

REPEAT BREEDING SYNDROME IN COWS

Lecture 1

Introduction, synonyms, definition, prevalence, economic importance, etiology and classification

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Synonyms

- Cyclical non-breeders
- Repeaters
- Repeat breeders



Definition

- Bred two or more times
- Good quality semen or bred by a fertile bull
- Failed to conceive
 - Normal estrous cycles - 21 days
 - Free from palpable abnormalities
 - Normal vaginal discharges
 - Positive energy balance
 - Calved atleast once
 - Less than 10 years old



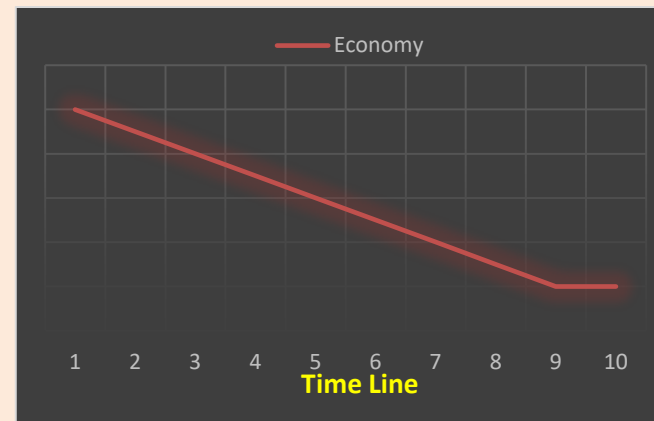
Prevalence

- **Crossbred cows (17.57%)**
- **Buffaloes (12.74%)**
- **Indigenous cows (8.64%)**
- **30.4%** of cattle and buffaloes were culled mainly due to infertility



Importance in economy

- Breeding costs
- Treatment costs
- Feeding costs
- Labor costs





Etiology

Casida and co-workers classification

- Fertilization failure
- Early embryonic death



Zemjanis and Roberts classification

- Congenital or genetic anatomical defects of the reproductive tract in cows
- Congenital or genetic acquired defects of sperm, ovum and zygote
- Infectious or traumatic inflammatory causes (processes)
- Endocrine dysfunction
- Managerial causes and nutritional deficiency



Summary of Day 1 Lecture

- **Synonyms**
- **Definition**
- **Etiology**
- **Classification**

THANK YOU