



# ANESTRUM

(Anestrus in dairy animals)

## Lecture 2

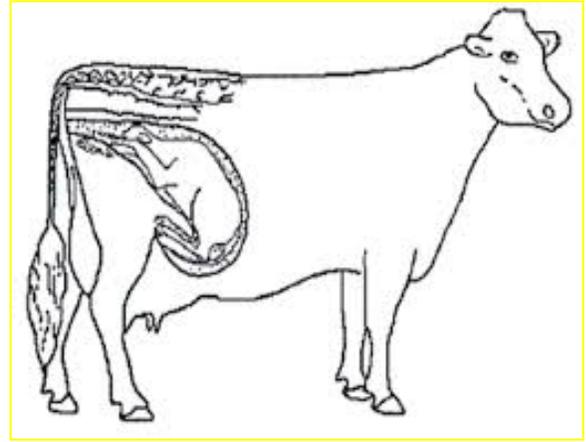
### False anestrus and its types



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❖ Anestrus due to pregnancy.



❖ Anestrus associated with CL of pregnancy that terminated early and not recognized

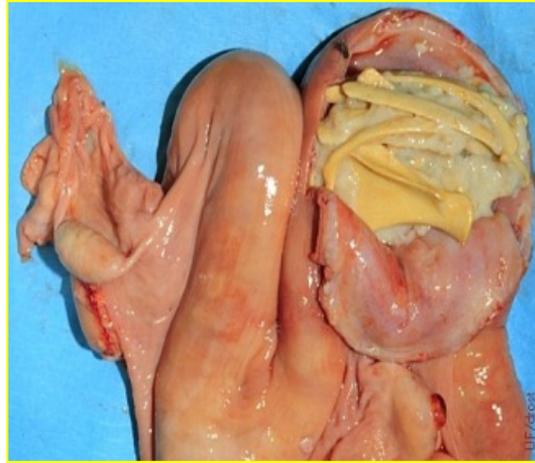


# False Anestrus

❖ Anestrus due to persistent CL – Conditions associated with uterine pathology such as pyometra, mummified fetus, fetal maceration, other disease states, mucometra and hydrometra.



Mummified Fetus



Fetal Maceration



Hydrometra



Pyometra

**ANESTRUS DUE TO PERSISTENT CORPUS LUTEUM (PCL):**

The follicular growth proceeds through all the developmental stages

↓  
undergo ovulation

↓  
CL formation

↓  
enter into anestrus due to failure of luteal regression.

*absence of estrogenic dominant follicle at the time of luteal regression*

**Note:** Persistent CL does not occur in the presence of a normal non pregnant uterus.

Many veterinarians tend to call wrongly a cyclic CL as persistent CL

**SUBESTRUS/SILENT ESTRUS/QUIET OVULATION:**

Characterized by failure of overt symptoms of estrus



Follicular development and ovulation occurs without the manifestation of overt signs of estrus.



common during the post pubertal period in heifers and early in high yielding dairy cows.

Progesterone secreted from regressing CL of previous cycle potentiates the action of estrogen and seems to favour the manifestation of estrus in next cycle

## SUBESTRUS/SILENT ESTRUS/QUIET OVULATION:

### Etiology:

- ✓ Physiological basis is not known - may be due to a lack of estrogen and a potentiating action of progesterone.
- ✓ Unobserved estrum may be due to managerial deficiencies and short period of estrus.



**Managemental error:**

- ✓ Farmer/herdsman unnoticed the estrus sign exhibited by the animal
- ✓ It's a manmade error even though from animal side everything is normal

- ✓ False anestrus
- ✓ Pregnancy
- ✓ Anestrus due to persistent CL
- ✓ Subestrus/silent estrus/quiet ovulation

**Causes**

*Thank you*