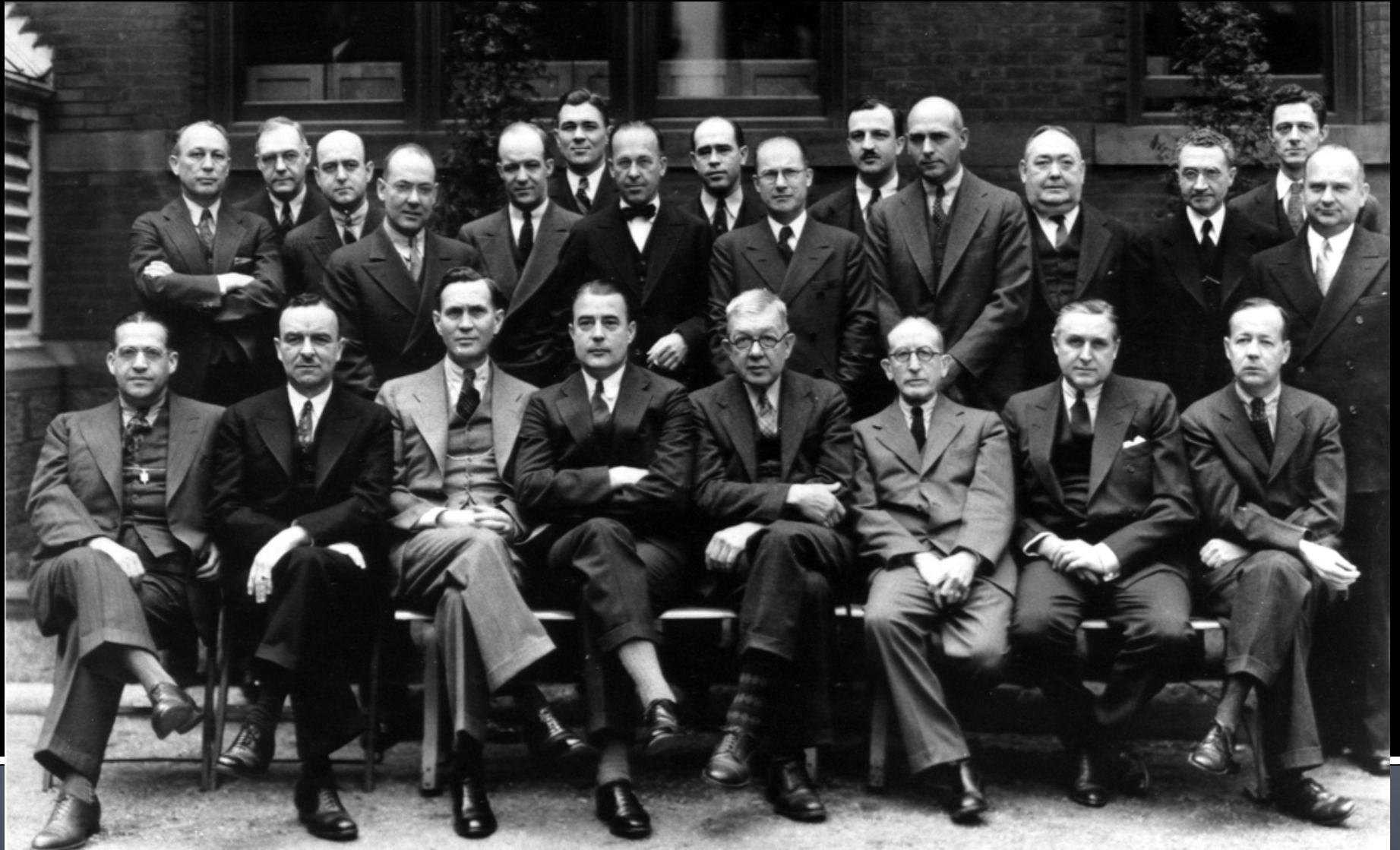


Permanent Seeds Are the Future of Brachytherapy

Peter Grimm, DO
**Prostate Cancer Center of
Seattle**



HDR Leaders

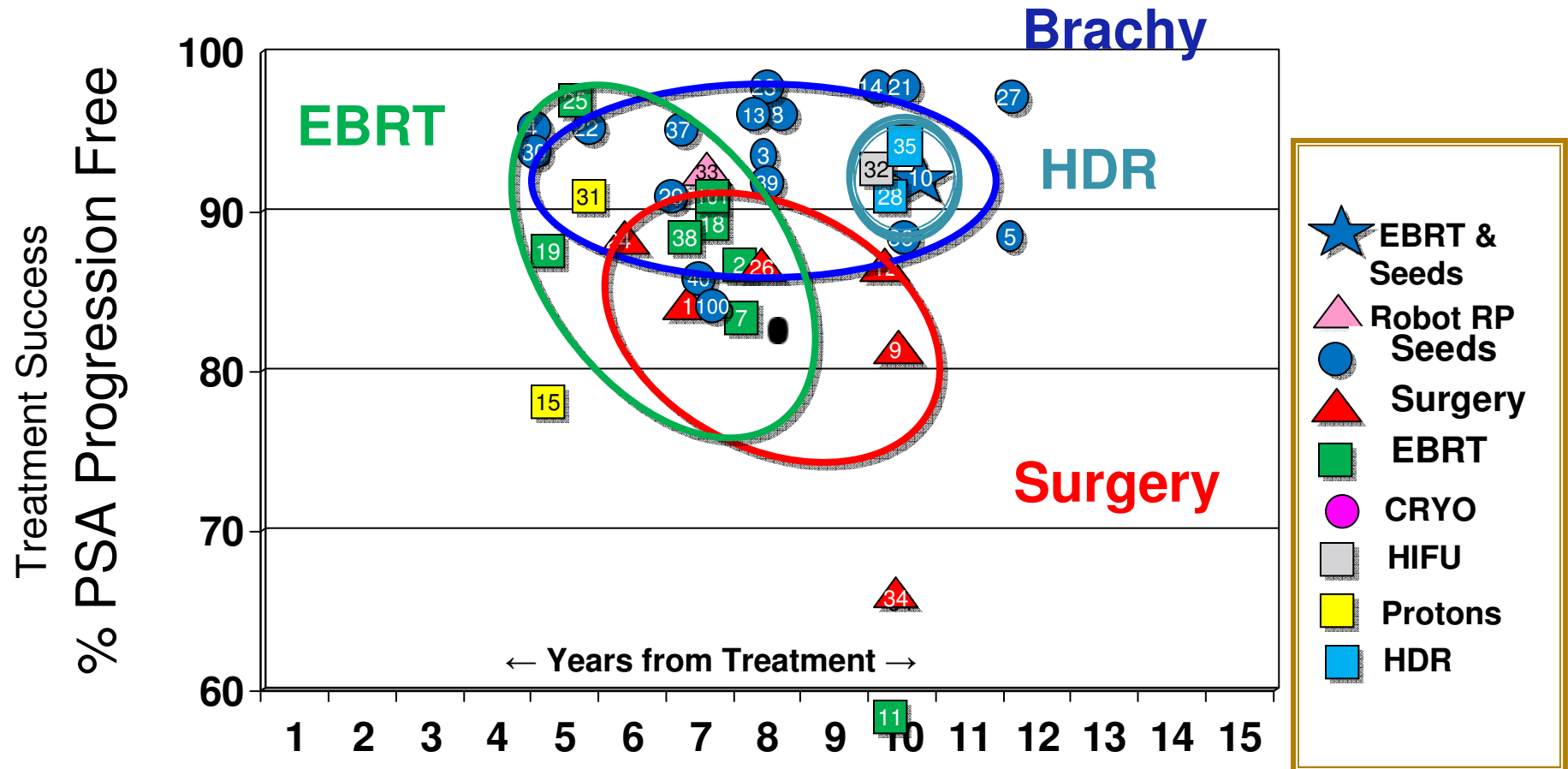




Cancer Control

LOW RISK RESULTS

Weighted



- Prostate Cancer Results Study Group
- Numbers within symbols refer to references

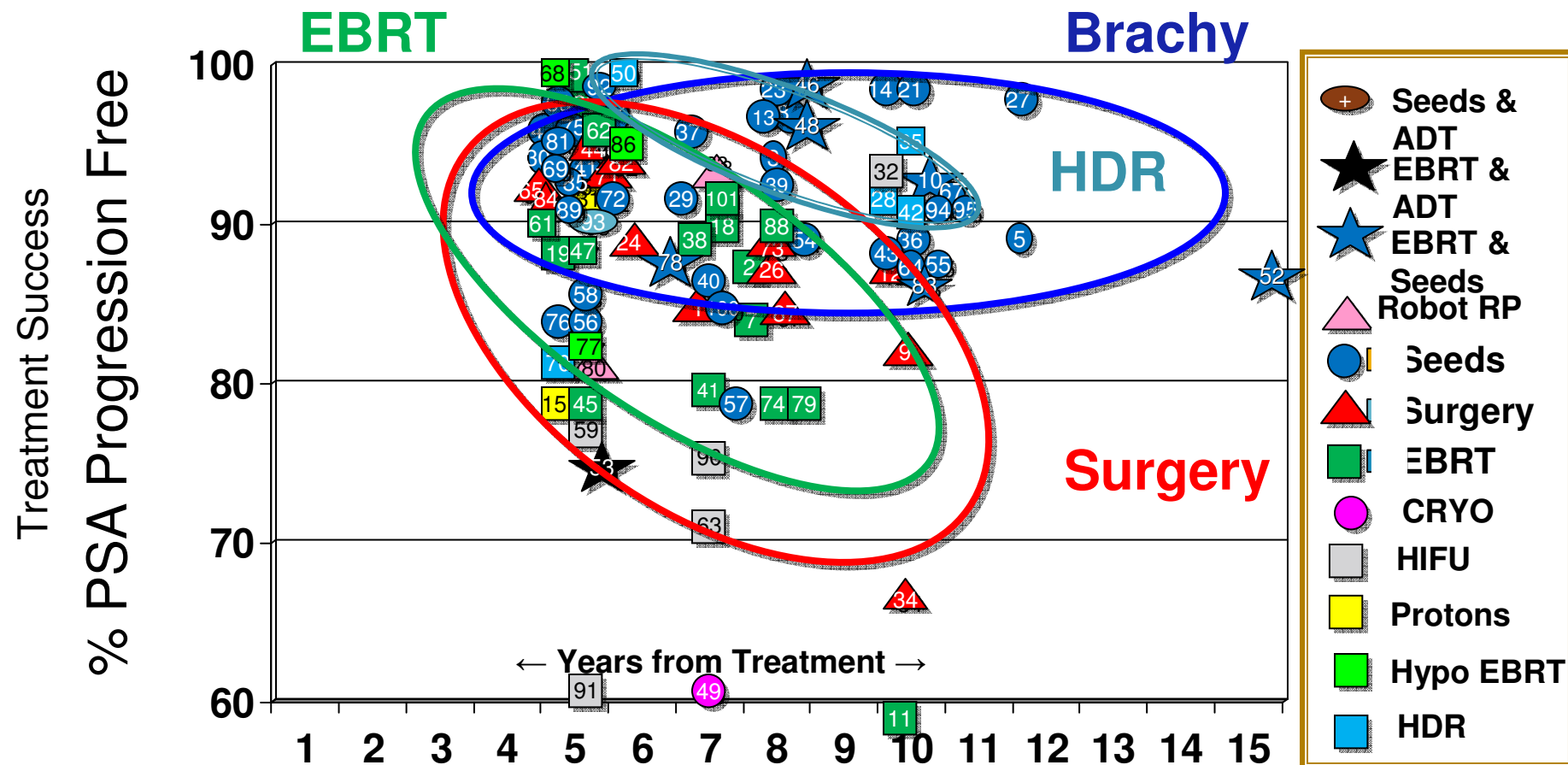
4/11/2012

BJU Int, 2012, Vol. 109(Supp. 1)22-29 Prostate Cancer Center of Seattle

LOW RISK RESULTS

>40 months follow-up or less than 100 patients

Weighted



- Prostate Cancer Results Study Group
- Numbers within symbols refer to references

4/11/2012

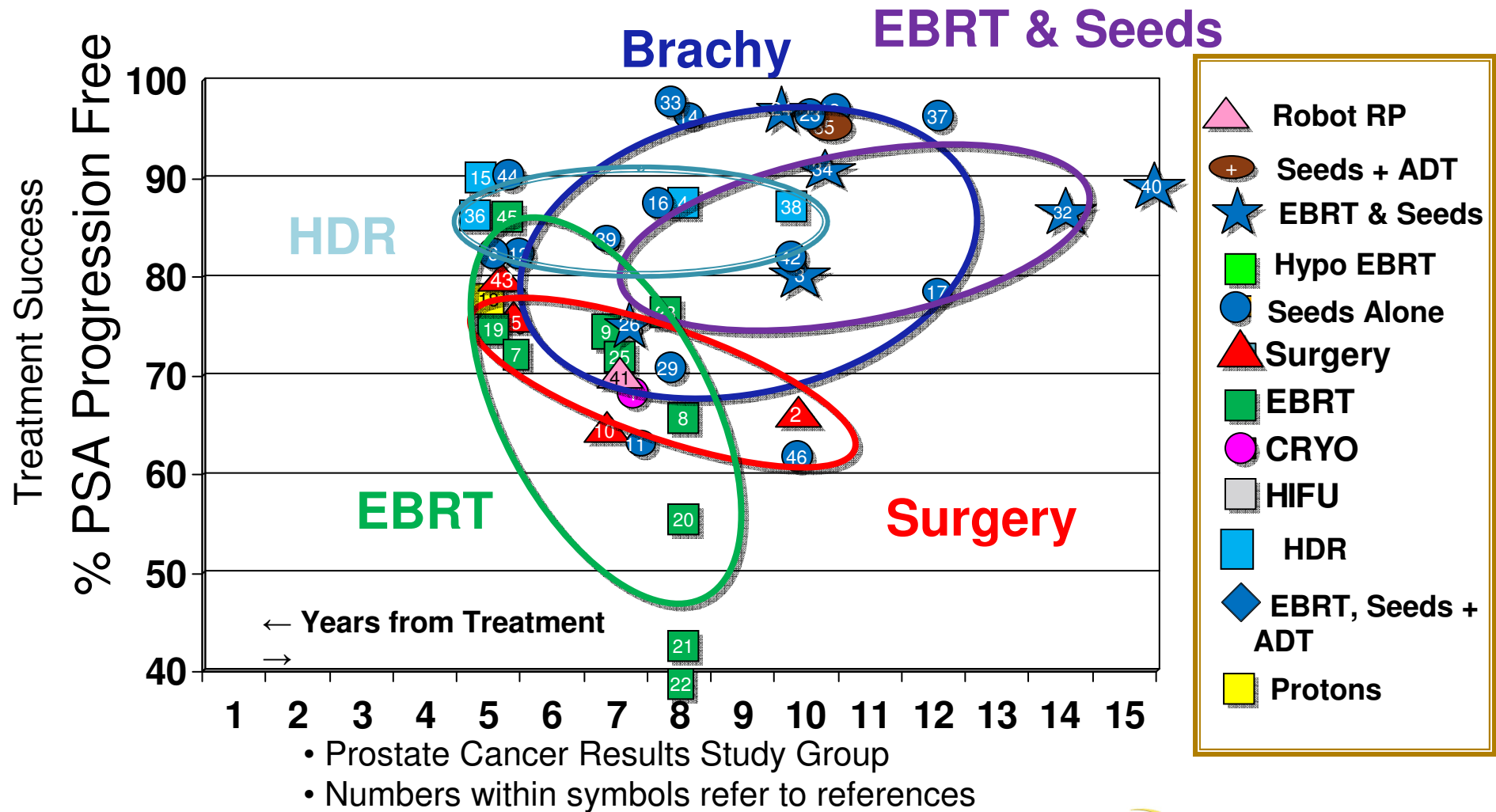
BJU Int, 2012, Vol. 109(Supp 1)22-29

Prostate Cancer Center of Seattle

studymanager™ 7

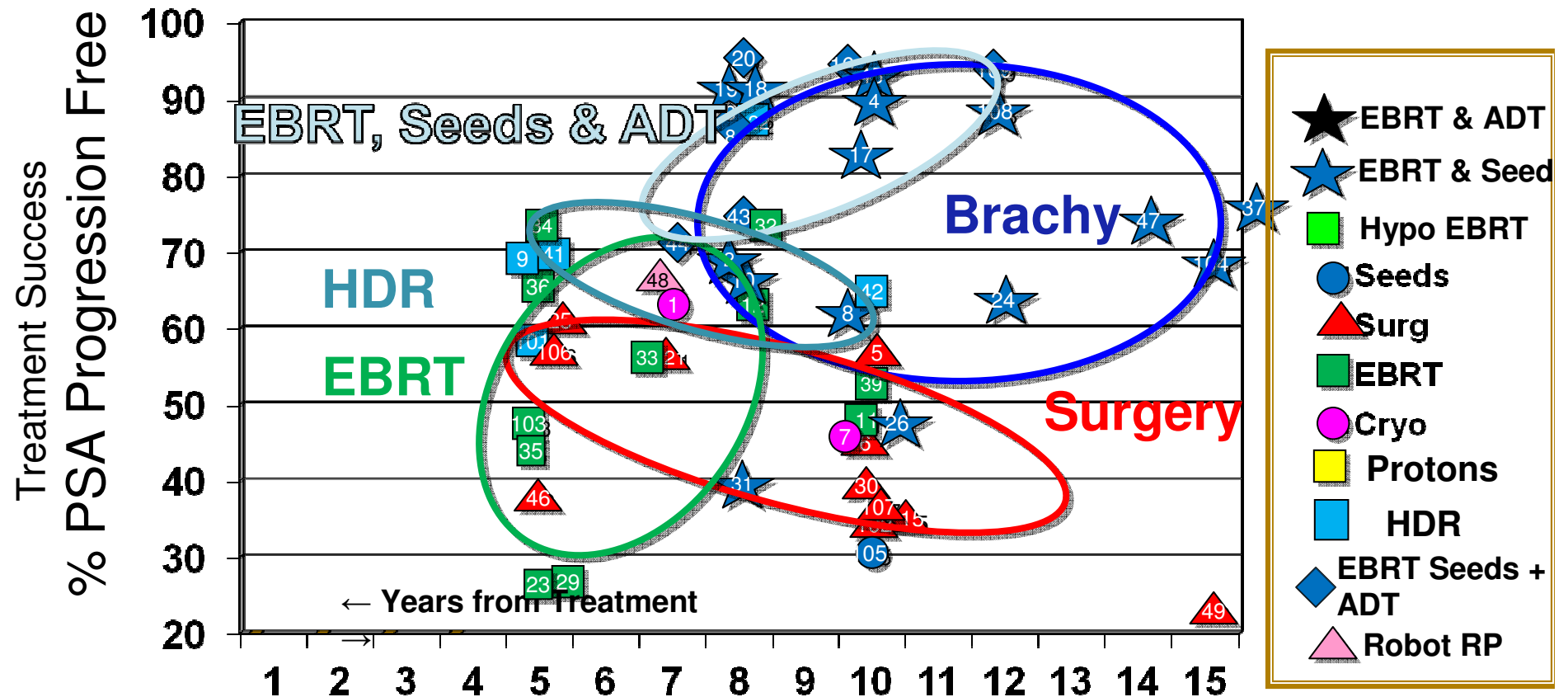
INTERMEDIATE RISK RESULTS

Weighted



HIGH RISK RESULTS

Weighted



- Prostate Cancer Results Study Group
- Numbers within symbols refer to references

COST and Quality of Life



HDR

Permanent Seeds
[studymanager](https://www.studymanager.com)[™]

Cost and Quality of Life

COST

Brachy	\$28,606
RP	\$28,348
Active Surveillance	\$30,422
IMRT	\$37,808
Protons	\$53,828

QUALITY ADJ LIFE YEARS

Active Surveillance	0.70
Brachytherapy	0.0
Protons	- 0.13
RP	- 0.29
IMRT	-0.88

J Hayes Dana Farber/Harvard Study ASTRO Abstract 2011

4/11/2012

Convenience

Single Outpatient Treatment

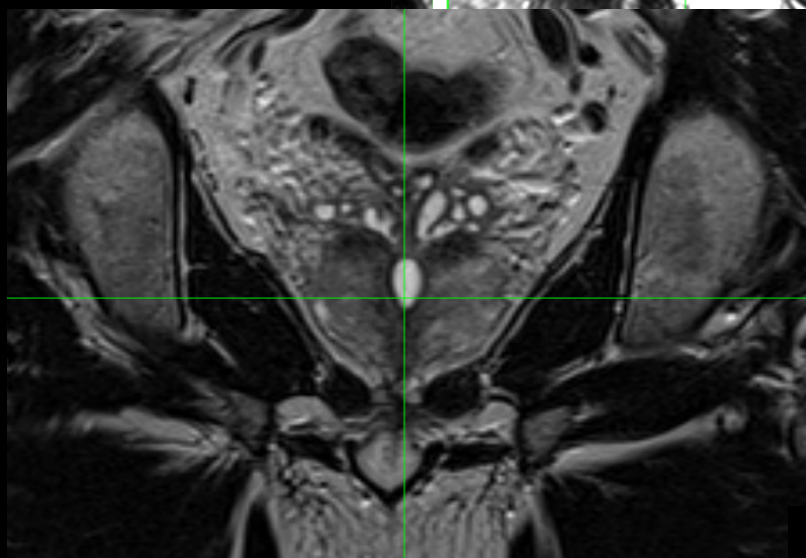
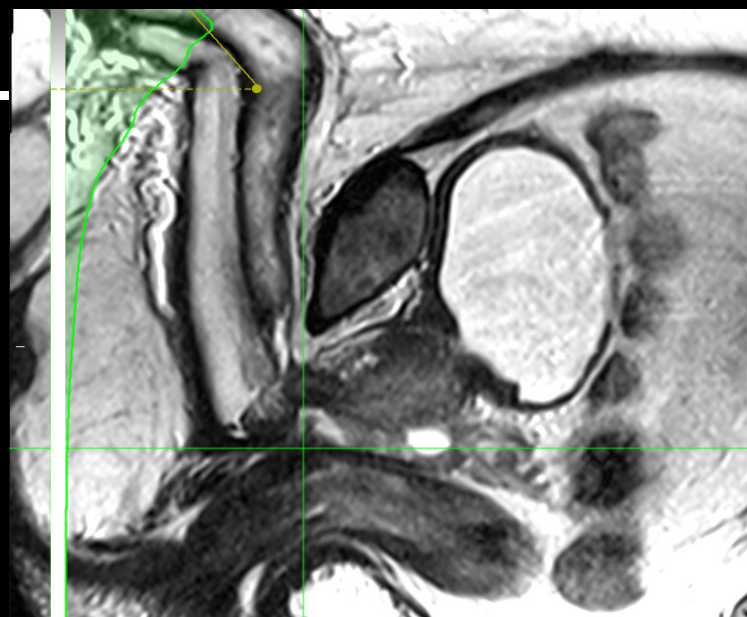
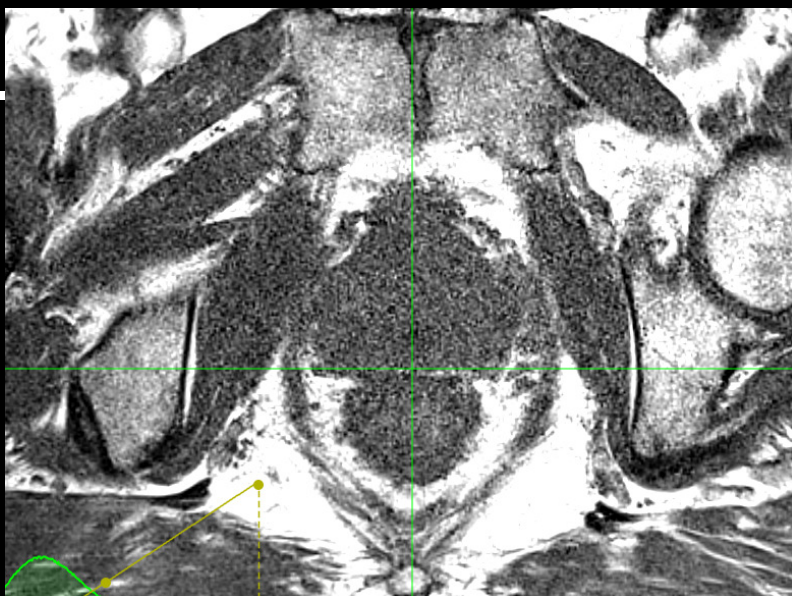
Why Permanent Seeds?



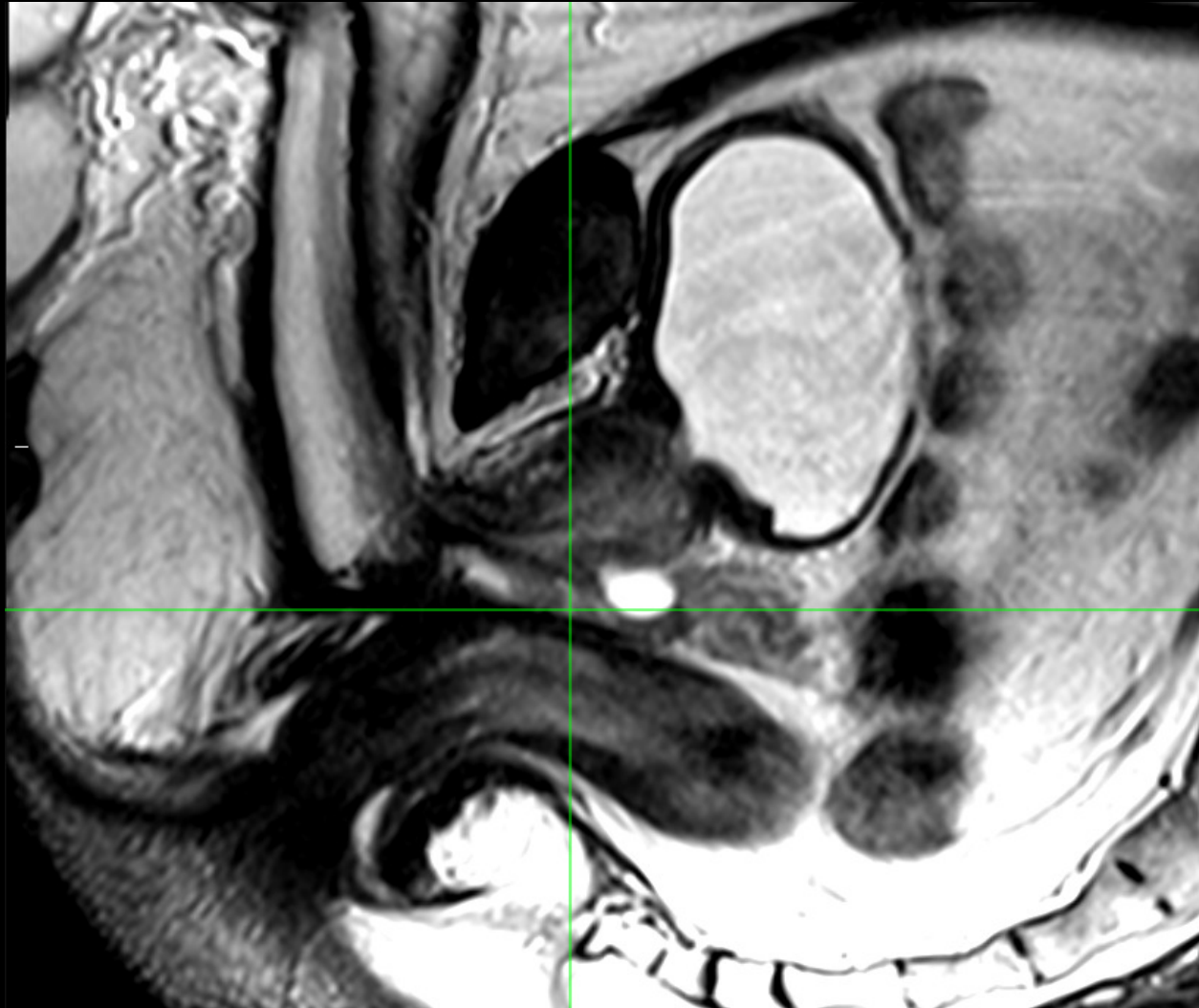
- Technology
 - MRI contouring and Planning
 - MRI based intraoperative analysis
 - MRI based post operative analysis

The Future Jim



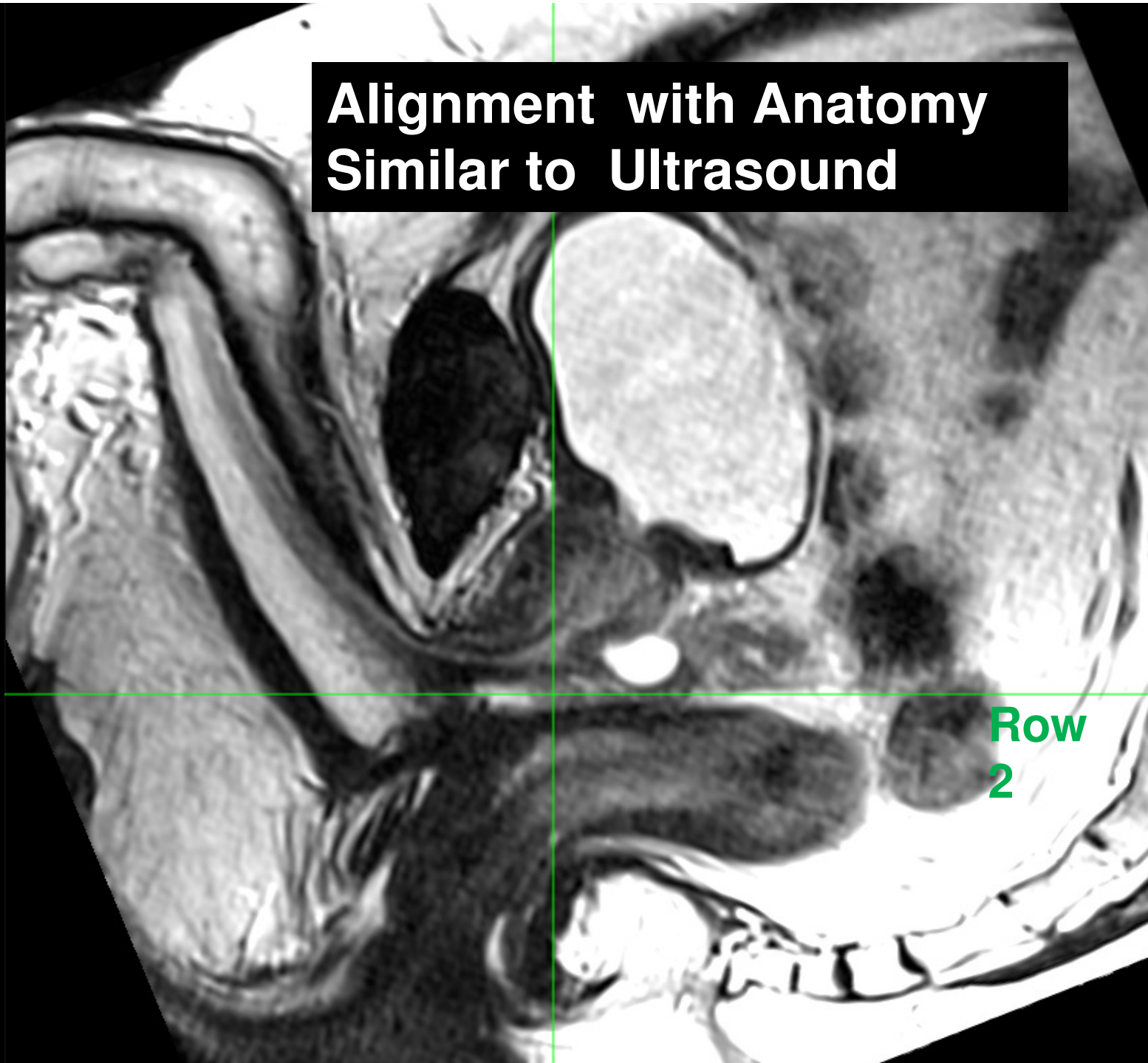


Previous Problem with Alignment

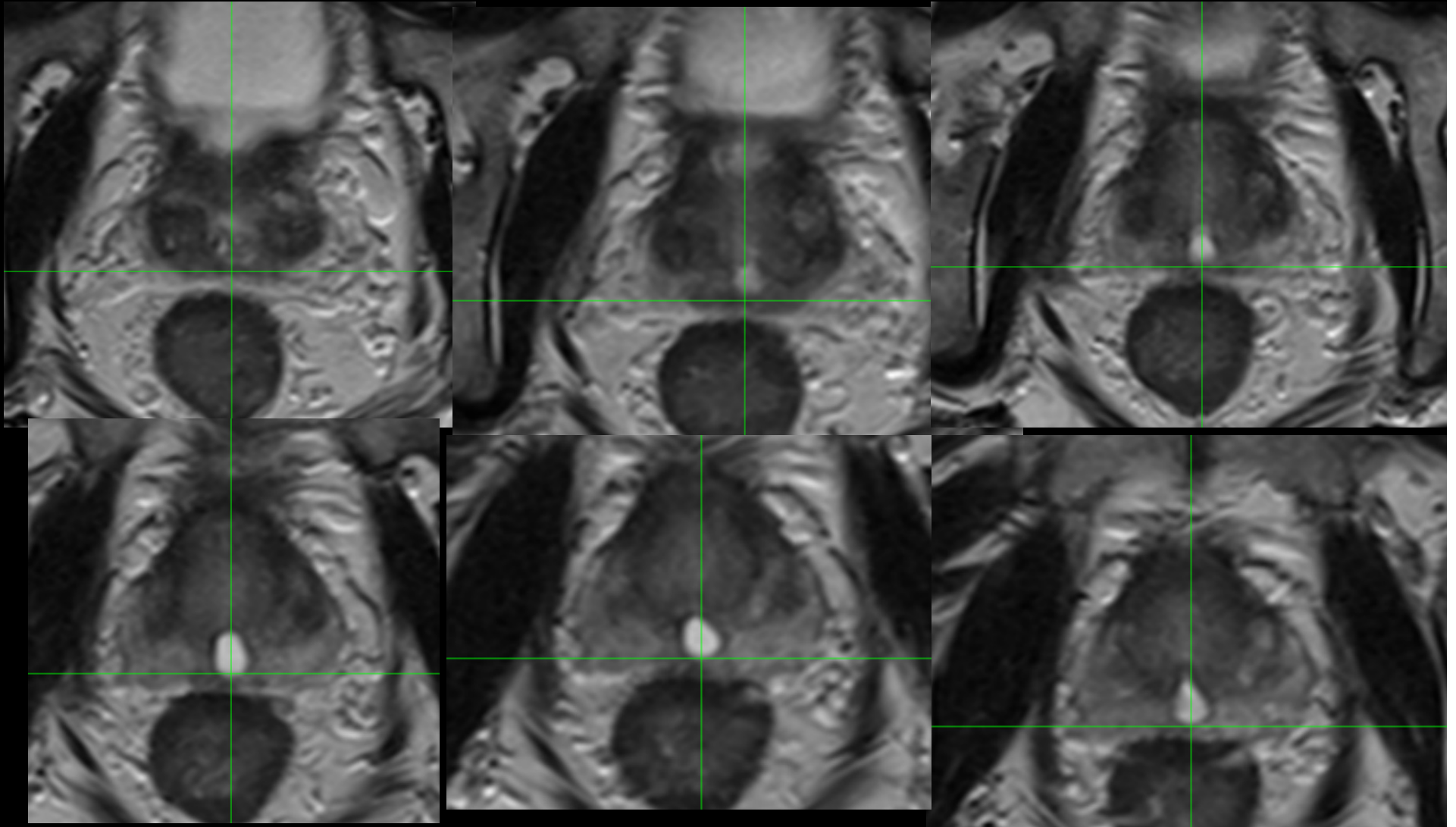


**Alignment with Anatomy
Similar to Ultrasound**

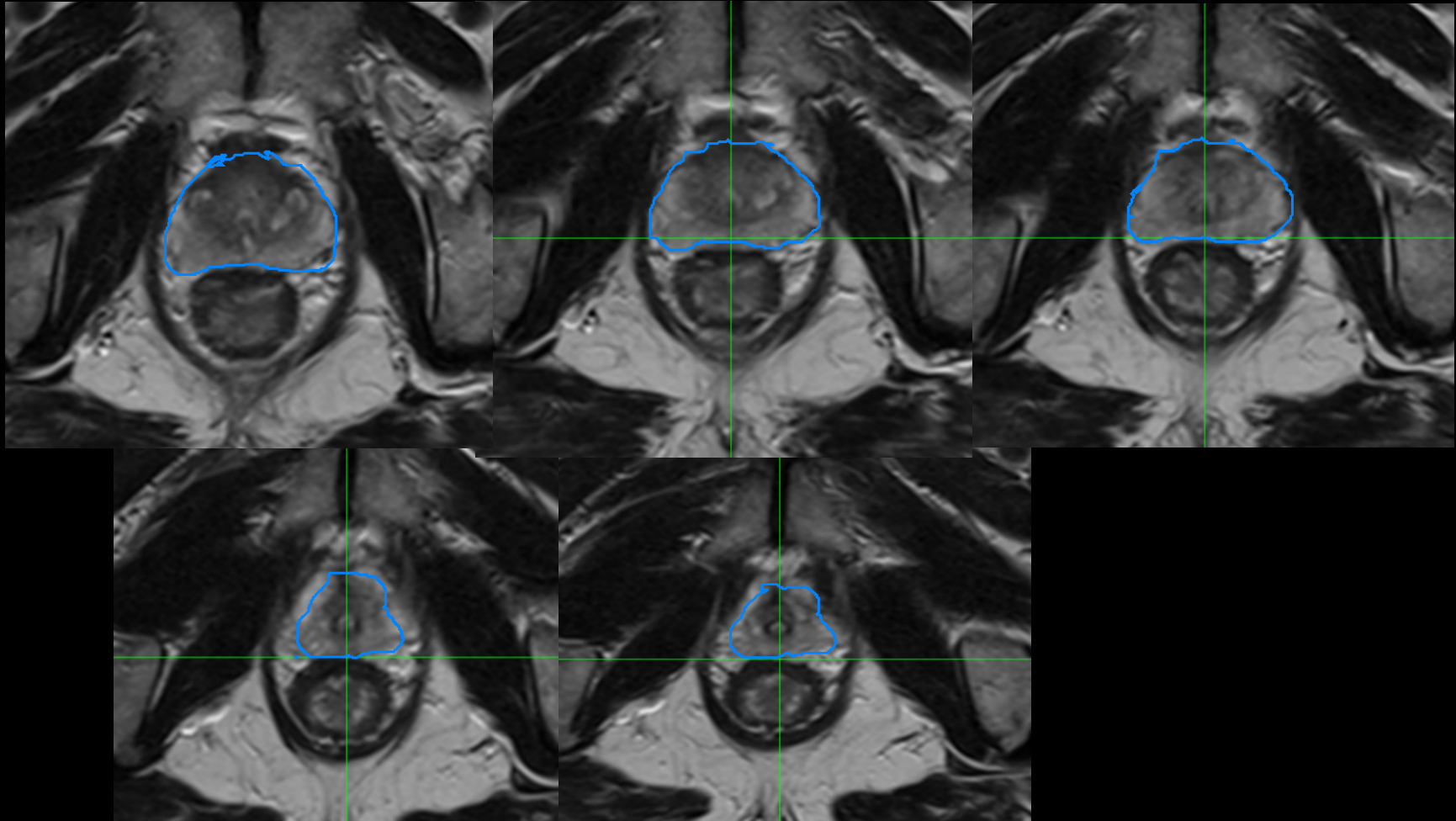
**Row
2**



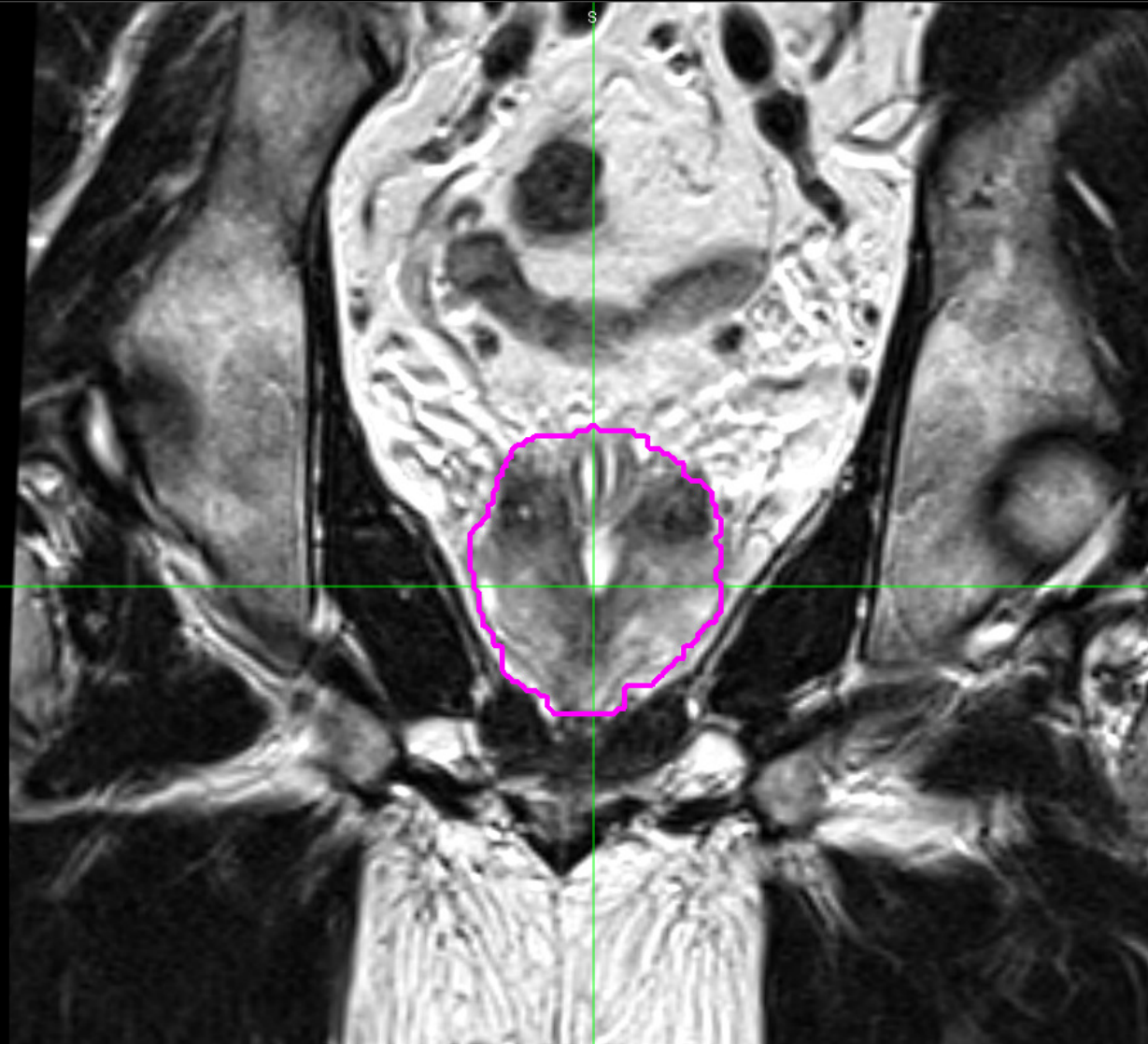
Check Alignment in Transverse



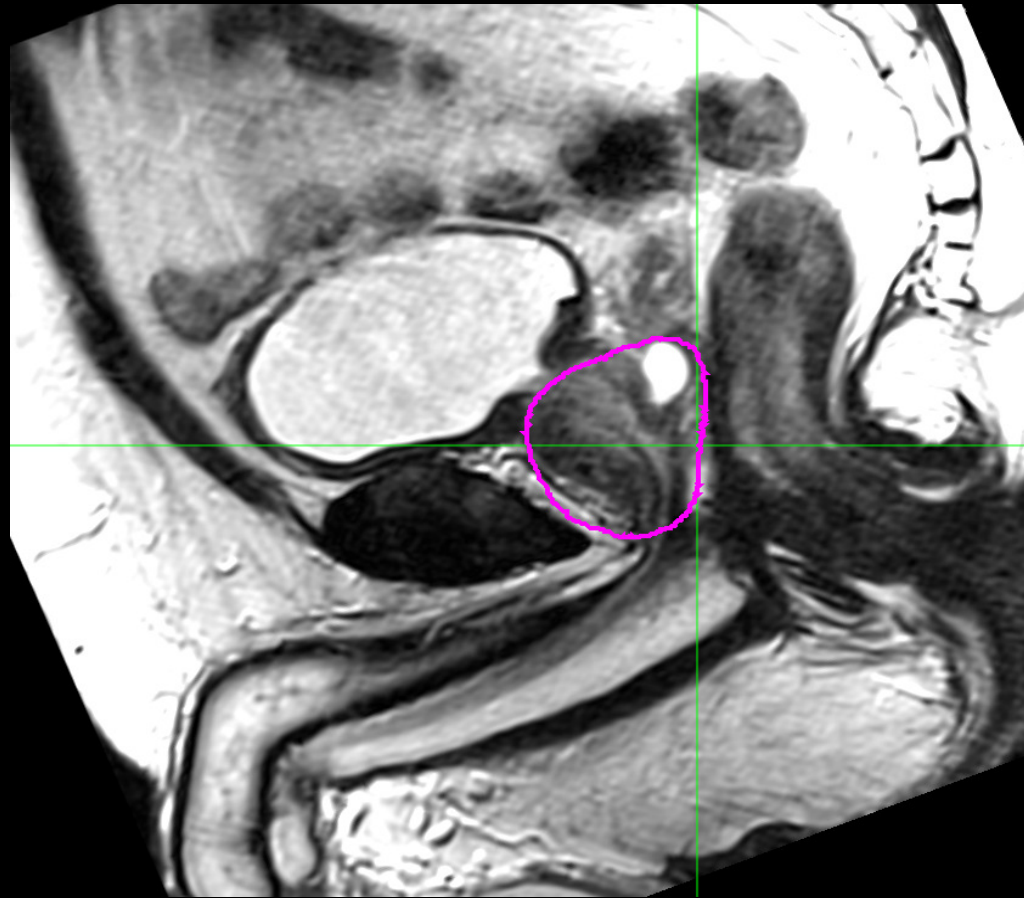
Contour Prostate



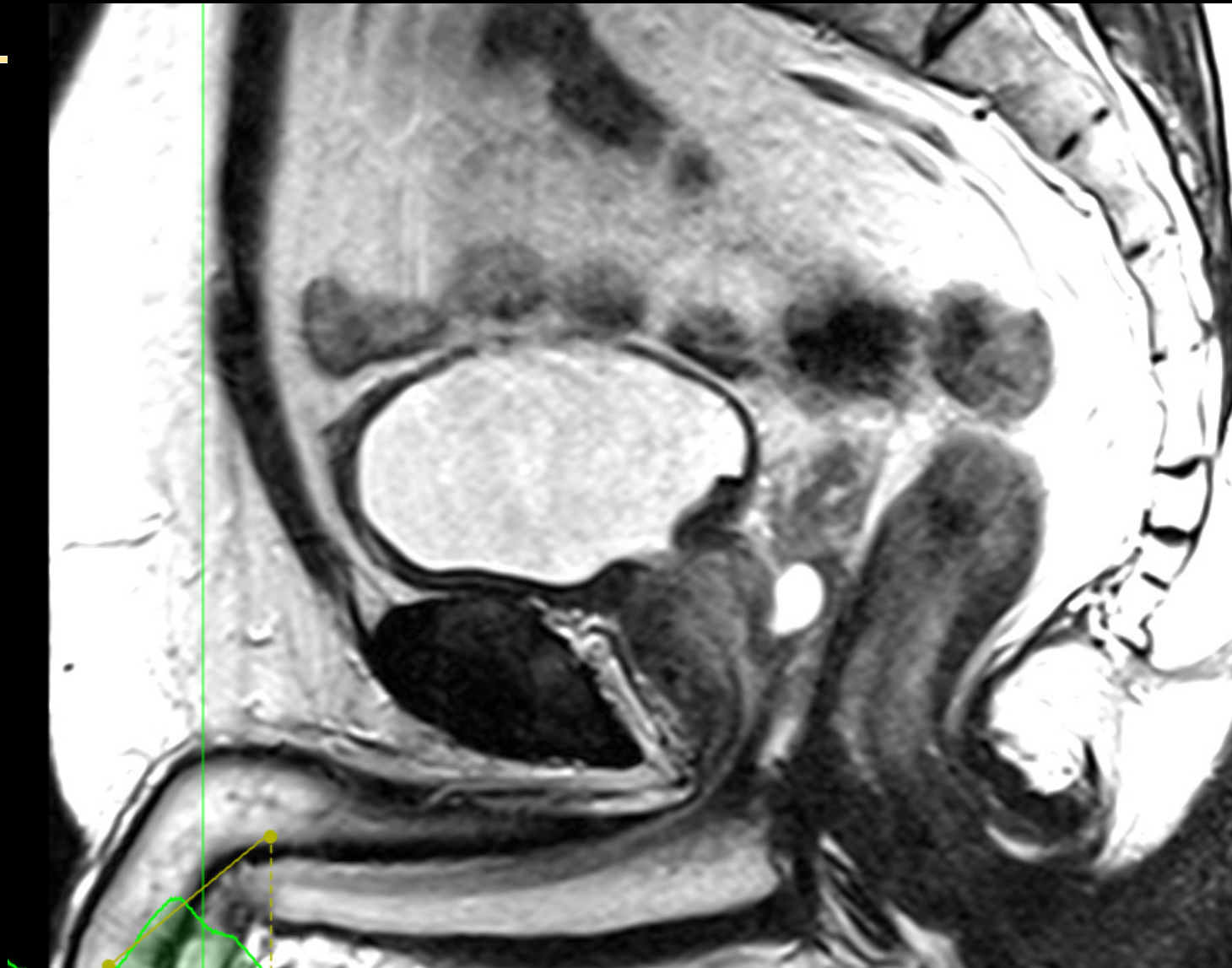
Adjust Contour on Coronal



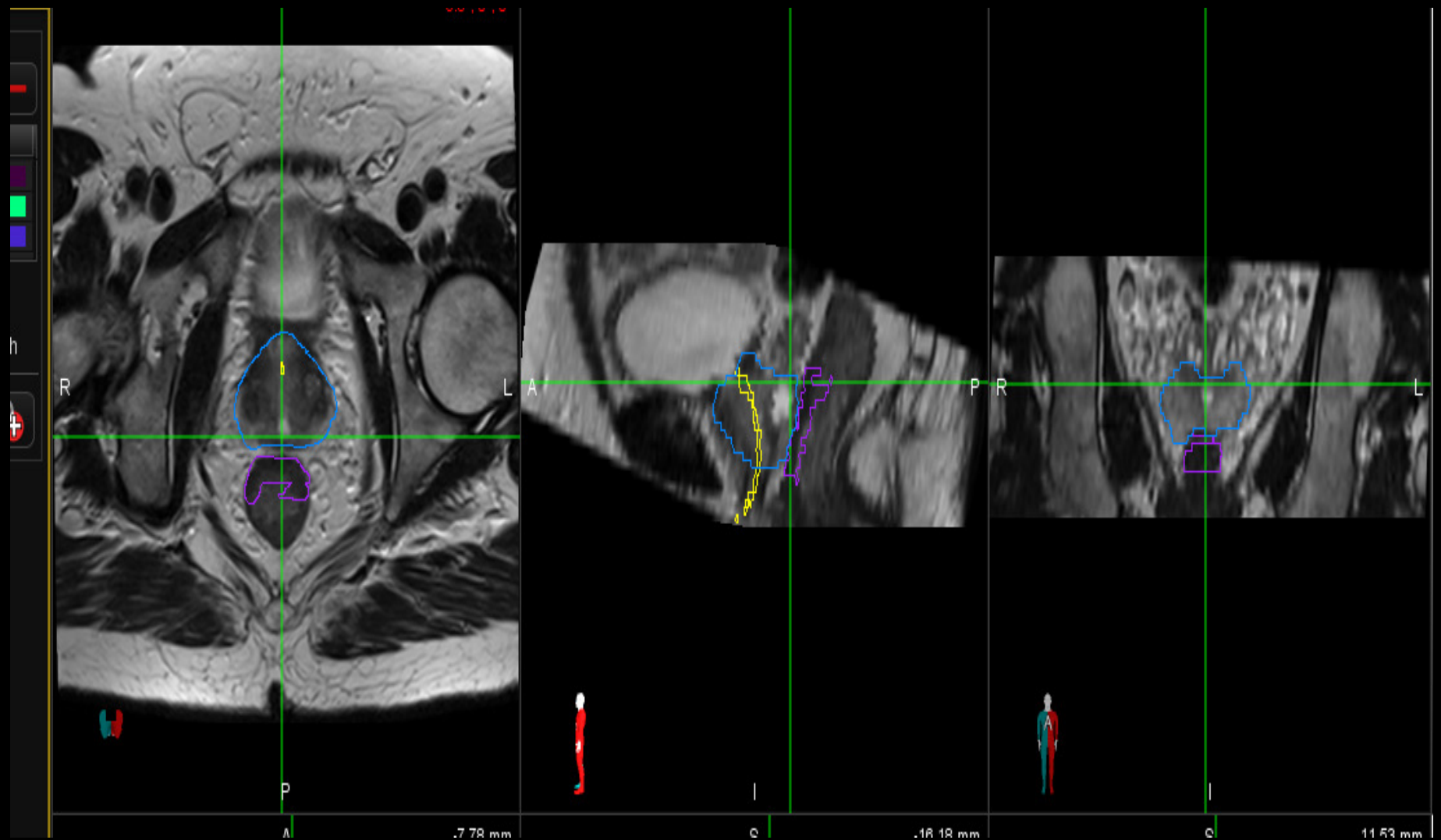
Adjust Contour on Sagittal



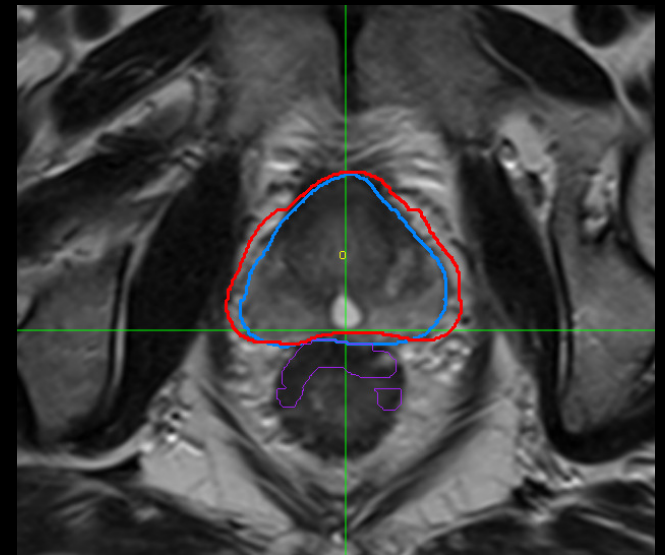
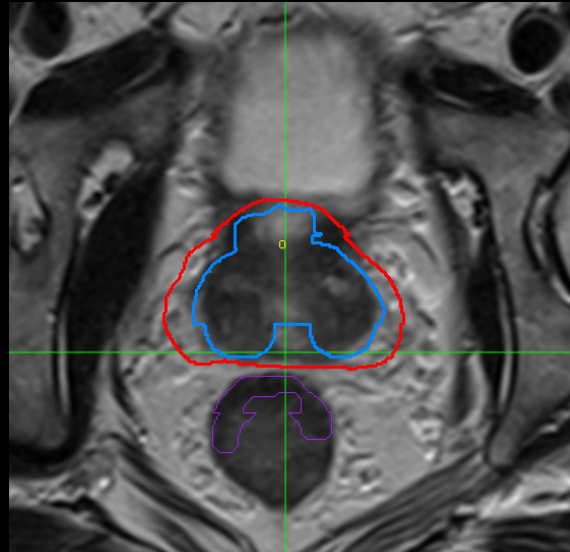
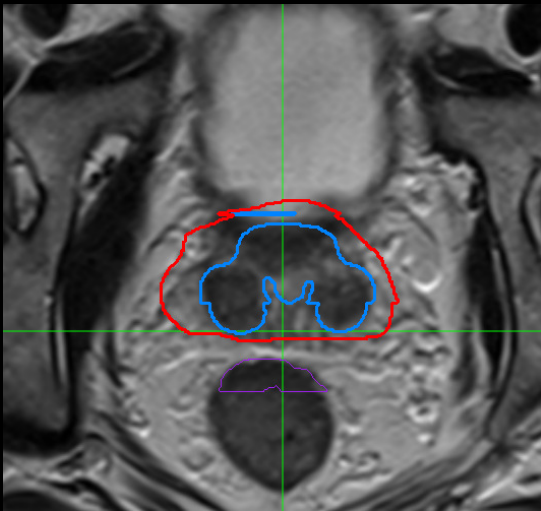
Identify/Contour Urethra in Sagittal

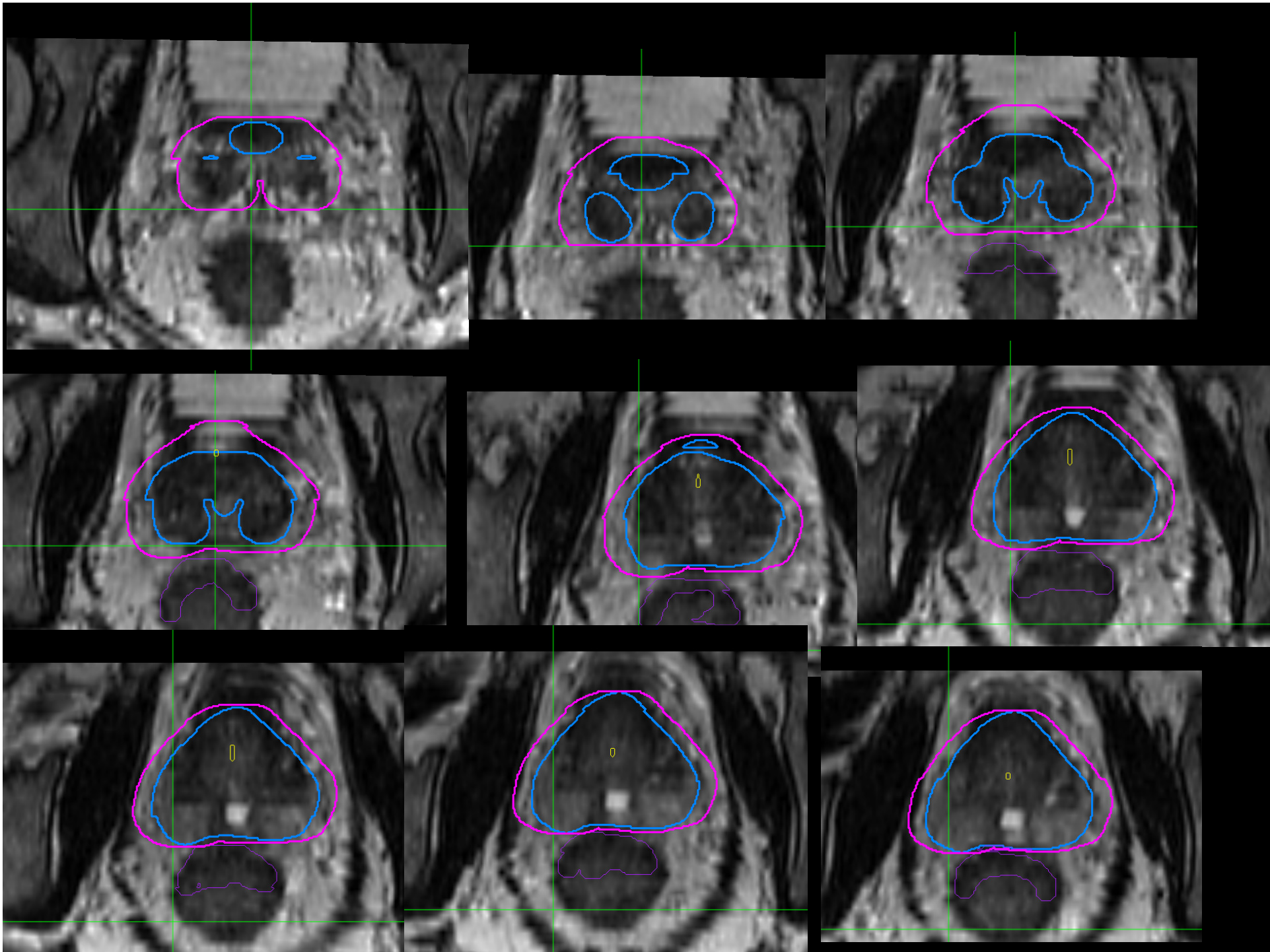


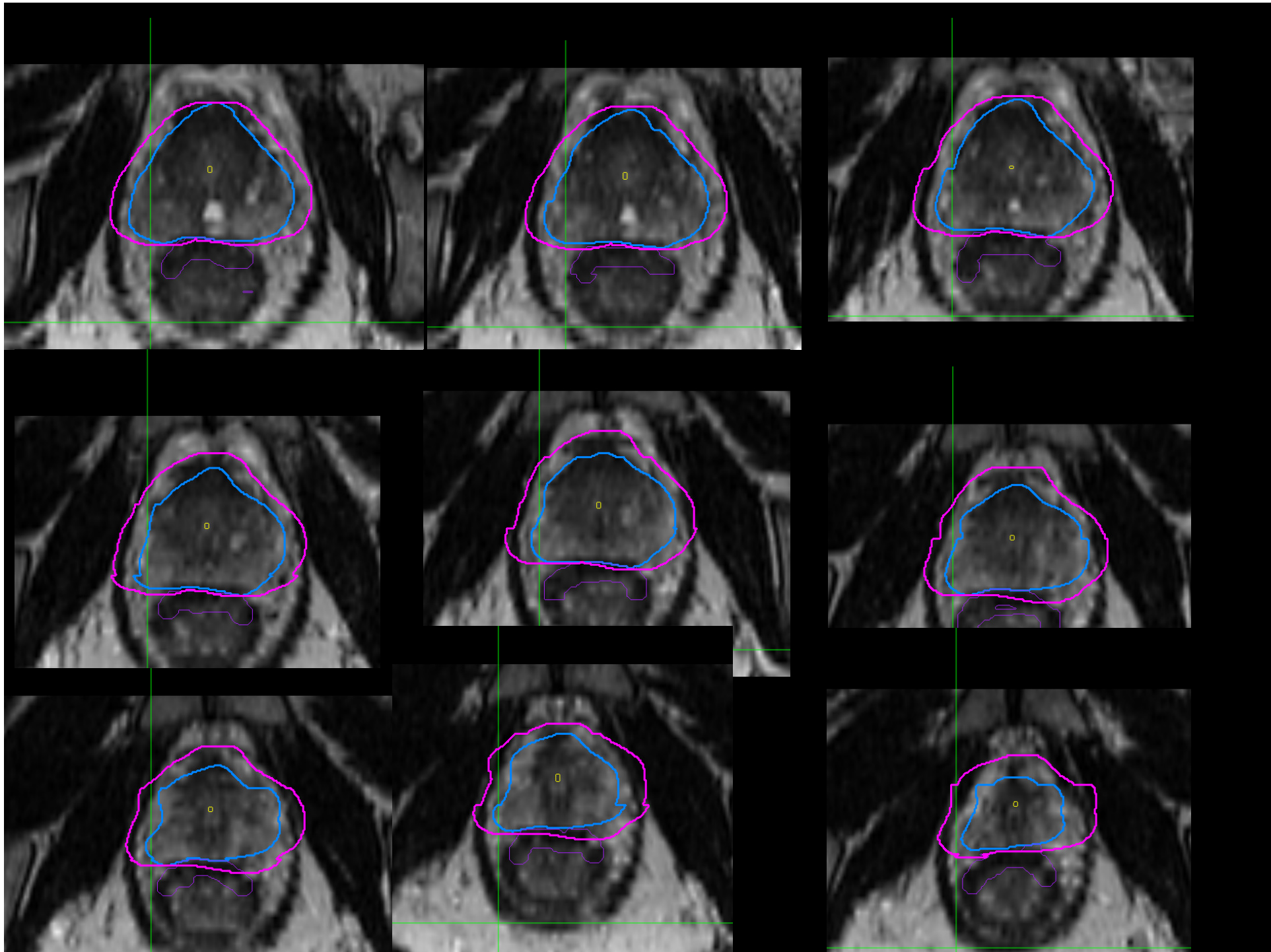
Contour urethra rectum bladder pubic arch



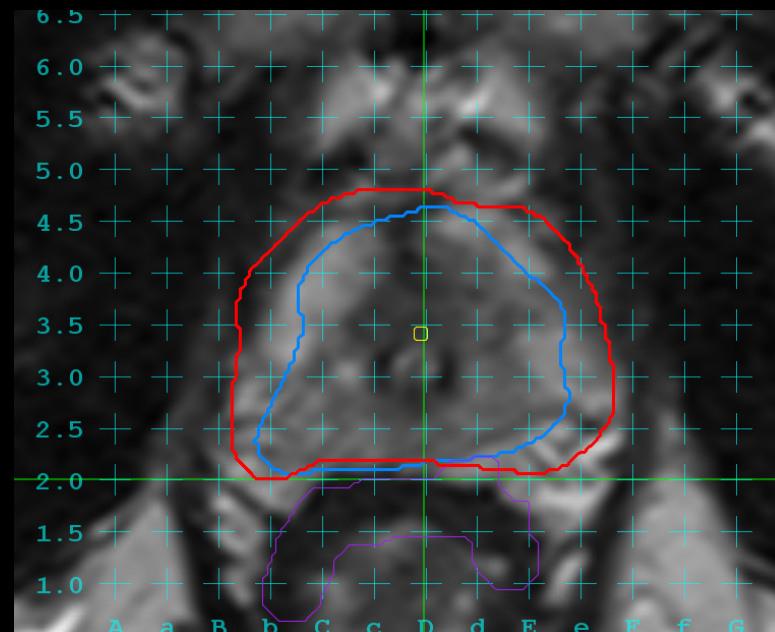
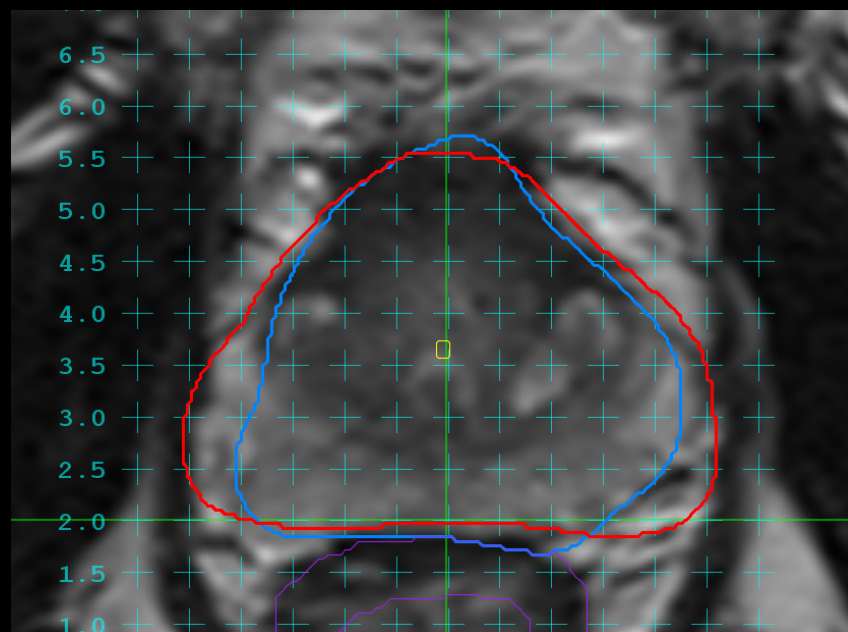
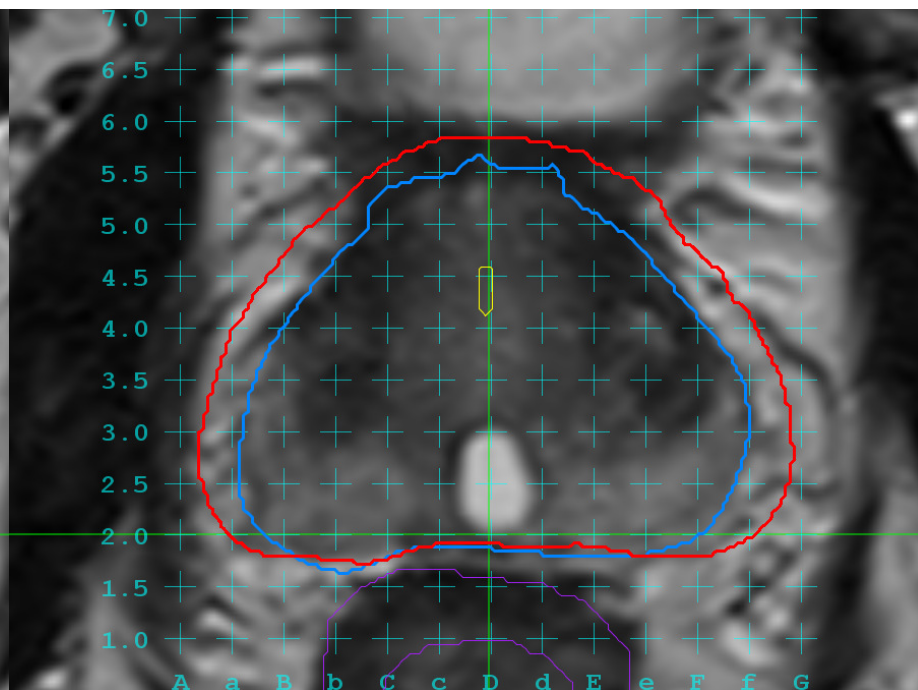
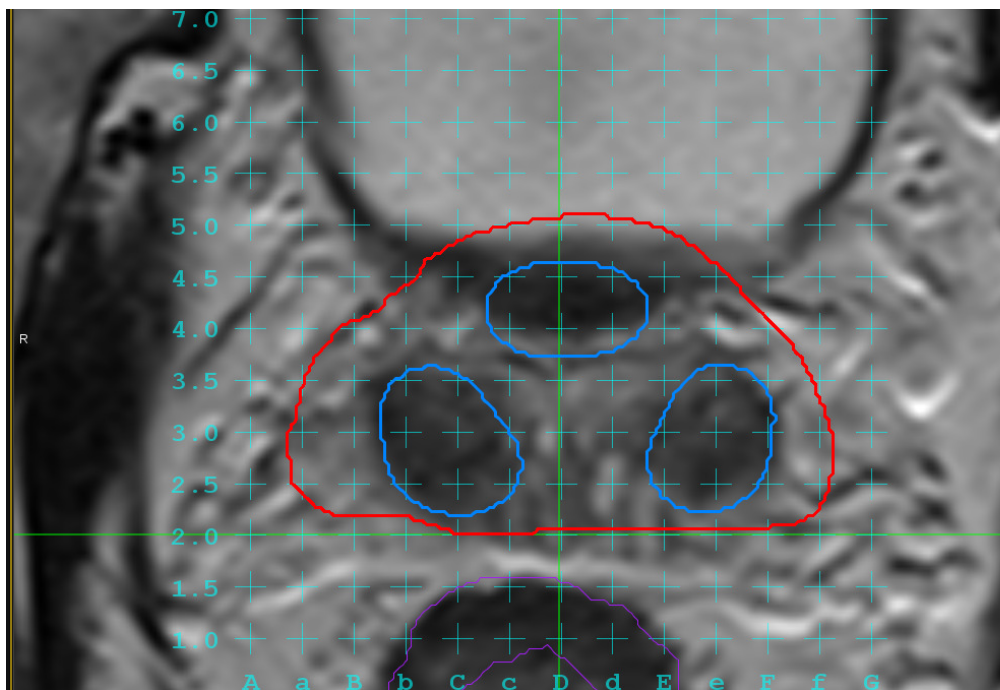
Draw in manually or
program will set up Standard
PTV parameters







Set up Grid Begin Planning



MRI Planned Implant

