

Proton Beam Therapy in Cancer Treatment in USA

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Abstract

The use of proton beam therapy is increasing globally. It seems to offer dosimetric advantages especially in paediatric Central nervous system (CNS) and brain tumours. A short E - survey was conducted to assess the clinical, technical, and educational resources and strategies employed in state of the art Proton Beam Therapy (PBT) centres in USA to determine current status of Proton beam therapy. The study also aimed at finding out which PBT skills are in demand as well as what improvements are needed to ensure efficient treatment planning, delivery and dosimetry. The study resulted in identifying areas for future research and development, and in identifying cancers for which PBT is most suitable compared to other modalities to facilitate implementation and use of PBT in clinical setting for cancer treatment.

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Biography

Miss A. Taqaddas has speciality in Radiation oncology, Medical Physics and Radiation Protection. She has degrees in two disciplines i.e. Master of Science in Medical Physics and Bachelor of Science (Hons) Therapeutic Radiography from UK. She passed her radiation Protection Supervisor Exam from UK in 2012. She is the first author of a concise book on Volumetric Modulated Arc Therapy. She has presented her research work

in international conferences in Australia, USA and Norway. She also acted as programme chair in ICRM 2014 conference in 2014. She has experience of working in Medical Physics and Radiotherapy departments in UK and Germany. She has experience of carrying out photon and proton Radiation treatment planning, delivery and dosimetry. She also acts as an invited Journal Reviewer for JMIRS.