

Proton Therapy Technology in the Clinic

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Abstract—Proton therapy (PT) as a treatment modality is becoming more widely spread in the conventional radiation therapy practice. This process results in a trend toward embedding PT facilities in existing hospital environments. Also, technologically PT is currently going through an important evolution moving from passive scattering delivery techniques to active pencil beam scanning, and adopting image guidance techniques from conventional radiotherapy. An overview will be given of today's technological status of PT in clinical environments and its evolution toward becoming a main-stream technology in radiotherapy.