



## Banner Good Samaritan Medical Center



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### Medical Imaging Services

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

A leader in specialized medical care, Banner Good Samaritan utilizes highly-trained radiologists and the latest generation of imaging tools and technologies 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.

To provide the most accurate imaging services, Banner Good Samaritan Medical Center works in partnership with Banner Imaging Associates (BIA), a group of board certified radiology physicians. This highly specialized group brings additional training and certification in such areas as interventional radiology, neurological imaging, body imaging, breast imaging, nuclear medicine and ultrasound. BIA specialists work closely with your physician to provide knowledgeable interpretation of images that can assist in diagnosis and, in some situations, minimally-invasive treatment options.

Banner Good Samaritan's dedication to improving patient care serves as the foundation of its many research endeavors. The hospital's Medical Imaging department plays a key role in its ongoing research initiatives by giving researchers unmatched insight into the human body.

At the forefront of technological advancements, the

Medical Imaging department at Banner Good Samaritan uses the latest Picture Archival Communication System (PACS) technology to communicate with your physician and send imaging results via a secure Extranet connection. This state-of-the-art communication system improves efficiency and productivity throughout the hospital, with physician offices, and other hospitals around the state.

**Imaging Technologies**  
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 Good Samaritan for an array of imaging procedures including:

**Computerized Tomography (CT)** – With three state-of-the-art scanners, radiologists are able to perform diagnostic and interventional procedures in cardiology, emergency, neurology and orthopedics, including biopsies, drainages, blocks, and vertebroplasties. CT scans are also merged with MRI and PET scans for unique needs.



*Interventional Radiology (above) provides alternatives to several major surgeries. PACS (top) allows physicians to review imaging tests from any computer in the hospital or the office.*

## Banner Good Samaritan Medical Center - *Medical Imaging Services*

**Diagnostic Radiography and Fluoroscopy** – Diagnostic X-rays are offered of all body parts as well as specialized exams including upper GI studies and swallow studies.

**Magnetic Resonance Imaging** – New technology provides faster MRI scans, which is especially important for a patient who is not able to hold their breath during the test. MRI is also used in tandem with PET imaging to provide brain function imaging to guide neurosurgeons in sparing important areas of the brain during neurosurgery.

**Interventional Radiology** – a subspecialty of medical imaging in which minimally invasive diagnostic and treatment procedures are 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.



*Banner Good Samaritan has dedicated ultrasound technicians for both obstetrical imaging and diagnostic tests. The Laura Dreier Breast Center (top) has a long tradition of providing diagnostic imaging and treatment to Valley residents.*

**Nuclear Medicine** – Nuclear Medicine provides comprehensive tests including bone scans, cardiac studies, thyroid exams, treatment of thyroid cancer, sentinel node identification, liver, and GI studies. The section also has a radio-immune-assay (RIA) laboratory to provide blood analysis using special techniques. While the name gives some of our patients concerns, these tests are quite safe.

**Ultrasound** – When patients think of ultrasound technology, they most often consider this a diagnostic tool for pregnant women. Banner Good Samaritan radiologists perform thousands of obstetrical ultrasound every year and are known for having the ability to provide a diagnosis or second opinion in very high-risk pregnancies. However, this low-risk scan is



also used frequently in vascular and oncology cases.

**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. Banner Good Samaritan's PET Center has also emerged as a nationally-recognized research center for the detection of the early stages of Alzheimer's disease.

### **Laura Dreier Breast Center**

Laura Dreier was determined to help other women facing breast cancer after enduring a double mastectomy and drug therapy following her diagnosis in 1993. In 1999, Dreier and her daughter Jill Alenko made a pledge through the Jonathan Dreier Foundation to the Good Samaritan Breast Center. In recognition of her significant gift, the Breast Center was renamed the Laura Dreier Breast Center.

This comprehensive breast and bone health prevention, diagnosis and treatment facility serves thousands of women across the greater Phoenix area each year through such services as screening mammograms, diagnostic breast exams, breast biopsy, breast MRI and ultrasound, cyst aspiration, ductograms, needle localization and bone density studies. Additionally, the Reaching Out: Laura Dreier Breast Health Program helps meet the breast health needs of underserved women across the Valley.

With breast and bone health specialists and the latest medical imaging technologies together under one roof, the Laura Dreier Breast Center effectively screens patients and provides diagnoses in a matter of days. When one's health is in question, results can never come too soon.

The Laura Dreier Breast Center provides such breast health services as biopsy, breast MRI, breast ultrasound, cyst aspiration, ductogram, needle localization, screening and diagnostic digital mammograms and more.