

## **ESMO Clinical Practice Guidelines**

European Society for Medical Oncology

## Cervical Cancer Clinical Case Discussion

## Cristiana Sessa Oncology Institute of Southern Switzerland Bellinzona





No potential conflicts of interest declared



## **Staging in cervical cancer**

- FIGO staging is based on clinical examination and is crucial to select and evaluate therapy
- TNM staging on pathological findings provide data to estimate prognosis and compare results
- FIGO clinical staging has been shown to result in understaging of up to 20-30% in stage IB and almost 40% in stage IIIB



## Which imaging in staging?

- MRI is an adjunct to clinical evaluation of early invasive cervical cancer, provides information on tumor diameter, volume, local invasion
- In a systematic review, MRI showed a significantly higher sensitivity (74%; 95% CI: 68-79%) than CT (55%; 95% CI 44-66%) but comparable specificity in the evaluation of parametrial involvement



## Which imaging in staging?

- There are divergent results on the role of MRI and CT in the evaluation of parametrial involvement
- In the prospective ACRIN/GOG study, MRI and CT showed similar accuracy in evaluating parametrial involvement in stages up to IIB; sensitivity decreased and specificity increased as the stage threshold increased
- In general, the superiority of MRI to CT has mostly been shown for the evaluation of large lesions



**Early invasive cervical cancer** 

European Society for Medical Oncology

#### NIH Consensus Statement on Cervical Cancer Bethesda 1996

"Patients with stage IB and IIA cervical cancer are appropriately treated with either radical hysterectomy with pelvic lymphadenectomy or radiation therapy with equivalent result. To minimize morbidity, primary therapy should avoid the routine use of both radical surgery and radiation therapy. The combined use of radical surgery and radical

radiation therapy results in high morbidity and cost."



# Randomised study of radical surgery versus radiotherapy for stage lb-lla cervical cancer

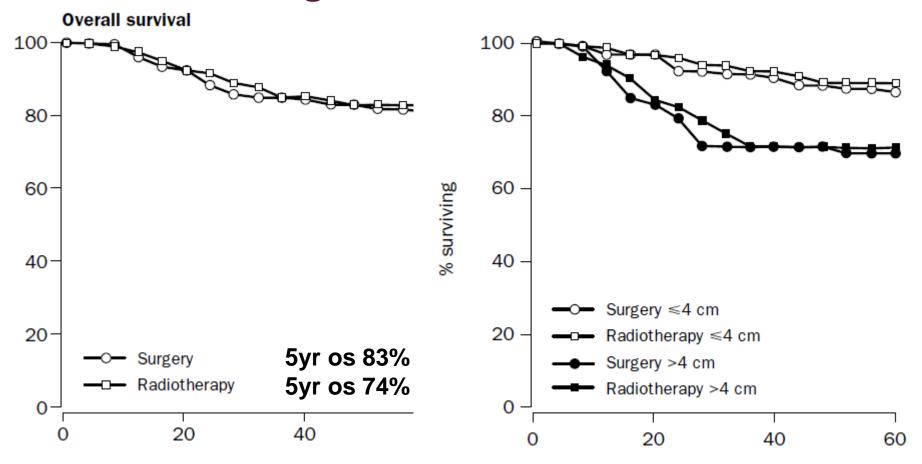
Fabio Landoni, Andrea Maneo, Alessandro Colombo, Franco Placa, Rodolfo Milani, Patrizia Perego, giorgio Favini, Luigi Ferri, Costantino Mangioni

The Lancet, Vol 350,1997:535-540

	Surgery (n=170)		Radiotherapy (n=167)	
	≤ 4 cm	> 4 cm	≤ 4 cm	> 4 cm
Number of patients	115	55	113	54
FIGO stage IB	93%	85%	88%	83%
Adjuvant RT	54%	84%		



Randomised study of radical surgery versus radiotherapy for stage lb-lla cervical cancer



Time since treatment (months)

Overall survival by treatment group and cervical diameter

Overall survival by treatment group



## Randomised study of radical surgery versus radiotherapy for stage lb-lla cervical cancer

	Surgery (N=170)	Radiotherapy (N=167)	Total (N=337)
Relapses (%)	25	26	25.5
Local/Pelvic (%)	52	64	58
Distant (%)	48	36	42



## Randomised study of radical surgery versus radiotherapy for stage lb-lla cervical cancer

Morbidity	Surgery		Radiotherapy group (N=167)
	Surgery only (N=62)	Surgery plus RT (N=108)	(N=107)
Grade 2-3 (%)	31	27	11
Short-term (%)		19	7
Long-term (%)		27	16



## Radical surgery versus radiotherapy for stage lb-lla cervical cancer

#### **Optimum treatment strategy**

Depends on:

- Prognostic factors
- Benefit and disadvantages of each treatment

Surgery	Radiotherapy
Younger patients	Obese, elderly patients
Radiotherapy feasible in pelvic recurrence	Concomitant severe illness Salvage surgery in pelvic recurrence highly risky
	Delayed complications (mainly after combined approach)



2/22/99: NCI issues clinical announcement on cervical cancer European Society for Medical Oncology

## The results of 5 large studies have shown that women with invasive cervical cancer have better survival when they receive chemotherapy which includes the drug cisplatin along with radiation therapy



## Concurrent chemoradiotherapy for cervical cancer: a meta-analysis of 18 randomized trials

- Greater effect for stage IB2-IIA/IIB
- Better results for platinum-based therapy
- Greater benefit in overall survival with additional adjuvant CT

Meta-Analysis Group, JCO, 2008



## Recurrent metastatic cervical cancer

European Society for Medical Oncology

#### Stage IVB

**Recurrence** not suitable for local treatment (pelvic and extrapelvic)

#### Chemotherapy

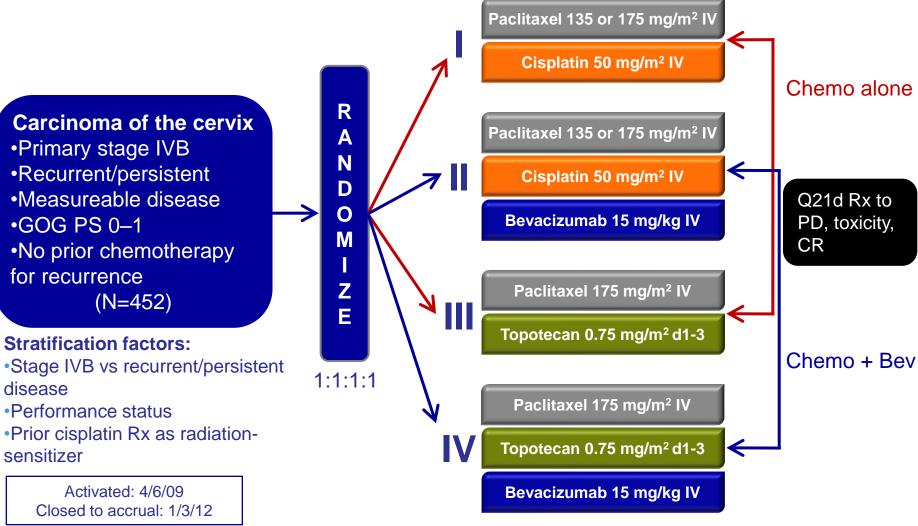
CT platinum-based with:

	PFS	OS	
	(mos)	(mos)	
<ul> <li>Topotecan</li> </ul>	4.6	10	
Paclitaxel	5.8	13	
<ul> <li>Gemcitabine</li> </ul>	4.7	10	
Vinorelbine	4	10	



#### GOG 240: Schema

European Society for Medical Oncology



KS Tewari (study chair). www.ClinicalTrials.gov Identifier: NCT00803062.

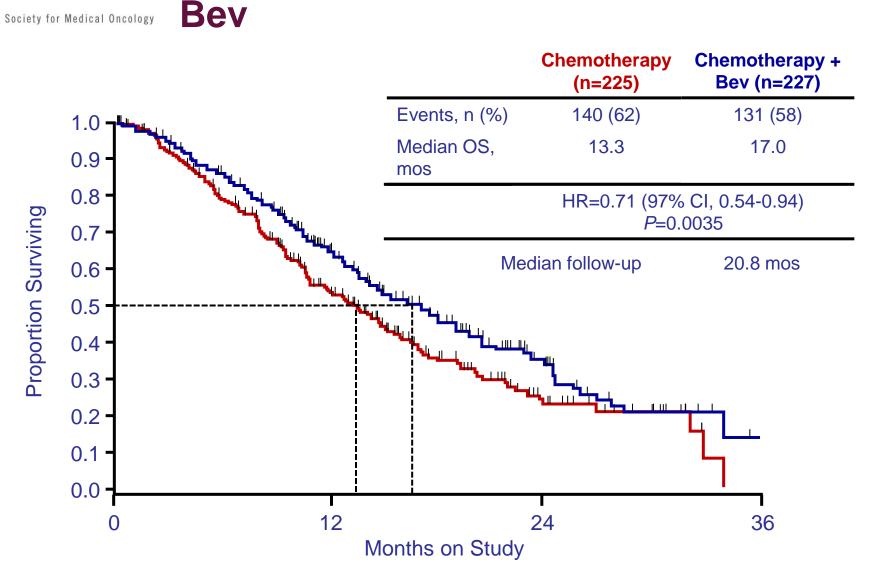


### **GOG 240: Demographics & Baseline Characteristics**

Characteristic	Chemo Alone (n=225), %	Chemo + Bev (n=227), %
Median age, years (range)	46 (20–83)	48 (22–85)
Histology, % Squamous AdenoCa, unspec.	68 20	70 19
Race, % White African American Asian Pacific Islander	80 11 3 0	75 16 5 0
Stage of disease, % Recurrent Persistent Advanced	73 10 16	70 12 17
Performance status, % 0 1	58 42	58 42
Prior platinum, %	74	75
Pelvic disease, %	53	54



## GOG 240: OS for Chemo vs Chemo +





## Incurable recurrent cervical cancer

European Society for Medical Oncology

Individualized treatment of symptoms

- Pelvic pain
- Neurological symptoms (pain, motor and/or sensitivity dysfunction)
- Ureteric obstruction with renal failure
- Hemorrhage, malodourous discharge
- Lymphedema
- Fistula