



RADIOLOGY:

Advantages of MRI

MRI technology

An MRI uses a strong magnet, a radiofrequency transmitter and receiver, and a computer to acquire and create images. When the animal is placed in the magnetic field, a radiofrequency pulse is applied. Hydrogen atoms associated with water found in the tissues of the body move, creating a signal which is converted into an image. Unlike CT, images on an MRI can be acquired in three different planes without moving the patient.

Uses of MRI

An MRI is superior to a CT examination for evaluation of soft tissue structures, and can be used to evaluate the brain, spinal cord, nasal cavity, and other soft tissue structures such as soft tissue masses.

MRI vs. CT scan

In certain circumstances, MRI provides better resolution of soft tissue structures than CT, and can differentiate between masses, fluid and hemorrhage. Unlike CT, this is not ionizing radiation, therefore it does not increase the patient's exposure to harmful radiation. There are minimal side effects reported to occur with a low field strength magnet.

Vet-MR

At Michigan Veterinary Specialists, we use the Vet-MR, an MRI system specifically designed for use in dogs and cats. The coils are designed for our small patients, and provide good resolution.

Expert:

**Michelle Rose, BS, DVM, MS
Diplomate ACVR
Board Certified in Radiology**

Dr. Rose completed her veterinary degree at the University of Tennessee, her internship at Michigan Veterinary Specialists, and her residency at The Ohio State University. She is able to provide the advanced imaging studies using ultrasonography, CT, MRI, and fluoroscopy your patient may need.

Questions?

With an in-house MRI, we are able to routinely perform MRI scans on patients when this modality is indicated to provide further information towards a diagnosis. Dr. Rose, Chief Radiologist, provides imaging services at both of our locations on a full-time basis. She is available for consultations and image interpretations and is part of the team of MVS specialists providing support to our Emergency Service 24/7. Please call her at 248-354-6660 if you seek additional information.

LOCATIONS

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