

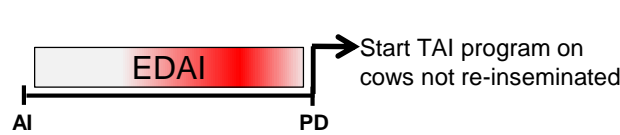


# Dairy Cow Synchronization Protocols - 2016

## Resynch methods

Any cow that is diagnosed open at pregnancy diagnosis (PD) can be resynchronized. Methods can be used with or without estrous detection and AI after observed estrus (EDAI).

### A. Start Ovsynch method after PD.



Example: Ovsynch56 Starting after PD

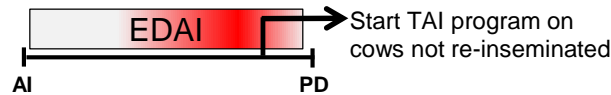
S	M	T	W	R	F	S

PGF GnRH TAI PD

The black rectangle denotes PD. PGF is administered to cows diagnosed open (not pregnant). Pregnant cows are not treated. A CIDR can be used in a resynch program according to the instructions on page 1.

Intensity of red color within EDAI denotes periods to expect most cows in estrus during EDAI. Open cows are typically observed in estrus on days 18 to 25 after AI. Nomenclature: The interval in days from previous AI to the start of the Resynch program (first GnRH) is denoted in front of the program (d32Ovsynch56, etc.).

### B. Start timed AI method before PD.



Example: Ovsynch56 Starting before PD

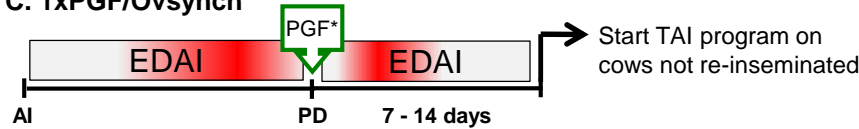
S	M	T	W	R	F	S

Example: 5dCosynch72 Starting before PD

S	M	T	W	R	F	S

\*PGF is given to open cows (not pregnant). Pregnant cows are not treated after PD.

### C. 1xPGF/Ovsynch



Example: 1XPGF/Ovsynch56

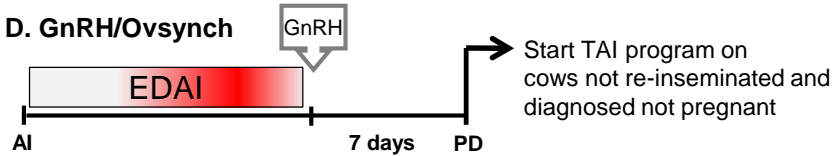
S	M	T	W	R	F	S

The 1XPGF/Ovsynch program can be used with any Ovsynch method.

PGF is administered to cows that have not been inseminated and are diagnosed open at PD.

The intensity of red color within EDAI denotes periods to expect most cows in estrus during EDAI. Open cows are typically observed in estrus on days 20 to 25 after AI or 2 to 7 d after PGF.

### D. GnRH/Ovsynch



Example: GnRH/Ovsynch56

S	M	T	W	R	F	S

The GnRH/Ovsynch program can be used with any Ovsynch method.

GnRH is administered to cows that have not been re-inseminated at 32 +/- 3 d after previous AI. Cows do not usually come into estrus within one week after a GnRH injection.

## Sample Calendars for Resynch Programs

Calendars are examples of resynch programs. Any resynch program can be used after an initial AI. Any cow observed in estrus before or during the Resynch can be inseminated.

Example: d32 Ovsynch56 Starting after PD

	S	M	T	W	R	F	S
Initial AI							
Resynch and AI							

Example: d32 Ovsynch56 Starting before PD

	S	M	T	W	R	F	S
Initial AI							
Resynch and AI							

The synchronization efficiency and fertility may differ among the listed programs. Specific research data should be evaluated to determine the program that is optimal for use on a particular dairy.

## Compliance table

The following table is provided for reference. It shows the percentage of cows that receive all injections (yellow boxes) as a function of compliance at an individual injection. As an example, if 95 out of 100 cows receive their injection on any given day then the herd has 95% compliance. The greatest P/AI are achieved with 100% compliance so that all cows receive every injection. Farms should have a method to monitor compliance before they start a program.

Compliance	3 injection program	5 injection program
100%	100%	100%
95%	86%	77%
90%	73%	59%

This protocol sheet was assembled by members of the Dairy Cattle Reproduction Council (DCRC). Programs are intended to promote sustainable food production by the dairy industry through sound reproductive management practices. The DCRC recommends working with a licensed veterinarian for proper use and administration of all reproductive hormones.