

BIOSECURITY FOR LIVESTOCK FARMS IN SOUTH AFRICA

IAIAasa Freestate and Northern Cape

6 March 2026

Dr Marike Badenhorst

Platkop Dierekliniek/ Botshabelo CVC

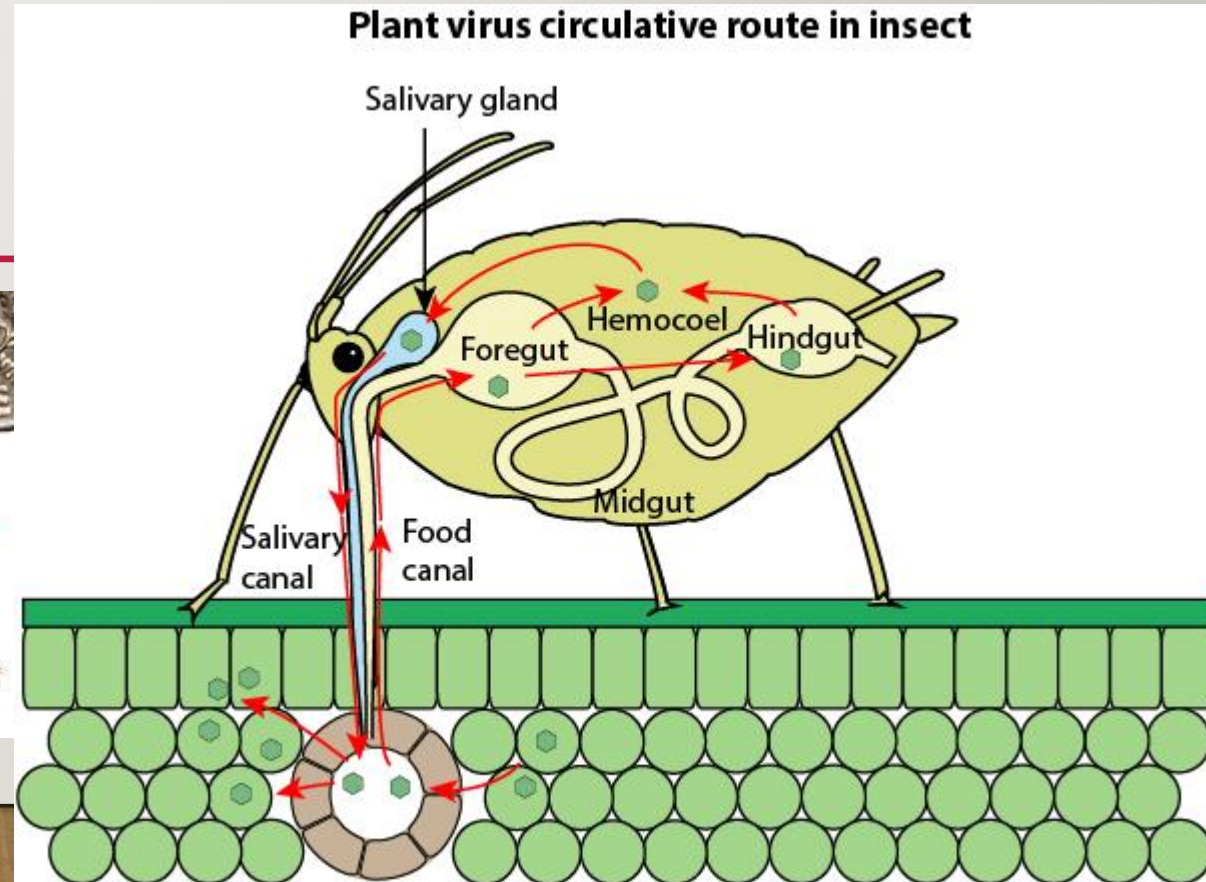
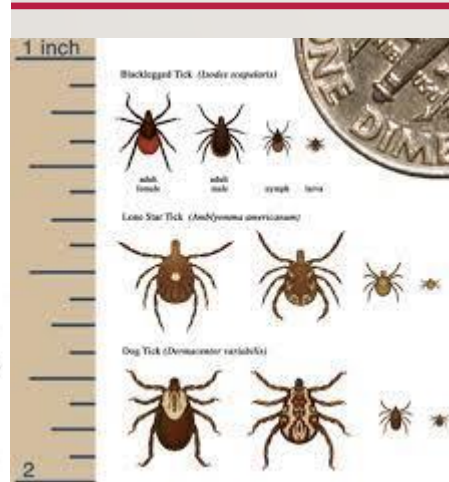
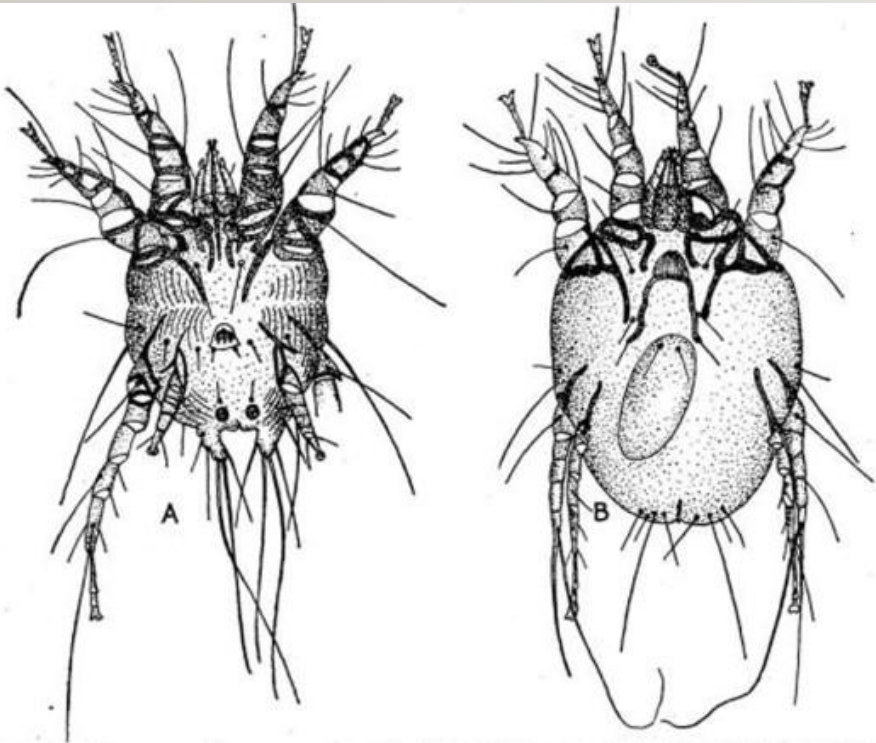
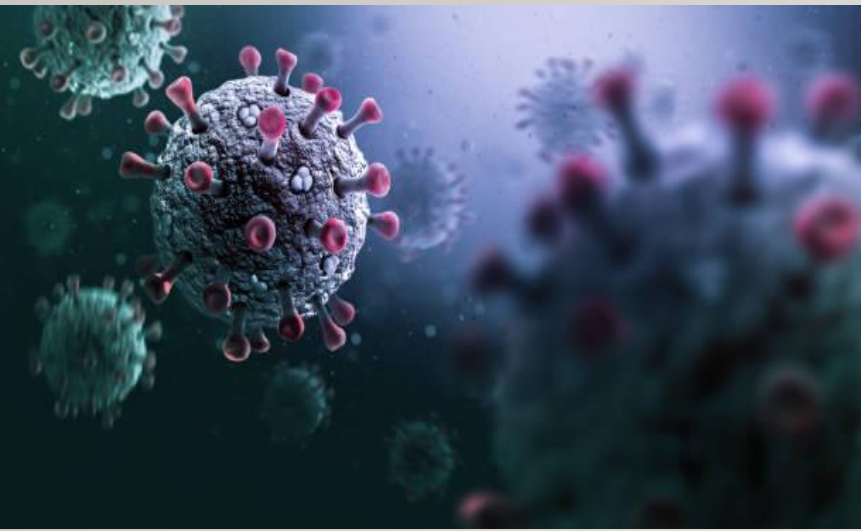
0833563294

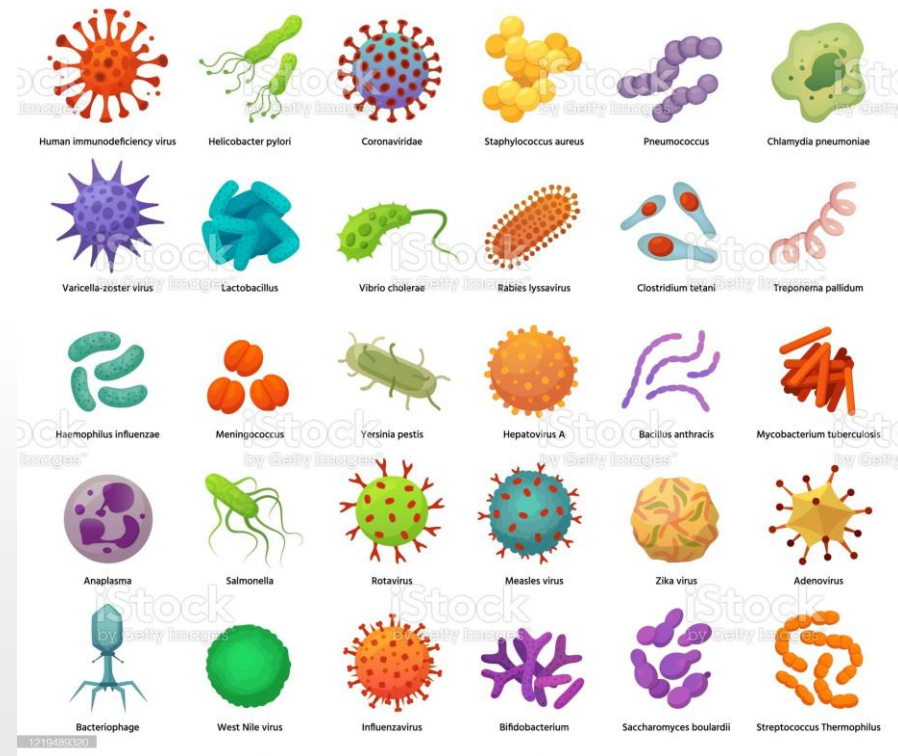
**WITH SPECIAL REFERENCE TO
FOOT-AND-MOUTH DISEASE.**



BIOSECURITY

BIO = the study of living things...







SOUTH AFRICA



KOSI BAY
BORDER CONTROL



SECURITY



BIOSECURITY

- DEFINITION : all procedures used to prevent the introduction and spread of disease Simple Biosecurity Model
- OBJECTIVES :
 - prevent the entry of disease
 - control the spread of disease

SECURITY = PROTECTION

PLAN AND DO BEFORE DISASTER STRIKES



BIO SECURITY = PREVENTION

PREVENTION = OF ENTERING = SECURITY like burglar security/ = safety

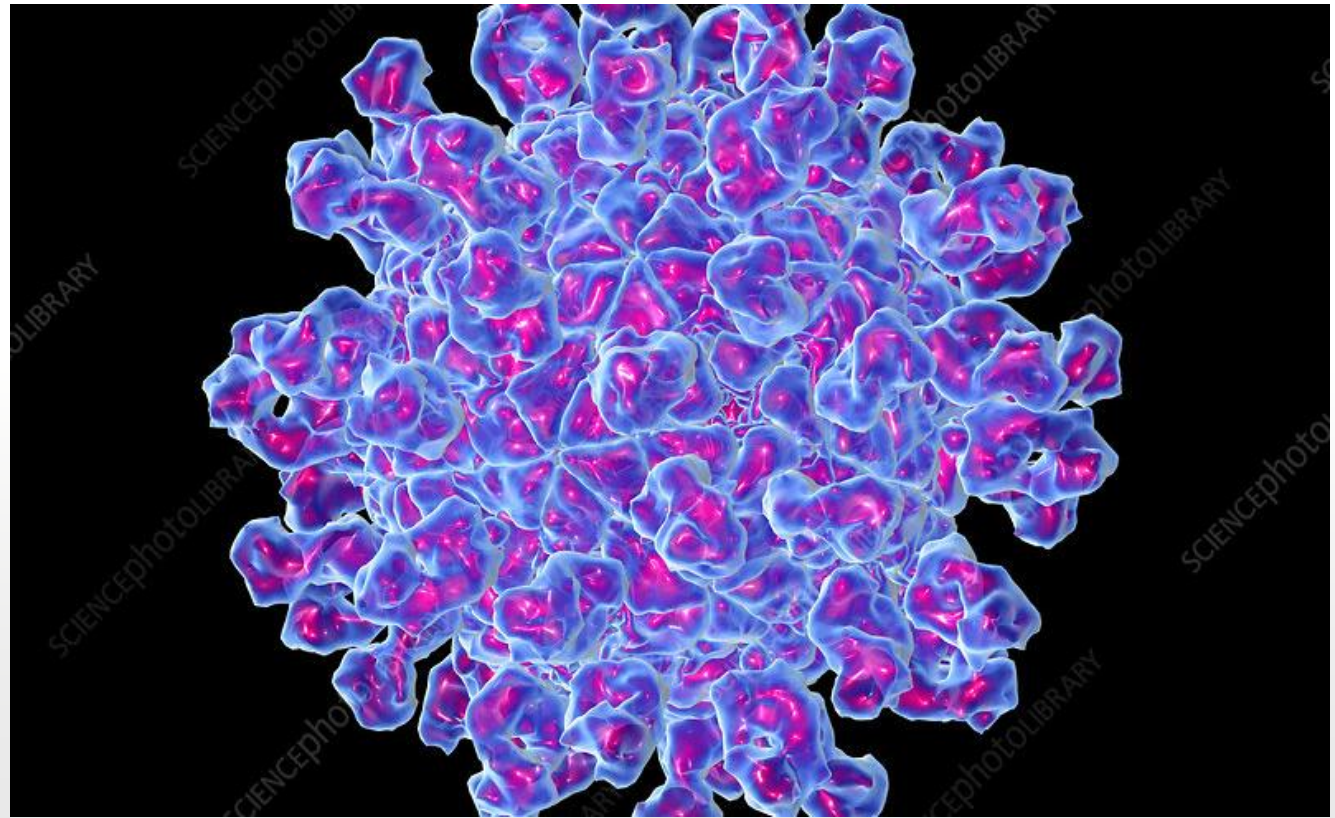
A dangerous LIVING organism (virus, bacteria, external/internal parasites of entering/spreading)

procedures or measures designed to protect the population against harmful biological live things or biochemical substances

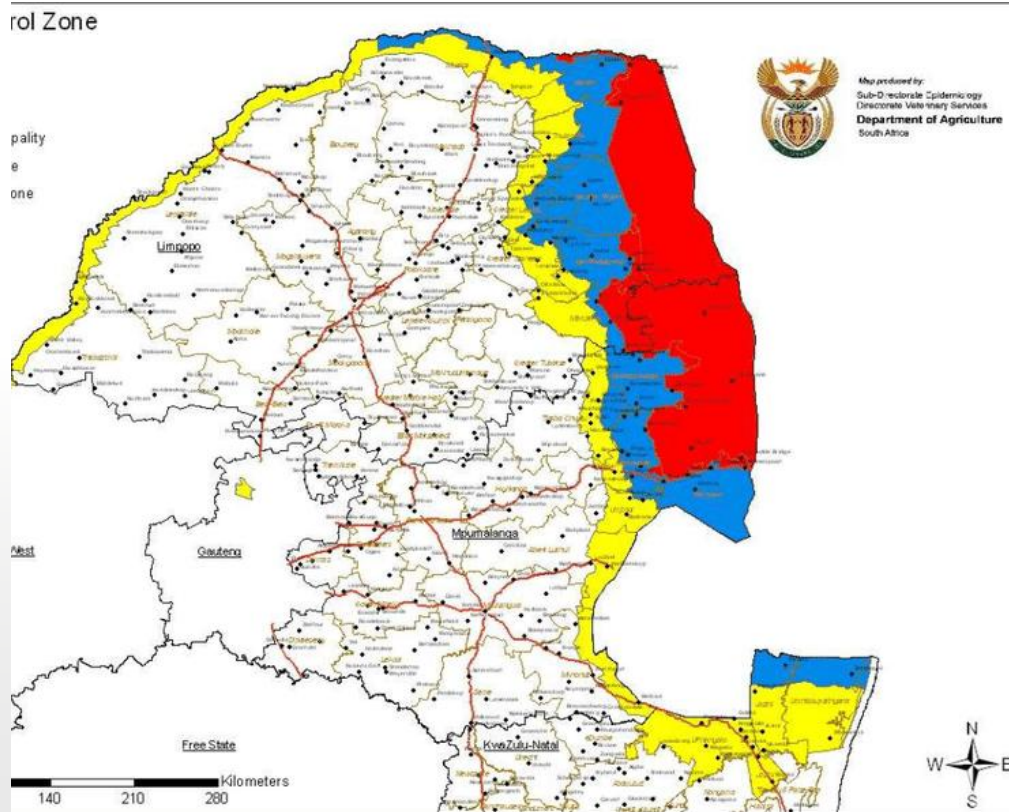




WHAT IS
THE FUSS
ABOUT???

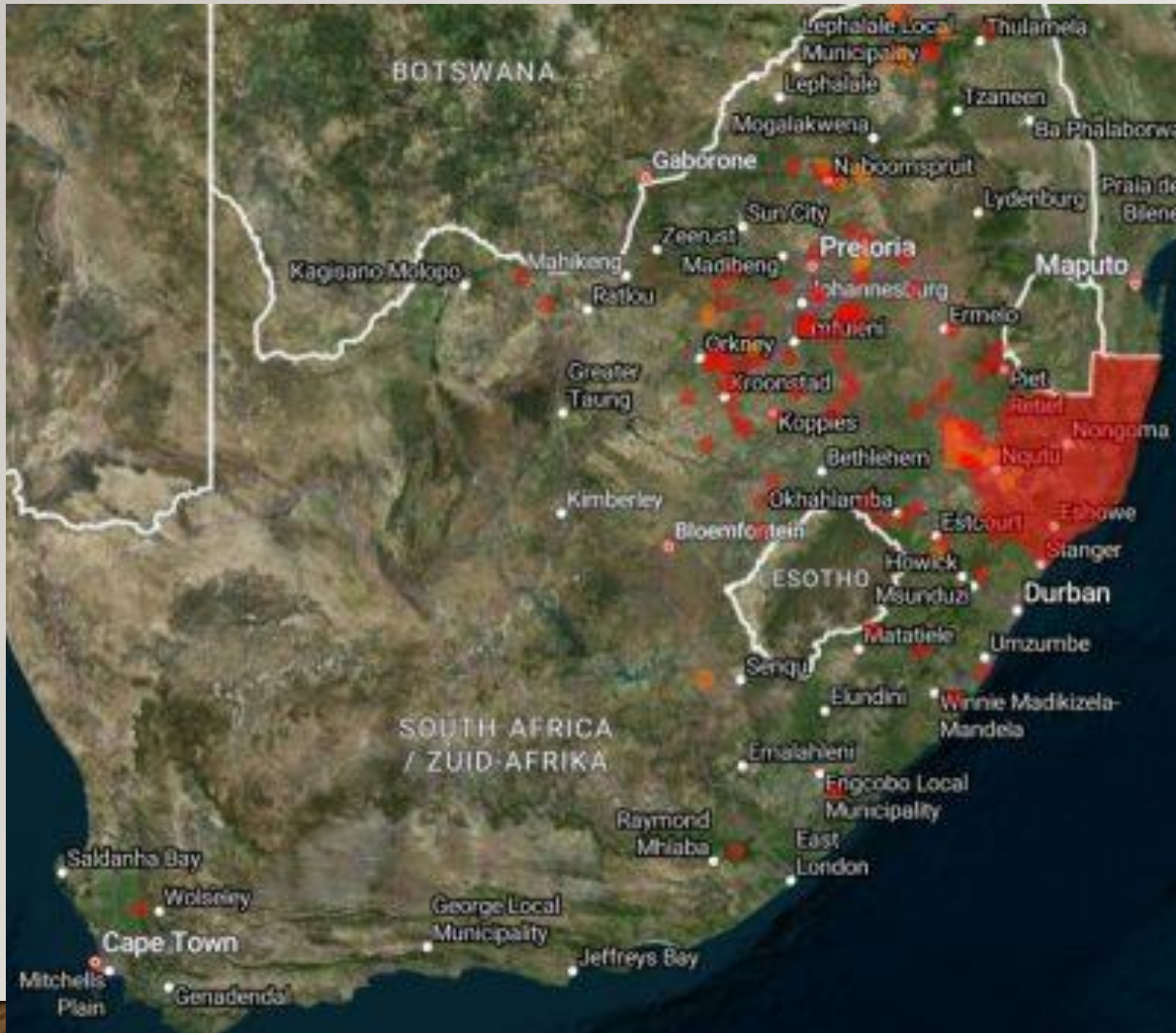


BACKGROUND

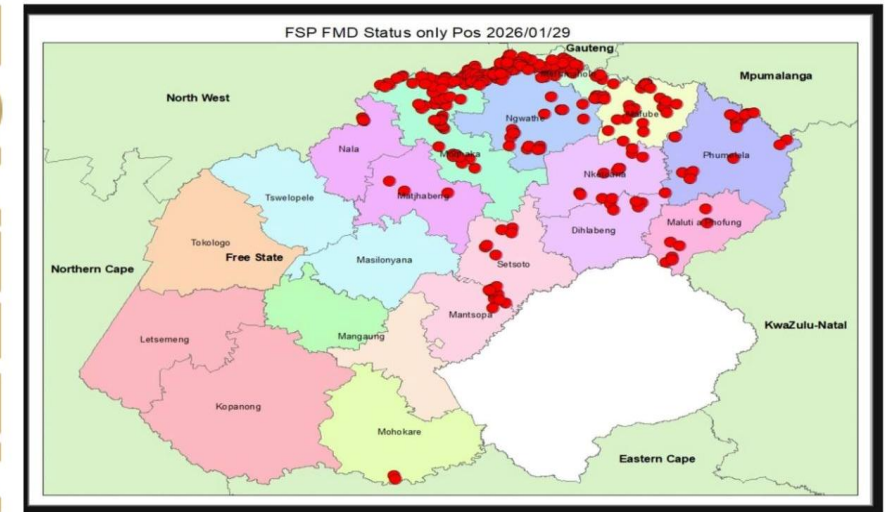


- Controlled zone
- Fences
- Vaccination
- Monitoring
- Buffalo
- Pigs and Impala
- Virus

Current state of outbreak



MEDIA RELEASE



For further media enquiries, please contact:

Ms. Moliehi Moeng
Director: Strategic Communications
& Information Services
073 260 5173

For Veterinary Services enquiries:

Dr. Jurgens Barnard
Acting Director: Veterinary Services
Tel no.: 066 025 2229
Email: jbfsvet@gmail.com

Issued by the DARD: Strategic Communications and Information Services

-END-

Controlled Animal Diseases (in terms of the Animal Diseases Act, 1984 (Act 35 of 1984))

· Any animal disease or infectious agent that is not known to occur in South Africa

· **African horse sickness (AHS)**

· **African swine fever (ASF)**

· **Anthrax**

· Aujeszky's disease

· Bacterial kidney disease (in fish)

· Bovine contagious pleuropneumonia (CBPP)

· Bovine spongiform encephalopathy (BSE)

· **Brucellosis (in all animal species)**

· **Classical swine fever (CSF)**

· Contagious equine metritis (CEM)

· Contagious haemopoietic necrosis (in fish)

· Contagious pancreatic necrosis (in fish)

· Corridor or Buffalo disease (Theileriosis)

· Dourine

· East coast fever

Equine infectious anaemia (EIA)

· Equine influenza (EI)

· **Foot and mouth disease (FMD)**

· Glanders

· Haemorrhagic septicaemia (in fish)

· Johne's disease (in sheep, cattle and goats)

· Nagana (Trypanosomiasis)

· Newcastle disease

· Notifiable avian influenza (NAI)

· Porcine reproductive and respiratory syndrome (PRRS)

· Psittacosis

· **Rabies**

· Rinderpest

· Salmonella Enteritidis

· Salmonella Gallinarum (Fowl typhoid)

· Salmonella Pullorum (Bacillary white diarrhoea)

· Scrapie

· **Sheep scab**

· **Skin conditions in sheep**

· Swine vesicular disease

· **Tuberculosis (in all animal species)**

Equine viral arteritis (EVA)

Important Diseases

Foot and mouth disease (FMD)

African horse sickness (AHS)

- African swine fever (ASF)

Classical swine fever (CSF)

Sheep scab

- Skin conditions in sheep

Zoonotic Diseases: Humans can contract

Anthrax

- Brucellosis (in all animal species)
- Rabies
- Tuberculosis (in all animal species)

HOW DOES BACTERIA AND VIRUSES GET TRANSMITTED?

- How does
Diseases
Spread?



HOW ARE **THESE THREATS/DISEASES** TRANSMITED???

1. Saliva, teeth bites through broken skin
2. Inhalation of airborne virus of bacteria
3. Contact with body fluids



4. Contaminated
ground/shoes/vehicle



tyres/fodder (...of
saliva/vesicle or
blisters



– it got into contact
with the virus -
mechanically

AVIAN INFLUENZA



SWINE FEVER



Sudden deaths of pigs

What should you do?

- Avoid contact with all other pigs
- Do not buy pigs from auctions
- Buy pigs from trustworthy sources
- Do not feed swill (vegetables, bread are okay)
- Disinfect needles and syringes between pigs if you need to treat them
- Introduce minimum biosecurity measures on your farm (see SAPPO website: www.sapork.com)
- Thoroughly disinfect your pens and farm before bringing new pigs onto your premises
- Disinfect vehicles before and after transporting pigs

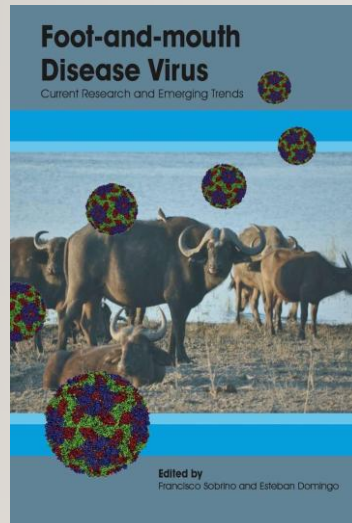


Wart hogs and sand tampan
And pigs from other areas,
wild pigs

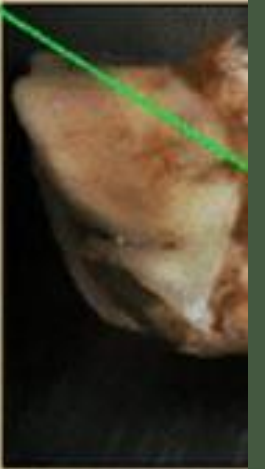
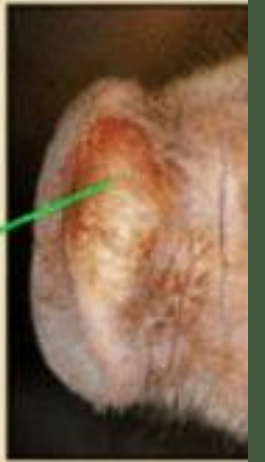
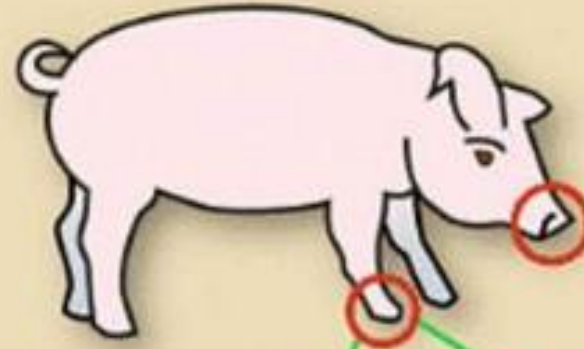
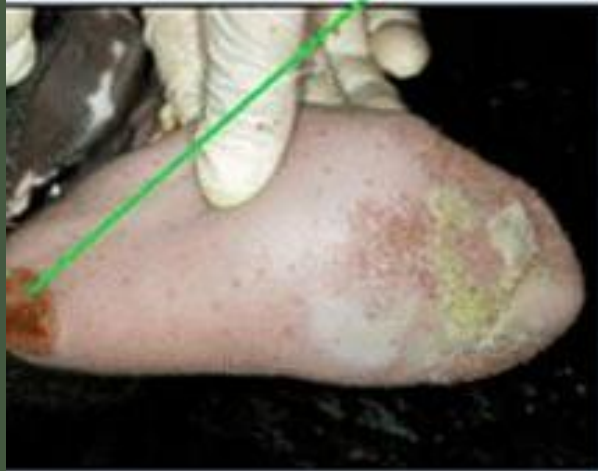
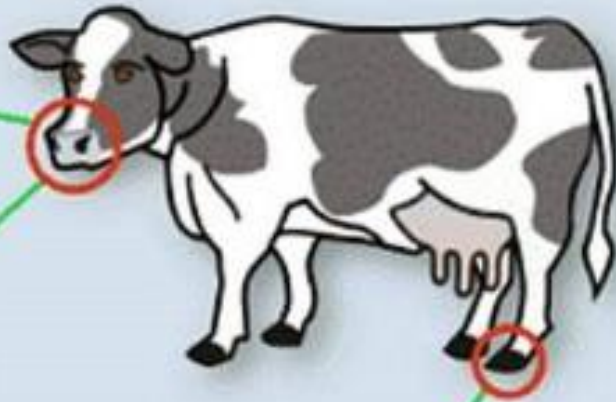
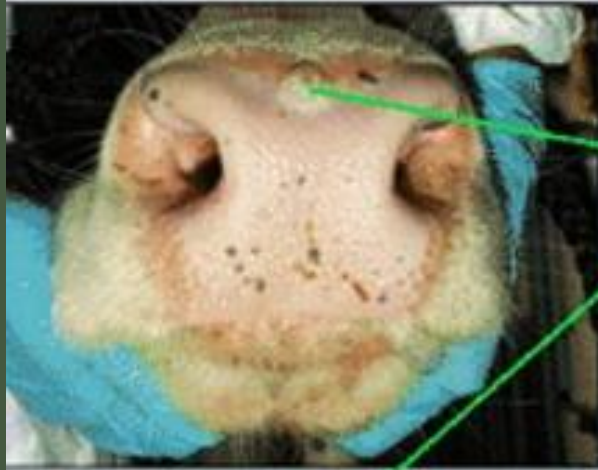


!!FOOT AND MOUTH DISEASE!!

- FOOT AND MOUTH/ BEK EN KLOUSEER
- Highly contagious
- Low Mortality
- High Morbidity
- State controlled disease - Report











WHAT CAN FARMER DO TO PROTECT OR PREVENT ? (BIOSECURE)

CHECK ORIGIN – TEST

IDENTIFICATION know which animals have come in
Records

SEPARATE/ISOLATE FOR at least 4 WEEK from rest of the herd in
quarantine camp

Vaccinate and treat against parasites

BIOSECURITY: DISINFECTION

GOOD SECURITYFENCE, Animals must stay in , **Visitors book, vehicles**



WHAT CAN YOU DO
TO PREVENT THE
DISEASE FROM
SPREADING??



VISITORS



**PLEASE RESPECT FARM BIOSECURITY
DO NOT ENTER PROPERTY WITHOUT
PROPER APPROVAL**

BIOSECURITY IN PLACE



**STEP INTO
FOOTBATH
BEFORE
ENTERING**

ARRIVE WITH A CLEAN AND DISINFECTED VEHICLE AND EQUIPMENT



Disinfection

Bucket, pressure
sprayer and brush in
vehicle.

Put on clean
gumboots before
entering a farm or
auction.

Disinfect your
mudflaps, wheels,
clean mud and
manure from vehicle.

entering another
farm.

Disinfect shoes worn
at
auction/show/farmer's
day before



Clean Shoes







DISINFECTING PRODUCTS

- MULTIPLE ORGANISMS
- CORRECT CONCENTRATION!!!

DISINFECTANTS FOR USE AGAINST FMD VIRUS

Virkon S 10 minute
contact time:

Virkon S Defra Approvals:

- Foot & Mouth Disease: 1g in 1300ml of water
- Swine Vesicular Disease: 1g in 100ml of water
- Diseases of Poultry: 1g in 280ml of water
- General orders: 1g in 100ml of water

Surface disinfection: Routine disinfection for all surfaces, earth, wood, and concrete. Use a 1:100 dilution (10g of Virkon S for every litre of water). Apply via a pressure washer or other mechanical sprayer, apply Virkon S solution at an application rate of 300ml/m².

Equipment disinfection: Routine cleaning and disinfection of movable farm equipment. Use a 1:100 dilution (10g of Virkon S for every litre of water). Apply using a brush or pressure washer, wash all equipment in Virkon S solution until visibly clean.

Water system: Terminal disinfection 1:100 to 1:200. Continuous disinfection 1:1000.

Foot dips: Routine disinfection of footwear. Use a 1:100 dilution (10g of Virkon S for every litre of water). Replace solution once it has either become soiled or after 4-5 days.



ACCESS CONTROL

- Respect
- Appointment
- Records
- Access Vehicle.



-
- **DATE, NAME, REASON FOR VISIT, CONTACT WITH OTHER FARM/ANIMALS,**
 - **REGISTRATION NU VEHICLE, SIGN**
 - **DO NOT LET DRIVER GET OUT WHEN FROM ELSEWHERE**

Any Questions??

Thank you

