Does abdominal hysterectomy affect anorectal function and quality of life?

Mr PJ Arumugam

Background

• Abdominal hysterectomy has been shown to affect bowel function in retrospective studies. (Ref)

Methods

- 30 patients awaiting abdominal hysterectomy for benign disorders were prospectively recruited.
- Assessed preoperatively and 4 months following hysterectomy by
- Anal manometry
- Defaecatory proctogram
- Colonic transit
- Endoanal ultrasound

Methods

QoL assessment by EuroQol

• Cleveland continence score

• Bowel questionnaire

Methods

• Exclusion criteria- previous bowel or anorectal surgery and inflammatory bowel disease.

• SPSS 10 was used for analysis.

• Ethical approval was obtained.

Defaecatory Proctogram

	Hysterectomy	Hysterectomy
	(Preop)	(Postop)
Rectocoele	25(85%)	25(85%), p=.1
Intusussception	18(60%)	15(50%), p=.18
Cough incontinenece	4	5, (p=.70)
Pelvic floor descent	26(90%)	27, p=.31

Anal manometry

	Hysterectomy	Hysterectomy
	(Preop)	(Post op)(Mean)
	(Mean)	
Resting pressure	82	83, p=.91
(Cms of Water)		
SqueezePressure	170	166, p=.68
(Cms of Water)		
First sensation	24	31 (p=.01)
Flatus	72	90 (p=.01)
Maximal tolerated Volume	224	212, p=.11

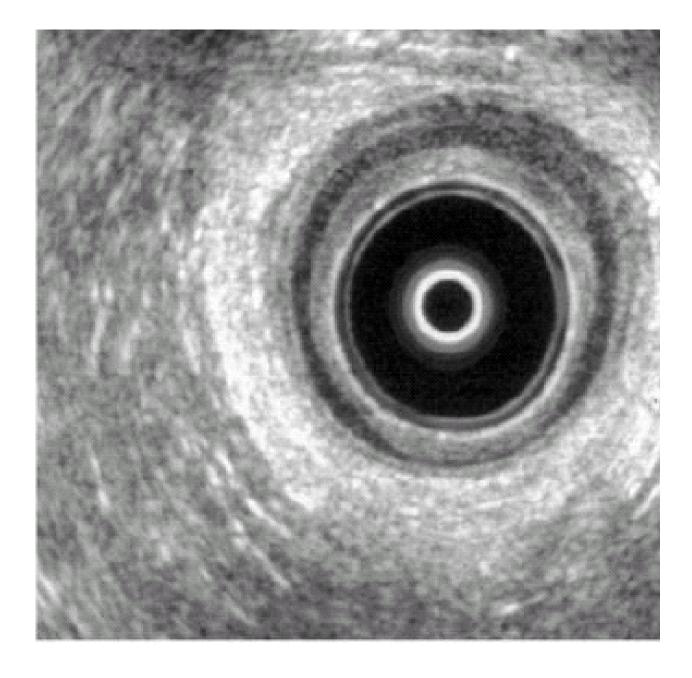


FIGURE 11.17. Endo-anal scan showing deep

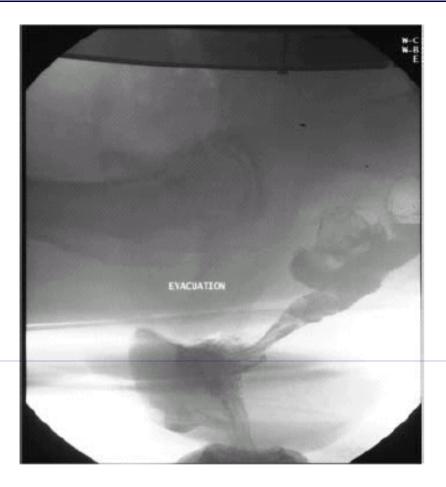


FIGURE 11.7. A moderate rectocoele.



Figure 11.11. Maximal squeeze pressure.

218 P.J. Arumugam et al.



FIGURE 11.9. Coexisting rectocoele and intussception.

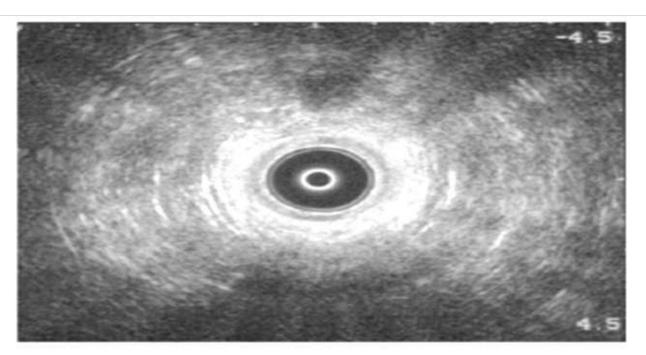


FIGURE 11.15. Endo-anal scan showing superficial level.

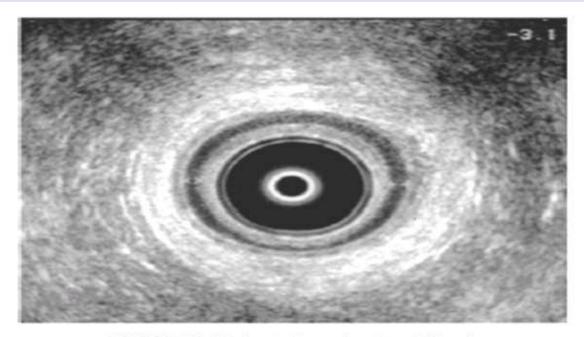


FIGURE 11.16. Endo-anal scan showing mid level.

- SF-36 (Domains)
- Paired samples t-test- Bodily pain improved, p=.01
- General health transformed, p=.03
- Post vitality improvement, p=.003
- Emotional role improved, p=.006
- Overall health improved, p=.000

Results

• Endoanal ultrasound normal in all patients pre and post op

 Colonic transit- two were abnormal preop and became normal post op

- SF-36 (Domains)
- Wilcoxon signed rank test- Bodily pain improved, p=.009
- General health transformed, p=.05
- Post vitality improvement, p=.003
- Emotional role improved, p=.009
- Overall health improved, p=.000

- Euroqol
- Paired samples t-test
- Thermometer-patient' own assessment, significant improvement, p=.004
- Tariff-, nosignificant difference, p=. 334
- Wilcoxon, non parametric
- Thermometer improvement, p=.003

• Cleveland continence score-parametric and non-parametric-no significant change

 Bowel symptom score- - parametric and non-parametric-no significant change

Summary

- The median age of the patients was 43 years (range32-65).
- First rectal sensation and ability to sense flatus was prolonged after surgery and was significant (p=0.01).
- Resting anal pressure, squeeze pressure, maximal tolerated volume, colonic transit time, pelvic floor descent were unaffected by surgery.
- Rectocoele and intussusception were noted in 85% and 50% of the patients respectively before surgery, which persisted after hysterectomy.

Summary

- Endoanal ultrasound showed normal sphincters in all patients.
- SF 36 scores showed statistical improvement in quality of life following surgery in 8 domains.
- EuroQol also showed improvement.
- Cleveland continence score and bowel scores were unaffected.