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Adjustable Transobturator Male System (ATOMS) for male stress urinary incontinence

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Objectives

Adjustable Transobturator Male System (ATOMS), widely used in European countries since 2011, is a device that compresses on the ventral side of bulbar urethra to correct male urinary incontinence and offers a wide range of advantages including low rate of mechanical failure, single incision, single part and adjustable nature. Literature showed that it is an option suitable for all severity of male incontinence. The latest version of ATOMS has been introduced to Hong Kong recently, and this study aims to demonstrate the early experience of the operation in our hospital.

Patients and methods

This study reports the first 5 patients who underwent ATOMS in Dec 2024 to April 2025. The number of pads used, International Consultation on Incontinence Questionnaire - Short Form (ICIQ-SF), 1 hour pad volume, 24-hour pad volume and the number of top up required were recorded.

Results

All men with SUI were of post radical-prostatectomy status. 1 man had previous radiotherapy to the pelvis. Mean operation time was 59.8 minutes. The number of daily pads improved from mean 3.8 to 1.4. 4 out of 5 men achieved continence or dry, defined as the use of 0-1 pads per day. ICIQ-SF score improved from mean 16.4 to 8.2. Results of 24-hour pad test improved from mean 243.3g to 20.8g. 3 of the 5 men underwent postoperative adjustment and top up of cushion volume.

Conclusions

The early outcome of ATOMS was favorable with subjective and objective improvement in continence. Further studies will be conducted to evaluate the medium and long-term outcome of the procedure.

Figure 1. Different products for male SUI