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 Dairy Staff
2.2 Dairy Manager and/or Farm Manager
2.3 Veterinarian

3. MATERIALS

3.1 Blue cart
3.2 CIDR 1380 progesterone releasing intravaginal insert
3.3 Applicator
3.4 Betadine spray or pail of warm water with antiseptic soap such as Endure 400 or equivalent
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. PROCEDURES

5.1 INSTALLATION IN COW

5.1.1 Ensure cow is standing, as well as the cow on either side

5.1.2 Wash the vulva thoroughly and gently using betadine spray or warm water with antiseptic soap 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. (It is possible to cut the excess cord so other cows are less likely to pull it out.)

5.1.9 Release the cow’s tail.

5.1.10 Clean applicator with Endure 400 and warm water.

5.1.11 To remove, pull gently on the plastic retraction cord and dispose of properly.

6. PROCEDURES


Document Status and Revision History

<table>
<thead>
<tr>
<th>DATE</th>
<th>PREVIOUS VERSION</th>
<th>NEW VERSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-June-2019</td>
<td>NEW</td>
<td>MAC Campus FACC approved</td>
</tr>
</tbody>
</table>