



REPEAT BREEDING SYNDROME IN COWS

Lecture 4

Treatment of fertilization failure

Content Creator

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Treatment

- **Sexual rest**
- **Double AI at an interval of 24 hours to tackle delayed ovulation**
- **Double AI at an interval 24 hours + hCG/GnRH – intramuscularly at the time of first AI**



- **Post insemination antibiotic therapy**
 - If it is intra-uterine route, the interval between the antibiotic therapy and AI should be at an interval of 6 – 8 hours
 - As far as possible, avoid intra-uterine antibiotic therapy and give antibiotics parentally
 - The antibiotic may be Streptopenicillin, Ampicillin, Amoxicillin, Ceftriaxone, Ceftiofur, Cefuroxime + Sulbactam etc.,
 - Parental antibiotics can be given at the time of AI



- Progesterone: 500 mg can be administered at day - 4th / 5th post AI
- Day - 6th/7th post AI or day - 14th, hCG/GnRH can be given to produce accessory corpus luteum to increase the progesterone secretion
- Vitamin-AD₃E is administered on day – 7th / 14th post AI to avoid oxidative stress causing Early Embryonic Death.



- Inj. E-care se (vitamin-E with selenium) can be given on day 7th / 14th / later to avoid oxidative stress
- Inj. Flunixin meglumine is given on day – 14th post AI to avoid the secretion of $\text{PGF}_2\alpha$ from uterine endometrium and prevent embryonic death. Flunixin has got anti-luteolytic effect. One dose can be given on day – 14th to avoid $\text{PGF}_2\alpha$ secretion



- During post AI, CIDR / TRIU-B / PRID can be inserted in the vagina 7 days after AI and is kept in the vagina for about 11 – 13 days. It will prevent the Early Embryonic Mortality by supplementing progesterone



- In case of endometritis causing Repeat breeding syndrome, uterus may be treated with Antiseptics such as Lugol's Iodine or povidone Iodine
- In Repeat breeder cows, uterine infection is treated parentally for 3 days from onset of oestrus



THANK YOU