

## Vascular Ultrasound

A vascular ultrasound is focused on blood circulation. Examinations include:

- *Echocardiography* – evaluates the heart, its valves and the pericardium
- *Arterial Doppler and Duplex* – evaluates arterial blockages in the arms and legs
- *Venous Duplex* – evaluates the venous structures for blood flow
- *Aorta* – evaluates the main blood vessel leading away from the heart
- *Carotid* – evaluates blood flow through the carotid arteries located on each side of the neck
- *Renal Artery* – evaluates the arteries that provide blood flow to the kidneys

## Nuclear Medicine

Through our partnership with DMS Mobile System, Kirby Medical Center is proud to provide state-of-the-art nuclear medicine, which can identify disease in its earliest stages as well as determine a patient's immediate response to treatment. By viewing activity at the molecular level, nuclear medicine can diagnose, determine the severity of and treat a variety of diseases, including many cancers, heart disease and gastrointestinal and neurological disorders.



## Diagnostic Imaging



## Diagnostic Imaging

### *Obtaining a Clear Picture of Your Health*

Kirby Medical Center provides comprehensive and advanced diagnostic imaging services to aid in the diagnosis and treatment of a range of medical conditions. Imaging services are performed under the supervision of experienced radiologists using the most up-to-date equipment and technology.

## General Radiology

At Kirby Medical Center, we offer digital X-rays 24/7. All staff technologists are registered (ARRT) and licensed (IEMA) to perform radiological exams. A radiologist will review the images taken and provide a detailed report to your ordering provider.

## CT Scanning

Computed Tomography with a 64-Slice Unit (CT) provides greater clarity and detail of internal organs, bone, soft tissue and blood vessels than regular X-ray exams. With a CT scan, radiologists can more easily diagnose cancers, cardiovascular disease, infectious disease, trauma and musculoskeletal disorders.

CT scanning is available 24 hours a day. (After hours and weekends, CT scanning is available through the Emergency Department.)

## MRI

Through our partnership with OSF Mobile Medical Systems, we're pleased to provide high definition MRI. This is a powerful diagnostic tool that uses no radiation. Instead, MRI uses a large magnet to obtain detailed scans of anatomy and soft tissue detail.

## Bone Densitometry

A quick and painless bone mineral density test can provide a snapshot of bone health and is an essential service for those at risk of developing osteoporosis. The test can identify osteoporosis and measure a patient's response to osteoporosis treatment. Bone density is measured at the hip, spine and possibly wrist.

## Digital and 3D Mammography

Digital and 3D Mammography services are performed in our Women's Imaging Suite, which provides a comfortable and private environment for these life-saving screenings. 3D Mammography is an advanced diagnostic tool that delivers more precise imaging, resulting in earlier and better detection, fewer callbacks and reduced rates of false-positive readings compared to traditional mammography.

## PET/CT

Through our partnership with OSF Mobile Medical Systems, Kirby Medical Center is able to provide Positron Emission Tomography (PET) and Computed Tomography (CT) scanning. PET scanning involves the injection of an isotope, which identifies areas of increased glucose activity. These areas of increased activity indicate rapid cell growth and potential tumors. Images from both exams can be used to provide a high level of accuracy in diagnosing tumors.

## General Ultrasound

Ultrasound uses high frequency sound waves to more closely examine certain areas of the body. No radiation is emitted during an ultrasound. Examinations include:

- *Pelvic* – evaluates potential abnormalities in the uterus and ovaries
- *Renal* – evaluates the kidneys and bladder
- *Small Parts* – evaluates the thyroid, scrotum, testes and superficial sites
- *Abdomen* – evaluates the organs located within the upper abdomen