

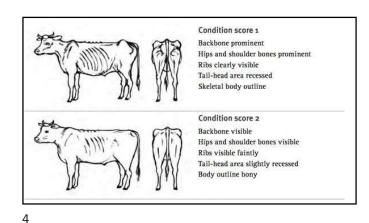
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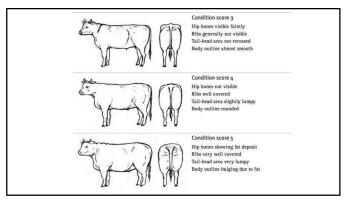
Recommendations for gestational care

- Nutrition!
- Pregnant females must be fed to maintain proper body condition • Ideal = 2.5 to 3.0
- Free access to mineral (selenium)
- Stress?

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- Clean dry environment reduces infection risk
 - New pasture
 - Clean maternity pens





Disease in Pregnant Cows

- Vaginal Prolapse
- Abortion

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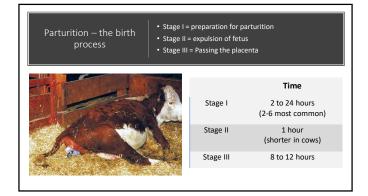




- Delivery of dead calves before full term
- Causes:
 - Infectious disease (BVD) · Genetic issues (fetal malformations)
- Twins
- Herd outbreak
 - Ideally keep a fresh fetus and placenta
 - Do not freeze!







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Normal birth position

- Feet first
- Then nose and head
- Extended





Dystocia – difficult birth

- Most common cause = malpresentation
- PROPER RESTRAINT!
 - Reduces injury to personel Reduces injury to cow
- Speeds up work time

Just 'cause she's friendly does not mean she will appreciate my hand up her hoohaw.





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Dystocia – difficult birth

- Check cow for malpresented fetus if stage 2 labor is taking too long
- Wear gloves
- Use mild soap (dawn dish soap) and warm water to clean vulvar area
- Use obstetrical lubricant
- Gently palpate fetus in vaginal canal to determine positioning

If Normal Position

- You have palpated 2 front legs and 1 head (or 2 back legs)
- THEY ARE ATTACHED TO THE SAME CALF
- Put chains on and pull



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How to tell if legs are front vs back

- Palpate leg joints
- If both joints bend in SAME direction = Front leg
- If both joins bend in OPPOSITE direction = Back leg
- Same calf?



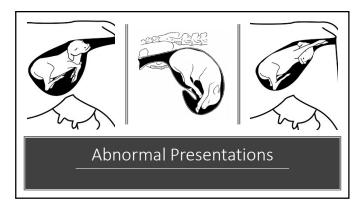


OB chains

- Helps hold onto fetus while positioning
- Make sure use double loops as shown to reduce possibility of leg fractures



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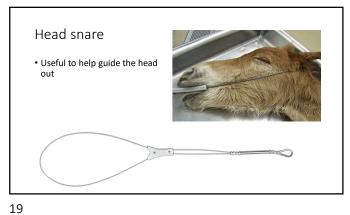


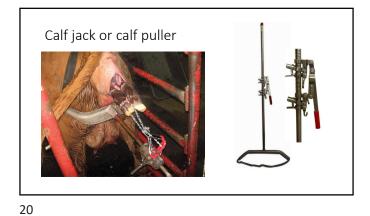
Repositioning the fetus

- Can gently repulse (push back) the fetus into the uterus and pull up legs/head as needed
- Apply OB chains to legs you have BEFORE repulsing
- Use lots of lube
- Once head diving position is achieved, can pull
- WEAR GLOVES!



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When to call a vet

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- If Fetal manipulation unsuccessful call the vet
 - Give up sooner than later! If 15 minutes and no progress, you need help!
 - Best chance for good outcome if you call early
 - Many things vet can do to make dystocia easier (ie: epidural)

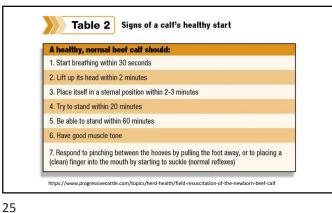
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The DON'TS

- DO NOT attempt to pull the calf with a motor vehicle
- DO NOT use a Come-along to pull calf
- DO NOT fail to restrain your cow appropriately
 - Even if she is down



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Calf Resuscitation

- Calves should begin breathing right after birth
 - Clear the airway by wiping or suctioning fluid out of nose and mouth
 - Stimulate a sneeze by poking the nasal septum with a piece of straw
 - DO NOT hang calf upside down or swing the calf
- Dry the calf

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- Warms it up/keeps it warm
- · Stimulates breathing
- If weather is cold can use a calf warmer
- · Allow cow to lick as well (promotes bonding)



Newborn care

- Calves should try to stand within 20 minutes of birth
 - · Able to stand within 60 minutes
- Nursing should occur within 2 hours of birth
 - Colostrum antibodies only absorbed less than 24 hours of birth
 - · Sooner the better!
- Dip navel in iodine tincture
- Allow cow and calf bonding time heifers may need extra time alone with calf to bond



Adequate Colostrum Intake = **Reduced Infections**

- Colostrum contains antibodies against disease
 - · Environmental
 - Vaccinated
- · Unlike humans, antibodies do not transfer across the placenta



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How do you know if calf got colostrum?

- Does Cow have adequate milk?
- Watch cow/calf nursing Is calf satisfied?
 - · Is cow letting him nurse?



Adequate Colostrum Intake • Calves should get 2 quarts (or 4 cups) within 4 hours of birth • If calf cannot nurse use colostrum REPLACER (not supplement)

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What requires veterinary attent • Newborns who fail to get up to nurse • Unresponsive despite adequate warming • Not nursing, lethargy • Fever (> 102.0 degrees) • Diarrhea

Newborn Calf Issues

- Scours
- Umbilical infection
- Septic Arthritis



Calf Scours

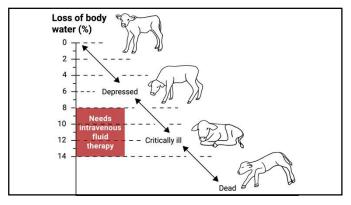
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- Caused by a variety of bacteria and viruses
- Increased incidence with inadequate colostrum intake
- Mild cases increase fluid and electrolyte intake
 - Many products available
- Severe cases intravenous fluids, antibiotics etc
- DO NOT STOP FEEDING MILK



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Umbilical Infection

- Umbilical cord not treated with iodine
- Calves can have normal temperature (100.0° F to 102.5° F)
- Umbilical infection is common cause for joint ill



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Post-calving problems for the cow

Retained Placenta
Metritis
Mastitis
Uterine prolapse

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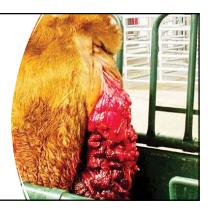
Retained Placenta

- Placenta not considered retained until after 12 hours
- May need help to pull out
- DO NOT rip out the placenta
 Severely damages the uterus
- May need to let it rot out
- <u>+</u> antibiotics
- Monitor for metritis



Uterine Prolapse

- Often related to hypocalcemia
- Need to replace and treat underlying condition
- High risk of hemorrhage and death even after replacement



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Mastitis

- Can progress quickly
- Symptoms: Swollen
- - Painful
 - Chunky milk
 - Hungry calf



Metritis

- Infection in the uterus after calving
- - Foul-smalling uterine discharge
 - Lethargy
 - Inappetance
 - Fever (> 102.5 F)

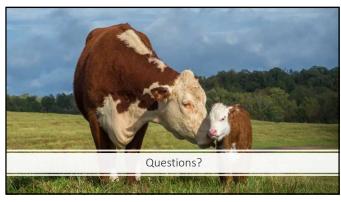


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Reference Articles and More Reading

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