

Varian in Radiotherapy (Accelerators, Software...)

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Varian Oncology Systems' mission is to innovate, support and simplify cancer-fighting solutions everywhere so we can realize our vision of a world without fear of cancer. Through this presentation we highlight the key milestones of linear accelerator's evolution and we investigate the role of different technical components in the beam line from RF generator through waveguide to MLC, which are all responsible for the beam quality. We also collect the complex duties of a medical physicist in the radiotherapy supply chain and we show how Varian Medical System is helping the physicists to perform their job on highest level in the daily routine. We touch the process of commissioning, machine and plan QA tools, cloud-based approaches of preventive service and knowledge-based planning. We also introduce how Varian believes in the global society of medical physicists, who are smartly utilizing 21th century networking for their professional work and sharing experience and knowledge with others.