RapidArc: Faster treatment for more cases

Speed and quality across the spectrum

Most cancers treatable with radiation can be treated faster with Varian RapidArc® radiotherapy technology. RapidArc delivers the precise dose distribution and conformity of IMRT and IGRT in a fraction of the time, often two minutes or less.

RapidArc has become routine technology in many centers. Hundreds of customers worldwide currently use RapidArc technology to treat thousands of patients. Community centers and large hospitals alike use it regularly to treat the most commonly occurring cancers as well as the demanding cases.

By simultaneously shortening treatment times and improving treatment accuracy, RapidArc technology represents a significant advance for improving the patient experience and increasing the efficiency of radiation oncology departments.

“Prostate tumors can move within the body during longer treatments, due to natural processes like bladder filling and bowel gas. With RapidArc, the chance of tumor motion during treatment is reduced.”

– Steven J. DiBiase, MD, Delaware Valley Urology Cancer Treatment Center, Robert Wood Johnson School of Medicine
RapidArc and rapid adoption

The speed and quality of treatment make RapidArc radiotherapy technology a powerful solution for a broad range of cancers. Some RapidArc programs choose to focus on specific treatment types and others use RapidArc across its broad indication. Some RapidArc programs choose to focus on prostate treatments. Prostate cases represent a large percentage of the overall patient population. The treatment site is well known to radiation oncologists and dosimetrists. The organs at risk are limited. RapidArc treatments to the prostate are typically faster than conventional IMRT treatments, with equivalent or improved quality plans.

Radiation oncologists will also frequently focus their RapidArc programs on treatment sites such as head & neck, brain and brain metastases, as these are commonly seen cancers at many treatment centers. Regardless of your center’s clinical focus, the speed and precision of the RapidArc solution enable you to quickly adopt RapidArc to meet your treatment needs.

Growing the program

RapidArc technology is capable of treating very challenging cases, even cases that might not otherwise be considered for radiation treatment. Multiple arcs allow treatment of larger targets or multiple tumors simultaneously. The ability to rotate the couch enables noncoplanar treatments for sparing organs at risk in complex areas. Delivering more monitor units per arc enables hypofractionated treatments in fewer arcs.

RapidArc isn’t a special purpose technology with limited application; it is a solution for the vast majority of any department’s caseload.

“The RapidArc treatment for early stage lung cancer was faster to deliver, more comfortable for the patient, and was superior in terms of both the amount of dose and the degree to which we could minimize exposure to the lung and spinal cord.”

– John Kresl, MD, PhD, Banner Good Samaritan Medical Center
Innovations with RapidArc

Varian RapidArc radiotherapy technology is more than two years ahead of all other commercially available VMAT solutions, and new applications for RapidArc are under continuous development by the radiation oncology community.

**Gated RapidArc** technology makes it possible to monitor patient breathing and compensate for tumor motion while quickly delivering dose during a continuous rotation around the patient. This development enables the use of RapidArc to target lung, breast, and abdominal tumors with greater precision by gating the beam during treatment.

**Large field treatments** for total bone marrow, cranial/spinal, whole abdominal, pelvis/lymph nodes, and Hodgkin’s Lymphoma are now being delivered with RapidArc technology.

**Stereotactic Body Radiotherapy (SBRT)** treatments utilizing RapidArc may provide new treatment options for patients with lung, pancreatic, liver, kidney, and pelvic cancers.

“In addition to standard head and neck and prostate treatments, a range of other indications, such as whole brain radiotherapy with simultaneous boost to multiple brain metastases, pelvic tumors and small lung tumors are now being treated with RapidArc.”

– Ben Slotman, MD, Vrije Universiteit Medical Center (VUMC)

Improvements in workflow and planning efficiency continue with each generation of RapidArc. Implement RapidArc technology in your department – expand treatment options, save time, and improve the patient experience.

*For additional RapidArc treatment planning images, please visit: www.varian.com/rapidarcgallery. Contact your local sales office for more details.*

Images courtesy of Innovative Cancer Institute, Miami, FL; Decatur Memorial Hospital, Decatur, IL; Istituto Oncologico della Svizzera Italiana, Bellinzona, Switzerland; and Banner Good Samaritan Hospital, Phoenix, AZ

* Gated RapidArc treatment plan from Istituto Oncologico della Svizzera Italiana was not clinically delivered.
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