

INTERVENTIONAL RADIOLOGY: **Minimally Invasive Techniques Using Advanced Imaging**

Overview Interventional radiology was developed to diagnose, treat and cure diseases non-invasively or minimally invasively, and access structures which may not be accessed surgically. This advancement provides the same high level of care for pets as that afforded to humans. Benefits of interventional procedures include shorter recovery times, reduced pain, lower mortality rate, and ability to treat and cure diseases which previously had no options, such as intrathoracic tracheal collapse and intrahepatic portosystemic shunts.

How It Works Fluoroscopy units, like the one we have at MVS – a Phillips Moveable C-Arm – can capture images at 30 frames per second, which allows for visualization of fast moving structures, including all phases of the cardiac cycle and vessels with rapid blood flow (e.g. aorta, pulmonary artery, arteriovenous fistulas, shunting vessels). Both still images and video loops can be captured and stored digitally.

Uses

Cardiology

- Interventional cardiac procedures, including patent ductus arteriosus occlusion, pulmonic stenosis balloon valvuloplasty, temporary and permanent pacemaker placement, and diagnostic catheterization.

Internal Medicine

- Diagnosis and localization of tracheal and mainstem bronchial collapse. This procedure is non-invasive and allows for imaging of the trachea during a cough.
- Tracheal stenting for intrathoracic tracheal collapse.
- Urethral stenting for urethral tumors, prostatic tumors, stones, and strictures.
- Diagnosis of esophageal disorders, including dysmotility, strictures, masses, and foreign bodies.

Vascular

- Intra-hepatic portosystemic shunt or hepatic arterio-venous fistula occlusion.
- Peripheral arterio-venous fistula occlusion

Surgery

- Myelography to diagnose spinal diseases including disc disease, neoplasia and cysts.
- Orthopedic procedures, including bone biopsies, intervertebral disc aspirates, minimally invasive fracture repair, hip reduction, pin removal.

Questions?

Our Specialists leading the way in minimally invasive procedures:

For **Cardiology** patients, please contact Sarah Achen, DVM, DACVIM at (248) 354-6660.

For **Internal Medicine** patients, please contact Lauren Boyd, DVM, DACVIM at (248) 371-3713 and Ned Kuehn, DVM, DACVIM at (248) 354-6660.

For **Surgery** patients, please contact Dan Degner, DVM, DACVS at (248) 371-3713 and Kyle Kerstetter, DVM, DACVS at (248) 354-6660.

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