



**Banner Good Samaritan**  
Medical Center



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## Radiation Oncology

The Department of Radiation Oncology at Banner Good Samaritan Medical Center offers state-of-the-art radiation therapy treatment for cancer and some non-malignant neoplasms such as acoustic neuromas, keloids, and Arterio-Venous Malformation.

External beam irradiation can be used in the conservative treatment of breast cancers, brain tumors, head and neck cancers, skin cancer, prostate cancer, gynecological cancers and lung cancers.

When combined with chemotherapy, it can be used to treat many gastrointestinal or colorectal malignancies, connective tissue tumors, bladder cancer and advanced breast cancers.

### Treatment Options

According to the National Cancer Institute, two thirds of all cancer patients receive radiation therapy during their illness. Most of our procedures involve external beam radiation treatment using linear accelerators, which include specialized techniques such as Intensity Modulated Radiation Therapy, Stereotactic Radiosurgery, Fractionated Stereotactic Radiation Therapy



Several other methods of radiation delivery are also used when appropriate. These include High Dose Rate Brachytherapy, permanent Low Dose Rate Brachytherapy, Total Body Irradiation and Total Skin Electron

Therapy. Banner Good Samaritan is the radiation therapy provider for Phoenix Children's Hospital and Phoenix Indian Medical Center.

We have a team of radiation oncologists, medical physicists, dosimetrists, radiation therapists, oncology nurses, and support staff including social services and a registered dietician to provide the highest quality care. Our three board-certified radiation oncologists consult with patients to determine the best course of treatment.

The treatment is planned and verified with highest quality assurance by two board-certified dosimetrists and three physicists. Licensed radiation therapists deliver the planned treatments and our oncology nurses, social services and nutrition staff monitor our patients.

We use computer systems that can reconstruct diagnostic images in 3-D. We may use Positron Emission Tomography (PET), Computerized Tomography (CT) and Magnetic Resonance Imaging (MRI) to most effectively treat the intended disease while sparing surrounding normal tissue.



*Patients completing their radiation treatments celebrate with staff by ringing a special bell. LEFT: The Novalis TX linear accelerator can deliver of a single high dose of radiation to a small, well-defined target within the head, while minimizing the radiation dose to the surrounding normal brain. It is just one of several tools available for patient treatment.*

*We exist to make a difference in people's lives through excellent patient care.*