



Minimally Invasive Interventional Procedures

What are they?

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.

How does it work?

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 (aorta, pulmonary artery, arteriovenous fistulas, shunting vessels). Both still images and video loops can be captured and stored digitally.

Usage

Uses of fluoroscopy include:

- 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 and mainstem bronchial stenting for tracheal and mainstem bronchial collapse.
- Urethral stenting for urethral tumors, prostatic tumors, stones, strictures, and tears.
- Diagnosis of esophageal disorders, including dysmotility, strictures, masses, and foreign bodies. Survey radiographs are necessary prior to proceeding with this procedure. Because of the risk of barium aspiration into the lung, this procedure should not be performed in patients with a large fluid distended esophagus.
- Myelography to diagnose spinal diseases including disc disease, neoplasia and cysts.
- Orthopedic procedures, including bone biopsies, intervertebral disc aspirates, external fixator placement, closed hip reduction, pin removal.
- Intra-hepatic portosystemic shunt or hepatic arterio-venous fistula occlusion.
- Interventional cardiac procedures, including patent ductus arteriosus occlusion, pulmonic stenosis balloon valvuloplasty, temporary and permanent pacemaker placement, and diagnostic catheterization.
- Peripheral arterio-venous fistula occlusion.

Questions?

Our Radiology service is led by Michelle Rose, DVM, MS, DACVR and offers outpatient ultrasound and radiographic interpretation. Our diagnostic capabilities include MRI, CT scan, digital radiography, ultrasound and fluoroscopy. For more information, please contact her at (248) 354-6660 or MDRose@michvet.com.

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