

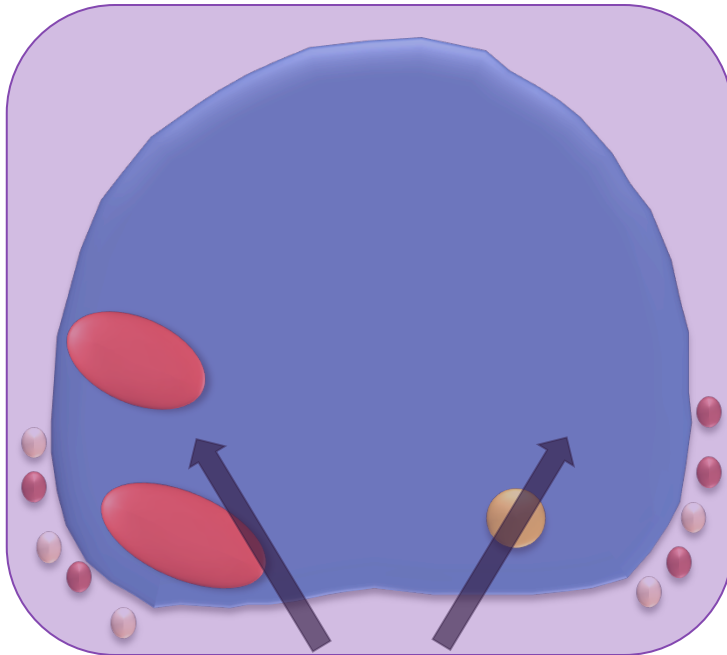


## Focal Therapy for prostate cancer

**Hashim Uddin Ahmed**  
Reader in Urology &  
Honorary Consultant Urological Surgeon

**Manit Arya**  
Consultant Urological Surgeon

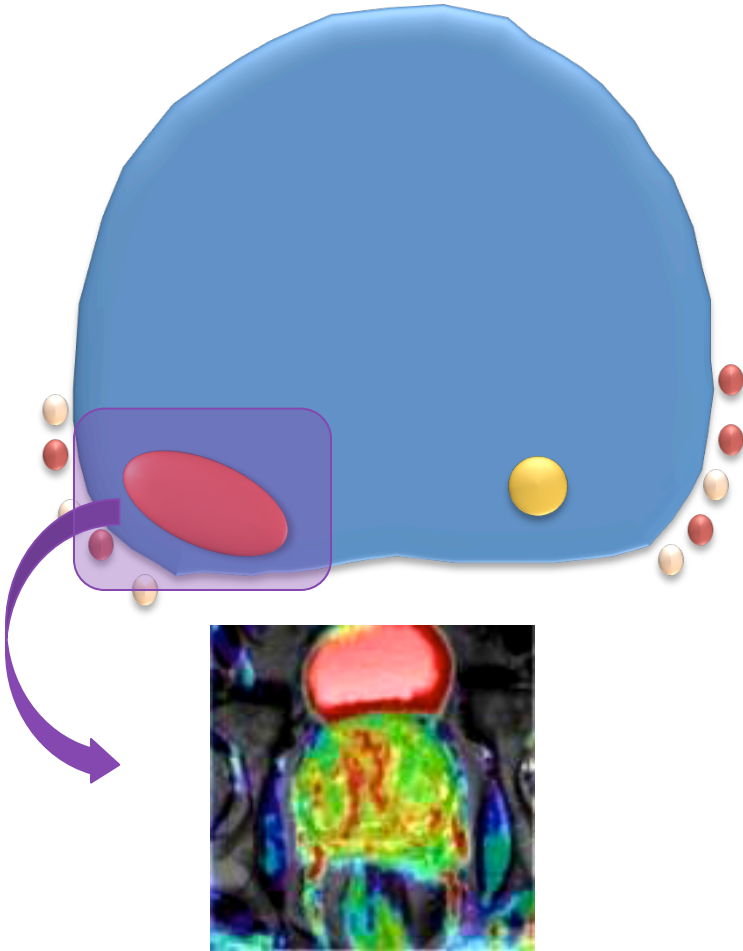
## The errors that result from the current pathway...



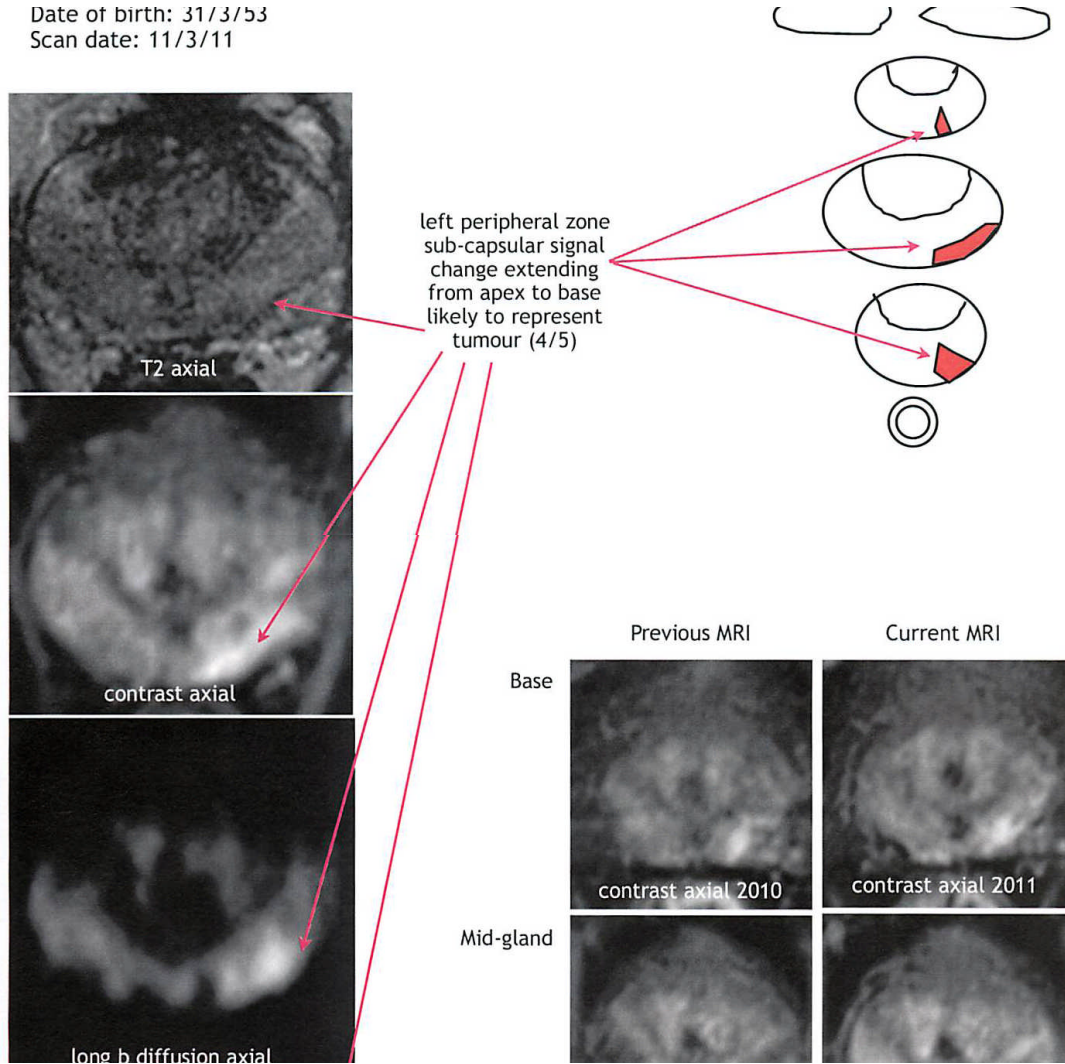
- Clinically indolent cancers are identified by chance
- Clinically significant lesions are missed
- Important cancers are incorrectly classified as unimportant
- Men undergo whole-gland treatment which carries harm

## A strategy to overcome the errors in the current pathway...

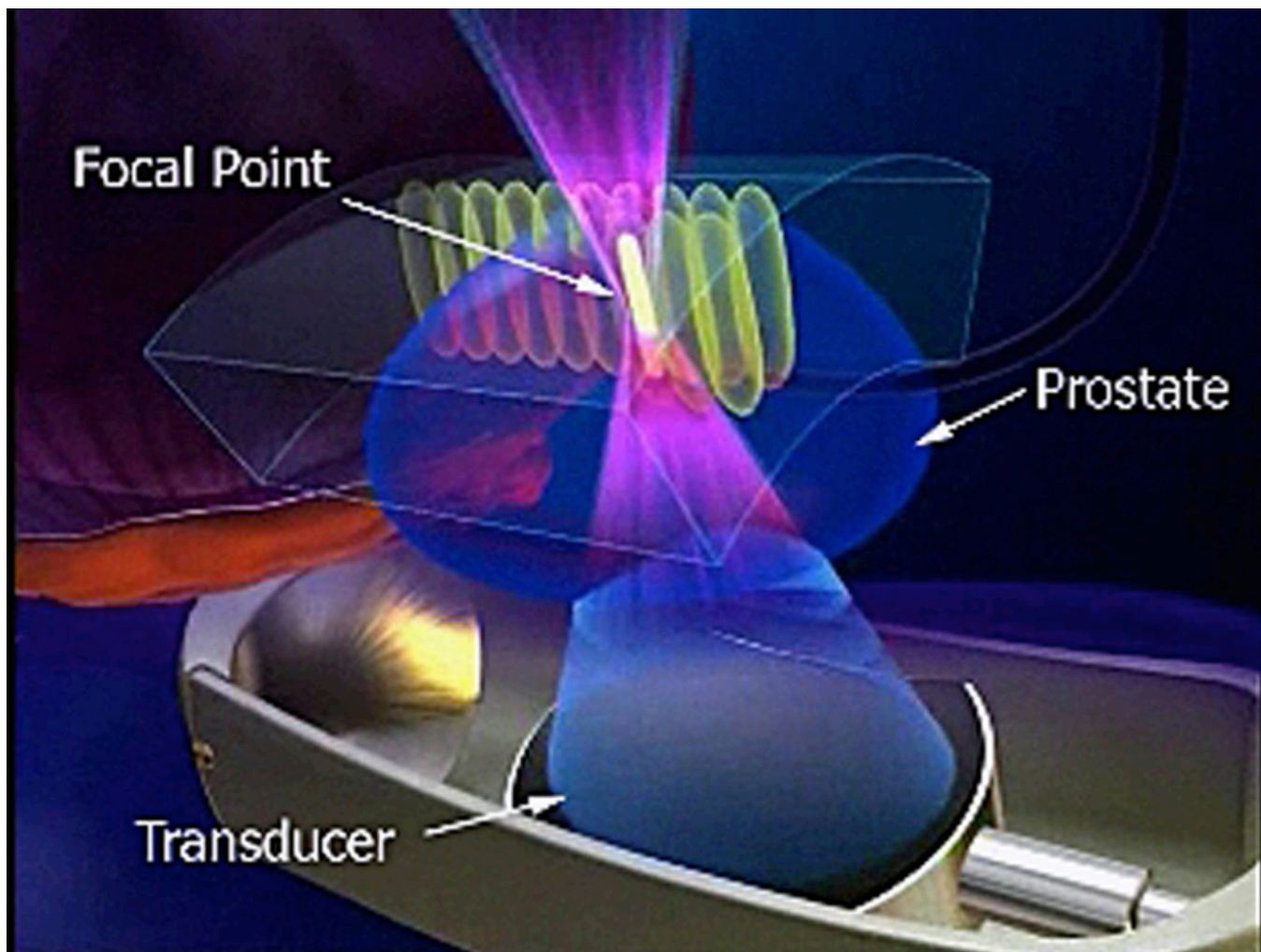
- Not all lesions have the potential to progress to invasive and metastatic cancer
- Novel imaging and precision biopsy can identify those lesions that are likely to progress
- Selective therapy to **Clinically Significant** lesions alone will be as effective as whole-gland treatment and carry less harm



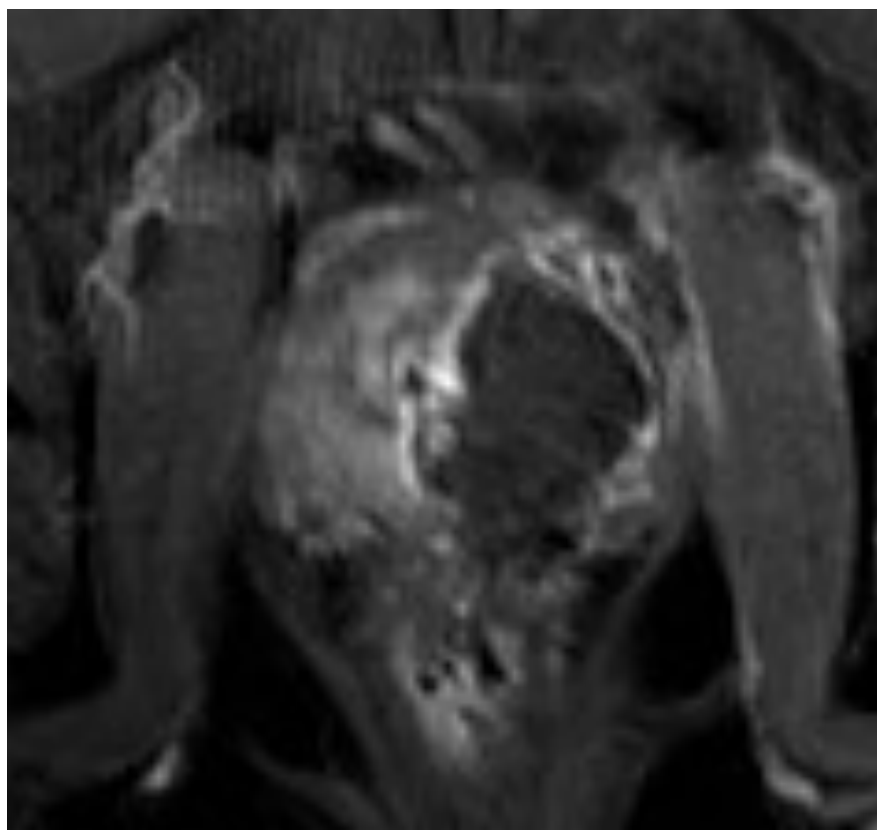
Date of birth: 31/3/53  
Scan date: 11/3/11



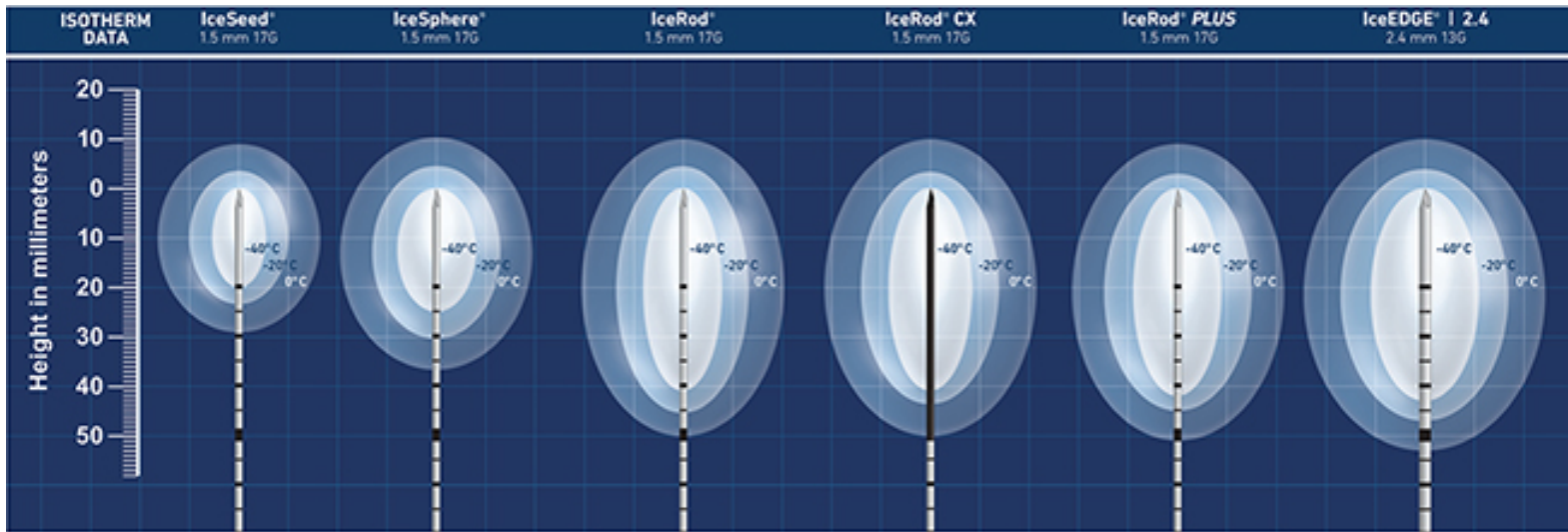




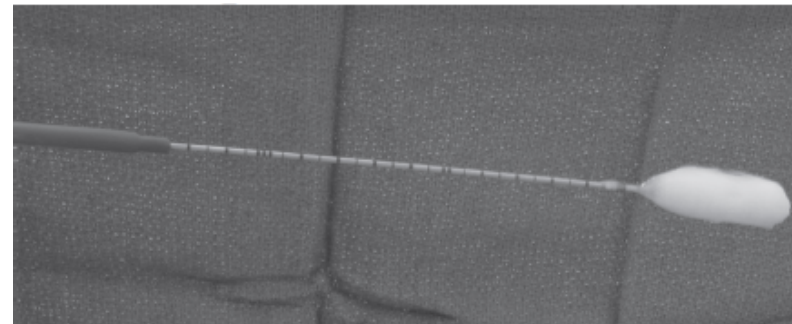
# Early Post-HIFU mpMRI



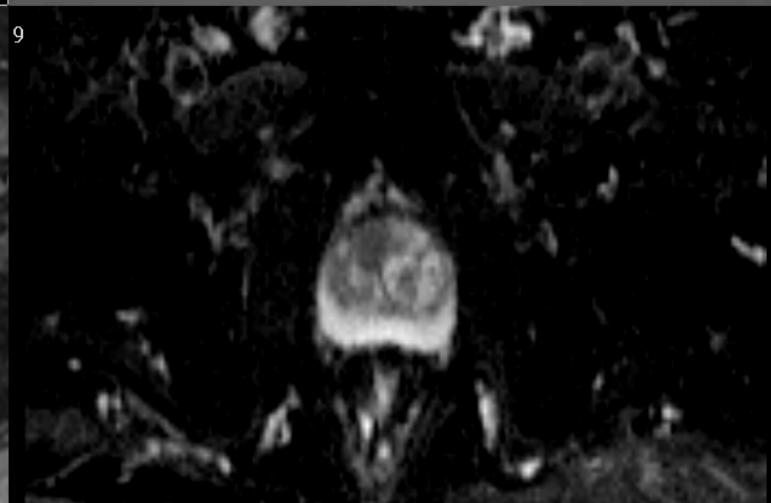
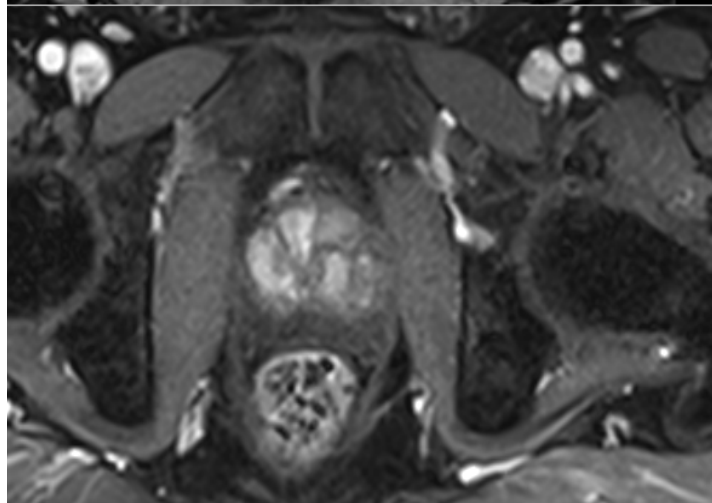
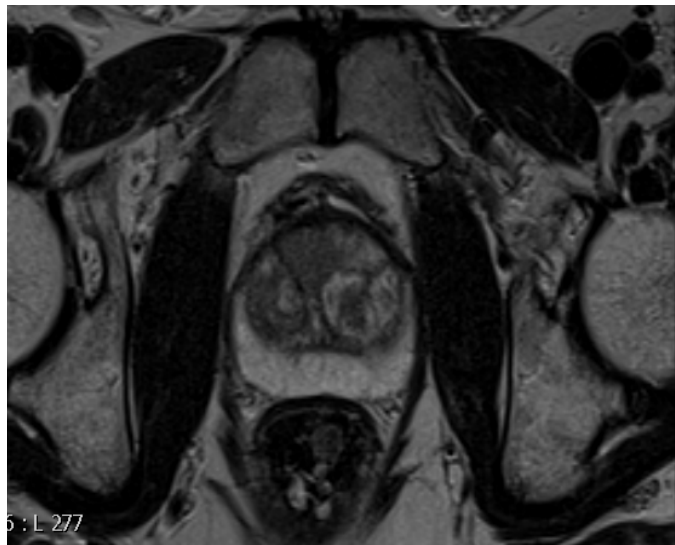
# Focal Cryotherapy

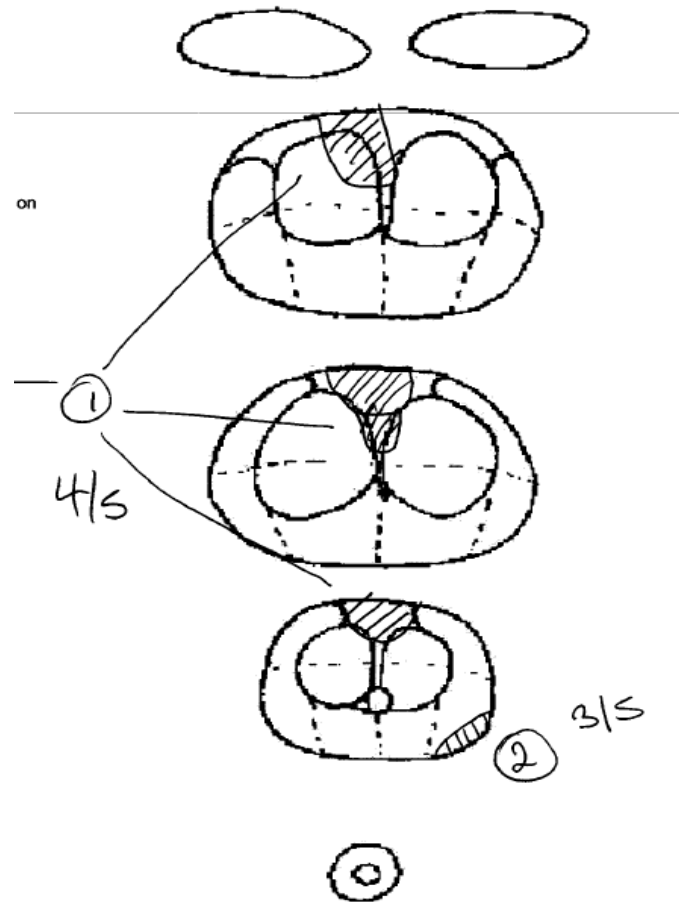


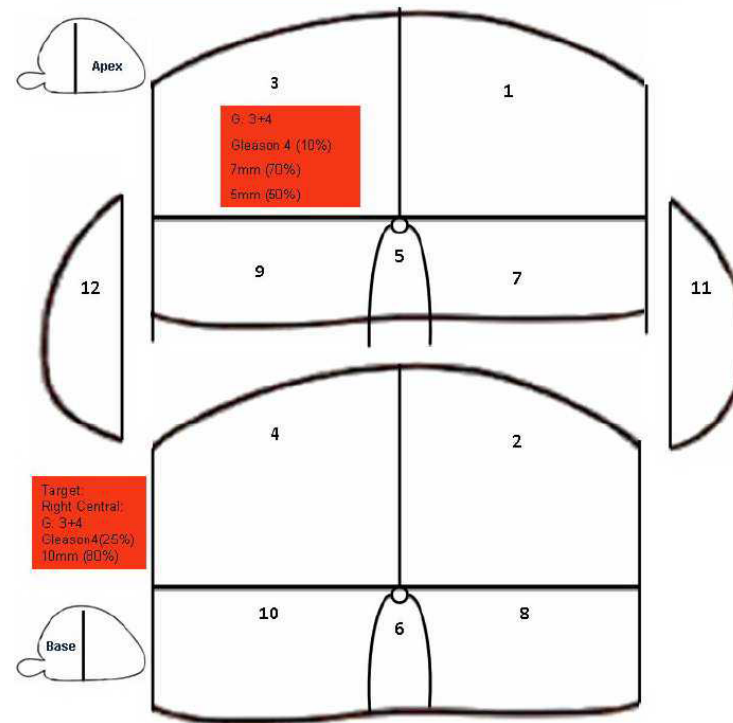
Needles (17G)







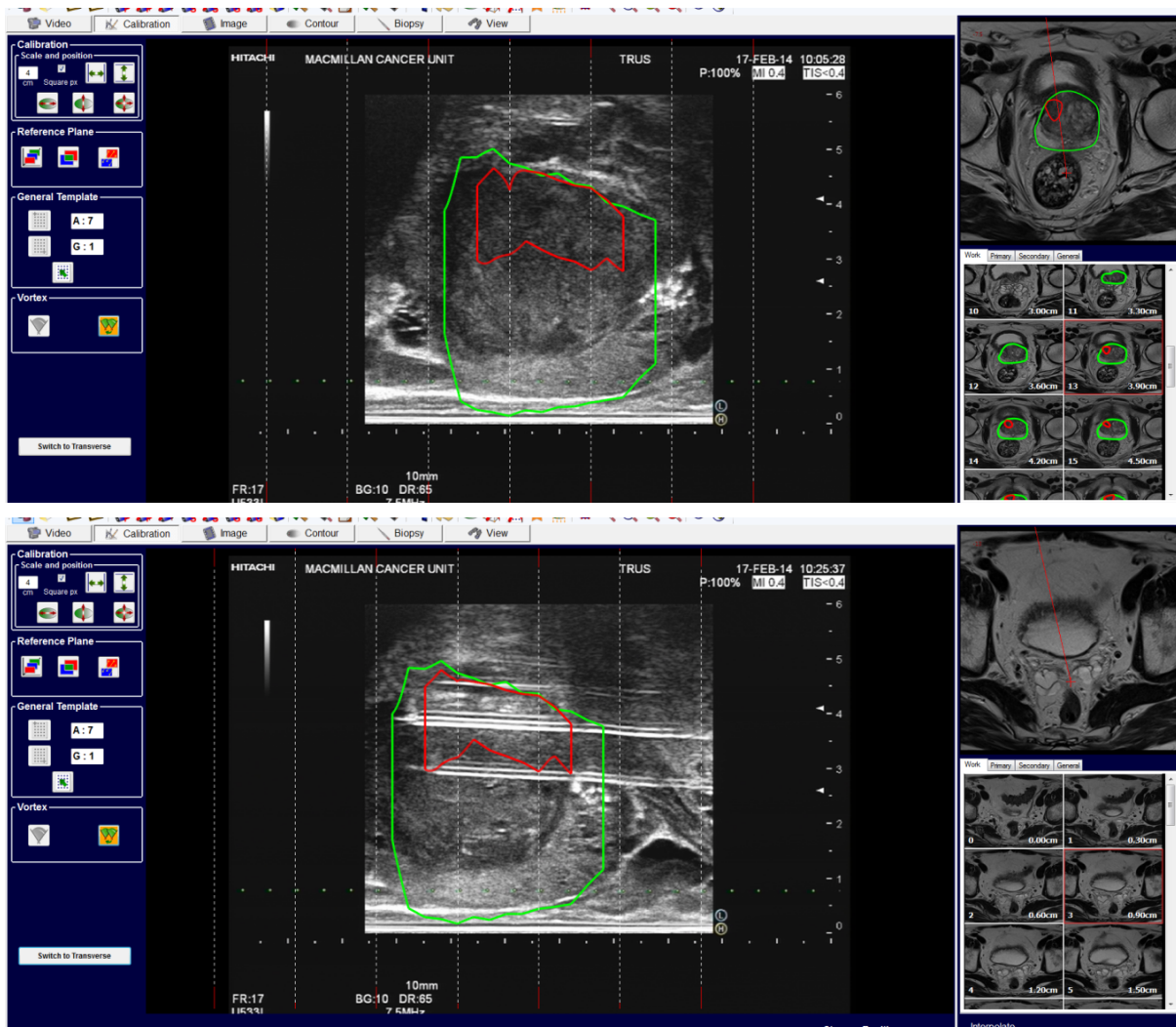


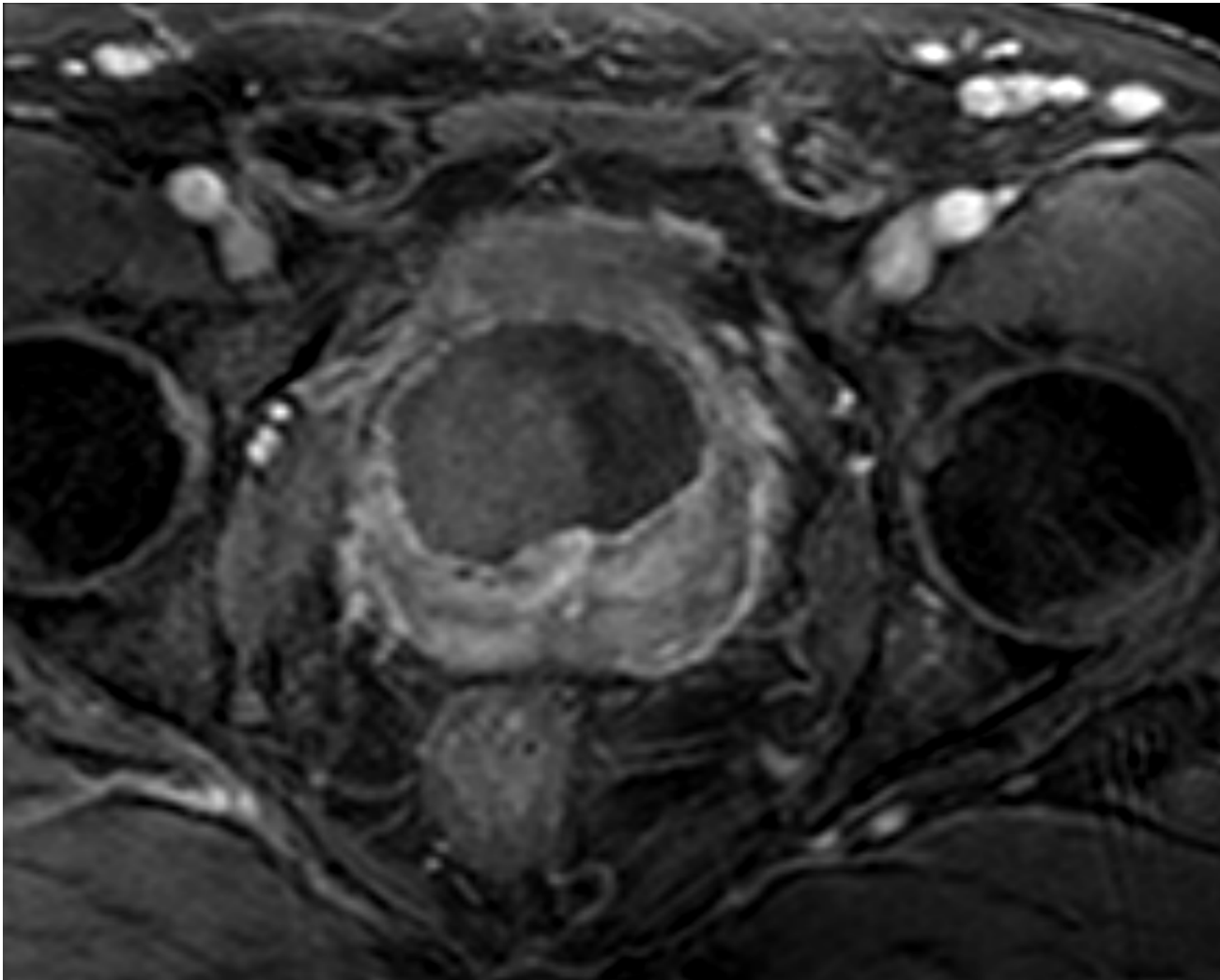


**Modified Barzell Zones**

- |                       |                         |
|-----------------------|-------------------------|
| 1 Left Anterior Apex  | 7 Left Posterior Apex   |
| 2 Left Anterior Base  | 8 Left Posterior Base   |
| 3 Right Anterior Apex | 9 Right Posterior Apex  |
| 4 Right Anterior Base | 10 Right Posterior Base |
| 5 Midline Apex        | 11 Left Lateral         |
| 6 Midline Base        | 12 Right Lateral        |

- HGPIN / atypical acini
- Clinically insignificant disease (G3+3 up to 3mm)
- Gleason = 3+4 AND/OR Max Cancer length 4-5mm
- Gleason  $\geq$  4+3 AND/OR Max cancer length  $\geq$  6mm





	Radical surgery	Radical Radiotherapy	Focal therapy
Incontinence	10-20%	10-20%	1-2%
Impotence	30-60%	50-60%	5-10%
Rectal toxicity	1%	5%	0.1%
Failure at 5 years	5-10%	5-10%	5-10%



**Nuada**  
Urology