

Introduction to African swine fever

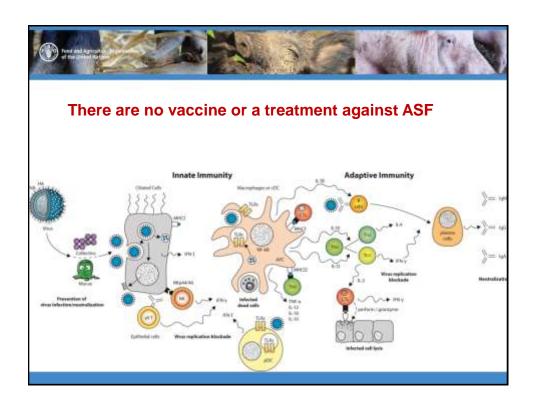
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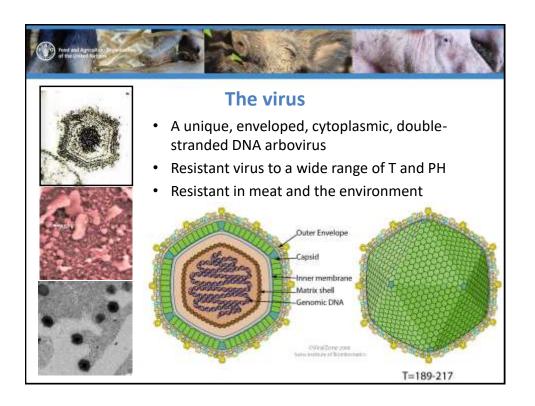


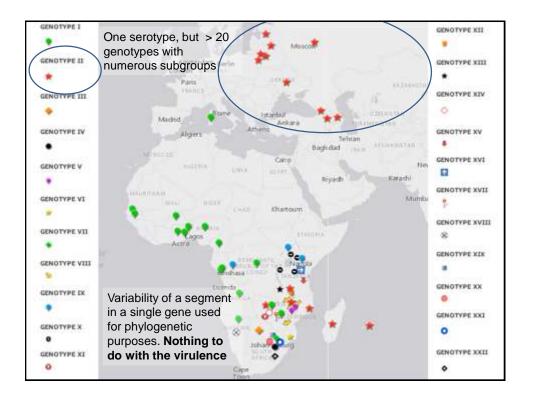
Key features

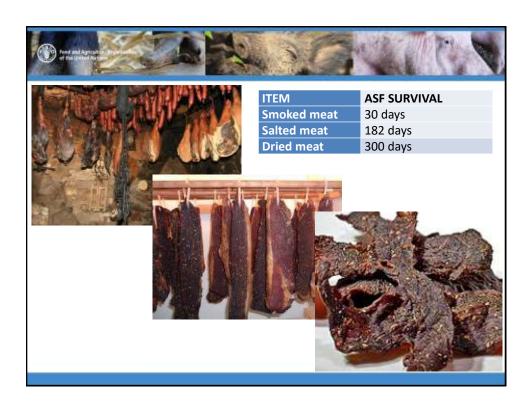
- High lethality
- Huge losses (livelihoods, production, trade)
- Very difficult to control once established
- Spreads through infected meat

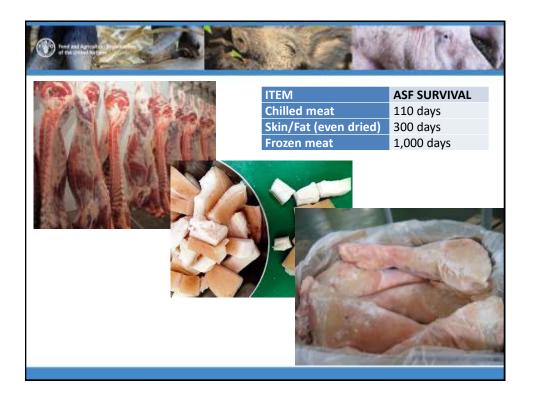










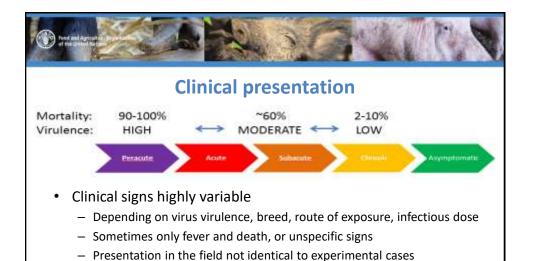












Within-herd spread may vary greatly









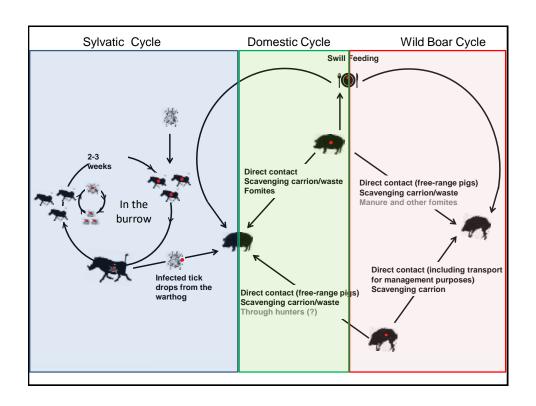




How do pigs **NOT** get infected?

- Aerosol
- Water, i.e. lakes or rivers
- Mechanical vectors (?)

IT IS ALL ABOUT HUMAN BEHAVIOUR!





The importance of pig and pork value chains

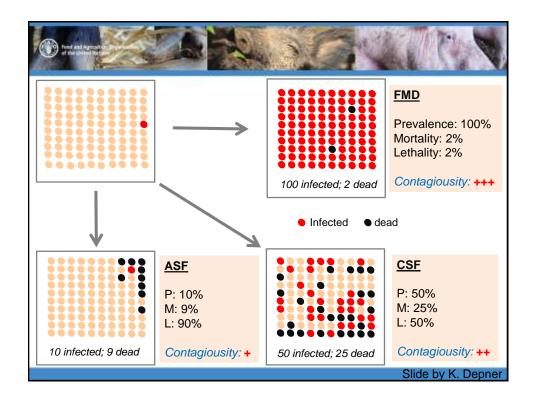
- High within-country variability
- High seasonality
- Highly dynamic in response to the markets, e.g. an ASF epidemic
- Many unknowns

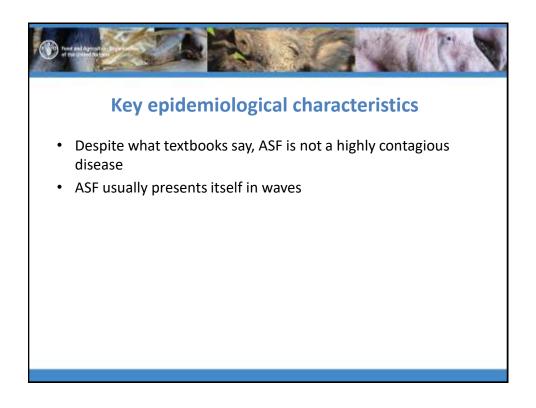
BUT UNDERSTANDING THEM WELL IS KEY FOR PREVENTION

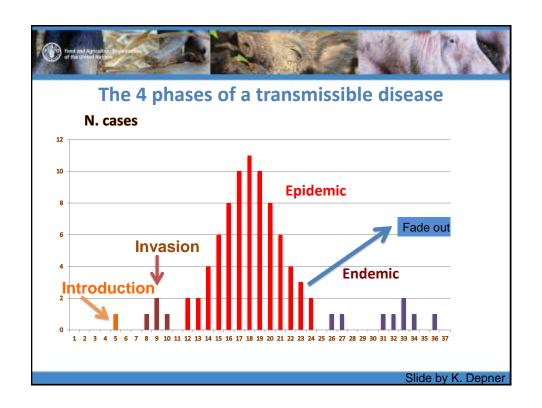


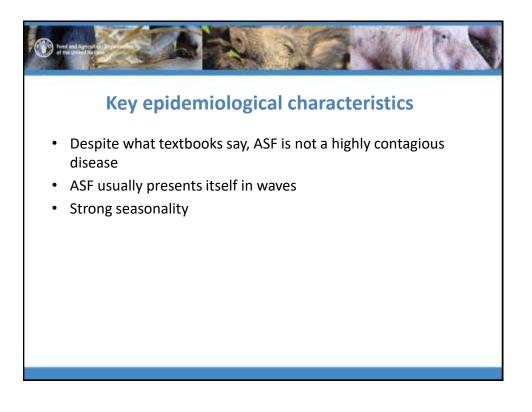
Key epidemiological characteristics

 Despite what textbooks say, ASF is not a highly contagious disease – BUT it is highly lethal

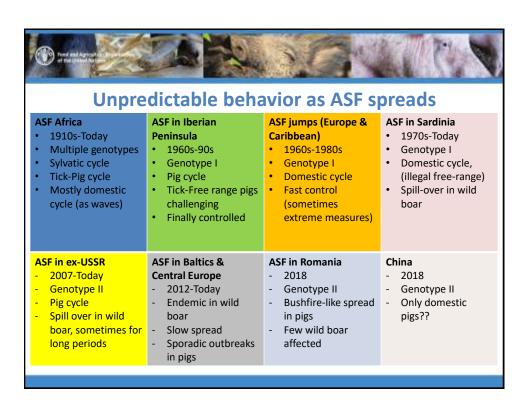


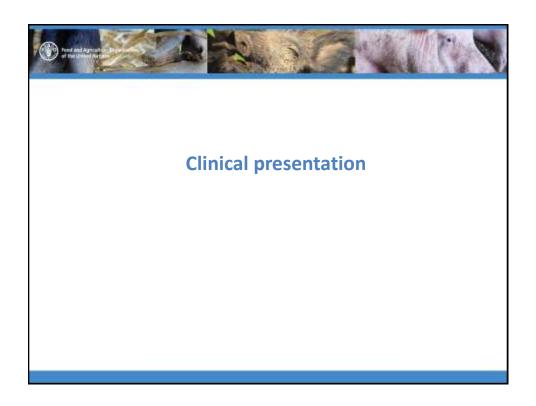


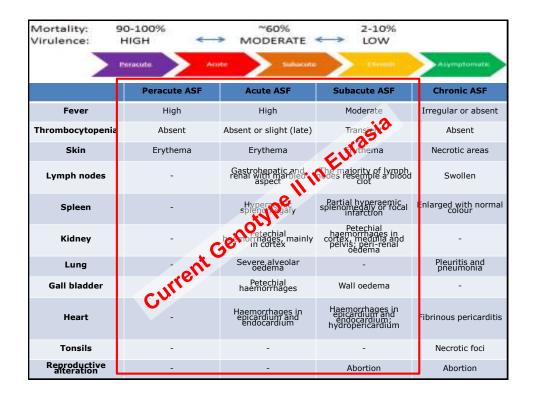














Clinical signs

- Generally characterized by the sudden death of pigs
- · All ages and both genders may be affected
- Wild boar shows the same clinical signs



Peracute

- high fever (41-42 $^{\circ}\text{C})$
- loss of appetite and inactivity
- Sudden death within 1-3 days before any clinical sign.
- Often, no apparent clinical signs nor lesions in organs



Acute (1)

- After 4-7 days incubation period (seldom, up to 14 days)
- Fever of 40-42 °C
- Lack of appetite
- Increased respiratory rate.
- Death within 6-9 days for highly virulent strains, or 11-15 days for moderately virulent isolates.
- Lethality up to 90-100 %
- Ocular and nasal discharge;
- Sleepy and weak, lie down and huddle
- Carcasses in good body condition





Acute (2)

- Infected pigs may show one or several of the following signs:
 - constipation or diarrhoea, which may progress to bloody
 - vomiting
 - abortion at all stages of pregnancy;
 - haemorrhagic lesions, reddening, cyanosis...





















Acute form in wild boar – Clinical signs

- Same signs in wild boar and feral pigs.
- Colour changes and haemorrhages in the skin easily missed in due to darker skin and thick hair.
- The same applies to dark-skinned pig breeds.









