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PT perspectives and challenges: clinical

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Particle therapy using protons or heavier ions is currently the most advanced form of radiotherapy and offers new opportunities for improving cancer care and research. Ions deposit the dose with a sharp maximum (i.e. the Bragg peak) and normal tissue receives a much lower dose than what is delivered by X-ray therapy. Particle therapy has also biological advantages due to the high linear energy transfer of the charged particles around the Bragg peak. In this presentation we will review the clinical perspectives and challenges of particle therapy with a specific focus on the clinical trials where protons are tested against conventional radiotherapy.

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