Supplemental material

 *Target volume modifications and doses to organs at risk*

*The distribution of manual modifications of CTV and PTV and doses to OARs exceeding constraints in different centres. Dose are analysed for the brainstem, chiasm, optic nerves, posterior and anterior eyes, thus doses to the brain, pituitary gland, and structures on the lower neck are not included. CTV: Clinical target volume, PTV: Planning target volume, NE: Not evaluated.*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Center 1n=51 (100) | Center 2n=36 (100) | Center 3n=45 (100) | Center 4n=44 (100) | Center 5n=8 (100) | Totaln=184 (100) |
| *Target volume modification*TotalCTVPTVCTV+PTVNE | 28 (55)2 (4)22 (43)1 (2)3 (6) | 31 (86)8 (22)19 (53)2 (5.5)2 (5.5) | 16 (36)8 (18)5 (1)0 (0)3 (7) | 16 (36)7 (16)7 (16)2 (5)0 (0) | 1 (13)0 (0)1 (13)0 (0)3 (3) | 92 (50)25 (14)54 (29)5 (3)11 (6) |
| *OAR dose constraint violation*TotalBrainstemChiasmOptic nerveEye BackEye Front | 46 (90) 4 (8)19 (37)36 (71)36 (71)41 (80) | 25 (69)0 (0)5 (14)17 (47)23 (64)23 (64) | 29 (64)5 (11)6 (13)19 (43)23 (51)24 (53) | 23 (52)3 (7)4 (9)15 (34)17 (39)17 (39) | 4 (8)0 (0)1 (13)4 (50)4 (50)3 (38) | 127 (69)12 (7)35 (19)91 (49)103 (56)108 (59) |