Two-pronged approach to keep cows productive

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Tough economic times require you to analyze every cost. Herd health protocols are tools that can help protect productivity and profits. The following two-pronged approach, developed by Merck Animal Health, can help you improve pregnancy rates and keep animals healthy.

Nearly 15 years of peer-reviewed science has repeatedly shown the Vista® vaccine line provides protection against infection from bovine respiratory disease (BVD) deeper into pregnancy than other vaccines.¹ By providing this line of defense early, when animals are ready for breeding, they experience higher conception rates, fewer lost pregnancies and healthier calves.

Vista is the only BVD Type 1 and Type 2 vaccine that has been approved for the claim: "aids in the prevention of fetal infection, including persistently infected calves." A study concluded that vaccinating heifers pre-breeding with a minimum protective dose of Vista 5 SQ not only produced a measurable, protective immune response post-vaccination, but also reduced the risk of infection to the gestating fetus.²

The result: As shown in graph 1, calves born from dams vaccinated with Vista are protected from BVD when they hit the ground.

Timed breeding for better pregnancy rates

The ability to freshen cows on time and shorten calving intervals helps keep animals in the milking

string and profitable. Shorter calving intervals increase the number of peak lactations for a cow, resulting in higher lifetime production.

Fertagyl® (gonadorelin) and Estrumate® (cloprostenol sodium) help simplify fertility. Fertagyl, which triggers ovulation, is labeled for use with Estrumate to synchronize estrous cycles in lactating dairy cows.

At the 2018 American Dairy Science Association meeting, researchers presented results of a study designed to evaluate GnRH products to determine if they have comparable ovulation and pregnancy rates per service when used in a synchronization program. As shown on graphs 2 and 3, results found the ovulation and pregnancy rate of Fertagyl was comparable to Cystorelin® and much higher than Factrel®.3

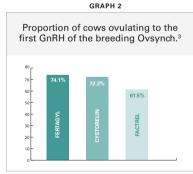
A healthy, productive herd

Getting and keeping cows pregnant are keys to the success of the dairy farm. Following this two-pronged protocol protects animals from reproductive challenges and shortens calving intervals to boost productivity.

Percent of fetuses demonstrating serum neutralization titers to BVD Type 1 and Type 2.2

Vista 5 SQ provides a measurable, protective immune response post-vaccination for complete fetal protection.

BVD Type 2



Study compares the effectiveness of GnRH products in synchronizing lactating dairy cows.³



Study results show pregnancy rate per Al was similar between Fertagyl and Cystorelin, but both were greater than Factrel (42.0%).³

References

- 1. Xue W., Mattick D., Smith L., Maxwell J. Fetal protection against bovine viral diarrhea virus types 1 and 2 after the use of a modified-live virus vaccine. Can J Vet Res. 2009 Oct;73(4):292-7.
- 2. Effect of Vista® 5 SQ Given Pre-Breeding for Protection from BVD Type 1 and Type 2 Fetal Infection. BV-VST-41405-BRSV-EFF 12/10.
- 3. Luchterhand M., Gamarra C., Gennari R., Guenther, J., Carvalho P., Souza A., Barletta R. (2018, June). Fertility response to commercially available GnRH products in lactating cows synchronized with the Double Ovsynch protocol. 2018 American Dairy Science Association Annual Meeting, Knoxville, TN.

Cystorelin is a registered trademark of Merial. Factrel is a registered trademark of Zoetis. Fertagyl is a registered trademark of Intervet.

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IMPORTANT SAFETY INFORMATION ON ESTRUMATE: At 50 and 100 times the recommended dose, mild side effects may be detected in some cattle; these include increased uneasiness, slight frothing, and milk let-down. For complete information on use, withdrawal period, contraindication, adverse reactions, refer to product package insert.

IMPORTANT SAFETY INFORMATION ON FERTAGYL: Caution: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian

FERTAGYL®

(GONADORELIN)

FOR THE TREATMENT OF CYSTIC OVARIES IN DAIRY CATTLE

FOR THE FIREARMENT OF CYSTIC OVARIES IN DAIRY CATTLE
FOR USE WITH ESTRUMATE (CLOPROSTENOL INJECTION) TO SYNCHRONIZE ESTROUS
CYCLES TO ALLOW FOR FIXED TIME ARTIFICIAL INSEMINATION (FTAI) IN LACTATING DAIRY
COWS

CAUTIONFEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON THE ORDER OF A LICENSED VETERINARIAN.

DESCRIPTION

Fintly is a sterile solution containing 43 mag gonudorelin (GrPH; as gonadorelin acotate) per millitile sublable for inframencation inframence administration according to the indication.
Gonudorelin is a developide composed of the sequence of alimin acidity of the indication.
Gonudorelin is a developide composed of the sequence of alimin acidity of the indication.
5-5 cardin-16-15 mp. Ser. 17-6-69; 4.u. 4-v. p. Po-Gly-NH;
with a millional revision of 18.u. 22 and empirical formatio Cayl-NH; CrO.3.
Gonudorelin is the hypothalamic releasing factor responsible for the release of gonadotropins (e.g., LH, Sylfredic gonadorelin is physiologically and chemically identical to the endogenous bovine

PARAMACOLOGY AND TOXICOLOGY
Endogenous greatered in a synthesized by anidor released from the hypothalismus during various stages of the tower stickers cycle following appropriate interruppinc dirent. It passes via the LLL FSN, Synthetic genetic administered informatically or inharmonally also causes the release of endogenous User 1964 from the author of highling.

Foundation anotate has been shown be selfs. The LD, for rince and ratis is greater than 60 mg/sq. regressly, blue introval effects were noted among ratio or dogs administered 120 mcg/sq. regressly, blue introval effects were noted among ratio or dogs administered to mcg/sq. inharmonally also causes the release of edge and for dogs, greater than 60 mg/sq. regressly, blue transverse districts were noted among ratio or dogs administered to mcg/sq. in inamethetic dogs in 400 mg/sq. in amethetic dogs in 400 mg/sq. in 400 mg/sq. in amethetic dogs in 400 mg/sq. in 400 mg/sq. in amethetic dogs in 400 mg/sq. in

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Optic Database

Firstling (paracherish) is included for the treatment of coarian follicular cyets in daily cattle. Oration cyets
are non-outland follicits with incomplete laterization which result in reproduceman or irregular estruc.

Historically, optic coaries have responded to an ecogenous source of luteriaring hormone (LH) such as human chronics gonaddropsis.

Firstling inflation resulted endergenous LH to cause condition and tuterinization.

The recommended inframuscular or intraversous disage of Fertagel is 66 mag gonadomin (2 mL) per

The recommensus measurements of the production o

eaths using standard herd practice. TARGET ANMAS ASPETY VEH. Interest to the target aimst all early information presented in the section addressing pharmacolar and toxiciting, stranget animal sately of, and ejection site reactions to. Fertagy (groadsnelle) when usuad with Esthumash (obprostered injection) were evaluated during the conduct of the effectiveness fleet studies. The incidence of health abcommittees was not significantly greater in cores administe fraings that come administed a placeto-injection.

FFECTIVENESS or straight (securious) in the settlement of securious (securious) in the settlement of securious or straight (securious) in the settlement of securious (securious) in the secur

- administered an equivalent volume of saline as regimen: Day 0: 2 mL Fertagyl or saline Day 7: 2 mL Estrumate (cloprostenol injection) Day 9: 2 mL Fertagyl or saline

Lasy × C m. retragy for saline Fixed time AI was performed on Day 10, 16 ± 8 hours after the Day 9 injection. Cows were evaluate for pregnancy on 45 ± 5 days by trans-rectal ultrascond or rectal polipation. Pregnancy rate to FTAI was significantly higher (P=0.005) in cows resuled with Fertagy (S3.4%) than the pregnancy rate FTMI brows treated with saline (17.3%).

Each ml. of Fertagyl contains:
Gonadorelin (as gonadorelin acetate)
Benzyl Alcohol
Sodium Chloride
7,47 mg
Water for Injection, USP
q.s.

FOR ANIMAL USE ONLY. NOT FOR HUMAN USE. KEEP OUT OF THE REACH OF CHILDREN.

The Material Safety Data Sheet (MSDS) contains more detailed occupational safety information. To report adverse effects in users to obtain a MSDS or for assistance call 1-800-211-3573.

Nationatories units
NTERVET INC (d/b/a Merck Animal Health)
Madison, NJ 07940

By: INTERVET INTERNATIONAL GmbH
Unterschleissheim - Germany





Prostaglandin Analogue for Cattle Equivalent to 250 mcg cloprostenol/mL



ACTION:

Estimates causes functional and morphological regression of the corpus Autourn (lutedysis) in cattle. In normal, nonpreparat cycling animals, this effect on the file span of the corpus luten usually results in extra 2 to 3 days after treatment. In animals with laterlysis usually results in resolution of the condition and return to cyclicity. Pregnant amimals may abort depending on the stage of gestation.

RECOMMENDED LAST described in the control of the co

treated with Estrumbs III a mature corpus lutture in present. Estruit is expected to accour should be intermined at the usual time following detection of estruit. I estruited section is not desirable or possible, treated animals may be intermined twice at the other control of the patients of the control of the control

Estrumate injection.

Many animats will come into estrus following the first injection; these animats can be inseminated at the usual time following detected estrus. Animats not inseminated at the usual time following detected estrus. Animats not inseminated at should receive a second injection 11 days after the first injection. Animats receiving both injections may be inseminated at the usual time following detection of estruct or may be inseminated at the usual time following detection of estruct or may be inseminated at the usual time following detection of estruct or may be inseminated at the usual time following detection of estruct or may be inseminated at the usual time following detection of estructions.

- turning in clean-up bull(s) 5 to 7 days after the last injection of Estrumate to cover any animals returning to estrus.

REQUIREMENTS FOR CONTROLLED BREEDING PROGRAMS:
A variety of programs can be designed to best meet the needs of individual management systems. A controlled breeding program should be selected which is appropriate for the existing circumstances and management practices.

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For veseranty due only.

Whomen of children's authoration, and persons with branchial and other regulatory. Whomen of children's page entires exclude years handlength by another. In the early stages, women may be unaware of their pregnancies. Estrumate is readly absorbed though the skin and may cause abortion and/or branchisopasms, direct contact with the skin should therefore be avoided. Accidental spillage on the skin should be washed off immediately with soap and value.

- STORAGE CONDITIONS:

 1. Protect from light.

 2. Store in containe:

 3. Store at controlled room temperature 59°-86° E (15°-30° C).

 4. Use within 28 days of first use.

CAUTION: Federal (USA) law restricts this drug to use by or on the order of a licensed vete

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