AbstractID:9657Title :Analysisof bestfittingTomo treatmentpla nning parametersfor Prostate,lung,breast,bra in,liver ,He ad&Neck, Breast,Pelvisand Pancreaslesions from our3y earsexperienc epla nningfornearly 1000p atients.

Purpose:

Best fittingTo motherapy treatmentpl anningp arameters for ninedif ferentlesi on sites.

Materials & Method:

Tomotherapy treatment planningand deliveryd epends onparameter sth atarenot necessari lyfa miliartoa radiotherapyph ysicist.I tis im portantfor plann erstofamiliar izethemselv eswi ththeseparam etersandtheiri mpact onthetim erequ iredfor delivery:

51 Prostatepl ans,2 68lungs, 197Brain, 21Liver, 38Head&Neck, 46B reast, 51Pelvisan d59Pancre as plansfor parameters likePitch, Gantryperiod,treat menttime,deliv erymodulation,totaldo se,c alculatedtre atmentl ength andslic ewid th wereanalyzedfort hebestfit.

Results:

For P rostate average modulation delivery factor of 1.8 with aver aged elivered dose of 51.5 3Gy and average treatment time of 342.4 second swas us ed. A veragenum bersof fractions were 27. For Lunga verage dose of 5 0.70 Gy with average modulation of 1.726. A veragetr eatment time was 338.6 second sanda veragenumbers of fractions was 24. For Brainlesion neaverage dose of 28.42 Gyw ith averagem odulation of 1.71 was us ed. Averagetreatment time was 401.45 second s. A veragenum bersoffractions was 11. For liverlesions a veragedose of 28.42 Gy was used. Average modulation factor of 1.71 and a verage treatment time of 401.45 second s. A veragenumbers of fraction s was 11. For Head & Necka veragedose of 36.08 Gywith average modulation factor of 1.81 was used. Average treatment ime was 420.64 seconds. A verage numbersoffraction s was 20. For B reasta verage dose of 41. 44 Gy with average modulation of 1.97. Average treatment time of 429.27 seconds with a verage numbersof fractions of 24. For Pelv is a verage dose of 38.8 Gywith average modulation of 1.95. A verage treatment time was 344.91 seconds. A veragenumbersof ractions was 19. For Pancreasa verage dose of 46.8 Gywith average modulation of 1.78. Average modulation of 24.