Fertility-sparing Treatment of Early Cervical Cancer

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Incidence of Cervical Cancer

Australia

Lifetime risk - 1:183 (approx. 750 new cases p/a).

- 2002 NSW 210 cases
- 2002 Queensland 162 cases

28% of cervical cancers are diagnosed in women prior to the age of 40 years (Australia).

Fertility aspects are an important issue!

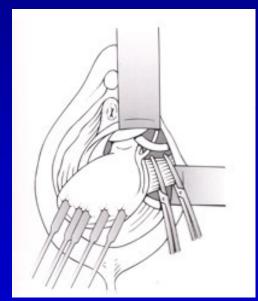
Need for Fertility-Sparing Sx.

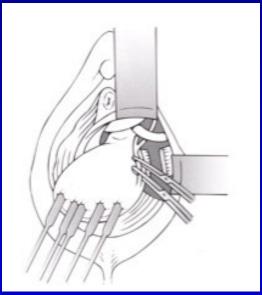
TOTAL QLD 2004	142
Age < 40 years	40 (28%)
Stage 1a (NOS)	3
1a1	9
1a2	2
1b (NOS)	1
1b1	11
1b2	4
Stage 2+	10
Fertility Sparing	26 of 41

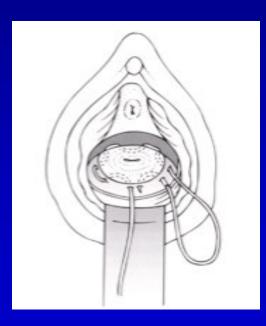
13 patients

"Radical Trachelectomy" Removal of Cervix & Parametria but PRESERVE the Uterus

Panel 1 Panel 2 Panel 3







Vaginal approach

Dargent D et al.: Cancer 2000; 88:1877-82

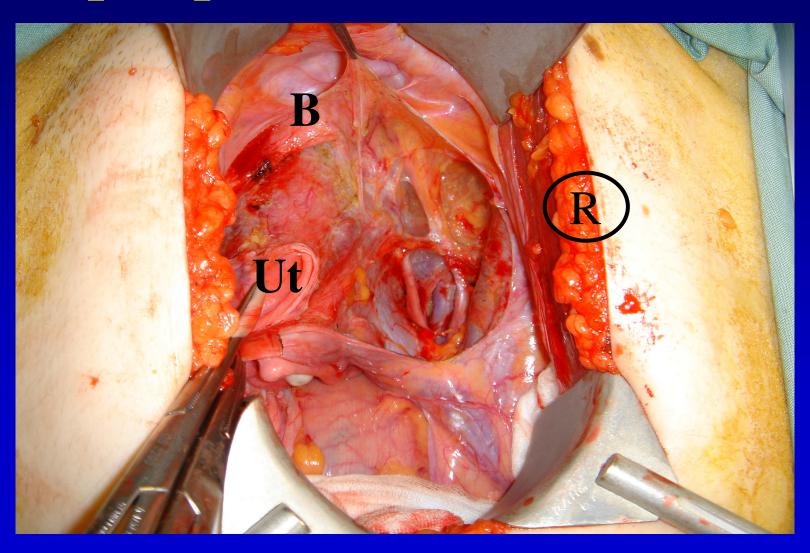
Radical Abdominal Trachelectomy

Hungarian and U.S. approach:

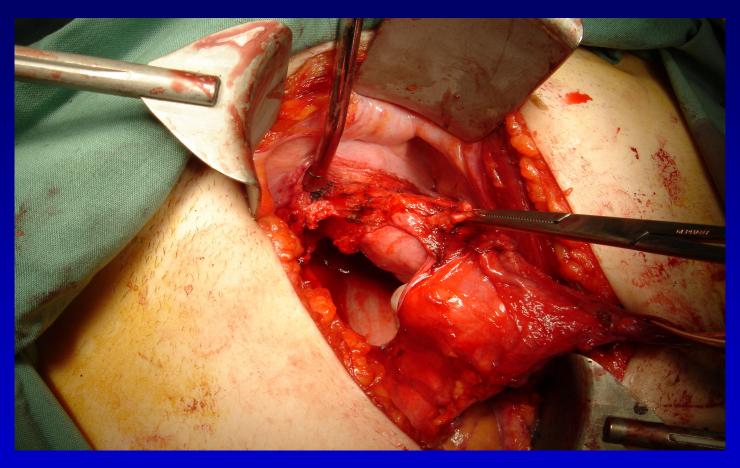
- Laparotomy,
- Round lig. divided enter retroperitoneum,
- Comprehensive PLND (similar to rad hyst) \pm f/s,
- Uterine vessels divided at their origin,
- Ureter lateralised & parametria dissected,
- Transection of corpus and upper 1/3 of vagina,
- Proximal vagina re-attached to uterine corpus.

Ungar L et al.: BJOG 2005; 112:366-9

Open pelvic side wall, PLND

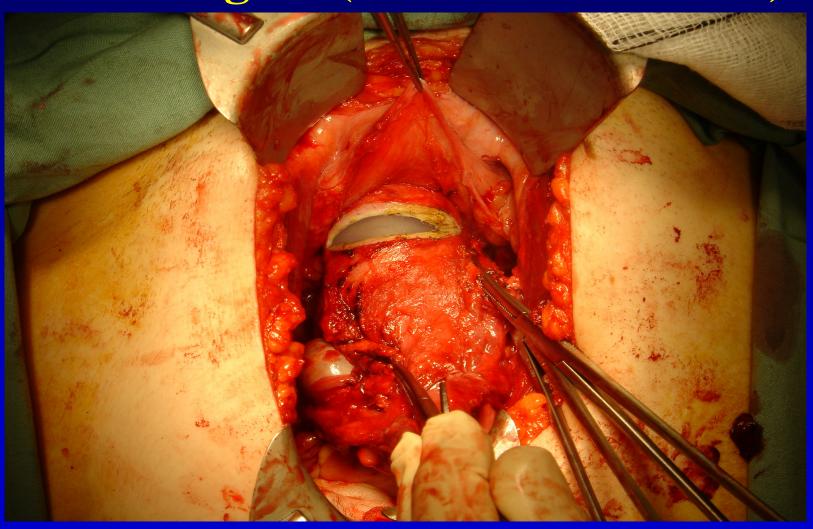


Dissect parametria

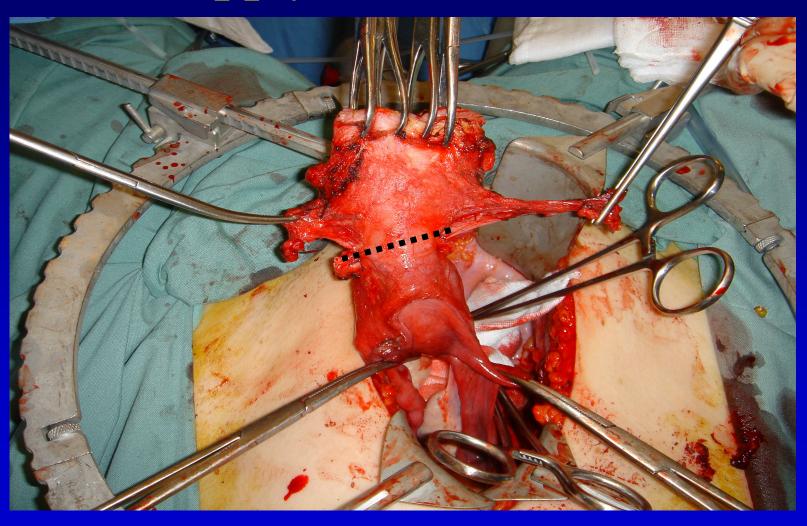


Blood supply for uterus depends on ovarian pedicle

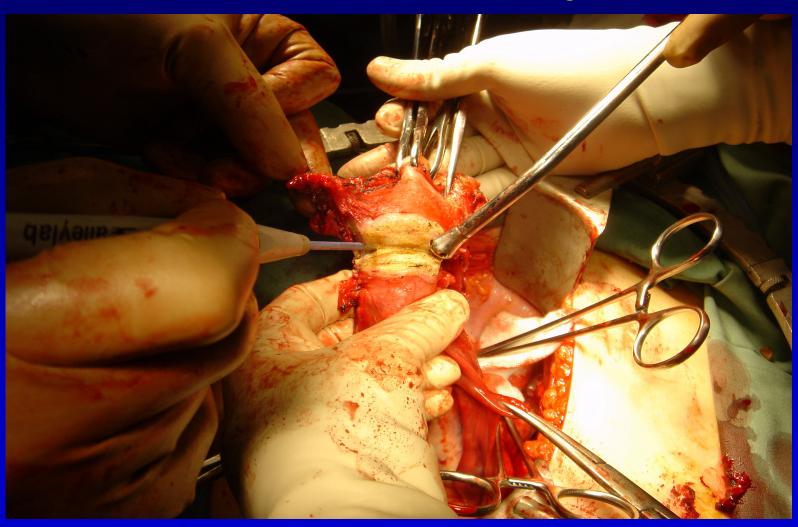
Divide vagina (lower resection m.)



Blood Supply from Ovarian Pedicle



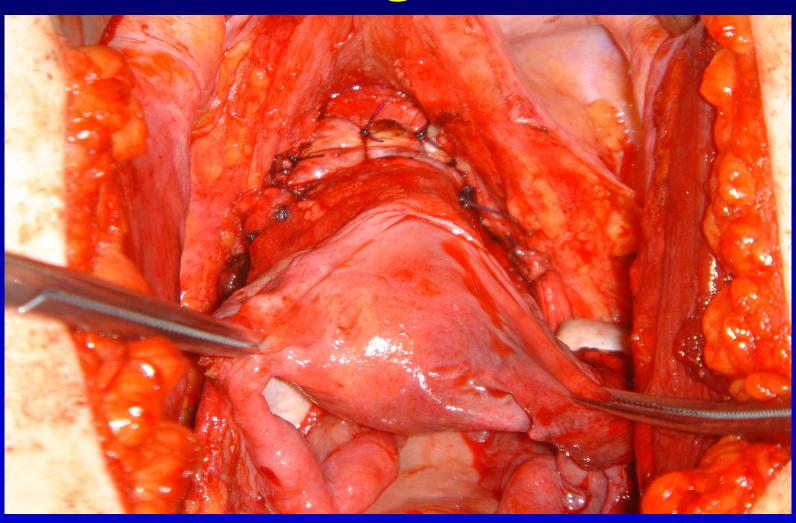
Divide utero-cervical junction



Specimen



Re-attach vagina to uterus

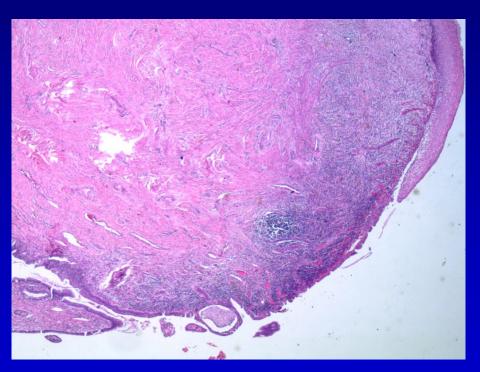


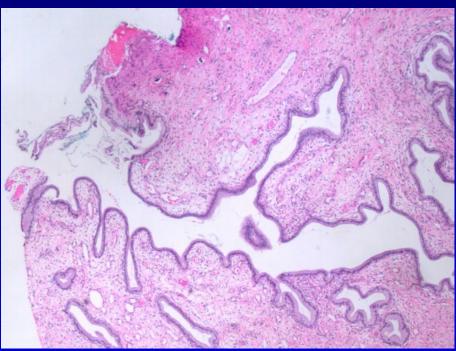
Before and after





Histology





Specific Issues of Rad. Trachelectomy

- Indications and Limitations
- Sexual Quality of Life
- Smears postoperatively
- Recurrences
- Obstetrical outcome
- Consenting

Indications and Limitations

Indications:

- SCC or Adeno Ca.
- Wish to retain fertility
- In pregnancy

Limitations:

- Tumour size ~ 3cm
- Positive margins*(corpus)
- Lymph nodes

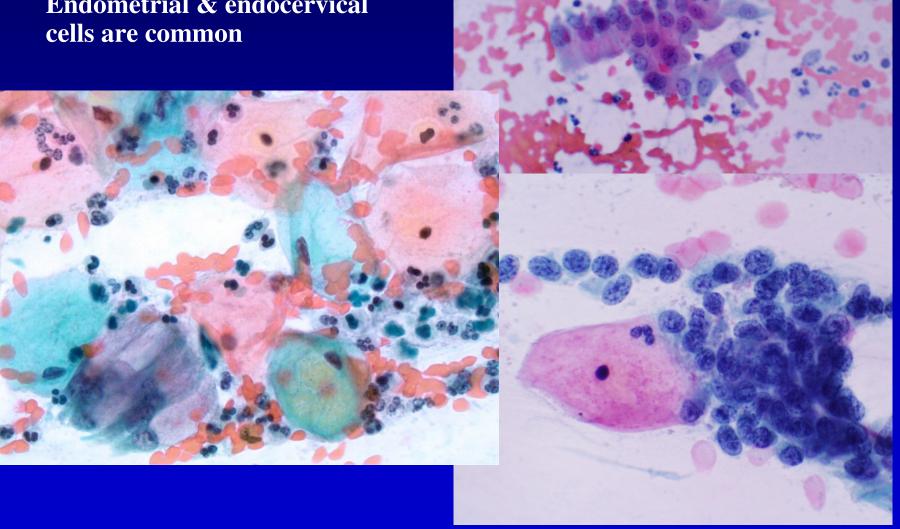
* Frozen section: upper – corporal – margin is important

Sexual Quality of Life

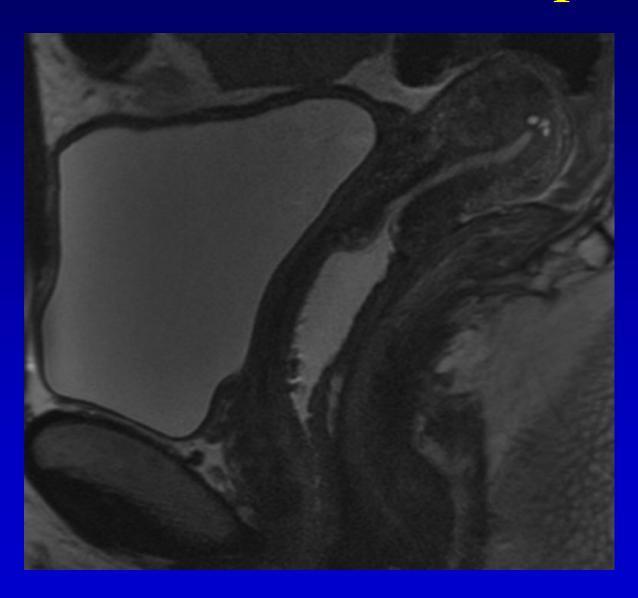
- Menstrual Patterns normal
- Sex life unchanged

Smears after radical trachelectomy

Endometrial & endocervical



Follow Up



@ 9 months

Recurrences

- 400 published cases of Rad Trach. to date
- Low recurrence rate 3%
 - 10 cases published to date
 - Large tumours
 - Aggressive tumours

Obstetrical Results (n=72, Quebec)

- Series of 72 patients, 50 pregnancies
- 31 pts. (43%) conceived
- 41 pts (57%) did not conceive
 - Died of disease
 - Definitive hysterectomy
 - Radiotherapy1
 - Infertility
 - No desire to conceive 33 (80%)

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Obstetrical Results (n=72, Quebec)

Obstetrical outcome (50 pregnancies)

First trimester miscarriage	8 (16%)
Second trimester miscarriage	2 (4%)
Third trimester deliveries	36 (72%)
Therapeutic abortions	2 (4%)
Currently pregnant	2 (4%)

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Obstetrical Results (n=72, Quebec)

Third Trimester Outcome (n=36)

< 32 weeks ^a	3 (8%)
32 to 36 weeks	5 (14%)
≥37 weeks ^b	28 (78%)

a at 25, 28, 31 weeks; b elective caesarean section

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Information for Patients

- 1. Experimental limited experience
- 2. Aim of procedure ~ preserve fertility
- 3. Possible complications ~ rad hyst
- 4. If LN +ve >> abandoning procedure >> XRT
- 5. If margins +ve >> radical hysterectomy
- 6. Obstetrical results encouraging no guarantee
- 7. Delivery = elective caesarean section 37 weeks

Conclusion

Radical trachelectomy is a viable alternative option to radical hysterectomy in selected patients.