



Intraoperative Radiation Therapy in the Treatment of Cancer

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Message from the Guest Editor

Intraoperative Radiation Therapy (IORT) has a long history in cancer treatment and became part of the armamentarium of radiation oncologists more than a century ago. The biologic effect of the large dose delivered during surgery is considered to be 2–3 times higher than the same doses delivered with a standard dose/fraction treatment, thus allowing dose escalation with the aim of improving local control, particularly if associated with external beam radiotherapy.

Over recent decades, the development of mobile radiation generating machines, located in shielded operating rooms, made this procedure much easier to perform, obviating the need for patient transferral to the radiotherapy department. Breast cancer, intra-abdominal cancers, soft tissue sarcomas and many other cancer sites can be treated with IORT.

This Special Issue will focus on the most important experiences with this radiotherapy technique at different cancer sites and debate the possible future developments of this radiotherapy modality.





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Message from the Editor-in-Chief

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