

# **Gemcitabine-erlotinib versus gemcitabine-erlotinib-capecitabine in the first line treatment of patients with metastatic pancreatic cancer: Efficacy and safety results of a phase IIb randomized study from the Spanish TTD collaborative group**

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**On behalf of the Spanish Cooperative Group of Treatment of Digestive Tumors (TTD)**



## DISCLOSURE SLIDE

Advisory role: Amgen, Bayer, Merck, Roche, Sanofi



## Background

Despite recent advances in various chemotherapeutic regimens and in the development of targeted therapies, metastatic pancreatic cancer (mPC) remains highly resistant to chemotherapy.

Gemcitabine plus capecitabine (GC) or plus erlotinib (GE) has been tested in phase III trials, with a statistically significant increase in ORR and PFS for GC and OS for GE.

GC plus erlotinib was tested in a phase II clinical trial, with a 32.6% PR, 6.5 months median PFS and a median OS of 12 months. (D.Oh et al. J Clin Oncol 2008. May 20; 26: suppl; abstr 4638 )



# GECA trial

## Design

**METASTATIC  
PANCREATIC  
CANCER**  
  
N: 120



**R**

1:1



**GEMCITABINA  
ERLOTINIB**



**GEMCITABINA  
ERLOTINIB  
CAPECITABINA**

Disease progression or  
early withdrawal

### **Gemcitabine-erlotinib (GE)**

G: 1000 mg/m<sup>2</sup> d 1, 8 and 15

E: 100 mg/d po

### **Gemcitabine-erlotinib-capecitabine (GEC)**

GE + Capecitabine: 830 mg/m<sup>2</sup>/12h, d1-21

- *Sponsor:* Spanish Cooperative Group for Digestive Tumour Therapy (TTD)
- *Study:* TTD-10-01
- *Principal investigators:* Drs. Antonio Irigoyen y Manuel Benavides
- *ClinicalTrials.gov identifier:* NCT01303029

## Statistical Design

### Sample Size:

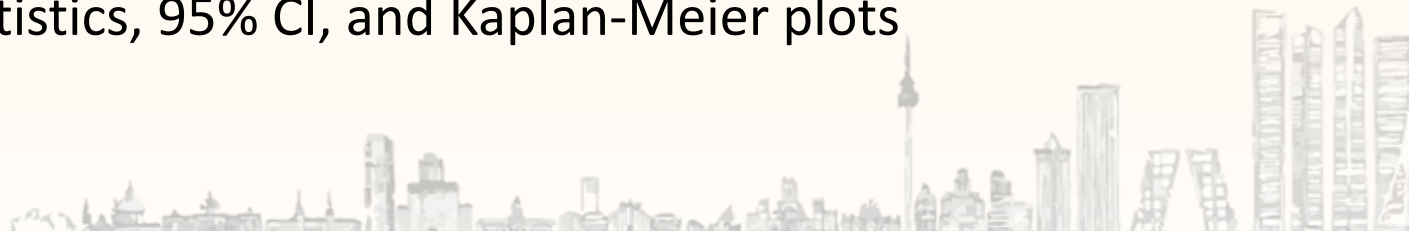
- **PFS Superiority Trial:** HR=0,63 (med. PFS 3,75 vs 6 months)
- alpha error=0,05 one side ; Power=80%
- Logrank test, 12 months recruitment and 24 months follow up
- 120 patients: 60 per arm

### Populations:

- ITT population: all randomized patients
- Safety population: all patients with, at least, one dose of treatment

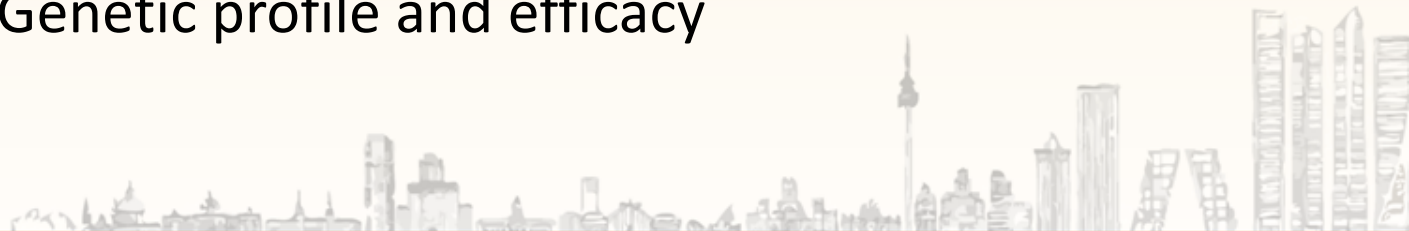
### Statistical Analysis:

- Descriptive statistics, 95% CI, and Kaplan-Meier plots



## Study Objectives

- **Primary Endpoint: Progression free survival**
- **Secondary Endpoints:**
  - Overall survival
  - Objective response rate
  - Duration of response
  - Safety
  - Efficacy according to rash
- **Sub-study: Genetic profile and efficacy**



## Eligibility criteria: main selection criteria

- Confirmed metastatic pancreatic cancer
- Informed consent
- Age  $\geq$  18 years
- ECOG performance status  $\leq$  2
- Measurable disease (RECIST v1.1)
- Life expectancy  $>$ 12 weeks
- Chemotherapy-naïve metastatic disease
- Adjuvant chemotherapy more than 6 months before randomization



## Baseline Characteristics

	GE N=60	GEC N=60
Age (years), median (range)	64 [29, 78]	62 [31,77]
Sex: Male/Female	34/26	34/26
ECOG PS		
0 (%)	22 (36.6)	18 (30.0)
1 (%)	35 (58.3)	35 (58.3)
2 (%)	3 (5.0)	6 (10.0)
Unknown (%)	0	1 (1.6)
Metastases location		
Liver N (%)	43 (71.6)	<b>50 (83.3)</b>
Lung N (%)	14 (23.3)	10 (16.6)
Peritoneum N (%)	<b>14(23.3)</b>	8 (13.3)
Bone N (%)	3 (5.0)	3 (5.0)



## SAFETY

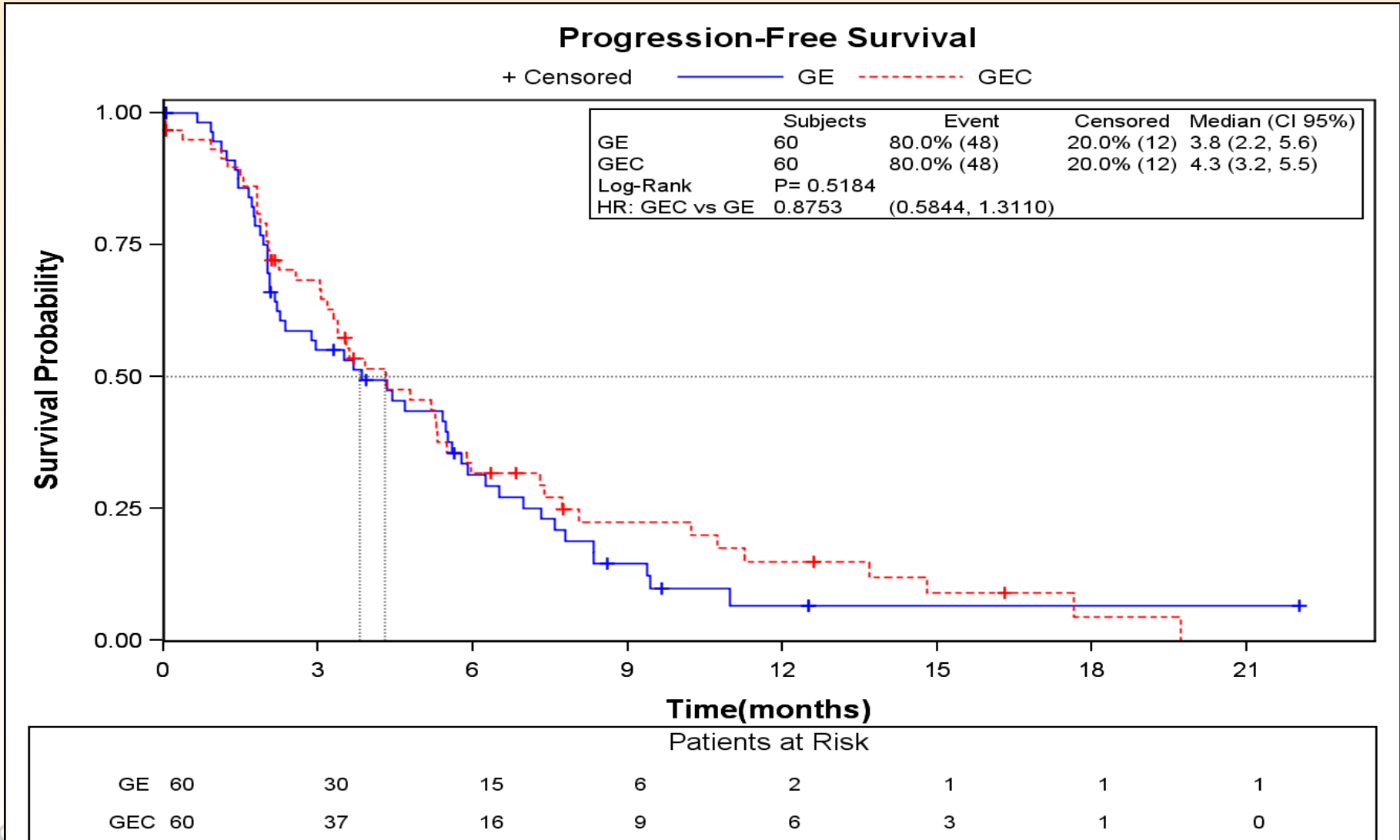
	GE (N=58)	GEC (N=60)	
<b>Related grade 3-4 AEs</b>	55%	<b>72%</b>	<b>p=0.0494</b>
<b>Neutropenia</b>	15%	<b>43%</b>	<b>p=0.0008</b>
Thrombocytopenia	7%	10%	
Asthenia	10%	10%	
<b>Mucose inflammation</b>	0%	<b>9%</b>	<b>p=0.03</b>
GGT increase	<b>8%</b>	2%	
Diarrhea	5%	7%	
Anemia	8%	7%	
Hand-foot syndrome	0%	<b>5%</b>	

Safety population N=118. Two patients in the GEC arm were not included in the safety population, since they did not initiate study treatment

# GECA trial

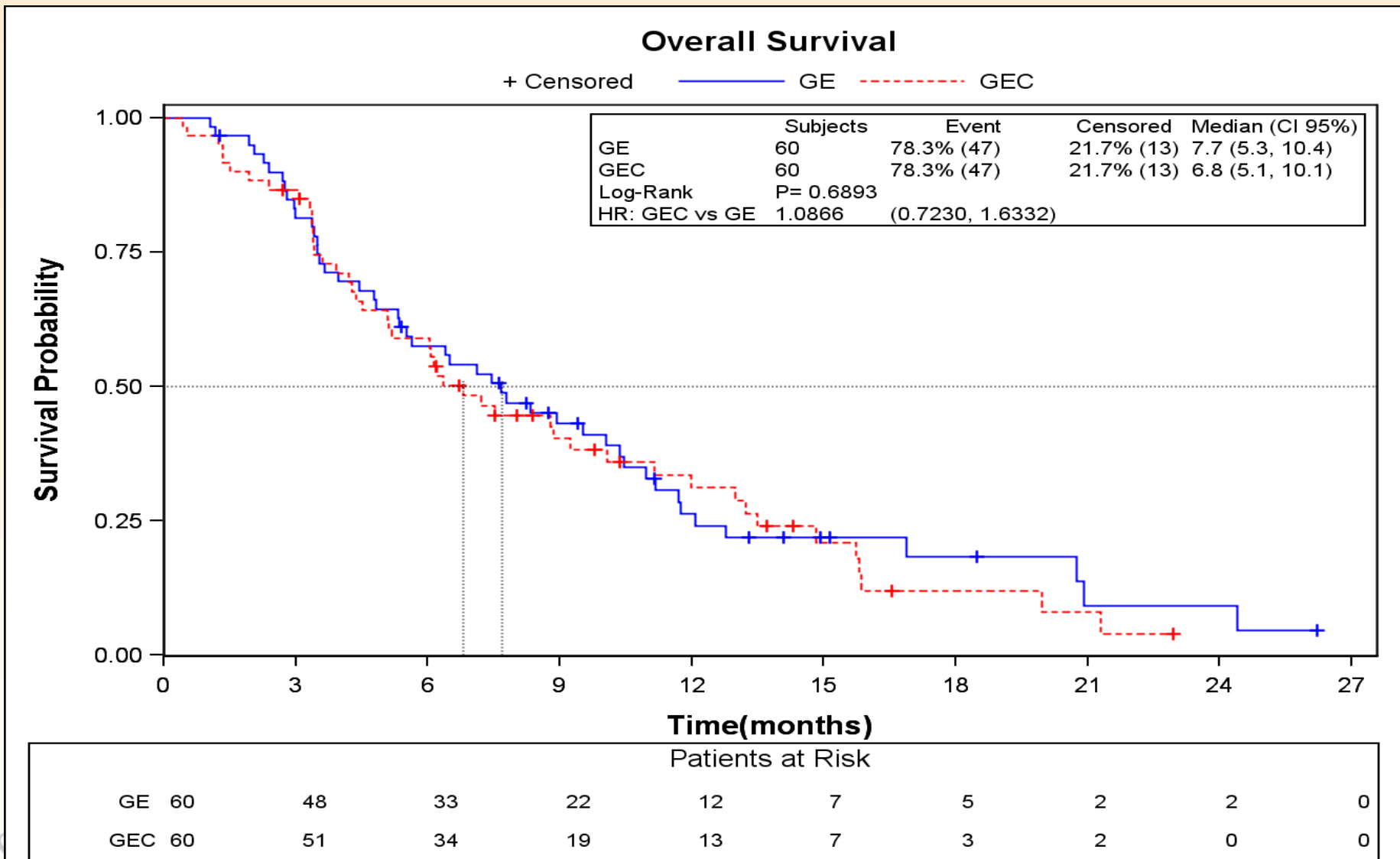
## Results: primary endpoint

## Progression Free Survival



## Results: secondary endpoint

## Overall Survival



## Results: secondary endpoint *Confirmed response rate*

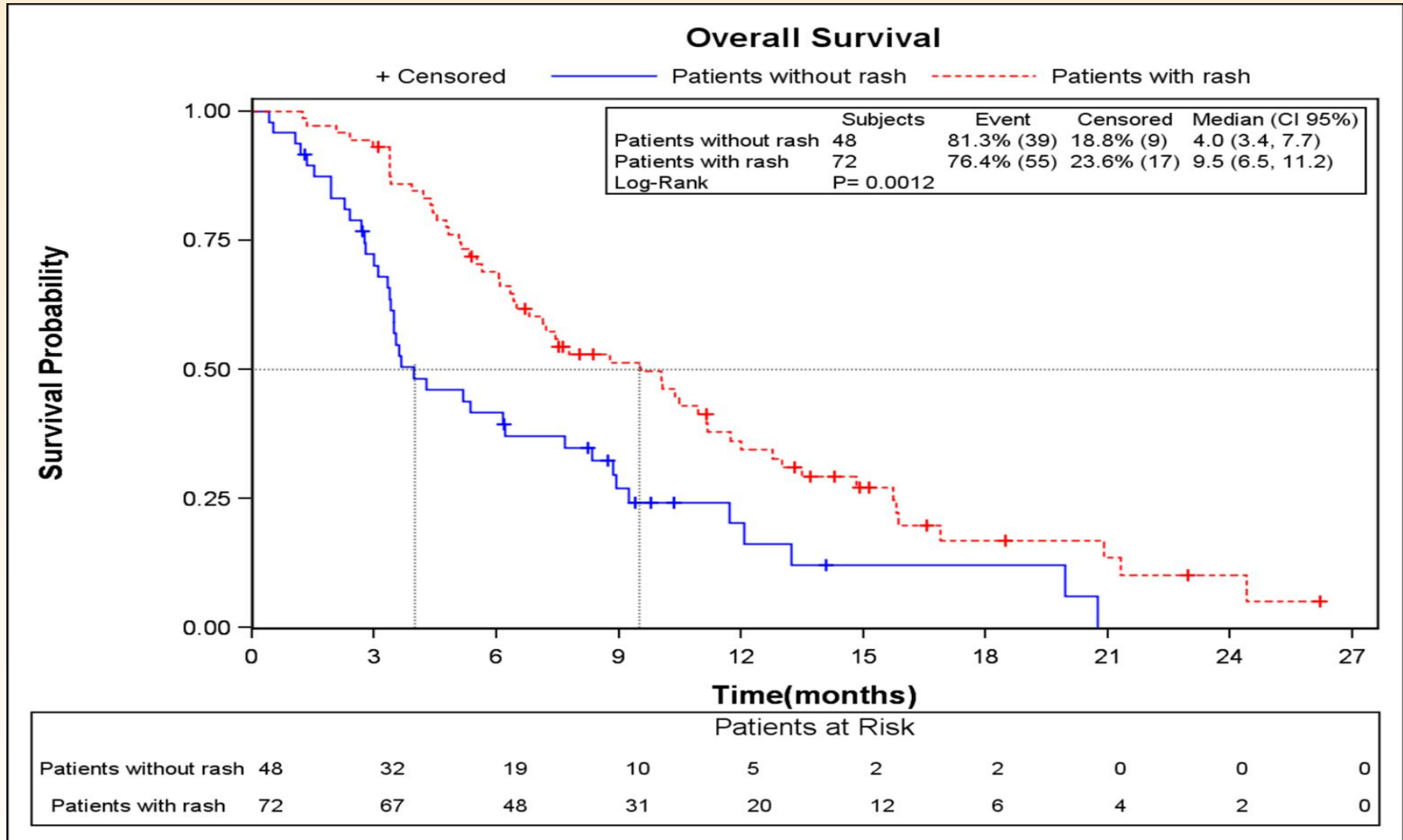
Best confirmed response rate		GE N=60	GEC N=60	P value test*
PR	N(%)	<b>7 (11.67)</b>	<b>9 (15.00)</b>	<b>0.5810</b>
SD	N(%)	26 (43.33)	30 (50.00)	
PD	N(%)	23 (38.33)	16 (26.67)	
NE	N(%)	4 (6.67)	5 (8.33)	

\* Fisher test



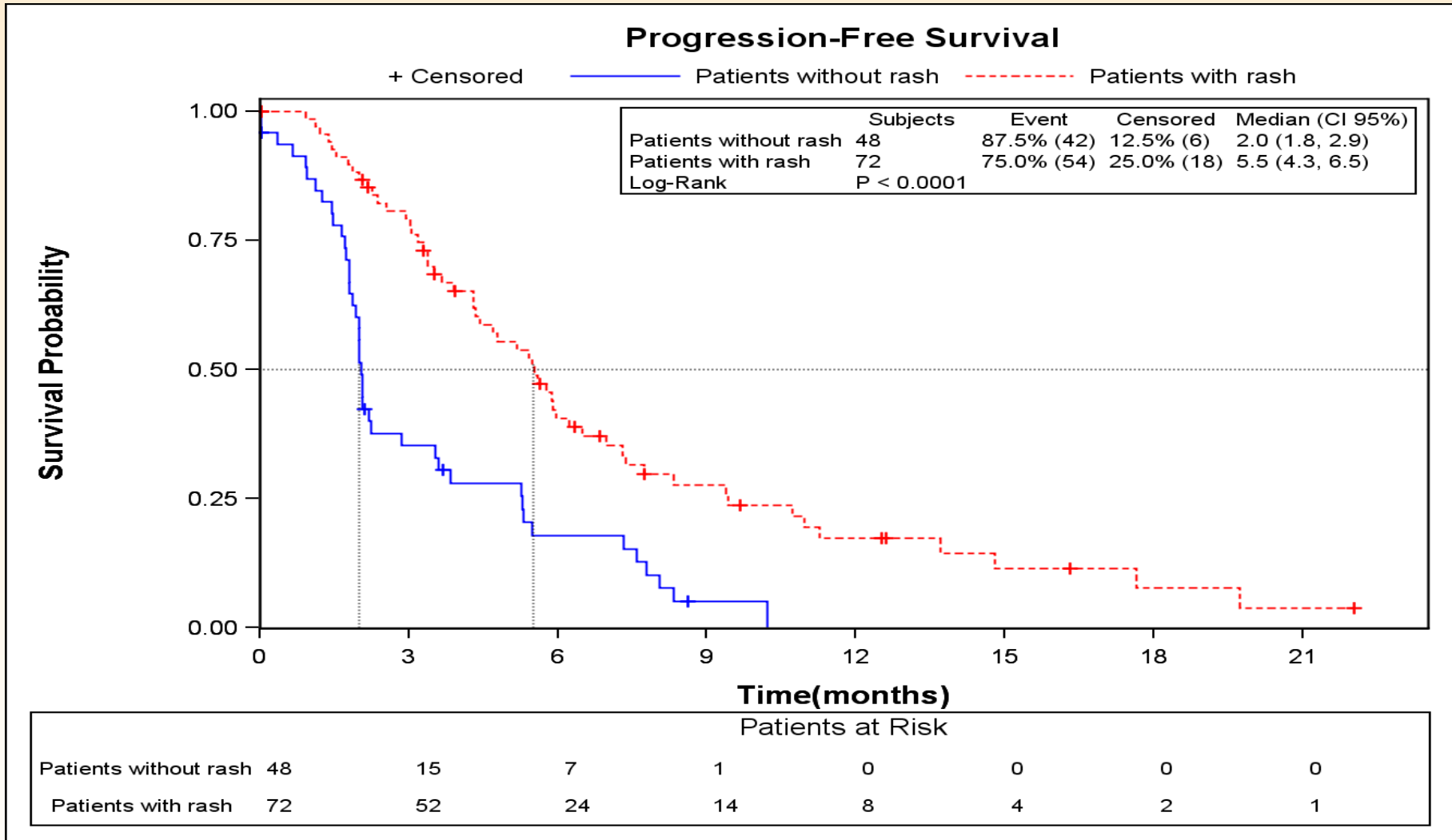
# GECA trial

**OS according to rash ( $G \geq 1$  vs  $G=0$ )**



# GECA trial

## PFS according to rash ( $G \geq 1$ vs $G=0$ )



# GECA trial

***PFS and OS according to rash ( $G \geq 1$  vs  $G=0$ ) and treatment***

GEC			GE	
	Rash $G \geq 1$	No Rash ( $G=0$ )	Rash $G \geq 1$	No Rash ( $G=0$ )
PFS	5.9	2.0	5.5	2
OS	8.8	4.3	10	4

# GECA trial: Conclusions

PFS was not different between GEC and GE arms and it did not meet the criterion for statistical significance.

Response rate (RR) and OS were similar between the two arms without statistically significant differences

Skin rash strongly predicted erlotinib efficacy (PFS and OS).





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