SFHR3
Outline clinical target volumes

Overview

This standard covers the identification, position and size of the target volume to be treated. It is also concerned with the identification and position of all critical organs.

Users of this standard will need to ensure that practice reflects up to date information and policies.

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Performance criteria

You must be able to:

- P1 collate and check relevant clinical information, appropriate patient measurements, data relating to treatment parameters and images for validity, consistency and completeness
- P2 use clinical data to inform the definition of radiation target volume
- P3 define relevant structures to facilitate the planning process
- P4 use the relevant imaging information to define the target volumes taking into account any other relevant clinical information according to local protocols and national guidelines
- P5 transfer and/or collate data in the treatment planning system to enable optimal isodose plan design
- P6 review any deviations from the protocols and take appropriate action is taken
- P7 recognise where help/advice is required, and seek this from appropriate sources

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Knowledge and understanding

You need to know and understand:

K1 local protocols for data entry, utilisation, recording and transfer
K2 the importance of recognising, and not working beyond, the limitations of your own knowledge and experience
K3 relevant anatomy and pathology e.g. regional, cross-sectional and functional
K4 concurrent and malignant disease process and the potential impact on physiological systems
K5 tissue tolerances and acceptable dose parameters
K6 data required for treatment planning
K7 transposition of patient data for example:
- K7.1 magnification
- K7.2 target volumes
- K7.3 sensitive structures
- K7.4 dose modifying structures

K8 efficiency and efficacy of local treatment and planning protocols
K9 relevant imaging procedures and interpretation of images
K10 image manipulation, processing, interpretation and virtual simulation
K11 volume definition (various methods including - International Commission on Radiation Units and Measurements [ICRU] 50 Prescribing, recording and reporting Photon Beam Therapy 1993 and International Commission on Radiation Therapy [Supplement to ICRU 50] 1999)
K12 limits imposed by treatment models used
K13 outlining devices for example:
- K13.1 equipment
- K13.2 software
- K13.3 hardware

K14 critical appraisal of the target volume against relevant planning/patient information
K15 examination procedures and patient management
K16 effects and minimisation of patient and organ movement
K17 the roles and responsibilities of other team members

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Additional Information

External links

This standard links with the following dimension within the NHS Knowledge and Skills Framework (October 2004):

Dimension: HWB7 Interventions and treatments

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