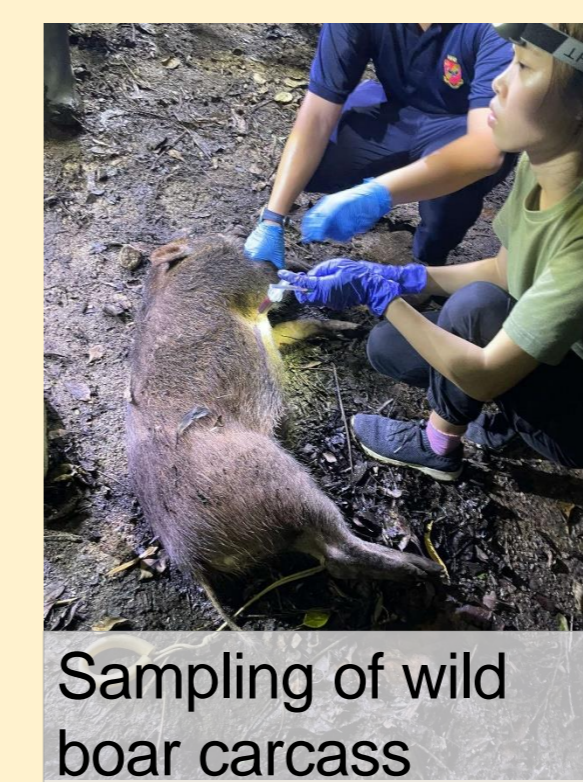
Risk communication strategies

- Public information on website with general information & FAQs on ASF
- Media release with information on detection of ASF
- Circulars issued to key stakeholders to communicate specific risks by AVS and SFA
- Briefing to nature reserve officers on clinical presentation of ASF and workflow for managing live wild boars & carcasses
- Scientific publication on ASFV sequencing results



Monitoring & Evaluation

- Ongoing syndromic surveillance and testing in wild boars, imported pigs and other susceptible local populations
- Ongoing horizon scanning of disease situation in the region
- Advanced genomics laboratory diagnostic testing capabilities
- Regular audit of overseas farm and veterinary counterparts and checks on farm biosecurity
- Licensing and working with local zoological collection to enhance biosurveillance and biosecurity



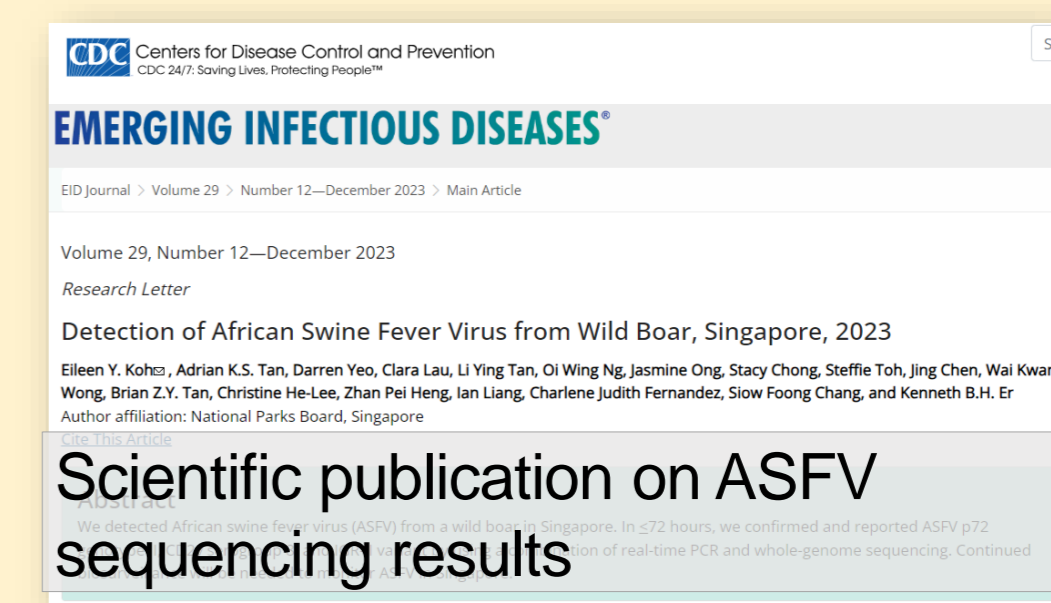
Sampling of wild boar carcass



Inspection of pigs at overseas farm



Inspection of pigs on arrival in Singapore



Scientific publication on ASFV sequencing results



Inspection of imported live pigs on vessel (left) and at abattoir (right)

ASF PREVENTION & CONTROL MEASURES

CONSTRAINTS & SOLUTIONS

- No domestic pig production or bush meat industry in Singapore
- Pigs and pork products are only allowed to be imported from ASF free sources.
- Lessons learned from 2023 outbreak
 - Gained experience in detecting, responding and managing local outbreak
 - Wealth of knowledge learned about disease in local context (e.g. epidemiological information, disease presentation and spread)
 - Enhanced relations with various stakeholders through risk communication.
 - Explore new sampling modalities (environmental DNA e.g. soil, ticks, air) and the use of advanced laboratory genomics and analytics capabilities to enhance biosurveillance and disease detection
 - ASF transmission dynamics using modelling and simulations
- Continued biosurveillance for ASFV in swine in Singapore

