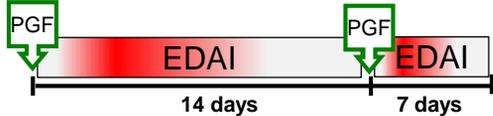


# Dairy Heifer Synchronization Protocols - 2016

## AI after detection of estrus

### 2xPGF



#### Comments: 2XPGF

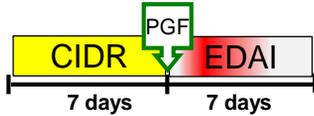
Approximately 70% of heifers should be in estrus during 14 days after the first PGF. Remaining heifers should be in estrus after the second PGF. Non-responding heifers may be prepubertal.

#### Definitions and comments:

**EDAI** = estrous detection and AI after detection of estrus.  
**PGF** = prostaglandin F<sub>2α</sub>.  
**CIDR** = Controlled internal drug release intravaginal insert containing progesterone.  
**GnRH** = gonadotropin-releasing hormone.  
**Intensity of red color within EDAI** denotes periods to expect most heifers in estrus. Most heifers come into estrus 2 to 5 days after PGF.

### CIDR-PGF

**Option 1**  
 (PGF at CIDR removal)

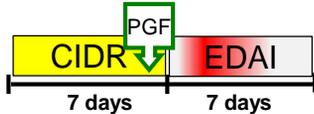


#### Comments: CIDR-PGF

Approximately 70% of heifers should be in estrus during 7 days after CIDR removal. Non-responding heifers may be prepubertal. Option 2 improves the synchrony of estrus. CIDR-based programs may induce fertile estrus in some heifers that are prepubertal at start of treatment.

### CIDR-PGF

**Option 2**  
 (PGF at 1 day before CIDR removal)

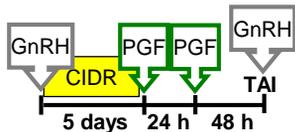


## Programs for Timed AI (TAI)

#### Comments: 5dCIDR\_Cosynch72

Option 1 yields greater conception rate to TAI than option 2.

**5dCIDR\_Cosynch72**  
 (2 PGF) Option 1



**5dCIDR\_Cosynch72**  
 (1 PGF) Option 2



## Calendars



### AI after detection of estrus

#### 2xPGF

S	M	T	W	R	F	S
	PGF	EDAI	EDAI	EDAI	EDAI	EDAI
EDAI						
EDAI	PGF	EDAI	EDAI	EDAI	EDAI	EDAI
EDAI	EDAI					

#### CIDR-PGF - Option 1

S	M	T	W	R	F	S
	CIDR	CIDR	CIDR	CIDR	CIDR	CIDR
CIDR	PGF	EDAI	EDAI	EDAI	EDAI	EDAI
EDAI	EDAI					

#### CIDR-PGF - Option 2

S	M	T	W	R	F	S
		CIDR	CIDR	CIDR	CIDR	CIDR
CIDR	PGF	EDAI	EDAI	EDAI	EDAI	EDAI
EDAI	EDAI					

### Timed AI (TAI)

#### 5dCIDR\_Cosynch72 Option 1

S	M	T	W	R	F	S
			GnRH	CIDR	CIDR	CIDR
CIDR	PGF	PGF	EDAI	EDAI	EDAI	EDAI
EDAI	EDAI					
						TAI

#### 5dCIDR\_Cosynch72 Option 2

S	M	T	W	R	F	S
			CIDR	CIDR	CIDR	CIDR
CIDR	PGF	EDAI	EDAI	EDAI	EDAI	EDAI
EDAI	EDAI					
						TAI