

Prevalence and Predictors of Climacturia and Associated Patient/Partner Bother in Patients with History of Definitive Therapy for Prostate Cancer (MP78-10)

Masaya Jimbo, Manaf Alom, Zachary D. Pfeifer, Eiftu S. Haile, Dane A. Stephens, Ajay Gopalakrishna, Matthew J. Ziegelmann, Boyd R. Viers, Landon W. Trost, Tobias S. Kohler

- Climacturia is an under-reported complication of definitive therapy for prostate cancer (PCa) – radical prostatectomy (RP) and/or radiation therapy (RT)
- 1,117 Men's Health Clinic patients completed an 89-item intake questionnaire on sexual dysfunction
 - 192 patients (17%) had prior RP/RT (RP alone = 139 [72%]; RT alone = 22 [11%]; RP + RT = 31 [16%]).
- Climacturia was reported by 39%, 14%, 52%, and 2.4% of patients with history of RP alone, RT alone, RP + RT, and neither RP nor RT, respectively (p <0.05 between all groups).
- 33 – 45% of patients with climacturia noted significant patient/partner bother.

Table 1. Prevalence of climacturia in patients with history of radical RP and/or RT for prostate cancer (PCa).

Prior PCa treatment, n (%)	192 (100)
RP alone, n (%)	139 (72)
Climacturia, n (%)	54 (39)
No climacturia, n (%)	77 (55)
Unknown, n (%)	8 (6)
RT alone, n (%)	22 (11)
Climacturia, n (%)	3 (14)
No climacturia, n (%)	18 (82)
Unknown, n (%)	1 (4.5)
RP + RT, n (%)	31 (16)
Climacturia, n (%)	16 (52)
No climacturia, n (%)	10 (32)
Unknown, n (%)	5 (16)

- Factors significantly associated with climacturia: **prior RP, prior RT, history of other prostate surgery, and ED**
- Significant reduction in climacturia prevalence was noted for patients who were ≥ 1 year out from RP, compared with patients who were < 1 year out (**31.5% vs. 56.5%**, $p = 0.02$).
- Among patients with prior RP/RT, **SUI was associated with increased risk of climacturia, whereas DM was associated with decreased risk**. No factors were associated with patient/partner bother.
- Among patients with prior RP, **nerve-sparing technique did not predict presence of climacturia but was associated with reduced patient/partner bother (OR 0.06, $p = 0.0015$)**.
- Patients should be counseled on the risk of climacturia before undergoing RP/RT.

Table 2. Univariable (top) and multivariable (bottom) analyses for predictors of the presence of climacturia in all patients. *
 * indicates statistical significance.

Univariable analysis				
Variable	OR	95% CI	P value	N
Prior RP	28.0	16.9 – 46.5	$<0.0001^*$	1,053
Prior RT	8.3	4.4 – 15.6	$<0.0001^*$	1,053
ED	4.1	1.8 – 9.5	$<0.0001^*$	1,024
Other prostate surgery	3.4	1.4 – 8.1	0.014*	1,053
Other pelvic surgery	1.4	0.6 – 3.2	0.4	1,053
Current smoker	1.0	0.5 – 2.0	0.9	973
Multivariable analysis (N = 1,024)				
Variable	OR	95% CI	P value	
Prior RP	28.8	16.2 – 51.4	$<0.0001^*$	
Other prostate surgery	11.0	4.0 – 30.6	$<0.0001^*$	
Prior RT	2.7	1.3 – 5.9	0.011*	
ED	1.6	0.6 – 4.0	0.3	