

Janssen Veterinary Clinic

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www.janssenvetclinic.com



Dr. Scott Thompson | Dr. Julie St. Peters | Dr. Chris Ernst | Dr. Tad Thompson | Dr. Steve Nichols



Dear Clients and Friends,

Looking back on 2009, I hope that you have had the opportunity to count many blessings in the past year. We've all experienced some exciting times, and we're fortunate that one constant in our lives is the extraordinary bond we share with our companion animals.

The team members at Janssen Veterinary Clinic understand the importance of your pet's needs and are committed to providing optimal care to enhance the lives of these special animals. We strive to maintain our facilities and equipment to the highest standard while continuing to educate ourselves with the most current veterinary knowledge and technology. We work hard to provide a supportive and professional relationship with you and we are honored to be given the opportunity to work along side you for the well-being of your animals.

Looking forward in 2010, we are excited to share our new knowledge and technology with you. We invite you to participate in the many JVC educational events—or feel free to stop in and take a personal clinic tour and meet your veterinary team. We always appreciate the opportunities to make new friends.

We wish you and your pets a safe and enjoyable year.

Sincerely,

Scott



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Extraordinary Measures...

Anyone who stopped in or drove past the clinic this summer may have had the opportunity to meet the little chestnut filly who decided she was in charge of the place. The baby girl had a rough start, and has quite a tale to tell.

The story starts with the filly's mother. Calloway's Glorious Morn (Cally) was an extraordinarily special 24 year old American Saddlebred mare. She came to us on May 15th, 2009, thirty days before her expected due date. Her owners were concerned



because she had some vaginal discharge, was developing a premature udder, and had decided she wasn't really interested in eating. Her temperature was 106.8° F (normal for a horse ranges from 99.5° and 101.5° F).

Doctors immediately went to work. Diagnostics performed

included physical examination, laboratory blood work, rectal palpation with ultrasound, and transabdominal ultrasound with abdominal paracentesis. It was determined that Cally was suffering from multiple medical disorders including severe ascending placentitis (infection of the placenta), lipemia (elevated lipids, a metabolic syndrome rarely seen in full-sized horses) and peritonitis (inflammation of the peritoneum, the tissue that lines the wall of the abdomen and covers the abdominal organs). Given all of Cally's medical issues, she was given very guarded prognosis for delivering a full term healthy foal.

However, information provided by both the transrectal and transabdominal ultrasounds indicated Cally's foal was viable and strong. Cally also had a history of delivering healthy foals up to two weeks early, so there was hope for a successful delivery in this case as well. Cally settled in for an extended stay at the hospital and was treated for all of her various ailments along with supportive care including antibiotics, IV fluids, enteral nutrition support, and

metabolic stimulants. Her condition was closely monitored on a daily basis with periodic laboratory blood work and transabdominal ultrasounds. Unfortunately, Cally's stressed system would soon have to deal with the added challenge of laminitis, or founder.

On May 25th, still 2 ½ weeks early, it was determined that Cally was attempting to deliver her foal. As a result of premature placental separation, Cally required assistance in the delivery, but she successfully gave birth to a live filly—a red-haired girl just like her momma, thereafter to be known as Callie-Anne.

Although she was premature, initial examination found Callie-Anne's vital organ systems were sufficiently developed and did not require additional life support. Callie-Anne had very little suckle reflex, however, and coupled with a lack of quality colostrum (first milk) from Cally, this made early nutritional support a challenge. From this point Callie-Anne underwent significant ICU treatments including multiple plasma transfusions, enteral as well as intravenous nutritional support, and preventive antibiotic therapy. To feed her, a nasogastric tube was inserted (like tube deworming), then Cally was milked by hand and the milk run through the tube directly to Callie-Anne's stomach. The tube stayed constantly in place because Callie-Anne was being fed every two hours and the contraption holding the tube in place during this time made her greatly resemble a sock puppet.

Cally, meanwhile, continued to deteriorate in the days following the delivery. And unfortunately, before she ever learned how to nurse on her own, baby Callie-Anne lost her mother.

With the loss of Cally, a surrogate nurse mare was located to help take care of the orphaned filly. Callie-Anne still didn't really understand nursing and her step-mom wasn't all that sure she wanted her nursing anyway. But after 12 days of 24 hour intensive care, Callie-Anne was stable, nursing with enthusiasm and developing a good relationship with her step-mother. Callie-Anne stayed with us for quite a while, growing into a strong feisty girl who was insulted if visitors to the clinic failed to come visit her paddock and admire her. In mid-September, Callie-Anne finally was discharged. She went to a friend's farm where she can grow up with other kids her age and look forward to her future as an American Saddlebred Show horse.

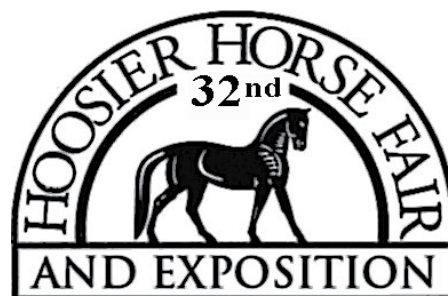
Thanks to Skip & Linda Beltz for all their efforts on behalf of Cally & Callie-Anne, and for allowing us to share their story.

JVC Team
Members at the
6th Annual Mutt
Strut Humane
Society Benefit
—Indianapolis
Motor Speedway
indymuttstrut.org



"WHEREVER MAN HAS LEFT HIS
FOOTPRINT IN THE LONG ASCENT
FROM BARBARISM TO CIVILIZATION
WE WILL FIND THE HOOFPRIENT OF
THE HORSE BESIDE IT."

— JOHN MOORE



APRIL 9-11, 2010

INDIANA STATE FAIR GROUNDS

The annual Hoosier Horse Fair & Expo attracts many thousands of attendees, hundreds of commercial vendors, sponsors, clinicians, special entertainment, volunteers and, of course, horses, horses, horses! Plan the weekend for Education, Entertainment, and Great Deals.

Information & Advance Tickets are available online at:

www.indianahorsecouncil.org/horse_fair.htm

New Staff



Jennifer Brenton, RVT

Jennifer resides in Noblesville and joined the Janssen family in July of 2009 as a full time Registered Veterinary Technician (RVT) for the Small Animal practice. Jennifer graduated from Murray State University in Murray, KY in December of 1999 with a Bachelor of Science in Agriculture in the area of Animal Health Technology and a Certification in Artificial Insemination. She has spent her career in both private practice and surgery referral practice and is dually licensed in Michigan and Indiana. She is currently the local District Representative for the Indiana Veterinary Technicians Association as well as a member and trainee of the National Animal Health Emergency Response Corps which deploys registered technicians and veterinarians to emergency and disaster situations. In her spare time, she enjoys reading, writing, volleyball, softball, archery, trapshooting, diving and horseback riding.

JVC Genetics Update

2009 has been an exciting year of continued growth for JVC Genetics. It has been our pleasure to provide service to our clients who continue to support the advancement of their genetic programs throughout the past year. There are also several important updates to our website. At www.jvcgenetics.com we provide access to detailed information regarding our services including laparoscopic insemination and embryo transfer, as well as semen collection, processing and storage for small ruminants. The online calendar outlines our schedule and locations for 2010. Please also visit our updated user-friendly, online semen catalog to aid in the promotion and sales of your genetic lines. Thank you for your support in 2009. We look forward to serving you in 2010.



Continuing Education:

Dr. Scott Thompson

Indiana Veterinary Medical Association (IVMA) Winter Conference
Indiana Assoc. Equine Practitioners (IAEP) Spring & Fall Conference
Host/Participant Equine Dentistry Focus presented by Dr. Jack Easley
American Assoc. Equine Practitioners (AAEP) Annual Convention
Veterinary Study Group (VSG) Winter and Fall Meeting
Indiana Farriers Association (IFA) Fall Meeting

Dr. Julie St. Peters

North American Veterinary Conference
American Animal Hospital Association Annual Conference
Circle City Small Animal Dentistry

Dr. Chris Ernst

IAEP Spring & Fall Conference
AAEP Annual Meeting
Indiana Farriers Association (IFA) Fall Meeting

Dr. Tad Thompson

IAEP Spring & Fall Conference
AAEP FOCUS Meeting (Equine Ophthalmology)
IVMA Winter Conference

Dr. Steve Nichols

International Veterinary Acupuncture Society (IVAS) World Congress
Advanced Equine Acupuncture Course, Chi Institute

Leslie Thompson, MBA

VSG Leadership Group

Kathleen Everson

IVMA Winter Conference

Dana Thompson

IAEP Spring & Fall Conference

Autumn Cline

IAEP Spring & Fall Conference

Evelyn Niemann, RVT

IVMA Spring & Fall Conferences

Casey Sutphin

Doug Taylor Accounting/Finance Seminar

Linda Buse, RVT

Circle City Veterinary Dermatology Update
Webster University Marketing & Business Practices

Jennifer Stewart, RVT

IAEP Spring & Fall Conference

Jennifer Brenton, RVT, BS

North American Veterinary Conference
IVMA Winter Conference
NAHRC Training

In the Community:

Dr. Scott Thompson

Speaking/hosting: Hamilton County and Boone County Horse & Pony Clubs, FFA Career Site Tours, host to the Indiana Farriers Association, member of the Hamilton County Board of Health, Purdue University Guest Speaker for Veterinary Medicine Department

Dr. Chris Ernst

Speaking: Purdue University Veterinary Teaching Hospital (PUVTH) Equine Stallion Collection presentation, Purdue University Animal Sciences Equine Reproduction Wet Lab.

Dr. Tad Thompson

Purdue University Veterinary Teaching Hospital (PUVTH) Equine & Sheep Reproduction presentation, PUVTH Equine Stallion Collection presentation.

Dr. Steve Nichols

Consultant for Indianapolis Zoo (Endoscopy & Acupuncture)

Autumn Cline

Boone County 4-H Leader & Horse Judging Coach

Vickie Benefiel

Equine Council of Tipton County Board Member

Casey Sutphin

2009 Secretary, Boone County Horseman's Association

Clyde Stringer Award

An excerpt from the Indiana Farriers' Association Newsletter:



Dr. Scott Thompson received the 2009 Clyde Stringer education award, exceeding the IFA's definition of the recipient. Dr. Thompson has indeed "gone out of his way to promote education and communication between veterinarians and farriers and shared his knowledge and experience for the good of all."

Dr. Scott Thompson is the humble recipient of this award and looks forward to continuing to work closely with the IFA in the future. All of us at Janssen's greatly appreciate the farriers' role in maintaining the health, comfort and optimum performance of our horses. The members of the Indiana Farrier's Association continually strive to improve their skills and increase their knowledge in pursuit of excellence in their chosen field, and we thank them for their hard work and dedication. www.indianafarriers.org

Pet Dental Month

Janssen Veterinary Clinic would like to stress the importance of dental care for your pets. After our pets eat a meal, plaque begins to accumulate on the teeth. Plaque consists of food material, saliva and bacteria. If plaque is allowed to remain on the teeth, it begins to mineralize and forms brown tartar that you can see on your

pet's teeth. Over time, the bacteria cause the gum line to recede and the teeth to become loose. Sometimes this results in an abscessed or loose

tooth that must be extracted. The bacteria can enter the bloodstream and will be carried throughout the body. The bacteria can proceed to weaken the liver, kidneys and heart.

Dental disease manifests itself in many ways. Our pets are better than we are at hiding pain. Some signs of dental disease might include: sore mouth when eating, acting depressed, bad breath or drooling. Diseased gums are thickened, reddened and bleed easily. A broken tooth can be very painful, especially if the pulp is exposed.

Janssen Veterinary Clinic will help

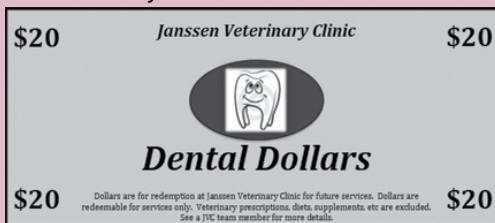
you decide if your pet would benefit from a dental cleaning. If a dental is performed, your pet must be anesthetized. We have a well-trained staff to do the cleaning, oral examination and monitoring of anesthesia. We will ultrasonically scale the tartar from the teeth and follow up with polish. The doctor will remove any diseased teeth.

Finally, the teeth are given a fluoride treatment.

Your pet will go home with a clean, fresh mouth. We may recommend a home dental care program

suited for your pet's needs. Our goal is to have happier and healthier pets.

February is National Pet Dental Month. At Janssen Veterinary Clinic, we are very excited about offering a unique incentive. When a dental cleaning is given in the months of February & March, the patient will receive \$20.00 in JVC Dental Dollars to be used on a future service. An additional \$10.00 in Dental Dollars is available to all patients that have a Pre-Anesthesia Blood Test through our reference lab, Antech Diagnostics. Please call the clinic for details and to schedule your appointment today!



What's New?



Canine Flu!

H3N8 Canine Influenza Virus (CIV) was first identified in Florida in the Greyhound racing dog population in 2004. It is suspected to have mutated from the Equine Influenza virus. Since CIV is a "new" virus, any dog exposed is at a high risk. At this time, in its current form, it is only contagious from dog to dog and is not zoonotic (not contagious to people).

Like the human flu virus, some dogs can be exposed to the virus but not exhibit any clinical signs. In dogs that do become sick, signs can be as mild as a cough or runny nose. More severe symptoms can include high fever, lack of energy, loss of appetite, or may even progress to pneumonia and death. However death is rare, less than 1%.

Transmission occurs from direct contact with an infected dog or with that dog's secretions. Preventative measures should be taken if your dog will be in high-risk situations, such as in a shelter, dog show, or kennel, or if your dog will be traveling. If your dog is at high risk, please consult your veterinarian about vaccination.

If your dog develops CIV, treatment options can include rest, good nursing care, antibiotics, cough suppressants, hospitalization, IV fluids and IV antibiotics. X-rays may be recommended if pneumonia is suspected.

Do not ignore a cough or runny nose. Although Canine Influenza does resemble other respiratory diseases, such as kennel cough, it is best to consult your dog's veterinarian at the initial sign of symptoms, especially if there has been known previous exposure.

If your dog is at high risk, please consult your veterinarian about vaccination.

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Shadow's Acupuncture Adventure

"Shadow" Scheid, a 7 year-old Standard Poodle, came to JVC last November on an emergency basis. We had not seen Shadow previously, but his owners, Caryl and Ed, had been referred to us by one of our many loyal clients. Shadow had gone from acting and appearing perfectly normal to unable to stand. After referral to a local veterinary specialty center it was determined that Shadow had suffered from a fibrocartilaginous embolism (FCE). The effect of the embolism equates to a bruise of the spinal cord. Shadow could "feel" his limbs, but had no strength or coordination to stand or move.

Conventional western medicine currently has no treatment to address FCE. Nursing care of the patient and time are the best we have to offer. Greater than 50% of all dogs affected by the disease will return to near normal function. The greatest variable is the time for recovery. When it is your pet is afflicted, time seems to be your enemy not your friend.

Caryl and Ed opted to come back to JVC after Shadow was dismissed

from the specialty center. They were interested in doing anything they could to help speed his recovery. We discussed and collectively decided to initiate acupuncture treatment. The goal of the treatment was to assist in the reconnection of Shadow's peripheral nervous system to his central nervous system. A regimen of weekly acupuncture treatments was started. The treatments consisted of both "dry needle" and electro-acupuncture. Shadow has shown steady improvement in his condition.

Ed brought Shadow by for a surprise visit recently to demonstrate how well he was doing. Although not perfectly coordinated, Shadow ran around the JVC parking lot. Shadow's owners are commended for their dedication to him and his recovery.

Remember that Janssen Veterinary Clinic now offers alternative therapies including acupuncture for both our small animal and equine patients. Please contact one of our team members to schedule a consultation with Dr. Steve Nichols to see if an alternative approach might benefit your pet.

Home Delivery from Vetsource

Janssenvetclinic.com is your gateway to Vetsource Home Delivery Online Ordering

Exclusively for Janssen Veterinary Clinic Clients

Offering you a variety of pharmaceuticals, prescription diet foods, popular over-the-counter medications and supplements.



Many of you have taken advantage of our Vetsource Home Delivery service since its introduction last year. In the past, because of the cost of processing, handling, storing, and tracking all of our inventory, we haven't always been able to compete with the pricing of internet pharmacies. However, now you will be able to place orders online 24/7 at our website and your items will be shipped directly to you from our suppliers. This not only cuts down our overhead and saves you money, but also assures your medications come from a dependable supplier. This allows us to make a much wider range of products available to you.

To assist first time users we have provided step-by-step instructions for establishing an account and ordering. If you are uncomfortable ordering on line, you may place orders by phone at (877) 738-4443.

Please Note: A current Doctor/Client/Patient relationship with Janssen Veterinary Clinic is required for order approval. All orders are reviewed daily by a technician and veterinarian and then approved for shipment. To use VetSource Home Delivery:

- ✓ Go to www.janssenvetclinic.com
- ✓ On the right side of the screen click on the Home Delivery - VetSource icon
- ✓ Search for an item by category, by featured products or by product name
- ✓ Confirm product by description
- ✓ Choose quantity desired
- ✓ Add to cart (blue cart icon)
- ✓ "Checkout" (right side of screen) when ready
- ✓ Choose preferred shipping mode
- ✓ Enter coupon code if applicable
- ✓ Continue shopping or choose "Checkout Now" when ready
- ✓ Sign up for account if new user or sign in if current account holder
- ✓ If new user, enter email address and select a user name and password then enter name, address and phone number
- ✓ Choose "Create New Account"
- ✓ Select pet or if new user add a pet, save information and then select "Continue"
- ✓ Confirm information and enter payment method
- ✓ "Place Order"
- ✓ Print a receipt

Once you have created an account, you will be able to log on to the website 24/7 to place orders. You will also have access to account management options in the blue column on the right side of the screen. Clients can also take advantage of "auto ship" which allows you to set up automatic monthly shipments of products you use and frequently order. We are pleased to offer our clients this service, and we encourage you to take advantage of it!

WE ARE PLEASED TO ADD VIDEO ENDOSCOPY TO OUR DIGITAL FAMILY AT JANSSEN VETERINARY CLINIC. AS WE HAVE ALREADY DONE WITH X-RAY AND ULTRASOUND, WE ARE NOW ABLE TO DIGITALLY STORE ENDOSCOPIC EXAMS—BOTH AS VIDEO AND STILL IMAGES. WE ARE ALSO EXCITED TO HAVE A NEW, LONGER 3.2 METER SCOPE ALLOWING MORE "IN DEPTH" EXAMS ON LARGER HORSES. CONTACT US WITH ANY QUESTIONS YOU MIGHT HAVE.



Small Animal Ultrasound Services

Many of our clients are familiar with the use of ultrasound as a diagnostic tool in equine medicine. While the doctors are very thorough at taking patient histories and performing physical exams, the ability to look inside the body with any modality increases our diagnostic abilities.

Ultrasound is an imaging technique that produces sound waves that are beamed into the body causing return echoes. Those echoes are recorded to "visualize" structures beneath the skin. Reading those images requires significant training. Over the course of this year, the clinic will be investing in our staff by sending them to additional continuing education opportunities that emphasize abdominal ultrasound.

While it can be used for several purposes, there are two main reasons we will perform ultrasound at for our patients. First, using ultrasound on intact female patients to assess pregnancy. This allows us to confirm or rule out pregnancy and estimate more accurately the number of offspring. Ultrasound can also provide the ability to evaluate most of the solid structures in the abdomen including the liver, gallbladder, pancreas, kidneys, bladder, prostate, uterus and ovaries. This enables us to determine whether or not significant abnormalities exist in those structures.

Our ultrasound equipment has the capability to store images digitally, allowing our veterinarians to have access to them at a later time if comparisons are desired. Digital imaging also enables us to send images to a specialist for review and consultation. Janssen Veterinary Clinic strives to provide complete and modernized patient care, and we are excited to have the ability to offer ultrasound services to our clients!

EQUINE INSURANCE BASICS

You know when your veterinarian puts your horse's name and the phrase "colic surgery" in the same sentence, your life is about to get a lot more stressful. In the case of any emergency, our veterinarians do all they can to make sure your medical questions are answered and you have a good picture of what to expect in the days to come. However, many times the financial strain can significantly add to your worries. With that in mind, there are programs available that we would like to bring to your attention.

CareCredit® is a convenient, low monthly payment program to help you accept the best treatment recommendation for your four-footed friends. No Interest Payment Plans and Low Interest Extended Payment Plans are available. CareCredit has the added benefit of being a healthcare payment option for the two-footers in your family, too. It can be used for a variety of services including dental and vision care. More information is available at www.carecredit.com.

Preventicare™ is an equine well-

ness program offered by Pfizer Animal Health. It is a great way to get some added value out of some of the regular maintenance health care you're already doing. If you are feeding your horse the Strongid C or C2X daily deworming product and deworming twice yearly with Pfizer's Quest or Quest Plus, then \$50/year enrolls your horse in the Preventicare Colic Assistance Program which provides up to \$5,000 per horse toward colic surgery and aftercare. Additional requirements include maintaining current vaccinations and regular dental care. In order to verify compliance, dewormer must be purchased through Janssen Veterinary Clinic. For your convenience, these products and others are available through our competitively priced Vetsource Home Delivery Program, available online at www.janssenvetclinic.com or by phone at (877) 738-4443. For full program details, please visit www.equinepreventicare.com.

Equine Insurance is a bit more expansive and can be complex. Since each horse's health history is unique, policies are written for each individual and there are many options that should be discussed

in detail with your insurance provider. On some occasions, a veterinary insurance exam may be required to establish the horse's current health status. There are numerous situations where you might want to consider purchasing equine insurance. If you are thinking of purchasing a horse and have him on trial, you might want to have him insured in order to protect yourself from a "you break him, you buy him" situation. Many horses have "Major Medical" which helps cover the cost of injuries and surgeries. "Mortality" coverage reimburses value if a horse dies. "Loss of Use" is paid if a horse is permanently incapacitated and unable to perform the intended purpose. Additionally, "Breeding Infertility" policies cover stallion & mares against reproductive failure. Resources for further information are available at Markel Equine Insurance (www.horseinsurance.com), Equine Insurance Specialists (www.insureyourhorse.com) and Bayer Health-Care Animal Health Division (<http://www.bayerdvm.com/Resources/homeCare/aaep-Brochures.cfm>).

"Dogs have owners, cats have staff." - Anonymous



Xylitol is a sugar substitute that is found in many sugarless gums and candies. It also can be used in baking and is being used in toothpaste. The canine pancreas is confused by the chemical structure of Xylitol and as a result, releases too much insulin. This causes the dog to experience low blood sugar, and if enough exposure occurs, can proceed to liver failure and death. Even small amounts can cause symptoms in a dog. Symptoms of xylitol exposure include vomiting which progresses to weakness, lethargy, diarrhea, collapse, seizures and death.

In 2008, the ASPCA Poison Control Center reported 4000 cases of xylitol poisoning. This is greatly increased from the 2 cases seen in 2002. This is an alarming number because this toxicity is life threatening, and the more products that use xylitol the more poisonings we will see.

Because xylitol is absorbed quickly, please call us immediately if your dog ingests a product containing xylitol. Check product labels and keep products containing xylitol away from pets. Remember just 1-2 pieces of gum can be toxic to dogs.

FINANCIAL POLICY: COMMUNICATION AND UNDERSTANDING OF FEES AND FINANCIAL POLICY ARE VITAL TO DEVELOPING AND MAINTAINING A PROFESSIONAL RELATIONSHIP BETWEEN OWNER AND VETERINARIAN. PAYMENT IS EXPECTED AT THE TIME SERVICES ARE PROVIDED. WE ACCEPT CHECK, CASH, VISA, MASTERCARD, DISCOVER AND CARECREDIT. WE ALSO REQUIRE THAT A CURRENT CLIENT REGISTRATION FORM BE ON FILE.

Don't Forget!

Pre-Foaling vaccines. Foals are born without an immune system and are completely dependent upon the anti-bodies they receive in their mare's first milk (or colostrum) for their protection against disease. Boosting your mare's vaccines 1 month before foaling assures that her titer levels will be high when the foal is born and those antibodies will be available for the foal to consume.

CareCredit is a personal line of credit for healthcare treatments and procedures for your entire family, including your pets. It works like a credit card but it has two advantages. It can only be used for healthcare services and you can get No Interest financing every time you use it. Simply pay your minimum monthly payment and pay off the entire balance by the end of your promotional period and you pay No Interest. If you need more time to pay for your procedure, you can take advantage of our extended payment plans with low, fixed interest rates.



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Cushings, Laminitis and Surgery with Breezy

Breezy is a 19 year old pony mare diagnosed with Equine Cushing's Disease. Cushing's is a disease where the pituitary gland doesn't function properly. The pituitary is an endocrine gland that regulates the other internal endocrine glands including the pancreas, adrenal gland, thyroid gland, and parathyroid gland. The improper function of the pituitary leaves the internal metabolism and hormone secretion unregulated. The most common symptom of Cushing's disease is hirsutism, or an abnormally long hair coat that doesn't follow normal shedding cycles. Breezy was prescribed dietary changes and started on pergolide medication to help regulate her internal endocrine balance, and her symptoms began to improve.

The complication to Cushing's that veterinarians worry about most, however, is laminitis, otherwise known as "founder". In 2004, Breezy began to suffer episodes of laminitis. Most of these painful episodes responded to anti-inflammatory drugs and corrective shoeing, but in November of 2008, Breezy became markedly more painful in her front feet. Radiographs showed rotation of the coffin bone inside the hoof capsule.

"Rotation" refers to the change in position of the coffin bone relative to the hoof capsule. In a normal hoof structure, the front of the coffin bone is parallel to the front of the hoof wall.



Coffin bone rotation before (above) and after (right) surgery.

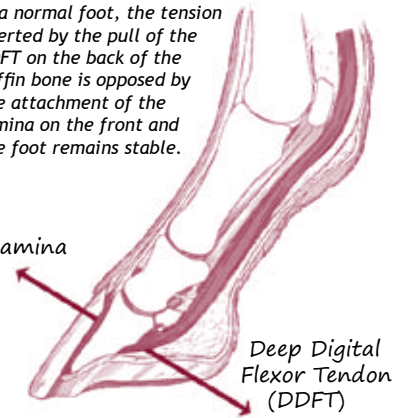
The fibers that connect the coffin bone to the hoof wall are known as lamina. When the lamina become inflamed and swell (laminitis), they lose some of their attachments to the coffin bone, and the bone rotates away from the front of the hoof wall.



Another anatomical structure that affects the coffin bone is the deep digital flexor tendon (DDFT). This tendon attaches to the back of the coffin bone and extends around the back of the fetlock to the back of the knee. In a normal foot, the tension exerted by the pull of the DDFT on the back of the coffin bone is opposed by the attachment of the lamina on the front and the foot remains stable. In the case of laminitis, however, when the lamina begin to give way, the pull of the DDFT adds to the complication.

In a normal foot, the tension exerted by the pull of the DDFT on the back of the coffin bone is opposed by the attachment of the lamina on the front and the foot remains stable.

Lamina



Deep Digital Flexor Tendon (DDFT)

Breezy was not responding as well to the anti-inflammatories as she had in the past. The decision was made to perform a deep digital tenotomy. This is a surgery where the DDFT is cut in order to remove the tendon's pull on the coffin bone, thus allowing less pressure on the lamina and the ability to "de-rotate" the coffin bone.

Breezy did well in surgery and her feet have slowly become less painful. Use of pergolide and consistent shoeing has produced a foot that shows little sign of the rotation she suffered. As of February 2010, Breezy continues to do well. She is comfortable and enjoys her time in the pasture with the other horses.

ALL WEBSITES REFERENCED IN THIS NEWSLETTER ARE ALSO AVAILABLE AT WWW.JANSSENVETCLINIC.COM

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Wellness Exams

We are continually searching for avenues to improve the quality and quantity of life for our patients. One of the most effective ways to ensure the health and longevity of our patients is through the early detection of disease. Early disease detection can best be accomplished by the timely use of blood panels and urinalysis. Traditionally, most clients look at laboratory tests as diagnostic tools to be employed only when their pet is ill. The use of tests in this manner is obviously appropriate, but we are challenging our clients to view these tests differently.

**Early Detection + Early Treatment =
Better Quality of Life.**

Several studies over the past decade have shown the importance of early disease detection. Studies have repeatedly found 1 out of 5 otherwise healthy patients have abnormalities on their lab work. The earlier these abnormalities are identified; the earlier they can be investigated or treated. Early detection equals early treatment, which will translate to better quality of life.

We all have seen comparisons of human years and the equivalent aging that takes place for our pets. This "accelerated" aging can easily sneak up on us, as our puppy or kitten turns into a senior pet seemingly overnight. As a result, yearly laboratory tests are recommended for our patients regardless of age. Pets that are 7 years of age or older are at greater risk, so the recommendation for lab work receives even greater emphasis.

JVC is teaming with Antech Diagnostics to provide Early Detection Programs tailored to your pet's needs. For your pet's sake, please don't wait until a health problem arises to consider lab work; make laboratory testing an integral part of your pet's annual exam.

Hi kids! Find the words below in the puzzle. The words all have something to do with Janssen Veterinary Clinic!

F Z X I S C B S C L Q D R W T
M G E I W I A H S J A O H R G
D H V Q R N B E J H T T A I O
H O R S E I N R T C E C N W G
C N O K Q L W I O M T E A E B
V E T F K C W D R O A T P E D
U L H X J Y L A R O E B A C I
B I H Q P G S N N R A B O V D
W W T X O J G X M X E T C Q H
S T A D F A I R P T S F M E R
E G C W K N E S S N A J O B S
N M S F V J Y F C L O C U K N
D Y I N D D J F I H Y K S E U
T K V Z D R B E R P V R E J R
O T O A E N Q T C M R E Q Q F

BARN CAT CLINIC DENTAL
DOCTOR DOG FOOD HORSE
JANSSEN MOUSE SHEEP
SHERIDAN TRACTOR VET
WATER

Correct Deworming Practices = \$\$\$avings\$ + Better Health

Parasite Resistance is a growing concern amongst equine veterinarians. Because no new deworming drug releases are looming on the horizon, we must protect the drugs that we have by using them carefully.

The consequences of resistance and rising parasite loads include: 1) lower feed efficiency, 2) poor performance and/or appearance, and 3) an increase in certain types of colic episodes. All of these risk factors jeopardize horse health and heighten the cost of ownership. For example, internal parasites can cause the hair coat to appear poor, ill thrift, pneumonia (secondary to the presence of migrating larvae), colic, perforation of the intestinal tract, diarrhea/colitis, or, in very rare cases, fatal aneurysm (an abnormal blood-filled dilation of a blood vessel—especially an artery).

The improper use of deworming drugs causes parasites to become resistant to that drug. “Improper use” usually consists of one of two things: dosing too little, or dosing too often. If you were to under-dose and give your horse less medication than his body weight requires (either by underestimating his weight, or if he spits out half of what’s

given) some of the parasites will be killed, but the ones that remain will be the “strongest” parasites. After several generations of reproducing only the strongest, (viola!) we have parasites that are resistant to that class of drug. Dosing too often provides excessive exposure to the drug—each additional exposure is one more opportunity for the parasite to genetically mutate and become more resistant to our products.

Rotating dewormers has been traditionally accepted as the best way to manage your horse’s parasite load. However, because each horse is an individual, a different approach may be more effective in your situation. There are a number of factors that influence a horse’s parasitic load. It has been found that some horses have stronger genetic protection from parasite infestation than others. This “natural resistance” relates to factors associated with the immune system. Environment plays a role too. Horses that have access to pasture and intermingle with transient horses have a higher exposure risk. On the other hand, horses that spend more time in stalls or live on dry lots may have less parasite exposure.

It is now possible to utilize a process called a “Fecal Egg Count” or FEC to identify the horses in your herd that are the “high shedders” or have the highest parasite load. This enables you to concentrate your deworming efforts on those horses, and be able to actually deworm the “low shedders” less frequently. About 20% of the horses harbor 80% of the worms. Using the FEC process not only helps reduce the risk of resistance, but can save you the cost of unneeded dewormers for horses that have less of a parasite problem.

FEC simply determines the type and number of parasite eggs in 1 gram of manure. The initial FEC testing is best done at least 4 weeks after the egg reappearance period (ERP). The ERP is the time it takes (in weeks) for eggs to recur in the fecal exam after deworming. Ideally, the initial FEC results would be followed with a dewormer, then about 14 days later a second FEC would be performed. This methodology will indicate how susceptible the horse is to parasites, will help quantify shedding status, and will gauge the effectiveness of the last deworming compound.

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Class	Drug Name	Target Parasites	Brand Names	ERP (Weeks)
Macrocyclic Lactones	Ivermectin	all parasites except tapeworms and is effective against some migrating strongyle larvae	Zimectrin	8
	Moxidectin	all parasites except tapeworms and is effective against encysted small strongyles	Quest*	12
Benzimidazoles	Fenbendazole	large and small strongyles, pinworms, and roundworms	Panacur	4
Oxibendazole	Anthelcide	large and small strongyles, pinworms, roundworms, and threadworms	Anthelcide EQ	4
Pyrimidines	Pyrantel	large and small strongyles, pinworms, roundworms, and when used at a double dose it will also kill tapeworms	Strongid	4
Praziquantel	Ivermectin + Praziquantel	additionally targets tapeworms	Equimax	8
	Moxidectin* + Praziquantel	additionally targets tapeworms	Quest Plus*	12

* Please note that the use of the macrocyclic lactone “moxidectin” (Quest) has certain label restrictions. DO NOT USE in foals less than 6 months old, geriatric/debilitated horses, or horses of unknown deworming history.

Sample deworming protocol:

- 1) What was your last deworming product and when was it used? (example: Ivermectin, March 1st.)
- 2) Determine the ERP of that product, add 4 weeks to determine date to perform the 1st Fecal Egg Count (Ivermectin ERP=8 weeks, add 4 weeks for a total of 12 weeks, making May 24th the date for 1st FEC)
- 3) Collect manure sample and deliver to veterinarian for analysis. (May 24th)
- 4) Deworm horse with next class of dewormer in rotation (example: pyrimidine, May 24th)

At this point in the process, you will be able to identify the “high shedder(s)” in your herd. Ideally, continue on to determine whether or not there is parasite resistance present.

- 5) 14 days after deworming, collect another manure sample and deliver to your veterinarian for a 2nd FEC (example: June 7th)

A high FEC after the second deworming indicates resistance or ineffective deworming. Consult your veterinarian on how to proceed.

The use of the daily dewormer pyrantel (Strongid C or Strongid C 2X) could be an option as well. It is recommended that the use of these products be supplemented with macrocyclic lactones + praziquantel (Quest Plus). Larvicidal fenbendazole (Panacur Powerpak) may be utilized if encysted small strongyles are a potential issue and need to be effectively controlled.

As always, management practices can also help in controlling the parasite population. In addition to administering an anthelmintic experts recommend certain management practices to assist in controlling parasite populations. These include:

- picking up feces (that can contain parasite eggs) from paddocks on a regular basis
- rotating pastures (potentially necessitating the installation of temporary fencing)
- properly composting manure
- feeding horses away from potentially contaminated areas or using feeders to avoid feeding on the ground
- and dragging pastures during hot/dry conditions to reduce the spread of parasites.

Please visit janssenvetclinic.com for summary guide to parasite control.

The Amazing Miss Molly

Last June, a truly remarkable dog crossed the threshold of the Janssen small animal clinic. Molly, a spunky 6-year-old Black Labrador Retriever, was moving from the Deep South to Colorado, and was scheduled to spend just a few days in Indiana with a volunteer of Labrador Rescue. Mike Gartin was her “foster parent” and had undertaken responsibility for Molly’s needs while she was in the Hoosier State. Because she had been previously diagnosed with heartworm disease, Mike was concerned about the negative effects the drastic change in altitude might have on Molly if she continued on to Colorado. Of course, Molly had also stolen Mike’s heart, so it seemed like an obvious resolution to have Molly stay in Indiana.

Seems like a nice place to end the story, right? Unfortunately, Molly had multiple issues and heartworm disease was literally just the tip of the iceberg. Her abdomen was tremendously distended, causing her obvious discomfort and giving her a significant swayed-back appearance. In fact, the primary reason for her appointment last June was this distention and the disabling effect that it was having on Molly’s life. The ensuing diagnostic work-up revealed yet another normally debilitating process at work: arthritis. The degree of arthritic change was completely invasive. The majority of joints in her body

were involved, and even Molly’s ribs showed evidence of arthritis.

Unfortunately, we haven’t yet discussed the cause of this tremendous abdominal distension. Radiographic exam revealed a large mass in Molly’s abdominal cavity. Actually, “large” may not be a fair way to describe this mass. A more fitting word may be “humongous.” The mass was taking up 70-75% of the space in Molly’s abdominal cavity. It was assumed, and abdominal ultrasound would later confirm, that the mass was associated with the spleen. Ultrasound also revealed some very positive news. The liver did not appear to be involved with the mass.



Now I know that you have all been waiting to find out what’s so remarkable about Molly. Well, just as with her health problems, that question has more than one answer. First

of all, even with the underlying health problems, Molly was displaying a zest for life. Mike was amazed at how athletic Molly was, and that she never seemed to tire. He marveled at her ability to retrieve balls off his backyard deck with a kamikaze-like approach. Molly’s drive to overcome her health-related issues was never more evident than in late July. Mike had made the decision to proceed with exploratory surgery of Molly’s abdomen. The mass was now causing a decrease in her appetite and more frequent vomiting; there literally was no room for food in her abdomen. Mike commented that even with the risks, he had to give Molly a chance.

That leads us to the other remarkable thing about Molly. Thankfully, her surgery, while tedious and long, was successful. The mass was indeed the spleen and it was removed. The spleen [pics] weighed 14.5 pounds—a full 16% of her body weight at the time of surgery. The surgery barely managed to slow Molly down. Within 24 hours she was ready to go. Remarkably, the spleen was not cancerous.

This story obviously has several messages in it. There are some truly great dogs and cats that are in need of second chances. And there are truly great people willing to give them second chances. In Molly’s case, they came together to create a story with an amazing ending.

Welcome **ROYAL CANIN** KNOWLEDGE AND RESPECT™

Today more than ever before, pet owners are more educated and aware of how important a good quality diet is to the health and longevity of our pets. There are many over the counter diets that are specifically designed for our pets; these diets are often based on their particular needs, such as age, size, and in some instances even breed. However, even with many over the counter choices, there are still occasions when our pets need a prescription diet for their specific medical needs.

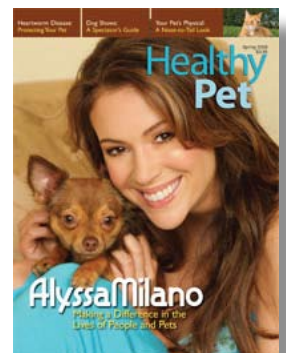


After careful research and consideration, we are excited to offer the exceptional quality line of Royal Canin pet food. The quality of ingredients, amount of research, and technology that creates the Royal Canin diets makes them second to none. And since what’s good for you doesn’t always taste the best, it’s important that Royal Canin foods have been shown to be superior in taste by most patients.

As always, when changing to a new pet food, gradual transition is important. For those few animals that cannot tolerate a diet change or whose individual circumstances require them to stay on their current diet, Hill’s pet foods can still be purchased on-line and delivered to your door through our Vetsource On-line Pharmacy, or when necessary, can be special ordered through the clinic. Our staff is always happy to assist and answer any questions you might have.

Reminders Update

Watch for your new Healthy Pet Magazine to arrive at your door! You will receive your copy with a reminder when your dog or cat is due for their Annual Exam, Vaccinations, Heartworm Test, Fecal Exam, etc. Healthy Pet Magazine includes fun stories on pet-loving celebrities and the latest on seasonal topics and issues that are affecting your pet’s health! This magazine is our gift to you! We hope you enjoy it.



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Recognizing the strong human-animal bond, Janssen Veterinary Clinic strives to provide optimal patient care and quality of life through preventative medicine, education, respect and our commitment to excellence.

Mission Statement

Janssen Veterinary Clinic
2420 W. 236th St
Sheridan, IN 46069



CLIENT EDUCATION EVENT

YOU ARE INVITED TO JOIN **JANSSEN VETERINARY CLINIC**
IN COLLABORATION WITH **WALLACE GRAIN, PURINA MILLS**
AND **NORTHSIDE TRAILER**

Saturday March 27, 2010
9:30 a.m. to 12:00 p.m.
Located at JVC
2420 W 236th St • Sheridan, IN

Topics include: Understanding Proper Equine Nutrition, The Importance of Equine Dentistry & Preparing Your Horse Trailer for Safe Hauling

Please join fellow equine enthusiasts for this learning opportunity and enjoy a catered luncheon.



Please RSVP Janssen Veterinary Clinic (317) 758-4865 by Monday March 22nd, 2010

