MEMBERSHIP TIPS

by Jerry Cassady director of member services



Genetic condition management tools

The American Angus Association offers an array of tools to help producers manage their herds, ranging from data reporting tips to simple gestation calculations.

Specific to genetic abnormalities, there are several tools available to assist producers manage genetic conditions (genetic defects) within the DNA tab in your AAA Login portal. Under the Genetic Condition Tools tab, you will find several useful tools to assist in managing genetic conditions monitored by the Association.

Genetic abnormalities are regrettably a reality for any living organism, and the understanding of these conditions continues to evolve each year with everincreasing knowledge and scientific advancements. Are some breeds of cattle immune to these unfortunate occurrences? Unfortunately not, as expert geneticists know and have observed all breeds of cattle have hundreds of mutations in their

genome. Some of these mutations can be beneficial, and some can cause harm or even death to the individual. Beneficial mutations can lead to genetic progress for a breed, and conversely those causing harm or death are known as genetic conditions. These genetic abnormalities may include an impairment of health or a condition of abnormal function due to an abnormal or mutated gene.

The Association monitors genetic conditions known to exist within the Angus population and has subsequent protocol in place to manage the frequency of these mutations. By relying on sound scientific principles, the Association can continue to determine the most effective policy governing these genetic conditions. Through strategic

DNA testing and management, breeders can successfully manage these issues in a way that is beneficial to the Angus breed and commercial customers utilizing Angus genetics.

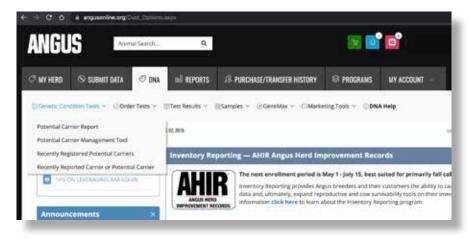
Potential carrier report

The potential carrier report displays a listing of all potential carriers within your herd inventory for any of the eight identified genetic conditions monitored by the Association. By using this tool, you can identify those animals which need to be tested for each of the listed conditions.

With lethal conditions, all offspring will have to be tested and bull calves will need to test free of the condition for registration, while female offspring can be registered regardless of the test result. For nonlethal conditions, there are no testing requirements for registration.

Potential Carrier Management Tool

This tool is very useful in showing potential carriers for each specific abnormality chosen from the dropdown menu if they have owned registered progeny that are also potential carriers. This tool is to be used to help determine which animals need to be tested for a



ADVERTISEMENT

Get cows and replacement heifers bull bred faster

A simple heat synchronization program can open opportunities for profit



No matter the price of cattle, a heavier, more consistent calf crop will be more marketable. But with higher cattle prices, there is an opportunity for even greater margins.

Getting cows and heifers pregnant in a timely manner is critical to reaping economic advantages. There's a lot of profit potential if they can be bred the first 21 days of the breeding season.

On the flip side, for every 21 days cows are open, between 20 and 40 pounds of weaning weight is lost. And, with today's high feed prices, there is a considerable cost to maintaining open cows.

Heat synchronization isn't just for Al

A University of Nebraska-Lincoln study evaluated how heat synchronization affects calving distribution – and how time of calving affects carcass characteristics.²

Heat was synchronized with a single injection of prostaglandin 4.5 days (108 hours) after turning mixedage bulls in with the cow herd. Study results show these benefits of synchronization:

- More cows calved during the first 21 days
- Calves were 20 pounds heavier at weaning
- Calves born in the first 21 days had greater carcass weights, marbling scores and better yield grades
- Shortened breeding season from 60 to 45 days
- Heavier, more valuable carcasses, which were worth an additional \$77 per carcass at the feedlot

A simple solution: heat synchronization

Heat synchronization can help manage the timing of your breeding and calving seasons, whether you bull breed or use artificial insemination (AI). Getting more cows pregnant in the first 21 days delivers these benefits:



Shorter calving interval



Increased profit potential



Earlier conception



More uniform calf crop



Increased weaning weights

Simple, one-dose synchronization

ESTRUMATE® (cloprostenol injection) is a leading prostaglandin that allows producers to manage heat detection, breeding and calving intervals, whether using bull breeding or AI. It offers a long half-life of three hours.³

One shot of ESTRUMATE 4 to 5 days after turning out the bulls is the optimal protocol. However, if that protocol won't fit your management system, one shot at turnout will still induce more cows to show heat sooner and get more cows calving during the first 21 days.

A lot of factors go into reproductive success. It's important to work with your veterinarian on vaccinations to optimize conception and to prevent reproductive loss through breeding and gestation. Your veterinarian can also assist with parasite management programs, bull management, bull stocking rate and breeding soundness exams.

By Jacques Fuselier, DVM, DACT, DABVP

Cattle Technical Services



For more information, visit Estrumate.com or scan the QR code using the camera on your phone.

¹Cushman RA, Kill LK, Funston RN, Mousel EM, Perry GA. Heifer calving date positively influences calf weaning weights through six parturitions. *J Anim Sci.* 2013;91:4486-4491.

² Larson DM, Musgrave JA, Funston RN. Estrous synchronization increases early calving frequency, which enhances steer progeny value. *Nebraska Beef Cattle Reports*. 2010;14-16.

IMPORTANT SAFETY INFORMATION:

Women of childbearing age, asthmatics, and persons with respiratory problems should exercise extreme caution when handling ESTRUMATE. ESTRUMATE is readily absorbed through the skin and may cause abortion and/or bronchospasms; direct contact with the skin should be avoided and accidental spillage on the skin should be washed off immediately with soap and water. Do not administer ESTRUMATE

to a pregnant cow if abortion is not desired. Severe localized post-injection clostridial infections have been reported; in rare instances infection has led to death. At 50 and 100 times the recommended dose, mild side effects



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on ESTRUMATE, see package insert.



³ European Agency for the Evaluation of Medicinal Products, Committee for Veterinary Medicinal Products, Cloprostenol and R-Cloprostenol Summary Report, 1997.

specific condition that could affect multiple generations of animals. Animals with only unregistered or inactive/canceled progeny or animals in the criteria that have been already tested or have no carrier ancestors for the chosen genetic condition will not be displayed in the results.

Recently registered potential carrier

The recently registered potential carrier report allows you to view all potential carrier animals that have been recently registered with the Association from your account. If an animal is noted as a potential carrier of a known genetic condition, the potential carrier code will appear after the animal's name. For example, M1P would be a potential carrier of the M1 defect.

Recently reported carrier or potential carrier report

This report illustrates your inventory of identified carrier or potential carrier animals of any of the known genetic conditions. This listing is especially helpful as it includes all animals reported to the Association, registered or unregistered. A

icassady@angus.org

Editor's notes: The information in the status columns of these reports is based on test results received to date. Status could change as additional test results are received by the Association.

Additional information and the complete Association Genetic Condition Policy is presented in Part 3 within the Breeder's Reference Guide. Breeders may also contact the Member Services department with questions at (816) 383-5100 or email me directly at jcassady@angus.org.

Estrumate® (cloprostenol injection)
250 mgg cloprostenol/ml (equivalent to 263 mgg cloprostenol sodium/mL)
A sterile solution of a prostaglandin F2α analogue for intramuscular injection in beef cows, lactating dairy cows, and replacement beef and dairy heifers
Caution: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

DESCRIPTION:

DESCRIPTION:Estimate² (cloprostenol injection) is a synthetic prostaglandin analogue structurally related to prostaglandin F2 α (PGF2 α). Each mL of the sterile coolreise aqueous solution contains 250 mcg cloprostenol (equivalent to 253 mcg cloprostenol (equivalent to 253 mcg cloprostenol edum), 6.1 mg sodium chirate, 055 mg anhydrous citric acid, 6.7 mg sodium chloride, 20 mg benzyl alcohol, and water for injection, q.s.

INDICATIONS FOR USE:

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1. For unobseved or non-detected estrus in beef cows, lactating dairy cows, and replacement beef and dairy heifers
2. For treatment of pyometra or chronic endometritis in beef cows, lactating dairy cows, and replacement beef and dairy heifers
3. For treatment of mummified fetus in beef cows, lactating dairy cows, and replacement beef and dairy heifers
4. For treatment of luteal cysts in beef cows, lactating dairy cows, and replacement beef and dairy heifers
5. For abortion of beef cows, lactating dairy cows, and replacement beef and dairy heifers
5. For abortion of beef cows, lactating dairy cows, and replacement beef and dairy heifers
6. For setsrus synchronization in beef cows, lactating dairy cows, and replacement beef and dairy heifers
7. For use with Fertapy® (gondorielin) to synchronize estruss cycles to allow for fixed time artificial insemination (FTAI) in lactating dairy cows.
Estrumate causes functional and morphological regression of the corpus luteum for tocyling laminals, this effect on the life span of the corpus luteum sually results in setsus 2 to 5 days after treatment. In animals with prolonged luteal function (pyometra, and ulteal cysts), the induced luteolysis usually results in resolution of the condition and return to cyclicity. Pregnant animals may abort depending on the stage of gestation. DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION

Two mit of Estrumate (500 meg cloprosteno) should be administered by INTRAMUSCULAR INJECTION using the specific dosage regimen for the indication, 20 mit bottle size; Use within 28 days of first puncture and puncture a maximum of 12 times. Use only with automatic injection equipment or repeater syringe. Discard bottle after one stopper puncture with draw-off spike.

1. For unobserved or non-detected estrus in beef cows, lactating dairy cows, and replacement beef and dairy helfers

Cows and helfers which are not detected in estrus, although ovarian cyclicity continues, can be treated with Estrumate if a mature corpus luteum is present. Estrus is expected to occur? 2 to 5 days following injection, at which time animals may be inseminated. Treated cattle should be inseminated at the usual time following detection of estrus. If estrous detection is not desirable or possible, treated animals may be inseminated. Treated cattle should be inseminated at the usual time following detection of estrus. If estrous detection is not desirable or possible, treated animals may be inseminated. Treated cattle should be inseminated at the usual time following detection of estrus. If estrous detection is not desirable or possible, treated animals may be inseminated. Treated cattle should be inseminated at the usual time following detection of estrus. If estrous detection is not desirable or possible, treated animals may be inseminated. Treated cattle should be inseminated at the usual time following detection of estrus. If estrous detection is not desirable or possible, treated animals may be inseminated. Treated cattle should be inseminated at the usual time following detection of the reporductive treat at calving or possibratum retention of the placement bed and dairy helfers.

2 For treatment of numeration of the utrus in Manual cyclical activity within 14 days gost-treatment, recovery rate of treated animals will not be different than that of untreated cattle.

3 For treatment of numeration and activi

cyst.

For abortion of beef cows, lactating dairy cows, and replacement beef and dairy heifers

Unwanted pregnancies can be safely and efficiently terminated from I week after mating until about 5 months of gestation. The induced abortion is normally uncomplicated and the fetus and placents are usually expelled about 4 to 5 days after the injection with the reproductive tract returning to normal soon after the abortion. The ability of Estrumate to induce abortion decreases beyond the fifth month of gestation while the risk of dystocia and its consequences increases.

Unwanted pregnancies can be safely and efficiently terminated from I week after mating until about 5 months of gestation. The induced abortion is normally uncomplicated and the fetus and placentar are usually expelled about 4 to 5 days after the injection with the reproductive trac returning to normal soon after the abortion. The ability of Estrumate to induce abortion decreases beyond the fifth month of gestation while the risk of dystocia and its consequences increases. Estrumate has not been sufficiently tested under feedlot conditions; therefore, ecomemedations cannot be made for its use in helfers placed in feedlots.

6. For estrus synchronization in heef crows, lactating dairy cows, and replacement beef and dairy helfers. The luteolytic action of Estrumate can be utilized to schedule estrus and ovalidated cycling animal or a group of animals. This allows control of the time at which cycling cows or helfers can be bred. Estrumate can be used in a breeding program with the following methods:

Single Estrumate injection: Only animals with a mature corpus luteum is possible to read the suppose to the single injection. However, not all cycling cattle should be treated of since a mature corpus luteum is possible to read the single injection. However, not all cycling cattle should be treated to since a mature corpus luteum is present for only 11 to 12 days of the 21-day cycle. Prior to treatment, cattle should be examined retally and found to be anatomically normal, be non-pregnant, and have a mature corpus luteum. If these criteria are met, estrus is expected to occur 2 to 5 days following injection, at which them animals may be inseminated either once at about 72 and 50 days following injection, at which them animals may be inseminated either once at about 72 and 50 days following injection. With a single injection program, it may be desirable to assess the cyclicity status of the herb before Estrumate treatment of the program of the single present of the program of the program of the program of the program of

It is important to understand that Estrumate is effective only in animals with a mature corpus lateum (ovulation must have occurred at least 5 days prior to treatment). This must be considered when breeding is intended following a single Estrumate injection. There is no difference in the fertility achieved following the single of voluble dosage regimen when breeding occurs at induced estrus, or at 72 and 96 hours post-treatment. Conception rates may be lower than expected in those fixed time breeding programs employing Estrumate alone which omit the second insemination

treatment. Coincepout rates may be woler thair specieted in mose fixed under other programs enjoying savanate alone which offine the section, the insemination at or near 96 hours). This is especially true if a fixed time insemination is used following significant programs similar to the following.

7. For use with Fertagyl* (gonadorelin) to synchronize estrous cycles to allow for fixed time artificial insemination (FTAI) in lactating dairy cows. Use in reproductive synchrony programs similar to the following:

8. Administer The first Fertagyl* injection (2 ml.; 86 mcg gonadorelin, as gonadorelin acetate) by intramuscular injection on Day 0.

8. Administer Am Of Estumate by intramuscular injection for to days after the first Fertagyl* injection.

9. Perform of FTAI 8 to 24 hours after the second Fertagyl* injection, or inseminate cows on detected strus using standard herd practices.

CONTRAINDICATIONS:

Do not use this drug product in pregnant cattle, unless abortion is desired.

WARNINGS AND PRECAUTIONS:

WITHDRAWAL PERIODS AND RESIDUE WARNINGS:

No milk discard or pre-slaughter drug withdrawal period is required when used according to labeling. Use of this product in excess of the approved dose may result in drug residues.

LISER SAFETY WARNINGS:

USEN SAFETY WARKNINGS:

Not for use in humans. Keep this and all drugs out of the reach of children.

Women of childbearing age, asthmatics, and persons with bronchial and other respiratory problems should exercise extreme caution when handling this product.

Estrumate is readily absorbed through the skin and can cause abortion and/or bronchospasms. Direct contact with the skin should therefore be avoided.

Accidental spillage on the skin should be washed off immediately with soap and water. To obtain a copy of the Safety Data Sheet (SDS) or for technical assistance, contact Merck Animal Health at 1-800-211-3573 or http://www.merck.com

contact Merck Animal Health at 1-900/2-11-39730 intpl/intermental indicates Animal Aspert YARNINGS.

As with all parenteral products, careful aseptic techniques should be employed to decrease the possibility of post-injection bacterial infection. Severe localized clostridial infections associated with injection of Estrumate have been reported. In rare instances, such infections have resulted in death. Aggressive antibiotic therapy should be employed at the first sign of infection at the injection site, whether localized or diffuse.

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.

COVINED: INFORMATION.
To report suspected adverse drug experiences, call Merck Animal Health at 1-800-211-3573. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-808-FDA-VETS or at http://www.fda.gov/reportanimalae

HOW SUPPLIED: 20 mL and 100 mL multidose vials STORAGE, HANDLING, AND DISPOSAL:

1. Protect from light.
2. Store in carties. 25 Store in carties. 12 Store in carties. 13 Store at 2-30°C (36-86°F).
3. Approved by FDA under NADA # 113-645.
3. Copyright © 2017 Intervet Inc (1/d/)24 Merck Animal Health) a subsidiary of Merck & Co., Inc. Madison, NJ 07940 All rights reserved.
3. Madis in Germany
3. Rev. 12/2018

