



While undergoing radiation therapy, a specialized team will be working together to ensure the best care possible. This team includes a radiation oncologist, who oversees the care of patients undergoing radiation therapy, radiation therapists, medical physicists, dosimetrists, nurses, medical assistants, nutritionists, and social workers.

Radiation oncologists are physicians who are experts in the prescribing and delivery of radiation therapy, and who work closely with other cancer doctors such as medical oncologists and surgeons. At Havasu Regional Medical Center, our board-certified Radiation Oncologist offers compassionate care for the treatment of many types of cancer, including head and neck, breast, prostate, and lung. If necessary, he will assist in the coordination of your cancer care, including systemic therapy (chemotherapy/immunotherapy) and/or brachytherapy (low or high dose-rate radiation).

Our current linear accelerator is the True Beam EDGE® from Varian Medical Systems. The EDGE® is capable of external beam radiation therapy in the form of high energy X-rays or electron therapy. The EDGE® is capable of delivering state-of-the-art cancer treatments such as stereotactic radiosurgery and stereotactic body radiotherapy in the form of continuous arcs. This technique allows for rapid treatment of tumors with high doses of radiation therapy while sparing surrounding normal tissues. This may improve treatment-related outcomes, such as minimizing treatment-related side-effects. Prior to radiation treatment, radiation planning is performed utilizing a state-of-the-art GE Discovery CT Simulator. The CT Simulator helps our radiation oncologist perform 3- or 4-Dimensional tumor mapping, for improved tumor delineation.

Treatment Technology:

- ❖ Varian True Beam EDGE®
- ❖ GE Discovery® CT Simulator
- ❖ Optical Surface Monitoring System (OSMS)

Treatment Techniques:

- ❖ Stereotactic Radiosurgery (SRS)
- ❖ Stereotactic Body Radiotherapy (SBRT/SABR)
- ❖ Volumetric Modulated Arc Therapy (VMAT)
- ❖ Intensity Modulated Radiation Therapy (IMRT)
- ❖ Image Guided Radiation Therapy (IGRT)
- ❖ 3-Dimensional/2-Dimensional Radiation Therapy (3D/2D)
- ❖ 4-Dimensional Radiation Therapy
- ❖ Gating/Breath hold
- ❖ Electron Therapy

Radiopharmaceuticals:

- ❖ Strontium 89
- ❖ Samarium 153 (Lexidronam)
- ❖ Radium 223 (Xofigo)