



## Has Laparoscopic Surgery replaced open abdominal surgery for benign gynaecological tumours – what and why

Prof Felix Wong  
Ho Chi Minh, April, 2011

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### Laparoscopic training centres, workshops and conferences



Auto Suture



From a training centre  
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From learner



To trainer



To Endoscopy conferences



Foundation Chair and Professor of a UNSW teaching hospital at Liverpool, Sydney and the Director of Women and Children Health, Liverpool Health Service



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### A large number of overseas doctors had been trained at Liverpool



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Factors influencing the choice of open abdominal approach		%
The adnexal mass had feature(s) suspicious of cancer	25	25.7
The adnexal mass was associated with other pathology e.g. very large cyst, multiple fibroids, adenomyoma, advanced endometriosis	34	35.1
The procedure would be difficult by laparoscopic approach	0	-
It was an emergency procedure	9	9.3
The patient was haemodynamically unstable	3	3.1
The laparoscopic procedure would take too long	0	-
Previous multiple abdominal surgeries	6	6.2
My standard/routine surgical approach for this condition	1	1.0
It was a scheduled elective procedure	18	18.6
Laparoscopic facilities in the OT were inadequate	0	-
Other – patient's choice	1	1.0

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## Large ovarian cyst



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## For very large ovarian cyst, just cannot do it ?



- Cannot perform pneumoperitoneum
- Unknown pathology – dermoid cysts, borderline tumour, early cancer
- Rupture the cyst – associated with risk of cancer spread
- No space to operate
- ...etc.

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## Entry at other port site



- Entry problem due to a large ovarian cyst



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## My 'direct entry' method – an introduction

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## Endopath Xcel (J&J)



Direct visualization of the entry  
step/procedure via the monitor



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Direct visualization of all entry procedure via the monitor



Video showing removal of large ovarian tumour



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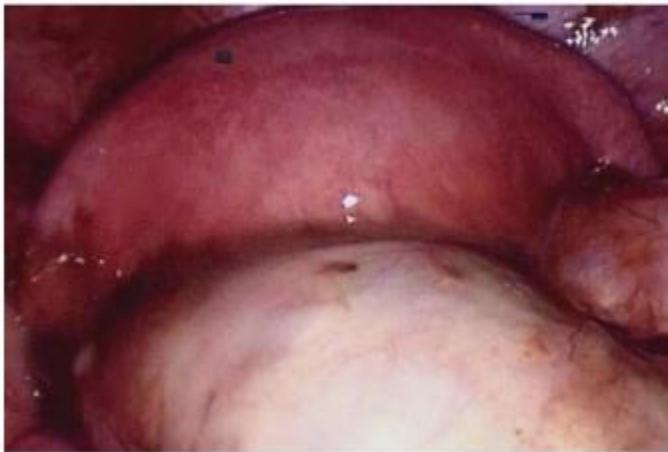
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Advanced pelvic endometriosis



Advanced pelvic endometriosis



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- Techniques to resolve advanced pelvic endometriosis – step 1

**Step 1: dissect the ovarian fossa**



Tips of successful radical excision for advanced pelvic endometriosis - Dr Sun Chung-hsien

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## Advanced pelvic endometriosis

- Techniques to resolve advanced pelvic endometriosis – step 2

### Step 2: unbend the retroverted uterus



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## Advanced pelvic endometriosis

- Techniques to resolve advanced pelvic endometriosis – step 3

### Step 3: Dissect pararectal space



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## Advanced pelvic endometriosis

- Techniques to resolve advanced pelvic endometriosis – step 4

### Step 4: open rectovagina space



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## Advanced pelvic endometriosis

- Techniques to resolve advanced pelvic endometriosis – step 5-6

### Step 6: dissect pelvic ureter



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## To share the

techniques to resolve the hurdle  
of difficult laparoscopic  
hysterectomy

## Large fibroid uterus

- Laparoscopic morcellation in situ
- Vaginal morcellation of uterus after control of blood supply



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Laparoscopic morcellation of  
in situ fibroid(s)



Morcellation in situ - Pushing  
the limit



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Laparoscopic removal of very large myomas

Patients: 51 with fibroid(s) = or > 9cm, max 21 cm  
• Weight of fibroids: mean 698 g (210 – 3400 g)  
• Mean op time: 136 min (80-270)  
• Blood loss: mean 322 ml (100-2100 ml)  
• Complications: one broad ligament hematoma, one emergency hysterectomy

Sinha R, Hegde A, Warty N, Patil N. Journal of the American Association of Gynecologic Laparoscopists. 10(4):461-8, 2003 Nov

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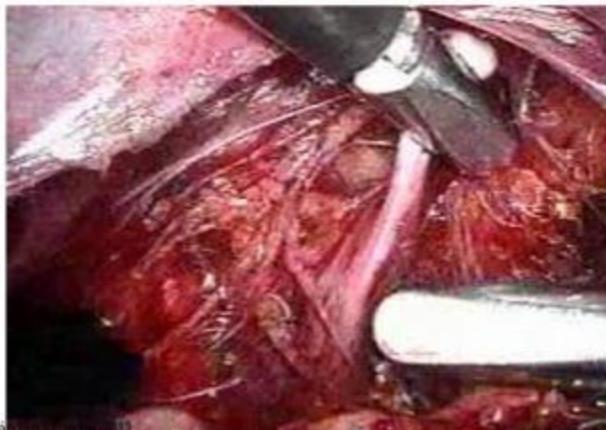
## Techniques to perform LAVH with reduced bleeding



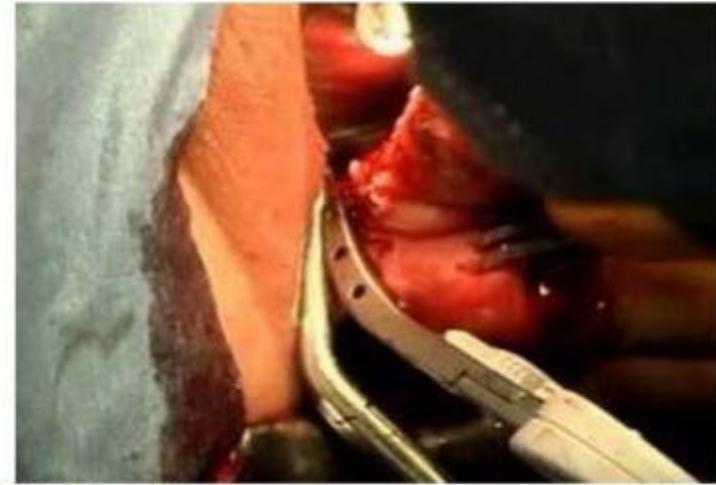
## The use of new instruments



Ligation of bilateral uterine arteries prior to hysterectomy



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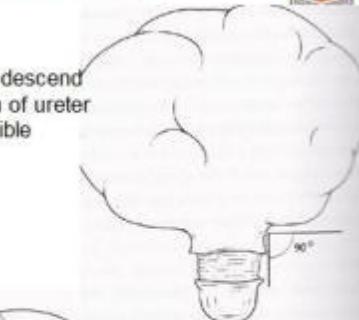
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## Shape of large uterus



Difficult  
Failed to descend  
Distortion of ureter  
Inaccessible



Easier  
Accessible  
Normal anatomy



## Dr Eric Lee's technique to perform LAVH with large fibroid uterus



- LAVH completed by vaginal morcellation with a paper roll technique



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## Report on our paper roll technique



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## Changes and new developments in abdominal surgery



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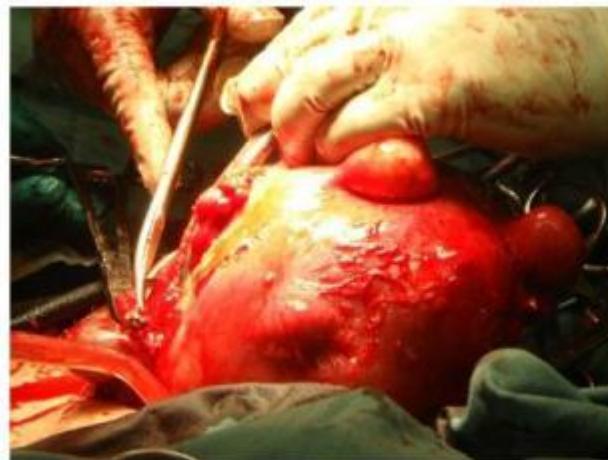
## Abdominal hysterectomy is acceptable in very large uterus – general consensus



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## Uterus larger than 24 weeks



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## Conclusion

- There is a trend of increasing laparoscopic surgery for benign gynaecological tumour because
  - Advanced technologies help – faster, safer and effective surgery
  - Many endoscopy centres push to the limit – developing new techniques
  - More training among young doctors – start early



## Conclusion

At present, not all gynaecological surgeries are being replaced by laparoscopic surgeries in the management of benign tumour

e.g.

Abdominal hysterectomy  
versus  
Laparoscopy hysterectomy

Individualize each patient  
versus  
Choices of surgeons

Pathology of the tumour  
Pelvic adhesion  
Other relative contraindication  
Time/duration

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**Primum, Noli Nocere**  
**– first do no harm**



**END**

**When the surgery and the patient for  
surgery are made safe, let now the  
surgeon make himself safe for his body  
and mind**

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