

Patient: Dakota	Visit Date: 5/29/2020
Presenting Complaint: Preventive Care -- Vaccination/Deworming	

Topic: ASCARIDS, ROUNDWORMS

Ascarids, or roundworms, are common intestinal parasites found in dogs and cats. Puppies and kittens can be infected by their mother. Kittens can carry the parasites from a very young age, while puppies may be infected from birth.

Adult dogs and cats become infected by eating worm eggs from contaminated soil or stool, or by eating infected rodents. Ingested eggs travel through the body to the intestine and develop into mature worms. There, adult worms begin to deposit eggs. The eggs pass with the stool and repeat the cycle. Humans can be infected with roundworms by accidental ingestion of the infective egg stage of the parasite. Roundworm infection can cause very significant problems in humans.

Infected pets may exhibit no obvious signs. However, diarrhea, mucus or blood flecked stool, weight loss, poor hair coat, abdominal enlargement, and vomiting can occur. Diagnosis is accomplished by microscopically examining a stool sample for roundworm eggs. Occasionally, worms may be seen in the stool of infected Pets, but not always. Normal bowel movements do not rule out the possibility of parasite infection.

Treatment consists of various deworming medications. Some dewormers may kill more than one type of parasite. Roundworm elimination requires at least two dewormings 10-21 days apart. Following treatment, another stool examination is recommended to determine if further deworming is needed. To avoid re-infection, it is important to keep pet areas clean and free of stool.

***** IMPORTANT POINTS IN TREATMENT *****

Please use all medications as directed.

Clean up stools and stool contaminated areas promptly.

Monitor your pet's progress carefully and have him/her rechecked as directed by your veterinarian.

A follow up stool examination is highly recommended after treatment.

Please contact the medical team for any questions.

Topic: PYRANTEL

PYRANTEL

Summary:

This summary contains important information about Pyrantel. You should read this information and review it each time the prescription is filled. This sheet is provided as a summary and does not take the place of instructions from your veterinarian. Talk to your veterinarian if you do not understand any of this information or if you want to know more about Pyrantel.

Pyrantel is a/an anthelmintic agent, meaning it is used to treat gastrointestinal parasites (worms). Please note that a negative result on a fecal examination does not completely rule out a parasitic infection, due to variations in parasite life cycles. It is recommended to administer a general deworming medication, like Pyrantel, every 6 months, even if a recent fecal examination was negative.

YOUR PET SHOULD NOT BE GIVEN PYRANTEL IF HE/SHE HAS A KNOWN SENSITIVITY / ALLERGY TO THIS MEDICATION OR RELATED COMPOUNDS.

HOW AND WHEN DO I GIVE THE MEDICINE TO MY PET?

Always follow the doctor's directions. Give the medicine as directed. Use it only as prescribed. See the medicine label for specific instructions.

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Store medicine at room temperature in a tight container, unless otherwise directed.

See the Surgery client brochure for detailed instructions on how to administer oral medications.

WHAT SIDE EFFECTS MAY OCCUR?

Side effects are unlikely but vomiting may be seen. Rarely, if a large amount of intestinal worms are present at the time of treatment, abdominal pain, diarrhea, and lethargy may be seen.

WHEN SHOULD I CALL MY BANFIELD VETERINARIAN?

If your pet does not eat or drink at any time during administration of this drug, please call your veterinarian. Call before stopping the medicine if any side effects occur or if the symptoms persist. Schedule follow-up visits as directed by your veterinarian. Your pet may require blood work and/or other diagnostic tests to check his or her response to the plan of care.

WARNINGS:

As with any product, consult your veterinarian before using this product on debilitated, aged, pregnant or nursing pets. If your pet is on any other medication, consult your veterinarian before using this or any other product. Tell your veterinarian about any medications or supplements you are giving, or plan to give your pet. Tell your veterinarian if your pet is pregnant, nursing, or if you plan to breed your pet.

PLEASE NOTE:

Keep this and all medications out of the reach of children and other pets. Contact your physician immediately with any concerns of human exposure/ingestion.

Topic: TRI-HEART PLUS SINGLE DOSE

Tri-Heart® Plus

(Ivermectin/Pyrantel)
Chewable Tablets

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

INDICATIONS: For use in dogs to prevent canine heartworm disease by eliminating the tissue stage of heartworm larvae (*Dirofilaria immitis*) for a month (30 days) after infection and for the treatment and control of ascarids (*Toxocara canis*, *Toxascaris leonina*) and hookworms (*Ancylostoma caninum*, *Uncinaria stenocephala*, *Ancylostoma braziliense*).

DOSAGE: Tri-Heart® Plus ivermectin/pyrantel chewable tablets should be administered orally at monthly intervals at the recommended minimum dose level of 6 mcg of ivermectin per kilogram (2.72 mcg/lb) and 5 mg of pyrantel (as pamoate salt) per kg (2.27 mg/lb) of body weight. Tri-Heart® Plus ivermectin/pyrantel chewable tablets are recommended for dogs 6 weeks of age and older. For dogs over 100 lbs, use the appropriate combination of these tablets.

ADMINISTRATION: Remove only one chewable tablet at a time from the blister card. Because most dogs find Tri-Heart® Plus

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chewable tablets palatable, the product can be offered to the dog by hand. Alternatively, it may be added intact to a small amount of dry food or placed in the back of the dog's mouth for forced swallowing.

Care should be taken that the dog consumes the complete dose, and treated animals should be observed for a few minutes after administration to ensure that part of the dose is not lost or rejected. If it is suspected that any of the dose has been lost, redosing is recommended.

Tri-Heart® Plus chewable tablets should be given at monthly intervals during the period of the year when mosquitoes (vectors), potentially carrying infective heartworm larvae, are active. The initial dose must be given within a month (30 days) after the dog's first exposure to mosquitoes. The final dose must be given within a month (30 days) after the dog's last exposure to mosquitoes.

When replacing another heartworm preventive product in a heartworm disease preventive program, the first dose of Tri-Heart® Plus chewable tablets must be given within a month (30 days) of the last dose of the former medication.

If the interval between doses exceeds a month (30 days), the efficacy of ivermectin can be reduced. Therefore, for optimal performance, the chewable tablet must be given once a month on or about the same day of the month. If treatment is delayed, whether by a few days or many, immediate treatment with Tri-Heart® Plus chewable tablets and resumption of the recommended dosing regimen minimizes the opportunity for the development of adult heartworms.

Monthly treatment with Tri-Heart® Plus chewable tablets also provides effective treatment and control of ascarids (*T. canis*, *T. leonina*) and hookworms (*A. caninum*, *U. stenocephala*, *A. braziliense*). Clients should be advised of measures to be taken to prevent reinfection with intestinal parasites.

EFFICACY: Tri-Heart® Plus chewable tablets given orally using the recommended dose and regimen, are effective against the tissue larval stage of *D. immitis* for a month (30 days) after infection and, as a result, prevent the development of the adult stage. Tri-Heart® Plus chewable tablets are also effective against canine ascarids (*T. canis*, *T. leonina*) and hookworms (*A. caninum*, *U. stenocephala*, *A. braziliense*).

ACCEPTABILITY: In acceptability trials, Tri-Heart® Plus chewable tablets were shown to be a palatable oral dosage form that was consumed at first offering by the majority of dogs.

PRECAUTIONS: All dogs should be tested for existing heartworm infection before starting treatment with Tri-Heart® Plus chewable tablets which are not effective against adult *D. immitis*. Infected dogs must be treated to remove adult heartworms and microfilariae before initiating a program with Tri-Heart® Plus chewable tablets.

While some microfilariae may be killed by the ivermectin in Tri-Heart® Plus chewable tablets at the recommended dose level, Tri-Heart® Plus chewable tablets are not effective for microfilariae clearance. A mild hypersensitivity-type reaction, presumably due to dead or dying microfilariae and particularly involving a transient diarrhea has been observed in clinical trials with ivermectin alone after treatment of some dogs that have circulating microfilariae.

Keep this and all drugs out of the reach of children. In case of ingestion by humans, clients should be advised to contact a physician immediately. Physicians may contact a Poison Control Center for advice concerning cases of ingestion by humans.

Store at controlled room temperature of 59-86° F (15-30° C). Protect product from light.

ADVERSE REACTIONS: In clinical field trials with ivermectin/pyrantel, vomiting or diarrhea within 24 hours of dosing was rarely observed (1.1% of administered doses). The following adverse reactions have been reported following the use of ivermectin at the recommended dose: depression/lethargy, vomiting, anorexia, diarrhea, mydriasis, ataxia, staggering, convulsions and

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hypersalivation.

SAFETY: Studies with ivermectin indicate that certain dogs of the Collie breed are more sensitive to the effects of ivermectin administered at elevated dose levels (more than 16 times the target use level of 6 mcg/kg) than dogs of other breeds. At elevated doses, sensitive dogs showed adverse reactions which included mydriasis, depression, ataxia, tremors, drooling, paresis, recumbency, excitability, stupor, coma and death. Ivermectin demonstrated no signs of toxicity at 10 times the recommended dose (60 mcg/kg) in sensitive Collies. Results of these trials and bioequivalency studies support the safety of ivermectin products in dogs, including Collies, when used as recommended.

Ivermectin/pyrantel has shown a wide margin of safety at the recommended dose level in dogs, including pregnant or breeding bitches, stud dogs and puppies aged 6 or more weeks. In clinical trials, many commonly used flea collars, dips, shampoos, anthelmintics, antibiotics, vaccines and steroid preparations have been administered with ivermectin/pyrantel in a heartworm disease preventive program.

In one trial, where some pups had parvovirus, there was a marginal reduction in efficacy against intestinal nematodes, possibly due to a change in intestinal transit time.

HOW SUPPLIED: Tri-Heart® Plus chewable tablets are available in three dosage strengths (See DOSAGE section) for dogs of different weights. Each strength comes in convenient packs of 6 chewable tablets.

For Technical Assistance, call Merck Animal Health: 1-800-224-5318

Manufactured for: Intervet Inc. a subsidiary of Merck & Co. Inc., Summit, NJ 07901 Manufactured by: Diamond Animal Health, Inc., a wholly owned subsidiary of Heska Corporation, Des Moines, IA 50327

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ANADA 200-338, Approved by FDA

www.TriHeartPlus.com

Topic: VACCINE REACTIONS

Your pet has received one or more vaccinations today to protect him or her from serious infectious or contagious diseases. Your diligence and care in providing these vaccines in a timely manner, in conjunction with your veterinarian's recommendations, is appreciated by everyone on the veterinary team!

Although these vaccines are considered to be safe and effective and have undergone extensive analysis prior to use in our hospitals, occasionally pets may experience an adverse reaction. Vaccines are biologic products and each pet will have a unique immune system response to a vaccine. One or more of the following conditions may be seen following administration of a vaccine:

- Mild lethargy
- Muscular soreness which may manifest as reluctance to walk or run
- Pain at the injection site
- Decreased appetite
- Mild fever
- Mild vomiting or diarrhea

These mild reactions usually do not last beyond 2-3 days. If your pet exhibits any of these symptoms, symptoms persist longer than 24 hours or worsen at any time, call your veterinary medical team to discuss them.

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Pets may experience more serious conditions soon after vaccination including:

- Swelling of the face or ears
- Hives or significant itching
- Difficulty breathing
- Significant lethargy
- Significant vomiting or diarrhea
- Swelling, discoloration, or infection at the injection site

Rarely, pets may have a type of reaction called 'anaphylaxis'. This can be a life-threatening reaction and requires immediate medical intervention. Symptoms include the serious side effects listed above, along with seizures or collapsing episodes. Banfield hospitals have specific protocols in place to deal with anaphylaxis. Your veterinary team will discuss all treatments and options with you in the event that a serious reaction or anaphylaxis occurs.

If your pet exhibits any of these signs, bring him or her back to the hospital immediately. He or she may need immediate medical treatments or may need hospitalization in the event of a severe reaction. Please contact your local emergency veterinary service if a problem occurs after regular business hours.

Occasionally, pets that have received injections develop a localized reaction indicated by a small, hard lump under the skin where vaccines were administered. Please allow us to recheck your pet if this occurs. These lumps may take 1-3 weeks to appear and 2-6 weeks to resolve. If a lump does not resolve, please contact your veterinary team.

Very seldom, pets that have received a rabies vaccination may develop a small bald spot over the vaccination site. Please contact the medical team if this occurs. These spots are considered to be cosmetic and may be permanent in rare cases.

Pets receiving the nasal form of Bordetella (Kennel Cough) vaccination may experience a mild upper respiratory reaction. These pets may have a very mild sneeze or runny nose for 2-3 days. Please contact the medical team if this occurs.

If your pet has had a vaccine reaction in the past, please talk with your veterinary team prior to your pet receiving vaccinations in the future.

Vaccinations are considered a key component of preventive medicine and are continually being evaluated and improved. However uncommonly they occur, short term and long term reactions are still possible. Please contact your Banfield veterinary medical team if you have any questions or concerns.

Reference and suggested reading:

https://www.aaha.org/public_documents/professional/guidelines/caninevaccineguidelines.pdf

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Examination Report
Friday, May 29, 2020

Dakota Keighley		
Date of Birth	1/26/2020	
Wellness Plan Level	Puppy Early Care Plus	
Veterinarian	Dr. Molly Anne Watson	
Overall Condition		
Weight	This visit: 25.60 Lbs/11.61 Kgs	Last visit: 22.20 Lbs/10.07 Kgs
Body Condition Score (1 to 9)	5: Ideal	
Overall Assessment	Good	
Diet		

WHAT DID WE DO FOR DAKOTA TODAY?

Preventive Care	Why is this important?
Heartworm Prevention	Protects against heartworm infection. Transmitted by a mosquito bite, these blood parasites live in the heart and lungs and cause significant disease, that can include death. It is imperative to keep your pet on prevention all year long.
Roundworms	Treats and prevents a type of worm acquired through contact with feces of infected pets. Contact with the feces of infected pets can cause disease in humans, especially children.
Hookworms	Treats and prevents a type of worm acquired through contact with feces of infected pets. Contact with the feces of infected pets can cause disease in humans, especially children.
Rabies	This vaccine protects against rabies virus, transmitted through the bite or saliva of an infected animal. Rabies infection is almost 100% fatal in animals, and can be spread to humans.
DAPP	This vaccine protects against canine distemper, a highly infectious disease of dogs. This often fatal disease causes serious respiratory disease, gastrointestinal and/or neurological problems. This vaccine also protects against canine parvovirus disease, transmitted through contact with infected dogs or their feces. The virus causes significant gastrointestinal disease and can be fatal without treatment.
Leptospirosis	This vaccine protects against Leptospirosis bacteria which is acquired through contact with infected animals or their urine. Infection can cause serious disease including liver failure, kidney failure or death. Humans are susceptible to Leptospirosis infection through contact with the urine of infected pets.
Lyme	This vaccine protects against Lyme disease. Transmitted by ticks this infection can cause severe symptoms including fever, lameness, kidney or heart disease. Routine tick prevention will also aid in protecting your pet from this disease.

Diagnostic Test	Why is this important?
Fecal Exam	Detects the eggs of intestinal parasites (worms) and microscopic organisms like coccidia. The common intestinal parasites, roundworms and hookworms, can cause disease in humans, especially children.

WHAT WERE DAKOTA'S EXAM RESULTS?

Congratulations! Your pet's health appears to be normal in all of the following areas:		
General Assessment	Coat/Skin	Eye(s)
Ear(s)	Lungs	Heart
Abdomen	Urinary/Reproductive	Rectum/Perineum

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Musculoskeletal

General Neurological

Behavioral

There were some exam findings outside the normal range:

Area: Mouth/Nose

Finding: Abnormal bite or tooth alignment

Recommendation: Thorough oral and dental examination. Your veterinarian will discuss if any additional testing and treatment is recommended.

Preventive care due in the future:

Heartworm Prevention	6/28/2020	Flea Prevention	
Roundworms	6/28/2020	Hookworms	6/28/2020
Rabies	5/29/2021	DAPP	5/29/2021
Leptospirosis	5/29/2021	Bordetella	4/17/2021
Fecal Exam	11/25/2020		

Access your pet's medical records online at anytime! Visit www.Banfield.com

Need to setup your online account?

Go to www.Banfield.com and use your unique client ID to register. Your invitation code = **UPA01C9**

Thank you for bringing Dakota in today. We value your commitment to your pet's health and look forward to continuing our partnership to provide the very best care for many years to come. If you have any questions please contact us at (614) 487-0195. We look forward to seeing you at your next visit.