

Research Note:

Diagnosis of Canine Ovarian Remnant Syndrome

Diagnosis of canine ovarian remnant syndrome (ORS) can be challenging, and sex hormone measurements can yield variable results based on the patient's reproductive state. Anti-Müllerian hormone (AMH) is produced solely in the ovaries, making it a potential marker for the presence of ovarian tissue, but its secretion can be reduced during the luteal phase. In contrast, progesterone (P4) is secreted by luteal tissue. This study analyzed the clinical efficacy of measuring both AMH and P4 at a single time point to detect ORS prior to surgical exploration. Preoperative serum samples from dogs that underwent surgery for ORS were evaluated. Results showed that 25 dogs were positive for both AMH and P4, whereas 23 dogs were positive for either AMH or P4 or had inconclusive hormone levels. Although ovarian tissue was not found in 5 dogs that were positive for both hormones, none of the dogs with histologically confirmed ORS were negative for both AMH and P4. The authors concluded that the combined tests can be an effective assay for diagnosing ORS in dogs.

Source

Place NJ, Cheraskin JM, Hansen BS. Evaluation of combined assessments of serum anti-Müllerian hormone and progesterone concentrations for the diagnosis of ovarian remnant syndrome in dogs. *J Am Vet Med Assoc.* 2019;254(9):1067-1072.

None of the dogs with histologically confirmed ovarian remnant syndrome were negative for both Anti-Müllerian hormone and progesterone.

Advantage Multi® for Cats

(10% imidacloprid + 1% moxidectin)

BRIEF SUMMARY: Before using Advantage Multi® for Cats (imidacloprid+moxidectin), please consult the product insert, a summary of which follows:

CAUTION: Federal (U.S.A.) Law restricts this drug to use by or on the order of a licensed veterinarian.

INDICATIONS: Cats: *Advantage Multi for Cats* is indicated for the prevention of heartworm disease caused by *Dirofilaria immitis*. *Advantage Multi for Cats* kills adult fleas (*Ctenocephalides felis*) and is indicated for the treatment of flea infestations. *Advantage Multi for Cats* is also indicated for the treatment and control of ear mite (*Otodectes cynotis*) infestations and the intestinal parasites species Hookworm (*Ancylostoma tubaeforme*) and Roundworm (*Toxocara cati*). **Ferrets:** *Advantage Multi for Cats* is indicated for the prevention of heartworm disease in ferrets caused by *Dirofilaria immitis*. *Advantage Multi for Cats* kills adult fleas (*Ctenocephalides felis*) and is indicated for the treatment of flea infestations on ferrets.

WARNINGS:

Cats: Do not use on sick, debilitated, or underweight cats. Do not use on cats less than 9 weeks of age or less than 2 lbs. body weight.

Ferrets: Do not use on sick or debilitated ferrets.

HUMAN WARNINGS: Not for human use. Keep out of the reach of children. Children should not come in contact with the application site for 30 minutes after application. Causes eye irritation. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin. **Wash hands thoroughly with soap and warm water after handling.** If contact with eyes occurs, hold eyelids open and flush with copious amounts of water for 15 minutes. If eye irritation develops or persists, contact a physician. If swallowed, call poison control center or physician immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or physician. People with known hypersensitivity to benzyl alcohol, imidacloprid, or moxidectin should administer the product with caution. In case of allergic reaction, contact a physician. If contact with skin or clothing occurs, take off contaminated clothing. Wash skin immediately with plenty of soap and water. Call a poison control center or physician for treatment advice. The Safety Data Sheet (SDS) provides additional occupational safety information. For a copy of the Safety Data Sheet (SDS) or to report adverse reactions call Bayer Veterinary Services at 1-800-422-9874. For consumer questions call 1-800-255-6826.

PRECAUTIONS: Do not dispense dose applicator tubes without complete safety and administration information. **Cats:** Avoid oral ingestion. Cats may experience hypersalivation, tremors, vomiting and decreased appetite if *Advantage Multi for Cats* is inadvertently administered orally or through grooming/licking of the application site. The safety of *Advantage Multi for Cats* has not been established in breeding, pregnant, or lactating cats. The effectiveness of *Advantage Multi for Cats* against heartworm infections (*D. immitis*) after bathing has not been evaluated in cats. Use of this product in geriatric patients with subclinical conditions has not been adequately studied. **Ferrets:** The safety of *Advantage Multi for Cats* has not been established in breeding, pregnant, and lactating ferrets. Treatment of ferrets weighing less than 2.0 lbs. (0.9 kg) should be based on a risk-benefit assessment. The effectiveness of *Advantage Multi for Cats* in ferrets weighing over 4.4 lbs. (2.0 kg) has not been established.

ADVERSE REACTIONS: Cats: The most common adverse reactions observed during field studies were lethargy, behavioral changes, discomfort, hypersalivation, polydipsia and coughing and gagging. **Ferrets:** The most common adverse reactions observed during field studies were pruritus/scratching, scabbing, redness, wounds and inflammation at the treatment site, lethargy and chemical odor.

For a copy of the Safety Data Sheet (SDS) or to report adverse reactions call Bayer Veterinary Services at 1-800-422-9874. For consumer questions call 1-800-255-6286.

Advantage Multi is protected by one or more of the following U.S. patents: 6,232,328 and 6,001,858.

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NADA 141-254, Approved by FDA

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