

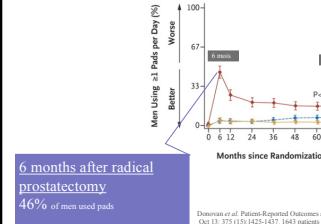
Incontinence management after prostatectomy

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Incontinence after prostatectomy

B EPIC Item: ≥1 Pad per Day (%)



6 years after the surgery
17% of men still used pads

Donovan et al. Patient-Reported Outcomes after Monitoring Surgery or Radiotherapy for Prostate Cancer. N Engl J Med 2016, 375(15) 1425-1437. 1643 patients.



Radical prostatectomy approach

Similar rate of incontinence at one year

- Open prostatectomy
- Laparoscopy
- Robot assisted laparoscopy

Thorsteindottir et al. Scand J Urol Neph 2011; 5:102-12

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Urinary incontinence after prostatectomy physiopathology

SUI

- Decrease in Urethral length (Presti, J Urol, 143, 1990)
- Removal of bladder neck
- External urethral sphincter damage (Presti, J Urol, 143, 1990)

UUI

- De novo overactive bladder
- Post radiation inflammation



Risk factors of urinary incontinence after radical prostatectomy

- Age
- Co-morbidities
 - Education et social status
 - Obesity
 - Bladder neck stricture
 - Preoperative bladder or sphincter dysfunction
 - Tumor stage

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Leakage fears hugely alter quality of life

I. Haub F. Rapport sur le thème de l'incontinence urinaire. Ministère de la Santé et des solidarités, 2007.

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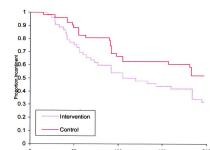
How to decrease the risk of urinary incontinence after radical prostatectomy

- Preoperative pelvic floor muscle training

RCT : 62 PFMT / 63 without PFMT

- Primary outcome: cough incontinence test
6 months after surgery

22% in the PFMT group versus 51% in controls



Burgio J Urol 2006



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Self-PFMT is also useful

- Before the surgery after physiotherapist teaching

- Immediately after the surgery

- After the catheter removal in case of urinary incontinence

Sources :

- Devonie M et al. Management of male urinary incontinence after radical prostatectomy. Prevention of incontinence and CTMI guidelines. Comité des Troubles Mictionnels de l'Homme. Prog Urol. 2008 Feb;18(2): 89-94.
- Urinary incontinence in men. Adult Conservative Management Committee 12. 5th International Consultation on Incontinence. 5th EDITION 2013. Pages 1202-3.
- F.C. Burkhard et al. EAU Guidelines on Urinary Incontinence in Adults. 2016. La rééducation des muscles du périné accélère la récupération de l'incontinence urinaire après une prostatectomie. Page 23.

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Programs are available on websites



Downloading clips from
<https://pro.coloplast.fr/conveen-pro>

In case of urinary incontinence after surgery, most of the patients use pads



- But pads are

- Costly (1500€/year)
- Less suitable for severe IU (discomfort)

- Risks:

- Smelly
- Maceration
- Skin ulcers

R. Kendek, D. Leborgne, O.Dury, B.Mhout, J.Weber. Etude comparative absorbants vs étuis périens auto-adhésifs chez l'incontinent urinaire dans un service de neurologie. Congrès SIFUD, Mulhouse- 1995



Penile clamps



EAU guidelines:

« Do not use penile clamp »

Risk of ischemia of the penis, if bad supervision or too long port (> 2-3h consecutive)

Guidelines on urinary incontinence. European Association of Urology (EAU); 2013 Mar. p. 31. Do not use penile clamps for control of UI in men (recommendation grade A).
www.guideline.gov/content.aspx?id=47641



Penile sheath

- Urinary drainage to a bag so no contact of urine with the skin; no smell

- Comfort, safety BUT must be well adapted
- No maceration, hygienic
- Discreet



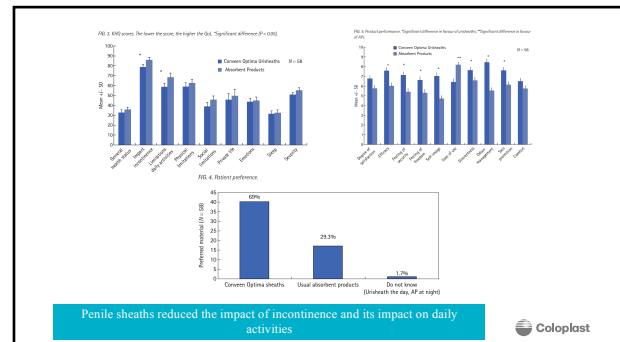
Penile sheaths: Demonstrated efficacy compared to pads

➤ Cross-over RCT
➤ 61 patients
➤ Objectives :
To evaluate the impact on Quality of Life of the use of Conveen® Optima + Conveen bags, in men with moderate to severe urinary incontinence, using pads

➤ Results
7 out of 10 men preferred to use penile sheaths if given the choice

1- Charter-Kastler E, Ballanger P, Pett J, Fournier M, Baril S, Ragni-Ghazarian E, Ruffon A, Le Normand L, Costa P. Randomized, crossover study evaluating patient preference and the impact on quality of life of urinethane vs absorbent products in incontinent men. BJU Int. 2011 Jul;108(2):241-7.





Penile sheaths: an adapted solution recognized by the EAU



EAU guidelines

« The penile sheaths are to be advised in case of male urinary incontinence without associated retentions »

1. Lucas M G et al. Guidelines on Urinary Incontinence. European Association of Urology

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How to use a penile sheath

To determine the length and diameter adapted to the patient's morphology

Morphology	Version	Length
Specific	Conveen Optima	45 cm
Standard	Conveen Optima	7.8 cm

Incontinence urinaire masculine
Produit intégralement hydrophobe LPPR pour les patients au ALD de jour ou nuit sans bénéfice d'une absorption complémentaire.
Conseil : Disponibilité indéniable du client à l'Fabricant : Coloplast AS
Les informations le sont d'institutions ayant autorisation. Document destiné aux professionnels de santé



How to use a penile sheath

To determine the type (s) of collection bag (s)

When does incontinence occur?

1 Day Night Day and night

What is the severity of incontinence ?

2 $\frac{1}{2}$ glass 1 glass (250 ml) 3 glasses

Incontinence urinaire masculine
Produit intégralement hydrophobe LPPR pour les patients au ALD de jour ou nuit sans bénéfice d'une absorption complémentaire.
Conseil : Disponibilité indéniable du client à l'Fabricant : Coloplast AS
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How to use a penile sheath

To determine the type (s) of collection bag (s)

Day bags

Conveen Active Conveen 0.5 or 0.75 l Conveen 1.5 l

Night bag

Conveen 2 l

Incontinence urinaire masculine
Produit intégralement hydrophobe LPPR pour les patients au ALD de jour ou nuit sans bénéfice d'une absorption complémentaire.
Conseil : Disponibilité indéniable du client à l'Fabricant : Coloplast AS
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Pelvic floor muscle training

- Usually started 1 months after the surgery
- Decreased time to recover continence
- But the continence rate is the same at one year in case of PFMT or not



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Pelvic floor muscle training and penile sheath

- No studies addressed the impact of penile sheaths on the recovery of continence
- So no study has shown any negative impact ...

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Surgical treatments of post-prostatectomy urinary incontinence

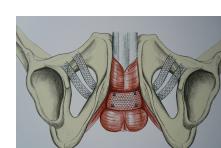
- When ? At least one year after the surgery

- Three devices:
 - Slings
 - ProAdjustable Continenence Therapy
 - Artificial urinary sphincter



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Male slings



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Male sling results

Author	Device	n	Year	FU (months)	Dry (%)	Improved (%)	Failure (%)
Rehder	Advance	156	2012	36	53	24	23
Sewerin	Atom	38	2012	17	60	24	16
Grise	TOMS	103	2012	12	59	27	14
Leurth	NP	173	2012	24	49	35	16
Rehder	Advance	118	2010	12	73,7	16,9	9,3
Hubner	Argus	101	2010	25	79,2	N/A	
Gill	Advance	35	2010	9	60	N/A	
Cornu	Advance	136	2010	21	62	16	22
Bauer	Advance	137	2010	27	51,6	23,8	24,6
Sousa	Remeex	51	2007	32	64,7	19,6	15,7

Hubner, W. A., et al. (2010). *BJU Int.*
Gill, B. C., et al. (2010). *J Urol* 183(1): 247-252.
Cornu, J. N., et al. (2010). *BJU Int.*
Sousa-Excedon, A., et al. (2007). *Eur Urol*
Rehder, P., et al. (2007). *Eur Urol* 52(3): 860-867.
Bauer, R. M., et al. (2010). *BJU Int.*

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Male slings complications

	Rehder	Hubner	Cornu	Bauer	Bauer	Sousa
Device	Advance	Argus	Advance	Advance	Advance	Remeex
Population	118	101	136	137	230	51
Follow-up (months)	12	25	21	27	17	32
Infection	0	2,8	0	0,8	0,4	4
Urinary retention	5,1		1,4	15,1	21,3	NA
Perineal pain	19,5 (1,7)	14,9	10	0,8	0,4	NA
Urethral erosion	0	13	0	0,8	0,9	2

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Pro Adjustable Continence therapy

- Small balloons
- Under the bladder neck
- Transcutaneously
- Under radioscopic and endoscopic control



Results

Table 2. Main patient characteristics in series of surgical management of SUI with ProACT

Reference	No. Pts	No. Radiotherapy	% Previous Adjuvant Radiotherapy	% Previous Anterior Incontinence Procedure	% Previous Urethrotomy	Mean Operative Minutes	% Urinary or Bladder Perforation
Hilfiker and Schlegel ⁹	117	100 ^a	2	28	19	14-56, Less than 25	12.8
Trigo Rocha et al ¹⁰	25	25.0	Not reported	Not reported	Not reported	35.4	8
Goussé et al ¹¹	54	55.6	17	0	12	17.3	0
Gingras et al ¹²	37	30/7	10.8	Not reported	Not reported	26	9
Lebet et al ¹³	62	55.8 ^b	19.3	6	16.1	37	9.6
Lebet et al ¹⁴	11	11/10	9	9	9	30-50	0
Martens et al ¹⁵	29	29/0	0	7	7	Range 13-29	7
Gregoire et al ¹⁶	79	79/0	20.2	Not reported	Not reported	23	2.5
Present series	128	128/0	25	10	10	50	4

^aAmong the 44 patients treated with IP without adjuvant radiotherapy.

Roupret M, Chartier-Kastler E. J Urol. 2010

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Progressive filing of the balloons

- Between 0.5ml and 1 ml at the beginning
- After 6 weeks, 1 ml every 2 weeks
- Penile sheaths are helpful until reaching continence



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Results

TABLE 3. Results of the artificial urinary sphincter in post-radical prostatectomy incontinence

Authors	N	Follow-Up (yrs)	0 or 1 pad/day (%)
Fleisher & Herschorn (1996)	30	3	87
Goldwasser et al (1987)	42	1.2	82
Gousse et al (2001)	71	7.7	59
Haab et al (1997)	36	7.2	80
Ho et al (2014)	48	24	88.2
Kim et al (2008)	124	6.8	82
Klijn et al (1998)	27	3	81
Lai et al (2007)	218	3.1	69
Lim et al (2014)	13	29.8	72.7
Madjar et al (2000)	71	7.7	59
Martinez-Salamanc et al (2015)	32	1	96
Martins & Boyd (1995)	28	2	85
Montague (1992)	66	3.2	75
Motter et al (1998)	96	1	86
Perez & Webster (1992)	49	3.7	85
Trigo Rocha et al (2008)	40	4.5	90

Verbeek, Neurol Urody, 2019

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Artificial Urinary Sphincter

- The Gold standard



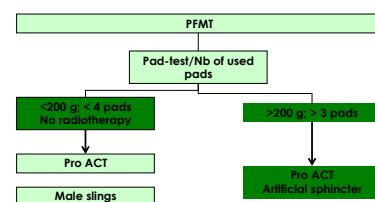
- Activation between 4 and 6 weeks

- After its placement

- Penile sheaths are still helpful after sphincter placement before turning it on

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Algorithm of surgical treatment of urinary incontinence after prostatectomy



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Conclusion

- Urinary incontinence is common after radical prostatectomy
- Penile sheaths are associated with the best quality of life
- Treatments are available for each patient including:
 - PFMT
 - Male slings
 - ProACT balloons
 - Artificial Urinary Sphincter

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