Derby Gynaecological Cancer & Laparoscopic surgery Centre

**Gynaecological Oncology Symposium** 



**NHS Foundation Trust** 

# Surgical management of Endometrial cancer

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**Objective** 

- Surgical management
  - Procedure performed
    - Oophorectomy
    - Peritoneal fluid cytology
    - Lymphadenectomy
    - Radical hysterectomy
    - Omentectomy/ Debulking surgery
- Evolution in management
  - Laparotomy
  - Vaginal
  - Laparoscopic
  - Robotic
- Derby practice

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#### FIGO Staging 2009

Stage I	Tumour confined to the corpus uteri
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IA No or less than half myometrial invasion

IB Invasion equal to or more than half of the myometrium

Stage II Tumour invades cervical stroma, but does not extend beyond the uterus

- Stage III Local and/or regional spread of the tumour
  - IIIA Tumour invades the serosa of the corpus uteri and/or adnexae
  - IIIB Vaginal and/or parametrial involvement
  - IIIC Metastases to pelvic and/or para-aortic lymph nodes
  - IIIC1 Positive pelvic nodes
  - IIIC2 Positive para-aortic lymph nodes with or without positive pelvic lymph nodes
- Stage IV Tumour invades bladder and/or bowel mucosa, and/or distant metastases
  - IVA Tumour invasion of bladder and/or bowel mucosa
  - IVB Distant metastases, including intra-abdominal metastases and/or inguinal lymph nodes

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### Patient factors

- Age
- Medical co-morbidity
  - Diabetes
  - Cardiac
- Raised BMI >50- 60
- Previous surgery
- ? Dementia
- Anaesthetic issues- Anaesthetic review pre-op







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### Hysterectomy

- Remove central disease
- Cervix & fallopian tubes
- Types:
  - Simple
  - Radical
- Route







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# Radical hysterectomy

 Some studies suggest improved prognosis in stage 2 disease



- Sartori et al & Cohen et al show improved survival with Radical hysterectomy vs simple hysterectomy (94% vs 75%)
- Consider in cases with cervical involvement



Sartori et al, IJGC, 2001 Cohen et al, , Obs & Gynae , 2007





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### **Role of Oophorectomy**

- Rationale
  - Staging (5-13% involvement)
  - Remove synchronous tumours
  - Remove oestrogen stimulation



• No evidence detrimental outcome of leaving ovaries











# Role of peritoneal fluid cytology

- Not independent prognostic factor in stage 1-2 disease
- New FIGO staging does not include
- Done routinely previously
- Some studies suggest cytology based stage 3a same outcome as stage 1









# Role of Lymphadenectomy

- Diagnostic for staging
- Therapeutic?
- Controversial
- Risk of +ve node related to
  - Grade
  - Myometrial invasion
  - Tumour Size > 2cm
- Grade 1 No Invasion- < 5% pelvic nodes
- Grade 2& 3 < 50 % invasion- 5-9% pelvic, 4% PA
- Grade 2, 3>50% invasion- 20-60% pelvic & 20%PA





Cx Stromal invasion Age





# **ASTEC Trial Design**

Endometrial cancer, thought pre-operatively to be confined to the corpus











# Surgery Trial Profile



97% of women were recruited from the UK

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# Conclusions of ASTEC surgical trial & Implications

- No evidence that lymphadenectomy improves overall survival or disease specific survival
- Trend for recurrence free survival to be poorer in lymphadenectomy patients
- Lymphoedema greater in lymphadenectomy
- Only role of lymphadenectomy appears to be for surgical staging







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# **Criticism of ASTEC**

- Low LN counts
- Difference in baseline of 2 groups
- Radiotherapy use affects results
- Large number of Low risk cases









### **Other Studies**

- Retrospective
- Chan et al- 12,333 patients- Found improved survival in lymphadenectomy group in 1B, G3 and above







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# What should we do??

- Low risk- No Lymphadenectomy
- Intermediate risk- Pelvic Lymphadenectomy
- High Risk- Pelvic + PA nodes?







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# Sentinel Lymph Nodes

- Inject Cx
  - Blue Dye
  - Technetium- 99
- Reduce Morbidity
- Identify PA nodes
- Watch this space!!

	Royal College of Obstetricians & Gynaecologists
Sentinel Lymph Node B in Endometrial Cancer	liopsy
Scientific Impact Paper No. 51 July 2016	









#### Route

- Open- Standard previously
- Laparoscopic
  - LAVH
  - LH
  - TLH
  - LRH
- Vaginal- Maybe for High BMI









#### History of Laparoscopic hysterectomy

- First laparoscopic hysterectomies
  - LAVH, Reich, 1989
  - TLH, Reich, 1993 (22 years ago!)
  - First series of around 200 cases, Chapron, 1997
  - First TLH Derby 2008- Now personal series 450

Reich, H, DeCaprio, J, McGlynn, F. Laparoscopic hysterectomy. J Gynecol Surg 1989; 5:213. 18 pride in caring







### **Benefits**

- Shorter hospital stay
- Less pain relief
- Quicker return to normal activities
- Reduced short and medium term morbidity
  - Infection
  - Thrombosis
- Fewer long term effects
  - Scar
  - Adhesions
- Cost Effective (Hidden costs of morbidity / earlier return to work)

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Risks

- Increased operating time
- Training required
- Learning curve more difficult
- Hand Eye co-ordination
- Consumables more expensive
- 2D image
- Operator fatigue







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# The evidence

- Cochrane review
  - Shorter postop complications, Hospital stay
  - Longer operating time
  - No Difference in survival
- Hysterectomy + BSO + PLN + PA ND
- 74% had completion procedure lap











# Changing surgical management







### **TLH Video**









### **Robotic surgery**

- Review BJOG Jan 2009
- 1985 stereotactic brain biopsy
- 1997 Tubal anastamosis



















# **Robotic Surgery**

- Advantages
  - Camera stability
  - Improved dexterity
  - Better ergonomics
  - Eliminate tremor
  - Eliminate fulcrum effect

- Disadvantages
  - High costs
  - Bulky difficult to access patient
  - No tactile feedback
  - Surgeon separation
  - New technology









### Robotic vs laparoscopic

- Robotic surgery
  - Less blood loss
  - Fewer conversion to open surgery
  - Less access to para-aortic LNs
  - Less cost effective
  - More port sites
  - Diathermy vs Advanced energy devices









### **Advanced disease**

- No agreed standard Rx
- 15% women have extra-uterine disease
- Median survival
  - Optimal debulked< 2cm- 31months</li>
  - Suboptimal 12months
  - No debulking- 3 months
- Use of neoadjuvant Rx being investigated









# **Recurrent disease**

- Radiotherapy if None previously
- Exenetration- for central isolated recurrence
- Optimal debulking improves survival (43 vs 10 months)

Awtery et al, Gynae Oncology, 2006 Bristow et al, Gynae omcology 2006 Arlin et al , Gynae Oncology, 2010









**Derby practice** 

- All cases discussed at MDT
- MRI on all
- Laparoscopic management unless indication against
- TLH + BSO +/- PLND
- More radical surgery for advanced disease









### **Derby Practice**

- Laparoscopic management standard for all patients
- 2017>85% cases managed laparoscopically
- Procedures include
  - TLH / LAVH/ LRH
  - Lap PLND/ PA LND
  - Lap Omentectomy

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# **Summary**

- Management of endometrial cancer has evolved
  - Individualised treatment
  - MDT
  - Laparoscopic management standard
  - More radical surgery for advanced disease
  - Role of lymphadenectomy- Individualised
  - Setinel Lymph Node Biopsy



