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Conclusions: Both VMAT and HT provide high quality conformal plans for localized prostate cancer. Significant differences were noted in a number of dose-volume parameters, but they were not so large. HT plans provided more homogeneous dose distribution in PTV and lower rectum doses, whereas VMAT yielded more conformable plans, lower bladder

Conclusions

In the treatment of stage IIB-IIIB NSCLC patierdoses, and shorter treatment delivery time with smaller MU. strated that the VMAT plan achieved optimal conformal and homogeneous dose distribution in terms of PTV. TOMO plan showed a slight advantage in reducing the sparing of the total normal lung, mainly in V_{20} and V_{30} but at the cost that more low-dose area spread to the normal lung and more radiation doses to the heart. These findings may be of value in selecting the optimal modality of radiotherapy for the individual patient with LA-NSCLC. Although all three different IMRT plans were clinically acceptable. VMAT seems to be the optimal treatment planning technique in the dosimetric comparison with TOMO and IMRT as to comprehensive evaluation.

CONCLUSION

good results of HT planning for coverag and homogeneity of these plans, also the TPS for calculation of VMAT and IMRT achieved acceptable results for a double simultaneous integrated boost concept for dose escalation in head and neck cancer delivered by IMRT or VMAT. The tested TPS and IMRT-techniques are allowed for the ESCALOX trial.

HT and VMAT in complex adjuvant breast irradiation The analysis of the quality parameters for allow a good coverage of target volumes with an revealed that the tested TPS can produc acceptable acute tolerance. A longer follow-up is needed plan quality for this dose escalation trial. D to assess the impact of low doses to healthy tissues.

In a dosimetric comparison for SBBC, HT provided the most favorable dose sparing of OARs and can be considered for patients having a higher risk of normal tissue morbidity. However, HT may increase patient discomfort and treatment uncertainty because of its longer BOT. VMAT enabled a shorter BOT with acceptable doses to OARs and a better CI than IMRT and FIE Therefore, VMAT can

