

CYSTIC OVARIAN DEGENERATION LESSON-5

Presented by

**Dr. K. Krishna Kumar, Ph.D.,
Professor and Head**

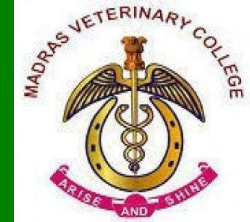
**Department of Veterinary Gynaecology and Obstetrics
Madras Veterinary College, Chennai - 600 007
Tamil Nadu Veterinary and Animal Sciences University
Tamil Nadu, India**

Objectives- Lesson V

➤ Treatment continue.

➤ Prevention

➤ Summary



Treatment

FOLLICULAR CYST AND LUTEAL CYST

Progesterone and prostaglandin based protocols

Day1: CIDR/PRID/P₄ sponges insertion

P₄ absorption from devices

Suppression of gonadotropin release

Day8: Administration of PGF_{2α}

Lysis of CL or Luteinized cyst

Day9: Sudden withdrawal of P₄ devices

Surge of gonadotropin release

Emergence of new follicular wave

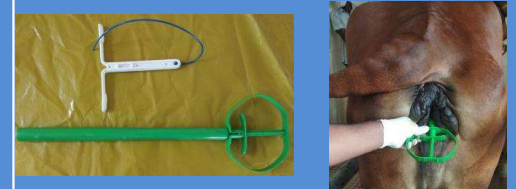




Progesterone based treatment protocols

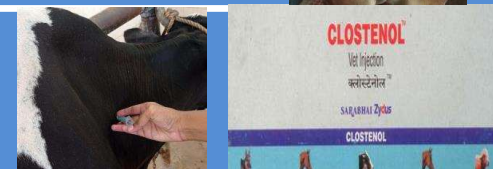
DAY 0

Insertion of CIDR+ Buserelin Acetate (20 μ g)



DAY 8

Cloprostenol (500 μ g)



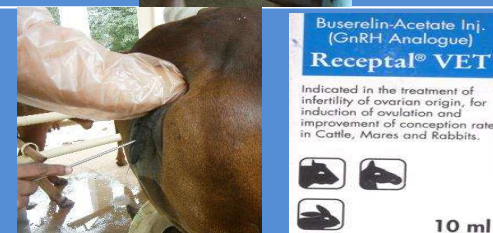
DAY 9

Withdrawal of CIDR



Day 11

FTAI with Buserelin Acetate(10 μ g)



Day 12

FTAI

Day 45 post AI

Pregnancy diagnosis



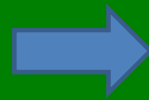
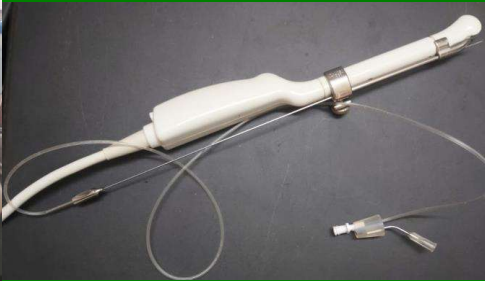


Irresponsive follicular cyst

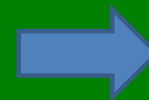
Ultrasound guided trans-vaginal follicular cyst aspiration technique



Ultrasound guided trans-vaginal probe with needle



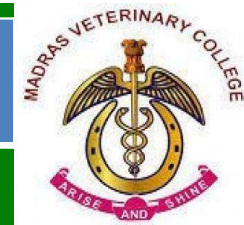
Follicular cyst aspiration technique



Aspirated fluid from cystic follicle (yellow to amber coloured, if bleeding occurs –pink coloured)



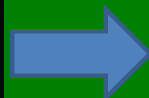
Ultrasound guided trans-vaginal follicular cyst aspiration technique (contd...)



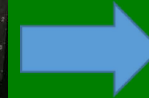
Intact cystic follicle in ovary



Follicular cyst aspiration



Collapsed cyst after fluid aspiration



Emergence of new follicular wave



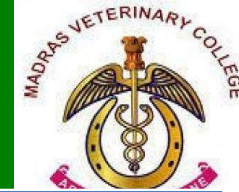
Pregnancy diagnosis at 45 days



Repeat AI



GnRH with first AI



Treatment response

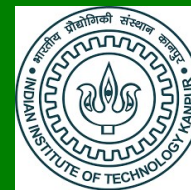
	FOLLICULAR CYST	LUTEAL CYST
<i>INCIDENCE</i>	5-45% 14% of all cows develop cysts in life	
<i>RECOVERY CHANCES WITHOUT TREATMENT</i>	30-70%	
<i>TREATMENT RESPONSE WITH HORMONAL THERAPY</i>	60-70%	70-80%
<i>TREATMENT RESPONSE WITH FOLLICULAR FLUID ASPIRATION TECHNIQUE</i>	30%	-----



Prevention and control



- Culling and Selective Breeding
- Rationale use of Hormones
- Implementation of synchronisation technique during post-partum period
- Reducing the length of postpartum negative energy balance period
 - Balanced feeding
 - ✓ Adequate concentrate feeding
 - ✓ Green fodder
 - Maximizing dry matter intake and reducing protein content in diet
 - Minimizing the occurrence of metabolic diseases.



Thank you

Contact:

Dr. K. Krishna Kumar, Ph.D.,
Professor and Head

Department of Veterinary Gynaecology and Obstetrics
Madras Veterinary College, Chennai - 600 007
Tamil Nadu Veterinary and Animal Sciences University
Tamil Nadu India

Mobile: +91 9443220975

Email: krishnakumar.k@tanuvas.ac.in