CVE – AGMOOCS - TANUVAS

ESTRUS SYNCHRONIZATION

Lecture 5

Progesterone protocols, synchronization of ovulation and summary

Content Creator

Dr. M. Selvaraju, Ph.D.,

Dean

Veterinary College and Research Institute, Namakkal 637 002

TANUVAS, Namakkal

drmselvarju1969@gmail.com; 8778121093

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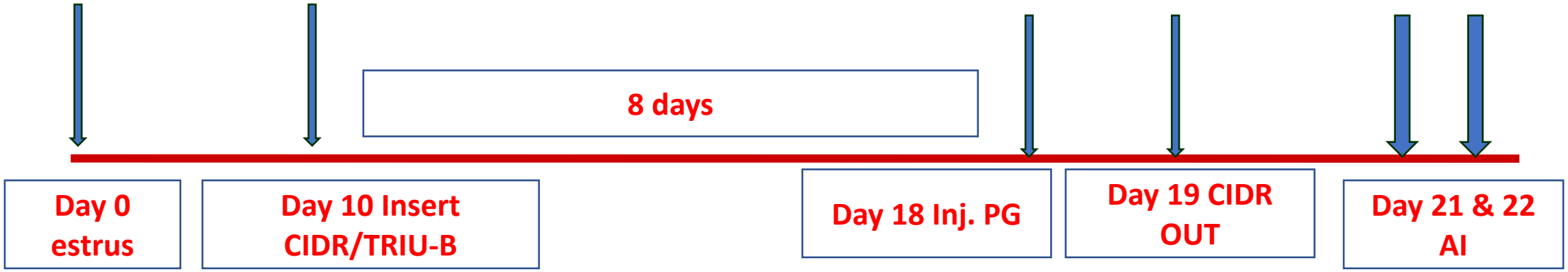
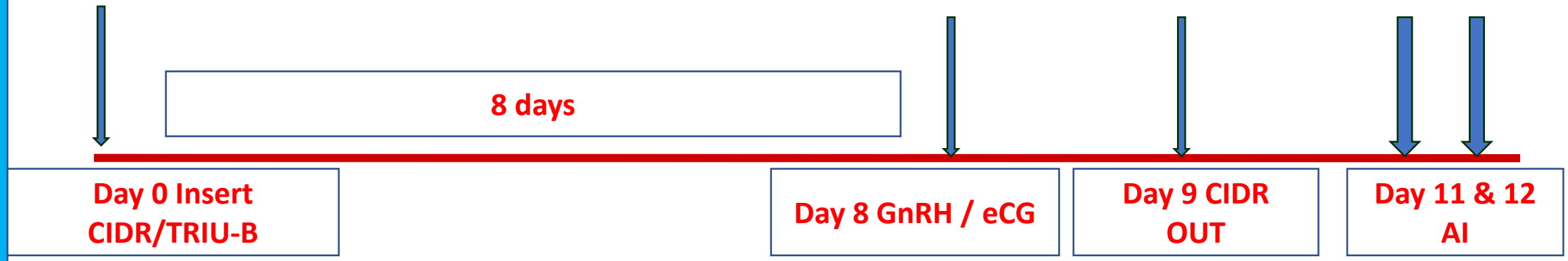
CIDR/TRIU-B & PGF2α



CIDR- B & $PGF_2\alpha$



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SYNCHRONIZATION OF OVULATION

Synchronization of ovulation

Ovsynch protocol

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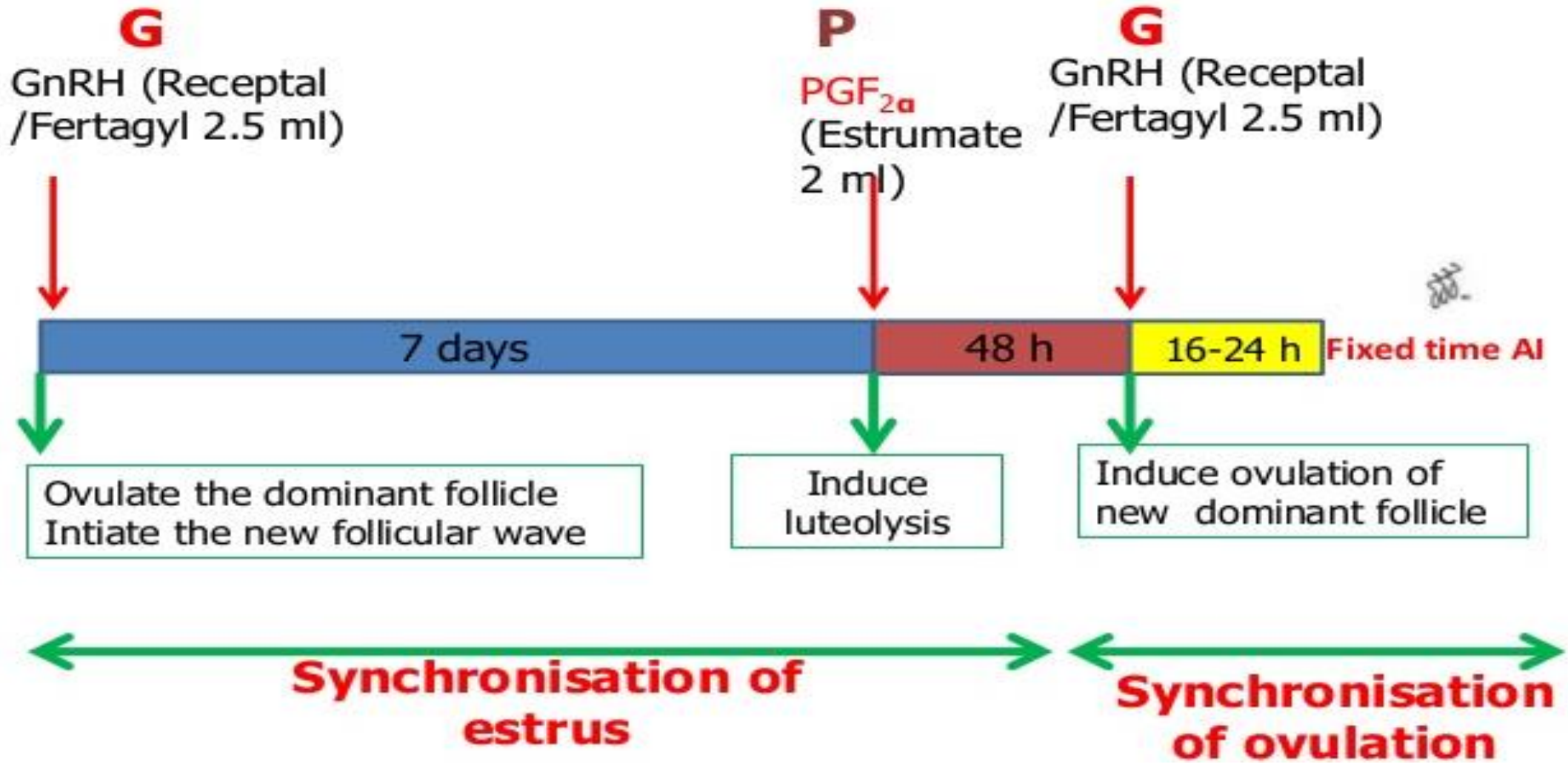
Ovsynch protocol (GPG)



Improvization in ovsynch

- ***"Presynch-Ovsynch":*** Presynchronization with PG is commonly used in dairy herds to ensure that cows are at the most appropriate stage of the oestrous cycle at the time of the first GnRH treatment.

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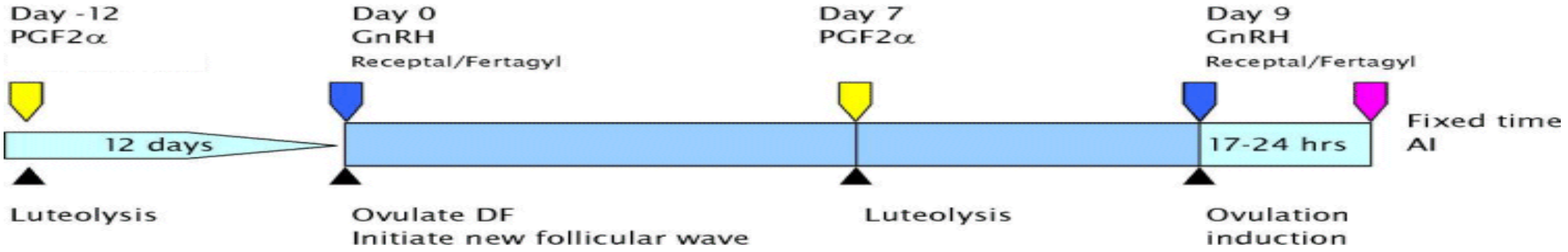
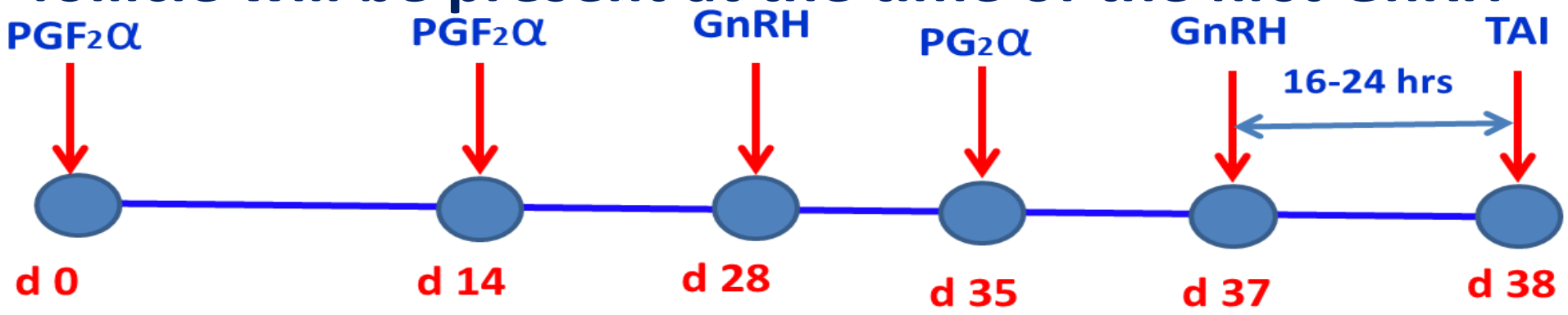


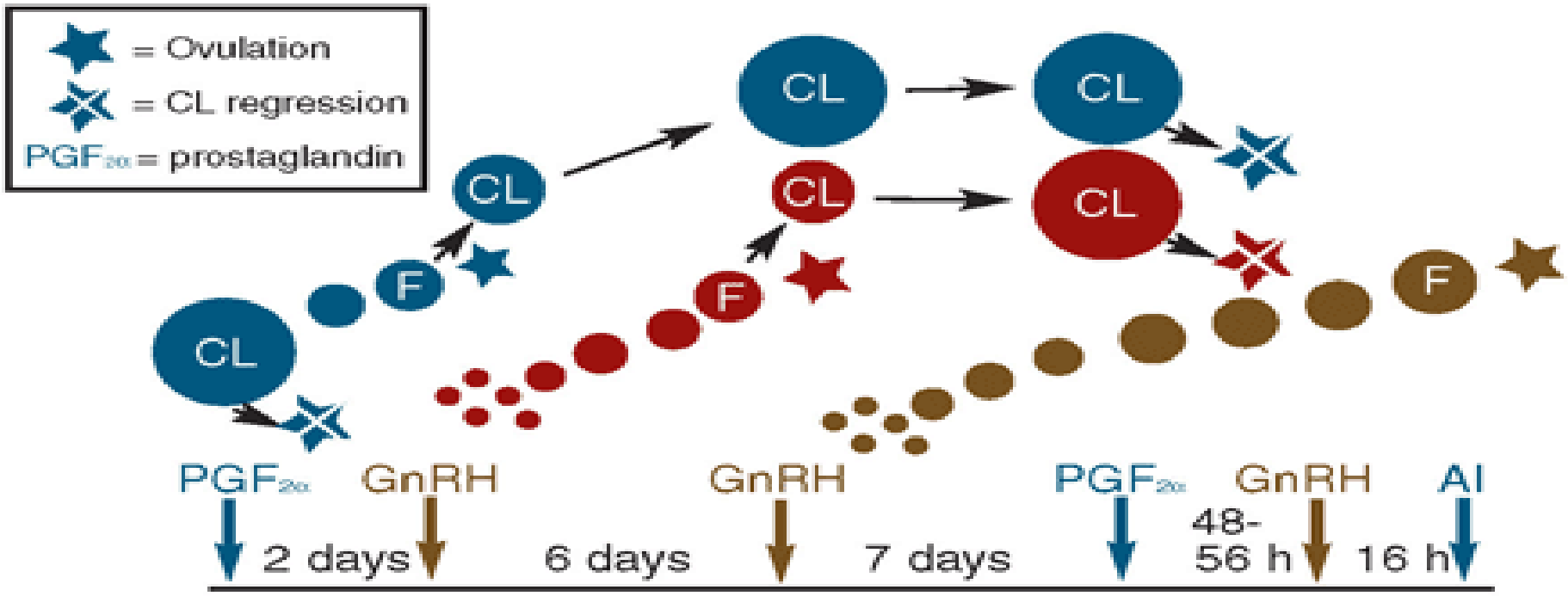
Pre-synchronization with 2 doses of PG, 14 days apart, and administration of the first GnRH 12 days after the second PG increase the probability that a LH-responsive follicle will be present at the time of the first GnRH



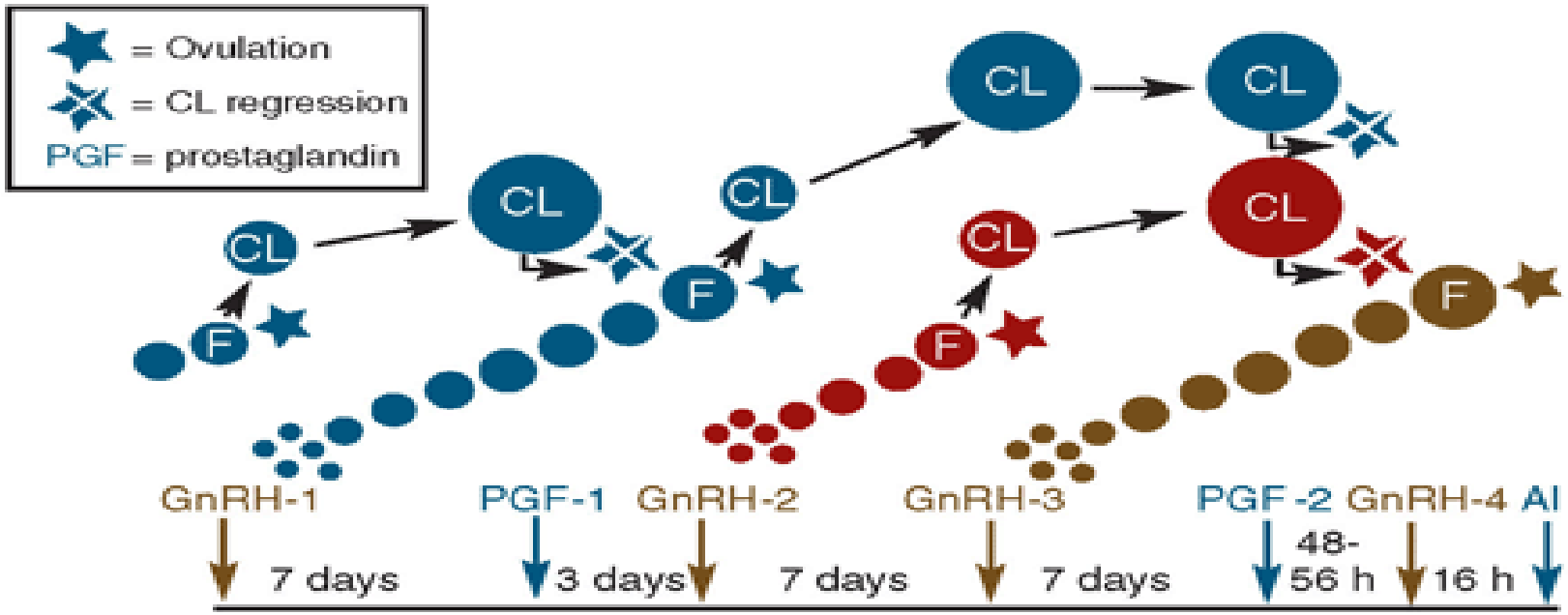
G6G

- ***"G6G":*** Animals were treated with PG, followed 2 days later with GnRH administered at 6 days before the first GnRH in the Ovsynch protocol.

(Bello *et al.*, 2006)



- ***"Double Ovsynch":*** Involves two Ovsynch protocols following one after the other, with the third GnRH treatment administered 7 days after the second.



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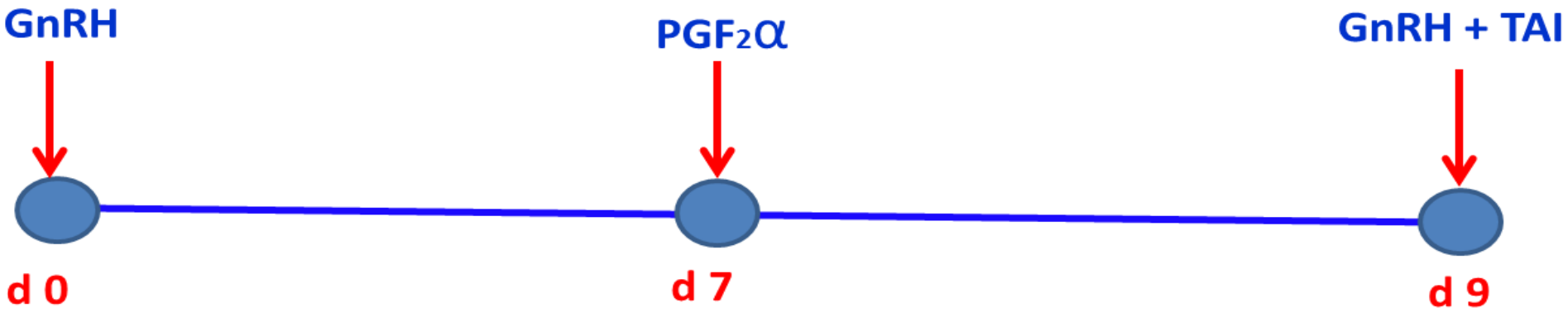
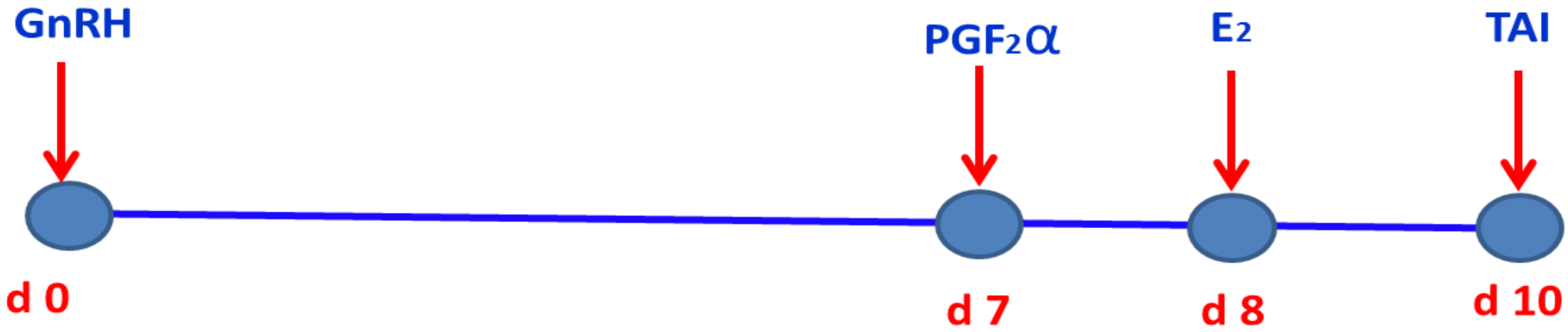
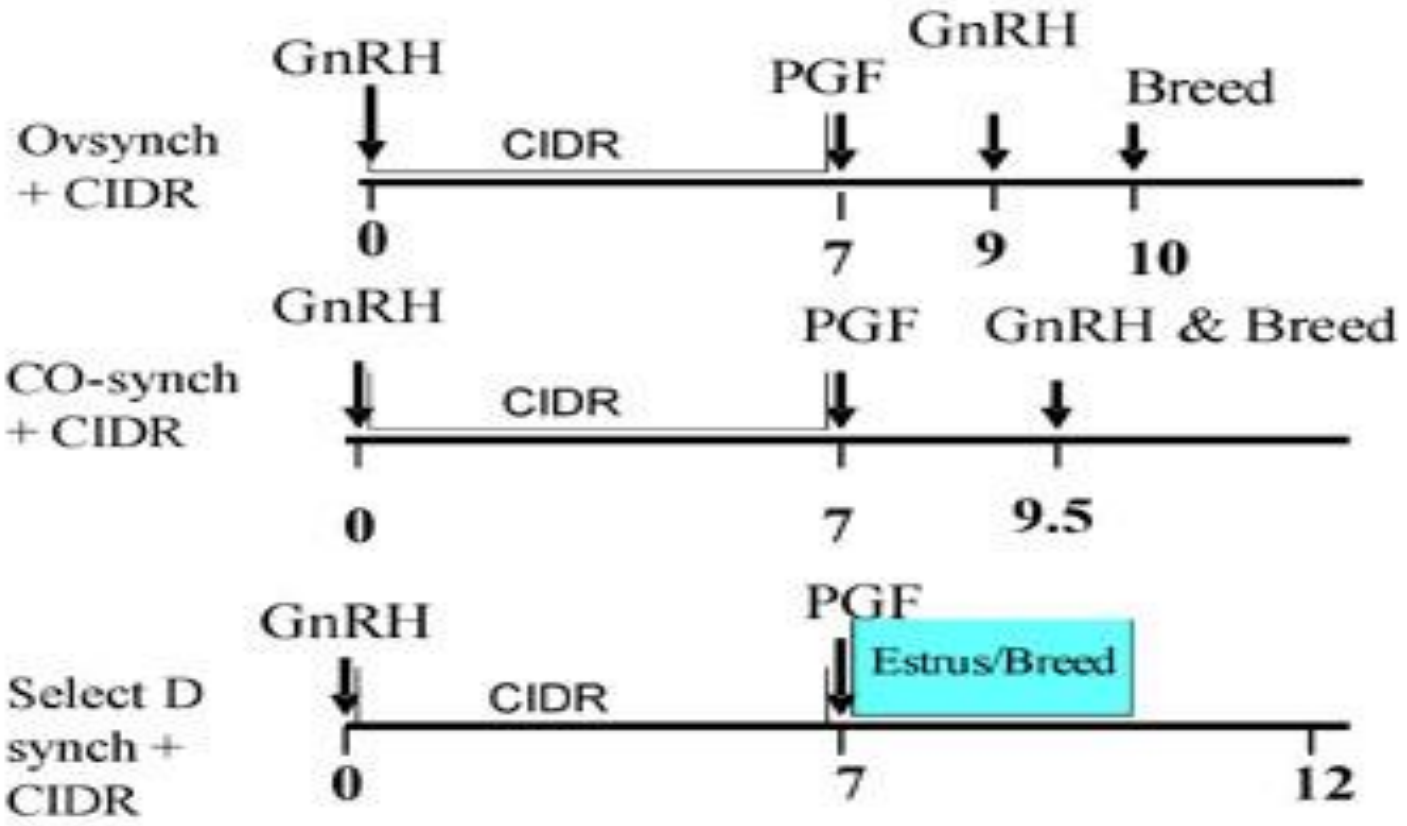
Cosynch protocol



Heatsynch protocol



CIDR protocols



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Infertility

- Repeat breeder
- Anestrus
- Cystic ovary

Summary

- Observe the cyclicity pattern of the animal
- Select the appropriate protocol: Prostaglandin for cyclic and Progesterone for cyclic and non-cyclical animals
- Ensure the ovulation by adding GnRH in the selected protocol
- Recommended to perform two AI at 24 hrs interval in controlled breeding protocol

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THANK YOU