Prostate sbrt

Pace-B 7.25x5

Stampede 6Gy x 6

Hannan, Timmerman 2016. 9x5 to 10x5 (47.5Gy/5fx severe toxicity)

Prostate size 52cc, <60cc, AUA <15, no prior TURP

95% of ptv (3mm of gtv)

Tissue heterogeneity correction

Rectal Anterior wall <105%

Rectum 3cc of lateral wall 90% of prescription dose

rectal posterior wall max <45%

rectum nrg gu005: prostate volume <100cc, every other day 40hrs, 5mm, 3mm posteriorly

rectum dmax 38.06Gy, 34.4Gy<3cc, 32.63Gy<10%, 29Gy<d20%, 18.13Gy<d50%

bladder dmax 38.06Gy, 18.12Gy<d10%

urethra max <38.78Gy

Bladder wall outer 5mm <105% of prescription dose

Bladder wall 18.3Gy <10cc

Prostate urethra <105%

Steroids prior to each treatment 4mg dexamethasone & Flomax

Musunuru et al 2016

8Gy x 5

99% ctv, 95% dose to 99% ptv

Max 105% total body

Bladder 80% dose<15%

31.8Gy<15%

Rectum V28<20%, V28<40%, 70% dose<20%

Rectum 80% dose<15%, 80% < 33%

Penile bulb 50%<90%, V20<90%

Hypo-FLAME study

Maybe 7.25x5 for whole prostate , nodule can go to 7-8x5

Seminal vesicles 30Gy/5fx

Rectum

38Gy<1cc

35Gy < 1-2cc

32Gy<15%

28Gy<20%

40Gy .035cc

PRV rectum max 42Gy<.035cc

Bladder

42Gy<1cc

37Gy<5cc

32Gy<15%

28Gy<20%

Penile bulb 20Gy<90%

Femoral head/neck 28Gy<5%

Small bowel 19.5Gy<5cc

Small bowel 35Gy max .035cc (but I would prefer lower at 25Gy max)

SBRT PACE-B

Over 1-2 weeks

Rectum

18.1Gy<50%

29Gy<20%

36Gy <1cc

Bladder

18.1Gy<40%

37Gy<10cc

Prostate urethra 44Gy<20%

Neurovascular bundle 38Gy<50% (not used later)

Femoral head 14.5Gy<5%

Penile bulb 29.5Gy< 50%

Testicular blocking structure

Bowel (all bowel or at least small bowel)

18.1Gy<5cc

30Gy<1cc

Max 26-32Gy

Ureters 95% max dose

Cauda max 25Gy

Colon 28.5Gy<20cc, max prv <105%