

Prevention is better than cure

Biosecurity:

 Procedures or measures to prevent introduction or spread of pathogens at the farm



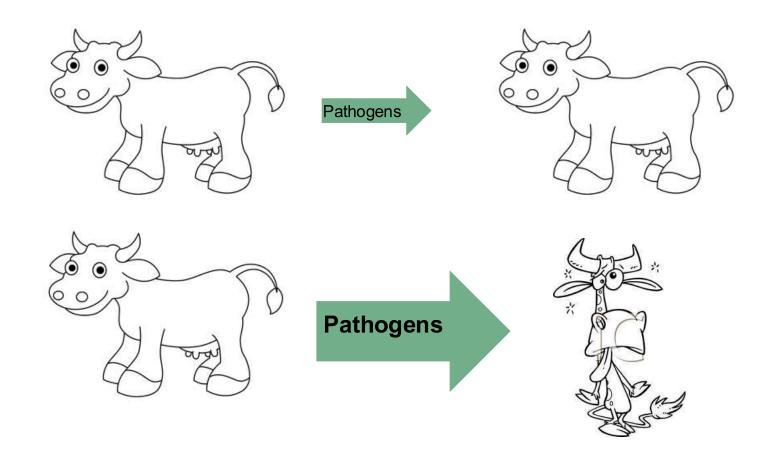
Be prepared; but why?

- Salmonella
- Mycoplasma
- Mastitis
- BRSV
- Cryptosporidia
- Rotavirus
- E-coli
- Foot and mouth disease
- •

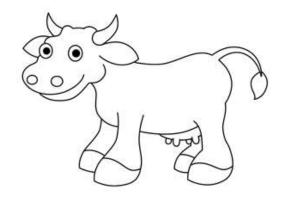








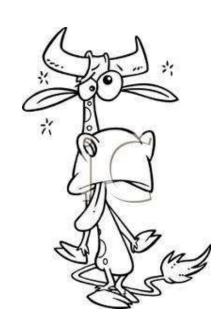




Animal factors

Disease

Environmental factors





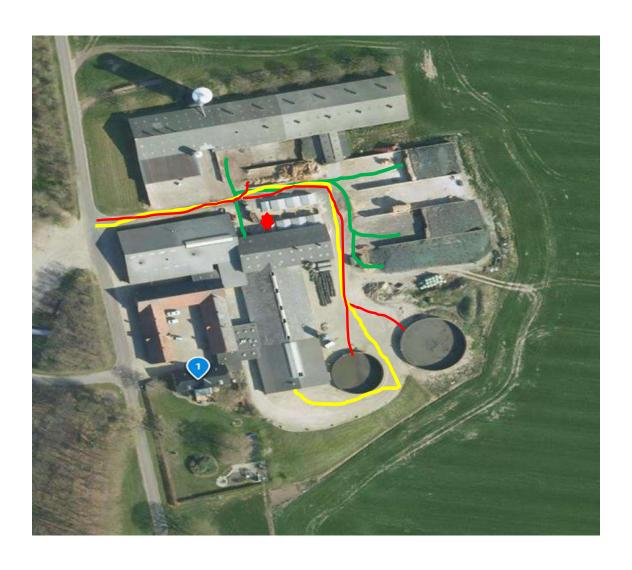
Size matters!

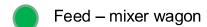
• More animals = greater risk

Risk of infection	Herd size				
Neighbours with Salmonella	1-100	100-200	200-300	300-500	500 +
0	0,2%	0,4%	0,6%	0,6%	1,0%
1	0,5%	0,9%	1,4%	1,4%	2,5%
2-3	1,4%	2,6%	3,8%	4,0%	6,7%
4-7	4,0%	7,1%	10,3%	10,6%	17,1%
8 +	9,0%	15,3%	21,3%	21,9%	32,7%



Where to start on my farm?













Vehicles and transmission of pathogens



Farm access



People entrance





Biosecurity facility at farm





Gloves and boots

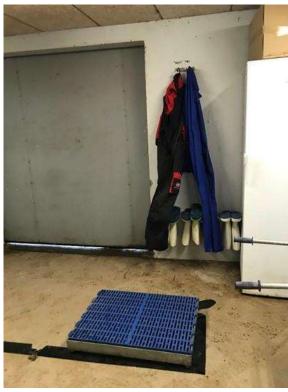






Designated boots and clothes for calf barn









Biosecurity and calving

- Newborn calves are very susceptible
- Calves get dirty very easily
- Calves suck on the cow and other places
- Cows can start shedding pathogens around calving
- Fresh cows are more susceptible
- Calving area is a busy area with a lot of traffic





How to improve biosecurity in the calving area?

Hygiene:

- Keep the cows clean
- Keep the pen clean
 - Stocking density
 - How often do we clean out the whole pen
 - How often do we put straw in the pen



How to assist with calving

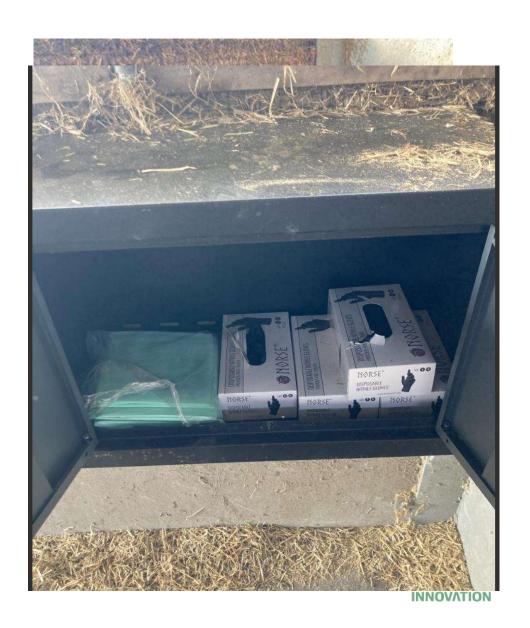
Tie the cow up

Wash the genitals with water and a mild soap

Wash your hands and arms

Use gloves

Keep the equipment clean and close by



Good hygiene working with calves



Clean footwear and clothes when working with calves

Younger calves first

Sick calves last

Wash all calf feeding equipment

Limit who has contact with the calves

Work with your veterinarian to implement a calf disease prevention protocol



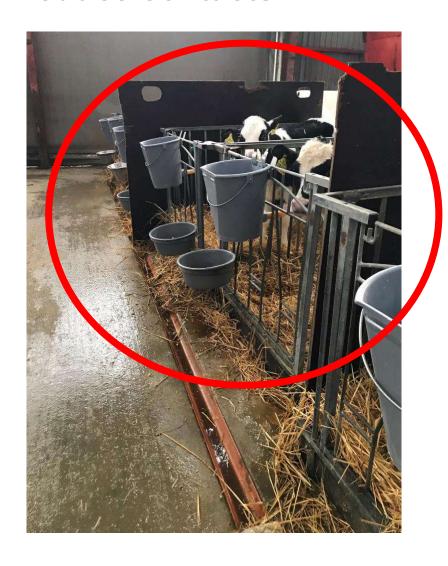
Keep environment and calf hutches clean







Reduce contacts







Cleaning procedures



Remove dirt

Rinse

Apply correct soap

Wash with water – high pressure, brush

Desinfection

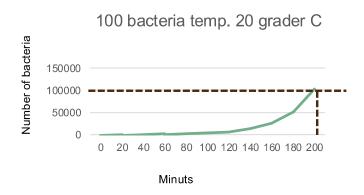
Drying

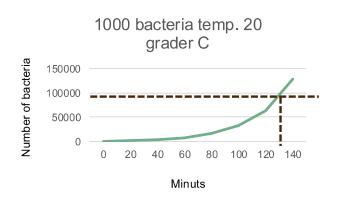




Hygiene and colostrum

- Bacteria in colostrum inhibit the absorption of antibodies
- The number of coli bacteria can double in 20 minutes stable temperature (20°C)

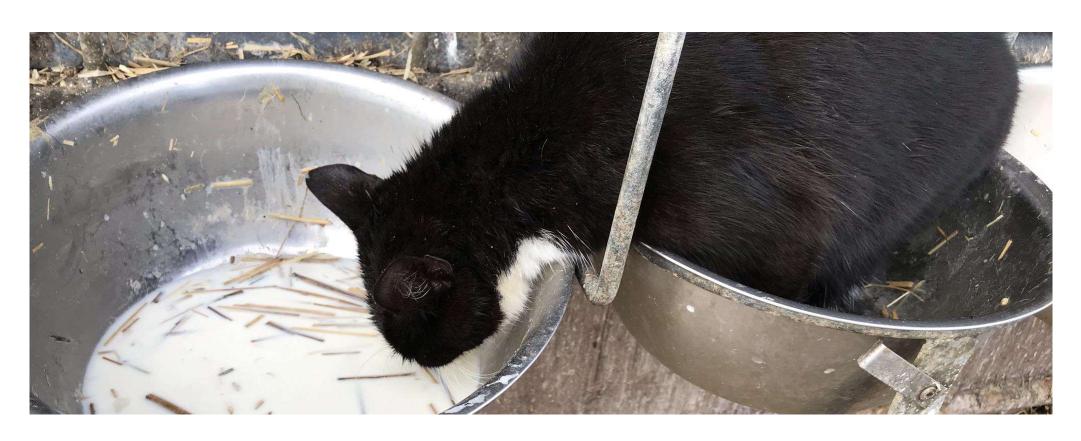








Calf Feeding

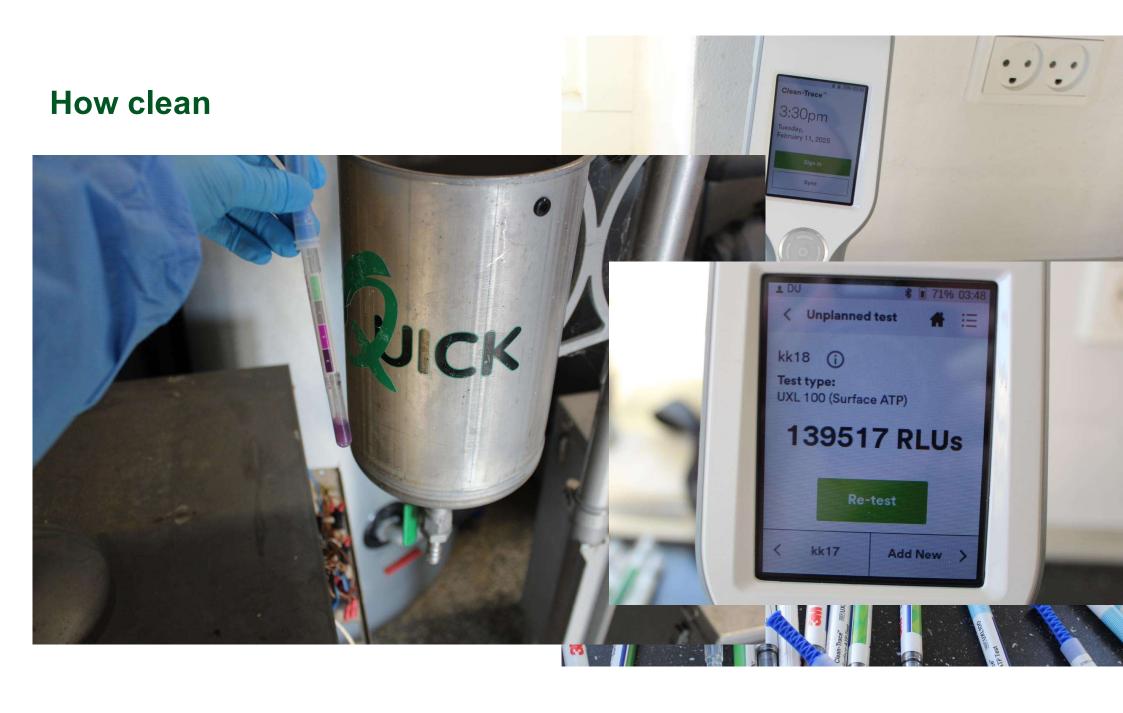




Equipment for colostrum







Feeding table





Manure in feed



Milking parlour -









Milking and biosecurity

- Hygiene
 - Cows
 - Equipment
 - Hands use gloves
- Segregation
- Fresh cows/sick cows



How to keep the cows clean

- Clean and comfortable beds
 - Clean beds daily
 - Do the beds have the right dimensions?
- Clean alleyways
 - Does the scraper work properly?
 - More frequent scrapings?





Segregation – is it possible?

- The preferred order of milking:
 - Fresh cows
 - Young cows
 - Older cows
 - Cows with high somatic cell counts
 - Milk sick cows at last
- Be aware of the fresh cows!
 - Use a clean machine for them





Take home



Take a closer look at your farm



Use your common sense



Focus on how machinery, animals and people move around on the farm



Improve hygiene



Think in solutions



