

# **EFFECTIVENESS AND PREDICTORS OF OUTCOME OF LAPAROSCOPIC PELVIC TOTAL PERITONEAL EXCISION**

⊙ pain at defaecaton

⊙ pain at intercourse

Flow chart of women in the study

#### Introduction

Aim and Objectives To determine:

There were two parts to the study:

for endometriosis.

• pain at micturation

⊙ pain at other times

Histogram showing age of all women

measures for the following: ⊙ pain before periods

<u>Methodology</u>

of life was used.

with endometriosis

on pain and health related quality of life

Endometriosis is a common gynaecological condition and affects the health related quality of life of women. Laparoscopic pelvic peritoneal excision of endometriosis is an effective surgical option for treating endometriosis. However, 19-36% re-operation rate following conservative surgery has been reported. In order to improve effectiveness, reduce recurrence and save ovaries, radical excision of endometriosis has been suggested.

■ the long term effectiveness of radical pelvic peritoneal excision of endometriosis

the predictors of outcome of surgery (re-operation and symptom improvement)

Retrospective study of clinical case notes and a postal questionnaire. A total of 207 consecutive women who underwent laparoscopic total pelvic peritoneal excision of

Part 1 – clinical case note review of 207 women who underwent surgery

Part 2 – postal questionnaire sent to the 207 women whose case notes were reviewed in Part 1 of the study. The questionnaire included pain

backache

A validated Endometriosis Health Profile (EHP- 5)8 questionnaire for health related quality

⊙ pain during periods

visually diagnosed endometriosis from December 1999 to December 2006.

Kaplan Meier re-operation free survival estimates for women with and without laparoscopic assisted vaginal hysterectomy at the time of excision



Comparison between characteristics of women who responded and who did not respond to follow-up questionnaires

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Characteristic	Respondents	Non respondents	P values					
Number (n %)	117 (56.5%)	90 (43.5%)						
Age	34.88 (SD 6.6)	33.47 (SD 6.57)	0.127**, 95%CI:-0.4, 3.2					
Parity Nulliparous	57 (48.7%)	37 (41.1%)	0.230**					
1-2	50 (42.7%)	42 (46.7%)	95%CI: -0.3, 0.074					
3-4	9 (7.7%)	10 (11.1%)						
5-6	1 (0.9%)	1 (1.1%)						
Indications of surgery			0.626***					
Pain	90 (76.9%)	74 (82.2%)	LR: 0.622					
Infertility	6 (5.1%)	3 (3.3%)						
Pain and infertility	21 (17.9%)	13 (14.4%)						
Type of endometriosis			0.018***					
Superficial	31 (26.5%)	38 (42.2%)	OR 2.03,					
Deep	86 (73.5%)	52 (57.8%)	95% CI: 1.1, 3.6					
Cul de sac obliteration	48 (71.6%)	19 (28.4%)	0.002, OR=2.6,					
			95%CI: 1.3, 4.8					
Theatre occupancy	209 (175-250)	206 (165-232)	0.782*					
Median (IQR)								
LAVH at operation 1 or	38 (56.7%)	29 (43.3%)	0.97 *** , OR=1					
operation 2, n=67			95%CI: 0.6, 1.8					
Further surgery, n=47	28 (59.6%)	19 (40.4%)	0.631***, OR=1.18,					
			95%CI: 0.6, 2.2					

## Comparison of patient responses to pain questionnaire before and after laparoscopic excision of

endometriosis

Comparison of patients' responses to EHP 5 questionnaire before and after laparoscopic excision of endometriosis



Before operation

After operation

Patient satisfaction with Laparoscopic excision of endometriosis

Question	Yes n (%)	No n (%)	Total
Has the operation improved your symptoms?	103 (89.6%)	12 (10.4%)	115
Would you recommend this to a friend who has the same condition?	111 (98.2%)	2 (1.8%)	113

Results of paired sample test comparing global pain score before and after laparoscopic excision of endometriosis

	Before operation Median*(IQR)	After operation Median*(IQR)**	Difference Median (IQR)	Difference between global pain score before and after***	
				Zscore	P value
Global Pain Score	28 (23-31)	13 (9.5-18.5)	12 (7-18.5)	8.152	<0.001

### Conclusion

Laparoscopic total pelvic peritoneal excision of endometriosis improves pain and health related quality of life on long term follow-up. Risk of re-operation is less if hysterectomy is performed at the same time. Re-operation is mainly for ovarian adhesions or hysterectomy. Recurrence of endometriosis is rare in the excised area. Oophorectomy is not needed at the time of excision or at re-operation

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Pie chart to demonstrate the indications for surgery



### **Results**

Questionnaires were returned by 117 (56.5%) of women who reported a significant improvement in their individual pain scores, global pain score, non-menstrual global pain score and EHP- 5 health related quality of life and general health score (p=<0.001).

The risk of re-operation was 47 (23%) projected over a period of 64 months. After 64 months, a chance of re-operation was negligible within the maximum follow up period (8.8 years). Re-operation was mainly for ovarian adhesiolysis and need for hysterectomy for menstrual problems. Recurrence of endometriosis was rare (0.5%) within the previously excised area. The overall rate of recurrent peritoneal endometriosis was 6.8% which was mainly superficial and outside the previously excised area, 67 (32%) of women needed hysterectomy at the time of excision or at re-operation. Women who had hysterectomy at excision were less likely to need re-operation. Oophorectomy is not needed at the time of excision or at re-operation. Only 7 women among 207 had both ovaries removed at the time of excision and all these cases were peri-menopausal undergoing hysterectomy. 185 (89.4%) of women were discharged home after an overnight stay. There were no major complications, no conversion to laparotomy and no return to theatre.

## Standard/Guideline/Evidence Base

1. Abbott JA, Hawe J, Clayton RD, Carry R, The effe 82 (4), 878-884, 2004 <u>3</u>, Garry-R, Clayton-R, Hawe-<u>Human Reproduction</u>, 20 (10), 2698-2704, 2005. <u>5</u>, recurrent disease. <u>Fertility and Sterility</u>. 56 (4), 628-6 questionnaire: The EHP-5. Quality of life research. 1 e-J. The effect of

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