



Banner Boswell
Medical Center

Medical Imaging

Banner Boswell Medical Center relies on comprehensive, state-of-the-art medical imaging technologies and expertly trained imaging professionals to help fulfill its mission of delivering excellent patient care.

Banner Boswell's highly-trained radiologists, certified associates and the latest generation of imaging tools and technologies deliver high-quality diagnostic care to aid in the early detection, examination, diagnosis and treatment of various illnesses, injuries and abnormalities. In many cases, early detection leads to improved patient outcomes by enabling physicians to initiate treatment regimens at the earliest stages of illness.

Inpatient and Outpatient Services

Banner Boswell provides comprehensive inpatient and outpatient services in all areas of imaging including Computerized Tomography (CT or CAT Scans), Diagnostic Radiography Imaging (X-rays), Fluoroscopy, Magnetic Resonance Imaging (MRI), Nuclear Medicine, Interventional Radiology and Ultrasound.

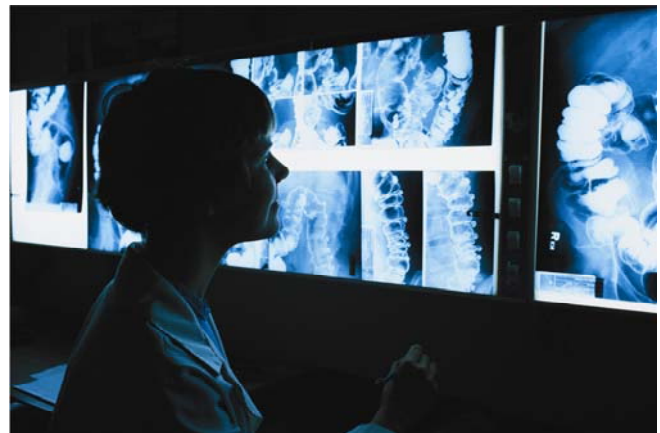
Many of the physicians working at Banner Boswell have additional training and certification, such as Neurological Imaging, Interventional Radiology, Body Imaging, Breast Imaging, Nuclear Medicine and Ultrasound. These physicians provide expert readings of the images obtained by the highly sophisticated imaging tools to ensure the best possible diagnosis and care.

Additionally, the Medical Imaging department at Banner Boswell employs highly trained and certified associates to perform complex imaging exams. These professionals are nationally licensed by the American Registry of Radiologic Technologists and with the Arizona Medical Radiologic Technologist Board of Examiners. The department also utilizes registered nurses to provide care and comfort during imaging procedures, or to assist with light sedation and the coordination of anesthesia.

Located across the street just north of hospital's main entrance, Banner Boswell Medical Center – Imaging Center (Lakes) offers state-of-the-art Medical Imaging technology to assist physicians in diagnosing diseases and injuries. This outpatient center provides the latest in diagnostic services in all areas of imaging including Diagnostic Radiography (X-rays), PET/CT imaging, MRI and Ultrasound. For more information or to schedule an appointment, please call (623) 876-5316.

PACS Technology

Banner Boswell's Medical Imaging department utilizes Picture Archival Communication System (PACS) technology. Providing a filmless environment, the PACS technology allows Medical Imaging personnel to store, send and retrieve high quality, digital images almost instantly. Images can also be sent to a physician's office via a secure Internet connection or provided to a patient on a compact disc that can be viewed later in the physician's office.





Medical imaging plays a key role in the accurate diagnosis of an array of medical conditions ranging from Alzheimer's disease to heart disease and cancer. Physicians refer inpatients, outpatients and emergency patients to Banner Boswell for an array of imaging procedures including:

Computerized Tomography (CT) – With three state-of-the-art scanners on campus, radiologists are able to perform diagnostic and interventional procedures in cardiology, emergency, neurology and orthopedics, including biopsies, drainages, blocks, and vertebroplasties. All of Banner Boswell's CT Scanners are certified by the American College of Radiology.

Diagnostic Radiography and Fluoroscopy – Accuracy of exams is enhanced through fully digitized X-ray rooms and fluoroscopy units. A full scope of diagnostic X-ray procedures is offered, including specialized exams such as barium enemas, upper GI studies, lumbar punctures, arthrograms (knee, shoulder, ankle, hip, or wrist joints), esophagrams, enteroclysis (small intestine) and hysterosalpingograms (uterus and fallopian tubes).

Interventional Radiology – This subspecialty of medical imaging involves minimally invasive diagnostic and treatment procedures performed using image guidance. Tiny catheters and miniature instruments inserted into the body through a small opening in the skin are guided through a patient's network of arteries to internally treat conditions. Several diagnostic and treatment procedures including uterine fibroid embolization, endovenous laser ablation of varicose veins, stenting, transarterial chemoembolization and radiofrequency ablation of tumors are utilized.

Magnetic Resonance Imaging (MRI) – An MRI scan is typically used as an extremely accurate method of disease detection throughout the body from the brain and spinal cord to the structure of the heart and other organs, as well as joints, soft tissues and bones. New technology provides faster MRI scans, with higher resolution images in a less confining patient tunnel. All of Banner Boswell's MRI Scanners are certified by the American College of Radiology.

Nuclear Medicine – This unique type of medical imaging uses very small and safe amounts of radioactive materials in conjunction with a specialized camera to diagnose and treat disease. The images produced by Nuclear Medicine can show such organs as the heart, thyroid, liver, bones, kidneys, lungs and many others functioning within the body. Nuclear Medicine provides an important and cost effective diagnostic and treatment resource for physicians and their patients.

Positron Emission Tomography (PET) – PET allows radiologists to determine the metabolic rate of living tissue. This imaging modality plays an increasingly important role in the care of oncology patients. PET can display where certain chemical processes are taking place and therefore show the various organs at work in the body. Information obtained from PET procedures is important to physicians because the detailed pictures can tell them if organs and tissues are diseased or healthy.

Ultrasound – Ultrasound uses high frequency sound waves to create images of the internal organs. It is primarily used with obstetrical, vascular and abdominal patients but is also used for biopsies. Banner Boswell's Ultrasound units are certified by the American College of Radiology.

Women's Diagnostic Services – Our Women's Diagnostic Services department provides breast health services such as breast biopsy, breast MRI, breast ultrasound, cyst aspiration, ductogram, needle localization, screening and diagnostic digital mammograms. Additionally, we offer bone densitometry (DEXA scans) to aid in the prevention, diagnosis and treatment of bone diseases such as osteoporosis. Banner Boswell's Mammography Department is certified by the American College of Radiology and the FDA's Mammography Quality Standards Act (MQSA).

