# UNIVERSITY OF MARYLAND EXTENSION

# COMMON MANAGEMENT TECHNIQUES FOR A SUCCESSFUL CALVING SEASON

### What is "Normal Calving"?

The actual process of calving covers 3 stages and can last up to 20 hrs – length varies between cows and heifers.

- Stage 1: Preparatory (2–12 hrs) Calf is entering the birth Canal
  - <u>Time Frame</u>:
    - Cows (2-8 hrs), Heifers (4-12hrs)
  - <u>What's happening inside</u>:
    - Fetal cortisol increases = uterine contractions begin
    - Uterine pressure increases = calf rotates to front feet and head are positioned at the cervix
    - Uterine contractions increase = calf enters the birth canal
  - <u>What to look for</u>:
    - Signs of discomfort restlessness, arching of the back, slight straining, kicking at the belly
    - They will urinate more frequently and separate themselves from the herd
    - Fully Alert may still eat, drink and otherwise behave normally

Stage 1 ends when there is a visible water bag

#### • Stage 2: Delivery of the Calf (30 min-4 hrs)

- <u>Time Frame:</u>
  - Cows (30 min-2hrs), Heifers (1-4 hrs)
- <u>What's happening with the Cow/Heifer:</u>
  - Calf in the birth canal = induces reflex to push (visible abdominal contractions)
  - Pressure on calf's feet and head in birth canal = rupture of water bag (lubrication)
  - Contractions strength = Cow/Heifer may lie down







A. Beginning of stage 1 – cervix is closed. B. Dilation allowing the fetus to enter the birth canal. Oregon Calving School Handbook, 2008



#### How "Normal" Delivery Progresses:

- Front Feet Soles of the feet should be facing down
  - Abdominal contractions become more frequent and intense – *Progress may slow for a few minutes to allow for vulva stretching*
- Nose
- Rest of the Head
- Shoulders
- Chest
  - Mucus may come out of the

#### • Stage 3: Delivery of the Placenta (1-12 hrs)

- The placenta should detach from the uterus immediately after the calf is delivered
- Contractions help deliver the placenta from the cow DON'T HELP PULL THE PLACENTA THIS CAN CAUSE DAMAGE TO THE UTERUS
  - Delivery can be delayed because of fatigue, but should be within 12 hrs of calf delivery

#### calf's mouth and nostrils – this helps clear the pathways for normal breathing

- The Rest of the Calf
  - *Within 10 minutes*, the cow/heifer should be standing and licking off the calf
  - Calf should be working on standing *within 20-30 min* and nursing *within 60 min*

## **<u>Calving Preparation Tips:</u>**

- **PATIENCE:** Calving is a marathon not a sprint, some things can't be rushed.
- Timing of Feeding: Konefal Method
  - Feeding a supplement forage once a day between 4-6pm (dusk) results in approximately 80-85% of calves born between 6am-6pm

#### Record Keeping: Maintain Detailed Calving Records

- Information to maintain: Due Date, Sire, Actual Calving DAte, Time of Day She Started, Time Water Broke, When Feet Appeared, Delivery Complete, Length of Labor, Sex of Calf, Anything Abnormal, Anything Noteworthy
  - This information will help in future years to know what's "normal" for each animal
- Colostrum
  - Calves should receive 2 quarts (5% of their body weight) in colostrum within the first 4 hours after birth – Ideally 30 minutes.
    - A total of 1 gallon within 12 hours of birth to help develop a strong immune system
- Make sure your calving area is ready (if indoors) and your calving kit is clean and equipped for the upcoming season.

Patience and being prepared are two of the most important tools in your calving season tool box – Calving takes time, remember slow progress is still progress.

#### Questions?

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