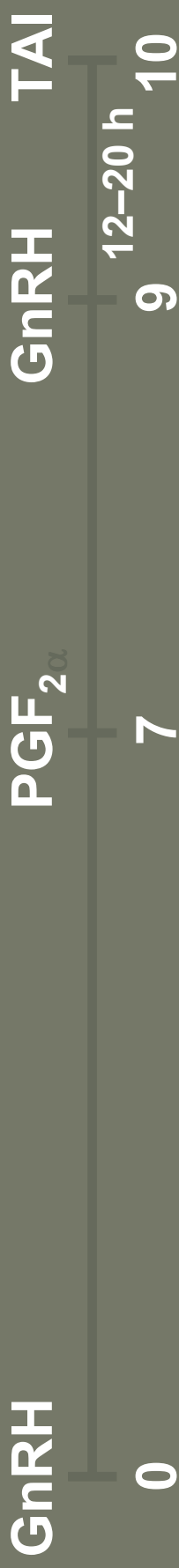




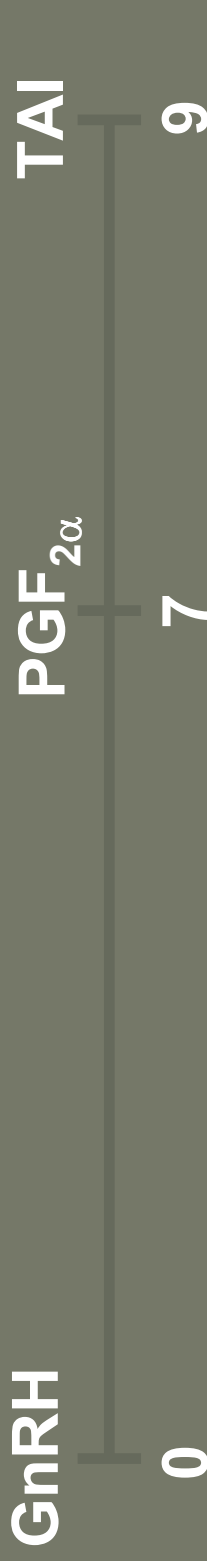
Programs Based on Timed AI

Programs Based on Timed AI

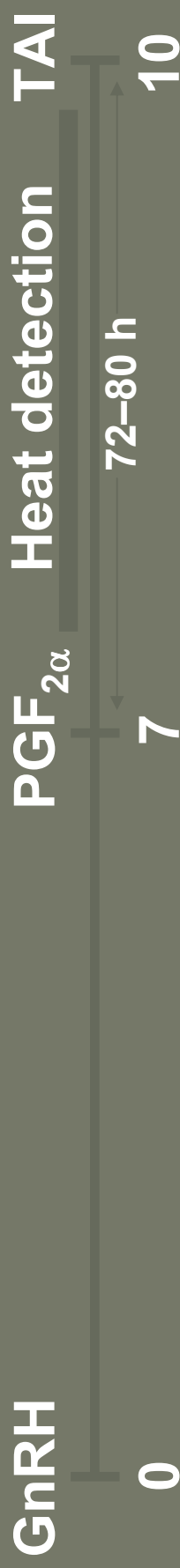
Ovsynch



Cosynch



Hybrid Synch



Ovsynch versus Cosynch

- Timed insemination at GnRH injection (Cosynch) or at 24 h later did not differ in beef cows with calf removal (63% vs 61%) or without calf removal (54% vs 52%; Geary et al., 2001).
- In 1998, Pursley et al. inseminated cows at 0, 8, 16, 24, or 32 h after GnRH. Results indicated a quadratic effect with higher fertility at 16 h.
- DeJarnette et al. (2003) did not observe differences between lactating dairy cows TAI 12 h after GnRH (Ovsynch) or TAI at GnRH injection 60-64 h after PGF_{2α} (29% vs 22%).
- No statistical differences in calving rates were observed by Vasconcelos et al. (2000) when lactating dairy cows were TAI at 0 h compared to 24 h after GnRH (20.3% vs 26.0%).

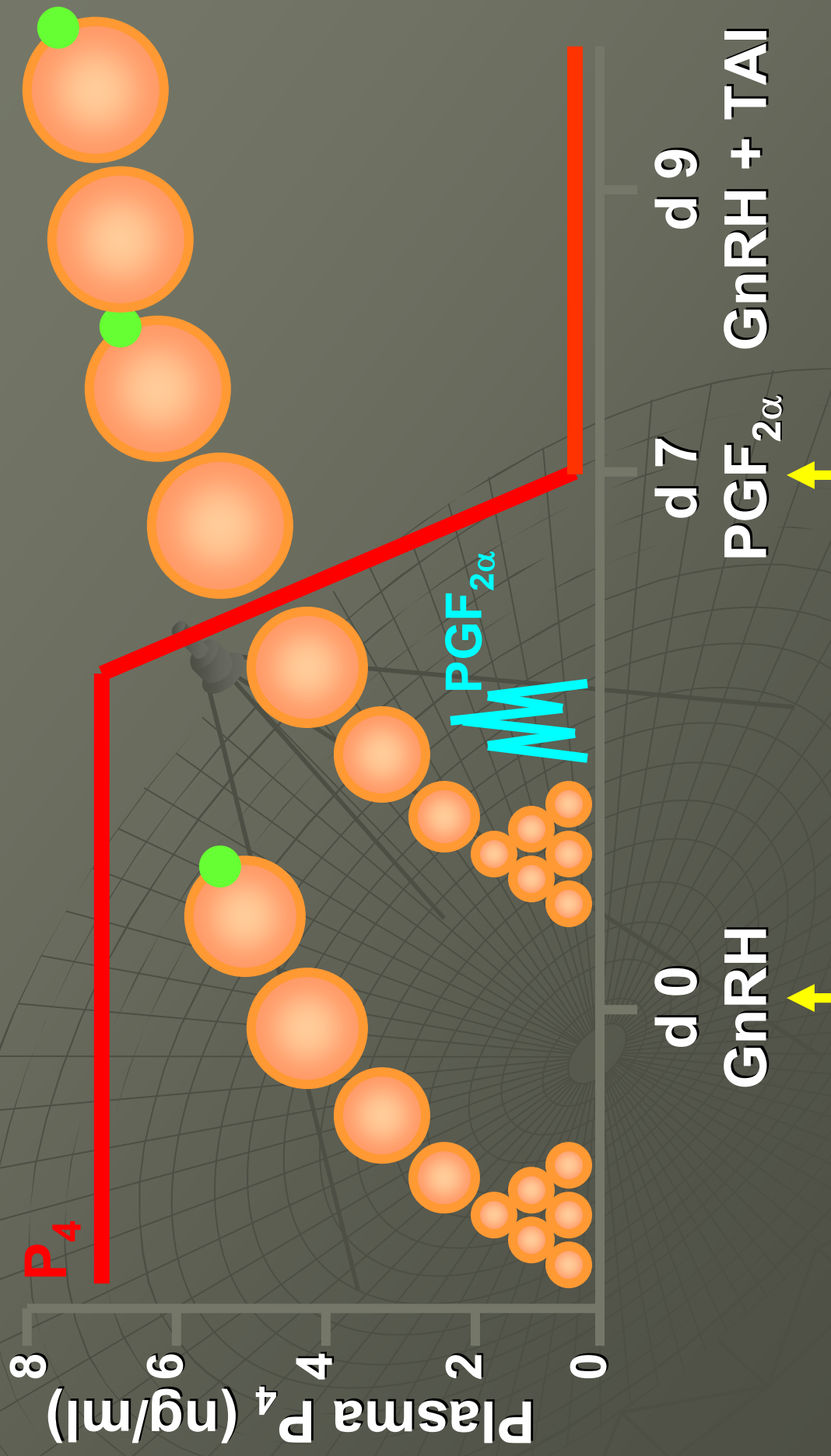
Cosynch with CIDR

Insert
CIDR[®]
+
GnRH
↓
Day 0

Inject with
LUTALYSE[®]
+
Remove
CIDR[®]
↓
Day 7

GnRH
+
AI
↓
Day 9

Initiation of the Cosynch protocol at late diestrus (d 13 to d 17 of the estrous cycle)



CIDR

Effect of CIDR on Ovsynch in Lactating Dairy Cows

Ovsynch
+ CIDR

No. of Cows 91

Pg Rate @
28 D Post AI 62.5%

Pg Rate @
56 D Post AI 50.0%

Ovsynch

93

35.8%

20.5%

Effect of CIDR on Ovsynch in Lactating Dairy Cows

Status	N	Ovsynch	Ovsynch + CIDR
Cyclic	477	35%	43%
Anestrus	154	22%	36%
Total	631	32%	42%

NC113 Project, personal communication

Pregnancy Rates in Beef Cows and Heifers Submitted to Cosynch (Control) or Cosynch with CIDR (CIDR)

Reference	Pregnancy Rates				
	N	Control	CIDR	Diff.	
1) Lamb et al., 2001. JAS 79:2253.	460	48%	58%	10%*	
2) Martinez et al., 2002. JAS 79:2563.	204	52%	65%	13%	
3) Stevenson et al., 2003. JAS 81:571.	183	61%	66%	5%*	
	Exp. 3	596	46%	55%	9%*

* Difference was statistically significant

Reference 2: control were fed MGA form day 0 to 6

Reference 3, Exp. 3: controls were fed MGA for 14 d and initiated Cosynch 12 d later

- In lactating dairy cows, pregnancy rates were greater for Ovsynch with CIDR (44%, n=91) compared to Ovsynch alone (20%, n=80) as reported by El-Zarkouny et al., in 2000 (JAS 78(1):217 [Abstr.]

Pregnancy rates of beef cows according to cyclic status (cyclic or anestrus) and premature CL regression

	Cosynch	Cosynch+CIDR
Anestrus	39% (22/56) ^a	59% (36/61) ^b
Cyclic	58% (65/112)	58% (71/122)
Cyclic (premature CL regression)	43% (26/60) ^a	79% (31/39) ^b

Lamb et al., 2001

^{a,b} P < 0.05

Hybrid Synch with CIDR

