The clinical impact of PET/CT in radiation therapy

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New advanced Radiotherapy techniques demand more precise tumour delineation and correct staging. This can be achieved by FDG-PET/CT, where information about the extent of vital tumour tissue can be obtained. FDG-PET/CT is useful for a list of malignant diseases and the clinical indications will be discussed.

It is of great importance that the patient can cooperate to perform the scan in the same position as in the following treatment. Practical issues will also be discussed including the technical aspects of the CT part of the PET/CT scan, use of immobilization devices, lap laser systems etc.

Tumour delineation methods including change of gross tumour volume definition and decrease of inter- and intraobserver variability will be mentioned as well as logistics concerning the clinical set-up.

References

