

# Radiation Therapy for Prostate Cancer: Having a SpaceOAR® Procedure

**DRCC Radiation Therapy**

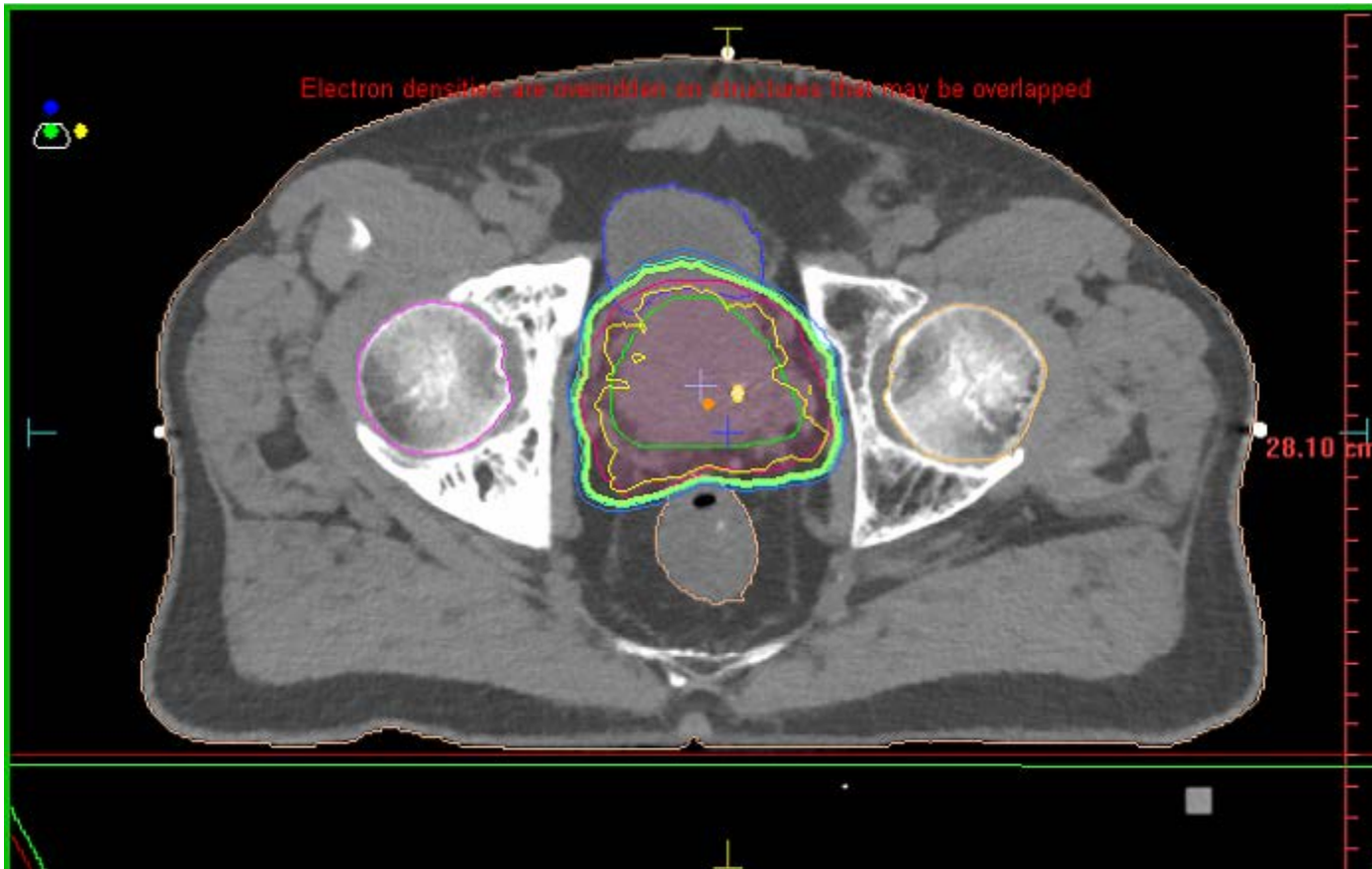
# Prostate Patient - Radiation Therapy

- **Consult – RO specialized in GU Sites**
- **Low, Intermediate and High Risk patients**
  - HDR Monotherapy
  - HDR Prostate Boost with External Beam – gold seeds
  - External Beam only – gold seeds or gold seeds and spacer
- **Pre-operative Appointment**
  - ECG, Bloodwork, Uroflow, Teaching, Pre-Anesthetic Checklist, MRI Screening/Requisition and Consent
  - If fails screening, could change decision of treatment

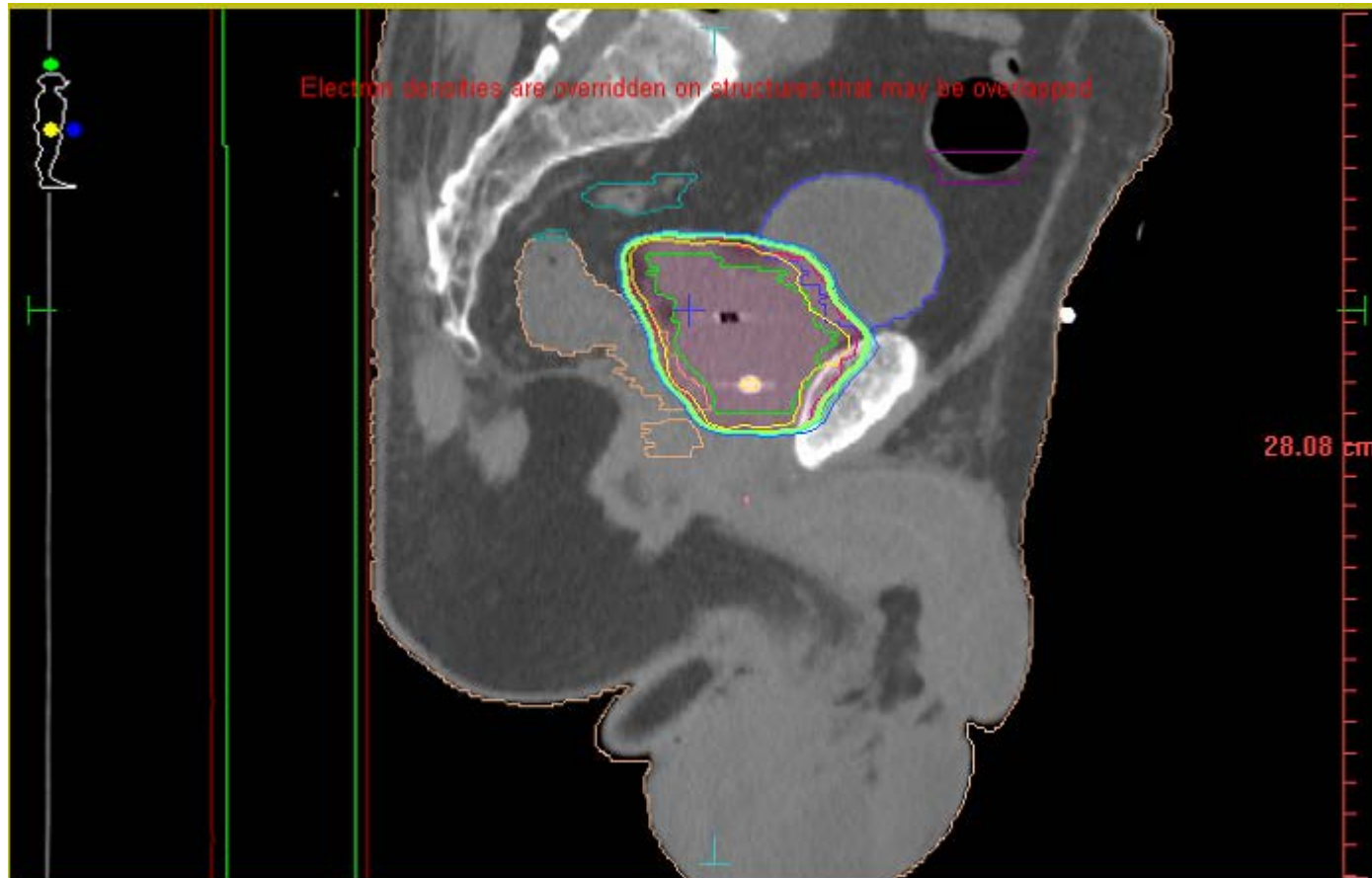
# External Beam

- **Gold seeds** are used to target the prostate for external beam treatment
- Each treatment/fraction – a conebeam scan (mini CT Scan) after patient is set up on the treatment bed using their tattoos and setup measurements.
- Target the prostate – match to the 3 gold seeds
- Maximize dose to the prostate and minimize dose to the bladder and rectum

# External Beam - Transverse View



# External Beam - Sagittal View



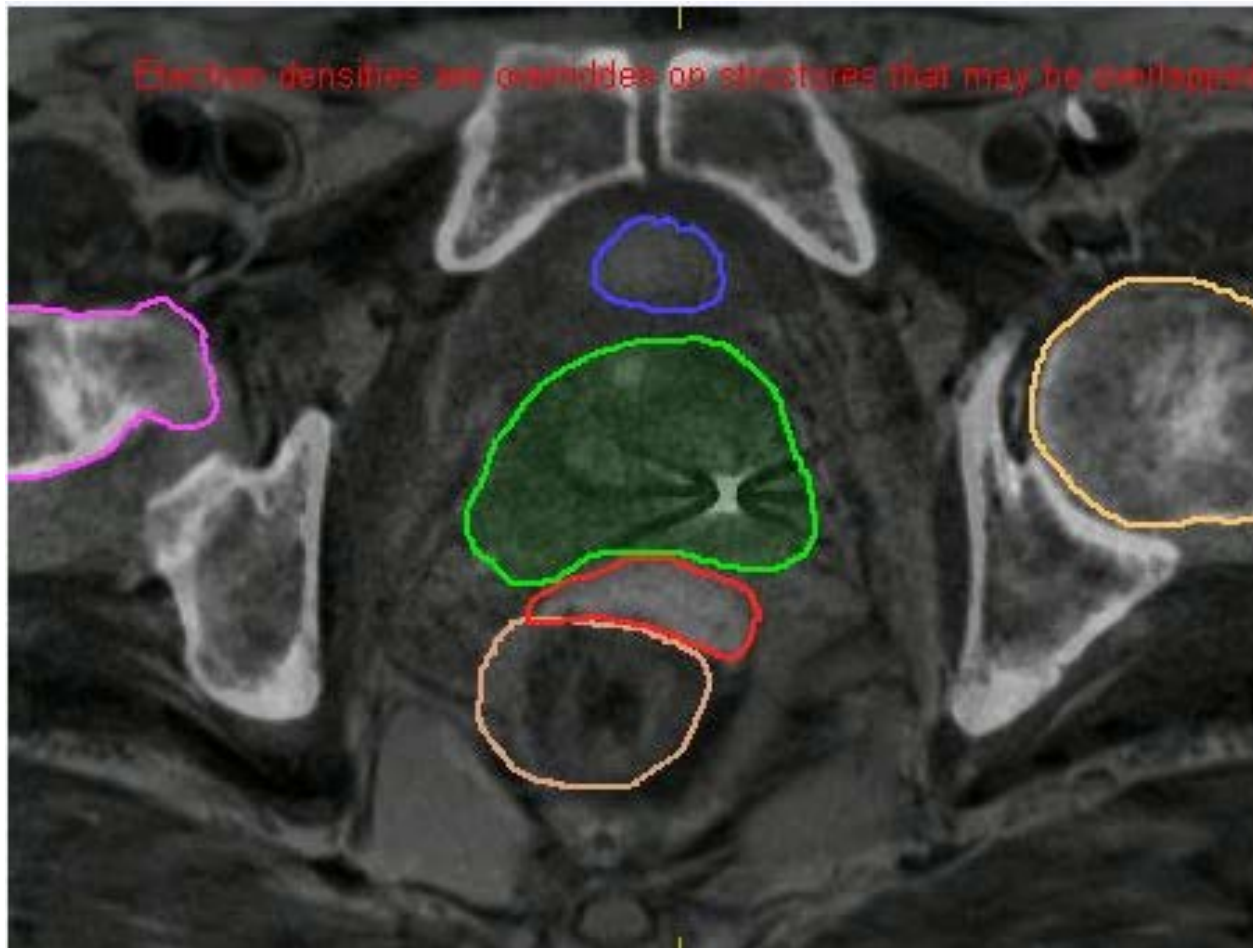
# Short and Long Term Side Effects

- **Rectum**
  - Frequent bowel movements
  - Urgency
  - Soft stools
  - **Thinned or scarred – soreness with BMs, blood, excess mucous**
- **Bladder**
  - Frequent
  - Burning
  - Urgency
  - **Blood in urine, develop scarring or stricture**

# SpaceOAR® Procedure -New

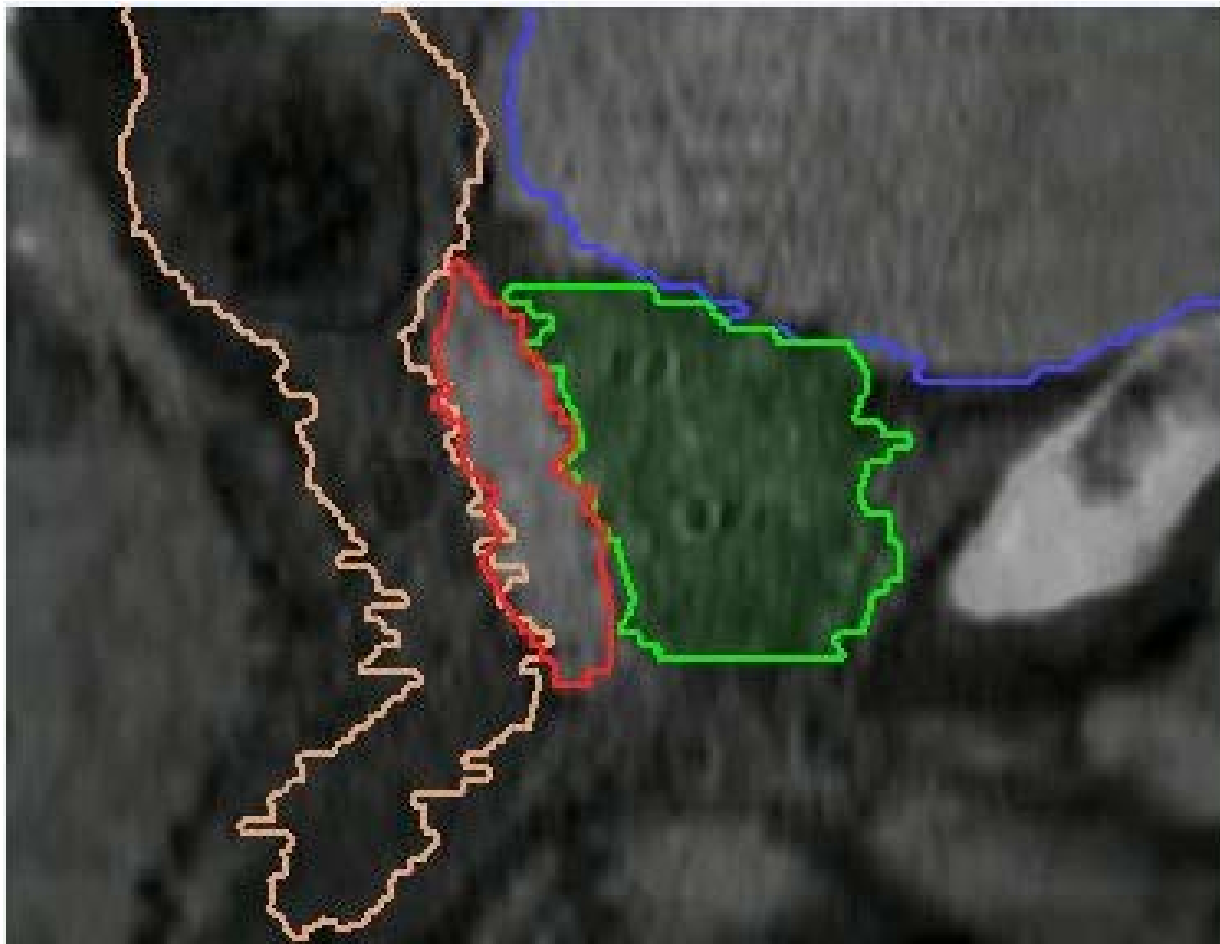
- Absorbable hydrogel creates a **space** (~1.3 cm) between the **prostate** and the **rectum** therefore protecting the rectum from radiation exposure.
- Local or general anesthetic
- RO (Dr.Koll to start) – certification process
- Injected as a liquid through small needle
- Ultrasound guidance
- Lasts for 3 months
- After 6 months, the hydrogel is naturally absorbed into the body and removed in your urine.

# Very first Case - Transverse View



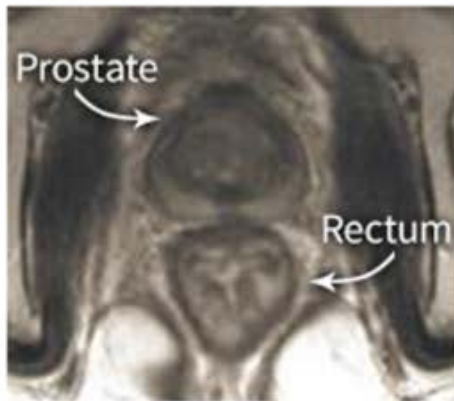


# Sagittal View



# Space Reabsorbed after 6 months

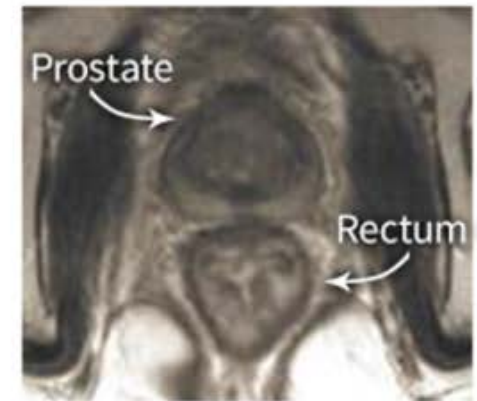
Pre Implant



Post Implant



12 Months



Augmenix – [www.spaceoar.com](http://www.spaceoar.com) – Sept 2018

# SpaceOAR® Procedure - New

- **5<sup>th</sup>** in Canada – PMH, McGill, Victoria, Alberta, DRCC
- Lakeridge Health DRCC– approved 20 kits (\$2800 each for one year)
- CCO – SpaceOAR group – advocates –Dr.Koll
- **Inclusion** – Only external Beam pts
  - SBRT – high dose, 5 fractions
  - Hip prosthesis
  - Inflammatory bowel or other significant bowel issues
  - Expected or observed bad bowel DVH planning cases
- **Exclusion** – Extracapsular extension
- First three cases June 28 2018

# Studies

- Reduction in rectal dose (V70)
- Quality of Life Outcomes –Bowel
- <https://www.spaceoar.com/physicians/clinical-publications/>

# More Information

- **Patient education**
  - <https://www.lakeridgehealth.on.ca/en/ourservices/Radiation-Therapy-Patient-Education.asp>
- **Staff and patient education**
  - <https://www.spaceoar.com/>