Most Popular Recent Technologies in Goat Breeding

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Synchronization of Estrus

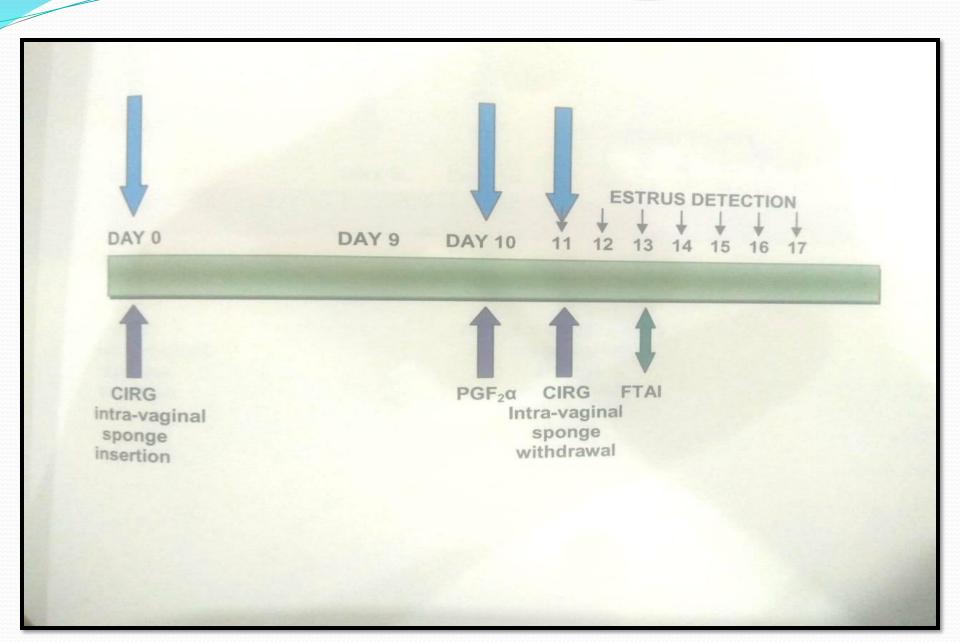
- 1) By killing the corpus luteum (CL) with PGF₂ alpha (PG).
- 2) By artificially extending the luteal phase with progesterone compounds.
- 3) It is possible to combine progestogen & PG treatment, the later being administered at sponge removal. This considerably shortens the progestogen treatment.

Insertion of intra-vaginal sponge(COURTESY OF CIRG, INDIA)

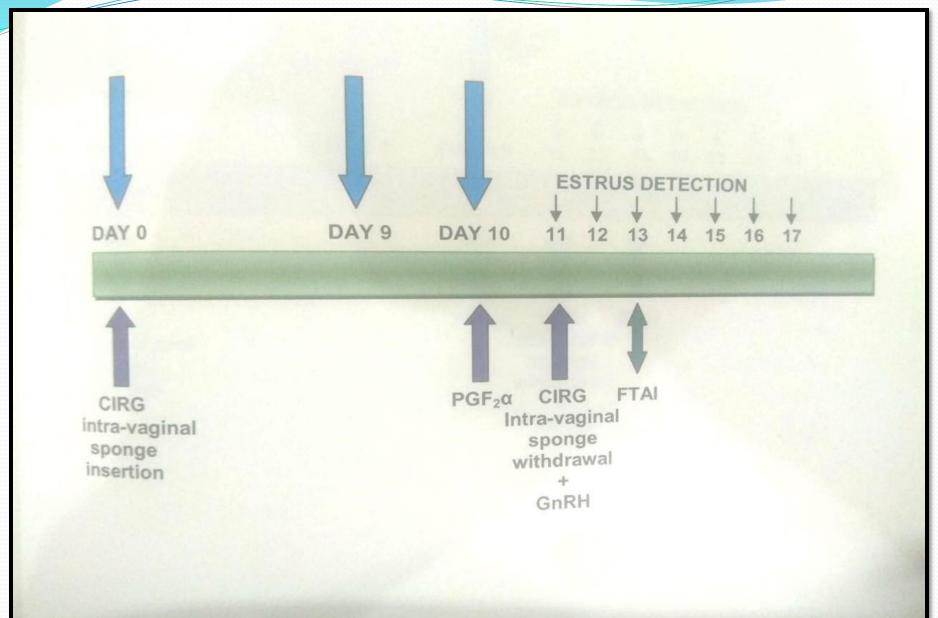




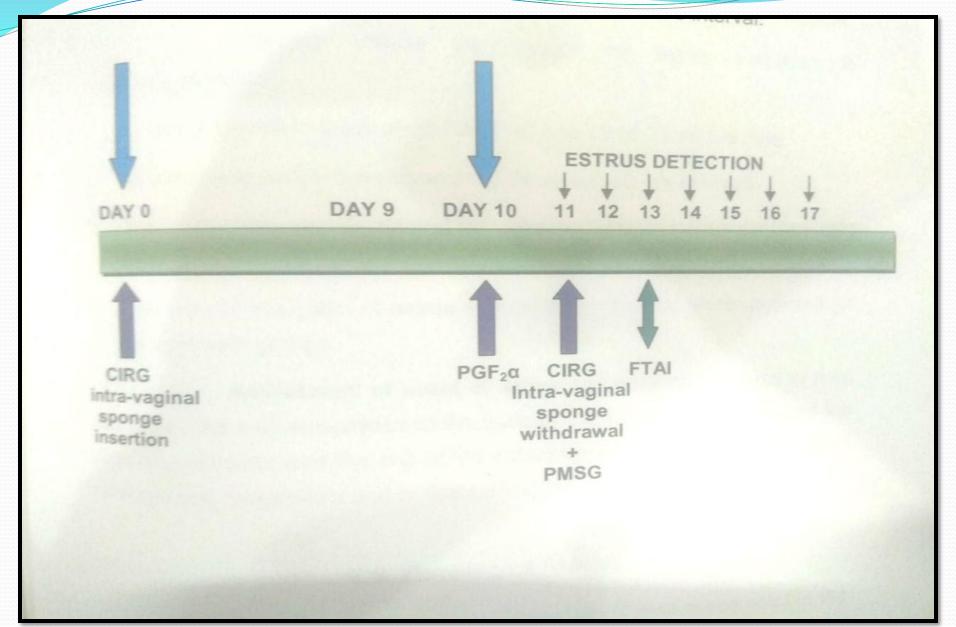
Different Protocols for synchronization



Different Protocols for synchronization

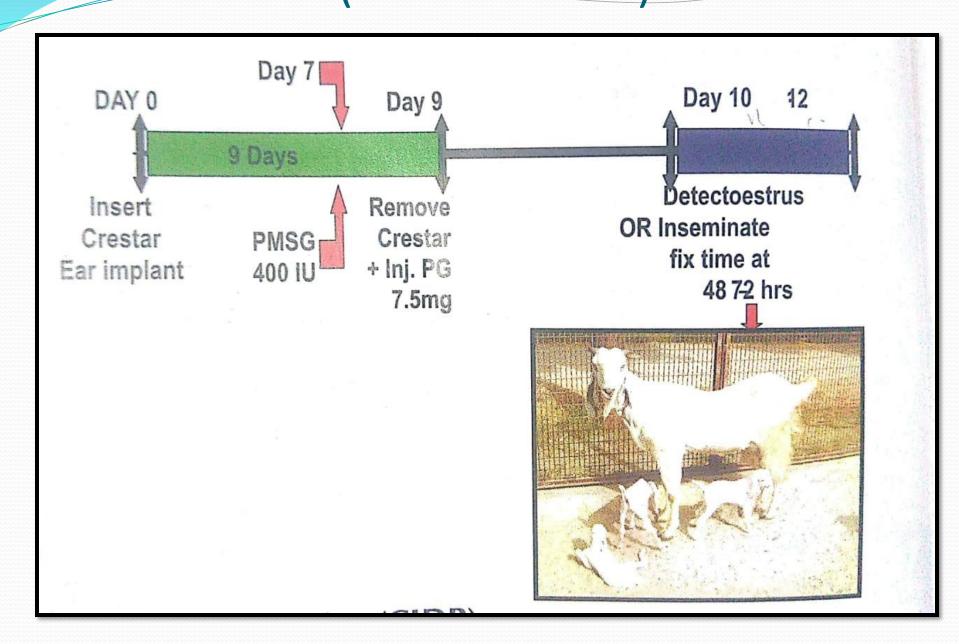


Different Protocols for synchronization



(Kharche et.al)

Difficient i rotocols for syficin offization



Some of the Protocols for synchronization used in olden days...

- 1.MGA @0.15mg /doe /day for 16 days.
 Extent of synchronization: 96.12% & estrus occurs within 4 days
- 2. MGA @0.15 mg/doe/day for 15 days + Veteoesterol(10mg) or PG, Estrus synchronization : 80 to 100 %.
- 3.Intravaginal pessaries for 15 to 20 days with or without Vetoestrol (5 to 10 mg) or Folligon (400IU).
 - Estrus synchronization: 100%.
- 4.Progesterone 12.5 mg/doe/day for 16 to 19 days + eCG (1000 TO 1500IU) S/C one day before completion of progesterone treatment. Estrus synchronization: 100%.

Effects of Photoperiod

- Goats are considered "short day breeders"
- Female goats are classified as seasonally polyestrus.
- In western countries, some goat dairies have the practice of exposing breeding goats to total darkness for 17 hrs/day after the beginning of month of June to induce early onset of cycling (Ott,1988).

Natural synchronization of estrus during breeding season

Isolate Does from intact males for six weeks prior to breeding season

Keep Vasectomized bucks with does for 4 days

Remove Vasectomized bucks

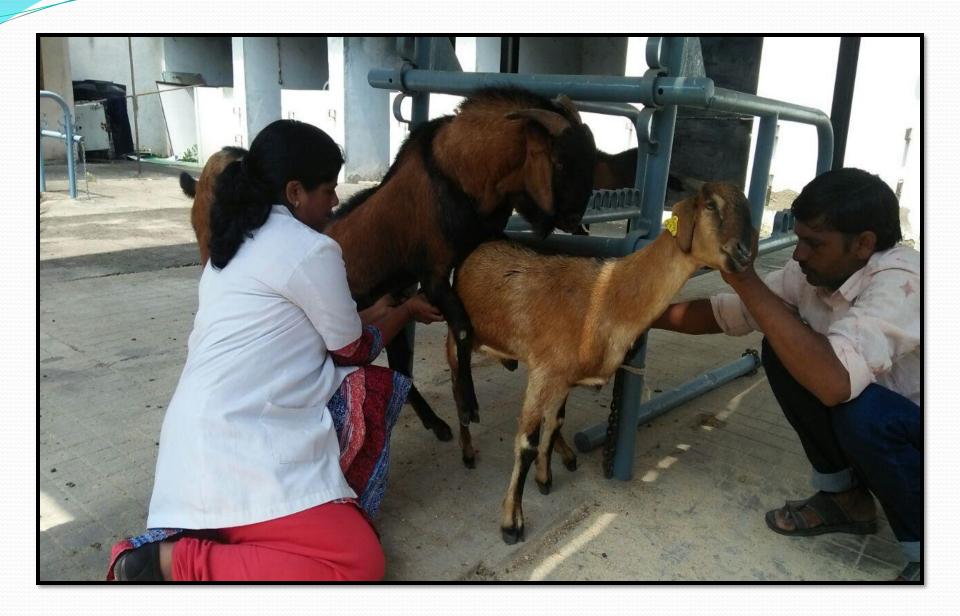
Replace with intact males

Cost Effective, No hormone use But not reliable

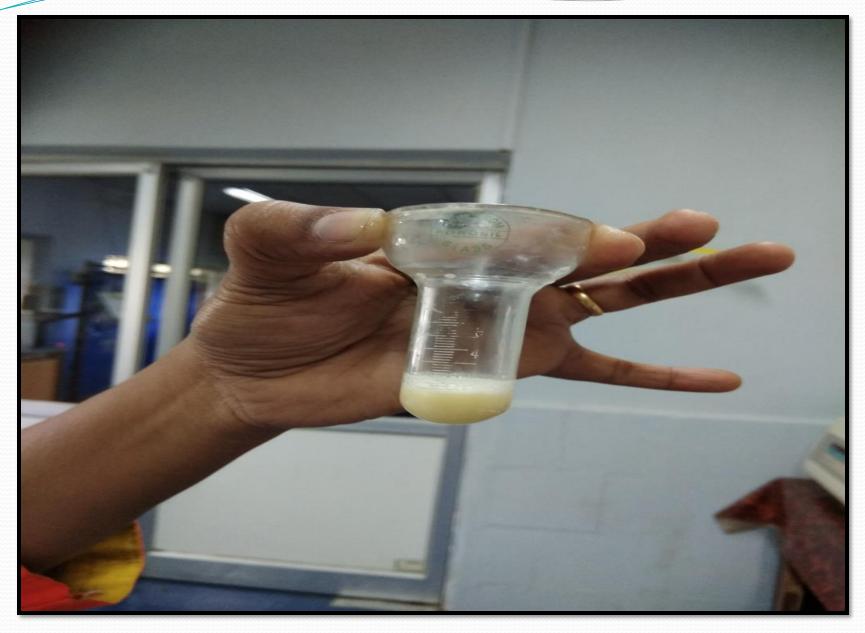
Semen collection Apparatus



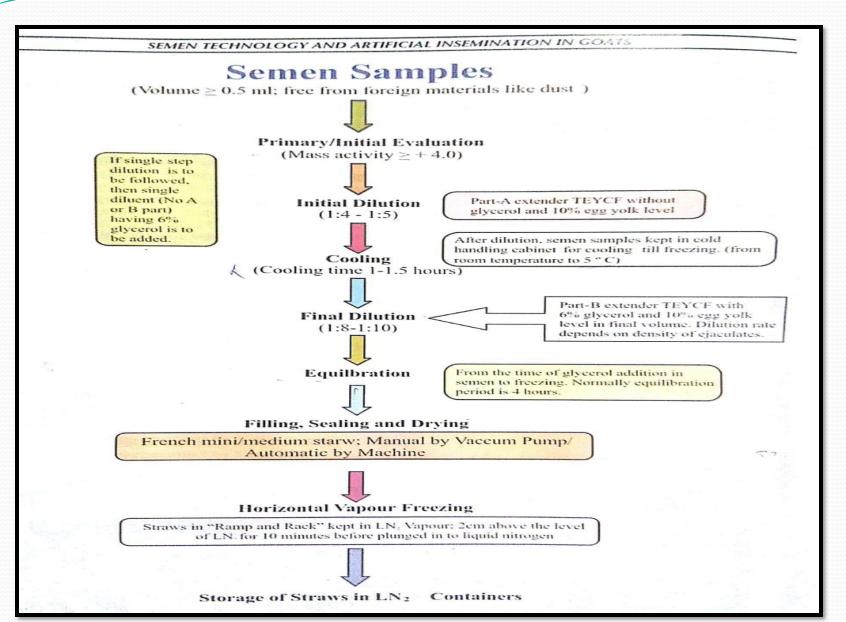
Buck Semen Collection



Semen Collected from Buck



Semen(Kharche et al., 2015)

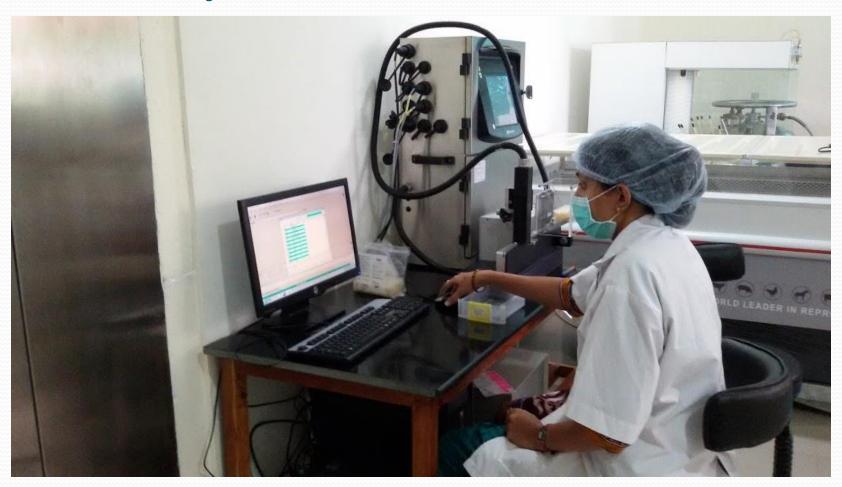


NARI, Phaltan.

Dilution of Sement-Courtesy of



Courtesy of NARI, Phaltan



Automatic Filling & Sealing Of Semen



Biological Freezer





Biological Freezer- semen straws are laid



Counting of Sperm Count through Accucell



Sperm Count through Accucell



Transfer of FROZEN STRAWS into LN2



Location of Cervix with Speculum



Location of Cervix



Al in Goat (courtesy of NARI)



Al in Goats



Cervical Insemination



