

An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

Role of Surgery in Cervical Cancer & Research Questions

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Role of surgery in cervical cancer

- •Diagnosis : for early, microscopic lesion
- •Primary treatment : for early stage
- •Surgical staging : for advanced stage
- Treatment for recurrence

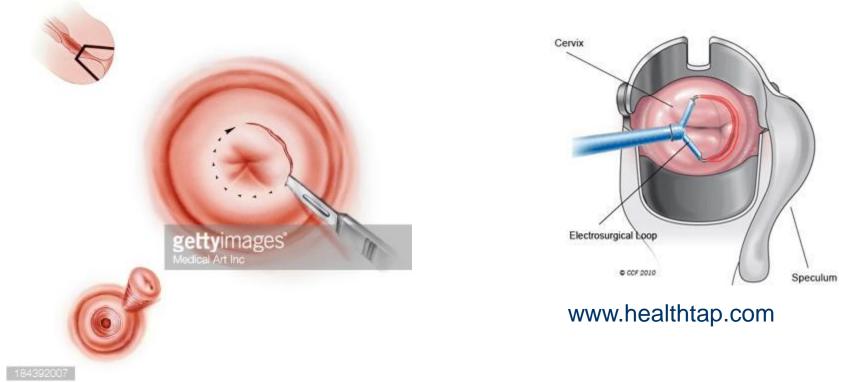
Diagnostic role for early cervical cancer



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Cold knife conization (CKC)

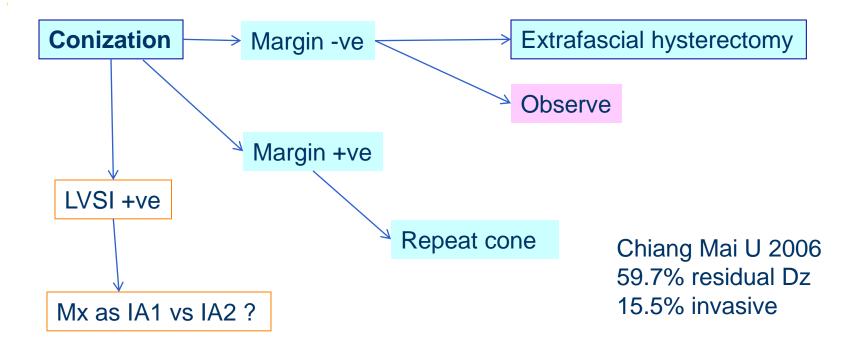
Large loop excision of transformation zone (LLETZ)/ Loop electrosurgical excision proccedure (LEEP)



Stage IA1 (\leq 7mm, \leq 3mm inv)



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Gynecologic Cancer InterGroup Cervix Cancer Research Network Stage IA2 (<7mm, <5mm inv)

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Modified Radical Hysterectomy + Pelvic Lymphadenectomy

Simple Hysterectomy ? + Pelvic Lymphadenectomy - SHAPE

Radical Trachelectomy + Pelvic Lymphadenectomy

Conization ? + Lap. Pelvic Lymphadenectomy

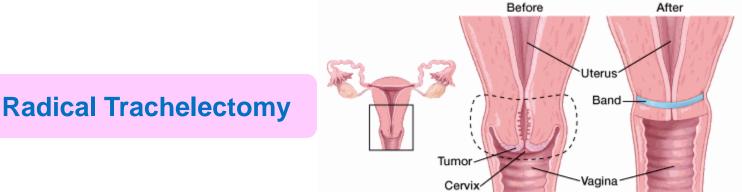
Para-aortic LN Sampling ? Sentinel LN Mapping ?

Gynecologic Cancer InterGroup Cervix Cancer Research Network Stage IA2 (<7mm, <5mm inv)

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http://www.cancer.org/cancer/cervicalcancer/detailedguide/cervic al-cancer-treating-surgery

Cervix Cancer Education Symposium, January 2016, Bangkok, Thailand

Modified Radical Hysterectomy

Gynecologic Cancer InterGroup Cervix Cancer Research Network Stage IB1/IIA1 (7mm – 4cm)

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Radical Hysterectomy + Pelvic Lymphadenectomy

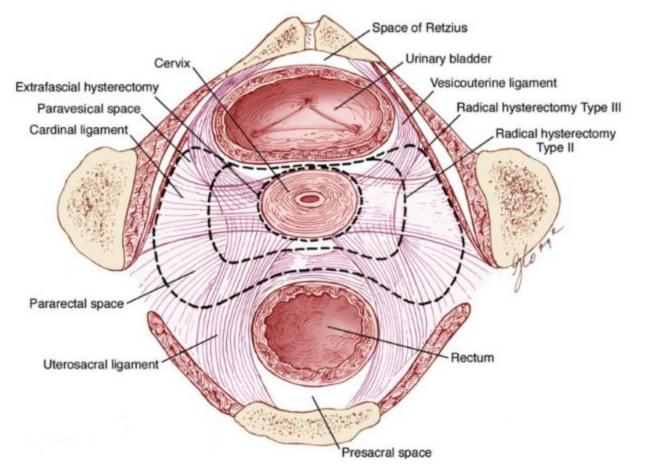
Lap/Robot vs Abdominal ? – LACC (MD Anderson&Queensland)

Radical Trachelectomy + Pelvic Lymphadenectomy (IB1, prefer < 2cm)

Para-aortic LN Sampling ? Sentinel LN Mapping ?

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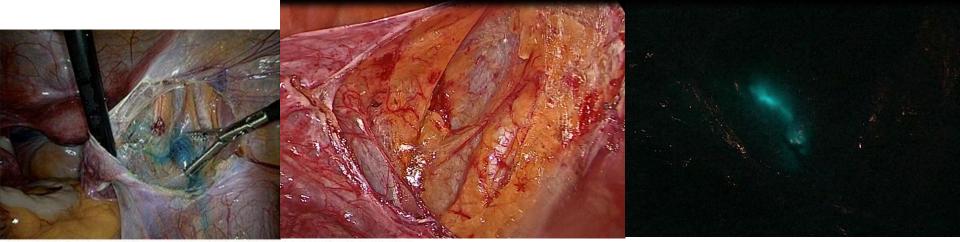


Berek & Hacker's Gynecologic Oncology. 6th Ed 2015

Gynecologic Cancer InterGroup Cervix Cancer Research Network Sentinel LN Mapping

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Source: B. Y. Karlan, R. E. Bristow, A. J. Li: Gynecologic Oncology: Clinical Practice and Surgical Atlas www.obgyn.mhmedical.com Copyright © McGraw-Hill Education. All rights reserved.

Lekskul N& Lertkhachonsuk A 2015

- Ultrastaging
- SENTICOL / AGO
- Metaanalysis (Kadkhodoyan S, et al. Eur J Surg Oncol 2015) 67 studies:
 - Detection rate 89.2% [86.5-91.6%]
 - Sensitivity 90% [88-92%], frozen section 59.9% [52.5-66.9%]
 - Small tumor size & lower stage ensure lowest false negative rates.
 Cervix Cancer Education Symposium, January 2016, Bangkok, Thailand

Gynecologic Cancer InterGroup Cervix Cancer Research Network Stage IB2 (5 4 cm)

Stage IB2 (>4cm)

CCRT

RHND → Tailored adjuvant RT

CCRT → adjuvant hysterectomy

NACT → RHND

Cervix Cancer Education Symposium, January 2016, Bangkok, Thailand

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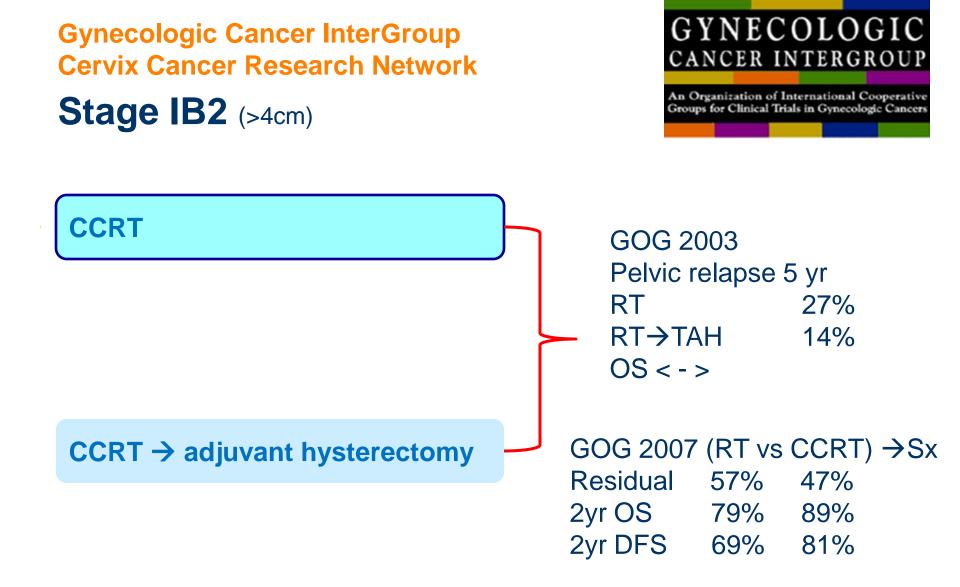
Stage IB2 (>4cm)

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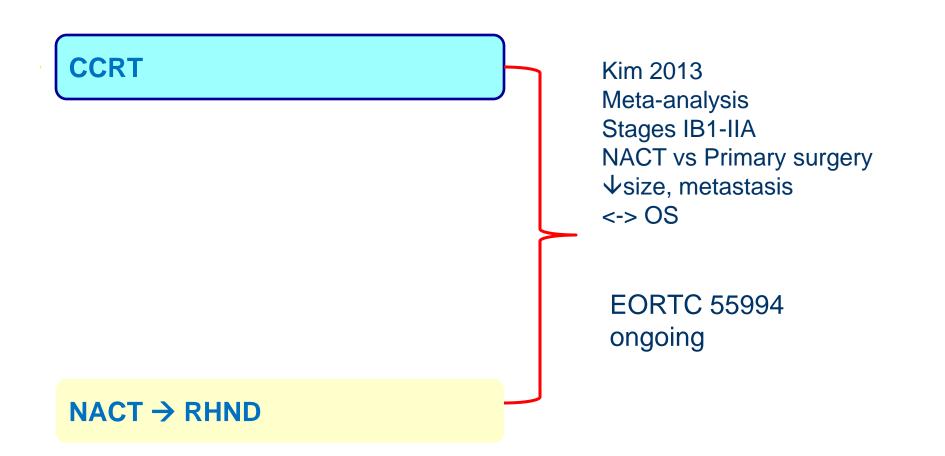
Accurate staging Preserve ov function



Gynecologic Cancer InterGroup Cervix Cancer Research Network Stage IB2 (>4cm)

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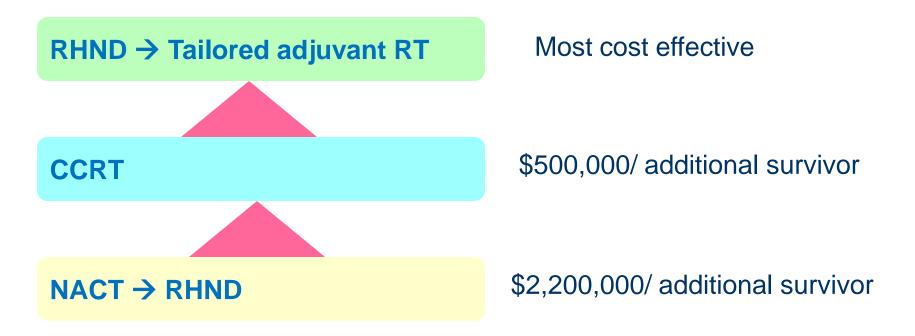


Gynecologic Cancer InterGroup Cervix Cancer Research Network Stage IB2 (>4cm)



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Cost-effectiveness Analysis (Rocconi et al 2005)



Gynecologic Cancer InterGroup Cervix Cancer Research Network "Surgical Staging"



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- 1RCT: Clinical vs Surgical: Lai CH. Gynecol Oncol 2003
 - Early termination (n=61): surg worse: HR relapse 3.13 [1.42-6.89](p=0.005), mortality 1.76 [0.81-3.79](p=0.150)
- Retrospective GOG 85+120+165: Gold MA. Cancer 2008 n=555
 - Radio worse: HR progress 1.35 [1.01-1.81], mortality 1.46 [1.08-1.99]
- Ongoing trials
 - GOG233/ACRIN6671: PET/CT vs lymphadenectomy
 - LiLACS (Lymphadenectomy in Locally Advanced Cervical cancer Study) Frumovitz M & Querleu D: PET/CT vs min. inv. extraperit. lymphadenectomy

Gynecologic Cancer InterGroup Cervix Cancer Research Network Management of Recurrent

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Isolated localized pelvic recurrence



https://en.wikipedia.org/wiki/Pelvic_exenteration

Small recurrence in cervix after RT

Radical hysterectomy

5-yr Survival 25-84% Major morbidity 31-75%

5-yr Survival 20-64%

Mortality <5(0-16)%

Major morbidity 50%

IORT?

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Research questions

- Management of stage IA1 c LVSI
 As IA1 or IA2 ?
- Less radical surgery in early stage
 Primary lesion ? / Lymph nodes ?
- Sentinel LN Mapping ?
- Optimal management of stage IB2
 Upfront CCRT / RHND / NACT ?
- Surgical staging in advanced stage ?