# CRYOTHERAPY/CRYOSURGERY AND HIFU (High Intensity Focused Ultrasound) FOR THE TREATMENT OF LOCALISED PROSTATE CANCER

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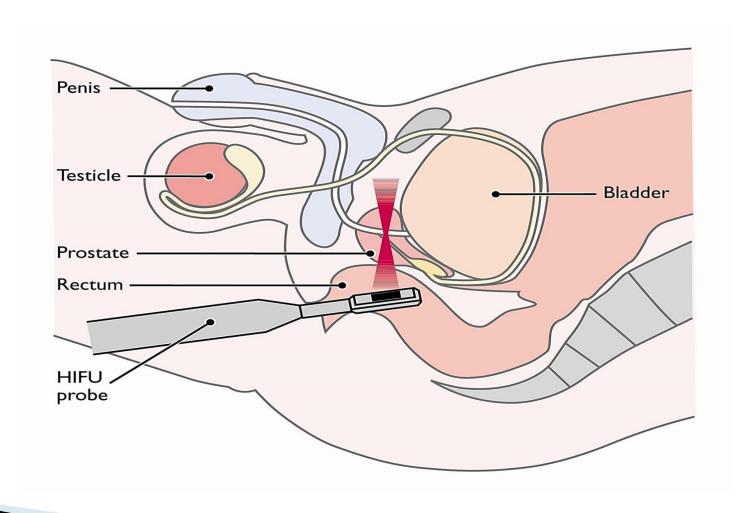
#### **CRYO AND HIFU**

- Both for organ confined localised prostate cancer (<40mls, PSA<20, Gleason <=7)</p>
- Both only available at Specialist Centres or as part of a clinical trial (NICE)
- Both "new" treatments with no long term data for survival rates
- Both also used as 2<sup>nd</sup> line treatment after failed Radiotherapy/Brachytherapy

#### **HIFU**

- Specialist centres/clinical trials only
- Day case/overnight stay
- Enema prior to treatment
- GA/Spinal
- Patient catheterised (urethral/suprapubic)
- Heats and destroys cells (coagulative necrosis)
- Cooling balloon surrounds the probe
- ▶ 10g/hour so prostate size important
- May need TURP prior to HIFU

## **HIFU**



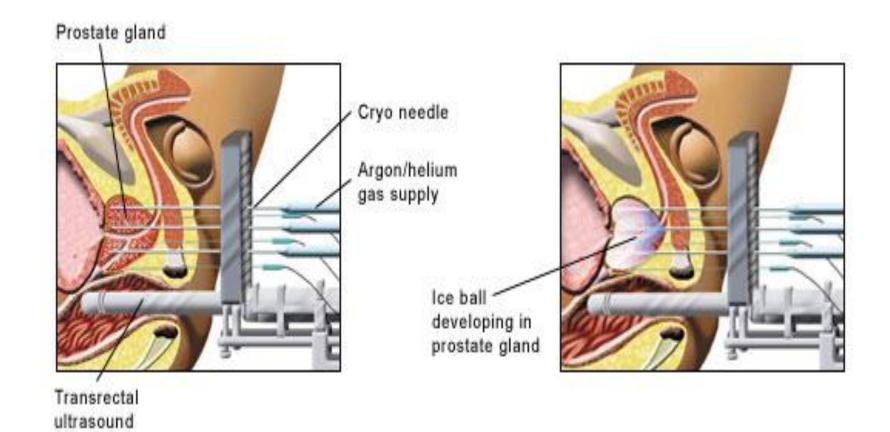
#### HIFU side effects

- Prostatitis/pain
- Bladder irritability
- UTI
- Stress incontinence
- Erectile Dysfunction
- Prolonged urinary retention
- Rarely prostatic abscess and rectal fistula

## Cryotherapy

- Specialist centres/clinical trials only
- Day case/overnight stay
- Enema prior to treatment
- GA/Spinal
- Patient catheterised (urethral/suprapubic)
- Warming catheter inserted in urethra
- Trans rectal probe inserted
- Cryo needles inserted via perineum and argon gas cools them to -40c

## Cryotherapy



## Cryotherapy side effects

- Erectile Dysfunction
- Tissue sloughing
- Incontinence/bladder irritability
- UTI
- Pelvic/perineal pain
- Salvage therapy has higher risk of side effects

### References

- European Association of Urology prostate cancer guidelines (uroweb.org/wp-content/uploads/1607-Prostate-Cancer)
- NICE interventional procedure guidance
- Orchid male cancer (<u>www.orchid-cancer.org.uk</u>)
- Prostate Cancer UK (prostatecanceruk.org)