

# **CU**rative **R**adiotherapy to the primary tumor vs. **bE**st supportive care in patients with initially metastatic **C**ervical carcinoma (**CURE-C trial**)

**EORTC ROG-GCG-QLG**

Study coordinator

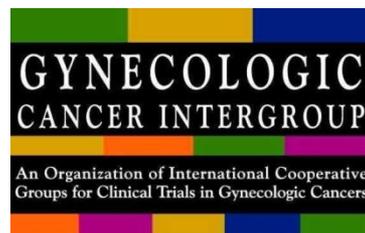
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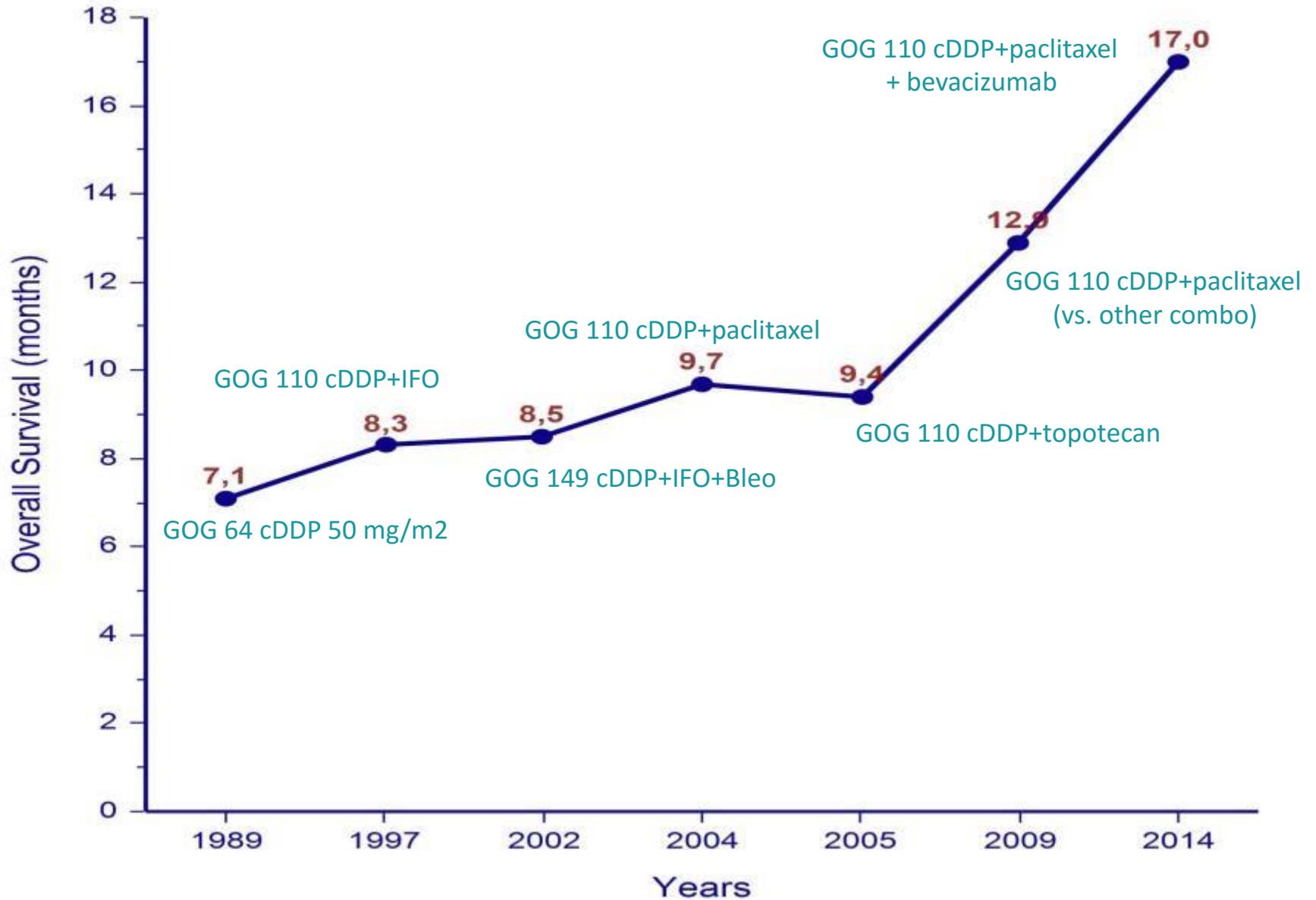
*The future of cancer therapy*

# Introduction

- Metastatic stage IVB disease present in 15-20% of CC patients at diagnosis
- Platinum-based chemotherapy +/- individualized radiotherapy standard of care in metastatic disease (NCCN 2.2015)

**No randomized trial of radiotherapy in the setting  
of primary metastatic CC**

# GOG trials in recurrent, persistent or metastatic CC



# Introduction

Pelvic/para-aortic progression is still a very common cause of death even in initially metastatic cervical carcinoma: causing hydronephrosis and renal failure with uremia, bleeding, thromboembolism, pelvic organ fistulas or tumor necrosis with consequent lethal sepsis

Furthermore, primary cancer cells continue to disseminate to generate more metastatic foci (Lyng 2006, Su 2012, Donat 2014)

Distant metastases remain asymptomatic for a long time and represent a direct cause of death less frequently (e.g. liver failure, carcinomatous lung lymphangitis, brain edema, etc.)

**Radiotherapy of the primary cervical carcinoma and pelvic/para-aortic lymph nodes to a “curative” dose as used in locally advanced disease may have a huge potential to improve outcomes in initially metastatic CC**

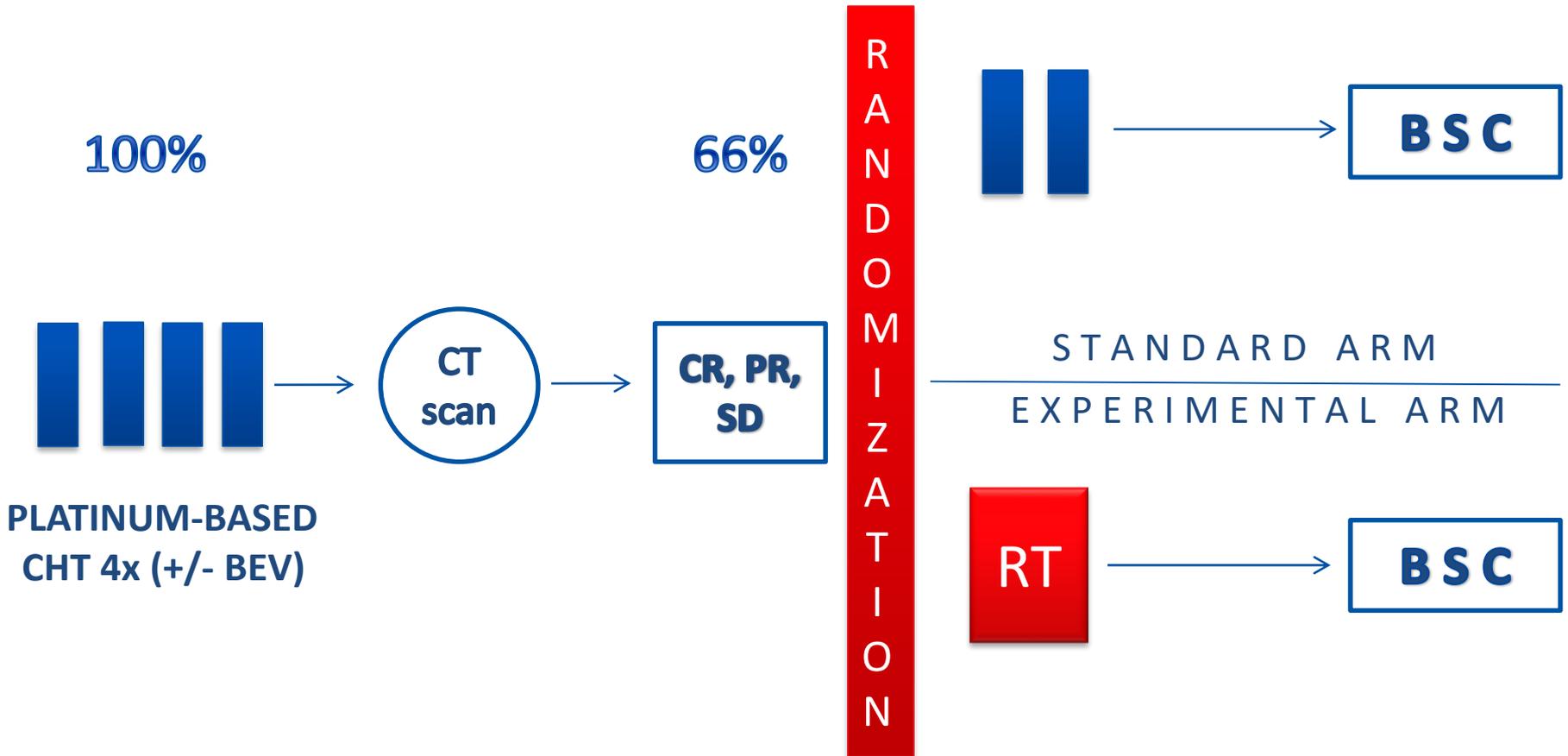
# Purpose

To prove the superiority of primary tumor radiotherapy to “curative” doses over palliative treatment (best supportive care) in the setting of initially metastatic stage IVB cervical carcinoma in patients with response after standard platinum-based systemic chemotherapy

# Inclusion criteria

- Histologically confirmed cancer of the uterine cervix
- Stage IVB metastatic disease
- No clinical evidence of brain metastases
- Presence of untreated primary cervical carcinoma
- No need for urgent upfront radiotherapy for life threatening symptoms
- No previous RT treatment in the pelvis or para-aortic area
- No prior history of Crohn's disease, ulcerative colitis; or other chronic bowel disease
- Performance status 0-2
- Life expectancy  $\geq$  6 months
- Adequate hematological formulae

# Phase II randomized trial



BSC: including palliative RT up to 40Gy BED2 in case of symptomatic progression, 2<sup>nd</sup> line CHT, etc.

# Endpoints

**Primary:**

**Time to progression**

**Secondary:**

**Quality of life (A Translational part of the research)**

**Overall Survival**

**Treatment toxicity**

**Evaluation of treatment feasibility in a multi-institutional setting**

**Stratification factors**

Response to initial chemotherapy by RECIST criteria: CR, PR vs. SD

Performance status

Bevacizumab yes/no

# Statistics

## Due to the variability of the BSC, a comparative phase II design is proposed

*As proposed by Korn et al (JCO 2001), a phase II comparative screening design can be implemented as a superiority phase III trial design with an increased type I error and optimistic treatment effect*

For this trial, using a one sided log-rank test at a level of significance of 10% (alpha), to test for a HR=0.63 (increase from 50% to 65% event-free survival at 12 months) at 80% power would need about:

- 80 events ~100 patients in 1:1 randomization.

The event-free curves between the two arms will be compared with a non-parametric test stratified for the stratification factors

With the above assumptions, a hazard ratio of minimum would need to be observed 0.75 to reach significance