



Spring 2010

Staff Welcome

Oh, to enjoy being outdoors at this time of the year! It is really exciting to see pet owners walking their dogs and kids on bike's or at the park.

As you prepare for this spring and summer getting ready for the flowers to bloom, we bring you articles on how to protect your pets from seasonal dangers such as heartworm, fleas, ticks and so forth.

We are also offering you some great savings on featured services and products. To take advantage fo these great specials, please call us at 920-326-3020.

In this newsletter we will feature:

- Heartworm: The Parasite
- Frequently Asked Questions
- A Young Entrepreneur
- Kid's Corner
- Spring Into Savings
- 4th Annual Coloring Contest Winners
- Plan Ahead for Summer Vacations
- Dog Training Classes
- Dodge County Humane Society Needs Your Help!

If you missed any of our past newsletters, please feel free to visit our website to download them.

www.marshviewvetclinic.com

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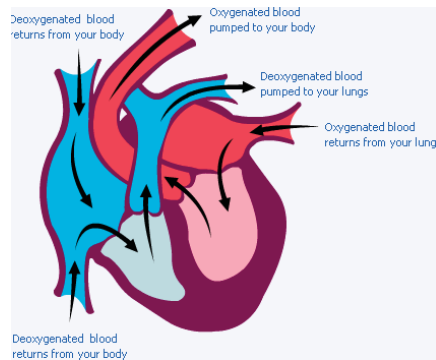
Heartworm: The Parasite

Heartworm (*Dirofilaria immitis*) is a fairly large worm, up to 14 inches long, that in adulthood lives in the heart and pulmonary arteries of an infected dog. Dogs acquire this infection through mosquito bites as mosquitoes readily pick up larval heartworms from infected dogs and carry them to new dogs. Some geographic areas have severe heartworm problems while other areas have virtually none. In order for the parasite to establish its presence in an area, the following conditions must be met:

- * Types of mosquitoes capable of carrying larval heartworms must be present.
- * The weather must be warm enough to allow heartworm larval development within the mosquito.
- * There must be infected dogs (or coyotes) in the area.
- * There must be vulnerable host dogs in the area.

When these conditions come together, an area becomes endemic for heartworm disease.

The detailed version of the heartworm story:
Let's follow the worm's life cycle.



The Adult Heartworm

Blood going to the lung to pick up oxygen is received first by the right atrium of the heart, then sent to the right ventricle (the pumping chamber) and then sent out to the lung via the pulmonary arteries. This path is outlined in the blue pathway in the graphic below.

The adult heartworm is fairly large, several inches in length, and it prefers to live, not in the heart, but in the pulmonary arteries. It swims into a cozy tubular artery, where it is massaged and nourished by the blood coursing past it. In the pulmonary arteries of an infected dog, the worm's presence generates a strong inflammatory response and a tendency for blood to inappropriately clot. If enough worms are present, the heart must work extra hard to pump blood through the plugged up arteries.

If the worm infection is a heavy one (over 25 worms for a 40 lb dog), the worms begin to back up into the heart's right ventricle (the chamber which pumps blood through the lung). The worms actually take up a significant amount of space within the heart, space that could have been taken up by blood. With less blood going through the heart, there is less blood being pumped out to the lung.



When over 50 worms are present, the ventricle is completely full and the atrium, the chamber receiving blood from the rest of the body, begins to fill with worms.

Critter Care

When over 100 worms are present, the entire right side of the heart is filled with worms and there is very little room for any blood to be pumped. This drastic phenomenon is called “Caval Syndrome” and most dogs do not survive it.

Microfilariae (First Stage Larvae)

With adult male and female worms present, mating begins to occur. Heartworms do not lay eggs like other worm parasites; instead they give live birth and the baby worms are called microfilariae.



Microfilariae in a blood smear

Microfilariae are released into the circulatory system in hopes that they will be slurped up by a

mosquito taking a blood meal and carried to a new host. Microfilariae may live up to two years within the host dog in whom they were born. If, after this period, a mosquito has not picked them up, they die of old age. Microfilariae may also be transmitted across the placental barrier to unborn puppies if the mother dog is infected with heartworm. It is important to realize that such puppies will not develop adult heartworms or heartworm disease from these microfilariae; in order for a heartworm to reach adulthood, it must be passed through a mosquito.

Parasitic worms have 5 larval stages and are termed L1, L2, L3, etc. Heartworm microfilariae are first stage larvae: L1s.

Inside the Mosquito

So, let us continue to follow the young heartworm’s development inside the mosquito who has taken it in with a blood meal. Within the mosquito’s body, the microfilariae will develop to L2’s and finally to L3’s, the stage capable of infecting a new dog. How long this takes depends on the environmental conditions. In general, it takes a few weeks. A minimum environmental temperature of 57 degrees F is required throughout this period. The process goes faster in warmer weather.

Reprinted with permission of Wendy Brooks, DVM, and the Veterinary Information Network

Frequently Asked Questions

Below Dr. Hookstead answers a couple frequently asked questions from pet owners.

1. My dog has gained some weight over the winter. What is the best way to help him/her shed these extra pounds?

Answer: Unfortunately we are seeing more and more dogs over weight. Except for a few reasons (Hypothyroidism, Cushings, and genetics) weight gain is a result of the unbalanced combination of calories and activity. The first step in helping your pet loose some weight is to understand exactly how many calories he/she is getting each day. With a simple chart accounting for all avenues of calories (dog food treats, table scraps, cat food, etc.) your veterinarian can quickly determine what your pet is consuming compared to what it “should” be consuming. Next, you need to increase your pet’s activity level. Start slow, as you would your own exercise program and build slowly. Remember that older dogs or dogs with arthritis will have some limitations and therefore, calories will need to be monitored closely. I was guilty of letting both my Shorthaired Pointers get a little “chubby” over the winter months. I am happy to report that with calorie control and many 3 mile walks, they have lost a combined total of 17 pounds and are back at their healthy weights.

2. When using Frontline products how long do I have to wait to give my dog a bath? Will it wash away?

Answer: The manufacturer’s recommendation is to not bath your pet or have him/her swim 24 hours prior to application and then for 24 hours after application.

Now Serving over 1900 Clients and 3000 Patients. Thank you for your continued trust and loyalty of the Marsh View Veterinary Clinic.

Young Entrepreneur Shows Her Love for Pets



Every once in a while we discover a unique story we think you would enjoy. Please meet Sydney, a young entrepreneur.

My name is Sydney and I am in sixth grade. I love all sorts of pets. If I had my way, my home would have dogs, cats, and all sorts of furry animals, but unfortunately we are not allowed to have any pets with fur. My dad, brother and younger sister have allergies and so it simply isn't possible. But, knowing how much I like animals, my parents allowed me to get a pet turtle, Dragon.

I like pets so much that I began my own business selling jewelry with pet themes. My handmade jewelry includes bookmarks, bracelets, key chains and more recently I added earrings. This past fall, I worked at the "Run For the Paws" 10K/5K run selling my jewelry. It was very exciting, but made me nervous because I couldn't be my shy self. I actually had to explain what jewelry I had and what I could make if someone wanted something different. This was quite an experience for me.

When asked why I started my own business, I explained that each year I am given the opportunity to attend a Youth Leadership Conference in the summer. But in

order for me to attend, I have to earn my own way. Between flight, hotel, food, and spending, it costs me around \$800. So, in order to go, I got to work creating jewelry. This year we get to go to Orlando. I am really excited because we get to leave two days before the conference to see a couple of the theme parks.

If you would like to see what I make, or possibly place an order, please e-mail me at my family's e-mail address: zimdars@hotmail.com. I will look for charms that meet the theme you are looking for. If you have specific colors you like, please let me know that too (give me your favorite 3). Prices depend upon the charm(s) you would like. When you contact me, I will look for charms that you have requested. Earrings start at \$5 (more simple) and bookmarks and keychains start at \$3. I will let you know prices before I finalize any sales. I do have some keychains and bookmarks in stock which I could send you a picture of, if you would like.

I really enjoy making jewelry and have added a new line of sports themes. Since I'm a competitive swimmer, I just thought this fit right in with what I enjoy doing. Some of my other hobbies are playing trumpet and this year I am very excited to be an Oompa Loompa in Willy Wonka, which is our school district's spring play.

If you would like to see samples of my jewelry, please feel free to visit the Marsh View Veterinary Clinic.



Photo by Skyhurst Photography

Kid's Corner

This quarter we would like to feature David Hookstead, son of Dr. Jeff and Rita Hookstead. David is a graduating Senior from Randolph High School. When Marsh View Veterinary Clinic first opened its doors in 2007, David worked as our Kennel Worker.

Throughout David's high school, he has taken part in Mini-Business World, FFA Extemporaneous Speaking, Basketball, Golf, Rube Goldberg, Spanish Club, Academic Bowl, Academic Decathlon, Yearbook, Filming of Football and Basketball Games, Announcer for JV Football Games, and School Plays. In David's free time, he enjoys socializing with friends, reading, writing his own screenplays, and is an avid paint baller. David is also very active in his Youth Group at First Reformed Church of Randolph. He is looking forward to attending Montana State University of Bozeman to study Film Production and he hopes to eventually graduate from USC with a Masters Degree in Film Production. We wish David the best. Congratulations David and Good Luck.

Protect Your Pets This Spring



Purchase
12 Doses of
Heartgard Plus
or



12 Doses or
Frontline Plus
or
Mix & Match
Heartgard Plus

or Frontline Plus
to equal 12 Doses

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Coloring Contest Winners

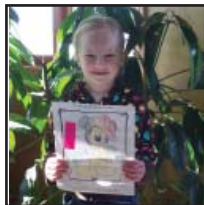
Congratulations to the winners of our 4th Annual Coloring Contest.

4K Grade Winners

1st Place



2nd Place



3rd Place

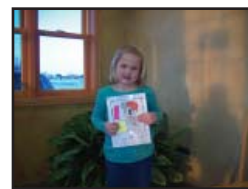


1st Grade Winners

1st Place



2nd Place



3rd Place



2nd - 3rd Grade Winners

1st Place



2nd Place



3rd Place



4th - 5th Grade Winners

1st Place

Not Pictured

2nd Place



3rd Place

Not Pictured

Obedience Classes Dodge County Canine

Thursday Nights

Puppy - 6pm
Beginner - 7pm

April 1 - June 4

(You can join a session at anytime!
Call 920.210.0764 to register.)

Outdoor Obedience Classes

Ready to rumble, or should we say run? These classes are guarantee to teach your dog something new and provide a great time. Exercise is also in the plan for both the dog and owner. You don't have to be in tip-top shape for these classes, but everyone is guaranteed to go home tired.

Sessions Start May 5
at Marsh View Vet Clinic!
Six sessions/\$90.00

Class Requirements:
Attended basic obedience class
Regular 6' leash and 20-30' lead
Nummy, yummy treats
Tennis shoes for the humans!

Call Kim to register, 920.210.0764
or send her an e-mail,
kimberly@dodgecountycanine.com.

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Dawn to Dusk

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Or

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*All aggressive dogs must be on leash at all times

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326-3020 or 326-5PET(5738)
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Marsh View

Veterinary Clinic

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*“Compassionate, Quality Care at
Competitive Prices”*

Dr. Jeff Hookstead, Jennie Braaksma, CVT, , Pam Drzonek,
Vet. Asst., Jody Smith, Groomer,

Hours: Mon., Tues, Thurs., Fri. , 8:00am - 5:00pm;

Wednesdays: 8:00am - 7:00pm, Saturdays 8:00am - 12:00pm
920-326-5PET (5738) or 920-326-3020

Clinic Shout Outs!

Dear Dr. Jeff,

I just thought you should know how much I appreciate you as my dog's veterinarian. You have always been there for my dogs. Even when I called you at 12:30 in the morning, you answered. You truly care for people and their pets. I always know I can count on you to give good care to my dogs. Your whole staff is just as great! Your new groomer does a wonderful job! I have moved around a lot in the past five years. I have met a lot of different vets. You have been the best one. I just want to say thank you for that.

Kristin, Percy, and Lola



Question of the Quarter

Your chance to win a \$25 Gift Certificate to Denise's.

The 1st person to call us at 326-3020 or 326-5PET (5738) on May 1st or after, with the correct answer to the question below will win a \$25 Gift Certificate to

Denise's

Question:

How many State Championships has the Randolph High School Boys Basketball Team Won?

Look Inside for Great Educational Articles and Spring Specials

Dodge County Humane Society Needs Your Help!



My name is Waldo and I am an older gentleman who made my way to the shelter near the end of March. Some nice people found me wandering aimlessly around the fairgrounds, cold, scared and alone, so they scooped me up and brought me to the humane society where I have been ever since. I have been sitting here patiently waiting for my family to save me and take me home, but so far

no one has come. Since I have been here the staff has treated me so kindly, they give me fresh food and water every day, let me outside often, and even walk me when they can, but I have become very depressed lately, despite their kind efforts. I am in desperate need of a family who has a little extra time in their day, some free space in their home, and a little extra love in their heart, who would be willing to call me theirs until the end of time. My old bones are aching and my eyes aren't what they used to be, I won't need a whole lot of attention and I promise that I won't get in your way, I just need a warm place to sleep and the occasional pat on the head. Won't you please help make me comfortable? I hope you can find it in your heart to help me! I would be forever grateful.



Tigger is a very handsome orange tabby who was surrendered to our shelter way back in October because his family had to move and they were unable to take him with. He is a little over five years of age, has already been neutered and front paw declawed, is up to date on his vaccinations and is more than ready

to find his forever home! Tigger very much enjoys the company of other cats, although he is not crazy about dogs, and just loves people of all ages. This guy would do very well in a home with a lot of nice window sills for him to lie in and bask in the sunshine or one that has a nice cozy lap to keep him comfortable. Poor Tigger has been here for what seems like forever and would really like to find his new home soon!! So please, come visit our shelter and check him out today!

The shelter is now located at N6839 State Road 26, Juneau, WI 53039. Our hours have also changed. We are now open Monday, Friday, Tuesday, and Saturday 1-5pm, Thursdays 1-7pm, and are closed Wednesdays, Sundays and Holidays. The phone number is 920-386-0000 if you have any questions. Also, you can check out our website at www.dodgecountyhumanesociety.org for more information.