MP18-7649: **Urinary Incontinence after Primary Whole Gland Prostate Cryoablation: Does Function Improve at 1-year Following Treatment?**

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OBJECTIVES

- To assess changes in patient-reported rates of urinary incontinence more than 1 year following primary whole gland cryoablation of the prostate

METHODS

- A retrospective analysis of 3973 men who underwent primary whole gland cryotherapy.
- The primary endpoint was the rate of urinary incontinence assessed at two different time periods (0-9 months and 10-14 months).
- The secondary endpoint was to asses clinicodemographic predictors of postoperative urinary incontinence at the previously time intervals
- Continence was defined as strictly pad- free.

RESULTS

- Mean age was 70.2 years (SD±7.2).
- Mean PSA was 9.8 ng/ml (SD±25).
- Grade Group 2 or higher disease was found in 1708/ 3909 (43.7.5%) men.
- Mean follow-up time was 41.4 months (SD±35).
- Overall, 644/3897(16.5%) patients had urinary incontinence from 0-9 months following cryotherapy, compared to 139/3854 (3.6 %) from 10-14 months.
- The relative risk reduction of incontinence was 78.1% at 10-14 months following cryotherapy.

- Multivariate regression analysis of predictors of post cryo incontinence (PCI)

	PCI (0-9 months)		PCI (10-14 months)	
Variables	**OR (95% CI)**	**P-value**	**OR (95% CI)**	**P-value**
Age	**1.01 (1.0-1.0)**	**0.008**	**1.02 (1.0-1.1)**	**0.02**
Grade Group 2+	**1.72 (1.4-2.1)**	**<0.001**	1.4 (0.9-1.9)	0.09
Prior Interventional BPH	**2.33 (1.6-3.4)**	**<0.001**	**2.62 (1.5-4.7)**	**0.003**
Postoperative Urinary Retention	**1.79 (1.4-2.3)**	**<0.001**	**2.04 (1.3-3.2)**	**0.003**
TPV	**0.98 (0.98-0.99)**	**0.001**	**NA**	**NA**

CONCLUSIONS

- To the best of our knowledge this the first study assessing rates of urinary continence over time following primary whole gland cryoablation.
- Assessment of urinary function at 10-14 months, demonstrated a 78.1% reduction in the rates of incontinence compared to the 0-9 month time period.
- Age, prior BPH surgery, and postoperative urinary retention were independent predictors of both short- and long term continence following primary prostate cryoablation.
- Men with these risk factors should be counseled regarding their increased risk of poor urinary function following cryoablation.