THE INCIDENCE AND MANAGEMENT OF STRESS URINARY INCONTINENCE IN FEMALES WITH URETHRAL DIVERTICULUM

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Introduction

• Urethral Diverticula in women are associated with urodynamic stress urinary incontinence (USUI) both pre-existing and new onset following excision of the diverticulum.

• As the incidence of urethral diverticula is rare there is a paucity of data in the literature on the management of USUI in this condition.

• Our series evaluates the incidence and management of USUI in our series of patients undergoing excision of urethral diverticulum.

Materials and methods

• Prospective database kept from May 2007 – Aug 2016 at a single centre.

• 100 patients underwent transvaginal excision of urethral diverticulum in this time period with utilisation of martius fat pad interposition at closure.

• All patients had pre-operative MRI and video urodynamics (VUDS)

• Any patient with persistent or new onset USUI underwent VUDS 6 months post-operatively.

Results

• 25 patients had pre-existing USUI prior to surgery.

• 10 patients with pre-existing USUI had resolution of symptoms after excision of urethral diverticulum

• 25% (n=25) of patients had either persistent pre-existing or new-onset USUI after excision of urethral diverticulum

• Results of the management of post-operative USUI is outlined below (Figure 3):

Conclusion

• 40% of patients with pre-existing USUI will have resolution of symptoms after excision of the diverticulum alone

• 25% of patients will have USUI post-excision of urethral diverticulum:

• 10% will have new onset USUI

• 15% will have persistence of pre-existing USUI

• Post-operative USUI requires surgery in 56 % of cases.

• Both conservative and surgical measures are feasible in this group with successful outcomes.

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