



TOPIC FOR TUESDAY, JANUARY 14, 2025

Department Spotlight: All About Medical Imaging at the Wynn Hospital

MVHS Medical Imaging provides the most advanced diagnostic and interventional radiology using radiation, sound waves or magnetic fields in medical diagnosis and includes imaging technology such as X-rays, computed tomography (CT), nuclear imaging, magnetic resonance imaging (MRI) and ultrasound.

MVHS has been designated by The American College of Radiology (ACR) as a Center of Excellence for Breast Ultrasound, Stereotactic Breast Biopsy, Mammography, Ultrasound, Positron Emission Tomography (PET), CT and Nuclear Medicine services.

The Medical Imaging Department at Wynn also has a robust Interventional Department available around the clock for emergent procedures.

Where is Medical Imaging located?

Medical Imaging is located at the very center of the first floor at Wynn, strategically placed adjacent to the Emergency Department for immediate imaging of stroke and trauma patients. Interventional Imaging is on the second floor adjacent to Surgery.

How many employees work in Medical Imaging?

There are 43 full-time employees working in the first floor Medical Imaging Department and 22 individuals working in the Interventional Department on the second floor.

What is a typical day like?

In a typical day, Medical Imaging sees patients ranging from newborns to centenarians; inpatients, outpatients and ED patients. The department provides C-arm imaging in Surgery as well as portable imaging throughout the building.



X-RAY – X-rays use radiation to create black-and-white images and are most commonly used to look at bones and joints but can also diagnose other conditions like lung infections.



PORTABLE X-RAY – This allows for X-rays to be taken in exam rooms so the patient does not have to be transported.



TWIN ROBOTIC X-RAY – This machine is primarily used for trauma patients or patients who might have a difficult time with the standard X-ray. It can rotate around the patient so that they do not need to move in order to get the image. The Wynn Hospital is one of the only hospitals in the country to have one.



ULTRASOUND ROOM – An ultrasound uses sound waves to create real-time images or video of the soft tissues inside your body.



NUCLEAR IMAGING – Nuclear medicine imaging is a method of producing images by detecting radiation from different parts of the body after a radioactive tracer is given to the patient. Nuclear imaging is used primarily to diagnose or treat illnesses such as thyroid disease, heart disease, gallbladder and kidney diseases, lung and bone problems and blood disorders.



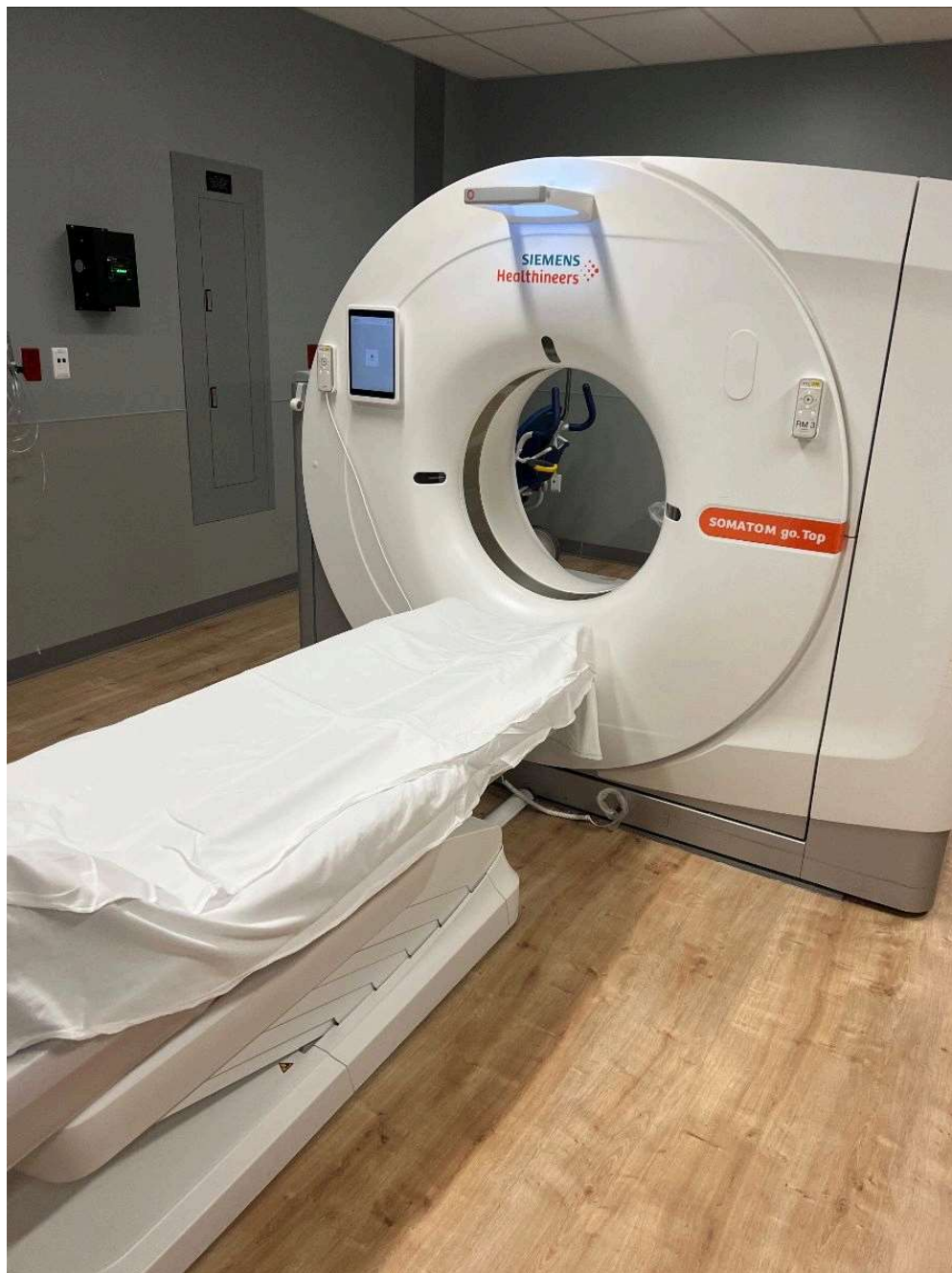
MRI – Creates clear images of the structures inside your body using a large magnet, radio waves and a computer. This MRI machine is also used for breast MRI scans that tend to be more comfortable and take less time than other MRI machines in the area.



The technician's view of the MRI procedure.



A CT scan is an imaging test that uses a series of X-rays and a computer to create detailed images of bones and soft tissue.



This CT machine is equipped with a camera so the technician is able to see the area that needs to be imaged more clearly and allows the tech to focus in on that area with greater accuracy.

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