

## CONTROLLED INTERNAL DRUG RELEASE SILICONE DEVICE INSERTION

### 1. PURPOSE

The following describes the process of installing a progesterone releasing intravaginal insert in a cow or breeding age heifer.

### 2. RESPONSIBILITY

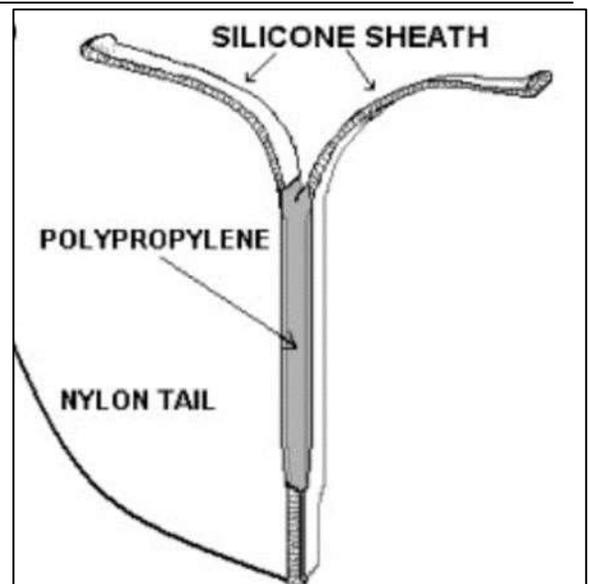
- 2.1 Trained and qualified personnel
- 2.2 Herd Manager
- 2.3 Principal Investigator
- 2.4 Veterinarian

### 3. MATERIALS

- 3.1 Blue cart
- 3.2 CIDR 1380 progesterone releasing intravaginal insert
- 3.3 Applicator
- 3.4 Disinfectant solution (e.g. Povidone-iodine USP 10%)
- 3.5 Nitrile gloves
- 3.6 Paper towels

### 4. GENERAL CONSIDERATIONS

- 4.1 Controlled Internal Drug Release (CIDR) is an intravaginal progesterone insert used in conjunction with hormones to synchronize estrus in dairy cows.
- 4.2 CIDRs are a viable alternative for the following breeding challenges:
  - Inefficient heat detection,
  - Non-cycling cows with poor response to breeding programs,
  - Cows and heifers in the wrong stage of their estrus cycles to initiate breeding, or
  - Heifers that aren't cycling, even if old enough to do so.
- 4.3 CIDRs are applied under the advisement of the veterinarian for herd health purposes or as part of a research trial.
- 4.4 Always wear latex or nitrile gloves to prevent exposure to progesterone and introducing contaminants into the vaginas of treated females.
- 4.5 Preferable to have an assistant to keep tail away from vulva and prevent cow from moving from side to side.
- 4.6 To achieve optimal pregnancy rates with CIDR-based ES protocol, females should be in good body condition.

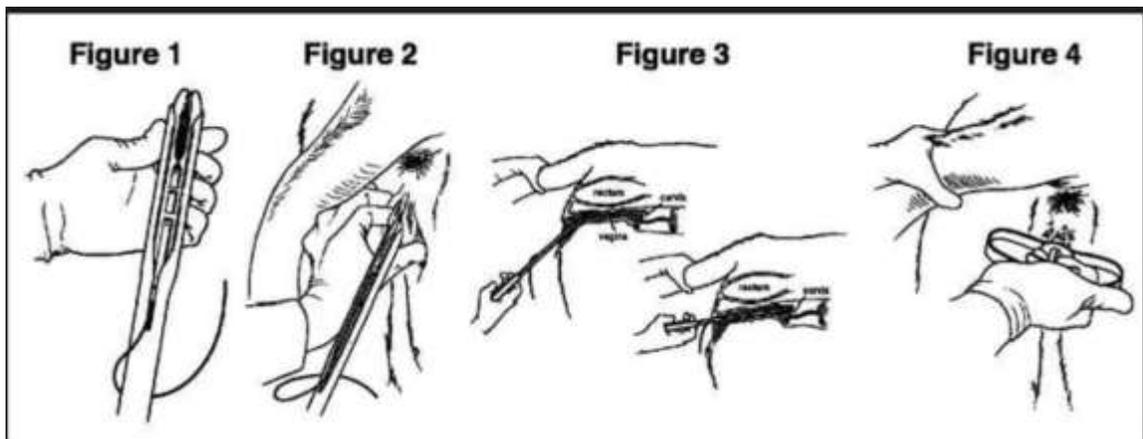


- 4.7 Hormone treatments should be initiated only when cows are at least 45 days post-calving.
- 4.8 Do not use in dairy heifers of insufficient size or age for breeding or in cattle with abnormal, immature or infected genital tracts.

## 5. PROCEDURE

### 5.1 INSTALLATION IN COW

- 5.1.1 Ensure the cow is standing, as well as the cow on either side.
- 5.1.2 Wash the vulva thoroughly and gently using disinfectant solution to remove manure and bedding.
- 5.1.3 Hold the tail up or to one side to avoid re-contamination of the vulva.
- 5.1.4 Put the body of the insert into the applicator, with the plastic retraction cord in the slot.
- 5.1.5 Apply lubricant to the tip and position the insert with the plastic retraction cord on the underside of the applicator and curling down.
- 5.1.6 Open the labia and gently slide the applicator in at a slight upward angle until resistance is met.
- 5.1.7 Depress the plunger and slowly withdraw the applicator.
- 5.1.8 Ensure that the plastic retraction cord is positioned so it does not irritate the vulva. Cut the excess cord for heifers and cows going outdoors for exercise so other cows are less likely to pull it out.)



- 5.1.9 Release the cow's tail.
- 5.1.10 Clean applicator with disinfectant solution.
- 5.1.11 To remove the CIDR cord intact ,
- Don clean gloves
  - gently pull on the plastic retraction cord and dispose of properly.
- 5.1.12 To remove a CDR with a cut cord:
- Don clean gloves
  - Wash the vulva thoroughly and gently using disinfectant solution to remove manure and bedding.
  - Hold the tail up or to one side to avoid re-contamination of the vulva.
  - open the vulva and insert your fingers to reach the cord. Gently pull it out. and dispose of properly.

## 6. REFERENCES

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- 6.1 Grant, Eric. Feb. 01, 2006. *Understanding CIDR*. Retrieved from [https://www.beefmagazine.com/mag/beef\\_understanding\\_cidr](https://www.beefmagazine.com/mag/beef_understanding_cidr)
- 6.2 Parrish, John. J.; Department of Animal Sciences. Reproductive Physiology, University of Wisconsin-Madison. *CIDR*. Retrieved from [http://www.ansci.wisc.edu/jjp1/ansci\\_repro/misc/websites09/thur/CIDR%20Website%20Final/website11.23.09.h\\_tml](http://www.ansci.wisc.edu/jjp1/ansci_repro/misc/websites09/thur/CIDR%20Website%20Final/website11.23.09.h_tml)

### Document Status and Revision History

DATE	NEW VERSION
11-Jun-2019	Version 01: MacDonald Campus FACC approved
8-Sept-2023	Version 02: MacDonald Campus FACC approved