



ILLINOIS STUDENT CHAPTER OF THE SOCIETY FOR THERIOGENOLOGY

Therio Club!

What is the Society for Theriogenology?

Mission Statement

The Society for Theriogenology is an organization of veterinarians dedicated to animal reproduction, whose mission is to promote standards of excellence in reproductive medicine, to provide outreach and education to veterinarians, and to foster continual improvements in theriogenology.



What does a Theriogenologist do?

We aid in all steps of reproduction from getting animals pregnant, to birthing, to performing breeding soundness exams on males and females to make sure they are ready to reproduce.



Why do we need theriogenologists?

Veterinarians know all about how to get animals pregnant and produce more babies! This helps keep all your favorite species around including household pets, farm animals, zoo animals, and even preventing species from becoming endangered/extinct!



Common Therio Procedures All Veterinarians deal with

There are some common procedures that all veterinarians do on a daily basis.

- ❑ Artificial Insemination
- ❑ Ultrasound for pregnancy diagnosis, breeding exams, sexing fetuses
- ❑ Dystocias (difficulty giving birth)
- ❑ Breeding Soundness Exams (males and female)
- ❑ Palpation

What is Artificial Insemination?

Artificial Insemination is when a veterinarian fertilizes a female animal to achieve pregnancy. This can be achieved in different ways depending on the species:

- ❑ surgical artificial insemination
- ❑ vaginal artificial insemination



Why not do natural mating?

We do natural mating in many circumstances. Here are some reasons why we do artificial insemination:

- ❑ Designer breeds (a small poodle cannot mate with a big Bernese mountain dog)
- ❑ Males can be dangerous (bulls especially)
- ❑ Prevents STDs
- ❑ Travel logistics (easier to send semen than a whole cow or horse)
- ❑ Easier to control genetics (we can also chose the sex of the baby we want in some cases)

Why do we use ultrasounds?

Ultrasounds can be used for many different reasons when it comes to reproduction..

- ❑ Diagnosing Pregnancy
- ❑ Fetal Sexing
- ❑ Fetal Aging
- ❑ Ovulation Detection
- ❑ Embryo Transfer
- ❑ Prebreeding Exams (to see if uterus and ovaries are healthy)



Diagnosing Pregnancy Via Ultrasound

Bovine Fetal Aging with BoviScan HD
Ultrasound Images from 34 to 71 Days

Repro
Scan



Why Palpate?

Palpation is done most commonly on horses and cows

- To feel any abnormalities within the reproductive tract
- to assess what part of the estrus cycle the animal is in
- Artificial Insemination
- Embryo Transfer

Equine Palpation Pictures



Bovine Palpation

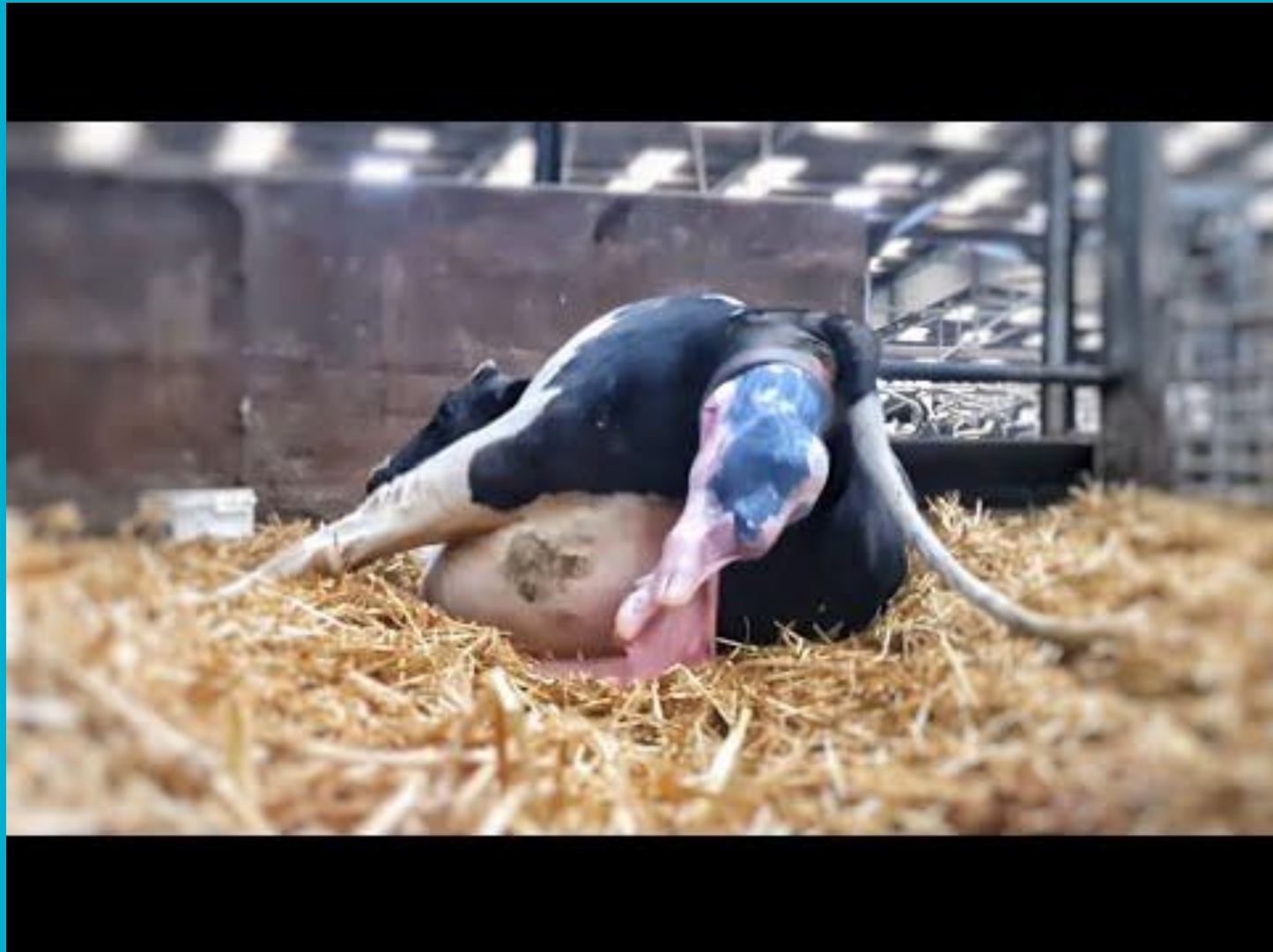


What is Dystocia?

Dystocia is something that can occur in every species of animals. This is when the female is having trouble giving birth. Veterinarians can intervene and help deliver the babies. There are many reasons dystocias can happen.

- ❑ mother calf mismatch-- the calf is too big or mom is too small
- ❑ fetus is in the wrong position
- ❑ mom “runs out of steam” and can no longer push

Cow Giving Birth



Trivia question #1

How long is a horse pregnant for?

- A. 7-8 months
- B. 8-9 months
- C. 9-10 months
- D. 11-12 months



Answer #1

The correct answer is D

Horses are pregnant for 11-12 months.

The average gestation of a horse is 330 days,
But they can range from 320-380 days.

Mare Giving Birth



Trivia Question #2

What is the average weight of a newborn Calf ?

- A. 85 lbs
- B. 100 lbs
- C. 125 lbs
- D. 60 lbs



Answer #2

A is the correct answer.

Calves can weight anywhere between 60-100lbs at birth but the average weight is 85lbs. Male calves typically weigh 5% more at birth then females do.

Trivia Question #3

What is the term for an infant fox?

A. Pup

B. Cria

C. Kit

D. Cub



Answer #3

This was a trick question!

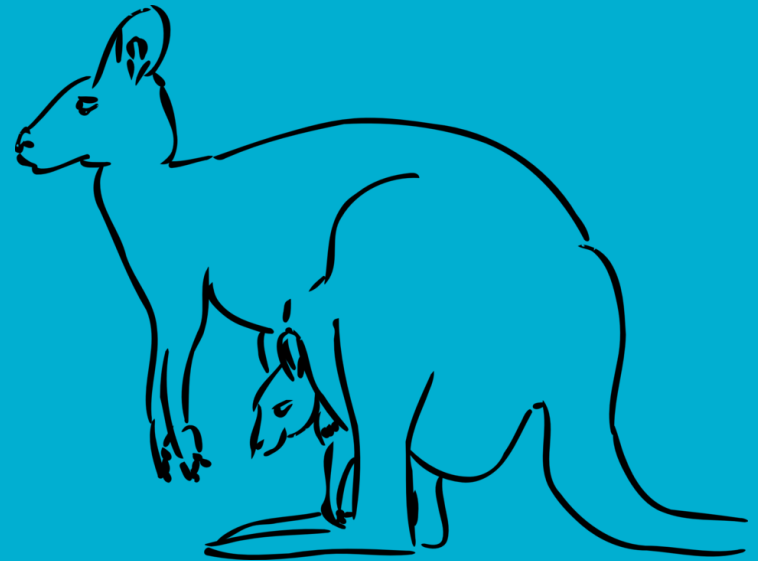
The correct answer is A,C,D

A newborn fox can be referred to as a Kit, Pup, or Cub.

Trivia Question #4

Which animal species can carry their babies in a pouch?

- A. Panda
- B. Fox
- C. Opossum
- D. Hamster



Answer #4

The correct answer is C!

Just like kangaroos, Opossums carry their young inside a pouch for 2 months. Once they are old enough the babies will come out and migrate to their mothers back!



Trivia Question #5

How well do you know animal gestation lengths?

Gestation is the scientific term for pregnancy.

Rank these animals in order from shortest gestation length to longest.

Sheep, mouse, dog, horse, cow, pig.

Here is the answer! How did you do?

1. Mouse : ~21 days
2. Dog: ~65 days
3. Pig: ~114 days
4. Sheep: ~152 days
5. Cow: ~283 days
6. Horse: ~330 days



Thank you for coming!

