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LAPAROSCOPIC SACROCOLPOPEXY AND ABDOMINAL SACROCOLPOPEXY: A RETROSPECTIVE COMPARISON

Hypothesis / aims of study

The option of laparoscopic surgery to repair pelvic organ prolapse (POP) appeals to many patients who wish to avoid an abdominal procedure. We present a retrospective comparison of abdominal sacrocolpopexy (ASC) and an alternative, laparoscopic sacrocolpopexy (LSC) for the treatment of vaginal vault prolapse.

Study design, materials and methods

The hospital and office records of all patients who underwent ASC and LSC by the same surgeon from March 1998 until June 2003 were reviewed. Variables collected included demographics, intraoperative data, and surgical results as evaluated by pre- and post-operative supine POP-Q measurements. Both open and laparoscopic procedures were performed using a Y-shaped Mersilene mesh (Ethicon, Somerville, NJ) graft, which was secured to the anterior and posterior endopelvic fascia using eight to ten stitches of permanent suture. The mesh was then attached to the sacral promontory at the level of S-1 using a minimum of two stitches, and was then reperitonealized. Statistics were performed using SPSS version 11.5.0 for Windows.

<u>Results</u>

Thirteen patients underwent ASC and 10 underwent LSC. Demographic and outcome variables are noted in tabular form, with postoperative measurements noted at 6 weeks. No intraoperative complications occurred in either group. Postoperative complications in the ASC group included 1 wound infection and 2 cases of ileus. LSC postop complications included 1 mesh erosion and 1 trochar site hernia. In the ASC group, 12/13 patients had concomitant procedures, including TAH (2), lysis of adhesions (5), abdominal paravaginal repair (5), posterior colporrhaphy (4), and TVT (4). In the LSC group, 9/10 patients had concomitant procedures, including laparoscopic paravaginal repair (6), lysis of adhesions (6), posterior colporrhaphy (3), and TVT sling (3).

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<u>Variable</u>		<u>N</u>	<u>Mean</u>	SD	<u>Sig</u>
Age					
LSC		10	53.00	9.14	0.206
		-		-	
ASC		13	58.89	11.22	
BMI					
LSC		10	23.9	3.14	0.021
ASC		12	29.17	6.22	
EBL					
LSC		10	57.5	16.8	0.001
ASC		13	138.4	82.01	
OR	time				
LSC		10	206.6	50.3	0.722
ASC		12	199.2	35.4	
Hosp	Days				
LSC	•	10	1.1	.316	0.001
ASC		12	3.08	1.39	

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<u>Variable</u>		N	Mean	SD	Sig
Preop LSC	Aa	10	-0.1	1.47	0.722
ASC		12	0.333	1.91	
Preop LSC	Ар	10	-1.5	1.51	0.722
ASC		12	-1.88	0.88	
Preop LSC	С	10	-2.50	3.84	0.036
ASC		12	1.50	4.24	
Postop LSC	Aa	10	-2.65	0.53	0.918
ASC		11	-2.68	0.51	
Postop LSC	Ар	10	-2.65	0.52	0.468
ASC		11	-2.82	0.40	
Postop LSC	С	10	-8.5	1.47	0.654
ASC		11	-6.5	1.74	

Interpretation of results

LSC and ASC appear to be comparable procedures in terms of operative time. Operative time for both LSC and ASC included time required for concomitant procedures; however, both groups underwent a similar number and type of concomitant procedures. LSC and ASC both resulted in similar suspension of the vaginal apex, though as a group the LSC patients had significantly higher C values preoperatively. Anterior and posterior vaginal wall suspension also yeilded similar results. Patients who underwent LSC experienced significantly less blood loss, and had a significantly shorter length of hospitalisation.

Concluding message

LSC is an alternative to traditional abdominal surgery for POP. Additional longitudinal follow up and a larger cohort of patients may clarify the frequency of complications and durability of LSC.