Radiation Therapy for Prostate Cancer: Having a SpaceOAR® Procedure

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Prostate Patient - Radiation Therapy

- Consult – Dr. Wayne Koll, Dr. Audrey Li, Dr. Jimmy Mui, Dr. Joel Broomfield, Dr. Mark Niglas (New)
- 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

SpaceOAR® Procedure - New

- 5th 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](https://www.lakeridgehealth.on.ca/en/ourservices/Radiation-Therapy-Patient-Education.asp)

• Staff and patient education
  ▫ [https://www.spaceoar.com/](https://www.spaceoar.com/)