

Gynecologic Cancer Surgery at HFHS

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Gynecologic Oncology

Improving treatment

- Improved cure rates
- Longer survivals
- Better tolerance of therapy
- Reduced side effects
- Better quality of life

Minimally Invasive Surgery

- Reduced complication rates
- Reduced length of stays
- Reduced recovery time

- Comparable surgical outcomes
- Comparable recurrence rates
- Comparable survivals

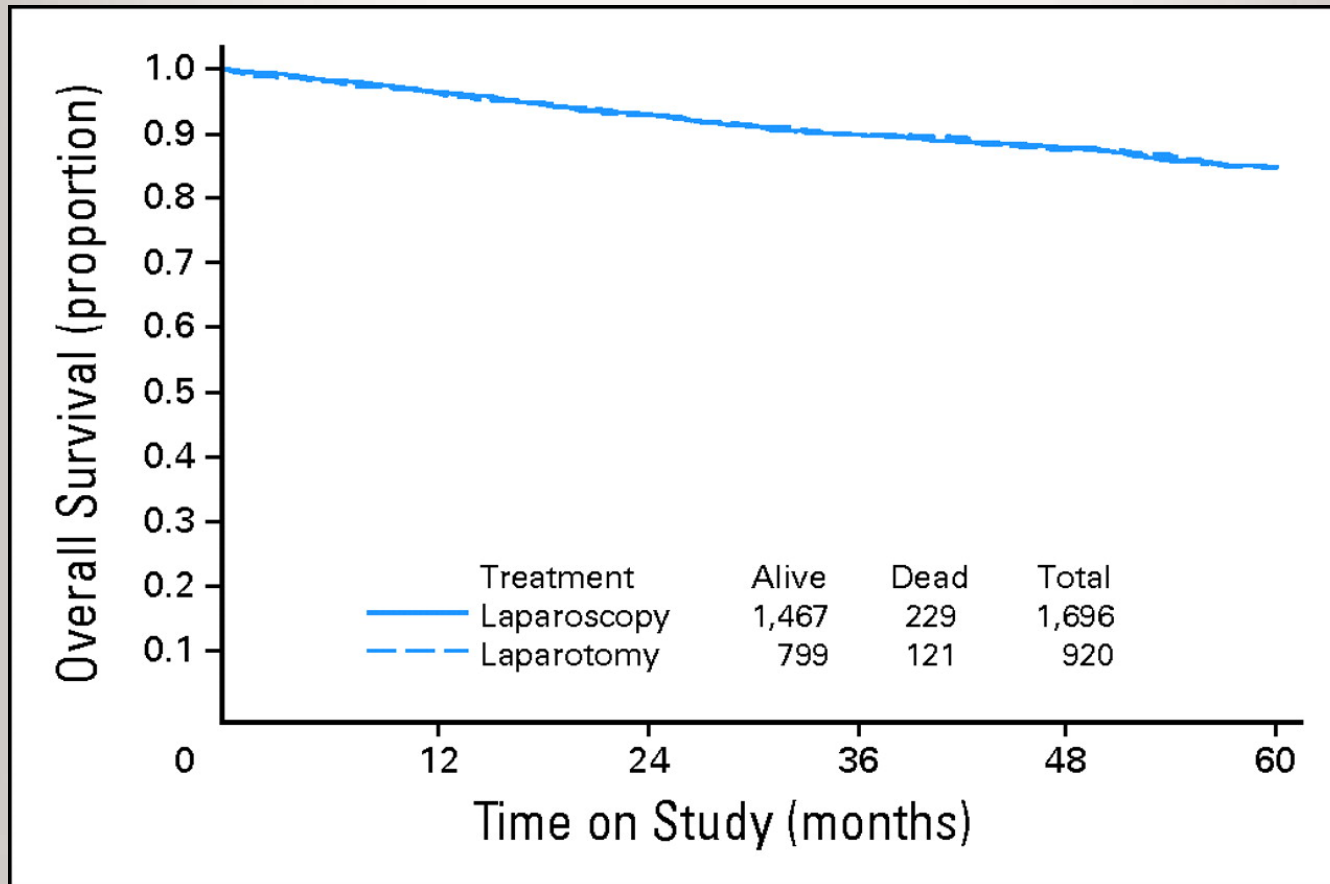
Complications:

Laparoscopy Compared With Laparotomy for Comprehensive Surgical Staging of Uterine Cancer: Gynecologic Oncology Group Study LAP2

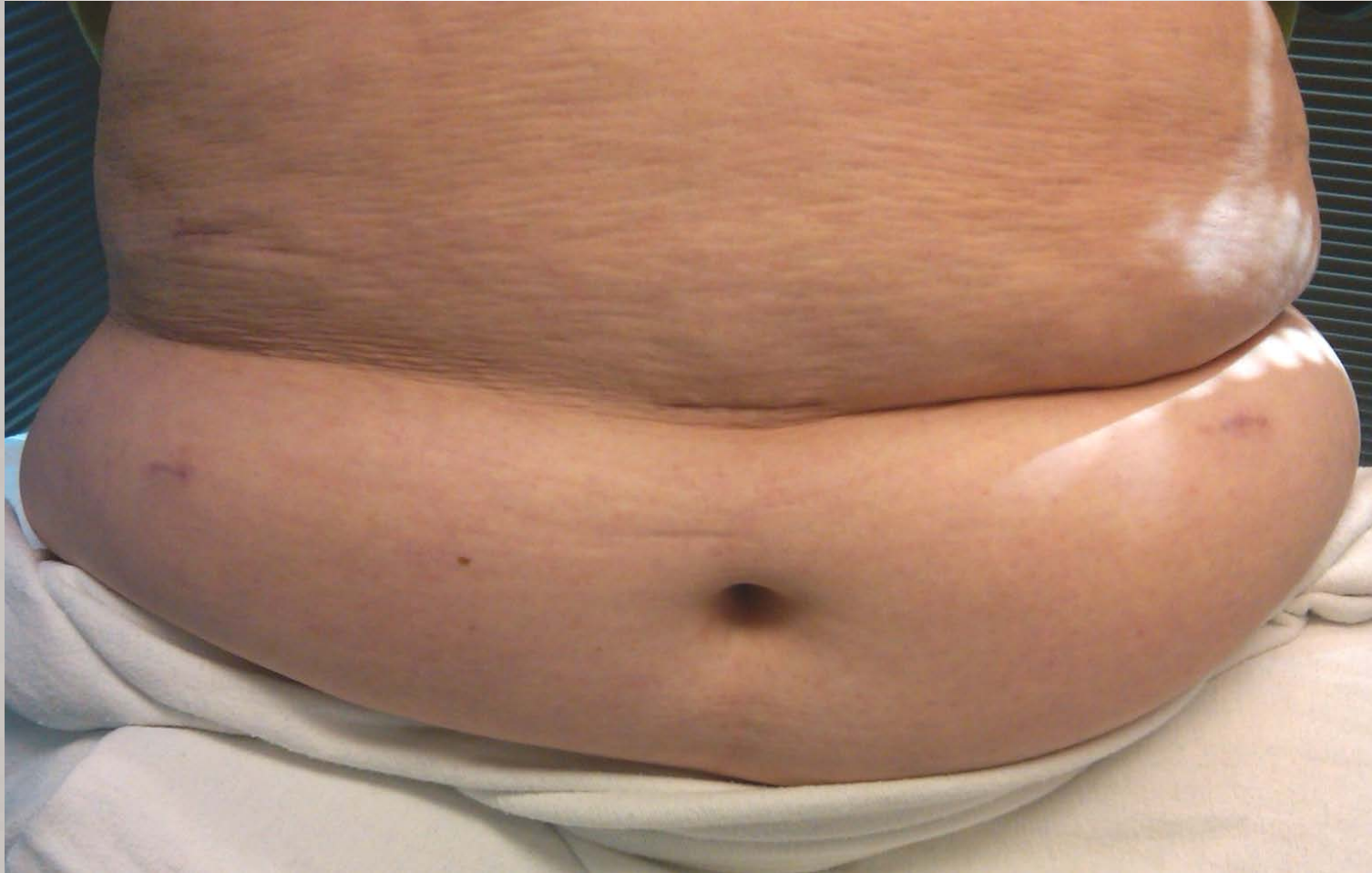
Complication	Laparotomy %	Laparoscopy %	P - value
Intraoperative, any	8	10	0.106
Postoperative, any	21	14	<0.001
<i>UTI</i>	3	2	-
<i>Fever</i>	4	3	-
<i>Ileus</i>	8	4	-
<i>Wound Infection</i>	4	3	-
Antibiotics	23	16	<0.001
Hospital stay > 2 days	94	52	<0.001



Overall survival by randomly assigned treatment group.



Robotic Surgery Results



HFHS Experience

- Robotic endometrial cancer cases: 130
- Endometrial cancer patients treated via minimally invasive surgery: 80%
- Average length of stay: 1.5 days

Lymphedema

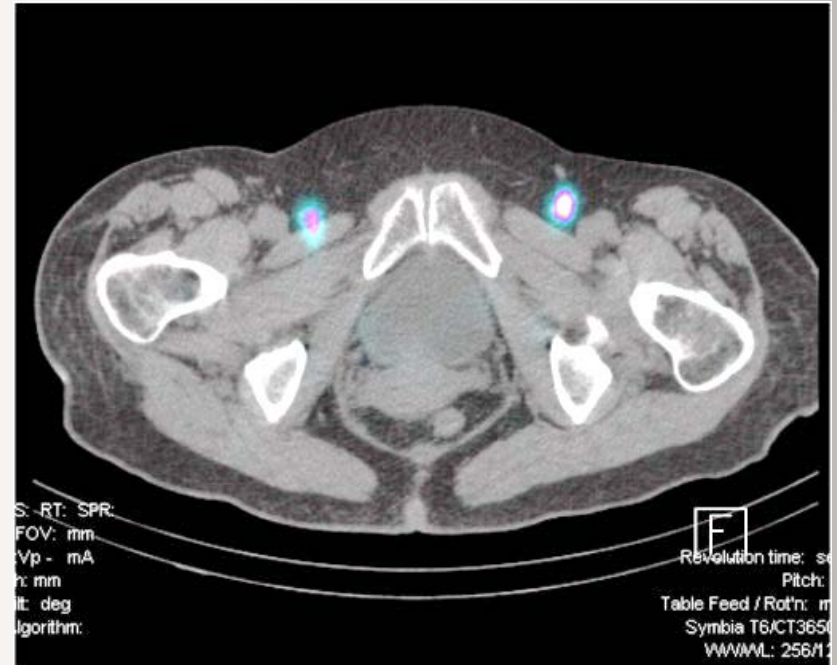
- Grade 2 or 3 lymphedema (>3cm increase in diameter) in vulvar cancer patients after inguinal lymphadenectomy: 63.5% (87/137)



Sentinel Lymph Node Biopsy:

Vulvar Cancer

- Detection rates:
 - 94.0% (95% CI, 90%–96%) for technetium Tc 99 m alone
 - 68.7% (95% CI, 63%–74%) for blue dye alone
 - 97.7% (95% CI, 96%–98%) for 99mTc plus blue dye
- False-negative rates:
 - 7.8% for radiocolloid alone
 - 2.0% for dye alone
 - 1.6% for radiocolloid plus blue dye



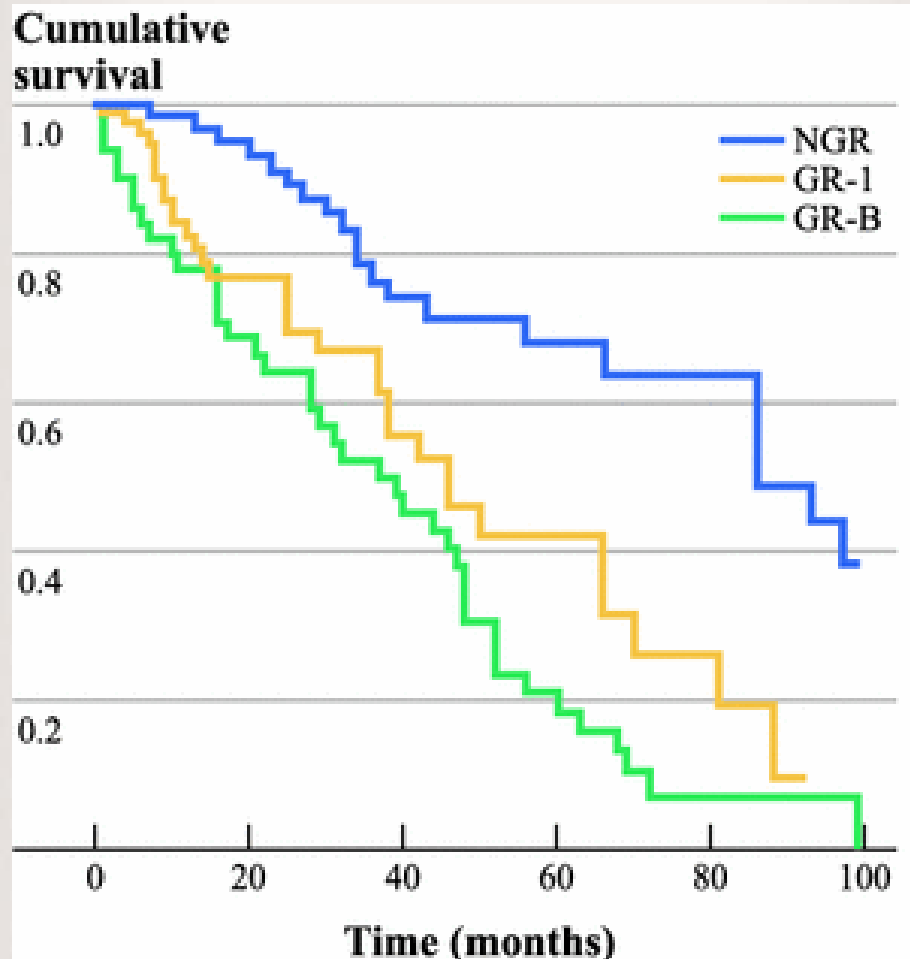
Meads C., Sutton A.J., Rosenthal A.N., et al: Br. J. Cancer 2014; 110:2837.

Levenback C.F., Ali S., Coleman R.L., et al: J. Clin. Oncol. 2012; 30:3786.

R0 Resection

- Improved survivals for ovarian cancer patients
- Extensive surgery is often required to achieve this goal:
 - Splenectomy
 - Diaphragm resection
 - Hepatic wedge resection
- Requires more intense postoperative care

Impact of Complete Cytoreduction Leaving No Gross Residual Disease Associated with Radical Cytoreductive Surgical Procedures on Survival in Advanced Ovarian Cancer



Where are we going?

- Bariatric surgery for endometrial cancer patients
- Sentinel node biopsy for endometrial and cervical cancer patients
- Laparoscopic evaluation in ovarian cancer with possible neo-adjuvant chemotherapy

Questions?

