Hypofractionated prostate 28 fx or 20fx

28fx

70Gy/28fractions prostate, Hypofractionated prostate (Thomas bucy)

PTV done 70 Gy in 28 fractions

Rectum V65<10%, V60<15%, V40<50%

Bladder V65<20%, V60<25%, V40<60%

Fem Heads V40<5%

Contours for prostate done thanks! (similar to david moore, timothy mayworm, alsaffar, timothy Donahue but now I am doing pelvis 25 fx and cone down)

45/25fx Gy to pelvis/ 62.5Gy SIB to prostate PTV then cone down to prostate ptv for 3 fx for total 70Gy/28fx

70Gy/28fractions prostate, Hypofractionated prostate

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PTV done 70 Gy in 28 fractions

Rectum max 105% (max 104-106%), V70<5-12%, (Duke&VIA: V70<10cc), V65<8-15%, (Duke&VIA: V65<10%), V60<15% (V60<10%), V60<10-20%, V53<20%, V50<20-35%, V40<30-40%, V40<50% (Duke&VIA: V40<35%), V35<40% (CHIIP rectum wall V46<50%)

Bladder max 105%, V71<2-10%, (Duke&VIA:  V70<10cc), V65<5-20%, V65<20% (Duke&VIA: V65<15%), V60<10-25%, V60<25%, V61<15%, V55<20%, V50<25%, V50<25-50%, V40<60% (Duke&VIA: V40<35%), V39<50%, V31<50% (CHIIP bladder wall V46<30%)

Fem Heads V40<5%, V40<40-50%, V39<10% (Duke max is 40Gy)

Penile Bulb mean 50Gy (Via V40<50%)

Small bowel  (if no LN, Duke&VIA: V40<1%) if lymph nodes: V45<50-90%, max 48.2-53Gy (.03cc)

Max of total plan hotspot <=107% (max 74.9-75.6Gy <.03cc)

Urethra max hotspot 105%

Ureters low 95% dose

Sigmoid max 50-56Gy, V50Gy<45-60%

Bone Marrow

Bone Marrow

V30Gy <30%

V40Gy <15%

V50Gy < 5%

New PRO journal article

Median 34.2Gy

V20<79%

V10<90%

V40<37%

20fx (for stampede)

Rectum per dr lee

V20 Gy           85%

V30 Gy           57%

V40 Gy           38%

V50 Gy           22%

V60Gy            <0.01%

(CHIIP rectum wall V46<50%)

(CHIIP bladder wall V46<30%)

Bowel max 44Gy

Univ Chicago 20fx approach

|  |  |  |
| --- | --- | --- |
| Target or Tissue (priority) | Parameter | Target |
| PTV (++++) | V100% (%) | ≥ 98% |
|  | V95% (%) | ≥ 99% |
|  | V105% | ≤ 10% |
|  | V110% | ≤ 5% |
|  | Max dose to voxel | ≤ 115% |
| Rectum (+++) | V54Gy (%) | ≤ 10% |
|  | V50Gy (%) | ≤ 20% |
|  | V30Gy (%) | ≤ 40% |
| Bladder (++) | V54Gy | ≤ 15% |
|  | V50Gy | ≤ 30% |
|  | V30Gy (%) | ≤ 60% |
| Femoral heads (+) | V38Gy (%) | ≤ 10% |
| Penile bulb (++) | V38Gy | ≤ 50% |