



Princess Margaret Consortium

GYNECOLOGIC  
CANCER INTERGROUP

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

D<sup>U</sup>T<sup>T</sup>C<sup>H</sup>G<sup>O</sup>G  
Dutch Gynaecological Oncology Group

NETHERLANDS  
CANCER  
INSTITUTE  
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Stage IB1 (2-4 cm) **C**ervical cancer treated  
with **N**eadjuvant chemotherapy followed by  
fertility **S**paring **S**urgery (**CONTESSA**)

Dre Marie Plante

**N**eo-Adjuvant Chemotherapy and **C**onservative Surgery  
in Cervical Cancer to Preserve **F**ertility (**NEOCON-F**)

Dr Frédéric Amant

# Background

➤ How to best manage young women with **larger** size lesions/bulky IB1 (2-4 cm)

- ▣ Preservation of **fertility** and **ovarian** function
- ▣ **Oncologic** outcome
- ▣ **Obstetrical** outcome

# Background

• **Management options** for patients with larger size lesions

- **Upfront Radical Trachelectomy**
- **NACT followed by fertility-preserving surgery (FPS)**

# Abdominal Trachelectomy

- ∞ ART can be performed in **larger size lesions**
- ∞ **Wider parametria** and **more radical** surgery can be obtained with ART
  - Increased surgical morbidity
  - Reduced fertility outcome

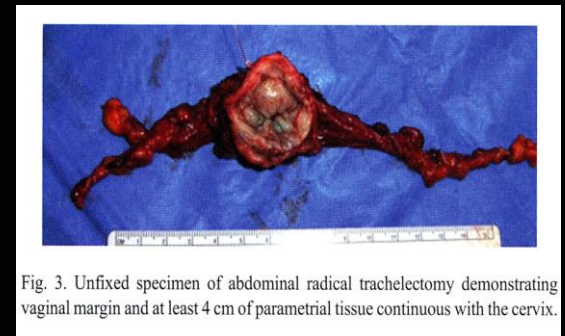


Fig. 3. Unfixed specimen of abdominal radical trachelectomy demonstrating vaginal margin and at least 4 cm of parametrial tissue continuous with the cervix.

# Robotic Trachelectomy

LACC TRIAL ?????



Courtesy; Dr Taymaa May

# Upfront Trachelectomy

↪ Associated with high rates of **adjuvant radiation therapy**

↪ Huge impact

- ▣ Fertility
- ▣ Ovarian function
- ▣ QoL

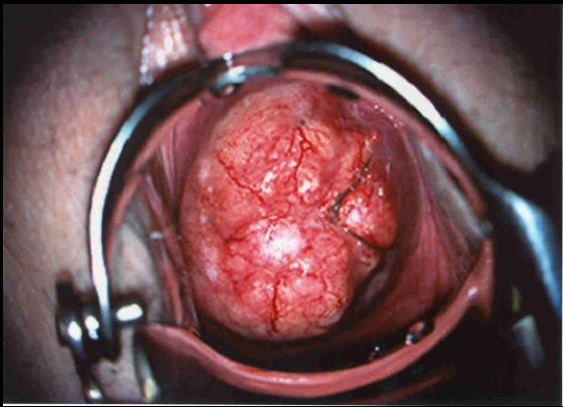
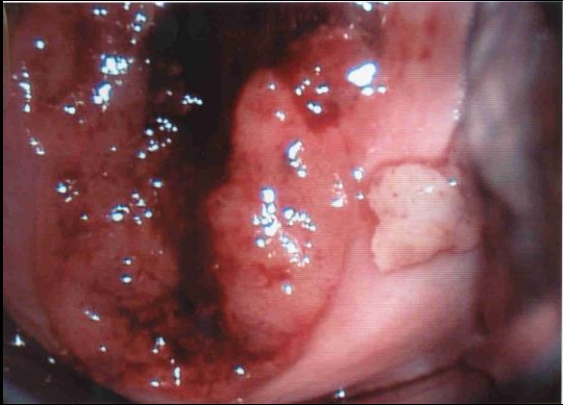
# Indications for adjuvant RT

<b>LVSI</b>	<b>Stromal Invasion</b>	<b>Tumor Size</b>
<b>Positive</b>	<b>Deep 1/3</b>	<b>Any</b>
<b>Positive</b>	<b>Middle 1/3</b>	<b>&gt; 2</b>
<b>Negative</b>	<b>Superficial 1/3</b>	<b>&gt; 5</b>
<b>Negative</b>	<b>Deep or Middle 1/3</b>	<b>&gt; 4</b>

**GOG 92: Sedlis criteria** (needing **2 or more** of these factors)

- **LVSI involvement**
- **Deep stromal invasion (middle or deep third)**
- **Size > 4 cm**

# Neoadjuvant chemotherapy



**Pre-chemo**

**Post-chemo**

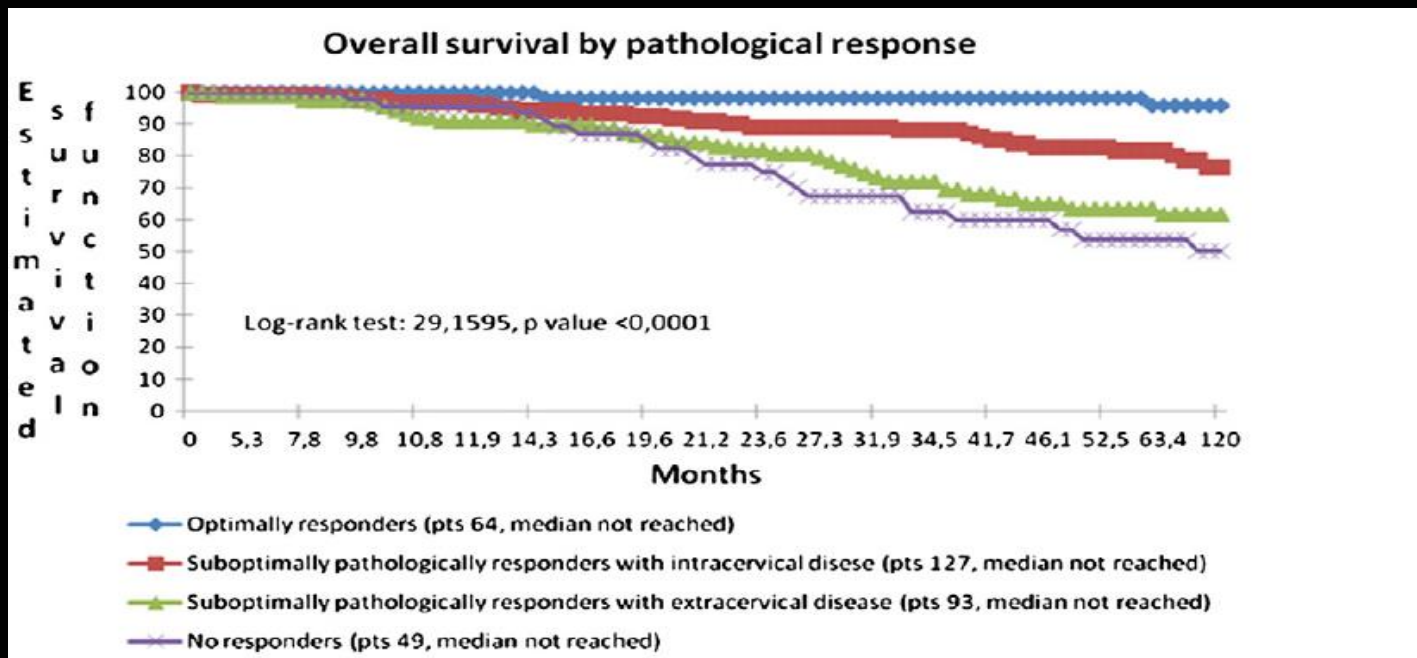


# NACT + fertility preserving surgery

	<b>N</b>	<b>Chemotherapy Regimen</b>	<b>Procedure</b>	<b>Optimal Response to NACT (CR + OPR)</b>	<b>Node Positivity</b>
<b>Maneo</b>	<b>21</b>	<b>TIP x 3</b>	<b>LPLND + cone</b>	<b>17/21 (81%)</b>	<b>2</b>
<b>Plante</b>	<b>3</b>	<b>TIP x 3</b>	<b>LPLND + RVT</b>	<b>3/3 (100%)</b>	<b>0</b>
<b>Marchiole</b>	<b>7</b>	<b>TIP/TEP x 3</b>	<b>LPLND + RVT</b>	<b>4/7 (57%)</b>	<b>0</b>
<b>Lanowska</b>	<b>18</b>	<b>TIP/TP x 2-3</b>	<b>LPLND + RVT</b>	<b>14/18 (78%)</b>	<b>2</b>
<b>Robova</b>	<b>28</b>	<b>CI q 10d x 3 CA q 10d x 3</b>	<b>LPLND + SVT</b>	<b>17/28 (61%)</b>	<b>2</b>
<b>Total</b>	<b>77</b>			<b>55/77 (71%)</b>	<b>6/77 (7.8%)</b>

	<b>Recurrences</b>	<b>Death</b>	<b>Fertility Preserved</b>	<b>Pregnancy/ Attempted</b>	<b>Pregnancy Outcome</b>
<b>Maneo</b>	<b>0</b>	<b>0</b>	<b>16/21 (76%)</b>	<b>10/9</b>	<b>1 FTM 5 preterm 2 SVD (term) 2 CS (term)</b>
<b>Plante</b>	<b>0</b>	<b>0</b>	<b>3/3 (100%)</b>	<b>4/3</b>	<b>1 FTM 1 preterm , 2 term</b>
<b>Marchiole</b>	<b>0</b>	<b>0</b>	<b>6/7 (86%)</b>	<b>1/1</b>	<b>1 ongoing</b>
<b>Lanowska</b>	<b>1/18 (5.5%)</b>	<b>0</b>	<b>17/18 (94%)</b>	<b>7/5</b>	<b>1 FTM 1 ectopic 1 ongoing 2 preterm, 2 term</b>
<b>Robova</b>	<b>4/20 (20%)</b>	<b>2/20 (10%)</b>	<b>20/28 (71%)</b>	<b>13/10</b>	<b>1 FTM 2 STM 2 ongoing 3 preterm, 5 term</b>
<b>Total</b>	<b>5/69 (7.2%)</b>	<b>2/69 (2.9%)</b>	<b>62/77 (80%)</b>	<b>35/28</b>	<b>11 FT loss (31%) 11 preterm (31%) 13 term (37%)</b>

# Pathological response to NACT & Survival



- Multicentre Italian trial
- **Retrospective** review 333 pts **IB2/IIB**
- Median FU 66m
- NACT- rad hyst/PLND
- **Overall RR 86%, optimal 20%**

# Chemotherapy regimen

Italian Q 3 weeks x 3	Taxol 175 mg/m <sup>2</sup>	Ifosfamide 5g/m <sup>2</sup>	Cisplatin 75 mg/m <sup>2</sup>
“Ovarian” Q 3 weeks x 3	Taxol 175 mg/m <sup>2</sup>		Carbo AUC 6
Dose dense Weekly x 9	Taxol 80 mg/m <sup>2</sup>		Carbo AUC 2
“Belgian” Dose dense Weekly x 9	Taxol 60 mg/m <sup>2</sup> <b>No alopecia</b>		Carbo AUC 2.7
Prague regimen Q 10d x 3		Ifosfamide 2g/m <sup>2</sup> Squamous	Cisplatin 75 mg/m <sup>2</sup>
Prague regimen Q 10d x 3		Adriamycin 35mg/m <sup>2</sup> Adenoca	Cisplatin 75 mg/m <sup>2</sup>

**9 weeks = 63 days**

**EORTC 55994 regimen**

# **NACT and Fertility Sparing**

**∞ Small retrospective studies**

**∞ Lack of standardization**

- ☐ Timing of LN staging**
- ☐ Type of fertility preserving surgery**
- ☐ Choice of chemotherapy regimen**

# CONTESSA TRIAL

# Specific Hypothesis

∞ Neoadjuvant chemotherapy (**NACT**) in **node-negative** women with stage IB1 (**2-4 cm**) cervical cancer will enable fertility preserving surgery without compromising oncologic outcome in good chemo-responders

# Primary Objective #1

➤ To evaluate the **safety** of NACT in women with **node negative**, stage **IB1** cervical cancer with lesions measuring **2-4 cm**



# Primary Objective #2

➤ To evaluate the **rate of fertility preserving surgery** following neoadjuvant chemotherapy (NACT)

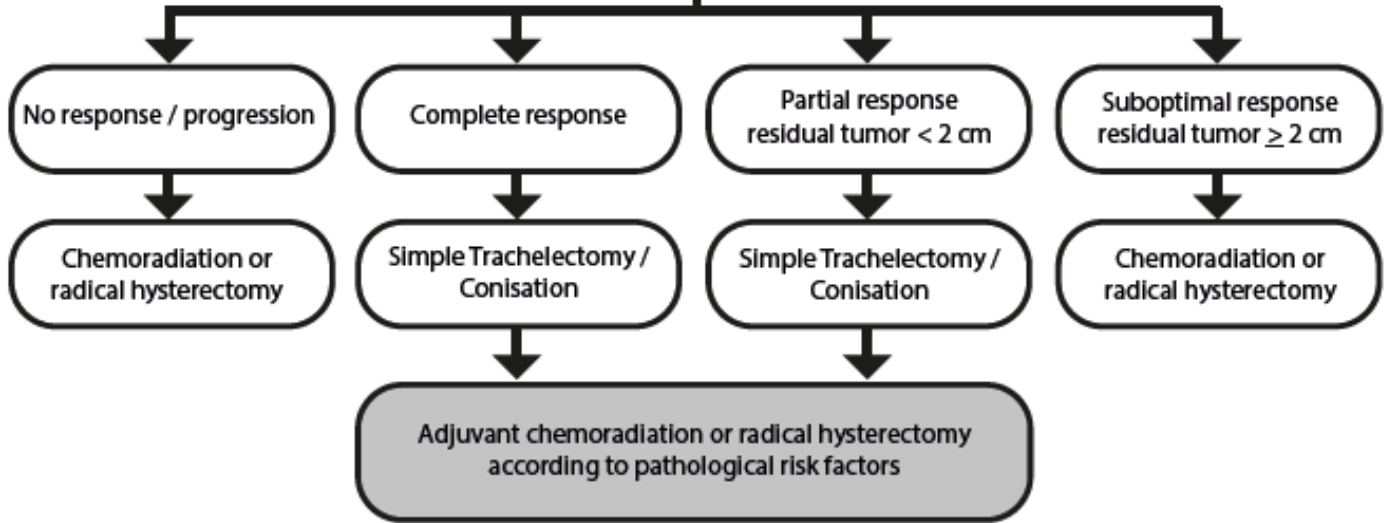
# Secondary Objectives

- ✧ **Chemotherapy related adverse events / safety**
- ✧ **Surgical complication rate of FPS**
- ✧ **Requirement for adjuvant radiation therapy  
(trimodality treatment)**
- ✧ **Requirement for definitive hysterectomy**
- ✧ **Quality of Life**
- ✧ **Ovarian function, rates of pregnancy and  
obstetrical outcomes**

Cervical cancer size 2-4 cm  
MRI - corpus negative, node negative  
Laparoscopy - pelvic lymph node dissection / SLN mapping, **node negative**  
Pathology - squamous, adenosquamous or adenocarcinoma  
LVSI - negative or positive  
Patient age  $\leq$  40 years  
Desirous of preserving fertility

NACT x 3 cycles  
Platinum / Paclitaxel

After 3 cycles  
Clinical assessment  
and pelvic MRI



# Primary endpoints

- ↻ Recurrence rate/PFS at **3 years** (#1)
- ↻ Intact **functional uterus** following NACT and FPS (#2)

# Statistical analysis

↪ Phase II study

↪ Prospective, multi-center, international trial

# Statistics : **PRELIMINARY**

∞ **Sample size** was calculated based on the efficacy outcome

- ▣ Based on the hypothesis that **70%** of patients will proceed to FSS following NACT
- ▣ **61 evaluable patients** will provide a two-sided 96% CI
- ▣ Up to **75 patients** may be accrued to reach 61 evaluable patients
  - Drop out rate, need for adjuvant RT

# Statistics : **PRELIMINARY**

∞ Considering the **safety endpoint** based on the NACT completion rate

- **An interim analysis after 24 patients** accrued will be performed
- If **less than 13 ptes** are able to complete NACT, trial will be **terminated**
- The trial will be considered **safe if >37/61** are able to complete NACT

# Statistics : **PRELIMINARY**

∞ The **2-year recurrence rate** will also be monitored

- Monitoring will start **after 10 patients** are accrued and **up to 30 evaluable** patients
- The trial will be considered **unsafe** if there is a **70% probability** that the **2-year recurrence rate is greater than 15%**



# Statistics : **PRELIMINARY**

## Stopping Rules

Number of evaluable patients	Number of 2-year recurrence	Stop the trial
10	$\geq 3$	Yes
15	$\geq 4$	Yes
20	$\geq 5$	Yes
25	$\geq 6$	Yes
30	$\geq 7$	Yes

# Translational research

## ∞ Assessment of **tumor response**

- **Circulating tumor DNA (ctDNA)**
- **Serial blood sample collection**
  - **Baseline**
  - **Chemotherapy cycle 2**
  - **Surgery**
  - **3-month follow-up visit**

# Funding

## ⇒ PMH Consortium

- ▣ Per case funding for Canadian patients
- ▣ Data collection and data monitoring

## ⇒ Netherlands (CGOA/NCI)

- ▣ Per case funding for Dutch patients

## ⇒ Other groups

- ▣ Will have to secure own funding

# Summary

✧ Feasible study

✧ Count on **international collaboration**

✧ Will provide solid data as to the safety of this approach and standardize the procedure