

Clinical Outcomes of an Adjustable Artificial Urinary Sphincter Victo® for the Treatment of Male Stress Urinary Incontinence: A 50-Patient Cohort Analysis

Authors:

1. Trigo Rocha, Flavio, Sao Paulo University
2. Toledo, Luis Gustavo, Santa Casa Sao Paulo
3. Kanasiro, Francisco, Hospital Santa Marcelina
4. Meneguette, Vinicius, Hospital Servidores Sao Paulo

Hypothesis / aims of study

- The hydraulic artificial urinary sphincter (AUS) remains the gold standard for treating severe male stress urinary incontinence (SUI) after prostatectomy/radiotherapy
- Adjustable AUS devices may permit continence without compromising urethral blood supply.

Study design

- Retrospective study: 50 patients suffering of SUI after prostatectomy submitted to Victo® sphincter implantation
- Primary efficacy outcome was the objective cure rate, defined as the use of ≤ 1 pad per day (social continence).
- Secondary outcomes included changes in the number of pads used per day, complication and explantation rates, and patient-reported QoL (measured on a scale of 1-10)

Results

- Mean age of 68.3 (SD 8.5) years
- 44% had undergone radiation therapy, 16% had a history of prior incontinence surgery, 22% had urethral stenosis, and 14% were on hormonal blockade
- mean follow-up of 21.0 (SD 9.9) months
- Adjustment of the device volume was required in 66% of patients, with a median of 2.0 readjustments.
- Objective cure rate (≤ 1 pad/day) was 72.0% (36/50), with 40.0% (20/50) being completely dry (0 pads/day).

- Median number of pads used per day decreased from 5.0 (IQR 4.0-6.0) to 1.0 (IQR 0.0-2.0) at f/u ($p < 0.001$)
- Patient satisfaction was high or very high in 76%
- Good improvement in QoL scores ($p < 0.001$).
- Favorable complication profile, with the majority being low-grade (Clavien-Dindo I-II), and rates
- **Interpretation of results**
Victo® had a significant efficacy in reducing pad usage and reaching social continence with high patient satisfaction rate (76%) and improvement in QoL
- The adjustability feature allowed for postoperative titration may be beneficial for managing persistent SUI

Concluding message

Victo® adjustable artificial urinary sphincter is a safe and effective surgical treatment for male SUI improving objective continence parameters and patient quality of life with an acceptable and manageable safety profile

