Male Urethral stricture management: Trends in Australia over last 22 years

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INTRODUCTION

- Urethral stricture disease in males is an increasingly common problem, especially within an ageing population.
- There is significant variability in the management of stricture disease with options including urethral dilatation, urethrotomy, urethroplasty and urethrostomy.

AIM

This study was conducted to evaluate the prevalence of male urethral stricture disease and the trends of management over the last two decades in Australia.

MATERIAL & METHODS

The Medicare Australia database was used to assess the item numbers claimed for urethral stricture management, from January 1994 to December 2016.

Item numbers analysed included:
- 37300 – passage of sounds,
- 37303 – urethral stricture dilatation,
- 37327 – urethrotomy,
- 37334 – urethroplasty,
- 37342 – single stage urethroplasty,
- 37345 – first stage urethroplasty,
- 37348 – second stage urethroplasty, and
- 37351 – other urethroplasty.

A survey was also conducted amongst Australian urological surgeons, to evaluate – if they performed urethral reconstruction, type of training received, number/type of cases performed per year and area of practice.

RESULTS

<table>
<thead>
<tr>
<th>Type of procedure</th>
<th>Episodes of care</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passage of sounds</td>
<td>19,618</td>
</tr>
<tr>
<td>Urethral stricture dilatation</td>
<td>69,390</td>
</tr>
<tr>
<td>Internal urethrotomy</td>
<td>46,085</td>
</tr>
<tr>
<td>Urethroplasty</td>
<td>5447</td>
</tr>
<tr>
<td>Single stage urethroplasty</td>
<td>3732</td>
</tr>
<tr>
<td>1st stage urethroplasty</td>
<td>389</td>
</tr>
<tr>
<td>2nd stage urethroplasty</td>
<td>282</td>
</tr>
<tr>
<td>Other urethroplasty</td>
<td>733</td>
</tr>
<tr>
<td>Ratio of endoscopic episodes to</td>
<td></td>
</tr>
<tr>
<td>urethroplasty</td>
<td>13.12</td>
</tr>
</tbody>
</table>

During this time, the Australian population increased from 18 to 24 million.

Exact prevalence of urethral stricture disease is unknown.

SUMMARY / CONCLUSION

- This is the largest set of data on urethral stricture disease management in Australia.
- Due to the growing population and improved survival there is a likely increasing incidence of urethral stricture disease.
- Few patients undergo definitive reconstruction, with the majority living in metropolitan areas.
- Hence, there is a great need for urethral reconstructive urologists in Australia to provide better definitive surgery options in the appropriate patient group, rather than repeated endoscopic procedures, particularly in non-metropolitan centres.

ACKNOWLEDGEMENTS

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REFERENCES

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