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【204】 FLASH therapy

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In biological experiments for radiotherapy, irradiation at ultra-high dose rates demonstrated a protective effect on the healthy tissue. The so-called FLASH effect, originally explored with electrons, is now being studied with other beams such as protons.

The presentation will discuss the experience of upgrading a proton beamline for FLASH experiments at the Center for Proton Therapy. It includes the technical changes to the beam line hardware, challenges in dosimetry and different beam delivery options. Results of first biological experiments will be reported as well as the implementation of a randomized FLASH study for first animal patients.

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