

# Prostate Update: Spire Yale



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# Outline

- Urolift
- Template Biopsies
- MP-MRI

# Current Operations

- TURP
- TURis
- HOLEP



# Main problems with Operation

- Inpatient stay
- TUR Syndrome (Fluid absorption)
- Erection Problems
- Retrograde ejaculation
- Incontinence

# New Treatment for BPH

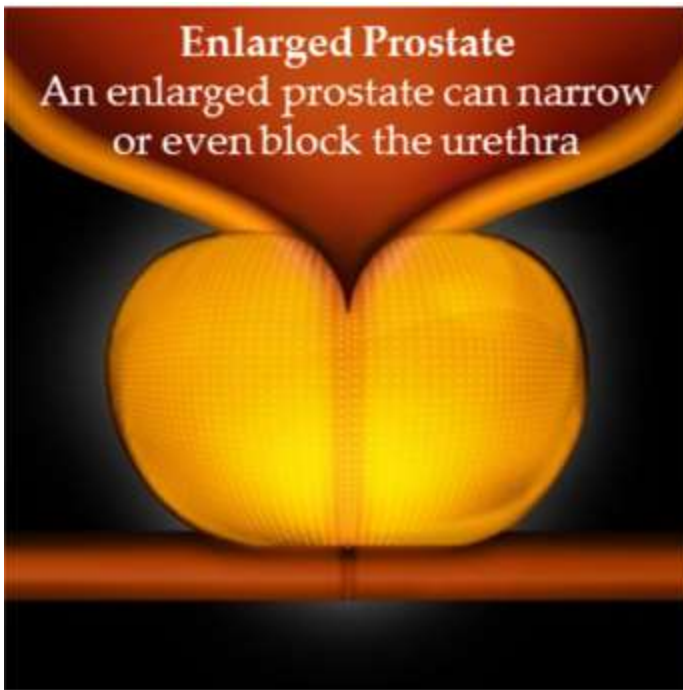


**UroLift Implant**

**UroLift Delivery Device**

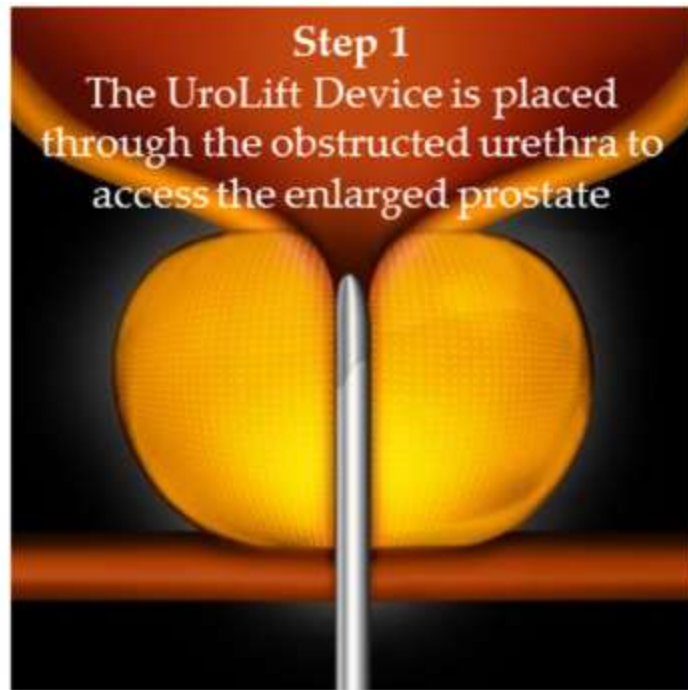
### Enlarged Prostate

An enlarged prostate can narrow or even block the urethra



### Step 1

The UroLift Device is placed through the obstructed urethra to access the enlarged prostate



### Step 2

Implants lift the enlarged prostate tissue out of the way and increase the opening of the urethra

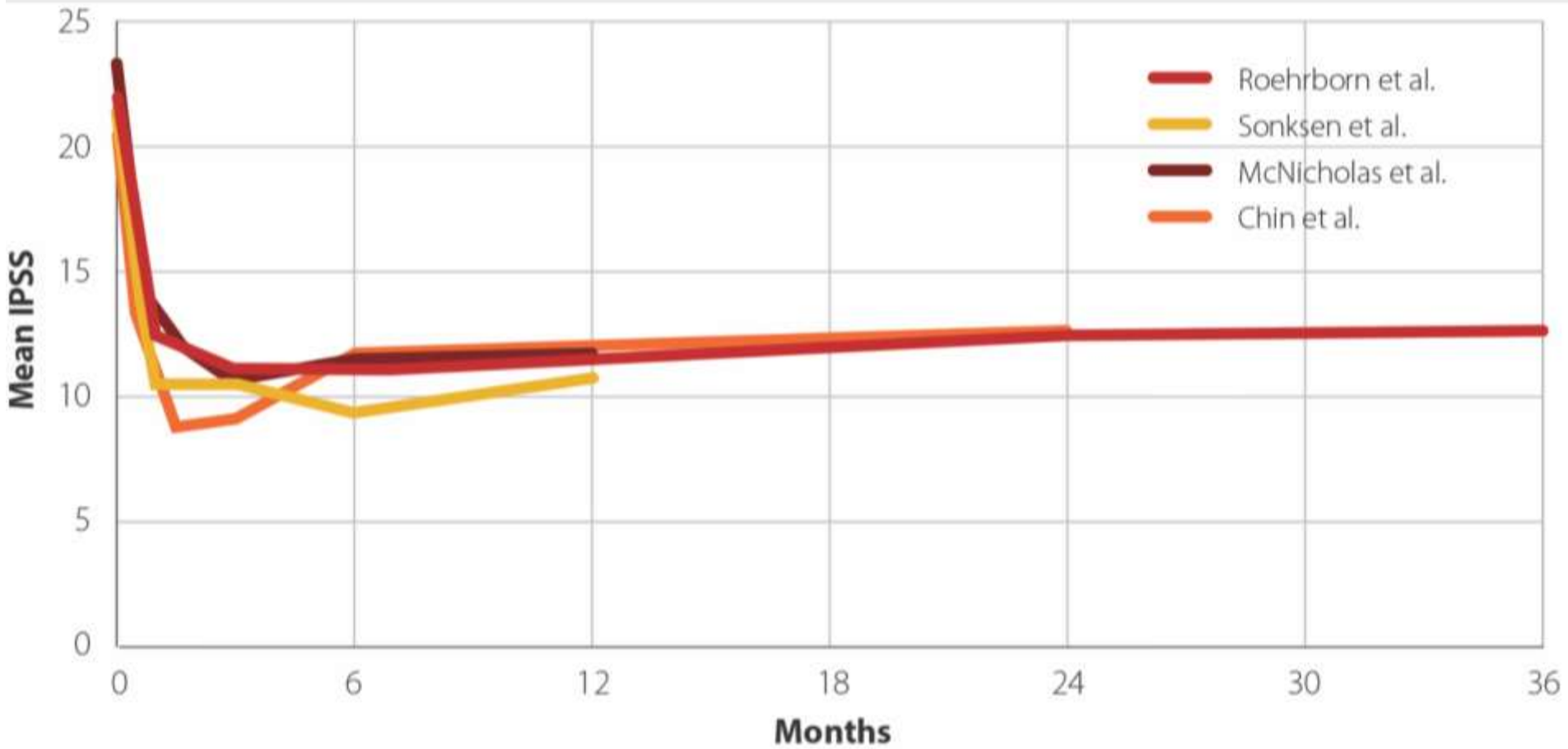


### Step 3

The UroLift Device is removed, leaving an open urethra with symptom relief



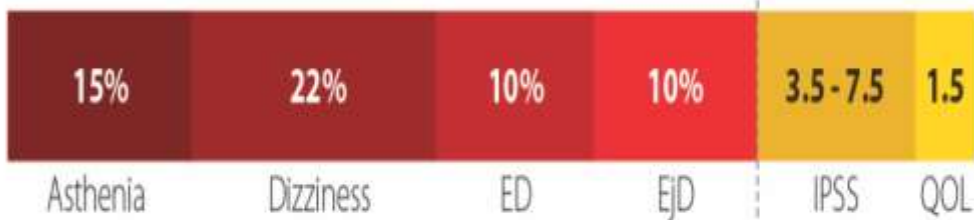
# Symptom Improvements...



UROLIFT<sup>1</sup>



Drugs<sup>2</sup>



Laser<sup>2</sup>



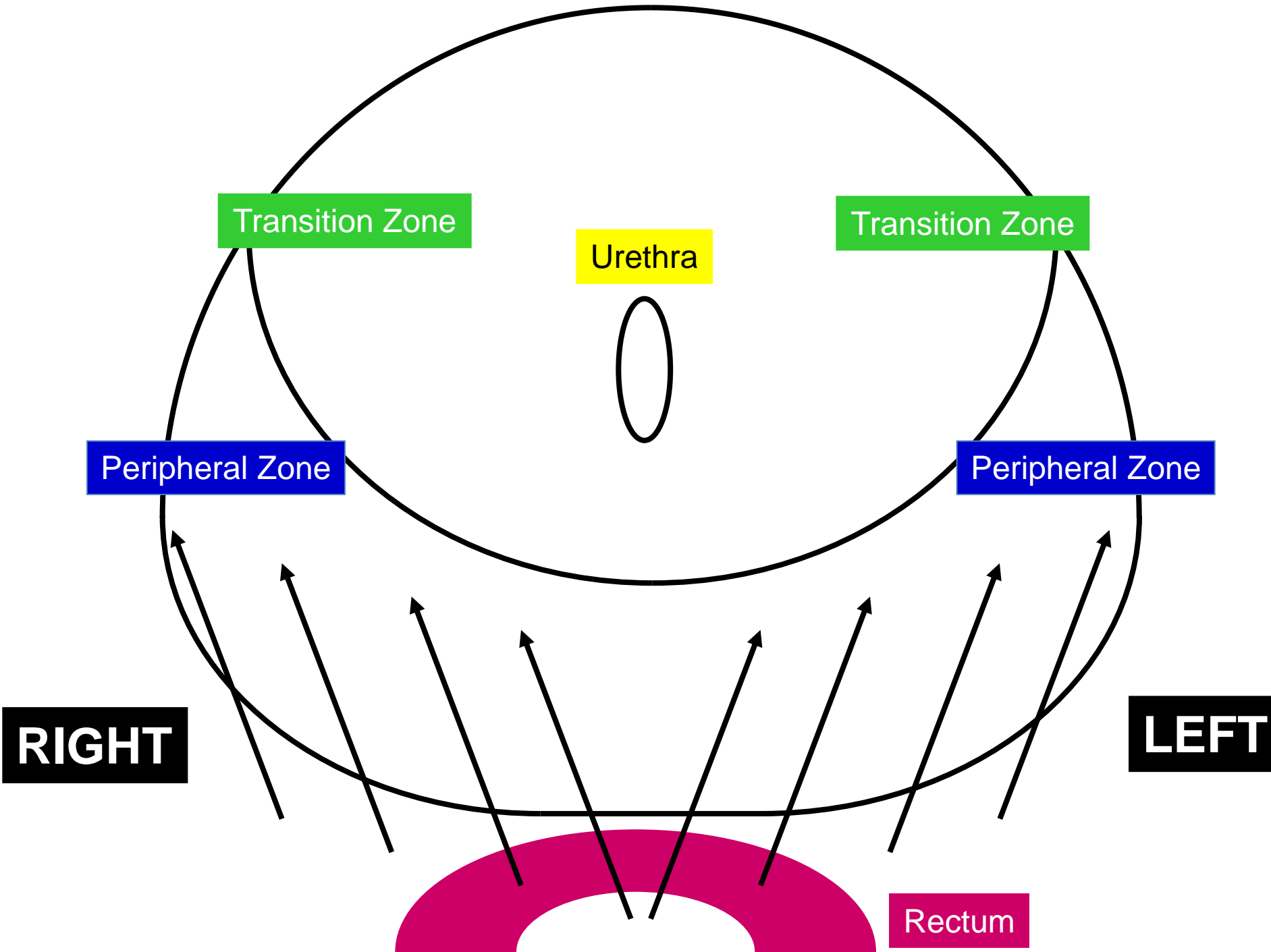
TURP<sup>2</sup>



SUI – Stress Urinary Incontinence    ED – Erectile Dysfunction    EjD – Ejaculatory Dysfunction



# Prostate Cancer



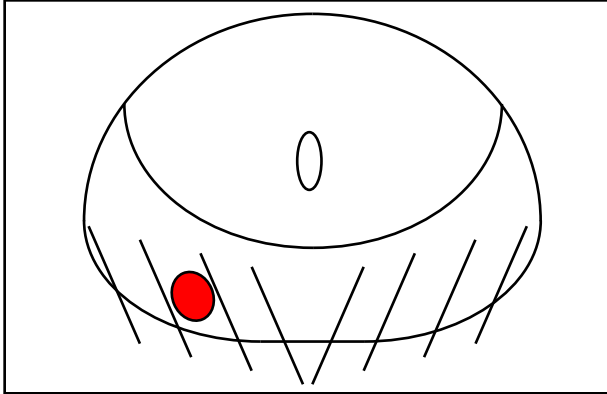
# Advantages

- Local Anaesthetic
- Generally well tolerated
- Quick to do – Only takes 15-20 mins

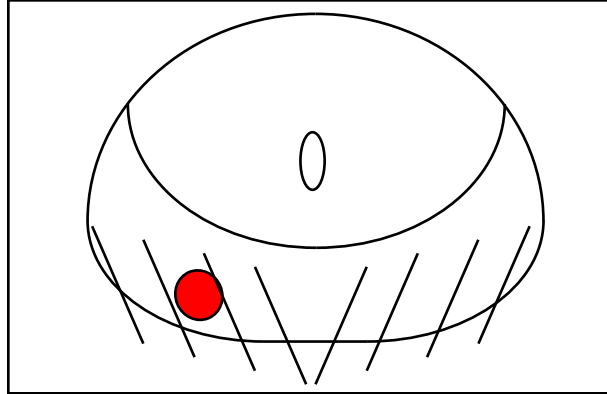
# Disadvantages

- Random Biopsy
  - Only organ in human
  - cf: Breast and Bowel
- Imprecise
  - Does not allow good diagnosis
  - May miss significant cancer
  - May pick up insignificant cancer
  - May totally miss anterior cancer

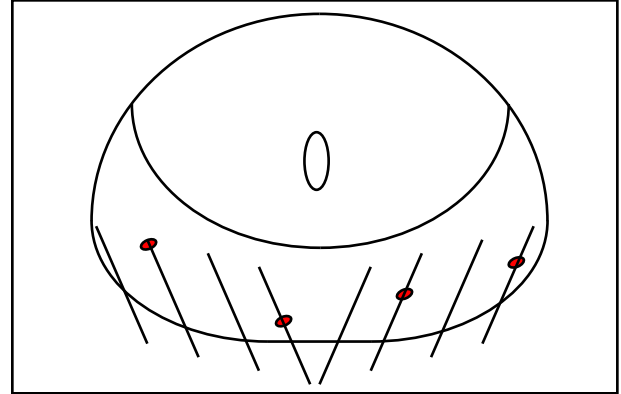
# TRUS Biopsies are Imprecise



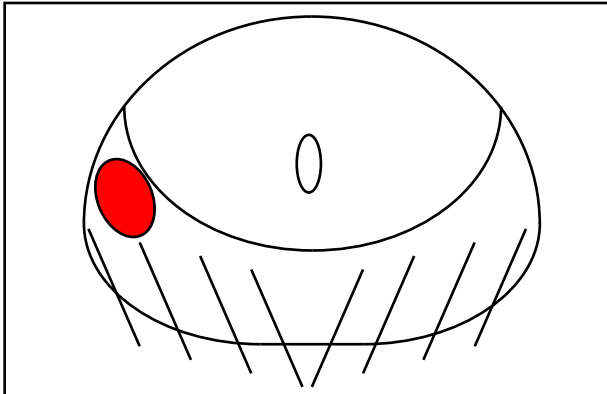
**Totally Miss**  
**Significant** cancer



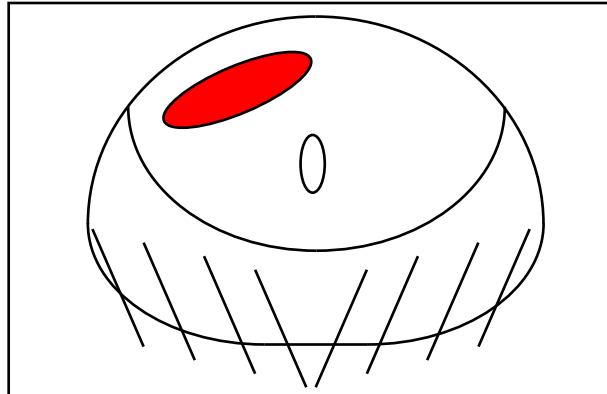
**Misdiagnose**  
**Significant** cancer



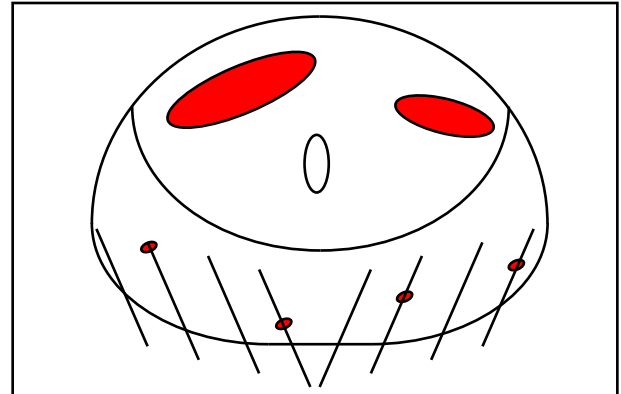
**Diagnose**  
**Insignificant** cancer



**Totally Miss**  
**Significant** PZ cancer



**Totally Miss**  
**Significant** TZ cancer

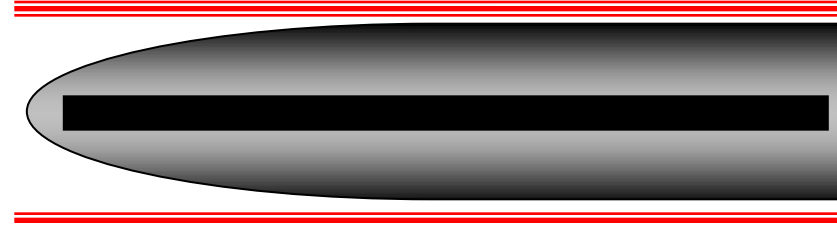
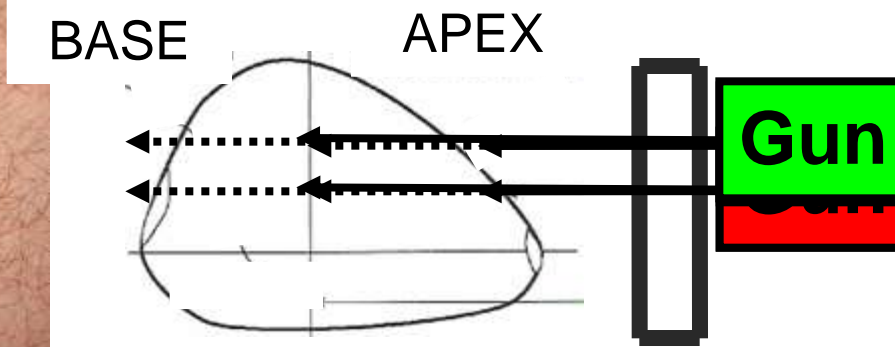
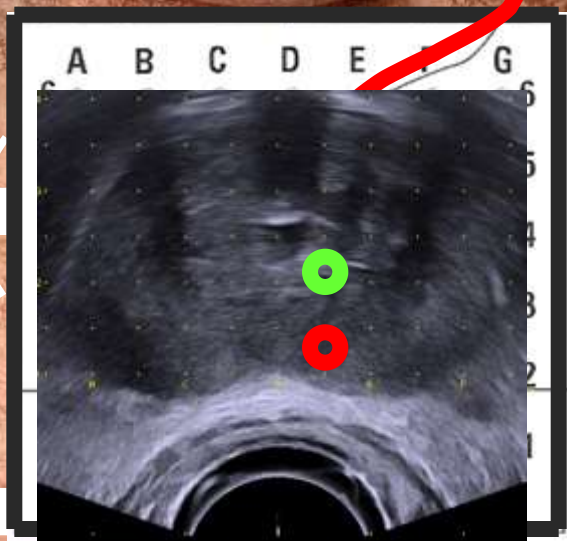
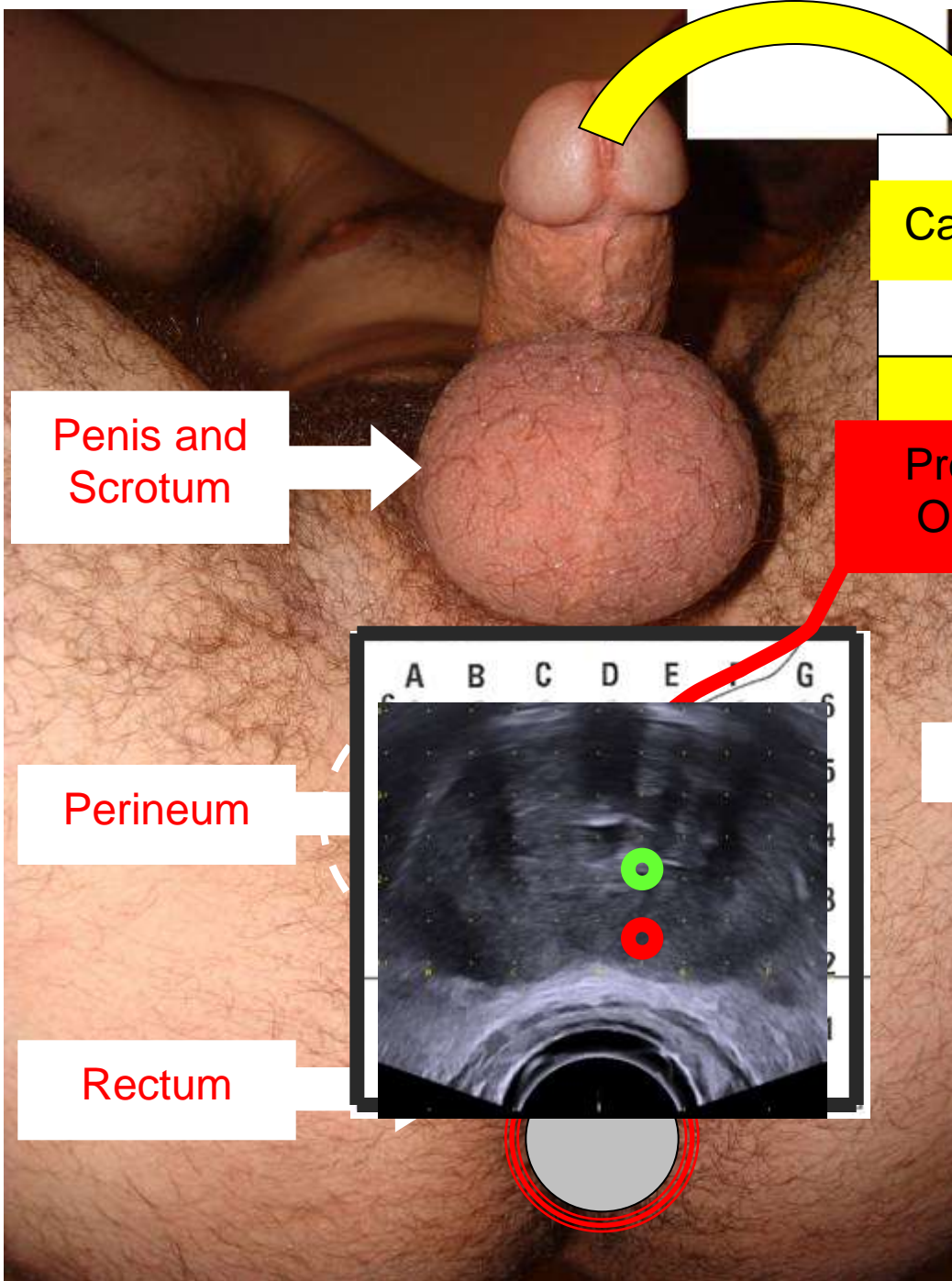


**Misdiagnose**  
**Significant** cancer

# Disadvantages

- Random Biopsy – only organ in human
- Imprecise – does not allow good diagnosis
  - May miss significant cancer
  - May pick up insignificant cancer
  - May totally miss anterior cancer
- **Infection Risk**
  - Life threatening sepsis → Intensive Care
  - Drug resistant infections

# Template Biopsy Prostate

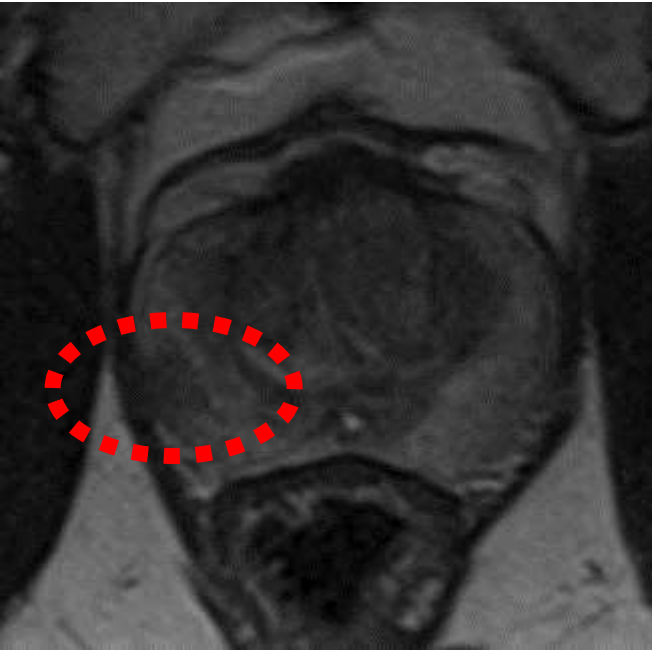


# Spot the difference!

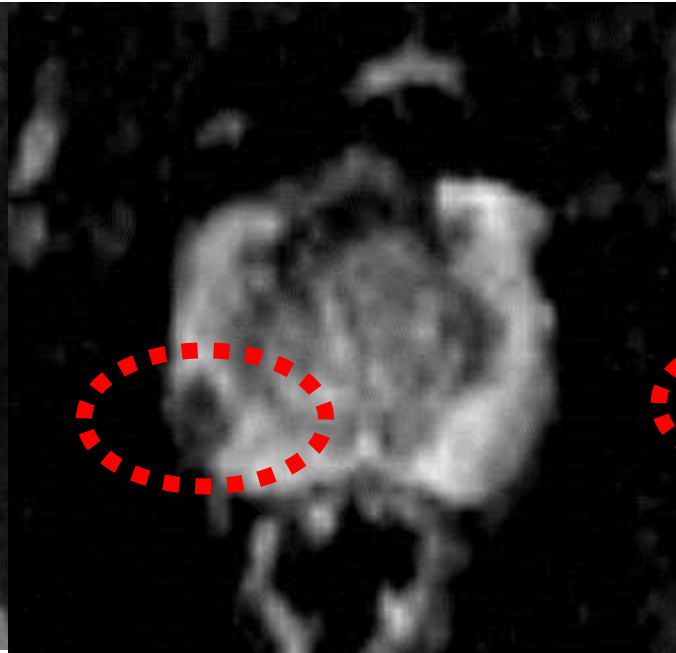




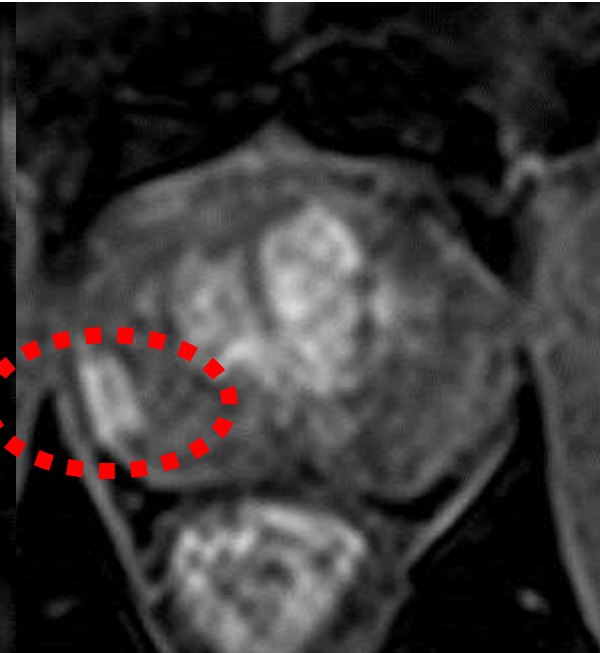
# Multi-Parametric MRI Prostate



**T2**



**DWI**



**DCE**



- **Prostate MRI Imaging Study**
- Evaluation of MP-MRI in the Diagnosis and Characterisation of Prostate Cancer
- MRC Clinical Trials and NCRN
- UCLH Royal Marsden Hospital
- Wrexham Maelor Hospital

# PROMIS Trial Results

- Results from 576 men

	Sensitivity	NPV
MP-MRI	93%	89%
TRUS Bx	48%	74%

- MP-MRI would avoid a primary biopsy in 158 men
- 27% → 1 in 4 men!!!

# PROMIS Trial Conclusions

- TRUS-biopsy performs **poorly** both in detecting and ruling-out clinically significant prostate cancer
- MP-MRI as a triage test can identify **27%** of men who might safely avoid unnecessary biopsy, without impairing the detection of clinically significant cancer

# PROSTATE CANCER UK

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**mpMRI: early action to get a  
new diagnostic adopted by UK  
healthcare systems**

# Summary

- Urolift
- Template Biopsies
- MP-MRI