

# *CHOOSING the RIGHT DIAGNOSTIC IMAGING CENTER*

*SHANDS JACKSONVILLE ADVANCED IMAGING*

*collaboration = expertise<sup>n</sup>*



**UF&ShandsJacksonville**  
The University Of Florida Health System

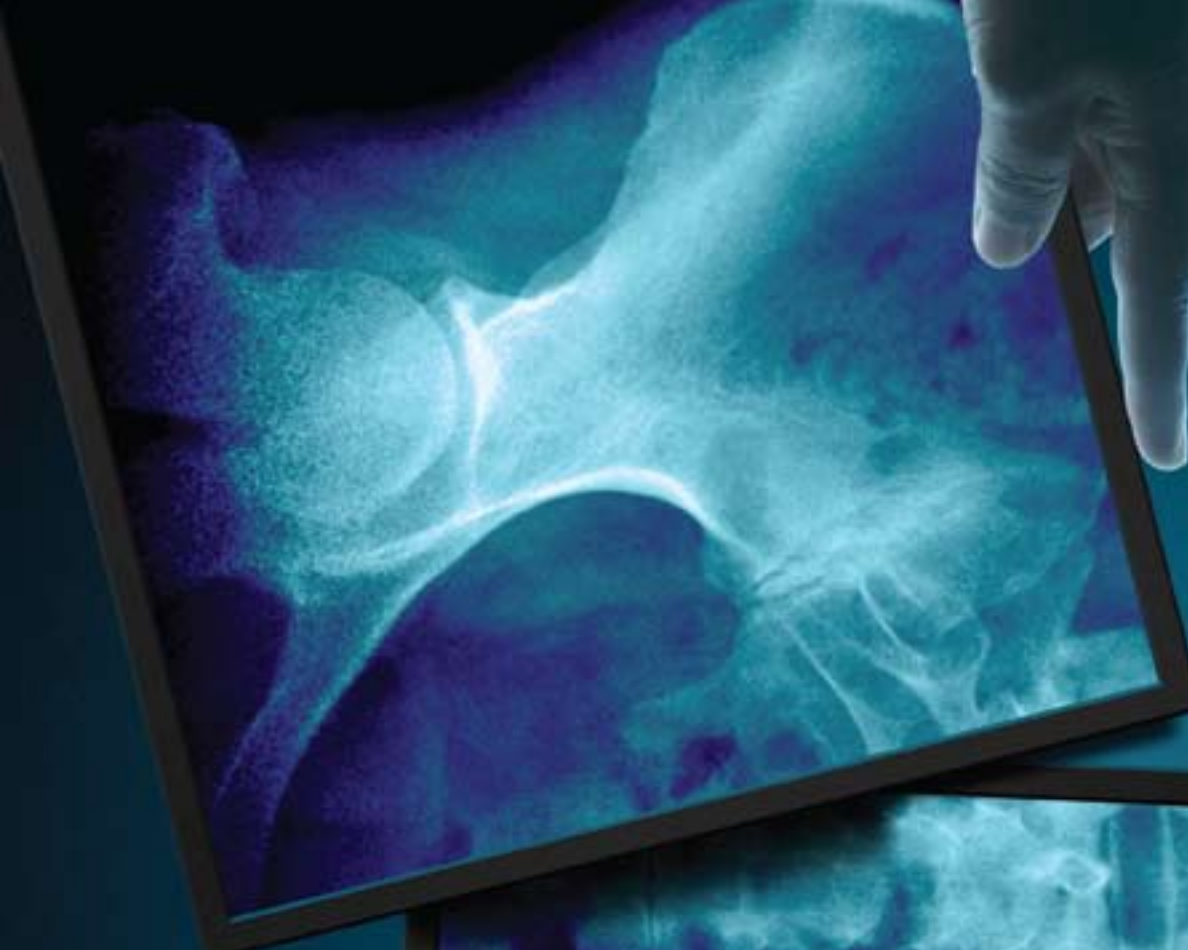


# HOW *radiology* SHOULD BE

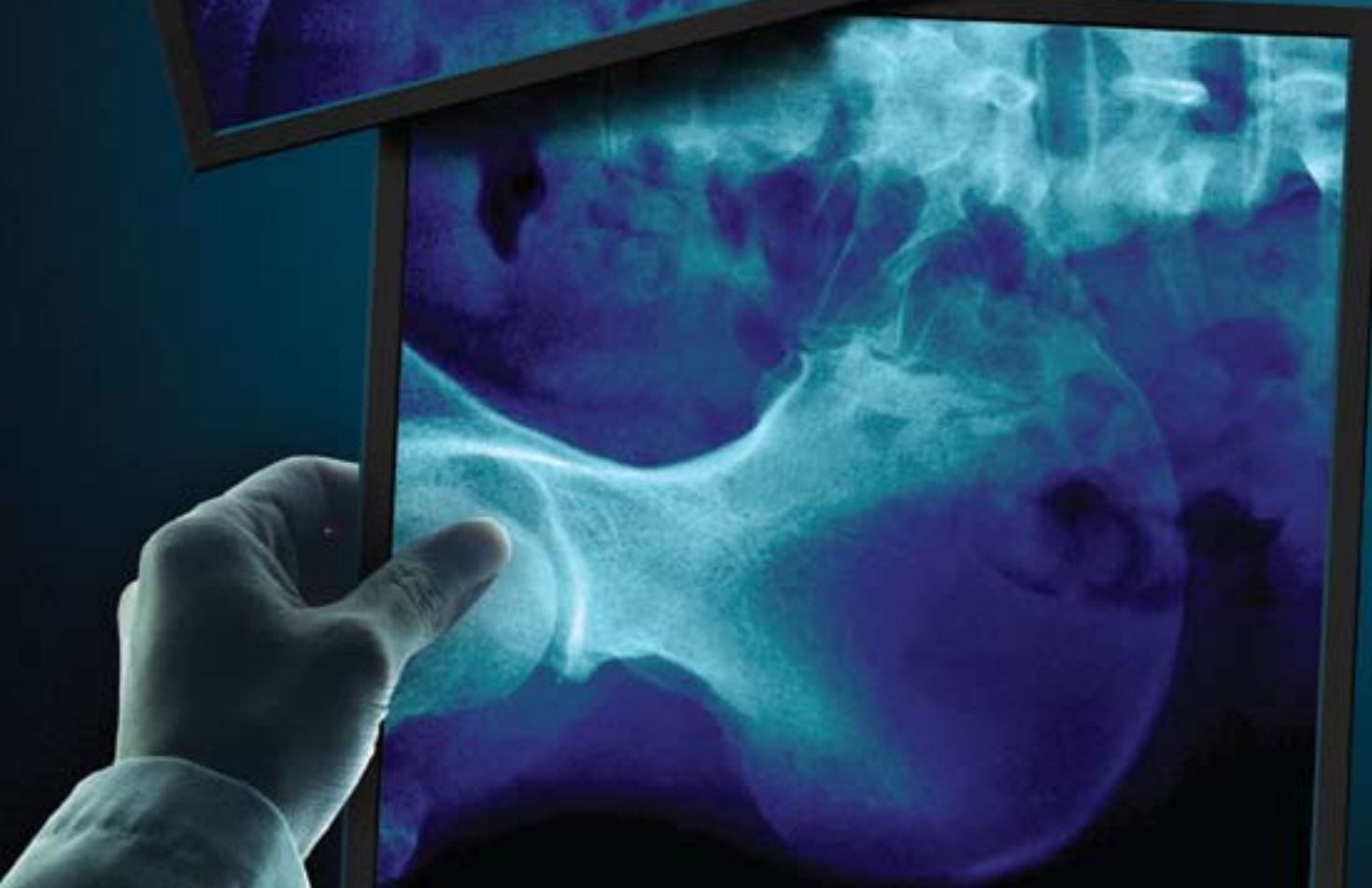
There is a new trend in the healthcare industry placing diagnostic imaging centers on every street corner. For sure, they provide convenience for routine, preventive scans. But when the stakes are high, you can depend upon the University of Florida physicians at Shands Jacksonville. Where we practice radiology the way it should be.

We have assembled a team of subspecialists, leaders in their fields in both diagnostics and treatment, recognized by their peers for their dedication to medical excellence and advancing science. Practicing at a teaching hospital gives us the ability to use the clinical model of collaboration and peer review. Patients' scans aren't processed for speed — they are often studied by more than one pair of expert eyes. In addition, we collaborate with major medical manufacturers in the design of new diagnostic technology, often giving us access to leading-edge equipment today not yet available to others until tomorrow.

**This is how radiology should be:  
the best images interpreted by the best minds resulting in the best treatments.**



*collaboration = expertise<sup>n</sup>*





# RADIOLOGY *services*

The collaboration between Shands Jacksonville and the University of Florida is reflected in the teamwork of imaging subspecialists, other board-certified radiologists, radiology fellows, radiology residents in training, imaging scientists, technologists, nurses and other healthcare professionals. Together, we are able to offer patients comprehensive radiological services.



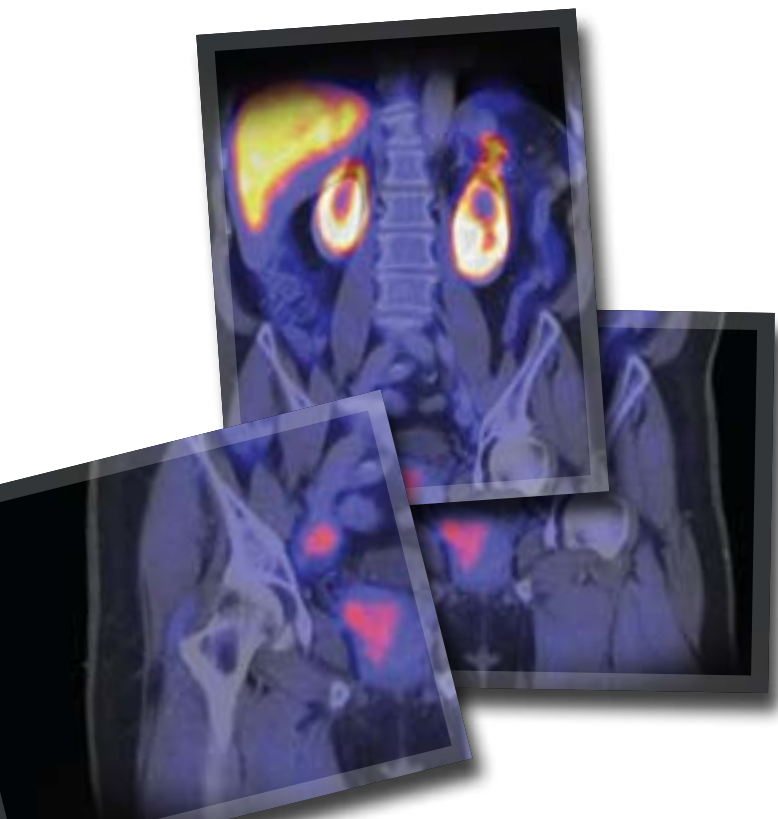
# ABDOMINAL *and* GENERAL BODY IMAGING

Noninvasive diagnostic imaging of the abdominal organs and adjacent structures, some structures of the neck, and veins of the legs are available at Shands Jacksonville. These images are obtained using CT, ultrasound, MRI and contrast-enhanced fluoroscopy technologies.

UF radiologists collaborate with their colleagues in many different adult medical and surgical services, since a wide diversity of clinical issues require radiologic consultation.

## Services and Treatments:

- Abdominal and pelvic CT
- Abdominal and pelvic MR imaging
- Abdominal ultrasound/doppler (liver, gallbladder, aorta and branches)
- CT and ultrasound-guided biopsy and drainage procedures
- CT angiography (aorto-iliac, renal artery)
- MR angiography (aorto-iliac, renal artery)
- MR cholangiopancreatography
- Neck ultrasound/doppler (thyroid and carotid)
- Obstetrical ultrasound
- Pelvic ultrasound/doppler (gynecologic, prostate and testicular)
- Upper and lower barium gastrointestinal studies

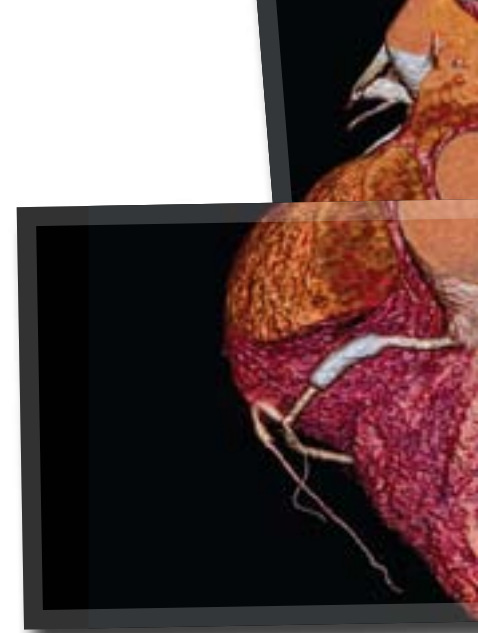


# CARDIOVASCULAR IMAGING

University of Florida radiologists, working in collaboration with clinical cardiovascular specialists, perform noninvasive diagnostic imaging of the heart, great arteries and veins, as well as surrounding structures.

## Services and Treatments:

- Cardiac CT
- Cardiac MR
- Cardiac PET
- Cardiac SPECT
- Coronary CT angiography
- CT coronary calcium scoring

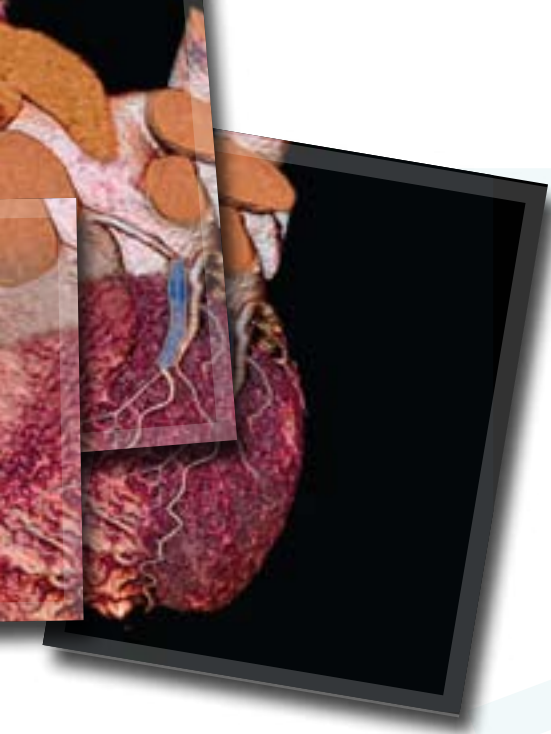


# DIAGNOSTIC and INTERVENTIONAL NEURORADIOLOGY

UF radiologists collaborate closely with specialists at the Shands Jacksonville Neuroscience Institute to provide a full array of diagnostic and interventional procedures. Diagnostic imaging covers the brain, spinal cord and surrounding structures. We also offer image-guided interventional procedures on structures that might otherwise require invasive surgery, including the spine and vertebral column as well as the blood vessels of the brain.

## Services and Treatments:

- Head and spine CT
- Neuro CT angiography
- Head and spine MR imaging
- Neuro MR angiography
- Percutaneous angiography (cerebral, spinal)
- Intracerebral vascular occlusive interventions (aneurysm and arterial-venous malformation embolization)
- Intra- and extra-cranial arterial stenting and angioplasty
- Fluoroscopy-guided diagnostic and therapeutic spinal procedures
- Pain relief injections



## *FUNCTIONAL and MOLECULAR IMAGING*

This service addresses physiologic and metabolic aspects of imaging. The most advanced imaging technologies are used to acquire functional and molecular information about tissue and disease in order to develop new therapies.

UF radiologists collaborate with their colleagues to provide radiological support to diagnose and treat neurological, pulmonary, cardiovascular, gastrointestinal, renal and musculoskeletal diseases, as well as cancer, degenerative and endocrinologic processes.

### **Services and Treatments:**

- Single photon emission computed tomography (SPECT) (neurological, body)
- Rest and stress cardiac SPECT
- Positron emission tomography (PET) (neurological, general body, cardiac)
- Positron emission tomography/computed tomography (PET/CT) (neurological, general body, cardiac)

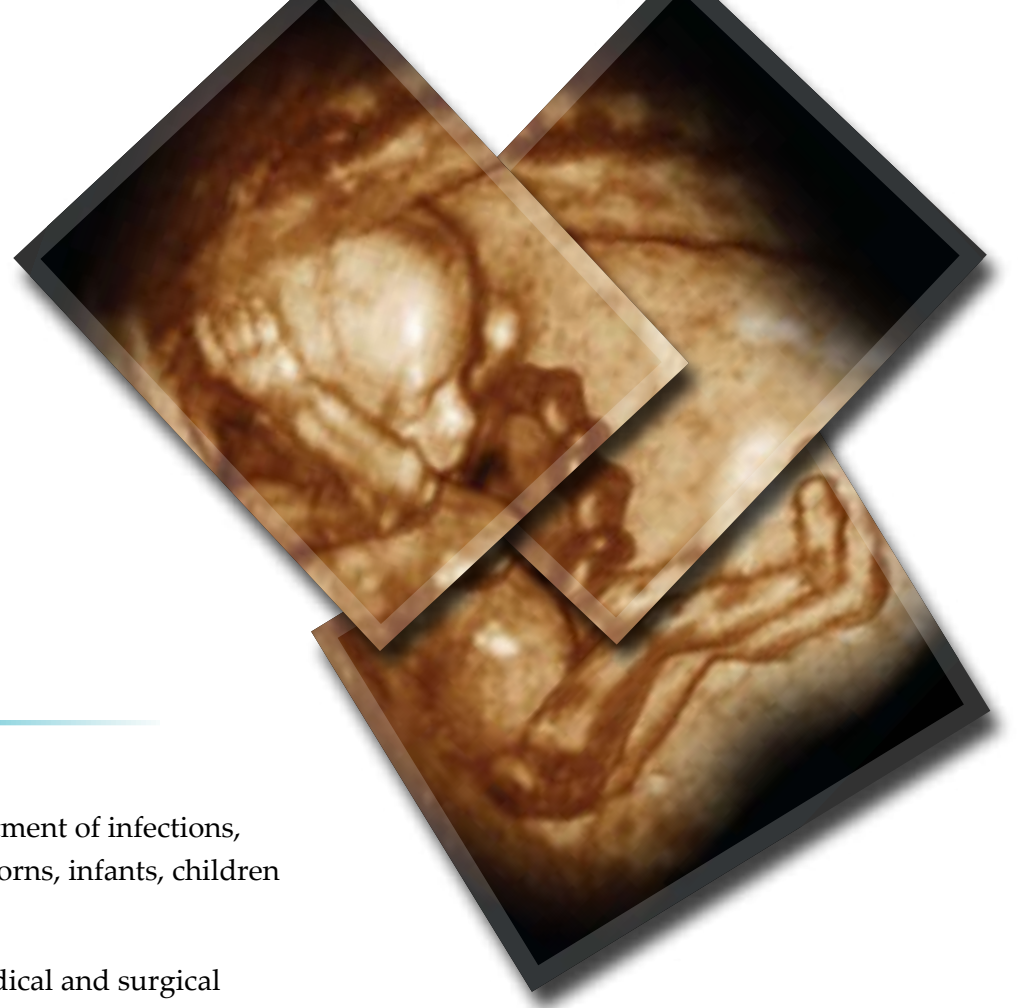
## *PEDIATRIC IMAGING*

Pediatric imaging services assist in the diagnosis and treatment of infections, cancer, congenital disorders and traumatic injury in newborns, infants, children and adolescents.

Here, UF radiologists collaborate with many different medical and surgical specialists and subspecialists at Shands Jacksonville and other area hospitals.

### **Services and Treatments:**

- Pediatric plain film examinations (head/neck, chest, abdominal/pelvic, extremity)
- Pediatric CT/CT angiography (head/neck, chest, abdominal/pelvic, extremity)
- Pediatric ultrasound/doppler (head/neck, abdominal/pelvic, extremity)
- Pediatric MR imaging/MR angiography (head/neck, chest, abdominal/pelvic, extremity)
- Fetal MR imaging
- Pediatric upper and lower barium gastrointestinal studies

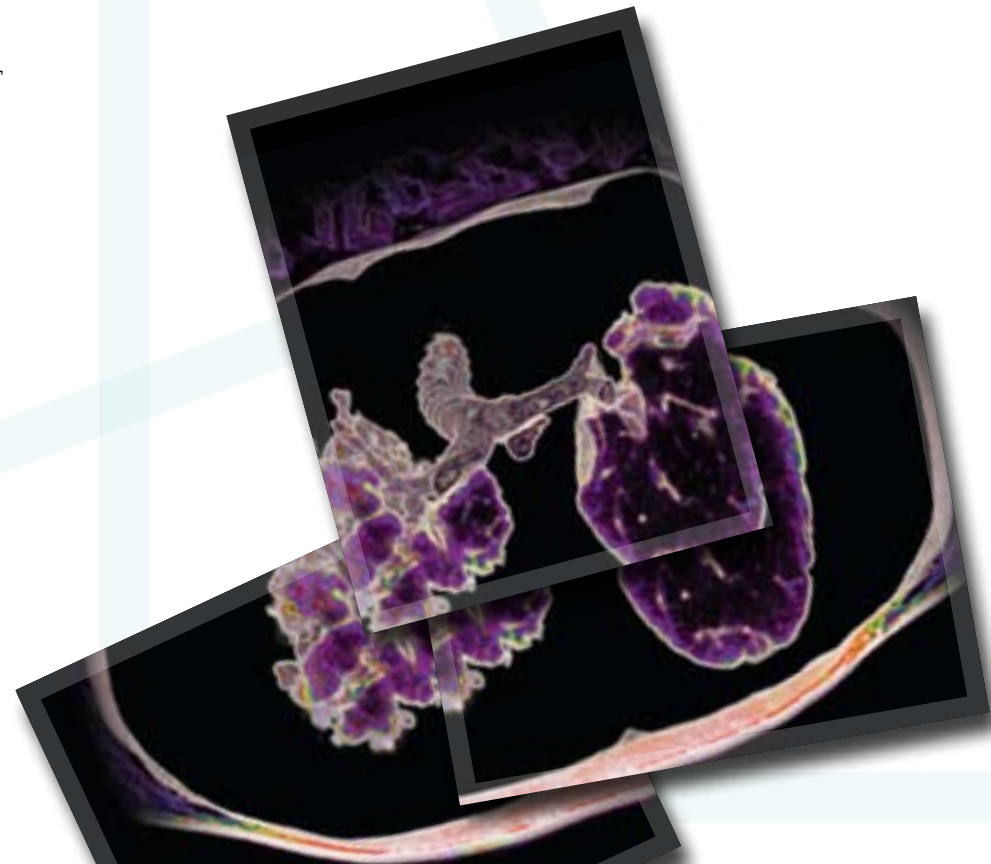


# THORACIC IMAGING

UF radiologists, thoracic specialists, pulmonologists and cardiothoracic surgeons at Shands Jacksonville collaborate to focus on the delivery of noninvasive diagnostic imaging of the lungs, pulmonary arteries, mediastinum and chest wall. The imaging may be accompanied by directed biopsies of masses.

## Services and Treatments:

- Chest CT and CT angiography
- Chest MR imaging and MR angiography
- Chest PET
- CT-guided lung biopsy
- High-resolution lung CT



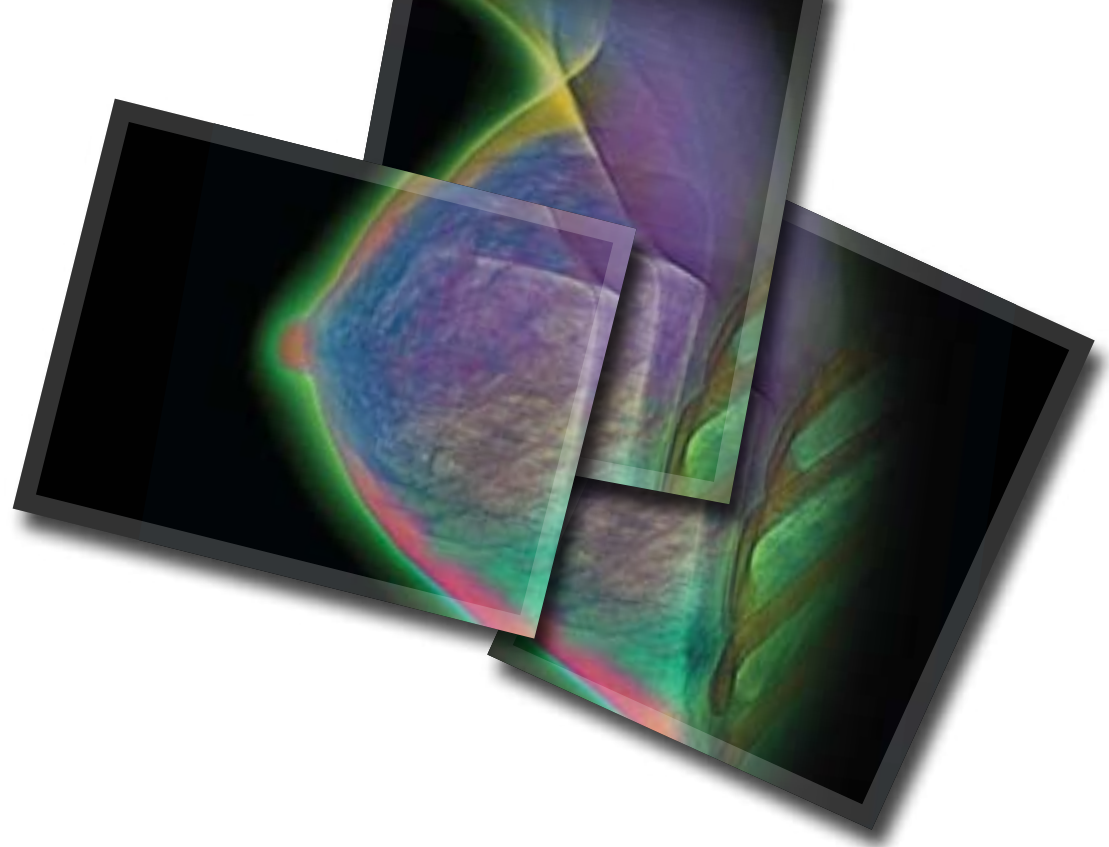
# VASCULAR *and* INTERVENTIONAL RADIOLOGY

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Working in collaboration with UF vascular surgeons practicing at Shands Jacksonville, UF radiologists provide “road maps” that help guide catheters and other instruments used for both diagnoses and treatments.

## Services and Treatments:

- Conventional aortography and selective angiography
- Aortic endovascular stenting
- Branch artery (e.g. renal) stenting/angioplasty
- Thrombolytic and vascular occlusive therapy
- Interventional oncology therapy (chemoembolization, radiofrequency ablation)
- Inferior vena caval filter placement
- Gastrointestinal and genitourinary interventions
- Dialysis therapy procedures
- Uterine artery embolization fibroid therapy
- Hepatic vascular procedures
- Endovascular laser therapy for varicose veins
- Indwelling catheter placement



## WOMEN'S IMAGING

Shands Jacksonville has expanded women's imaging services at its Breast Health Center (ACR accredited) and the new Advanced Breast Imaging Center at Emerson Medical Plaza to include the latest, most advanced diagnostic technologies.

### Services and Treatments:

- Conventional and digital mammography
- Breast ultrasound, including elastography and 3-D automated ultrasound
- Image-guided biopsy and localization procedures
- Bone densitometry

# STATE-OF-THE-ART DIAGNOSTIC IMAGING *technology*

Shands Jacksonville is a leader in cutting-edge radiological technology. University of Florida specialists work with Siemens and other manufacturers to help them design equipment and develop new diagnostic procedures to meet the needs of those at the forefront of radiology. Shands is among the first institutions in the medical field to acquire these new technologies.



# COMPUTED TOMOGRAPHY (CT)

## Siemens Definition (Dual Source CT Scanner)

The world's first CT scanner, when combined with state-of-the-art 64-detector technology, allows the scan of any heart at any heart rate and at the lowest radiation dose ever achieved. It allows physicians to examine patients who are short of breath, have high heart rates or are uncooperative quickly without restriction.

## Siemens Sensation 64 (64-Slice CT)

This scanner images 64 slices per rotation with previously unknown sharpness, diagnostic detail and clarity with the industry's highest routine isotropic resolution (0.33 mm). It allows large volumes to be scanned at the optimal time following intravenous contrast administration.

# DEXA BONE DENSITOMETRY

## Norland XR 600 and Norland XR 800

These scanners obtain the most precise and timely information when evaluating bone density. They have specialized software that detects changes over time and offers a more detailed analysis of bone density. Their ability to scan the whole body within just five minutes makes them convenient, while their ability to distinguish soft tissue and bone and minimize x-ray exposure makes them accurate and safe.

# *IMAGE REVIEW and ANALYSIS*

## **McKesson Picture Archiving and Communication System (PACS)**

This system provides hospitals and clinics with the very best in image and information management solutions. Referring physicians are provided with patient images as part of a complete medical record in order to improve decision-making and to ensure patient safety. The Horizon Medical Imaging PACS integrates images from multiple modalities with clinical patient data in order to streamline radiology department workflow and improve radiologist efficiency.

## **Commissure RadWhere (Voice Recognition)**

This front-end speech recognition system works for academic medical centers, hospitals and imaging centers with unique workflow, data-driven reporting and communication needs. Its ability to reduce turnaround time, connect to radiology content and audit critical communications improves multi-site workflow and maintains productivity anywhere.

## **TeraRecon Aquarius**

Real-time diagnostic reviews of 2-D, 3-D and 4-D images offer a comprehensive suite of clinical application modules. It is designed for streamlined workflow and ease-of-use. And when it comes to cardiovascular CT, the enhanced software offers soft plaque analysis, automatic vessel segmentation and extraction, measurement, interpretation and reporting tools.



## *MAGNETIC RESONANCE (MR)*

### **Siemens MAGNETOM Trio with Tim (3.0T)**

As the first fully integrated 3T system, Tim (Total Imaging Matrix) allows for the widest range of applications possible. No more having to send patients elsewhere. It's faster — scans that used to take one hour can be completed in just five minutes. It's more comfortable, especially for very sick, frail or pediatric patients. And it's more flexible, thanks to parallel imaging, which means no need for patient repositioning.

## *MAMMOGRAPHY*

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### **Siemens Mammomat Novation (Digital Mammography)**

With screening, diagnostic and biopsy capabilities, the Mammomat Novation is the first detector allowing for imaging of virtually all breast sizes. Its dual target anode W/Mo reduces doses up to 50 percent.

### **iCAD**

Breast cancer is detected at its early stages through the technology of Computer-Aided Detection (CAD). It does more than a typical mammogram, it detects up to 72 percent of actionable missed breast cancers an average of 15 months earlier. This treatment option costs less, is less invasive as well as less disfiguring and saves lives.

## *NUCLEAR / MOLECULAR IMAGING*

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### **Siemens Biograph 40 (Hybrid PET and 40-Slice CT)**

This flexible, high-powered medical imaging platform offers an unmatched range of performance options to enhance image resolution and quality with remarkable speed and a smaller footprint.

# ULTRASOUND



## ACUSON Sequoia

This is the ultimate system in clinical imaging and applications across ultrasound specialties. It provides superior imaging for each patient with Native™ patient-specific imaging. This technology adapts to both phase and amplitude information to each patient's unique properties in real time. And it conveniently and consistently delivers good image quality across a broad range of patients.

## SomoVU 3-D Breast System

This automated breast ultrasound system provides 3-D ultrasound images of breast tissue and methodically scans a woman's breast, capturing up to 350 ultrasound images that can be rendered and reviewed in 3-D. It provides a fast, cost-effective, patient-friendly solution for breast scanning.

## ACUSON Antares with Tissue Elastography

A complete ultrasound solution, this system combines state-of-the-art 2-D ultrasound imaging with elastography for improved characterization of tissues in the differentiation between benign and malignant conditions.



# HOW TO REFER YOUR *patients*

## CALL

Main Referral and Appointment Line	(904) 244-7233
Mammography 8th Street	(904) 244-9400
Mammography Emerson Street (Advanced Breast Imaging Center)	(904) 633-0275
MR-Cardiac	(904) 244-1190
MR-All Others (Non-cardiac)	(904) 244-8922
Special Procedures Scheduling (Angio/Interventional)	(904) 244-6086
Other Scheduling Assistance	(904) 244-3397

## FAX

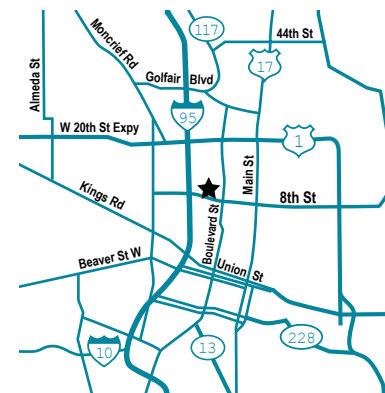
Fax	(904) 244-3817
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## CLICK

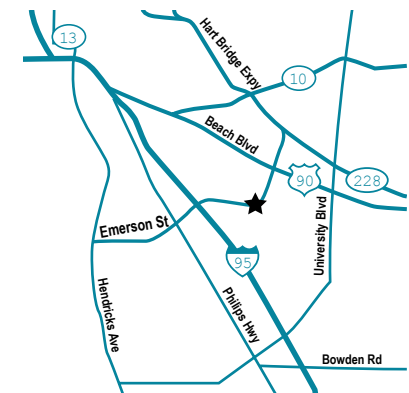
Web	<a href="http://jax.shands.org">jax.shands.org</a>
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## VISIT

655 W. 8th St.  
Jacksonville, FL 32209



4555 Emerson St.  
Jacksonville, FL 32207



For more information on our services or if you have clinical questions, please call (904) 244-4224.