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Advancements in particle therapy systems - acceleration and delivery

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Although the use of particle therapy continues to expand, specific challenges inhibit its broader penetration as well as its clinical efficacy under certain conditions: The size and cost of particle therapy systems and their operation are restrictions. Also, technical limitations associated with the achievable level of dose conformity often hinder the advancement of particle therapy in comparison to conventional techniques.

Current and up and coming technical innovations that may overcome these challenges will be discussed, including novel advancements in beam production, as well as advanced particle therapy delivery techniques.

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