

CYSTIC OVARIAN DEGENERATION LESSON-3

Presented by

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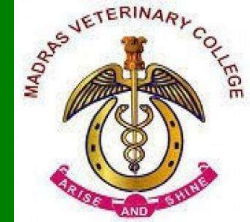
Objectives- Lesson III

- Signs and symptoms of luteal cyst
- Diagnosis



Signs and symptoms Luteal cyst

- **Prolonged Anoestrus**
- **Erratic changes in milk production**
- **Rough dry hair coat**
- **Nervous tension**
- **Disturbed feeding and rumination**
- **Progressive emaciation**



Diagnosis

HISTORY AND CLINICAL SIGNS

FOLLICULAR CYST:

- Relaxation of vulva and perineum
- Nymphomania
- Irregular estrous cycle
- Sterility hump
- Tougher, more tenacious and opaque vaginal mucous with a mucopurulent appearance
- High milk yield
- Adrenal virilism

LUTEAL CYST:

- Prolonged Anoestrus
- Erratic changes in milk production
- Rough dry hair coat
- Nervous tension
- Disturbed feeding and rumination
- Progressive emaciation



Diagnosis

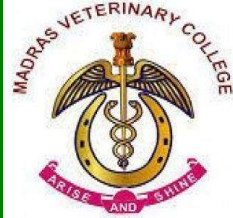
RECTAL EXAMINATION

FOLLICULAR CYST

- External os of the cervix- large and highly relaxed
- Turgid uterus with doughy consistency
- Single or multiple (common)
- Enlarged, thin walled fluid filled follicular structures
- Voluminous cervical discharge
- Chronic cases- accumulation of mucus with debris

LUTEAL CYST:

- Single
- Enlarged ovary
- Thick walled structure
- Flaccid uterine horns
- Closed cervix



Diagnosis

ULTRASONOGRAPHIC EXAMINATION

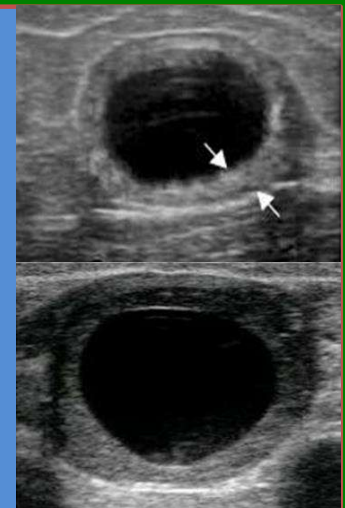
FOLLICULAR CYST:

- Anechoic fluid filled cavity
- Diameter > 2.5 cm
- Wall Thickness- < 3 mm
- Swiss cheese appearance



LUTEAL CYST:

- Single
- Enlarged ovary
- Thick walled structure
- Flaccid uterine horns
- Closed cervix





Diagnosis

PROGESTERONE CONCENTRATION

FOLLICULAR CYST:

Serum P_4 : <1 ng/ml
Serum E_2 : 13.3 pg/ml

LUTEAL CYST:

Serum P_4 : ≥ 1 ng/ml
Serum E_2 : <10 pg/ml

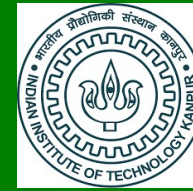
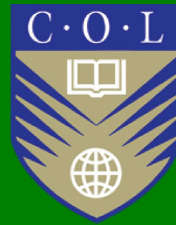
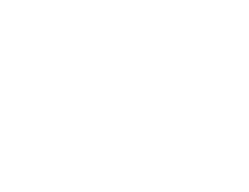
PROGNOSIS

**Most of the cases, recovery is not assured until the cows are pregnant.
More number of treatments required in some cases**

Earlier diagnosis	Better
Minimum number of cysts	Better
Single ovarian follicular cyst	Better
Hereditary causes	Better, Spontaneous recovery
Incidence of daughters with cystic ovaries	Poor
Severe cystic degeneration of endometrium and atrophy of the uterus in hydrometra/ mucometra	Poor
Rare cases of muco-cervix	Poor

So far we discussed....

- Signs and symptoms of luteal cyst
- Diagnosis
 - History and clinical signs
 - Rectal examination
 - Ultrasound examination
 - Serum progesterone concentration
- Prognosis



Thank you

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