

PAIN FOLLOWING DAY-STAY GYNAECOLOGICAL LAPAROSCOPY



CASSELLS. K^{1,2}, KOVACS.G², WEN. R²

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY, UNIVERSITY OF MELBOURNE, PARKVILLE, VICTORIA, AUSTRALIA

2EPWORTH FREEMASONS, EAST MELBOURNE, VICTORIA, AUSTRALIA

Introduction

Diagnostic and therapeutic laparoscopy is a common day-stay procedure in gynaecology. There is limited data on recovery following gynaecological laparoscopy, and the counselling patients receive about recovery time is not evidence based.

Objective

To compare pain and its impact on Activities of Daily living (ADLs) following diagnostic and therapeutic day-stay gynaecological laparoscopy, to enable improved education on postoperative expectations.

Methods

A cohort of 159 participants undergoing day-stay gynaecological laparoscopy were recruited in a Melbourne-based hospital setting. Women were classified as therapeutic (n=102) if they underwent any form of therapeutic surgical intervention or diagnostic (n=27) if they underwent laparoscopy <u>+</u> dye studies. Procedure stratification is outlined in Table 1.

Procedure	Number of Cases (n)
Diagnostic	27
Hysteroscopy, dilatation and curettage + dye studies^	29 (100%)
Therapeutic	102
Excision of endometriosis	84 (65%)
Salpingectomy	16 (12%)
Cystectomy/Excision of endometrioma/Ovarian drilling	20 (15%)
Polypectomy	2 (0.01%)
Myomectomy	3 (0.02%)
Sterilization	2 (0.01%)
Adhesiolysis	2 (0.01%)
Oophorectomy	I (<0.01%)

Table 1. Procedure Stratification

Patients recorded pain scores and analgesia requirements from postoperative days 1 to 7. Pain scores corresponded to impact on ADLs (refer Table 2). Statistics were performed using a paired statistical t-test.

Rank	Description of Pain
	Minimal description (does not impact ADLs)
2	Mild discomfort (noticeable but does not impact ADLs)
3	Moderate discomfort (noticeable to the point it may impact ADLs)
4	Severe discomfort (noticeable discomfort that may cause a person to modify ADLs)
5	Unbearable discomfort (unable to perform any ADLs and is bedbound)

Results

Majority of women experienced post-operative abdominal pain. Shoulder pain affected more therapeutic than diagnostic participants (80% vs 59%) (refer Table 3).

Site	AII (n=129)	Diagnostic (n=27)	Therapeutic (n=102)
Abdomen	128 (99%)	27 (93%)	102 (100%)
Shoulder	94 (73%)	16 (59%)	81(80%)

Table 3. Site of pain

Abdominal pain moderately impacted ADLs in all patients. Shoulder pain was worse post-therapeutic procedures however it had minimal impact on ADLs. (refer Table 4)

Site	All (pain score [±SD]) (n=129)	Diagnostic (pain score [±SD]) (n=27)	Therapeutic (pain score [±SD]) (n=102)	p Value
Abdomen	3.12 (2.91 - 3.32)	1.26 (0.65 - 1.87)	3.12 (2.91 - 3.32)	0.48
Shoulder	2.16 (1.89 - 2.45)	1.41 (0.76 - 2.06)	2.16 (1.89 - 2.45)	0.04

Table 4. Severity of pain

Shoulder pain lasted significantly longer (3.18 vs 1.86 days, p=0.01)(refer Table 5) for therapeutic procedures. For all procedures mean return to ADLs and employment was 5.38 days (p=0.09) and 7.89 days (p=0.19) respectively (refer Table 6).

	All (mean days [±SD]) (n=129)	Diagnostic (mean days [±SD]) (n=27)	Operative (mean days [±SD]) (n=102)	p Value
Abdomen	5.03 (4.57 - 5.47)	4.32 (3.40 - 5.25)	5.23 (4.71 - 5.74)	0.12
Shoulder	2.89 (2.48 - 3.30)	1.86 (1.03 - 2.68)	3.18 (2.72 - 3.64)	0.01

Table 5. Mean days to resolution of pain

	All (mean days [±SD])	Diagnostic (mean days [±SD]) (n=27)	Operative (mean days [±SD]) (n=102)	p Value
ADLs	5.38 (5.01 - 5.76)	4.75 (3.97 -5.53)	5.56 (5.14 - 5.98)	0.09
Employment	7.89 (7.12 - 8.67)	7.00 (5.57 - 8.43)	8.27 (7.34 - 9.20)	0.19

Table 6. Days to return to ADL

Mean days requiring any analgesia was 3.55 (p=0.13). Mean days requiring opiate analgesia was 1.60 (p=0.99).

Discussion and Conclusion

Pain following therapeutic and diagnostic day-stay gynaecological laparoscopy has comparable effect on ADLs, return to employment and analgesia requirements.

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