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Investigating the clinical significance of mesh peritonization in abdominal vault suspension surgery using a comparative rabbit model



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The vaginal and the abdominal approach to pelvic reconstruction have been widely used all over the world to treat pelvic organ prolapse.

Sacrohysteropexy and sacrocervicopexy involve the use of mesh to suspend the uterus or cervix to the anterior longitudinal ligament of the sacrum.



Although there are no comparative studies, the majority of authors recommend the systematic use of peritonization during abdominal vault suspension surgery.

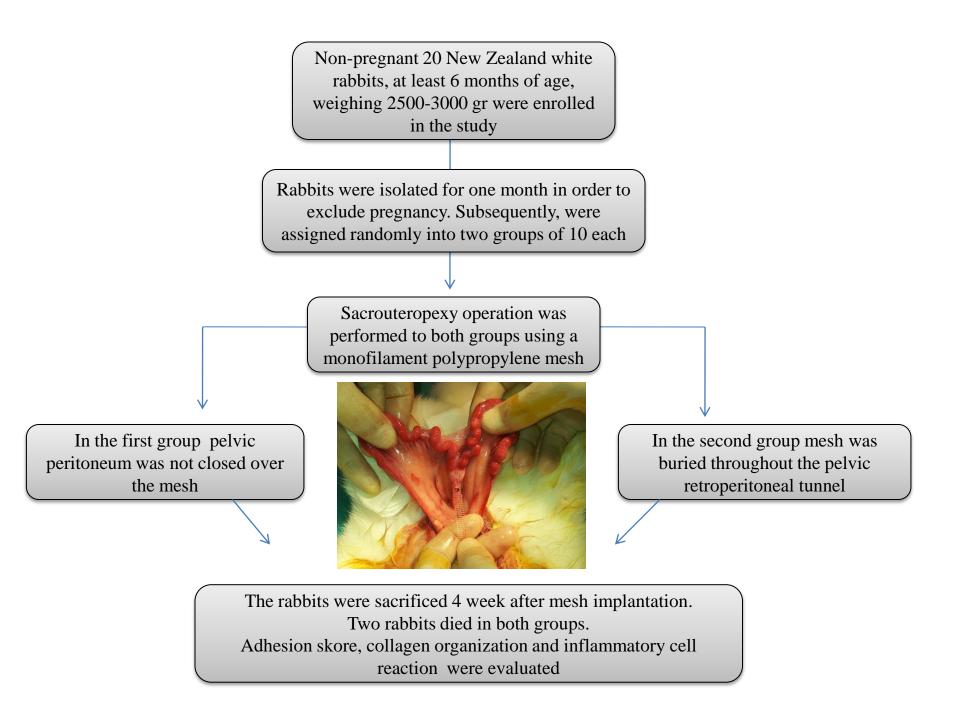
Abdominal sacrocolpopexy for vault prolapse without burial of mesh: a case series

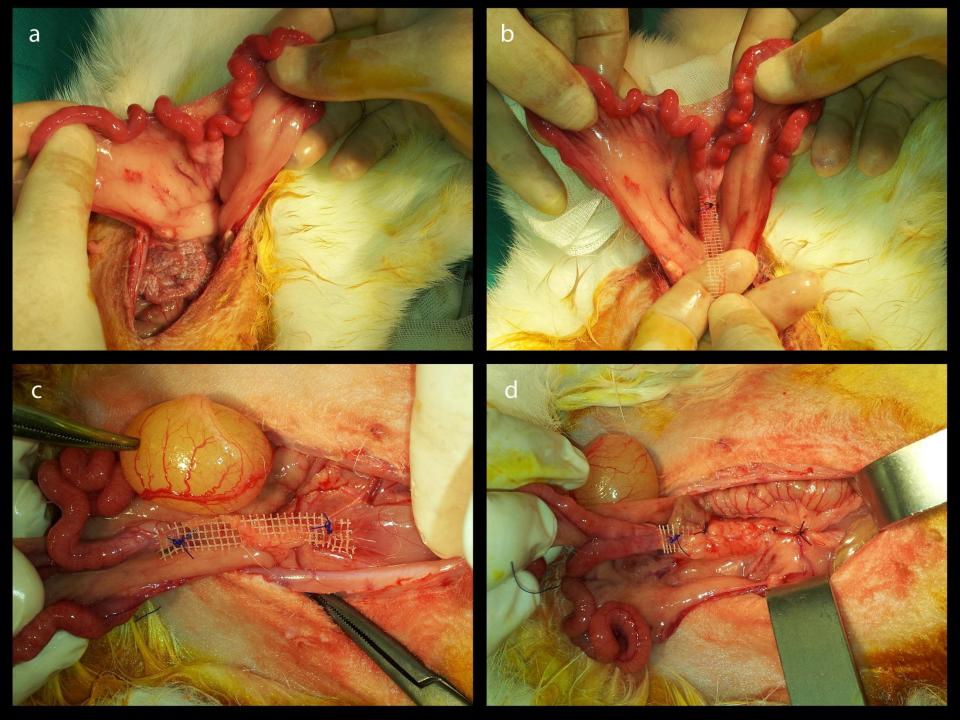
Sohier Elneil,^a Alfred S. Cutner,^a Mary Remy,^a Andrew T. Leather,^b Philip Toozs-Hobson,^c Brian Wise^d

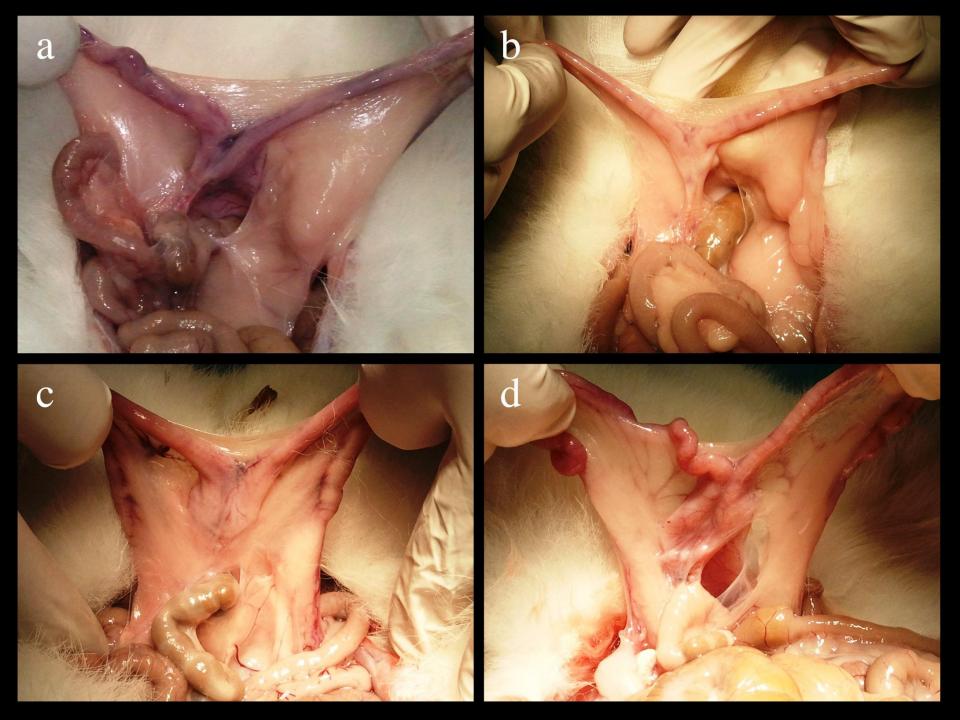
Objectives To audit the clinical outcome of abdominal vault suspension (sacrocolpopexy, hysteropexy or cervicopexy) using non-absorbable mesh, without burial by closure of the peritoneum.

A prospective multicenter study of 128 patients undergoing apical prolapse surgery has shown that non-closure of the peritoneum is not associated with mesh-induced bowel injury.

We purposed in this study to investigate whether mesh peritonization is clinically significant in an experimental rabbit model.







Conclusion

- We performed pelvic vault suspension surgery with or without peritonization in the rabbits and then compared the results of adhesion scoring, collagen organization and inflammatory cell reaction.
- We did not find any statistically significant differences in adhesions and collagen organization between the two groups.
- In the group that underwent peritoneal closure, a statistically significant increase in the inflammatory reaction was observed.

Laparoscopic Hysteropexy

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