



1321 Centerview Circle
Copley, OH 44321-1627
PHONE 330-576-6275
FAX 330-319-7445

Contents of the Veterinary Referral Package

- Introductory Letter from the Medical Director
- MRI Referral Form
- Information on Required Testing for Patients Having an MRI/CT
- A Brochure and Information on **Magnetic Resonance Imaging** to distribute to Clients
- Our Payment Policy
- Information for Us about You
- The Referral Process



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Pet owners place their trust in us to provide the best care for their pets. As clients demand higher levels of care for their pets, safer and more advanced technologies are being developed for use in the veterinary field. Magnetic resonance imaging (MRI) will soon become the standard of care for many conditions in veterinary medicine.

Who are we? PetsDx is a group of energetic individuals committed to providing you, your clients, and their pets with state-of-the-art veterinary diagnostic imaging services. Our Akron facility is fully staffed with an experienced veterinarian, MRI technologist and veterinary technicians. Board certified veterinary radiologists with advanced training in MRI will review each study and provide detailed findings.

Why use PetsDx? At PetsDx we focus solely on imaging veterinary patients with MRI. This specialized service allows us to provide the answers you need while you spend your time on your business.

PetsDx employees have extensive experience in veterinary medicine, magnetic resonance imaging and computed tomography. At PetsDx, we have over 50 years of experience in MRI. You can rest assured that you are getting only the best when you refer to PetsDx.

What to expect when using PetsDx. We see cases on a referral basis only. In most cases, a patient can be scheduled for a MRI within a day or two. Because we focus solely on MRI, you retain the business generated by performing a detailed case work-up before your client and patient meet with us. On the day of the imaging study, clients may wait for their pet or drop their pet off and return in 3-4 hrs to pick them up. Clients will meet with the veterinarian to discuss the procedure and anesthetic risks when they bring their pet for the study. Every patient receives a complete physical exam and review of lab work in order to develop an appropriate anesthetic protocol. Anesthetic time for an imaging study usually ranges from 15-90 minutes. Once recovered from anesthesia, your patient will be discharged to their owner to return home or back to your facility.

We understand your time is very valuable, so we will communicate test results to you typically within 24 to 48 hours of the study so that you can inform your clients as rapidly as possible. In most cases, we can have a report faxed to your office within four hours of completing the study. For a small additional fee, a stat read can be performed and the results can be communicated to you within an hour. PetsDx does not provide results to clients. Case management is left to the referring veterinarian's discretion. We will be glad to provide **you** with any assistance in regards to additional diagnostic and/or treatment recommendations, if you wish.

We at PetsDx are very excited about the opportunity to work together with you. We believe we can offer you and your clients' access to advanced veterinary imaging and a consultation service at a reasonable cost. We would be happy to meet with you and give you a tour of the facility. As always, we are available to answer any questions you may have.

Gerald Frye, VMD
Medical Director / Pittsburgh, PA

Ohio Office
1321 Centerview Circle
Copley, OH 44321
PHONE 330.576.6275
FAX 330.319.7445



Pittsburgh Office
807 Camp Horne Road
Pittsburgh, PA 15237
PHONE 412.348.2577
FAX 412.774.1999

MRI Referral Form

Please complete the following and fax together with all necessary paperwork to your local imaging center.

General Information

- It is very important to note that your patient will be anesthetized for the MRI. Please advise your clients as to the risks of anesthesia as well as any special instructions regarding medications to be given before the MRI
- We are not equipped to handle laboratory testing or imaging other than MRI. Therefore, all required testing must be completed by you and results furnished prior to our anesthetizing your patient. A list of required tests has been provided. Do not hesitate to contact us should you have any specific questions
- We strongly recommend that a radiograph of the area to be imaged is obtained before anesthetizing your patient as metallic objects such as bullets or BBs near the area of interest can prevent us from getting a diagnostic exam
- As we are an outpatient facility only, patients must be stabilized before we can proceed with an MRI

Referring Veterinarian Information

Clinic Name _____
Veterinarian #1 _____ Veterinarian #2 _____
Address _____ City _____ State _____ Zip _____
Clinic Number _____ Fax Number _____

Client and Patient Information

Client's Name _____ Home # _____
Address _____ Cell # _____
City, State, Zip _____ Work # _____
Patient's Name _____
Species _____ Sex _____ Breed _____ Color _____ Weight _____ Age _____

Case History and Medical Information

Please indicate patient history including past and current medical problem(s), results of all diagnostic testing, any medication(s) prescribed, and response to medication(s), if any. Please include any sensitivity to anesthesia or any known allergies. Attach patient history.

1. AREA TO BE IMAGED (please check/circle)

SPINE	BRAIN	HEAD/NECK	LIMB/JOINTS	SOFT TISSUE
<input type="checkbox"/> C1-T2	<input type="checkbox"/> Brain	<input type="checkbox"/> Nasal Cavity	<input type="checkbox"/> Brachial Plexus (L / R)	<input type="checkbox"/> Abdomen
<input type="checkbox"/> T3-L3		<input type="checkbox"/> Osseous Bullae	<input type="checkbox"/> Lumbosacral Plexus	<input type="checkbox"/> Chest Wall
<input type="checkbox"/> L4-Sacrum		<input type="checkbox"/> Orbits	<input type="checkbox"/> Stifle (L / R)	<input type="checkbox"/> Lungs
<input type="checkbox"/> T3-Sacrum		<input type="checkbox"/> Sinus	<input type="checkbox"/> Elbow (L / R)	(Mets eval)
<input type="checkbox"/> C1-Sacrum (double study)		<input type="checkbox"/> Soft Tissue Neck	<input type="checkbox"/> Hip (L / R)	
			<input type="checkbox"/> Pelvis (L / R)	
			<input type="checkbox"/> Shoulder (L / R)	

2. SPECIFIC SEQUENCES REQUESTED (please check):

Standard MRI Other (specify) _____

Signature of Veterinarian Requesting Test _____

Testing Requirements in Preparation for General Anesthesia

Please note that general anesthesia is required for all veterinary patients having an MRI. It is the policy of PetsDx Veterinary Imaging that all patients must have the appropriate testing completed prior to being anesthetized for the scan. The following are minimum requirements based on the age and physical status of your patient.

Testing Requirements - Patients Less than Five Years of Age

<u>CATEGORY</u>	<u>REQUIRED TESTS</u>
I or II ^a	PCV, TP, BUN
III ^b	CBC, General Health Profile, Serum Electrolytes, T4, ECG ^c
IV or V ^d	CBC, General Health Profile, Serum Electrolytes, ECG, Chest Radiographs

Testing Requirements - Patients Over Five Years of Age

<u>CATEGORY</u>	<u>REQUIRED TESTS</u>
I or II ^a	PCV, Pre – Anesthetic Profile
III ^b	CBC, General Health Profile, Serum Electrolytes, T4, ECG
IV or V ^d	CBC, General Health Profile, Serum Electrolytes, T4, ECG, Chest Radiographs

^a Testing should be completed within 30 days of the referral

^b Testing should be completed within 7 days of the referral

^c If cardiac disease is present

^d Testing should be completed within 48 hours of the referral

Classification of Physical Status for Patients Undergoing Anesthesia*

<u>CATEGORY</u>	<u>DESCRIPTION</u>	<u>EXAMPLES</u>
I	No organic disease	
II	Mild or moderate systemic disease without functional impairment	<ul style="list-style-type: none"> ▶ Cardiac disease, compensated (no medication) ▶ Obesity ▶ Orthopedic disease ▶ Geriatric ▶ Pediatric
III	Organic disease with definite functional impairment	<ul style="list-style-type: none"> ▶ Anemia, mild ▶ Anorexia ▶ Cardiac disease, compensated (with medication) ▶ Dehydration, mild ▶ Fever, mild ▶ Neurologic symptoms (Seizures, Vestibular syndrome, Ataxia, Paresis)
IV	Severe disease that is life - threatening	<ul style="list-style-type: none"> ▶ Anemia, severe ▶ Cardiac disease, noncompensated ▶ Pulmonary disease ▶ Sepsis ▶ Shock ▶ Renal disease
V	Moribund patient, not expected to survive	<ul style="list-style-type: none"> ▶ Major trauma ▶ Profound shock ▶ Multi – organ failure ▶ Severe head injury

*Adapted from the American Society of Anesthesiologists

Your patient's well – being is very important to us, and we will not anesthetize them without the appropriate testing on file.



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PET OWNER INFORMATION AND INSTRUCTIONS

What is MRI? MRI stands for magnetic resonance imaging. It is an advanced imaging technology that has been safely used in human medicine for the last two decades. MRI is non – invasive and it is not painful.

How does an MRI work? MRI's use magnetic fields and pulses of radio waves to temporarily and harmlessly energize molecules in your pet's body. As they relax, these energized molecules give off a signal that's made into an image by a computer.

Why has an MRI been recommended for my pet? MRI are very powerful imaging modalities. It has been recommended because it provides exceptional bone and soft tissue detail. We can image areas such as the sinus cavities, brain, spinal cord, intervertebral disks, abdominal organs, lungs, muscle, bones, nerves, tendons, ligaments and joints with much more detail than the average x-ray. The results of the MRI will help your veterinarian make a definitive diagnosis and offer you the best options for treating your pet. .

How do I schedule a MRI? Your veterinarian must contact us to arrange a referral. Once a referral has been arranged, you may then schedule an appointment directly with us. Appointments are scheduled in the morning Monday through Friday. If your pet is to have a MRI, we will have you leave them with us for the day. However, they must be picked up by 4:30 p.m. as we are not available to care for them overnight. If needed, you may wait during the MRI. Please notify the receptionist when scheduling the appointment if you are planning on waiting.

How should I prepare my pet for the MRI? Pets having a MRI must be anesthetized so that they remain still for the exam. In preparation for general anesthesia, they should not eat after 10 p.m. the night before the exam. It is alright for them to have water available until two hours prior to their scheduled appointment time. Ask your veterinarian or call us for instructions if your pet is on any medications.

What should I bring to the appointment? We will ask your family veterinarian to fax us a copy of the medical record so that you do not need to be responsible for that. However, if your family veterinarian has any x – rays that they are unable to mail to us in time for the appointment, we ask that you please bring these with you.

What should I expect during the MRI? Your pet will be anesthetized for about 45-90 minutes to get all the sequences necessary for a MRI. Before any anesthesia is given, we'll make sure that your pet is examined thoroughly. The type of anesthesia we use depends on your pet's problem. We'll place an intravenous catheter and your pet will get fluids throughout the procedure. All vital signs will be carefully monitored during the anesthesia.

What happens to my pet after the MRI? After the MRI, your pet may be disoriented and off balance for about half an hour. We will watch your pet closely until it has recovered. Once your pet is awake and oriented, they will be discharged. Your pet may urinate a large amount after it gets home because of the fluids given during the anesthesia. Once home, it is important to keep your pet away from stairs and furniture until it has fully recovered so that it does not hurt itself. Your pet should be back to normal the morning following the scan.

How do we proceed after the MRI? After the MRI, the images will be read by a highly qualified, board – certified veterinary radiologist. Results will be returned to your family veterinarian's office within 48 hours after the appointment.

Please do not hesitate to contact us should you have any questions or concerns regarding the procedure.

Please visit us at our website:

www.petsdx.com



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Payment Policy

Please review our payment policy with your clients before referral. We do not want your client to have any surprises about the cost of tests.

- The cost to have one region scanned with the MRI is \$1300-1700.00. This also includes patient care and monitoring, IV catheter placement and fluid administration, pre-medications, anesthetic induction and maintenance as well as the radiologist's reading fee. If a second region is requested on the MRI, the charge is 50% of the first. If you are unsure whether or not a second region will be needed, please do not hesitate to contact us.
- Payment for the MRI will be made by the client upon arrival at our facility. We accept cash, personal check, American Express, Discover, Visa, and MasterCard. We also offer CareCredit and accept pet insurance. At this time, we are unable to bill clients.
- Please do not hesitate to call us if you have any questions.



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Help us learn more about you! PetsDx Veterinary Imaging is a fixed diagnostic imaging center dedicated to providing advanced imaging exclusively for veterinary patients. At PetsDx, we understand that you have a special relationship with your clients. We also understand that a relationship built on honesty, trust, and understanding is critical to our mutual success. When referring patients to us, you can take comfort in knowing that we will work together as a team to advance patient care without interfering with that special relationship you have with your clients.

Please take a minute to provide us with information about you and your clinic

Practice Name _____

Address _____ Phone Number _____
_____ Fax Number _____

Practice Owner(s) _____

Veterinarians _____

Office Manager _____

Hours of Operation Monday _____ Friday _____
 Tuesday _____ Saturday _____
 Wednesday _____ Sunday _____
 Thursday _____

Emergency Hours _____

Special Interests _____

Comments or Questions _____

Please check one of the following:

I am interested in a tour of the facility

I am interested in a member of the PetsDx team providing education at my clinic

Completed forms may be mailed or faxed to us at 412.774.1999. Thank you for taking the time to provide us with this information. We look forward to working together with you!



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How does the referral process work?

A referral can be made by speaking directly with the veterinarian at the Copley site on Centerview Circle or faxing the referral form and pertinent medical record. Once the referral has been arranged, your clients can schedule an appointment with us directly.

All pertinent information, including medical records and results of recent blood work should be faxed to our office in advance of your client's appointment. X-rays can be brought in by the client on the appointment day. If you have digital radiography, you may e-mail us the X-rays or send a cd along with the client.

The day of the MRI, our office will usually call to inform you the study has been completed. Billing can be done either directly at our facility (American Express, Care Credit, VISA, MasterCard, Discover, Check) or through your office. Please contact us for details.

If you have any questions after receiving the report from the radiologist, please feel free to contact our office.



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Directions to PetsDx Veterinary Imaging

Directions from Cleveland (east side):

Take I-271 south to I-77

Take I-77 south to Route 21 south

Follow Route 21 south to the Copley Road (Route 162) exit

Turn left (east) and go two tenths of a mile to Centerview Circle

Turn left on Centerview Circle. Corner of Centerview Circle and Copley Road.

Directions from Cleveland (west side):

Option 1: (via I-71)

Take I-71 south to Route 18

Go east on Route 18 to I-77

Take I-77 south to Route 21 south

Follow Route 21 south to the Copley Road (Route 162) exit

Turn left (east) and go two tenths of a mile to Centerview Circle

Turn left on Centerview Circle. Corner of Centerview Circle and Copley Road.

Option 2: (via I-77)

Take I-77 south to Route 21 south

Follow Route 21 south to the Copley Road (Route 162) exit

Turn left (east) and go two tenths of a mile to Centerview Circle

Turn left on Centerview Circle. Corner of Centerview Circle and Copley Road.

Directions from Youngstown:

Follow I-76 west to Akron

Continue on I-76 west to I-77 north

Follow I-77 north to Route 21 south

You will see an exit for Copley Road while on I-77 north, please do not take this exit but continue north bound on I-77 to Route 21 south

The exit for Route 21 exits I-77 north on the left hand side

Follow Route 21 south to the first exit, Copley Road

Turn left (east) on Copley Road

Go two tenths of a mile to Centerview Circle

Turn left on Centerview Circle. Corner of Centerview Circle and Copley Road.

Directions from Canton:

Take I-77 north to Route 224

Go west on Route 224 to Route 21 north (Exit 13 B)

Go north to Route 21 to the Copley Road (Route 162) exit

Turn right (east) and go two tenths of a mile to Centerview Circle

Turn left on Centerview Circle. Corner of Centerview Circle and Copley Road.

Directions from Mansfield:

Follow I-71 north to I-76 east to Route 21 north (exit 13 B)

Go north on Route 21 to the Copley Road (Route 162) exit

Turn right (east) and go two tenths of a mile to Centerview Circle

Turn left on Centerview Circle. Corner of Centerview Circle and Copley Road.

Increased MRI Sensitivity

1. Head/Brain
 - a. Chronic nasal discharge/epistaxis
 - b. Congenital malformations
 - c. Foramen magnum lesions
 - d. Foreign body
 - e. Hematoma (subacute vs. acute vs. chronic)

 - f. Hydrocephalus
 - g. Infection

 - h. Meningeal disease
 - i. Metastatic disease
 - j. Neoplasia
 - k. Optic chiasm disease
 - l. Orbital disease
 - m. Pituitary micro/macroadenomas
 - n. Posterior fossa pathology
 - o. Post traumatic change
 - p. Seizures
 - q. Spinocerebellar degeneration
 - r. Stroke (subacute vs. acute vs. chronic)
 - s. Syringomyelia (Chiari malformation)

2. Cervical spine
 - a. Bone marrow disease
 - b. Cervical vertebral instability
 - c. Disc disease
 - d. Discospondylitis
 - e. Neoplasia
 - f. Osteomyelitis
 - g. Salivary gland abnormalities
 - h. Spinal metastases
 - i. Syrinx

3. Thoracolumbar spine
 - a. Bone marrow disease
 - b. Discospondylitis
 - c. Early disc disease
 - d. Osteomyelitis
 - e. Post surgical scar
 - f. Spinal metastases

4. Body
 - a. Adrenal tumors
 - b. Heart-based tumors
 - c. Extent of hepatic tumors
-primary vs. metastatic
 - d. Extent of prostatic tumors
 - e. Extent of renal tumors
 - f. Extent of soft tissue tumors
 - g. Pancreatic tumors
 - h. Mediastinal masses
-esp. with pleural fluid

Increased CT Sensitivity

1. Acute head injury
2. Degen. bony abnormalities
3. Ectopic ureters
4. Fragmented coronoid
5. Lung nodules
6. Small calcified lesions
7. Skeletal trauma

References: www.angelfire.com/il/midwestern/mri.html
www.mrvets.com