

AbstractID: 1522 Title: Lower Anterior Neck Field Matching with Corvus IMRT Planning System

When making plans for H&N IMRT cases, a problem often encountered is how to match the upper neck IMRT fields with a traditional open lower anterior neck field (LAN). Sometimes, there is difficulty with this and a solution has been to treat the upper and lower necks exclusively with IMRT, eliminating the LAN field altogether. Faced with the same problem with the Corvus IMRT planning system, a solution was found to match an LAN field to the upper IMRT fields. The Corvus IMRT planning system is IMRT only and unable to create forward planned 3D or 2D fields such as an LAN. Using the commissioning or physics mode of the planning system, the LAN field can be created for a particular patient and added to the plan. The upper IMRT fields then have to be matched to the LAN field. The matching of the fields are very dependent on the contours and constraints for the upper IMRT plan. Slight variations in the intensity maps of the upper IMRT fields near the matchline can produce hot or cold spots in the final plan when matched to the LAN. Optimal constraints and contouring for the upper IMRT plan have been found to produce the best match with the LAN field and have been repeated successfully on many patients. A template has been made to make the process easier for all plans.