

**Practical Management of the GYN-Oncology Patient
Discussing Real Life Cases**

Eric Pujade-lauraine

**Centre des Cancers de la Femme et
Recherche Clinique**

Université Paris Descartes

Case study

- 49 yr old woman, vaginal bleeding. Clinical examination + MRI = tumor of the cervix-6.4 cm- no evidence of parametrial invasion nor vaginal- biopsy: adenocarcinoma
- Laparoscopic para-aortic lymph node dissection: negative
- Chemoradiation (cisplatin)

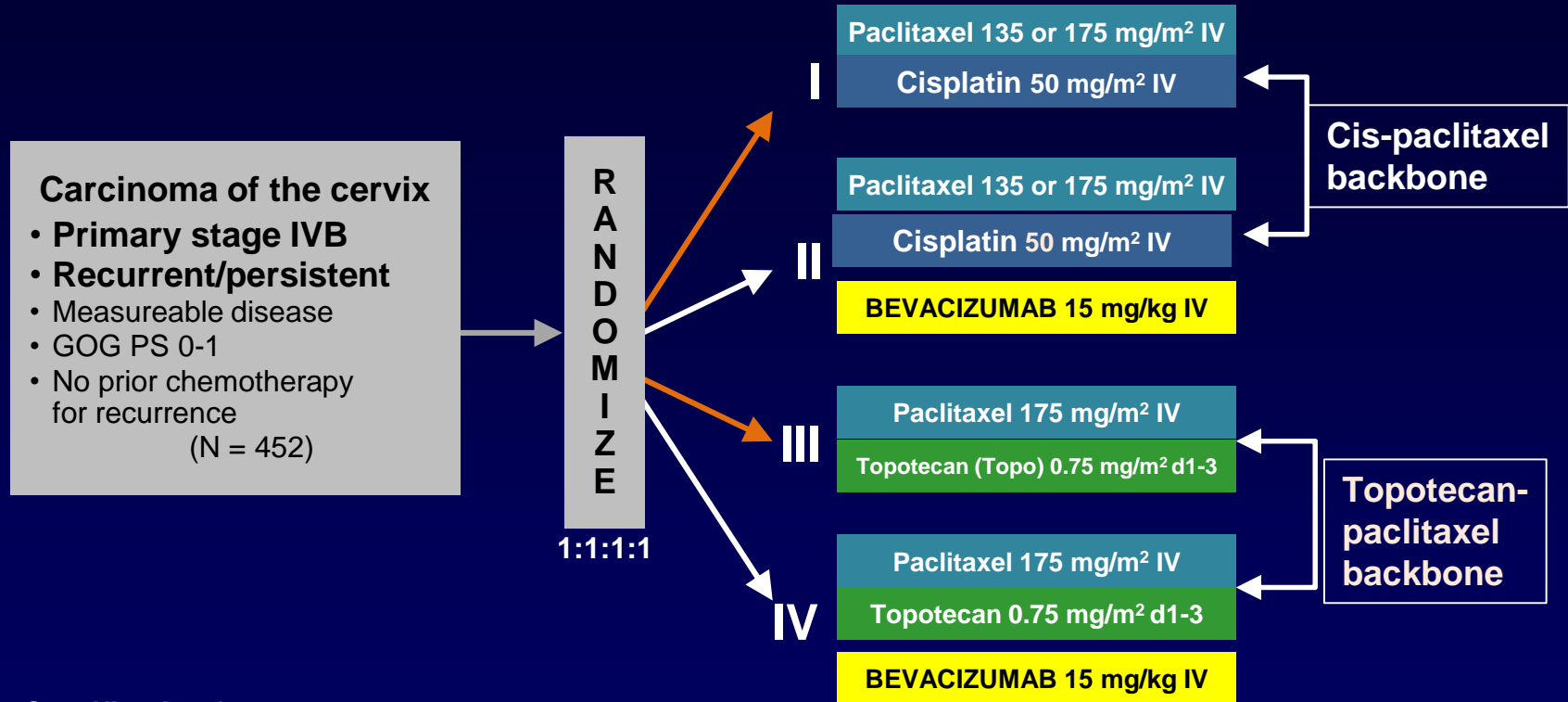
Case study

- 1 year later: relapse in the pelvis and peritoneum. Left hydronephrosis. Normal renal function.
- Pelvic MRI: 6cm mass between bladder and rectum without sign of mucosa invasion

Three Decades: Recurrent and Metastatic Cervical Cancer

- **Cisplatin (Cis) 50 mg/m² plus paclitaxel (Pac) 135 mg/m² is standard therapy (GOG)**
 - **Alternative is carboplatin plus paclitaxel**
- **Gynecologic Oncology Group (GOG) 204 (2009)**
 - **Phase III randomized trial of 4 platinum-based chemotherapy doublets: Cisplatin plus paclitaxel remained standard for GOG**
- **Majority of patients with recurrent cervical cancer treated with cisplatin-based chemoradiation for locally advanced disease**
- **New therapeutic options needed:**
 - **Non-platinum chemotherapy doublets?**
 - **Anti-angiogenesis therapy?**

GOG 240: Schema



Stratification factors:

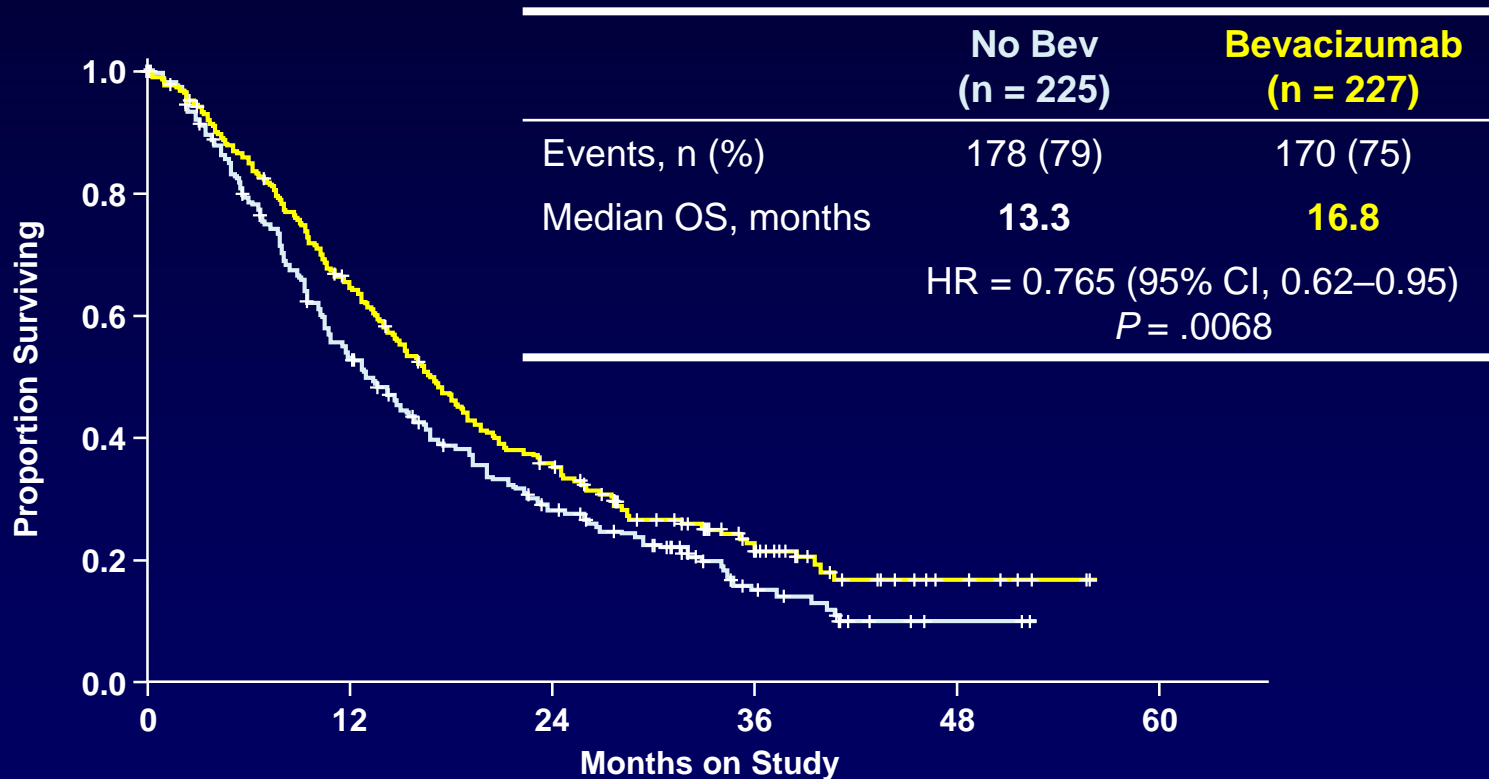
- Stage IVB vs recurrent/persistent disease
- Performance status
- Prior cisplatin Rx as radiation-sensitizer

q21d Rx to PD,
toxicity, CR

CR, complete response; PD, progressive disease; PS, performance status; q21d, every 21 days; Rx, treatment

National Institutes of Health. Available at: <http://clinicaltrials.gov/ct2/show/NCT00803062>. Accessed January 7, 2015.

GOG 240.6: Final Protocol-Specified OS ChemoRx vs ChemoRx Plus Bev



Bev	227	142	75	30	6	0
No Bev	225	114	54	17	2	0

Moore Criteria

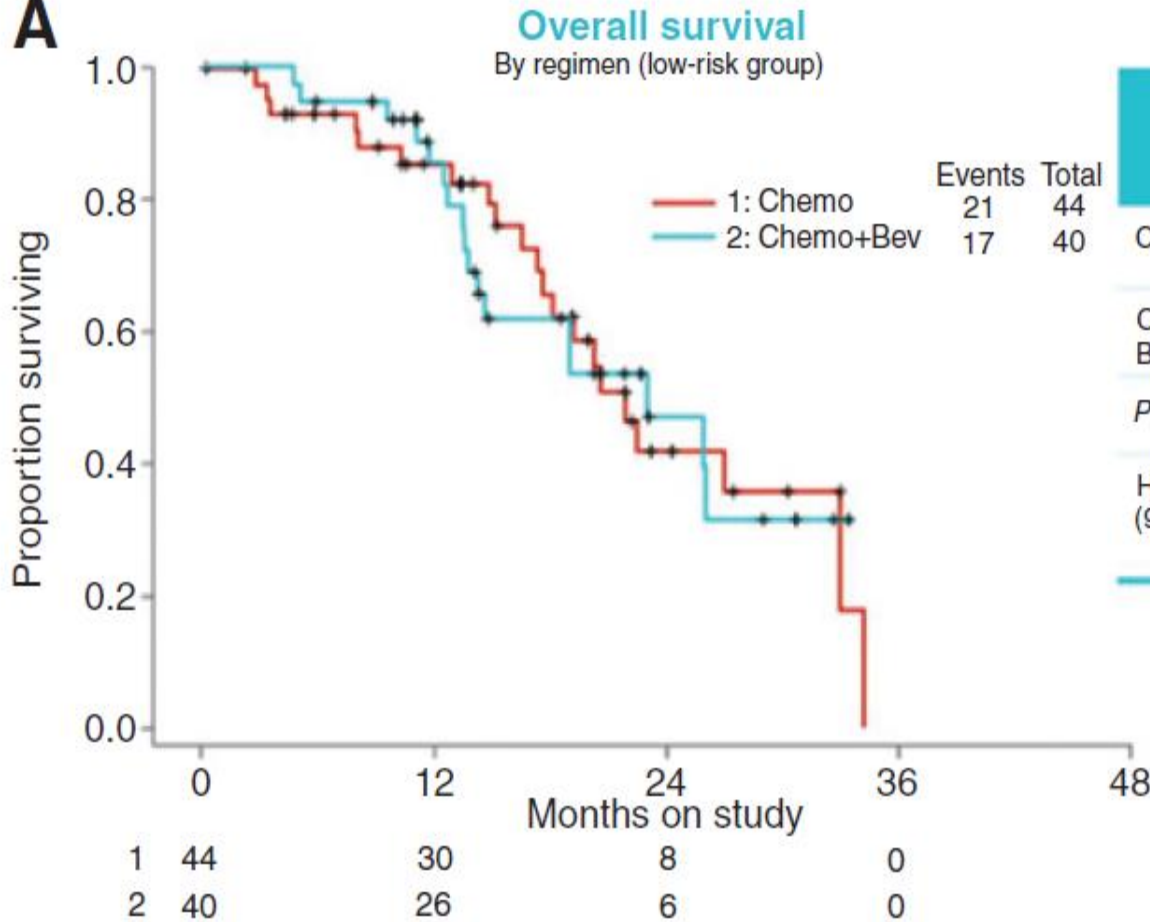
- Performance status >0
- Pelvic disease
- African-American ancestry
- Disease-free interval <1 year
- Prior platinum exposure

Prognosis according to Moore Criteria

- Low risk: 0-1 factors
- Mid risk: 2-3 factors
- High risk: 4-5 factors

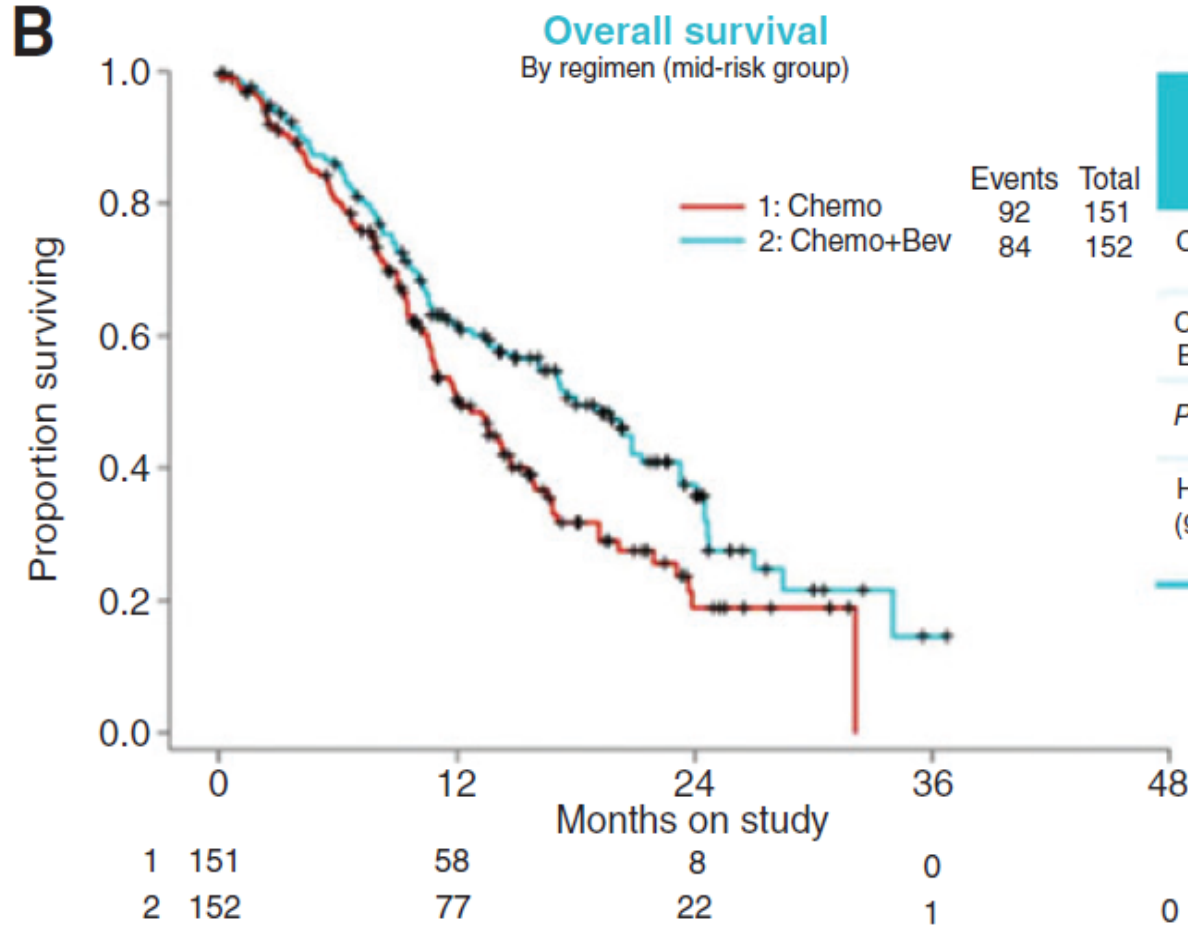
Overall Survival by regimen

A



	Median OS (mo)	Median PFS (mo)	RR (%)
Chemo	21.8	8.0	52.0
Chemo + Bev	22.9	10.9	62.5
<i>P</i>	0.9087	0.2903	<0.3435
HR (95% CI)	0.96 (0.51–1.83)	0.85 (0.53–1.37)	1.522 (0.64–3.64)

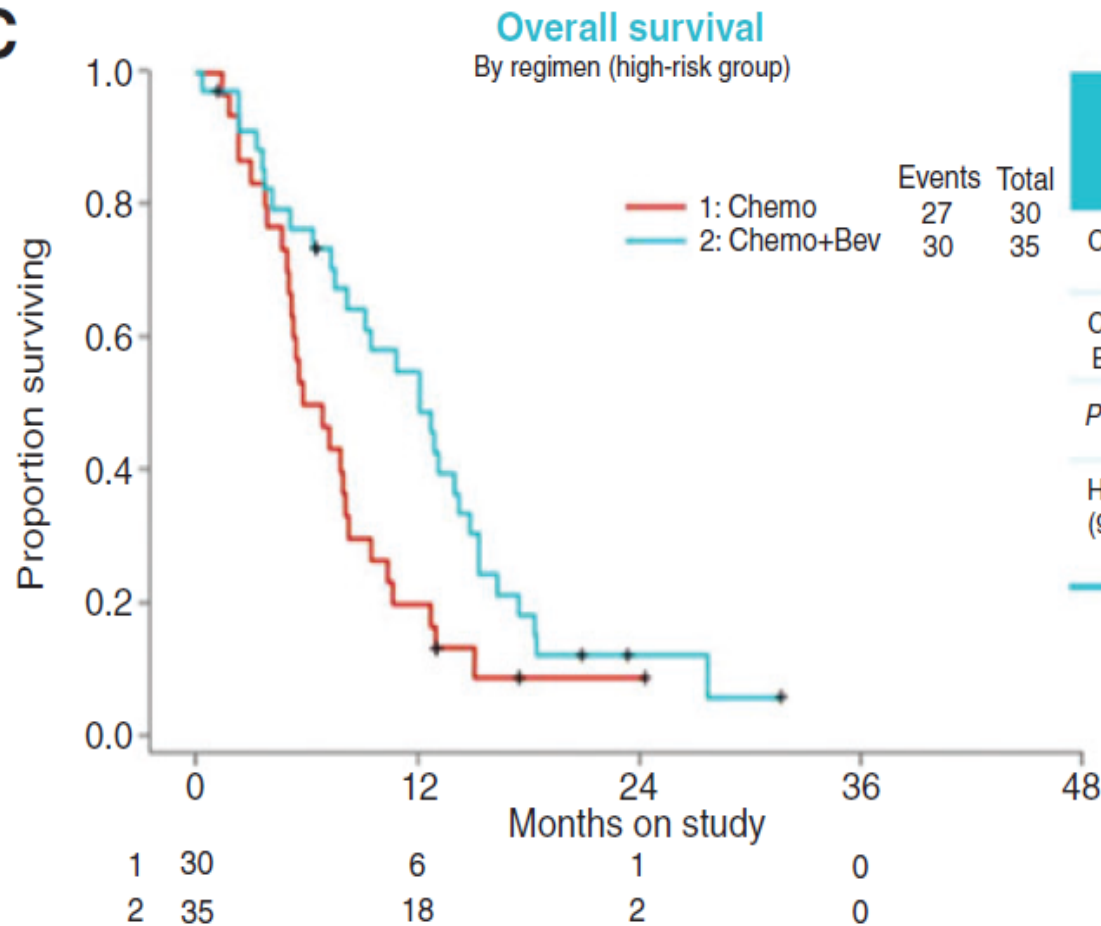
Overall Survival by regimen



	Median OS (mo)	Median PFS (mo)	RR (%)
Chemo	12.1	5.8	36.0
Chemo + Bev	17.9	7.9	50.7
<i>P</i>	0.0094	0.0047	<0.0087
HR (95% CI)	0.673 (0.51–0.91)	0.694 (0.54–0.89)	1.844 (1.16–2.92)

Overall Survival by risk regimen

C

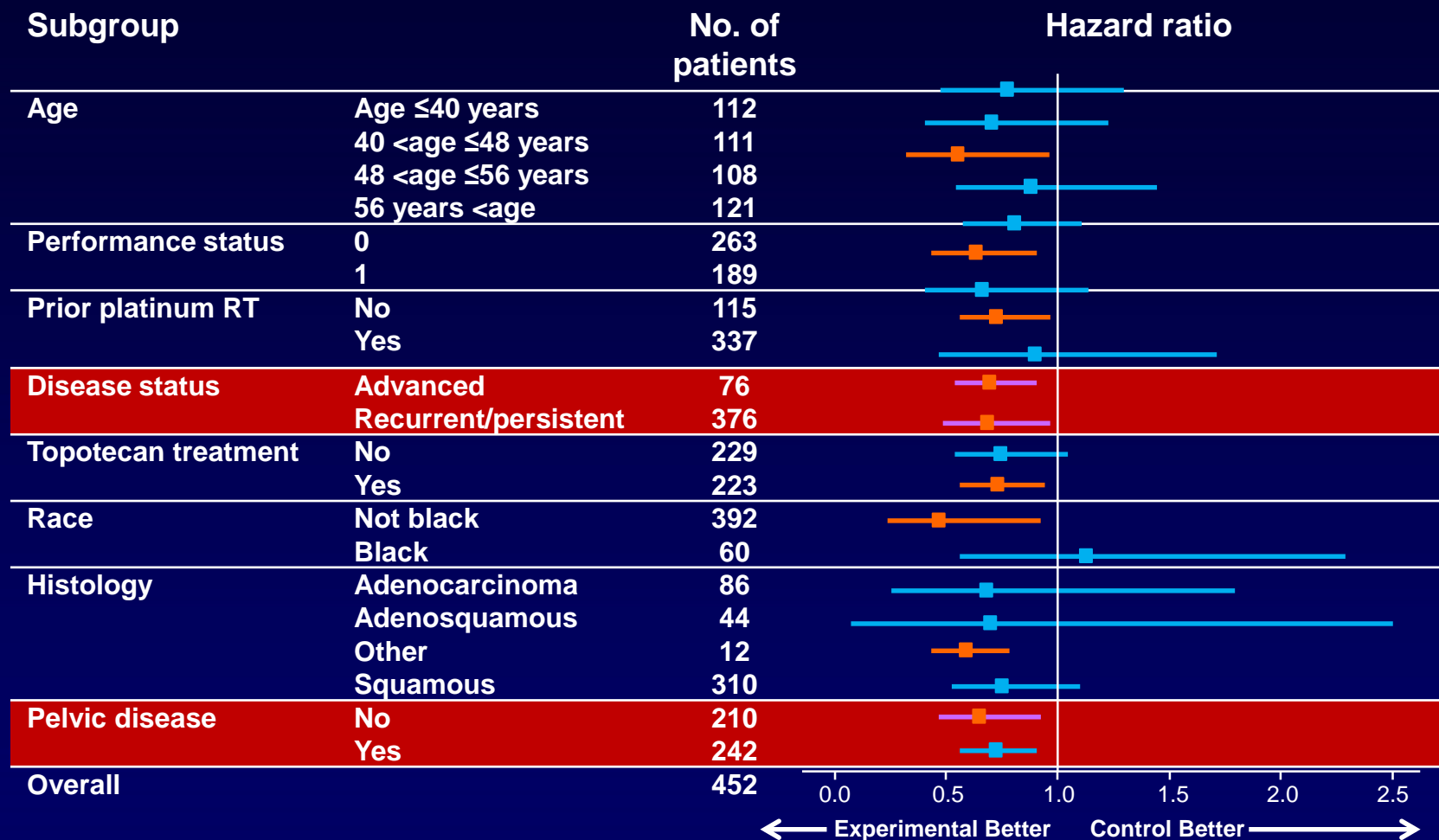


	Median OS (mo)	Median PFS (mo)	RR (%)
Chemo	6.3	3.0	13.0
Chemo + Bev	12.1	6.0	22.9
<i>P</i>	0.0196	0.0272	<0.3190
HR (95% CI)	0.536 (0.32–0.905)	0.506 (0.277–0.926)	1.926 (0.52–7.18)

Bevacizumab approved in recurrent/metastatic cervix cancer

- **FDA: August 14, 2014**
- **EMA: April 8, 2015**
- **France**

GOG 240.2: OS and Prognostic Factors



GOG 240.2: Treatment Exposure and Specific Adverse Events (AEs)

Adverse Event, n (%)	Chemo Alone (n = 219)	Chemo + Bev (n = 220)
Grade 5 AE(s)	4 (1.8)	4 (1.8)
GI events, non-fistula (grade ≥2)	96 (44)	114 (52)
GI fistula (grade ≥3)*	0 (0)	7 (3)
GI perforation (grade ≥3)	0 (0)	5 (2)
GU fistula (grade ≥3)*	1 (0)	6 (2)
Pain (grade ≥2)	62 (28)	71 (32)
Hypertension (grade ≥2)*	4 (2)	54 (25)
Proteinuria (grade ≥3)	0 (0)	4 (2)
Neutropenia (grade ≥4)*	57 (26)	78 (35)
Febrile neutropenia (grade ≥3)	12 (5)	12 (5)
Thromboembolism (grade ≥3)*	3 (1)	18 (8)
Bleeding CNS (any grade)	0 (0)	0 (0)
GI (grade ≥3)	1 (0)	4 (1)
GU (grade ≥3)	1 (0)	6 (3)

*P<.05

Vaginal Fistulae



222 patients

GI-vaginal fistula: 0 patients (0%)
GU-vaginal fistula: 3 patients (1.4%)



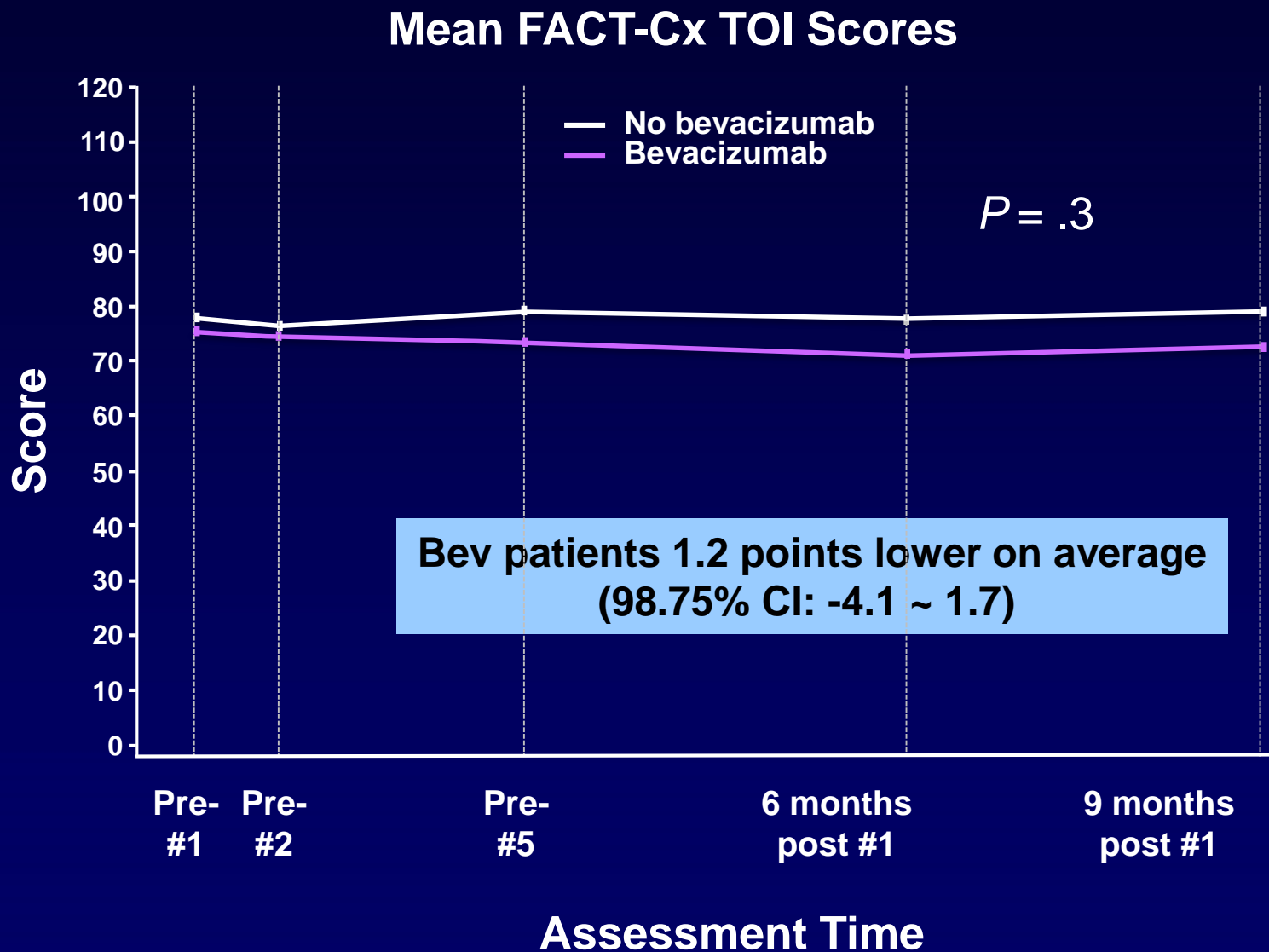
218 patients

GI-vaginal fistula G3: 7 patients (3%)
GU-vaginal fistula: 4 patients (1.8%)
GI fistula: 1 patient (0.5%)

In a separate analysis of the GOG 240 study, all fistulae events were re-graded:

- None of the fistulae were associated with peritonitis, sepsis or death. Among the patients who developed GI-vaginal fistulae, all (100%) had **received prior pelvic radiation therapy** compared to 80% in the overall population.

GOG 240.3: HRQoL Mean FACT-Cx TOI



Who is the Best Candidate for Bevacizumab?

GOG 240: Eligibility Criteria

- Recurrent/persistent or metastatic disease
- Frontline excluding chemotherapy with radiation
- Squamous cell carcinoma (SCCA), adenocarcinoma (AC), adenosquamous carcinoma (AS)
- GOG performance status 0-1
- Normal renal function (Cr < 1.3)
- No bleeding or nonhealing ulcer, other nonhealing wound, or fistula
- Malnutrition corrected

GOG 240.2: Conclusions

- **Bevacizumab plus chemotherapy significantly improves OS in stage IVB, recurrent or persistent cervical carcinoma**
 - **Nearly 4-month improvement in OS is clinically significant**
 - **Increase in median PFS and overall response rate are also demonstrated**
 - **Benefit seen even when recurrent disease is in irradiated pelvis**
- **Bevacizumab treatment is associated with a higher rate of AEs**
 - **3% to 8% rate of known bevacizumab-related AEs**
 - **The improvement in OS with bevacizumab treatment was not accompanied by a significant decrease in HRQoL**

Back up slides

GOG 240.1: Toxicity

Cis-Pac Backbone vs Topo-Pac Backbone



		Grade 0	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Leukopenia	Cis-Pac	45	27	70	60	10	0
	Topo-Pac	30	28	42	71	33	0
Nausea	Cis-Pac	82	78	36	16	0	0
	Topo-Pac	103	71	26	4	0	0
Vomiting	Cis-Pac	145	29	28	10	0	0
	Topo-Pac	161	27	11	5	0	0
Metabolic	Cis-Pac	115	42	28	26	1	0
	Topo-Pac	130	35	26	11	2	0
Neurosensory	Cis-Pac	96	65	35	16	0	0
	Topo-Pac	87	82	30	5	0	0
Allergy	Cis-Pac	172	16	17	7	0	0
	Topo-Pac	193	7	1	3	0	0