

# Diagnostic Imaging (Radiology) Services

## **Bone Density (DEXA)**

Dual-energy X-ray Absorption (DEXA) measures bone mineral density. This modality is used to diagnose osteoporosis or osteopenia. There is no prior preparation prior to this exam. Wahiawa General Hospital utilizes a Hologic DEXA unit.

A doctor's order is required for a Bone Density.

## **CT (Computed Tomography)**

CT scans are painless diagnostic tests that use conventional X-rays. A series of pictures is reconstructed by a computer into cross-sectional views, allowing physicians to see inside areas that cannot be seen on conventional X-ray images. Due to recent advances in CT technology, physicians can detect many more conditions and start planning necessary treatment much earlier than ever before.

Wahiawa General Hospital has a state-of-the art 64 slice Toshiba Aquilion CT scanner. This advanced technology delivers superior patient care and enhanced diagnostic confidence. New clinical procedures such as 3D CT angiography exams can be performed with this cutting-edge technology and at a speed much faster than conventional CT scanners.

A doctor's order is required for a CT.

## **Mammography**

Women who undergo routine mammograms at Wahiawa General Hospital have the latest diagnostic technology available to them. Wahiawa General Hospital was one of the first hospitals in Hawaii to offer breast cancer screening with a Selenia® Dimensions® 2D/3D full field digital mammography system.

Wahiawa General Hospital is committed to the fight against breast cancer. Breast cancer is the second leading cause of cancer death among women, exceeded only by lung cancer. Statistics indicate that one in eight women will develop breast cancer sometime in her life. The stage at which breast cancer is detected influences a woman's chance of survival. If detected early, the five-year survival rate is 97%.

A doctor's order is required for a Mammogram.

## **Nuclear Medicine**

Nuclear medicine at Wahiawa General Hospital is a medical specialty that uses safe, painless, and cost-effective techniques to both image the body and treat disease. Nuclear medicine imaging is unique in that it documents organ function and structure, in contrast to diagnostic radiology, which is based upon anatomy. It is a way to gather medical information that may otherwise be unavailable, require surgery, or necessitate more expensive diagnostic tests.

A doctor's order is required for a Nuclear Medicine.

## **Ultrasound**

Wahiawa General Hospital utilizes state of the art Toshiba (currently Canon) Aplio 300 Ultrasound Scanner with its proprietary imaging technology to provide uncompromising image quality and penetration. This system allows Wahiawa to perform the following ultrasound exams: OB/GYN, Abdominal, Renal, Bladder, Thyroid, Testicular, Gallbladder, Breast, Vascular (arterial and venous), as well as Ultrasound guided biopsies and drainages.

A doctor's order is required for an Ultrasound.

## **X-ray**

X-rays consist of many procedures that include fluoroscopic studies of the gastrointestinal tract and radiographs of the chest, extremities, kidneys, spine and head.

Some procedures require a preparation prior to the exam. Gastrointestinal tract exams may require fasting or taking a bowel preparation. Pregnant patients should inform their primary physician that they are pregnant.

X-ray procedures are performed in two clinical rooms within the department. Modern X-ray equipment manufactured by General Electric Medical Systems is used to perform studies. In 2017, we received a very generous donation from the Auxiliary. With that donation we were able to move into the digital age of radiology with a new Shimadzu DR portable X-ray unit and a retrofitted X-ray exam room with a Konica DR system. Digital Radiography (DR) is more sensitive than conventional film or computed radiology, resulting in lower radiation exposure to our patients and our staff. DR has more detailed resolution, creating clearer and sharper images to help diagnose hairline fractures and small pathology.

A doctor's order is required for an X-ray.