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Recent Advances on the Role of Intensity-Modulated Radiotherapy in Cancer

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Message from the Guest Editor

The emergence of intensity-modulated radiotherapy (IMRT) was one of the most revolutionary events in radiation oncology in the past 20 years. It enables the optimization of doses to tumors and the sparing of normal organs with information technology. In this IMRT era, new research fields such as hypofractionation, reirradiation, and palliative stereotactic radiotherapy have been developed. Information technology, artificial intelligence, and quality control/assurance came to be the main issues in this era.

Recently, proton therapy (PT) has emerged as the next generation following IMRT. PT has a physical characteristic known as the Bragg peak, where protons deposit most of their energy over a finite range without exit dose. Despite the edge, the optimal role of PT is not as well-defined as IMRT for now. It is partially caused by the lack of enough clinical evidence that PT is superior to IMRT. If you forecast the future, IMRT may be still the main tool for most radiation oncologists in the next decade.

In this Special Issue, we aim to elucidate the role of IMRT by reviewing the literature and reporting new findings addressing some of the unanswered questions.



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Special Issue



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Message from the Editor-in-Chief

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