

# **ESTRUS SYNCHRONIZATION**

## **Lecture 2**

**Principle, benefit, criteria for controlled breeding**

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# **ESTRUS SYNCHRONIZATION**

- **Regulation of estrous cycle of a group of animals**
- **Predetermined time**
- **Regulation of lifespan of CL.**
- **Shortening the luteal phase**
- **Artificial extension of luteal phase**

# **ESTRUS SYNCHRONIZATION**

- ❖ Prostaglandin based protocols**
- ❖ Progesterone based protocols**
- ❖ GnRH based protocols**

## **BENEFITS**

- ❖ **Better control of calving interval**
- ❖ **Group females for parturition**
- ❖ **Reduce time required for estrus detection**
- ❖ **Estrus detection with timed insemination**
- ❖ **Increased production with same number of cows**
- ❖ **Increased number of calves per cow**
- ❖ **Infertility**

## **CRITERIA FOR SUCCESSFUL CONTROLLED BREEDING**

### **Animal requirement**

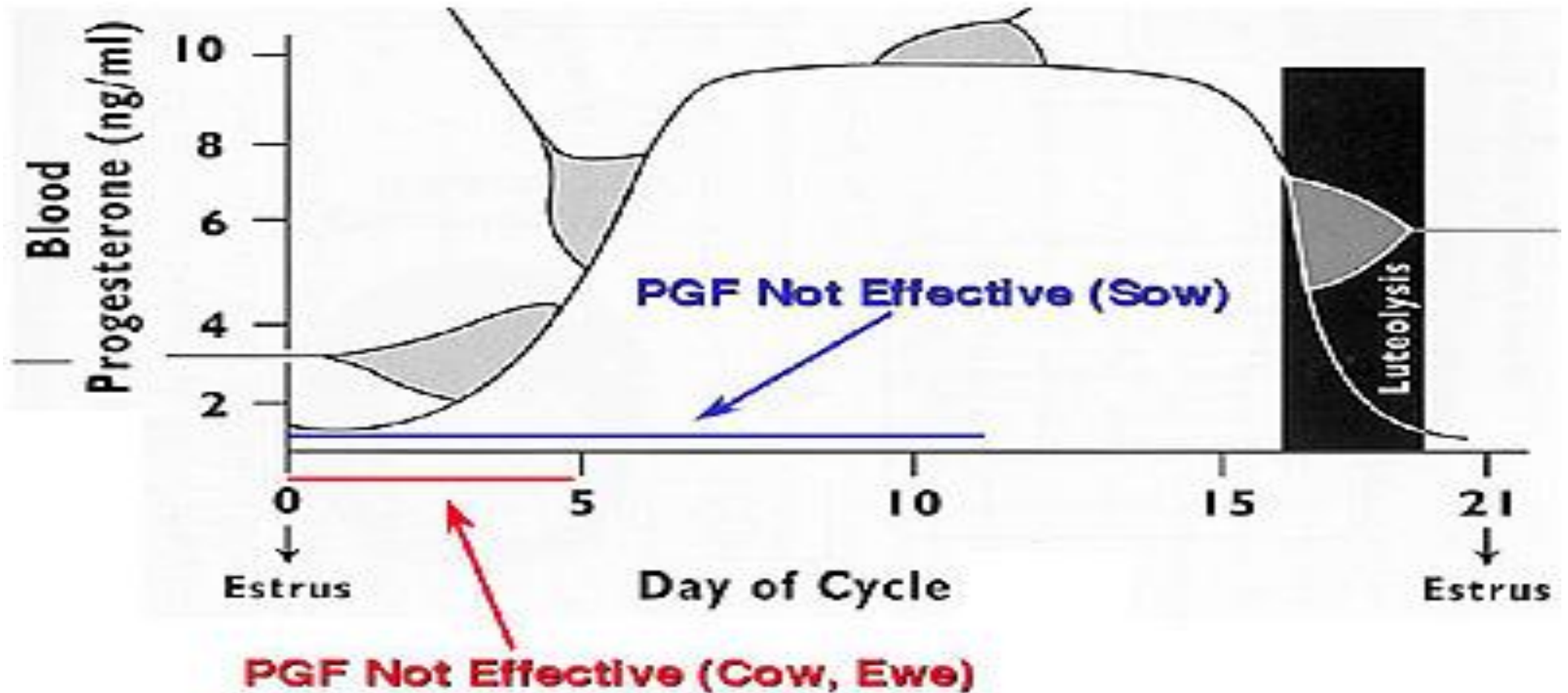
- Disease free**
- Heifer maturity**
- Adequate nutrition**
- Adequate postpartum interval**
- Normal non pregnant reproductive tract**
- For PGF<sub>2</sub> alpha -animal must be cycling**

# Management requirement

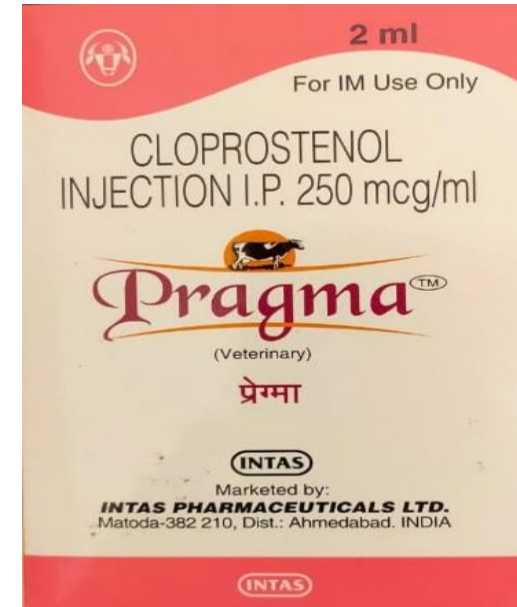
- **Proper timing**
- **Good semen quality**
- **Good AI technique**

# PROSTAGLANDINS

It will act only functional CL and not on initially developing or regressing CL

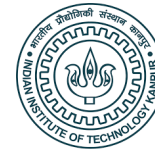


# Examples .....





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**THANK YOU**