

Minimising and managing toxicity in Prostate Brachytherapy Leeds UK

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ACENDE RT - RTC 400 pts: 12 m ADT + EBRT + LDR PB



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Clinical Investigation

Androgen Suppression Combined with Elective Nodal and Dose Escalated Radiation Therapy (the ASCENDE-RT Trial): An Analysis of Survival Endpoints for a Randomized Trial Comparing a Low-Dose-Rate Brachytherapy Boost to a Dose-Escalated External Beam Boost for High- and Intermediate-risk Prostate Cancer



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Clinical Investigation

ASCENDE-RT: An Analysis of Treatment-Related Morbidity for a Randomized Trial Comparing a Low-Dose-Rate Brachytherapy Boost with a Dose-Escalated External Beam Boost for High- and Intermediate-Risk Prostate Cancer



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Clinical Investigation

ASCENDE-RT: An Analysis of Health-Related Quality of Life for a Randomized Trial Comparing Low-Dose-Rate Brachytherapy Boost With Dose-Escalated External Beam Boost for High- and Intermediate-Risk Prostate Cancer



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BRACHYTHERAPY

Brachytherapy 17 (2018) 837-844

Prostate

Using a surgical prostate-specific antigen threshold of >0.2 ng/mL to define biochemical failure for intermediate- and high-risk prostate cancer patients treated with definitive radiation therapy in the ASCENDE-RT randomized control trial

W. James Morris*, Tom Pickles1, Mira Keyes1

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Prostate cancer

Trial of radioactive implants offers improved prostate cancer survival

Treatment using permanently implanted radioactive 'seeds' doubles rates of fiveyear tumour-free survival compared with conventional high-dose radiotherapy



Scientists in Canada say low-dose-rate prostate brachytherapy has been more successful than dose-escalated external beam radiotherapy. Photograph: Jeff Pachoud/AFP/Getty

A prostate cancer treatment using permanently implanted radioactive "seeds" doubles rates of five-year tumour-free survival compared with conventional highA trial comparing the treatment with dose-escalated external beam radiotherapy found that it was much more successful at banishing cancer.

Men who underwent LDR-PB were twice as likely to be cancer-free five years later.

Scientists studied 398 men with cancer that had not spread outside the prostate gland who were judged to be at high risk of treatment failure based on standard test results.

Lead researcher Professor James Morris, from Vancouver Cancer Centre in Canada, said: "At five years follow-up, we saw a large advantage in progression-free survival in the LDR-PB group.

"Although, to date, overall survival and prostate cancerspecific survival do not appear to differ between the two groups, existing trends favour LDR-PB and an overall survival advantage is likely to emerge with longer followup."

ACENDE RT - RTC 400 pts: 12 m ADT + EBRT + LDR PB

Objectives

ASCENDE RT – toxicity

Interpretation can be in the eyes of beholder

What was the cause of higher toxicity

How to move forward

Toxicity management

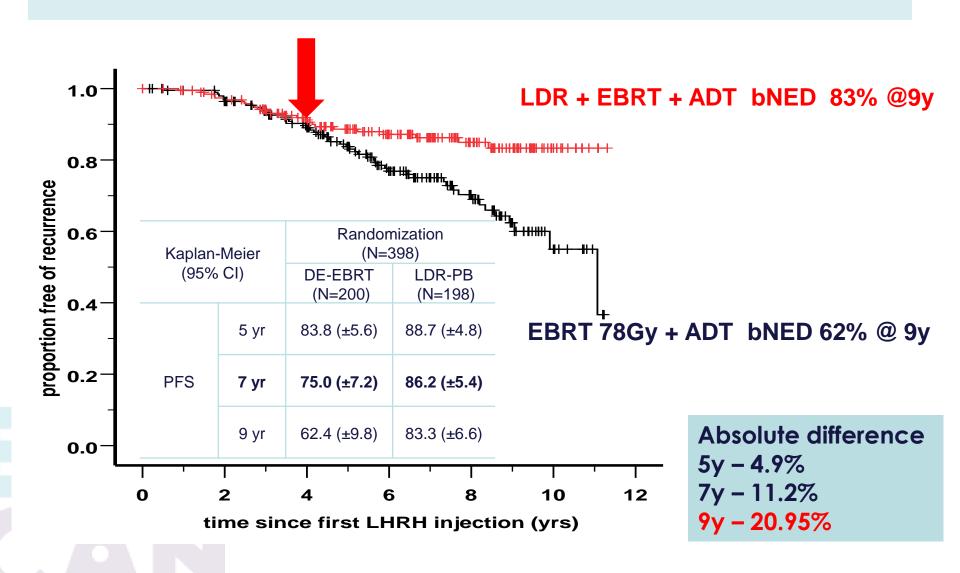
Fistulas and interventions





ASCENDE RT

PSA PFS (Phoenix) at 5y – primary outcome









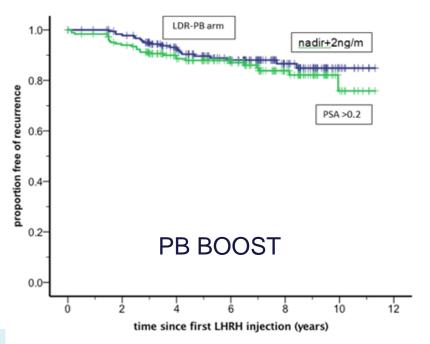
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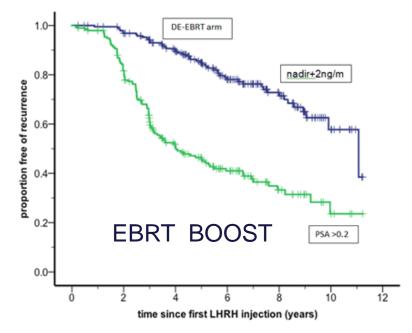
Clinical Professor, Department of Surgery, University of British Columbia, Vancouver, British Columbia, Canada



Numbers at risk:

Time (yrs)	0	2	4	6	8	10
Nadir+2mg/ml	188	177	137	98	55	11
>0.2 ng/mL	188	170	130	96	53	11

ASCENDE RT



Numbers at risk:

Time (yrs)	0	2	4	6	8	10
nadir+2ng/mL	195	181	141	95	53	11
>0.2 ng/mL	195	152	77	46	19	4

Nadir+2 vs. PSA>0.2 definition

BRACHYTHERAPY





BRACHYTHERAPY

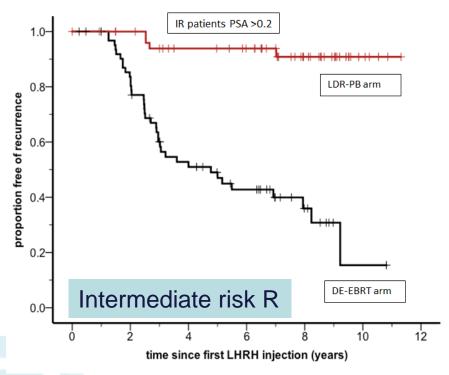
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Prostate

Using a surgical prostate-specific antigen threshold of >0.2 ng/mL to define biochemical failure for intermediate- and high-risk prostate cancer patients treated with definitive radiation therapy in the ASCENDE-RT randomized control trial

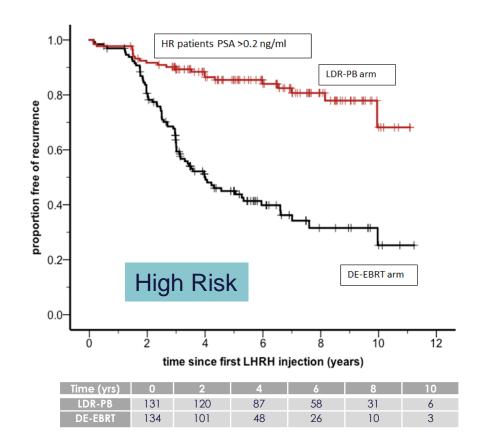
W. James Morris*, Tom Pickles¹, Mira Keyes¹

Clinical Professor, Department of Surgery, University of British Columbia, Vancouver, British Columbia, Canada Radiation Oncologist, Vancouver Cancer Centre, Vancouver, British Columbia, Canada



Time (yrs)	0	2	4	6	8	10
LDR-PB	54	50	41	37	22	4
Numbers at risk:	64	50	28	20	8	-

ACENDE RT



PSA >0.2 failure definition for IR and HR

Clinical Investigation

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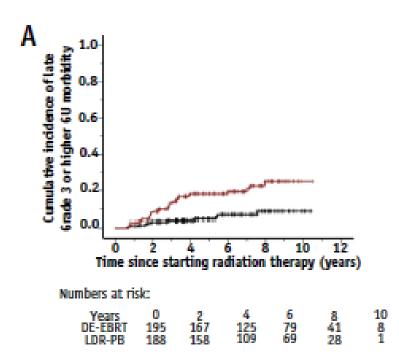
Late Gr 3 GU actuarial stats

В

Percent of patients

LDR 32 – 18% pts

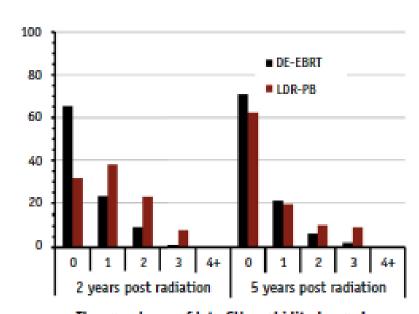
16 urethral strictures



31 pts LDR - 8.6% at 5y

EBRT 13-5% pts

2 urethral strictures



The prevalence of late GU morbidity by grade

10 pts EBRT - 2.2% at 5y

Incontinence - cumulative pad use

LDR - 35 - 16% pads

 $22 \le 2$ pads per day

9 > 2 pads per day

4 total incontinences

EBRT - 12 - 6.1% pads

 $7 \le 2$ pads per day

3 > 2 pads per day

2 total incontinences

Prevalence of pad use at 5 years

LDR 6.5%

EBRT 1.1%

Late catheterization

LDR 12%

EBRT 3%

Predictors for \geq Gr 2 GU toxicity?

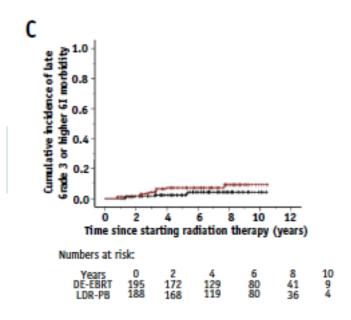
bIPSS > 16 is only predictive factor

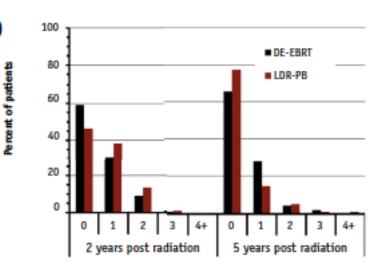
- HR 2.2 for LDR arm
- HR 1.37 EBRT arm (p=NS)

V100 and D90 were not predictive



5years late Gi Gr 3 toxicity





The prevalence of late GI morbidity by grade

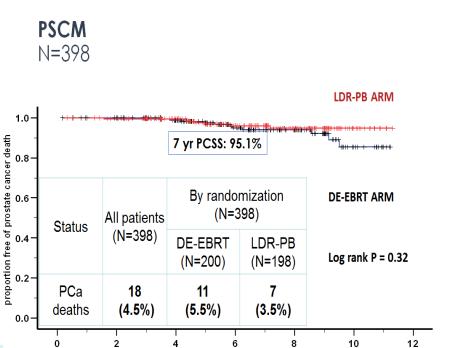
Prevalence - NS

LDR - 2.2%

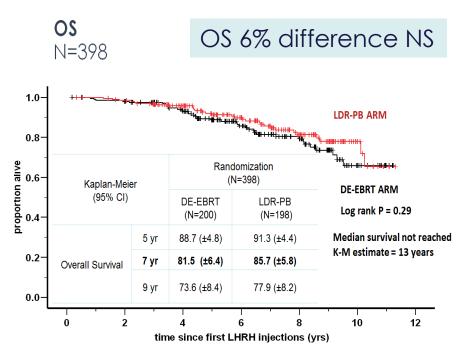
EBRT 1%

OS and PCSM - same

trial not powered to show the difference



time since first LHRH injection (yrs)





ASCENDE RT conclusions:

OS same

• 6% absolute difference p=ns

Mets Free survival - same

- 89 and 85% p=ns
- PB pts had mets early, 2 y after PSA failure failing form occult metastatic disease

PSA failure – 2x higher with EBRT

- 20% absolute difference
- 1% per years for PB arm
- 5% per year form EBRT arm

Toxicity higher in PB arm



ASCENDE RT - toxicity

Toxicity – GU – worse in PB arm

• 5 y cumulative incidence GU 18% vs. 5% - 50% strictures

• 5 y prevalence 8% vs. 2%

Toxicity - GI - NS

• 6 y cumulative incidence - 8 vs. 3%

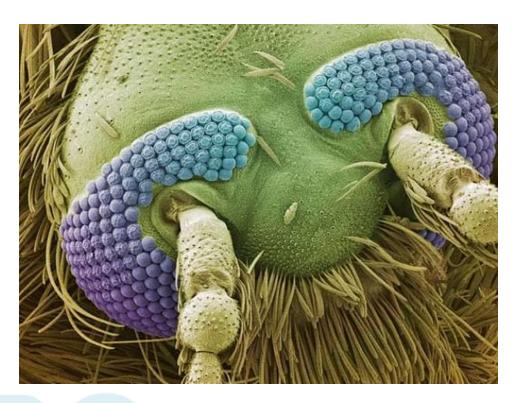
• 5 y prevalence - 1 vs. 2%

EF - 5y - NS

45% for PB and 37% for EBRT

QOL

- Decline in mean scores both arms for physical and sexual
- Function scales, worse with LDR arm



- ASCENDE RT toxicity
 Very high?
- What went wrong?
- How dose it compare with HDR and with Surgery?
- What can be done to reduce it?

Toxicity Scale

ASCENDE RT
Modified LENT- SOMA

Catheterization Gr3
Stricture any Gr3

CTCAE V3 or V4

Catheterization Gr2 (<6w) Stricture Gr1, Gr2, or G3

if altered organ function

- Toxicity scales differ
- Mostly reported as prevalence not a cumulative incidence
- RTC reporting is more strict than in institutional reporting
 - Is having a stricture and dilatation reason to abandoned curative treatment?
 - Is surgery providing better QOL?

What went wrong? Imaging and Planning

Old US units
Poor images of Apex
115Gy
Large V150%
Planned large inf. margins

OR skills

Improvement:

New US units

Excellent imaging

MRI Imaging

Dose painting

Dose conformity at the apex

<110Gy? (100- 105Gy)

OR skills
EBRT Volume?

Comparisons of GU and GI morbidity between ASCENDE-RT limited by differences in morbidity scoring systems, follow-up, eligibility, pelvic vs. prostate-only EBRT, and the duration of ADT.

LDR - ASCENDE RT

Gr3 – 18% Strictures - 9%

HDR - Hoskins

Gr3 - 30%

Strictures – 13%

Not diff between arms

TROG RADAR trial

Stricture 13%

HDR/Ir boost Gr3 - **13%**

RTOG 2032 LDR + EBRT

Overall gr 3: 12% vs 7%

GU: 7% vs 3%

RT - EBRT+ PB

Gr3 20-30% Strictures ~8-13% Protect

ORIGINAL ARTICLE

Patient-Reported Outcomes after Monitoring, Surgery, or Radiotherapy for Prostate Cancer

J.L. Donovan, F.C. Hamdy, J.A. Lane, M. Mason, C. Metcalfe, E. Walsh, J.M. Blazeby, T.J. Peters, P. Holding, S. Bonnington, T. Lennon, L. Bradshaw, D. Cooper, P. Herbert, J. Howson, A. Jones, N. Lyons, E. Salter, P. Thompson, S. Tidball, J. Blaikie, C. Gray, P. Bollina, J. Catto, A. Doble, A. Doherty, D. Gillatt, R. Kockelbergh, H. Kynaston, A. Paul, P. Powell, S. Prescott, D.J. Rosario, E. Rowe, M. Davis, E.L. Turner, R.M. Martin, and D.E. Neal, for the ProtecT Study Group*

Ac Gr 3 - 6%

- CVS events
- Transfusion >3units
- Anastomosis, rectal injury

Surgical Complications

Gr 3 RTC RP vs LDR

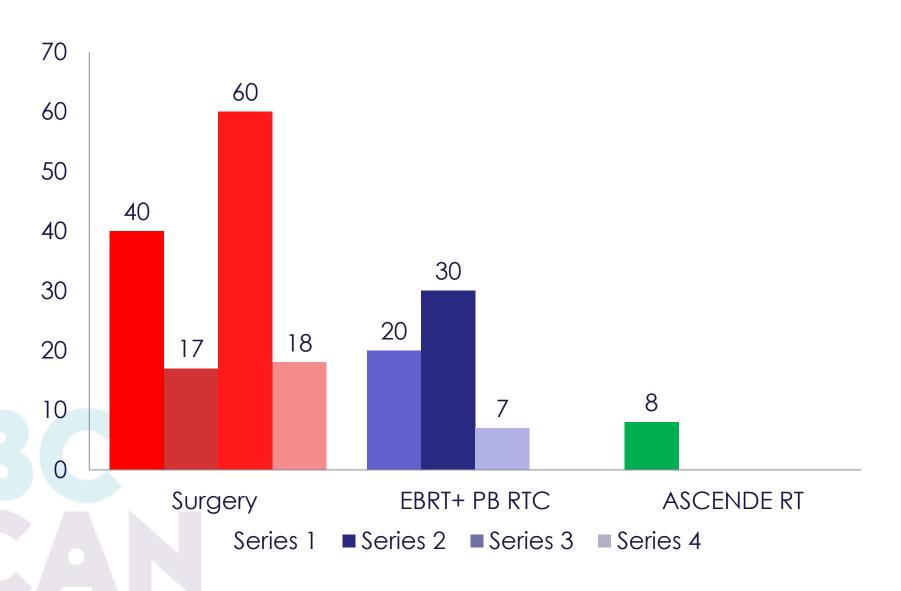
RP Incontinence 18%, Stricture 6.5% PB 2.5%

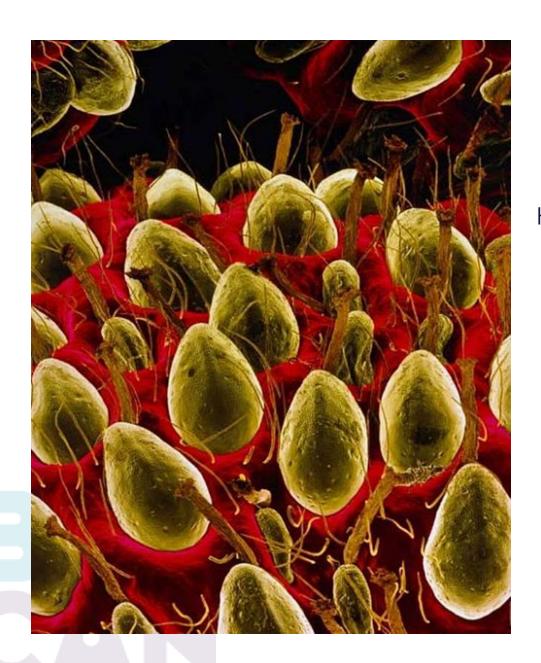
Incontinence RP RTCs

PIVOT NEJM 2017 40%
PROTECT NEJM 2017 17%
PCOS NEJM 2013 18%
SPCG RTC NEJM 2013 60%



Prevalence of Gr 3 toxicity with surgery vs EBRT + PB data from RTCs





Planning

How to avoid strictures

76 male

2011

TURPx2 2003 IR GS 4+3, PSA 9 LDR - 2011

2012

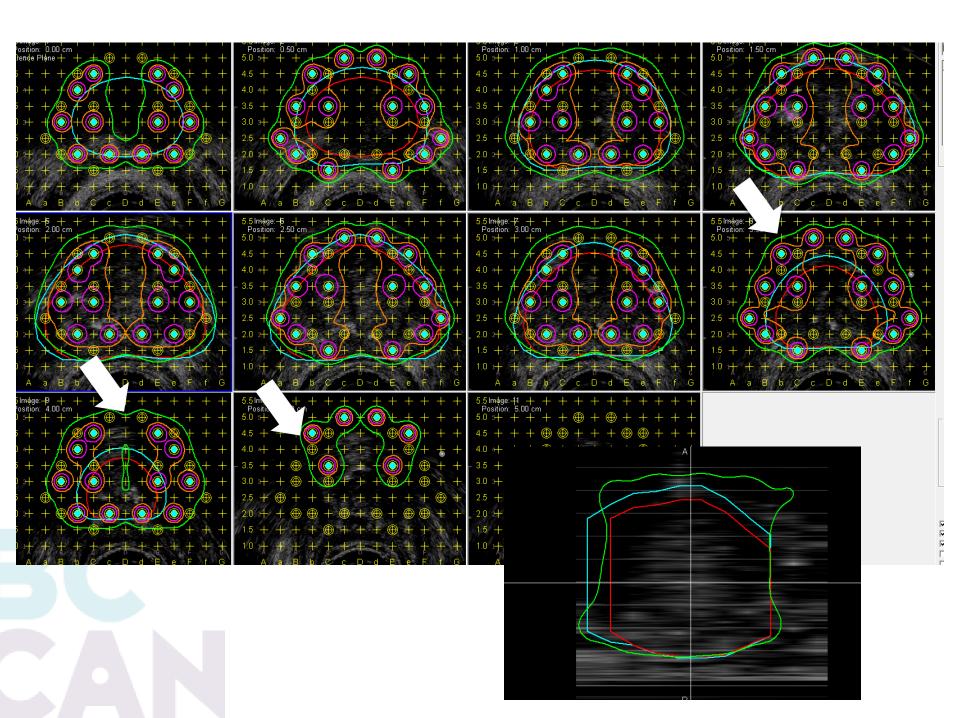
++ urinary symptoms
Hematuria
Infection
Stricture
Blood per rectum

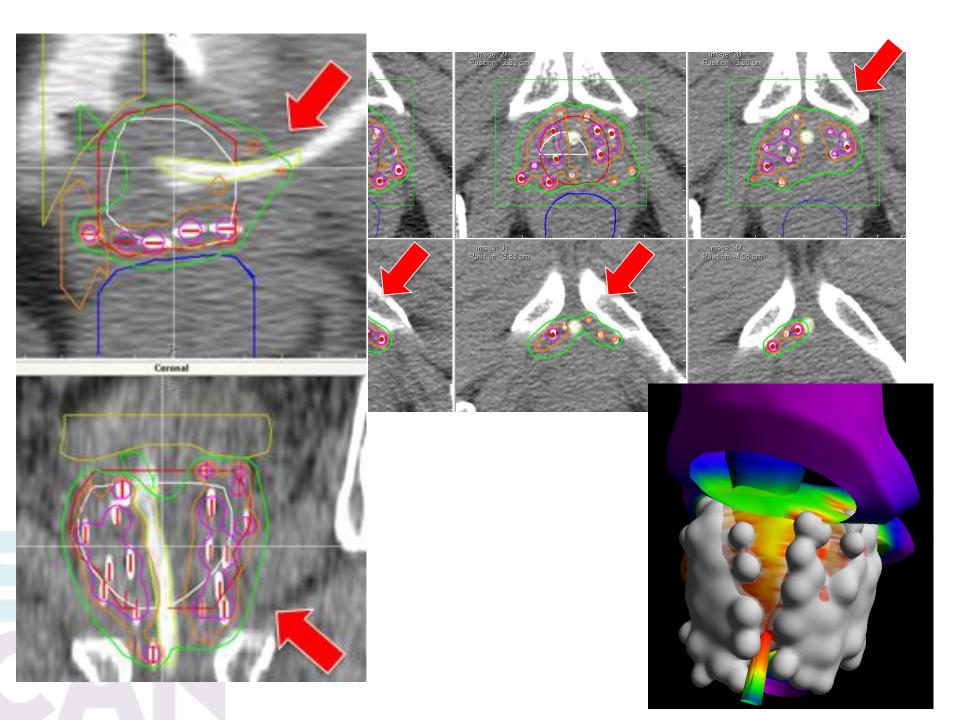
2018

Age 83
Self catheterize x2 day
Incontinent
Oncoming urinary symptoms
Rectal bleeding

- Severe telangiectasia
- PSA going up

Formal QA requested





76 male

2014

70yold

GS 4+4, (4/10cores)

PSA 8

DRE - ?T3a

ADT + EBRT + PB

2015-2018

++ urinary symptoms
Urinary and fecal Incontinence
ED

2018

PSA 0.32

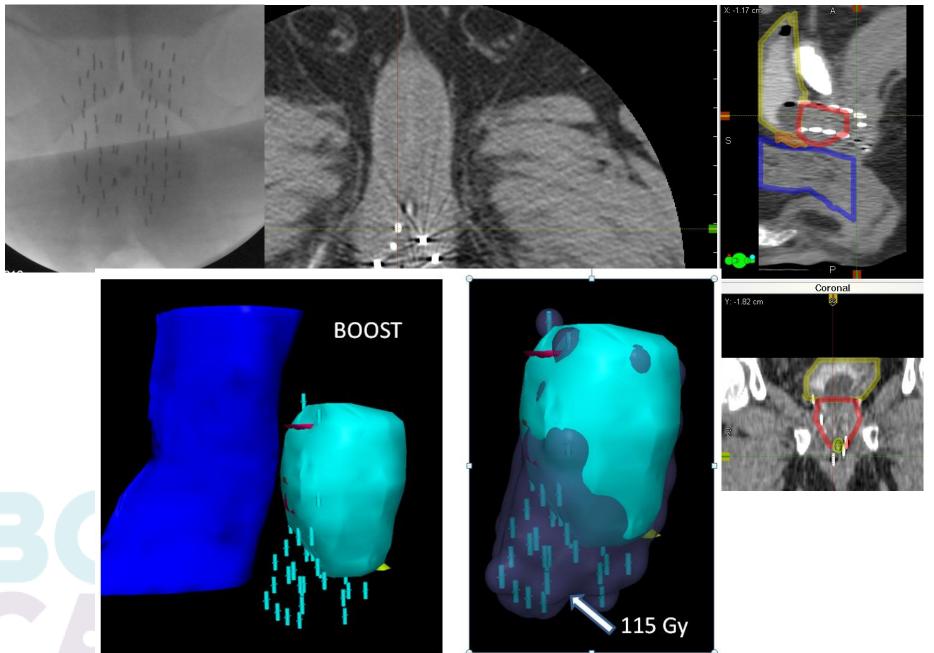
HBO

Urinary obstruction

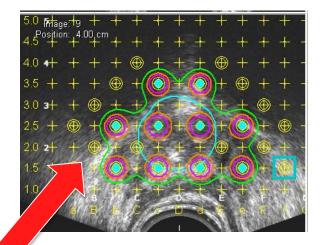
Hematuria

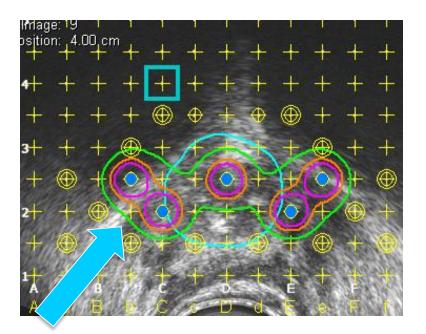
Formal QA requested

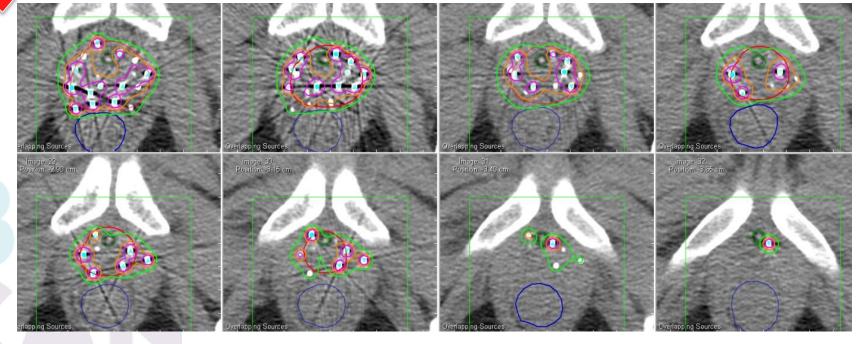
BCCA 1332840

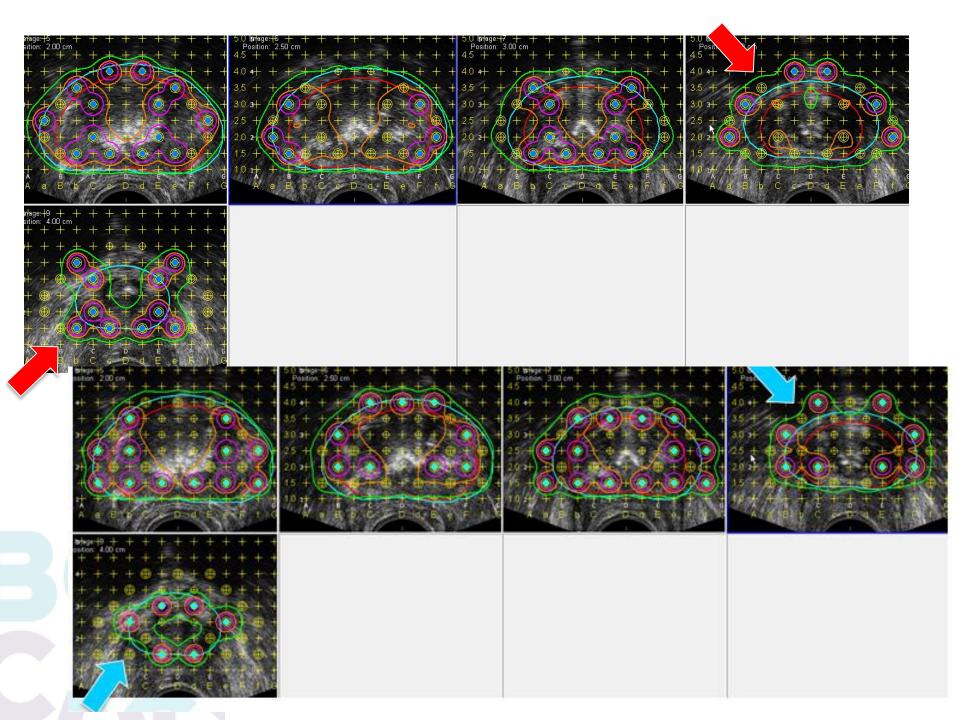


APEX









Boost case 2016

2016 – 60y man

High Tier IR

April 2016

EBRT + PB boost

No ADT

2018

IPSS 3,

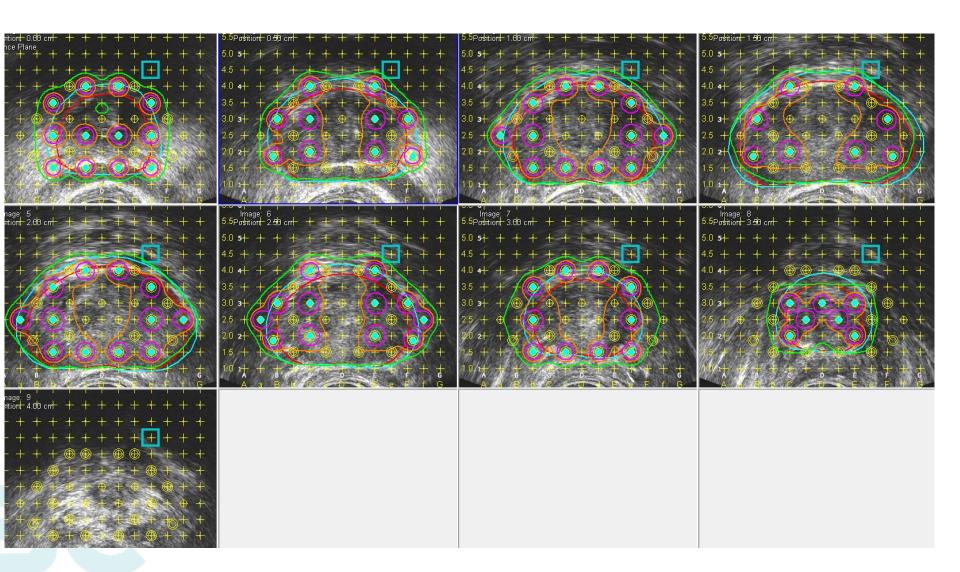
Bowel normal.

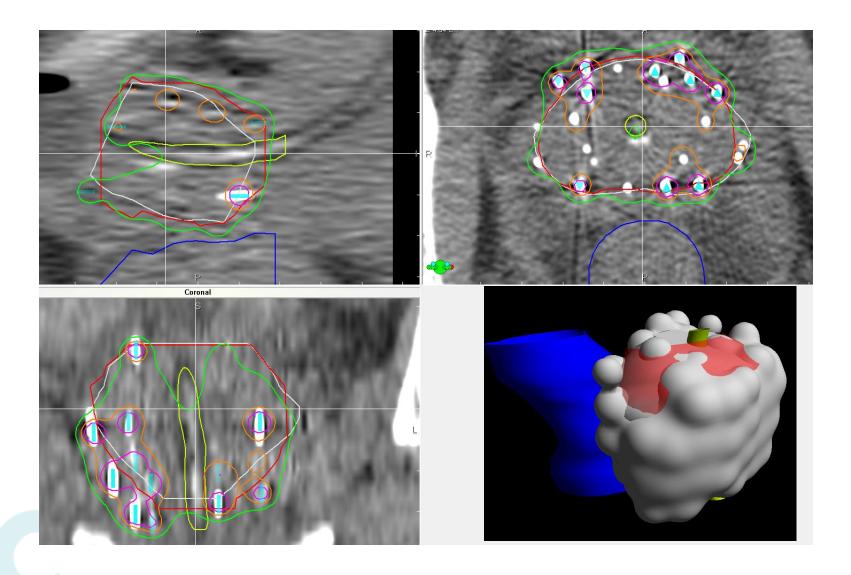
SHIM 24/25

PSA April 2017 - 0.23

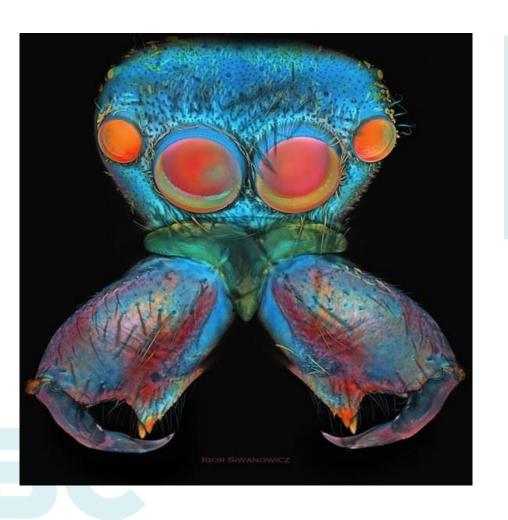
PSA Jan 2018 - 0.18







V100 - 92% VR100 -0.00cc UD50 - 100Gy



Toxicity study in progress

No evidence of association between structures and large confluent volumes below apex

Side effects

Spider head

Contraindications

Absolute

Life expectancy <10y Large TURP defect ATM

Good urinary function

Relative

IPSS > 20

Poor max flow rates

Previous pelvic RT

TURP

Large median lobe

IBD

>60-70cc

S.J. Frank Brachytherapy 2011 Pai - Brachytherapy 2012, J Urology 2015 Keyes IJROBP 2014 Crook IJROBP 2009 Davis, Brachytherapy 2012



BRACHYTHERAPY



Brachytherapy ■ (2012) ■

Toxicity after ¹²⁵I prostate brachytherapy in patients with inflammatory bowel disease

Howard H. Pai^{1,2,3,*}, Mira Keyes^{2,3}, W. James Morris^{2,3}, Jennifer Christie⁴

¹Radiation Oncology Program, British Columbia Cancer Agency—Vancouver Island Centre, Victoria, British Columbia, Canada ²Provincial Prostate Brachytherapy Program, British Columbia Cancer Agency, Vancouver, British Columbia, Canada ³Department of Surgery, Faculty of Medicine, University of British Columbia, Vancouver, British Columbia, Canada ⁵Department of Biochemistry, University of Victoria, Victoria, British Columbia, Canada

26/3200 LDR med fu 4.3 years had IBD

13 IBD, 3 CD, 10 UC.

Acute Gr 3/4 - 3 pts Late G gr 3/4 - 3 pts

3 pts with severe acute GI toxicity had rectal biopsies 3 m post implant

5 Pts with Gr3/4 toxicity Rectal dose

 $3 \ge Gr2V100 > 1 cc (2.7 - 4.2 cc)$ 2 pts had V100 of 0.00 cc.

major surgery with IBD 2/26 major surgery without IBD 4/3500

Rectal Ulcers and Rectoprostatic Fistulas after ¹²⁵I Low Dose Rate Prostate Brachytherapy

Nelson Leong, Howard H. Pai,* W. James Morris,† Mira Keyes, Tom Pickles, Scott Tyldesley, Jonn Wu and British Columbia Cancer Agency

From the British Columbia Cancer Agency, Vancouver Island Centre (NL, HHP), Victoria and British Columbia Cancer Agency, Vancouver Centre and Department of Radiotherapy and Developmental Radiotherapeutics, University of British Columbia (HHP), Vancouver (WJM, MK, TP, ST, JW), British Columbia, Canada

Rectal Ulcers and Fistulas

4,690 pts (1998 – 2013) Med fu 53 months

9 rectal ulcers (0.19%) and 12 cases of fistula (6 progressed form ulcers (0.26%)

12 with fistulas,

- 4 Rectal biopsies,
- 5 Urinary interventions (TURP, TUIP, debridement of strictures)
- 3 APC

83% fistulas had some form of urological or rectal intervention.

No fistulas healed without surgical management, 2 died.

Review 238 patients with Gr 2-3 late rectal toxicity.

- **6.7%** APC
- 1.7% Biopsies
- 1.7% Urological interventions.

Surgical Oncology Network Newsletter

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Surgical Oncology Network

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RESEARCH & OUTCOMES EVALUATION Dr. Carl Brown 604-806-8711 cbrown@providencehealth.bc.ca

In This Issue...

Anterior rectal wall biopsy and vigorous APC are associated with recto-urethral fistulas after prostate.....

Position statement from the SON breast tumour group: axillary ultrasound in breast

Fall Update 2017 program

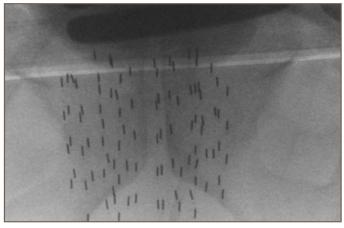
MARK YOUR CALENDARS!

SON FALL UPDATE ON COLORECTAL CANCERS

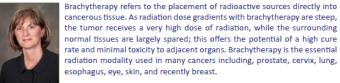
October 14, 2017 Four Seasons Hotel Vancouver

BRACHYTHERAPY

ANTERIOR RECTAL WALL BIOPSY AND VIGOROUS APC ARE ASSOCIATED WITH RECTO-URETHRAL FISTULAS AFTER PROSTATE BRACHYTHERAPY



I-125 PERMANENT PROSTATE IMPLANT



Dr. Mira Keyes Clinical Professor Radiation Oncology Department of Surgery UBC

radiation modality used in many cancers including, prostate, cervix, lung, esophagus, eye, skin, and recently breast.

The "modern" era of LDR (Low Dose Rate) or seed prostate brachytherapy began in the 1980s with the development of trans- rectal US to plan and guide the placement of radioactive sources within the prostate. Prostate

brachytherapy may be used either as monotherapy or combined with

modest doses of external beam, for patients with higher risk disease. Patients treated with any form of brachytherapy had not only superior long-term PSA outcome but also showed remarkable durability of the results with a long follow-up, which may lead to cure in many patients^{1,2}. BCCA Prostate Brachytherapy program is one of the largest in the world, with just over 5800 patinas implanted since 1998. We maintain a large database on all

Vigorous APC for rectal bleeding and biopsies of the anterior rectal wall are associated with very high incidence of rectal ulcers and fistulas in patients treated with prostate brachytherapy and must be avoided if possible.

1.Pai HH, Keyes Brachytherapy 2013,12 2. Leong N, Pai HH, Morris WJ, Keyes M, J.Urol 2016, 195(6)

Urinary toxicity

Acute GU Toxicity

AUR - <5%

IPSS resolution 12 mo

RTOG gr2 ~30%

RTOG gr3 \sim 5% (AUR)

Late GU Toxicity

~10 % do not normalize IPSS to the baseline levels

Gr 2

Actuarial gr 2 30% with >10y - aging?

Prevalence gr 2 < 5% at 10y

Gr3

Actuarial gr3 ~5-10% Prevalence gr3 <2% at 10y Marshall RA, Urol Oncol 2014;32 Stone NN, J Urol 2012;187 Keyes M, IJROBP 2014 Chan E, Brachytherapy 2013

Predictive factors for worse GU toxicity And higher rate of AUR

Baseline IPSS

Large Prostate Volume (no ADT)

Higher D90 > 180Gy / EBRT

AUR

- Higher bladder neck dose
- No Dexamethasone
- Larger TZ
- Post implant edema
- Poor flow rate
- Trauma # needles

Tetsuhiro Ikeda IJ Urology 2009 Martnes Brachytherapy 2006 Keyes IJROBP 2014

Treatment: Ac. Obstructive symptoms

Flomax – 3-6 mo after PB

• 0.4 mg OD –(max 4-5 per day)

Cialis 5 mg qhs

NSAIDS

Flomax and Terazosin together

Dexamethasone

- 4 mg OD x 10days than
- 2 mg OD x10 days

Chronic Obstruction

Good patients selection

- Avoid patients with poor urinary function
- Old age
- Large volume Large medial lobe
- Combination of the above is the worst!

AVOID TURP

TUIP if necessary

Urethral necrosis and Repeated TURP

- Trental 400mg BID Vitamin E 800 IU
- Daily x 4-6 mo
- Be Conservative

Supra-pubic Catheter

• For chr. obstruction

Self catheterisation

For strictures

GI toxicity

RTOG gr2 <5% RTOG gr3 1-2% RTOG gr4 <0.1%

Higher rectal dose

- VR100 >144Gy
- EBRT

Large Prostate Volume

Learning Curve

IBD

Fistulas

- TURP
- Argon Plasma
- IBDs

Keyes at al Brachytherapy 2011
Leong at all sublimed to Urology 2015
S. I. Frank, ACR appropriateness Criteri

S.J. Frank ACR appropriateness Criteria Brachytherapy 2011

Treatment: Rectal symptoms

Gr 1/2 Rectal urgency and frequency

- Proctosedyl supp
- Diet modification
- Lomotil
- Steroid enemas

Rectal bleeding

Observation

- Aron Plasma Coagulation
- HBO
- Formalin enemas

Rectal Pain

• o+B supp

Be conservative LESS IS MORE

- AVOID BIOPSY of ANTERIOR RECTAL Wall
- Avoid APC

Sexual Function

Snyder BJU 2011 Keyes M Brachytherapy 2015 Crook JCO 2011 Masashi Matsushima J Urology 2013

Overall 5 y EF - 50% Young men (<60) EF >80%

Age, **ADT**, hypertension, and aging all have negative impact on long-term EF after LDR.

FIG. 1. Effect of age on potency.

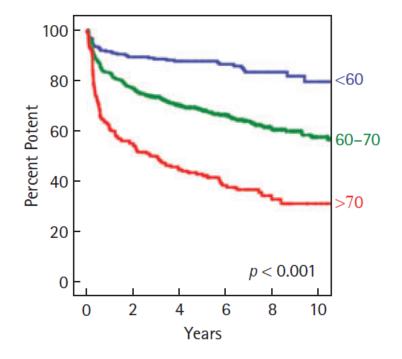
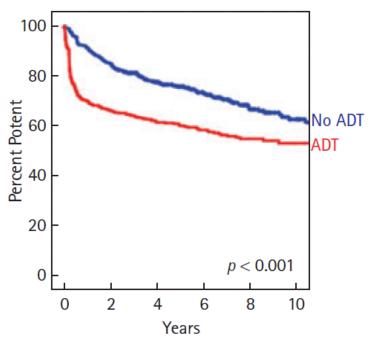


FIG. 3. Effect of ADT on potency.





Brachytherapy ■ (2015) ■

Effect of aging and long-term erectile function after iodine-125 prostate brachytherapy

Mira Keyes^{1,*}, Tom Pickles¹, Juanita Crook², Michael McKenzie¹, Arthur Cheung³, Ingrid Spadinger¹, Vincent LaPointe¹, W. Francois Bachand², James Morris¹

Aging process contributes ~50% to the decline in EF after PB in all age groups

Prevention Treatment

- Avoid ADT
- Avoid large high dose confluent areas below the apex
- Cialis 5 mg daily post op for several months

¹Vancouver Cancer Center, The British Columbia Provincial Prostate Brachytherapy Program, University of British Columbia, British Columbia Cancer

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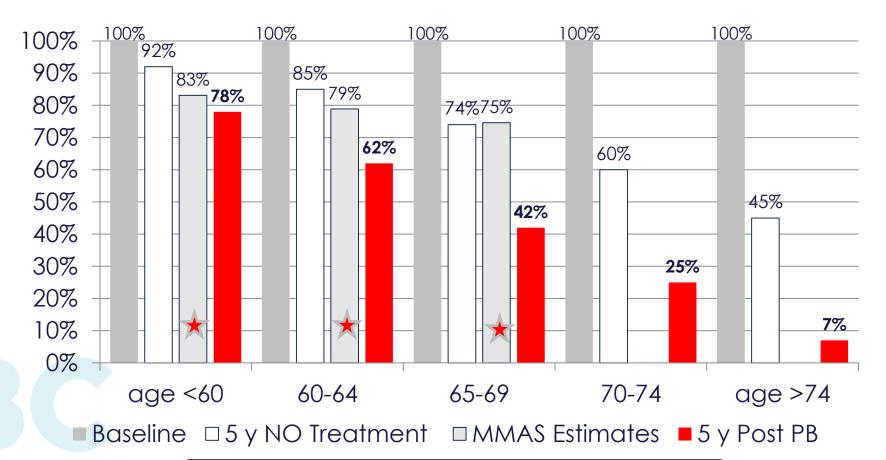
Agency, Canada

Proportional effects of aging on 5y EF decline

100% if EF is normal at baseline **BCCA** pts aging process: without PB

aging process: MMAS prediction **MMAS**

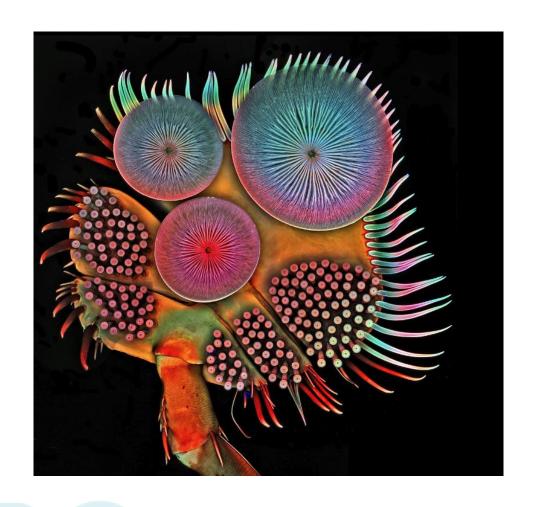
PB effects of treatment





MMAS estimates Aging process contributes ~50% to the decline in EF after PB in all age groups

a linear regression



Male beetle

Almost any dose intensification in oncology has come with a price of higher toxicity

Patient selection

Younger patents

Good life expectancy

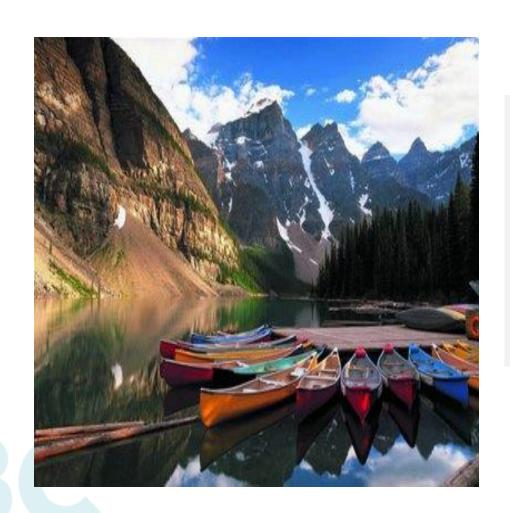
Good urinary function

Planning is critical

OR skills

Conservative management of complications





It is not only what we do, but what we do not do, for which we are accountable Moliere

Thank you!

