

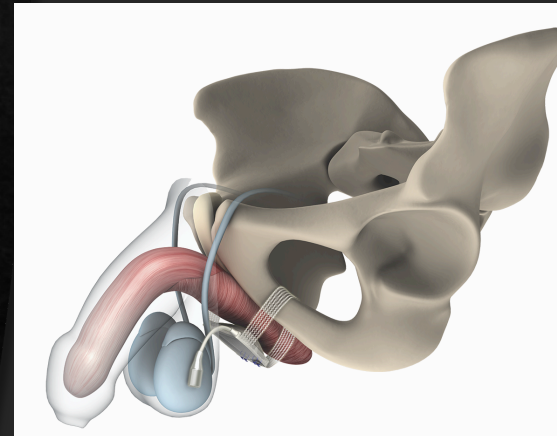
(MP40-18) 5-year experience on the Adjustable
Transobturator Male System (ATOMS) in UK
men with stress urinary incontinence

Bob Yang, Piotr Kowalski, Claire Jelley, Steve Foley

Introduction and Method

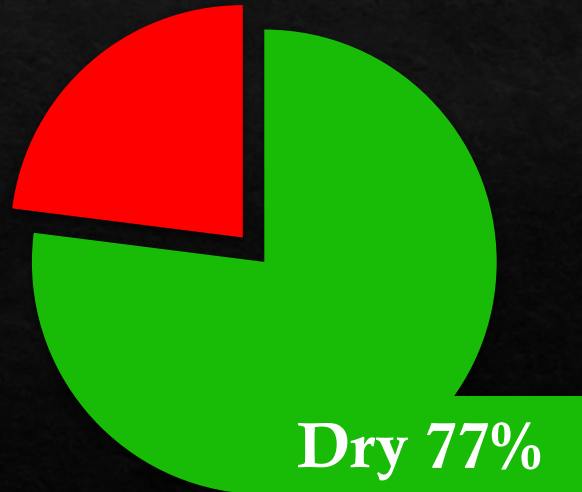
- ◇ Stress urinary incontinence is debilitating
 - Arises mainly from radical prostate surgery
- ◇ The ATOMS® (A.M.I., Feldkirch, Austria) is a new adjustable system consisting of a balloon mechanism which is inflated via a buried port-catheter
 - **Allows ongoing adjustments of pressure** exerted by the system in an outpatient setting, without the need for general anaesthetics
- ◇ 2019 meta-analysis Esquinas et al – 67% dryness on average, 90% improvement after adjustment
- ◇ First UK experience on using ATOMS®

- ◇ **70 men - average age: 70.3 (range 50 – 81)**
 - 94% post radical prostatectomy
 - 11 had previously undergone a conventional sling and 14 had urethral bulking agents in the past
 - 15 have had previous radiotherapy
- ◇ All underwent insertion of ATOMS®
 - Performed under general anesthetic
 - Follow up for up to 5 years.



Results and Discussion

- ◇ **54/70 (77%) post ATOMS are dry** (defined as using up to a maximum of one pad for reassurance only).
- ◇ 35/54 (65%) achieved dryness within 6 months (range 1-24 months).
- ◇ Average pad usage was 3.3 pre-op and 0.8 post-op



- ◇ Of the 16 patients where ATOMS have been ineffective, 7 had undergone radiotherapy previously.
 - However, pad usage still reduced by 56% in these post-radiotherapy patients.
- ◇ There were **8 (11%) complications**: 4 cases of retention, 2 wound infections treated medically, 1 balloon mechanism erosion requiring re-implantation and 1 case of infected device requiring removal.

ATOMS appears **effective in treating men with SUI**, including when other surgical therapies have failed.

Its **efficacy is hindered by radiotherapy**
But still reduced overall pad usage.

Further studies on ATOMS in larger numbers with longer follow-ups are required to confirm these positive outcomes.