

Mean UDI (/28)	14.95	6.19	< 0.001	Mean UIQ(/21)	8.97	2.00	< 0.001
Mean CRADI(/32)	11.22	6.27	< 0.001	Mean CRAIQ(/21)	5.73	1.37	< 0.001
Mean POPDI(/20)	13.90	3.81	< 0.001	Mean POPIQ(/21)	8.83	1.81	< 0.001

We found 60% (n=3/5) patients with POPQ ≥ 2 did not have subjective symptoms. On the other hand, 78% (n=7/9) with subjective symptoms did not have an anatomical failure that correlated with their symptoms

There was no visceral injury during surgery. 3 instances (3.3%; n=3/90 procedures) of vaginal mesh erosion were noted. In 1 patient, this was successfully treated conservatively with vaginal estrogen pessaries while 2 required trimming of mesh. No de novo dyspareunia was noted. 27% (n=19/ 70) developed de novo stress incontinence after surgery. Out of which 52.6% (n=10/19) were successfully treated with a subsequent sling surgery. The rest were treated conservatively with pelvic floor exercise.

Interpretation of results

Our results are comparable to previous studies: 86.6% cure with Prolift for post hysterectomy prolapse⁽³⁾; 95% cure with Prolift and Apogee in the West of Scotland study group.⁽²⁾

Though other studies have recorded a dyspareunia rate from 9% to 16.5%, the absence of de novo dyspareunia in our study can be explained by careful surgical techniques such as avoidance of excising excess vaginal tissue, trimming of the mesh when necessary to avoid bunching up of the mesh under the vagina and avoiding perineal muscle plication unless the introitus was very wide.

In the light of the finding of 27% de novo stress incontinence, we feel that all patients with recurrent/ multicompart ment prolapses undergoing mesh insertion should be offered urodynamic testing before surgery. This study proved that subjective prolapse symptoms are not necessarily supported by occurrence of POPQ ≥ 2 and vice versa. This observation underlies the importance of evaluation of subjective symptoms in assessing the severity of prolapse and success rates. When subjective symptoms are not assessed, the results are unlikely to be a true representation of patient well being and satisfaction after the surgery.

Concluding message

This study had success rates and complication rates that were in keeping with the polypropylene mesh literature to date. In this time of the great mesh debate, this study sets a precedent for all surgeons using the new generation meshes. We have reported the data on our first set of patients and intend to continue with our mesh register. Until long term follow up of at least 5 years becomes available, surgeons who choose to incorporate the mesh into their practice may consider using this for recurrent prolapses or primary repairs with a high risk of recurrence after a realistic discussion of bothersome outcomes with their patients.

References

1. Epidemiology of surgically managed pelvic organ prolapse and urinary incontinence. *Obstet Gynecol.* 1997 Apr; 89(4):501-6.
2. West of Scotland Study Group. Retrospective multicentre study of the new minimally invasive mesh repair devices for pelvic organ prolapse. *BJOG.* 2008 Jan; 115(1):22-30
3. Follow-up after polypropylene mesh repair of anterior and posterior compartments in patients with recurrent prolapse. *Int Urogynecol J Pelvic Floor Dysfunct.* 2007 Sep; 18(9):1059-64.

<i>Specify source of funding or grant</i>	None
<i>Is this a clinical trial?</i>	No
<i>What were the subjects in the study?</i>	HUMAN
<i>Was this study approved by an ethics committee?</i>	Yes
<i>Specify Name of Ethics Committee</i>	South Wales Ethics Committee
<i>Was the Declaration of Helsinki followed?</i>	Yes
<i>Was informed consent obtained from the patients?</i>	Yes