UK & Eire Brachytherapy 2018 After the Cure - Urology

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Post Brachytherapy Issues

- Acute AUR
- LUTS Urgency, Frequency, Reduced flow, Nocturia, Dysuria
- Visible Haematuria
- Erectile Dysfunction
- Ejaculatory Change

New Rates of Interventions to Manage Complications of Modern Prostate Cancer Treatment in Older Men

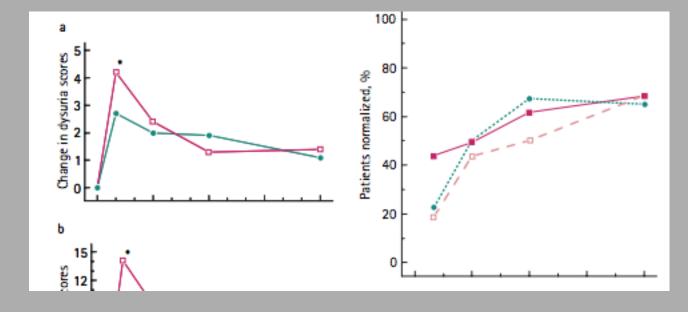
Christopher J.D. Wallis^a, Alyson Mahar^a, Patrick Cheung^b, Sender Herschorn^a, Laurence H. Klotz^a, Ashraf Al-Matar^a, Girish S. Kulkarni^c, Yuna Lee^d, Ronald T. Kodama^a, Steven A. Narod^e, Robert K. Nam^{a,*}

Complication	Radical prostatectomy (total person-years: 100 420)		Radical radiotherapy (total person-years: 311 637)	
	Sum	Incidence density/ 1000 person-years	Sum	Incidence density/ 1000 person-years
Urologic procedures	20 857	242.37	85 155	319,45
Bladder catheterisation	1833	21,30	12 980	48.69
Cystotomy for bladder neck obstruction	335	3,89	3206	10.288
Diagnostic cystoscopy	8015	93.14	27 679	103,83
Endoscopic removal of foreign body/calculus	571	6.64	2642	9.91
Excision of bladder neck	235	2.73	1496	5,61
Hliform/follower urethral dilatation	835	9.70	1073	4.03
Manual catheter irrigation and declotting	1402	16.29	5919	22.20
Prostate biopsy	183	2.13	1620	6.08
TUR bladder neck	1364	15,85	595	2,23

AUR

- Selection and Pre-brachytherapy TUR/BNR
- Generally in first 15 days postop
- Planning to minimise needle number and practicalities of reducing needle insertions
- Even without seeds most TP Biopsy series with 32 core report 2-5% AUR so we are unlikely to further improve
- Majority Self limiting, ISC usually possible

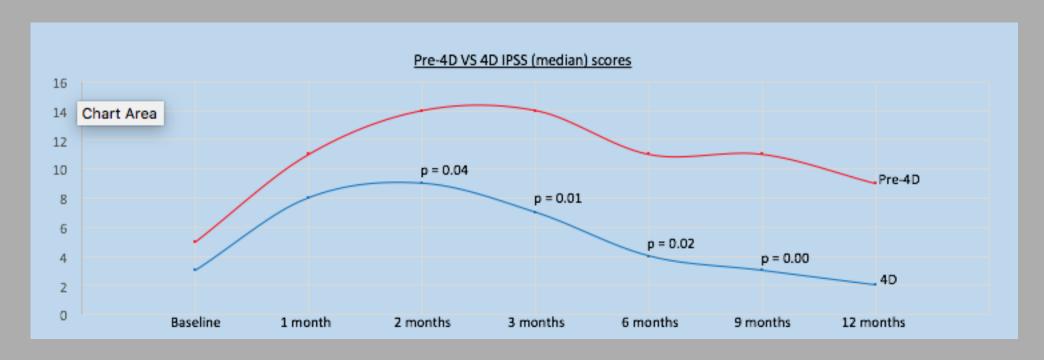
Acute Toxicity



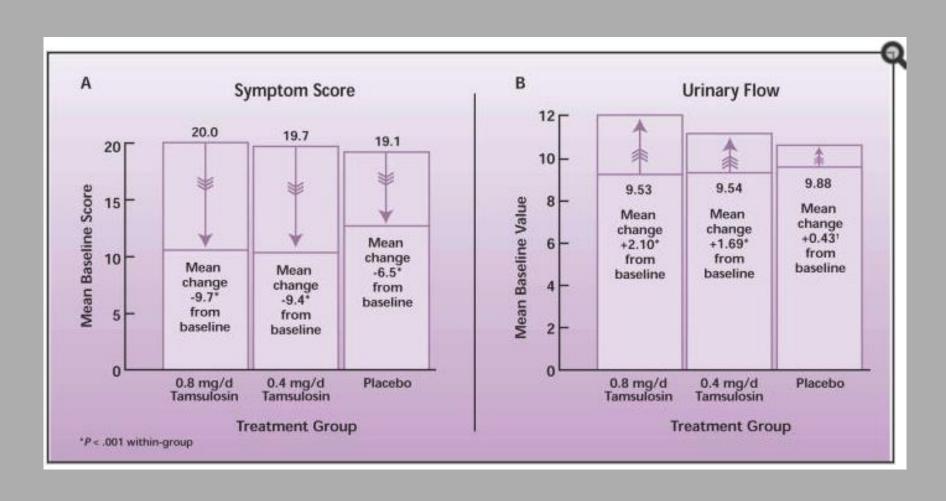
- Dysuria Common 50-80% 4 wk
- Mirrors IPSS Resolution
- Isotope, +EBRT, AD, D90, Urethral dose do not predict for dysuria
- Merrick alpha blockade may reduce severity
- Persistant think stricture

Urgency/Frequency

- Urgency/Frequency
- Often a significant component of early urinary toxicity

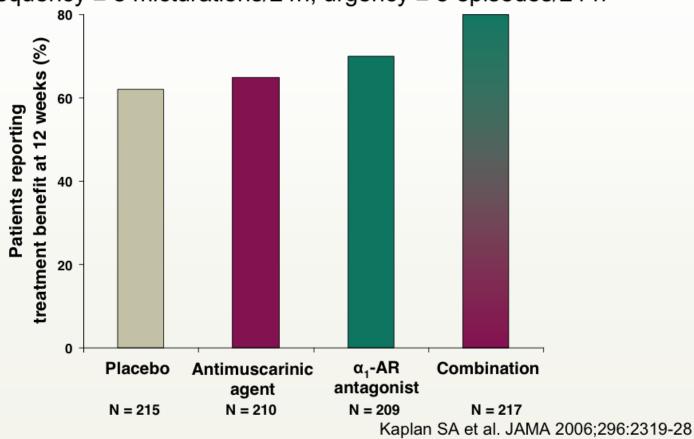


TAMSULOSIN 800mcg?



α₁-AR antagonist + antimuscarinic agent beneficial in patients with LUTS + overactive bladder (OAB) (1)

- IPSS ≥ 12; IPSS QoL ≥ 3
- frequency ≥ 8 micturations/24h; urgency ≥ 3 episodes/24 h



Kaplan et al. JAMA 2006; 15: 2319-28

Monotherapy with Tadalafil or Tamsulosin Similarly Improved Lower Urinary Tract Symptoms Suggestive of Benign Prostatic Hyperplasia in an International, Randomised, Parallel, Placebo-Controlled Clinical Trial

Matthias Oelke a,*, François Giuliano b, Vincenzo Mirone c, Lei Xu d, David Cox d, Lars Viktrup d

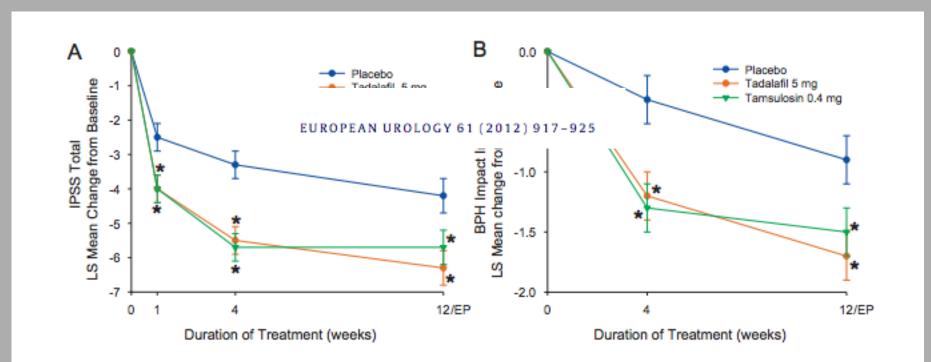


Fig. 3 - Changes from baseline in (A) total International Prostate Symptom Score and (B) Benign Prostatic Hyperplasia Impact Index. Data represent the least squares mean change plus or minus standard error.

LS = least squares; EP = end point; ANCOVA = analysis of covariance.

p < 0.05 versus placebo based on ANCOVA.

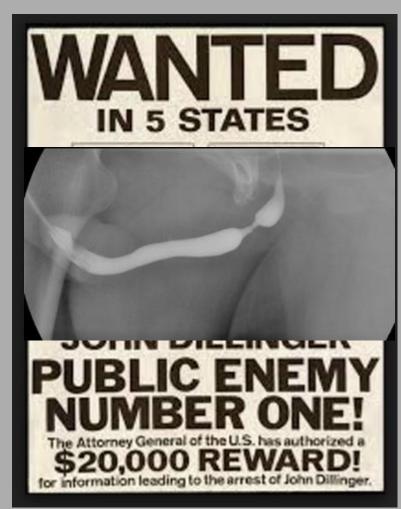
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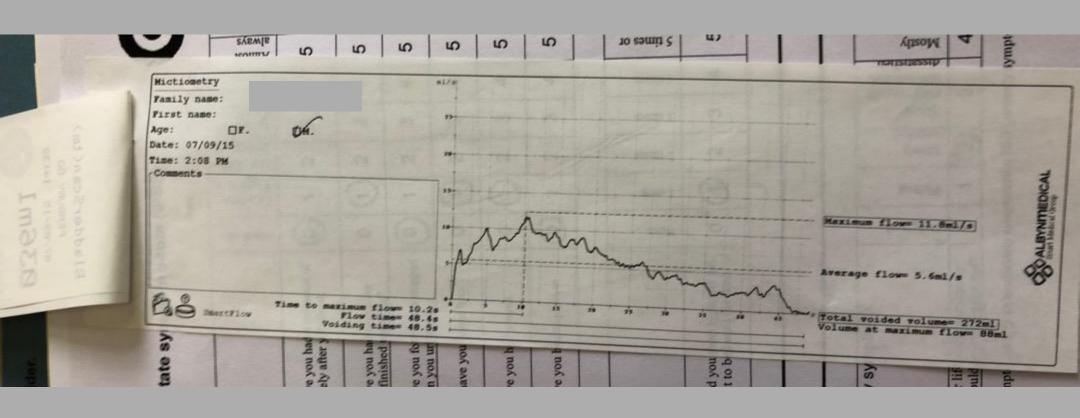
Efficacy of tadalafil for treating chronic prostatitis/chronic pelvic pain syndrome in patients without erectile dysfunction

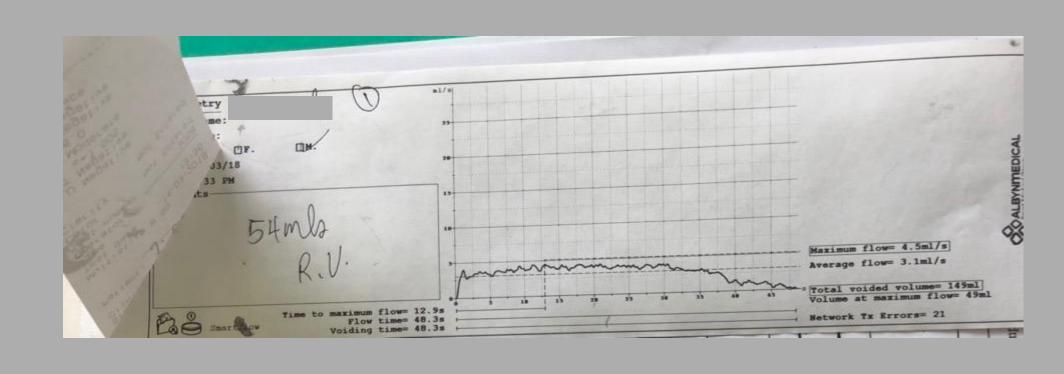
Eur Urol Suppl 2017; 16(3);e453

Late Effects

- I¹²⁵ Seed Monotherapy Tight profile of Late Effects
- Stricture Number 1 Problem 70-80% of late problems, Usually Occur Within 1-3Years
- Haematuria Usually Self limiting
- ED often limited uptake of multimodality treatment
- Pain







Incise or Dilate

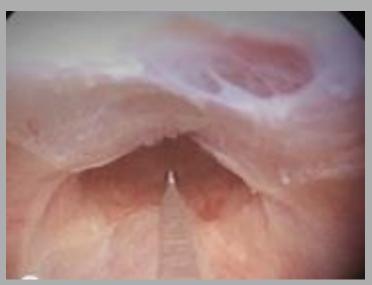
• Combination Probably best

• Intermittent Self Dilation for 12m to maximize benefit

• >12m palliation but may beat redo

Urethral Stricture











Urethral Strictures

Review Article

Investig Clin Urol 2016;57:309-315. http://dx.doi.org/10.4111/icu.2016.57.5.309 pISSN 2466-0493 • eISSN 2466-054X





Urethral strictures after radiation therapy for prostate cancer

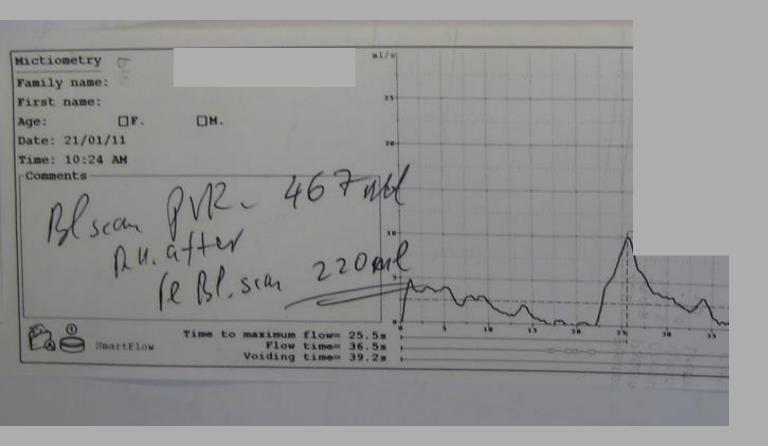
Felix Moltzahn¹, Alan Dal Pra², Marc Furrer¹, George Thalmann¹, Martin Spahn¹

Departments of 1 Urology and 2 Radiation-Oncology, Inselspital Bern, Bern, Switzerland

- If endoscopic management fails Anastamotic or buccal mucosal urethroplasty are options
- 90-day complication rate of 31.4
- Adverse change in continence occurred in 25.7 % of patients (13.3 % in those without prior TURP)
- New ED 30-40%
- UCL Not keen

Beware the 'Atypical Stricture'

- 2nd Malignancy is rare but does occur (<0.1 % Monotherapy LDR)
- Usually in bladder base
- Often occlusive tissue and flat
- False reassurance of undetectable PSA

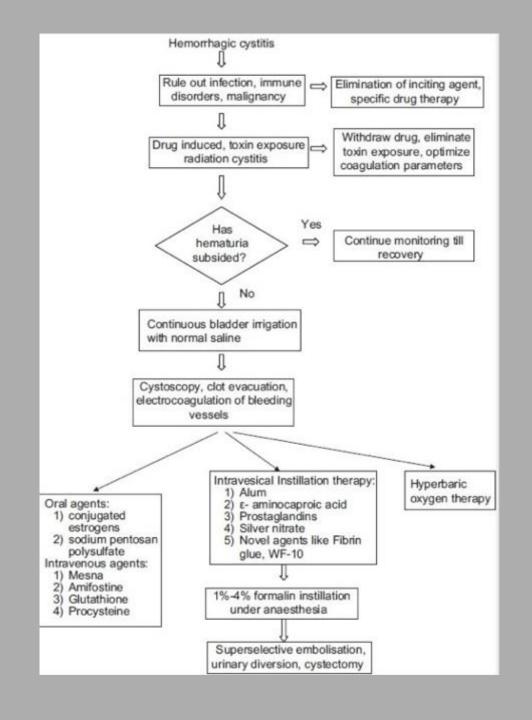


Visible Haematuria

Combined Treatment including EBRT Increases
 Risk

• Bladder Cancer may have worse prognosis in the post RT group (Peak Incidence 5-15 years)

• Co-administration or oral anticoagulation most predictive RF



Pain Management

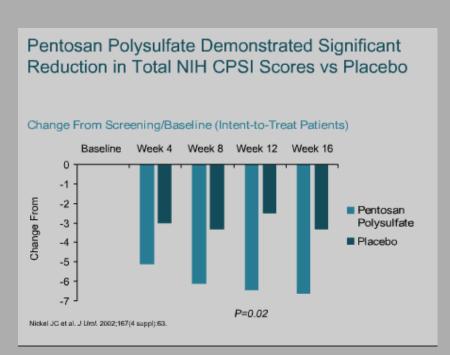
- Define What (Dysuria, Rectal Pain, Ache)
- Associations with filling and voiding
- Diagnose GA Cystoscopy and Dilate often helps even if stricture not seen
- Manage
- Simple Analgesia (Ibuprofen Nocturia)
 Amitriptyline 10mg OD ->75mg OD
 Pregabalin
- Caffeine and Alkaline diet some help

NIH Chronic Prostatitis Symptom Index (NIH-CPSI)

Pain or Discomfort			6. How often have you had to urinate again less than 2		
1. In the last week, have you experienced any pain or			hours after you finished urinating, over the last week?		
discomfort in the following areas?	Yes	No	n Not at all		
a. Area between rectum and testicles			1 Less than 1 time in 5		
(perineum)	0,	D ₀			
b. Testicles	0	ο.	3 About half the time		
c. Tip of the penis (not related to	o.	□.	4 More than half the time		
urination)	1000	700	Almost always		
d. Below your waist, in your	\Box_1	□.			
pubic or bladder area	100		Impact of Symptoms		
			7. How much have your symptoms kept you from doing		
2. In the last week, have you experienced:	Yes	No	the kinds of things you would usually do, over the last		
a. Pain or burning during urination?	O ₁	٥,	week?		
b. Pain or discomfort during or after	\Box_i	D.	□ o None		
sexual climax (ejaculation)?	1000		Only a little		
NO			2 Some		
3. How often have you had pain or discomfort in any of			□3 A lot		
these areas over the last week?		.,	-3		
□ o Never			8. How much did you think about your symptoms, over		
☐ 1 Rarely			the last week?		
☐₂ Sometimes			□ None		
Often			Only a little		
Usually			□ ₂ Some		
☐ 5 Always			□3 A lot		
4. Which number best describes your AVE	RAGED	ain or	Quality of Life		
discomfort on the days that you had it, over the last week?			9. If you were to spend the rest of your life with your		
010203040506070809010			symptoms just the way they have been during the last		
NO PAIN PAIN AS BAD AS			week, how would you feel about that?		
YOU CAN IMAGINE		GINE	□ 0 Delighted		
			☐ , Pleased		
Urination			☐ 2 Mostly satisfied		
5. How often have you had a sensation of not emptying			Mixed (about equally satisfied and dissatisfied)		
your bladder completely after you finished urinating,			☐ Mostly dissatisfied		
over the last week?			Unhappy		
□ 0 Not at all			☐ a Terrible		
Less than 1 time in 5					
2 Less than half the time					
3 About half the time			Scoring the NIH Chronic Prostatitis Symptom		
☐ 4 More than half the time			Index Domains		
☐ 5 Almost always			Pain: Total of items 1a, 1b, 1c, 1d, 2a, 2b, 3, and 4 =		
			Urinary Symptoms: Total of items 5 and 6 =		
			Quality-of-Life Impact: Total of items 7.8 and 9 =		

Other Options





Beware your friends



Questions? New Resources? Contact?

