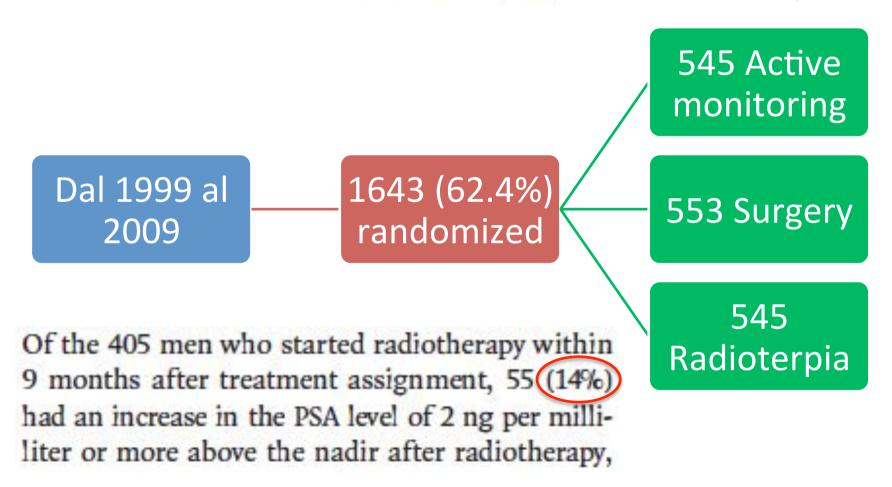


10-Year Outcomes after Monitoring, Surgery, or Radiotherapy for Localized Prostate Cancer of MEDICINE

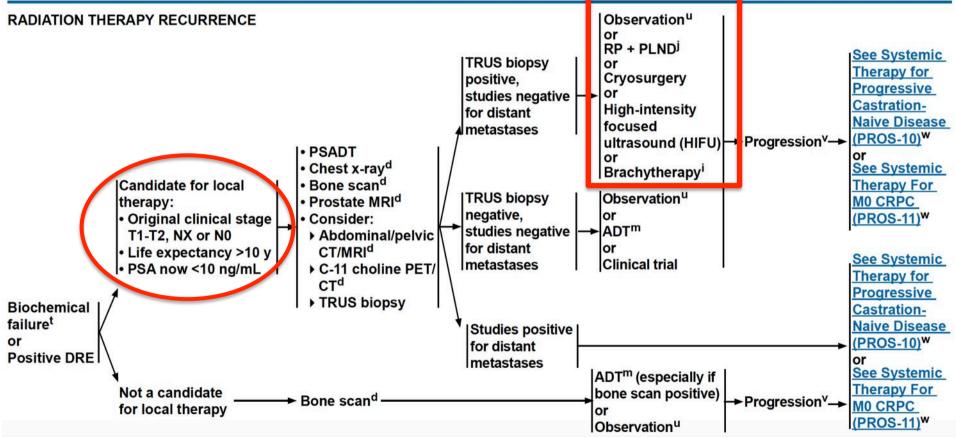
F.C. Hamdy, J.L. Donovan, J.A. Lane, M. Mason, C. Metcalfe, P. Holding, M. Davis, T.J. Peters, E.L. Turner, R.M. Martin, J. Oxley, M. Robinson, J. Staffurth, E. Walsh, P. Bollina, J. Catto, A. Doble, A. Doherty, D. Gillatt, R. Kockelbergh, H. Kynaston, A. Paul, P. Powell, S. Prescott, D.J. Rosario, E. Rowe, and D.E. Neal, for the ProtecT Study Group*





NCCN Guidelines Version 2.2017 Prostate Cancer

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Discussion



EAU - ESTRO - ESUR - SIOG Guidelines on

Prostate Cancer

6.9.6.2 Summary of salvage radical prostatectomy

In general, SRP should be considered only for patients with low comorbidity, a life expectancy of at least ten years, a pre-SRP PSA < 10 ng/mL and biopsy Gleason score ≤ 7, no LN involvement or evidence of distant metastatic disease pre-SRP, and who's initial clinical staging was T1 or T2 [701]. A meta-regression analysis suggested that SRP may be associated with worse continence outcomes than non-surgical approaches [707].

Recommendations for biochemical recurrence after radiotherapy			
Treat highly selected patients with localised PCa and a histologically proven local recurrence	3	В	
with salvage radical prostatectomy (SRP).			
Due to the increased rate of side effects, perform SRP in experienced centres.	3	Α	
Offer/discuss high intensity focused ultrasound, cryosurgical ablation and salvage		В	
brachytherapy to/with patients without evidence of metastasis and with histologically proven			
local recurrence. Inform patients about the experimental nature of these approaches.			











Underutilization of local salvage therapy after radiation therapy for prostate cancer¹

Henry Tran, M.D.^a, Jaime Kwok^a, Tom Pickles, M.D.^b, Scott Tyldesley, M.D.^b, Peter C. Black, M.D.^{a,*}

^a Department of Urologic Sciences, University of British Columbia, Vancouver, Canada ^b Department of Radiation Oncology, Vancouver Cancer Center, BC Cancer Agency, Vancouver, Canada

Urologic Oncology: Seminars and Original Investigations 32 (2014) 701-706

Objective: To evaluate the rates at which patients are offered and receive local salvage therapy (LST) after failure of primary radiotherapy for localized prostate cancer, as it is the only potentially curative treatment for localized recurrence but appears to be underutilized when compared with androgen-deprivation therapy (ADT) or observation.

Materials and methods: Patients with localized prostate cancer who received primary radiotherapy with curative intent between 1999 and 2000 were identified in the British Columbia Tumour Registry. Exclusion criteria included patient age >72 years, prostate-specific antigen >40 ng/ml, and clinical stage T4 at diagnosis. Data on clinicopathologic features, primary therapy, prostate-specific antigen kinetics, and salvage therapy were collected retrospectively. Radiation failure was defined as biochemical recurrence according to the Phoenix criteria or by initiation of salvage therapy.

Results: Of 1,782 patients treated in the study period, 1,067 met inclusion criteria. Of these, 257 failed radiation therapy. Radiation therapy failure was managed with observation (>12 mo) in 126 patients and ADT in 119. Of the observed patients, 66 subsequently received ADT. Five patients (1.8%) received LST (3 radical prostatectomy and 2 brachytherapy).

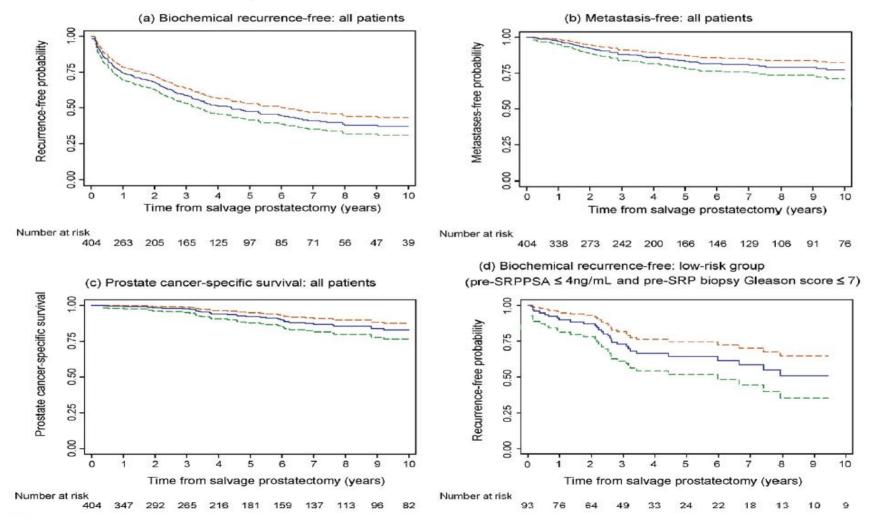
Conclusions: Only 2% of patients relapsing after radiation therapy for localized prostate cancer received LST. Although the benefits of LST are unproven, these findings reveal a possible underutilization of LST and indicate a need for enhanced collaboration between specialties to optimize care of this challenging cohort.

Salvage Radical Prostatectomy for Radiation-recurrent Prostate Cancer: A Multi-institutional Collaboration

Chade DC et al. Eur Urol. 2011 August; 60(2): 205–210.

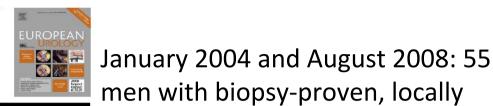
Design, setting, and participants—This is a retrospective, international, multi-institutional cohort analysis. There was a median follow-up of 4.4 yr following SRP performed on 404 men with radiation-recurrent PCa from 1985 to 2009 in tertiary centers.

Intervention—Open SRP.



available at www.sciencedirect.com
journal homepage: www.europeanurology.com





Prostate Cancer

Prognostic Parameters, Complications, and Oncologic and Functional Outcome of Salvage Radical Prostatectomy for Locally Recurrent Prostate Cancer after 21st-Century Radiotherapy

Axel Heidenreich a,b,*, Stephanie Richter b, David Thüer b, David Pfister a,b

b Department of Urology, University of Cologne, Cologne, Germany

Characteristics	Before RT	Before SRP
Clinical TNM		
≤cT2b	39 (70.9%)	44 (80%)
≥cT3a	16 (29.1%)	11 (20%)
Median no. of biopsies	8 (6–22)	10 (8-24)
Biopsy Gleason score		
≤6	34 (61.8%)	37 (67.3%)
7	17 (30.9%)	8 (14.5%)
8-10	4 (7.3%)	10 (18.1%)
PSA		
<10 ng/ml	29 (52.7%)	45 (81.8%)
10.1-20 ng/ml	11 (20%)	10 (18.2%)
>20 ng/ml	15 (27.3%)	0
Androgen deprivation		
Neoadjuvant	12 (21.8%)	0
Adjuvant	0	0

PSA = prostate-specific antigen; RT = radiotherapy; SRP = salvage radical prostatectomy.

Table 2 – Pathohistologic findings of the salvage radical prostatectomy specimens

recurrent PCa underwent Salvage

Radical Prostatectomy and lymph

node dissection after radiotherapy.

Variable	n
Pathologic stage	
pT2a-c pN0 SM-	31 (71.1%)
pT2a-c pN0 SM+	1 (2.2%)
pT3a pN0 SM-	3 (6.7%)
pT3a pN1 SM-	1 (2.2%)
pT3a pN1 SM+	1 (2.2%)
pT3b pN0 SM+	1 (2.2%)
pT3b pN1 SM+	2 (4.4%)
pT3b pN1 SM-	5 (11.1%)
Total PSMs	5 (11.1%)
Total lymph node metastases	9 (20%)
Specimen Gleason score	
≤6	15 (33.3%)
7	21 (46.7%)
8–10	9 (20%)
PSM = positive surgical margin.	

^a Department of Urology, RWTH University Aachen, Aachen, Germany

Continence

- 19 (34.5%) at the time of discharge.
- 34 (61.8%) at 3 mo postoperatively.
- 44 (80%) at 1 yr postoperatively.
- 11 (20%) remained incontinent.

Restoration of continence strongly correlated with the type of previous RT:

• 9.5% patients following seed implantation, 21.1% and 33% patients following EBRT or EBRT plus brachytherapy, respectively, remained incontinent.

EF

15 (26.7%) men with unimpaired preoperative erections underwent nerve sparing prostatectomy.

- 4 men had a preservation of EF.
- 6 of 15 (40%) patients achieved erections with the use of PDE5-Is.

45 of 55 (81.8%) patients remained impotent.

Oncological outcomes

The median follow-up 23 mo:

None patients

- died as a result of PCa or other non-cancer-related causes.
- had asymptomatic or symptomatic local recurrences.
- of the good-risk group developed biochemical recurrence (BCR) or clinical recurrences.

7 (35%) patients in the poor-risk group developed recurrences.

5 men experienced PSA progression after a median follow up of 12 mo.

2 patients (4.4%) developed bone metastases (received LHRH analogues).





Cancer Control and Complications of Salvage Local Therapy After Failure of Radiotherapy for Prostate Cancer: A Systematic Review

Arti Parekh, BA, Powell L. Graham, AB, and Paul L. Nguyen, MD

The National Comprehensive Cancer Network guidelines currently endorse salvage local therapy as a reasonable alternative to observation or androgen-deprivation therapy for select men with a biopsy-proven local recurrence after definitive radiation for prostate cancer. Patients being considered for salvage therapy should have had localized disease at presentation, a prostate-specific antigen < 10 at recurrence, a life expectancy > 10 years at recurrence, and a negative metastatic workup. In this systematic review, we synthesize the current literature describing the oncologic efficacy and toxicity profile of salvage brachytherapy, prostatectomy, cryotherapy, and high-intensity focused ultrasound. We found 5-year biochemical control rates to be similar across treatments, in the range of 52%-56%, although patient selection and definition of failure was variable. Toxicity profiles were also distinct between local salvage modalities.

Semin Radiat Oncol 23:222-234 © 2013 Elsevier Inc. All rights reserved.

Current National Comprehensive Cancer Network (NCCN) guidelines endorse the use of salvage local therapy consisting of:

- radical prostatectomy
- brachytherapy
- cryotherapy
- high-intensity focused ultrasound (HiFU).

Selected PubMed studies between January 1, 1990 and September 1, 2011.



Total Included

- 24 prostatectomy
- 13 brachytherapy
- 16 cryotherapy
- 7 HIFU

Table 5 Toxicity and 5-year FFS by Salvage Therapy Type FFS: failure-free survival

Salvage Therapy	Incontinence	Bladder Neck Stricture	Fistula
Brachytherapy	6.16%	7.48%	3.09%
Prostatectomy	49.69%	26.09%	2.43%
Cryotherapy	16.40%	4.15%	1.61%
HiFU	36.94%	17.22%	3.61%

*	Number of studies reviewed with 5-year FFS	Total number of patients	5-year FFS
Brachytherapy	9	223	55.63%
Prostatectomy	16	980	52.18%
Cryotherapy	2	335	56.07%
HiFU	1	22	52.00%

- The cancer control rates do not differ substantially between the salvage modalities.
- Radical prostatectomy, however, carried the highest rates of both incontinence and bladder neck stricture.

It is difficult to compare the outcomes of the 4 salvage treatment modalities:

- there is no standard definition of failure within or across modalities.
- toxicities are not standardly reported or recorded.
- there is huge variation in the length of follow-up time between both modalities.

The toxicity profiles of each modality are distinct.

available at www.sciencedirect.com journal homepage: www.europeanurology.com/eufocus





Platinum Priority - Review - Prostatic Disease

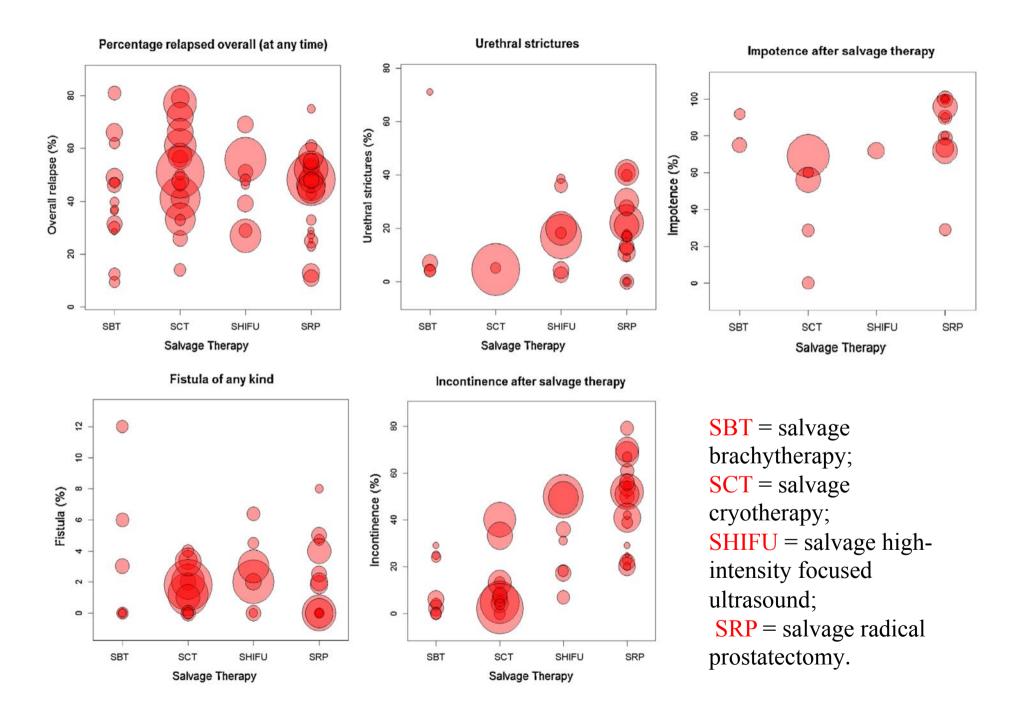
Comparative Oncologic and Toxicity Outcomes of Salvage Radical Prostatectomy Versus Nonsurgical Therapies for Radiorecurrent Prostate Cancer: A Meta–Regression Analysis

Yiannis Philippou a,†, Richard A. Parker b,†, Dimitrios Volanis c, Vincent J. Gnanapragasam c,d,*

Evidence acquisition: We performed a systematic review of PubMed/Medline citations according to the Preferred Reporting Items for Systematic Review and Meta-analysis (PRISMA) statement. We included 63 articles in the analysis (25 on SRP, 8 on SHIFU, 16 on SCT, 14 on SBT).

Conclusions: current salvage modalities appear to have similar oncologic and toxicity outcomes. In particular, SRP <u>does not appear to confer any added benefit in terms of disease control compared with more minimally invasive approaches but instead may potentially increase functional debility.</u>

^a Department of Surgery, Basildon and Thurrock University Hospital, Essex, UK; ^b Health Services Research Unit University of Edinburgh, Edinburgh, UK; ^c Department of Urology, Addenbrooke's University Hospital, Cambridge, UK; ^d Academic Urology Group, Department of Surgery and Oncology, University of Cambridge, Cambridge Biomedical Campus, Cambridge, UK



REVIEW

Salvage robotic prostatectomy for radio recurrent prostate cancer: technical challenges and outcome analysis

Homayoun ZARGAR ^{1, 2}, Alastair D. LAMB ³, Bernardo ROCCO ⁴, Francesco PORPIGLIA ⁵, Evangelos LIATSIKOS ⁶, John DAVIS ⁷, Rafael F. COELHO ⁸, Julio M. POW-SANG ⁹, Vipul R. PATEL ¹⁰, Declan G. MURPHY ^{2, 3}

EVIDENCE SYNTHESIS: We report on ten case series including 197 men undergoing sRARP after varying modalities of radiotherapy. Over two thirds are recurrence free at the time of follow-up but with continence rates of only 60% and potency rates of only 26%. Complications requiring intervention are few at 16% though higher than primary RARP.

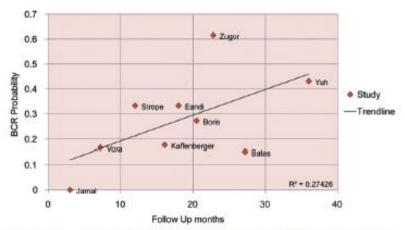


Figure 3.—BCR rates are higher in those series with longer follow-up. This suggests that follow-up duration is important for establishing the oncological durability of sRARP.

C.R.M. - 69aa

APR: CardioASA in prevenzione primaria, no comorbidità.

ANAMNESI UROLOGICA:

2015 PSA 10,6 ng/ml: biopsia prostatica: 5 prelievi a sinistra negativi; 5 prelievi a destra con adenoca Gleason 3+4. cT1

Aprile 2015: Brachiterapia (LDR)

Ottobre 2015: PSA 0,89 ng/ml; Gennaio 2016: 0,59 Aprile 2016: 0,43 Ottobre 2016: 0,88

Aprile 2017: 1.63 → PETCol: Negativa - Luglio 2017: 3,62

E.O: complessivamente negativo

DRE: esiti Brachiterapia

Ripetute PET colina, TC e scinti: negative

24/8/2017 Prostatectomia radicale retropubica + LAD con EI: ypT2c (5% del tessuto prostatico)-pN0 (18 N), Gleason score non attribuibile.

Dimesso in IV GPO, CV rimosso in VII GPO. A 3 mesi: continenza urinaria 1-2 pads/die, scarsa funzione erettile (sta assumendo inibitori di PDE-5). PSA a 1 mese dall'intervento: 0,03. PSA a 3 mesi dall'intervento: 0,03

Persistente dolore perineale postoperatorio. Eseguita RM pelvica: assenza di raccolte in pelvi e di reperti che potrebbero indicare la causa della sintomatologia.

Iniziato trattamento con corticosteroidi per os con successivo lieve miglioramento della sintomatologia

S.P. – 74 anni

- 2011 PSA 59 ng/ml -> Bp Adk Prostatico G.S. 4+4 in tutti i prelievi.
- Radioterapia (76 Gy, senza linfonodi) dal luglio 2011 al settembre 2011 + Bicalutamide per 6 mesi.
- Nadir PSA Maggio 2012: 0,09 ng/ml.
- Dicembre 2014 PSA 2,8 ng/ml -> Inizia Decapeptyl mensile con PSA a Maggio 2015 0,3 ng/ml.
- Da Novembre 2016 ripresa della crescita del PSA. Ultimo PSA Novembre 2017: 4,1 ng/ml. Tempo raddoppiamento < 6 mesi. Testosterone soppresso.
- Gennaio 2015 scintigrafia ossea negativa.
- Ottobre 2017 TC torace e addome neg. (senza m.d.c.): negativa.
- PET con colina (11/17): ipercaptazione ampia in sede prostatica sinistra, non altre ipercaptazioni.
- ER: prostata con aumento di consistenza lobo sinistro con limiti indistinti
- Ottobre 2017 Creat 1,6 mg/dL.

Prostatectomia radicale di salvataggio



Cardine: la selezione del paziente

- Non comorbidità importanti
- Conferma istologica di recidiva locale
- Informazione sulle conseguenze dell'intervento e sui possibili affetti avversi
- Malattia curabile prima del trattamento primario: stadio < T3b, PSA preoperatorio <10-15 ng/ml, GS <8, cN0, cM0
- PSA doubling time >12 mesi
- Intervallo libero da recidiva dopo terapia primaria di almeno 2 (se RT) o 3 anni (se brachiterapia)
- Assenza di gravi sintomi urinari o incontinenza

Rozet et al. CCAFU French guidelines 2016-2018 on prostate cancer. Prog Urol 2016; 27: S95-143

Problematiche tecniche:

- Fibrosi
- Perdita dei piani chirurgici
- Danno vascolare → ridotta capacità di guarigione dei tessuti

Problematiche del paziente:

- Età più avanzata rispetto al pz "standard" → maggiori comorbidità
- Gleason score e stadio clinico-patologico più sfavorevole

