Theme 6: Calving, Young Stock Management

CARE OF COW AND CALF AFTER CALVING (Level 2)

Торіс	Training & information Content		
6.1	Selection of bulls, use of sexed semen, feeding management of dry cows		
6.1.1	The calving process		
6.1.2	Use of equipment around calving		
6.1.3	Care of cow and calf after calving		
6.1.4	Colostrum management		
6.2	Milk (replacer) feeding schedule		
6.3	From birth to weaning		
6.4	Disease and health management		
6.5	Handling of calves after difficult birth		
6.6	Young stock rearing info and Key Performance Indicators		





1. You will learn about (learning objectives):

- How to treat a calf during the first 24 hours after birth
- What to do to reduce calf mortality rate during the first 24 hours
- How to treat the "mother" cow after parturition
- **Colostrum** management



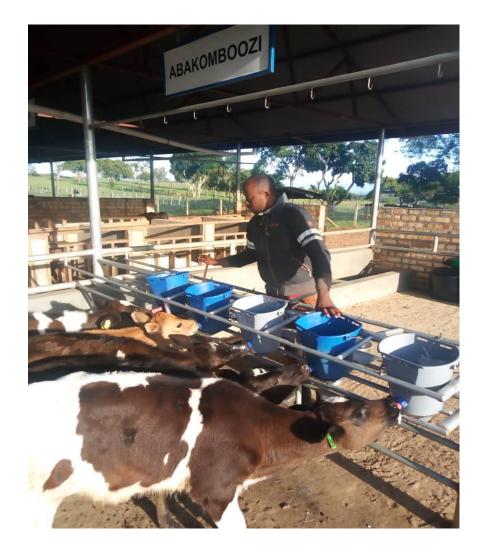
2. Background

- Worldwide in every farm system, many calves die during the first 48 hours
- In most cases it is the farmer who is responsible for these calf deaths/losses
- In general, a high percentage of these losses are caused by;
 - Lack of skills
 - Lack of knowledge/low level of awareness; and
 - Ignorance

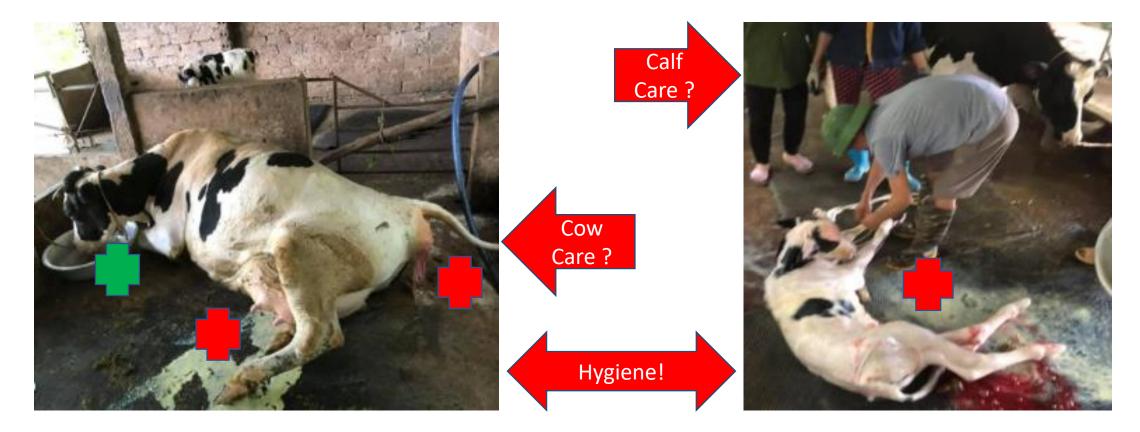


3. Checklist for pre and post calving

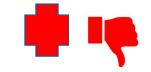
To be checked			Action to be taken
Parturition area is very clean	Yes	No	
Vulva area of cow in labor is clean			
Cow's udder is clean and hairless			
All necessary equipment's are present			
Clean fresh cold water is available			
Calf hutch is ready for use			
Navel cord disinfection fluid is present			
Milk cans are disinfected and washed			
Feeding bottle, (tube feeding) near by			
Contacts Veterinarian available			
Cooling facilities available (colostrum)			

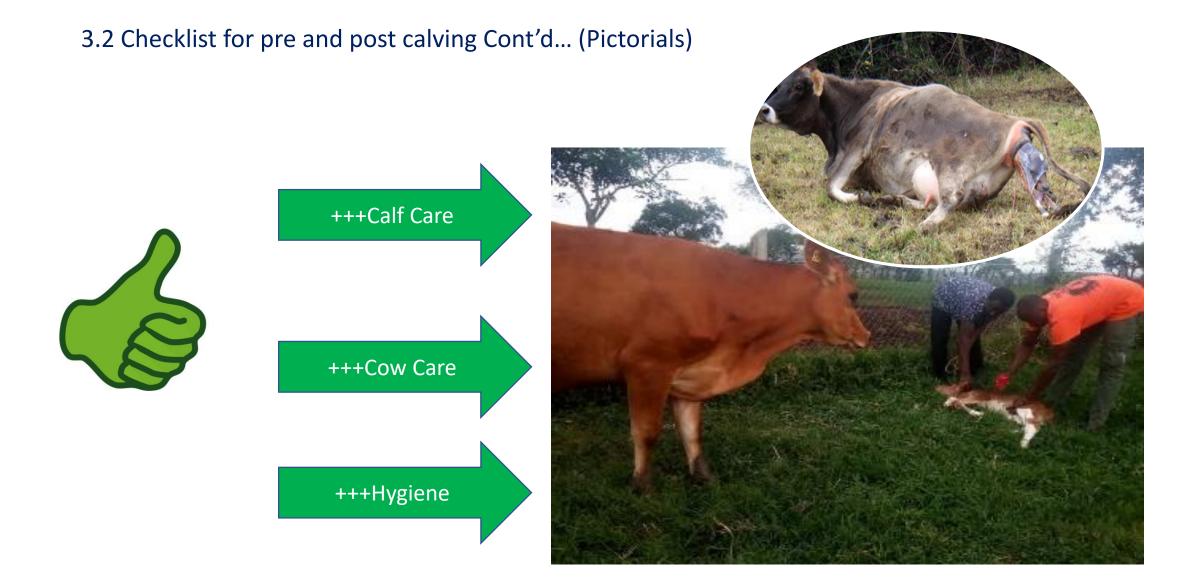


3.1 Checklist for pre and post calving Cont'd... (Pictorials)









4. Calf mortality

Example;

Negative impacts on calf mortality in the first 48 hours

- + Poor comfort for the cow......calving process may delay.
- + Poor hygienic conditions.....sterile calf immediately infected.
- + Leaking milk, wet and dirty udder/teats......contaminated colostrum
- = Relative high risk of diseases and death



5. Calf survival

Example;

Positive impacts will help the calf to survive easily

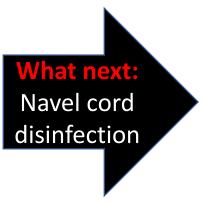
- + The best place to give birth
- + Excellent hygienic conditions.....clean environment
- + Nice clean udder...... Good quality colostrum, no unnecessary infections
- = High survival rate without diseases



6. Calf care – after birth

- Immediately after the calf is born, all the emphasis must go to the calf
 - Is the calf alive?
 - Is the calf active?
 - Is the calf breathing/stuffy?
 - Is the calf's navel cord not bleeding?





7. Calf care: Navel cord disinfection

• Navel cord disinfection is a number one priority immediately after birth

Step by step procedure

- <u>Step 1;</u> Localize the exact place of the navel to be sure the treatment is effective
- <u>Step 2;</u> Dip the umbilical cord in the dip cup few times up and down to be sure that the whole area is disinfected



Source: Roodbont

7.1 Navel cord disinfection Cont'd...

- <u>Step 3;</u> Take the dip cup away after the treatment and asses the presence of sufficient dip agent
- <u>Step 4;</u> To finalize; fill your hand with dip agent and massage the navel for 10-15 seconds

Important tips

- Tip 1; Whole procedure of navel disinfection must be repeated after 12 & 24 hours
- Tip 2; Always wear gloves when dipping
- Tip 3; Clean the dip cup after being used for one calf. Used (not cleaned) dip cup may cause infections.



Source: Roodbont

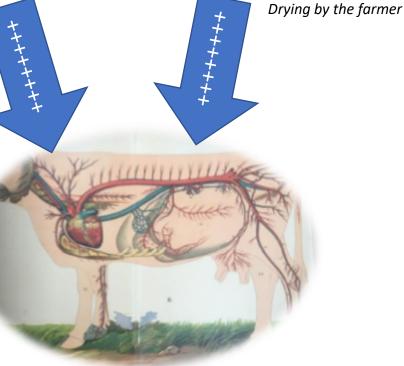
8. Calf care: Licking and/or drying

- Calf's blood circulation is stimulated under influence of licking by the mother or drying by the farmer
- This activity for sure has a positive influence on the calf's suckling reflex and the calf's colostrum intake



Licking by the mother





9. Caring for both Calf and Cow

++ high level of cow care, offering water-- low level of calf care, dirty underground, calfcan easily be infected through (open) navel cord



10. Cow care

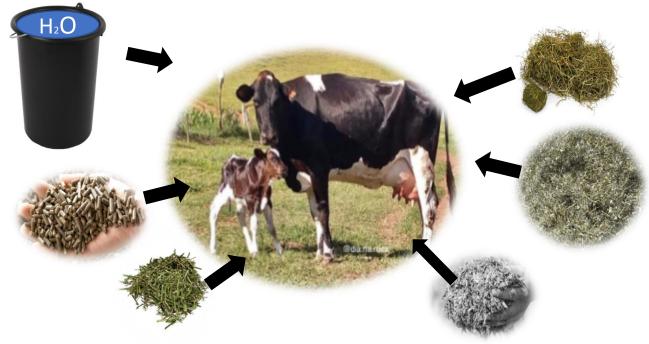
- For a newly calved cow, everything must be aimed at getting the feed intake going as quickly as possible
- All the feedstuff available in the farm must be offered to the cow to fill up her stomach

!!!!

Be careful with concentrates. Roughages can be given ad-libitum

 Water, without limitation, is the cheapest medicine to increase the feed intake and to let the cow feel hungry

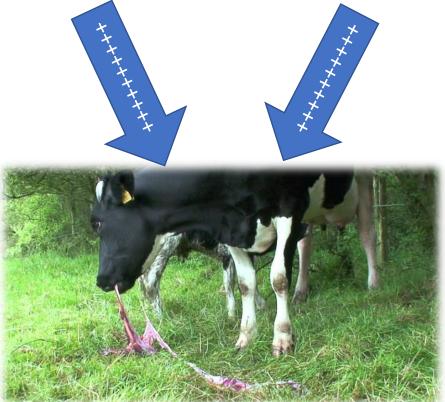
Remember: "A healthy rumen is a healthy cow"



11. Placenta

- Placenta will come off soon after calving, giving the cow the opportunity to lick the calf will help to drift off the placenta
- Also frequent milking has a positive impact on drifting of the placenta
- In healthy cows this process is completed within 12 hours after the calf is born

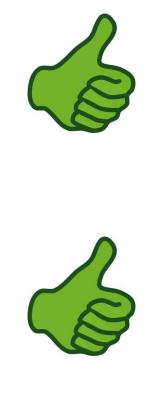




12. Hygiene

• Maintain hygiene at all times

Hygiene!











13. Colostrum management in case of Feeding

- Milk the colostrum as soon as possible (within one hour after calving)
- Use clean buckets and wash your hands properly before milking
- Before milking, clean the udder and teats intensively
- Feed the calf at least 1.5- 2 litres fresh colostrum
- If some colostrum is left, store in a cool place (e.g. refrigerator) for use in the second feeding
- Milk the cow again after 6-8 hours and store it in a cool environment for another feeding to the calf



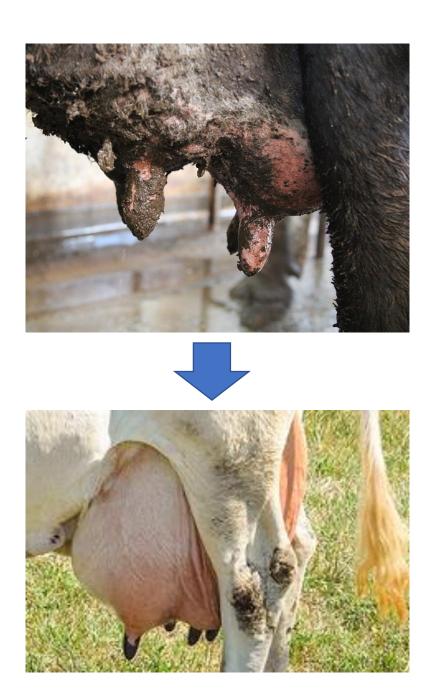
13.1 Colostrum management in case of Feeding Cont'd...

- Cooled colostrum must be warmed up to 40°C by the so called 'Au-Bain Marie method.' That is;
 - Put the colostrum in a container and inside another container with hot water 70-90°C . Continuously add hot water and stir the colostrum
 - DO NOT put the water container with the colostrum container on a heat source



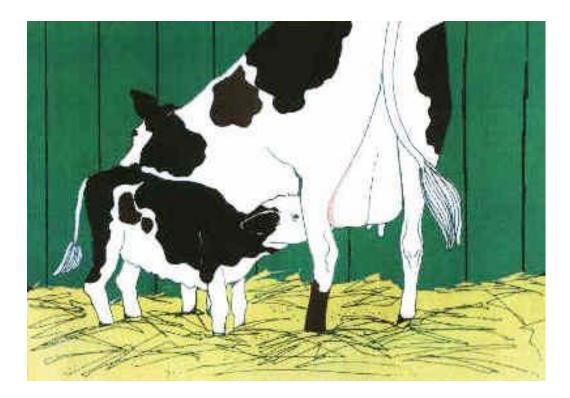
14. Colostrum management in case of Suckling

- Keep cow and calf together but separate from the rest of the herd
- Before suckling, udder and teats need be cleaned intensively
- Always check the teat canals whether they are open
- Also check all four teats for mastitis



14.1 Colostrum management (in case of suckling) Cont'd...

- Observe behaviour of the cow (especially first calvers) whether she allows the calf to suckle
- A sleeping calf is a content calf, means stomach is full
- Active calf throughout the day means:
 - Low intake of colostrum
 - Dirty udder
 - Deep udder (udder sagging closer to the ground)
 - Poor maternal qualities



14.2 Colostrum management (in case of suckling) Cont'd...

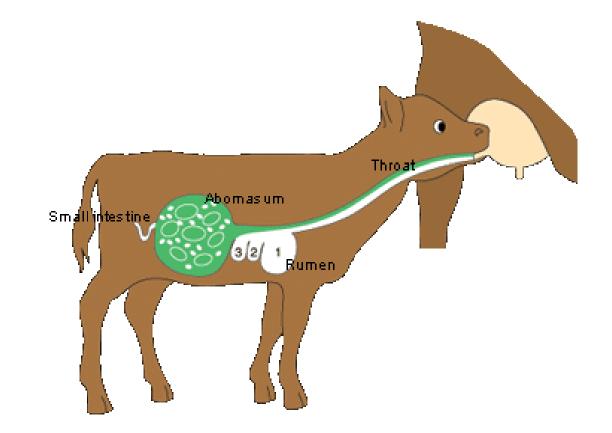
- In summary, calves can suckle colostrum from;
 - a milk feeding bottle
 - a teat bucket
 - the 'mother' directly



15. Suckling/feeding milk to calves

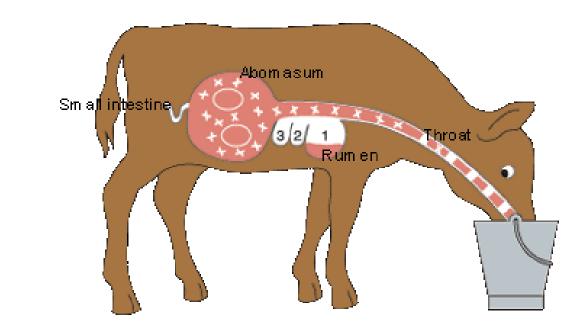
- The way of suckling/drinking might be the cause of problems
- This is the how a calf should drink milk. This way, all the milk goes into the abomasum





15.1 Suckling/feeding milk to calves cont'd...

• This way of drinking may cause some digestible problems. Look at the milk that enters the rumen !!!!



16. Summary: Take home message(s)

Calf	Cow	
Its all about Hygiene	Its all about accuracy	
Poor hygiene is the most important reason why the mortality rate in new born calves in some farms is unnecessarily high	Poor accuracy is definitely the cause why many cows do not perform well in the first few weeks after calving	
Beware! A calf is born without one single gram of resistance, and in any chance bacteria will get to enter the calf's body/bloodstream/respiratory tract and cause a disease to the calf	Beware! The period after calving is the most sensitive period for the cow. The cow is weak and starts mobilizing body reserves. Attention is required to guide the cow throughout this difficult period	
First colostrum should be warm and clean; must be given as soon as possible	Water feeding is the cheapest medicine to let the cow eat and recover from parturition issues	

