



Proton Therapy Promises and Perils: What Progress Has Been Made?

Guest Editor:

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Deadline for manuscript submissions:

closed (31 March 2024)

Message from the Guest Editor

In 2009, AAPM hosted a special symposium on “The Promises and Perils of Proton Radiotherapy”. At that time, there were less than 10 proton therapy facilities operating in the US. Currently, there are 39 proton therapy centers in the US, and we are on the verge of building a carbon ion therapy center. This issue will attempt to look at the progress achieved since then. Intensity-modulated proton therapy (IMPT) has become the standard method of delivery. Medical physicists tout the promise of proton therapy as exhibited by the superior depth-dose deposition. Practitioners enjoy treatment plans able to spare large volumes of normal tissue. Meanwhile, substantial improvements in clinical outcomes are less easy to conclusively demonstrate. Has proton therapy lived up to our expectations? What new clinical evidence do we have supporting protons? What perils do we still need to address? How are uncertainties being managed? Is cost still a major issue? Is this the future we saw, and if not, when do we expect it?

In this Special Issue, we invite articles addressing clinical topics, both successes and work remaining to be carried out.





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Message from the Editor-in-Chief

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