Theme 9: Animal Health

BIOSECURITY OF DAIRY FARMS (Level 1)

Topic	Training & information Content
9.1	Introduction to Animal health (Prevention vs curative health care)
9.2	Health signals
9.3	Biosecurity of dairy farms
9.4	Tick born diseases (Prevention and treatment)
9.5	Worm infections (Prevention and treatment)
9.6	Vaccination schedule and planning
9.7	Mastitis prevention and treatment
9.8	California Mastitis Test
9.9	Usage and storage of veterinary medicines on dairy farms
9.10	Administering of medicines to dairy cows
9.11	Instruction use of injectors into teat canal
9.12	Key performance indicators (KPIs) for monitoring health status of dairy herd



1. You will learn about (learning objectives):

- ☐ Biosecurity and its importance.
- ☐ How to implement biosecurity measures?
- ☐ The effect of biosecurity measures.



2. Introduction

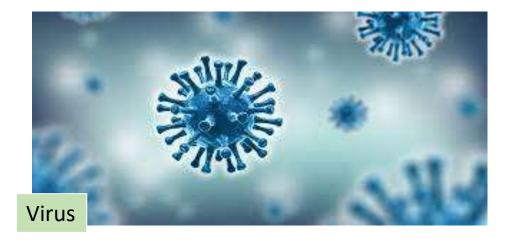
What is biosecurity?

 Measures taken at the farm to decrease the risk on diseases caused infectious agents.





Foreign (Dutch) traffic sign to stop!



3. Pathogenic microorganisms

Tongue

Which agents can cause diseases?

- Bacteria and rickettsia
- Viruses
- Protozoa
- Fungi
- Worms



Foot and mouth disease is caused by a virus

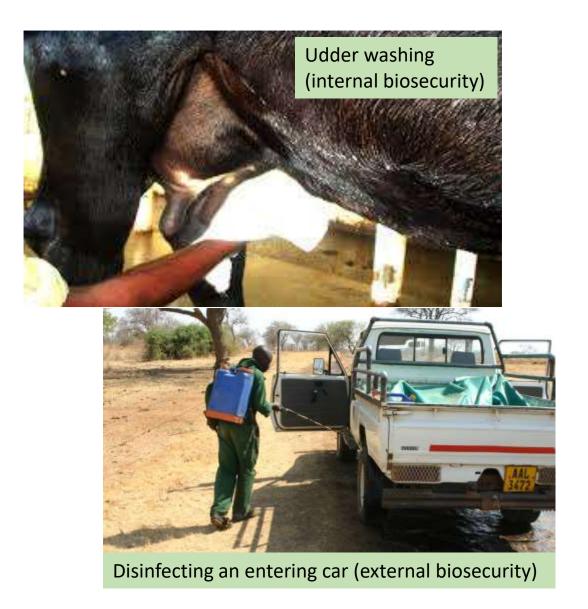




4. Classification of biosecurity

Biosecurity is about;

- Make sure diseases do not enter your farm. This we call <u>external biosecurity</u>.
- Make sure diseases do not spread. This we call internal biosecurity.
- Definition: Biosecurity is doing things to decrease the number of diseases at the farm.



5. Biosecurity and Infection pressure

- The less ticks, the less chances on tick borne diseases.
- The less bacteria, the less chance on mastitis and calf scour.
- The less viruses, the less chances on viral diseases like foot and mouth disease.





6. External Biosecurity

 External biosecurity is to prevent diseases coming into your farm.



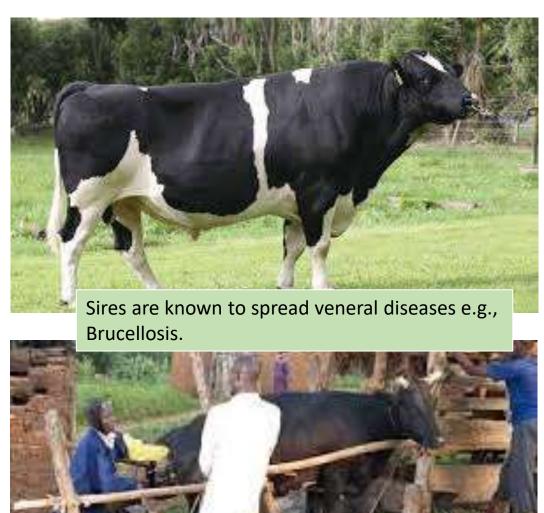




7. Closed farm

- Animals spread diseases.
- If no animals come into the farm, the less chance of diseases.





8. Quarantine

 When an animal comes into the farm, keep it two weeks separate to look if it is healthy.

FMD gives the government reason to set quarantine measures







8.1 Quarantine Cont'd: Other animals

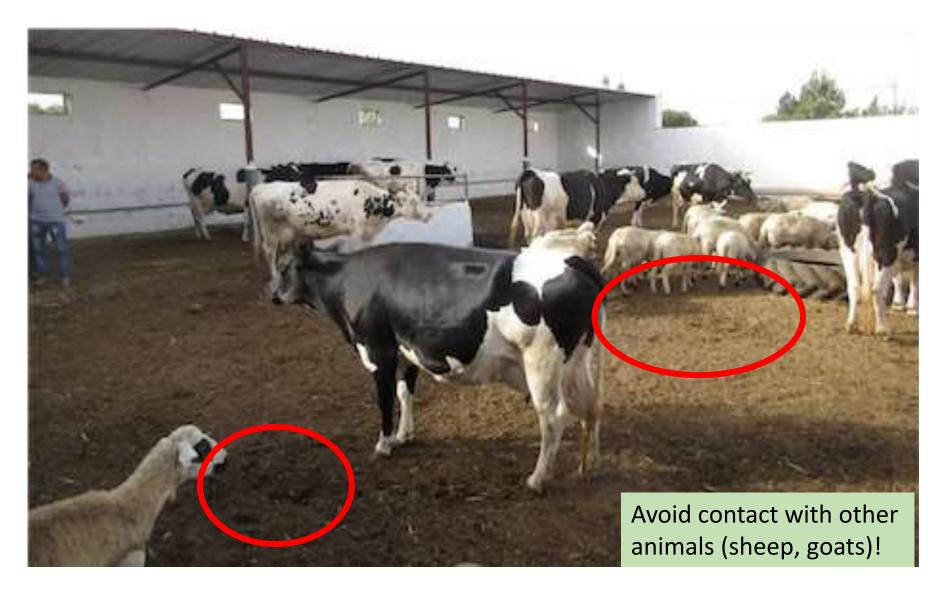
 Other animals can also transfer/spread diseases to cattle.







8.2 Other animals Cont'd...



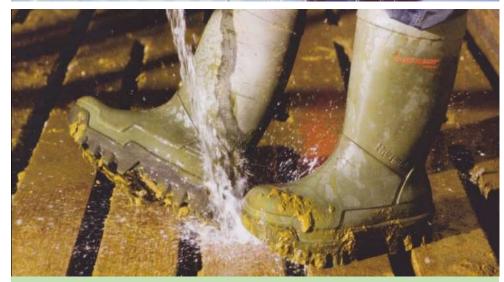
9. Internal biosecurity

Internal biosecurity is to make sure diseases do not spread on the farm.



Washing your hands helps to reduce spreading viruses and bacteria

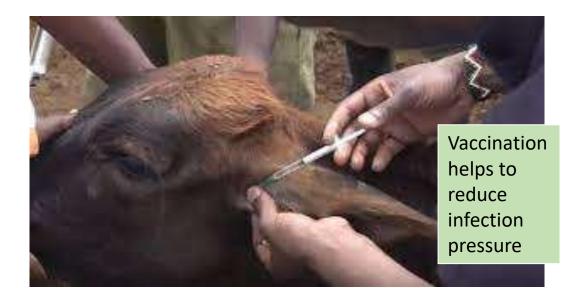




Manure contains a lot of bacteria. Cleaning gumboots will prevent spreading them.

9.1 Internal biosecurity Cont'd...

- Work clean.
- Vaccinate.
- Treat sick animals.
- Keep cattle separate from goats and sheep.







Separating sick animals helps to prevent spreading of the disease

