



RADIOLOGY:

Ultrasonography

Uses of ultrasonography

This modality has many uses including imaging the abdomen, evaluating thoracic masses, neck masses, imaging musculoskeletal structures such as tendons, and evaluating ocular disease.

Abdominal ultrasounds

It is useful for evaluation for intra-abdominal masses, evaluation of the urogenital tract, and abnormalities associated with the liver, spleen and intestinal tract. Its limitations include a decreased ability to evaluate for small intestinal obstruction, foreign bodies and free air.

Thoracic ultrasounds

Images of thoracic masses can be obtained only if the mass is adjacent to the thoracic wall. If there is aerated lung between the mass and thoracic wall, the sound is reflected off of the aerated lung, preventing an image of the abnormality. Therefore, it is important to have recent thoracic radiographs prior to performing a thoracic ultrasound. Radiographs may be necessary to evaluate concurrently in these cases.

Neck, tendon and eye ultrasounds

Imaging of the neck can provide information regarding whether a mass may be arising from lymph nodes, the thyroid or other tissues.

Tendon sonography is most valuable for the bicipital tendon and calcanean tendon. Changes in the fiber pattern of the tendon may indicate a tear or inflammation. Sonography may be used serially to evaluate for healing.

Sonography of the eye is beneficial for evaluation for ocular disease such as hyphema, intra-ocular masses and retrobulbar disorders. It is also useful to evaluate for retinal detachment when cataracts obscure visualization of the posterior chamber.

Cardiac ultrasounds

In most cases, ultrasonic evaluation of the heart and major vessels is done by the cardiologist using our state-of-the-art GE Medical Systems color flow Doppler unit, the VIVID 7. Please have your client schedule an appointment with this service if you believe this test should be considered.

High-detail ultrasound

Whether it is through our radiology, internal medicine, and cardiology service, MVS offers two important items that help your patient and you get the best diagnostic information an ultrasound can provide. First, we use Aloka and GE units that are some of the best in the Midwest so our doctors get clearer, more detailed images to pick up subtle lesions not apparent on other units.

Our GE Logiq 9 is the top-of-the-line human ultrasound system with the latest software upgrade from GE Medical Systems. Compared to conventional ultrasound systems we can provide your patient with tissue and contrast harmonic ultrasound, compound imaging and speckle reduction capabilities. The system has the capability of imaging the first centimeter of the patient very clearly making imaging of the cat pancreas, eye, intestines and shoulder tendons very easy. Our ultrasound has the ability, with the use of specialized probes, to evaluate small tissues that are often difficult to image.

Next, our doctors have the specialized training and experience that helps them provide a thorough examination to find and critically evaluate lesions that may be unclear with routine ultrasonography.

Outpatient radiology services

These procedures can be performed at MVS by our board-certified radiologist, Dr. Michelle Rose. Please have your client call to make an appointment. If sonography of the neck, musculoskeletal system or eye is desired, please call to speak with Dr. Rose prior to the examination. Please send all pertinent radiographs with the owner to allow for the most complete evaluation of your patient. When you refer a patient for imaging through our radiology service, the results of the study and recommendations will be forwarded directly to you for discussion with your client. If you seek a consultation with an internal medicine doctor or other specialty, please have your client make the appointment with the appropriate service, not radiology.

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?

As Chief Radiologist, Dr. Rose provides imaging services at both our Southfield and Auburn Hills hospitals 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

3412 East Walton Boulevard
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Ph. (248) 371-3713

29080 Inkster Road
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Ph. (248) 354-6660

THE “ULTRASOUND REQUEST FORM” AS WELL AS PATIENT INFORMATION ABOUT THE PROCESS WILL BE AVAILABLE ON OUR WEBSITE IN THE “FOR VETERINARY PROFESSIONALS” SECTION. PLEASE VISIT WWW.MICHVET.COM TO REVIEW AND PRINT.