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Obstetrics Vet. | 2nd semester | 4th year

2021-2022

Induction of Parturition

Induction of parturition: is the process of stimulation of the parturition by using medication or nonmedication methods.

Reasons for induction include:

- 1. Prolonged gestation period more than normal (fetal anomalies).
- **2.** In some cases, causing risk to the dam in remaining the pregnancy (hydroallantois, bleeding).
- **3.** Premature rupture of the membranes, but labor does not start within an exact time.
- **4.** Fetal death (mummification and maceration) and previous history of stillbirth.
- **5.** Twin pregnancy in large animals (equine).
- **6.** Diabetes, high blood pressure (especially in women).

Medication (using the hormones):

- 1. **Estrogen**: all species.
- **2.** PGF2α: Swine, cattle, and sheep
- **3.** Oxytocin: women, equine
- **4. Dexamethasone** (synthetic cortisol): all species, and takes 2 to 3 days

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Induction parturition in cow

- ▶ Dexamethasone + PGF₂ α : induces within 35±2 h., a high incidence of retained placenta. To avoid this problem, we have given estrogen before Dex.
- \triangleright PGF₂ α : works near term but may require long-acting or 2 doses, used to remove the mummified fetus.

Induction parturition in ewe

- \triangleright **Dexamethasone:** Parturition within 24 72 h, no retained placenta problem
- \triangleright Lutalyse (PGF₂α): best to abort before day 50, multiple injections to induce parturition near term + estrogen.

Induction parturition in sow

 \triangleright **PGF**₂α: Parturition within 29-48 h, PGF₂α followed by **oxytocin** 24 h later if delays in the next piglet born to decrease stillborn occur in large litters or after extended parturition.

Induction parturition in Mare

- > Oxytocin after day 320:
 - Problems:
- Foal may require extensive care in the first few weeks of life (lung immaturity).
- Little amount of the colostrum in the mare.

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