Spring is just around the corner, and many of us are getting ready for our spring calving season. By now, all of your cows should be moved to their calving pastures, and you’re starting to check on the herd a little more frequently. Our goals for calving season are focused on delivering a viable, healthy calf and preventing injury to the dam. Being ready for potential complications will help us prevent losses from dystocia, and help ensure a healthy calf and dam.

Dystocia, or calving difficulty, is one of the leading causes of death of neonatal calves. Approximately half of all calf deaths at or soon after birth can be attributed to dystocia. An average of 4% of females will require some type of assistance at calving, with first-calf heifers more likely to have difficulty. It has been estimated that dystocia causes the beef and dairy industries over $400 million annually.

Before we are able to know when to assist in parturition, or calving, we first should have an understanding of what’s normal. Normal calving has three stages. During the first stage, or the “preparation stage,” the cow’s cervix is dilating, her contractions begin, and the calf rotates into the proper position (upright with nose and forelegs pointing towards birth canal). This stage ends when the water bag ruptures. The second stage, or the “delivery stage” starts with increasing contractions, the cow appears to be straining more and will often be lying down. The fetus enters the birth canal, and the calf is delivered. The third stage of delivery is the “cleaning stage,” where the membrane attachments relax and membranes are expelled.

Knowing when to assist can be difficult to predict. Assisting too early as well as too late can cause problems in parturition. There’s an old saying that nature picks the day, but the cow picks the time to calve. Try to avoid moving cows once they start the calving process. A cow can stay in the first stage of labor for extended times, especially if she is disturbed. Calving times can vary by many factors, including age and individual animal characteristics. The key is to watch the delivery process for progress. General guidelines for providing assistance have been provided (see sidebar).

If you encounter an animal that may need assistance, bring her to an area where she can be safely caught and examined. Be sure this area has good footing, and try to avoid sawdust and newspaper bedding. If you have to snug her up behind a gate or panel, it’s a good idea to get a halter on her to keep her restrained, leaving enough rope to allow her to lie down if needed. Have a bucket of mild soap or disinfectant available for cleaning of yourself, the cow, and your equipment, such as obstetrical (OB) chains. Clean the cow’s rectal and vaginal areas, and gently perform a vaginal exam using a plastic OB...
(palpation) sleeve to explore the situation: Is the calf in proper position? In a normal birth, you should feel the head resting upright between the two front legs. If you only feel legs, determine whether they are front legs or back legs by feeling up to the next higher joint. You cannot tell if the feet are front or back by just looking at the foot itself. Has the waterbag ruptured? Does the pelvic area seem wide enough to deliver the calf? If something wrong is found that cannot be easily corrected, or if you are uncomfortable examining the cow yourself, call your veterinarian for consultation and/or assistance immediately.

Minor calving problems can often be resolved with minimal assistance. Based on your level of comfort and experience, you may be able to manipulate the position of the calf to allow delivery. Obstetrical chains or straps can be used to provide assistance in delivery. When placing chains on the calf’s legs, be sure to loop above and below the fetlock joint to avoid injury to the calf. A loop may also be placed around the head - over the poll behind the ears and through the mouth. Never attach a loop to the lower jaw or just around the neck. Always use plenty of lubricant. When pulling, time you’re pulling with the cow’s contractions. You may have to “stagger” your pulls to alternative sides to help the calf’s shoulders clear the pelvis and avoid “shoulder-lock.” If “hip-lock” occurs, the calf may need to be pushed back a bit, then rotated. Give yourself a time limit – if you try a technique for 5 minutes that isn’t successful, it’s time to try something different. Be sure to consult with a veterinarian for more complicated calving situations, or at any time when you think further assistance is needed. Don’t wait until it’s too late.

Have your facilities and equipment ready and available if problems should arise. How many times have you looked for a tool or piece of equipment and found it’s not where you thought it was? Keep a “Calving Kit” ready prior to each calving season. Only put items you are comfortable using in your kit, and your kit should be checked and modified as necessary before each calving season. Give assistance as needed, or call a veterinarian to assist.

As always, observe the calving herd closely, paying special attention to first-calf heifers. You can also help prevent future calving problems by recognizing that there are many factors that contribute to a successful calving season such as nutritional management and genetic selection. Work with your veterinarian and extension specialist to be ready for calving this year and prevent problems in the years to come.

Calving Kit

- Halter or rope
- Bucket, disinfectant, mild soap
- OB sleeves and OB lubricant
- OB chains/straps and handles (3 each)
- Eye hooks, head snare (optional)
- Calf puller (optional)
- Veterinarian’s phone number
**When do you assist?**

General guidelines:

- Over 90 minutes since water bag seen with no progress
- Over 6 hours of restlessness, tail up with no progress
- Over 40–60 minutes of heavy straining with no progress
- Calf hooves visible and pointing up
- Only head or tail of calf seen