INTRODUCTION

• Artificial urinary sphincter (AUS) is the standard treatment for moderate-to-severe male stress urinary incontinence (SUI)
• Adjustable devices add more surgical possibilities for our patients, including treatment of severe SUI
• We report our experience with ATOMS® device in the treatment of male SUI with a long follow-up

STUDY DESIGN, MATERIAL AND METHODS

• Retrospective, multicentre study
• 68 ATOMS® devices implanted, from September 2012 to March 2018
• Data recorded: clinical data, etiology and SUI severity, cough stress test, cystoscopy, 24-hours pad-test and urodynamics
• Outcomes, complications and evolution were registered at 6, 12, 24, 36 and 60 months.
• Statistical analysis was done through Stata 2.0

RESULTS

<table>
<thead>
<tr>
<th>CONTINENCE RATE</th>
<th>6 MONTHS</th>
<th>12 MONTHS</th>
<th>24 MONTHS</th>
<th>36 MONTHS</th>
<th>60 MONTHS</th>
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</thead>
<tbody>
<tr>
<td>OVERALL</td>
<td>79%</td>
<td>82%</td>
<td>82%</td>
<td>86%</td>
<td>86%</td>
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<tr>
<td>RADIATED PATIENTS</td>
<td>55.5%</td>
<td>45%</td>
<td>38%</td>
<td>60%</td>
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</tbody>
</table>

No differences in continence rate were found between mild, moderate or severe SUI
Lower continence rate was found in ERT patients (p=0.0001)

• Mean age was 68 years (±4.8)
• Etiology of SUI: 88% Radical prostatectomy
• 14 patients had received external radiotherapy (ERT) previously (20%)
• 29 patients had mild-to-moderate SUI and 39 were severe
• Median follow-up was 30 months (±19)
• Five abdominal valves (7%), 17 scrotal valves (25%) and 46 scrotal pre-assembled valves (68%) have been implanted
• Valve was removed in 4.4% of patients and total device was removed in 5.8%
• NO CHANGES WERE FOUND BETWEEN PRE AND POST-TREATMENT FLOWMETRY (P>0.05)
• PATIENT SATISFACTION WAS ASSESSED WITH VISUAL ANALOGICAL SCALE: 9.15

INTERPRETATION OF RESULTS

• ATOMS® device is a safe and effective treatment for male SUI and its effect remains during follow-up
• There is no need to manipulate the device and it allows treating more patients than with AUS. The majority of minor complications have been solved with pre-assembled valve
• The position above the muscle can avoid urethral complications, especially in those patients who have received external radiotherapy

CONCLUSION

Male SUI can be successfully treated with ATOMS® device
This device is safe, easy to implant and has a low rate of complications and device explantations
Previous ERT might influence the achievement of complete continence after implantation.
Counselling with radiated patient before implantation is necessary to warn about lower rates of total continence