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	Double Specing		
Institution City Country	Clinic of Urology, Zürich University Hospital, Switzerland <sup>1</sup> Division of Urology, VA West Roxbury, Boston, MA <sup>2</sup>		
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Title (type in CAPITAL LETTERS)	POSTERIOR URETHRAL SENSORY THRESHOLD AND PRESSURE TRANSMISSION AFTER RADICAL PROSTATECTOMY		

<u>Aims of Study:</u> Understand the pathophysiology of urinary incontinence following radical prostatectomy. This continues to be a distressing problem and its mechanisms remain unclear.

<u>Methods:</u> Cystometry, urethral pressure profile, and posterior urethral sensory threshold measurements were performed in 34 patients undergoing radical prostatectomy. Preoperative pressure transmission (PT<sub>0</sub>) was determined by maximal urethral pressure divided by maximal abdominal during couph maneuvers at a bladder volume of 200ml. Postoperative PT (in % of PT<sub>0</sub>), sensory threshold (ST), maximal urethral closure pressure (MUCP) and functional sphincter length (SL) were measured after 6 weeks and 6 months. These parameters were compared between continent and incontinent patients.

<u>Results:</u> After 6 weeks, 6 patients (18%) were continent, and after 6 months 28 (82%) of the patients were totally dry. PT<sub>0</sub> was not different in postoperatively continent and incontinent patients.

Parameter	preop	6 weeks postop	6 months postop
[mean ± SD]	cont	kont. inkont. p	kont. inkont. p
PT [in % of PT0]	100	77±12 37±17 0.04	91±31 58±18 0.05
MUCP [cmH20]	49	35±6 11±9 0.03	42±9 23±6 0.03
SL [mm]	50	24±7 26±6 n.s.	25±6 25±3 n.s.
ST [mA]	16	65±8 84±11 0.04	41±12 70±8 0.04

<u>Conclusions:</u> Posterior urethral sensitivity and pressure transmission are postoperatively impaired, but increase after 6 months. Posterior urethral sensitivity and pressure transmission seem to be important factors to achieve early postoperative urinary continence after radical prostatectomy.

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