



III National Congress **SEOQ**
Spanish Society of Surgical Oncology

V Meeting **GECOP**
Spanish Group of Peritoneal Cancer Surgery

October 3 - 4, 2013
PALACIO DE CONGRESOS DE ALICANTE
ILUSTRE COLEGIO OFICIAL DE MÉDICOS DE ALICANTE



MASTECTOMÍA PROFILÁCTICA Y TERAPÉUTICA EN PACIENTES BRCA+

Álvaro Rodríguez-Lescure

Oncología Médica

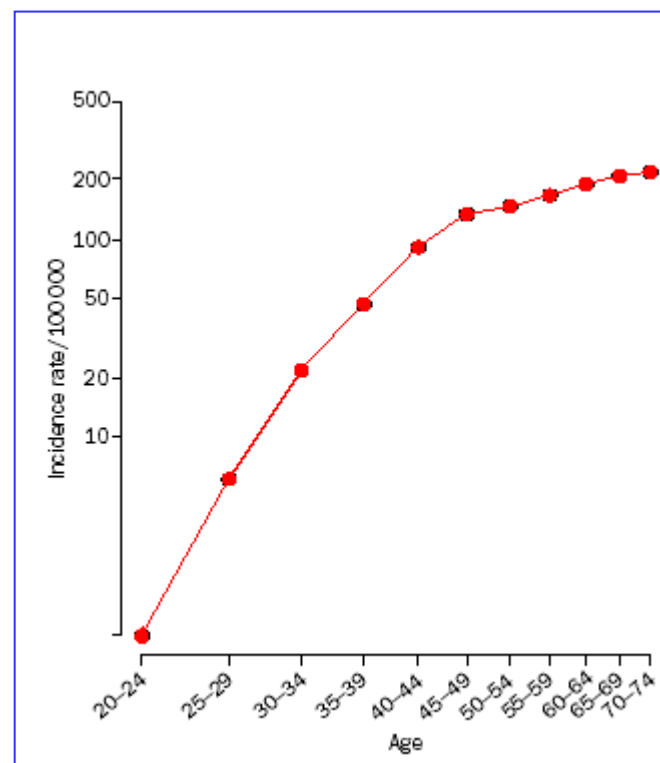
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Table 1. Risk Factors for Breast Cancer.*

Risk Factor	Relative Risk
<i>BRCA1</i> or <i>BRCA2</i> mutation	10.0–32.0
Family history of cancer (no known mutation)†	
1 first-degree relative	1.5–2.0
2 first-degree relatives	3.0
3 or more first-degree relatives	4.0
1 second-degree relative	1.2–1.5
Therapeutic radiation to chest at <30 yr of age‡	7.0–17.0
Hormonal factors	
Late (age >30 yr) parity or nulliparity	1.2–1.7
Early (age <12 yr) menarche or late menopause (age >55 yr)	1.2–1.3
Combined hormone-replacement therapy (e.g., for 10 or more yr)	1.5
Postmenopausal obesity	1.2–1.9
Alcohol consumption (2 drinks/day vs. none)	1.2
Smoking before first live birth	1.2
Sedentary lifestyle	1.1–1.8
White race	1.1–1.5
Breast density (very dense vs. mainly fatty)	5.0
Atypical ductal or lobular hyperplasia or lobular carcinoma in situ on previous breast biopsy	4.0



Riesgos y opciones



❑ BRCA 1 y 2:

- 40-66% de probabilidad de cáncer de mama
- 13-46% de probabilidad de cáncer de ovario

❑ Opciones:

- Mastectomía profiláctica: ↓Riesgo de CM en un 90-95%
- Ooforectomía profiláctica: ↓Riesgo de CO en un 80-90%
↓Riesgo CM en un 50-70% (PREM)

Dudas en BRCA1

Exceso de mortalidad por Parkinson y Demencia.

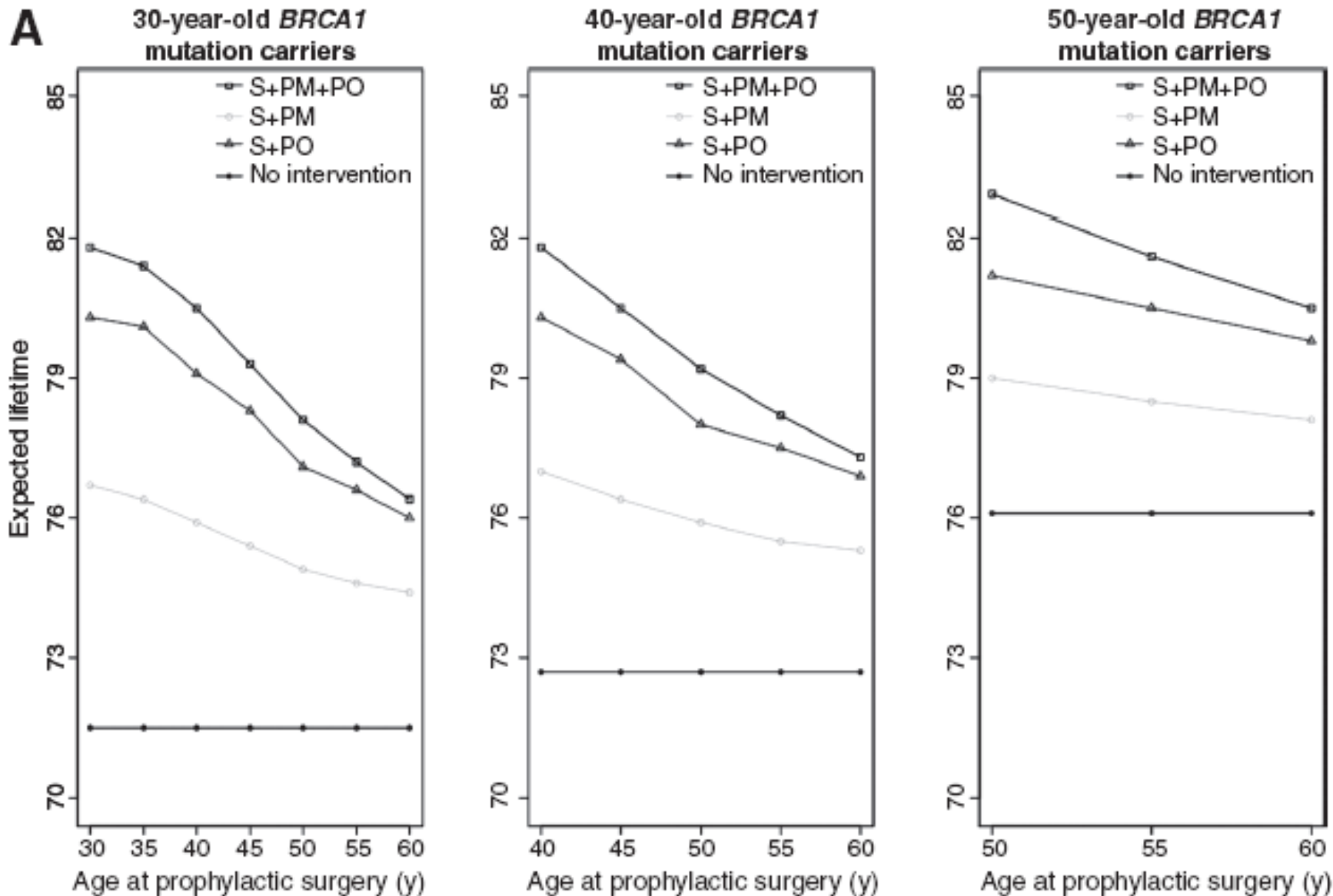
- Cribado específico
- SERMs

❑ Impacto real desconocido.

❑ ¿Hay un exceso de indicaciones basadas en la cirugía oncoplástica?



Strategy	Life expectancy, ^a y					
	<i>BRCA1</i> mutation carrier Age at carrier status determination, y			<i>BRCA2</i> mutation carrier Age at carrier status determination, y		
	30	40	50	30	40	50
No S and no PM and no PO	41.5	32.7	26.1	48.6	39.4	30.7
Gain in life expectancy, y						
S ^b	2.6	2.2	1.4	1.6	1.4	1.0
PM	5.2	4.3	2.8	3.1	2.7	2.0
PO	7.4	6.1	3.3	3.0	2.4	1.3
PM and PO	10.3	9.1	6.8	4.4	3.9	3.4
S and PO	8.8	7.6	5.1	3.7	3.1	2.4
Gain in life expectancy when prophylactic surgery is delayed by 5 y						
Delayed PM	4.6	3.0	1.7	2.9	2.3	1.3
Delayed PO	7.0	5.0	2.7	2.9	2.2	0.9
Delayed PM and PO	9.6	7.0	4.8	4.1	3.4	2.3
S and delayed PM	4.9	3.7	2.4	3.0	2.5	1.7
S and delayed PO	8.6	6.7	4.4	3.6	3.0	2.0
S and delayed (PM and PO)	9.9	7.8	5.5	4.2	3.6	2.7
Gain in life expectancy when prophylactic surgery is delayed by 10 y						
Delayed PM	3.7	1.8	1.0	2.5	1.7	0.8
Delayed PO	5.5	2.8	2.1	2.3	1.2	0.5
Delayed PM and PO	8.2	5.0	3.2	3.7	3.0	1.4
S and delayed PM	4.4	3.2	2.0	2.8	2.2	1.5
S and delayed PO	7.6	5.3	3.7	3.3	2.7	1.6
S and delayed PM and PO	9.0	6.5	4.4	4.0	3.6	2.0



Satisfacción e impacto sociopsicológico

- 54 pts. Mastectomía bilateral + RI
- Posición: 77%
- Simetría: 89%
- Tasa de complicación: 18%
- Reintervención: 11%
- Satisfacción: 3 cuestionarios: Alta
- Repetir misma cirugía: 100%



- ❑ 23 estudios. 4000 pts
- ❑ most of the women deemed high risk by family history (but not necessarily BRCA 1 or 2 mutation carriers) who underwent these procedures **would not have died from breast cancer, even without prophylactic surgery.** Therefore, women need to understand that this procedure should be considered only among those at very high risk of the disease. **For women who had already been diagnosed with a primary tumor, the data were particularly lacking for indications for contralateral prophylactic mastectomy.** While it appeared that contralateral mastectomy may reduce the incidence of cancer in the contralateral breast, there was insufficient evidence about whether, and for whom, CPM actually improved survival.



- Physical morbidity is not uncommon following PM, and many women underwent **unanticipated re-operations** (usually due to problems with reconstruction): **30-49%**.
- Regarding psychosocial outcomes, women generally reported satisfaction with their decisions to have PM but **reported satisfaction less consistently for cosmetic outcomes, with diminished satisfaction often due to surgical complications**. Therefore, physical morbidity and post-operative surgical complications were areas that should be considered when deciding about PM
- **Of the psychosocial outcomes measured, body image and feelings of femininity were the most adversely affected.**



- ❑ 620 pts 1960-93 con MPC
- ❑ >10 años de seguimiento: Satisfechas: 83%
- ❑ Menor satisfacción con mastectomía subcutánea
- ❑ Satisfacción negativa en:
 - Sentimiento de femineidad: 33%
 - Apariencia corporal: 26%
 - Relaciones sexuales: 23%



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Nuevas tendencias en el tratamiento del cáncer de mama c-erb-B2+

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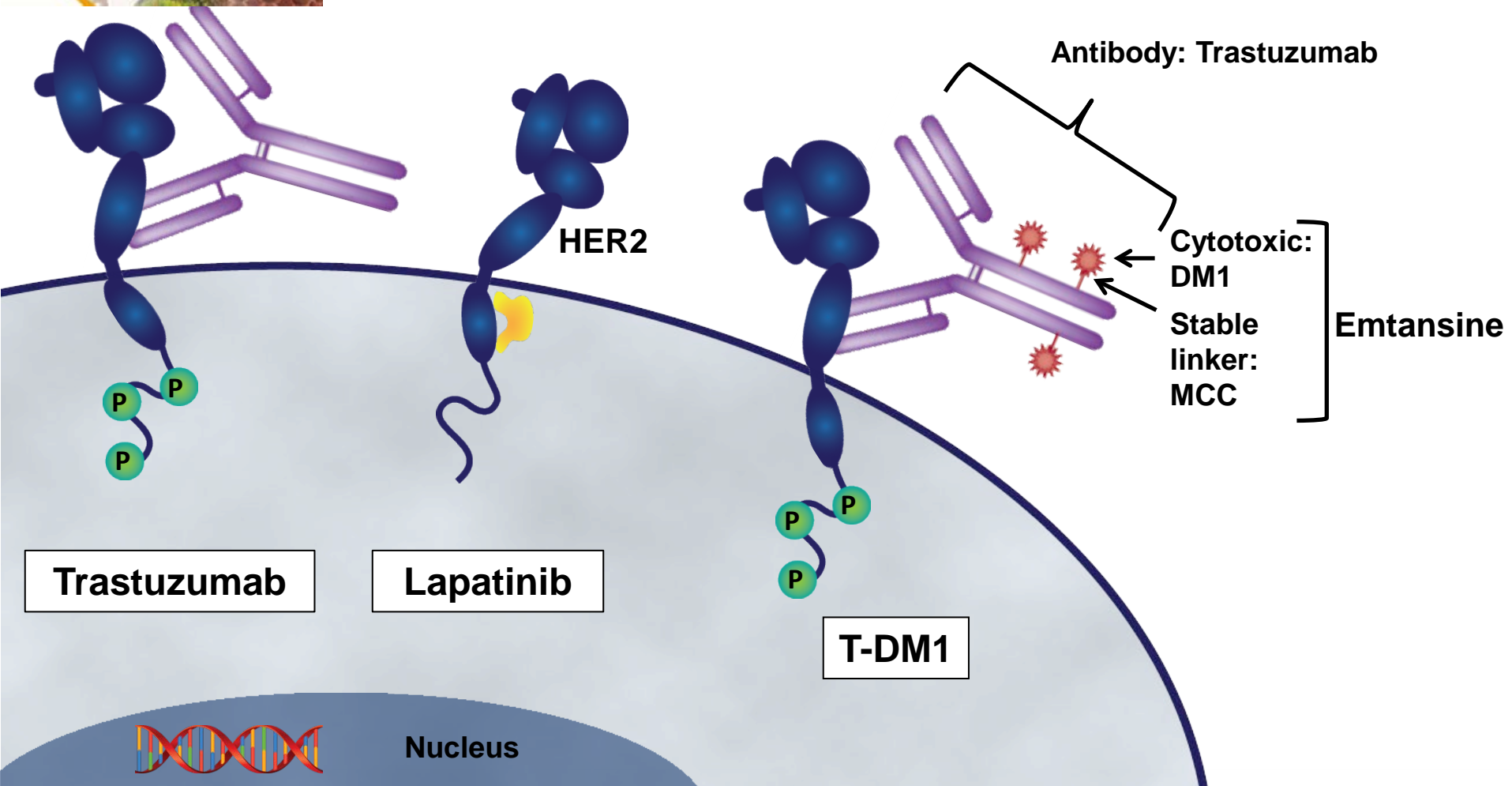
Hospital General Universitario de Elche

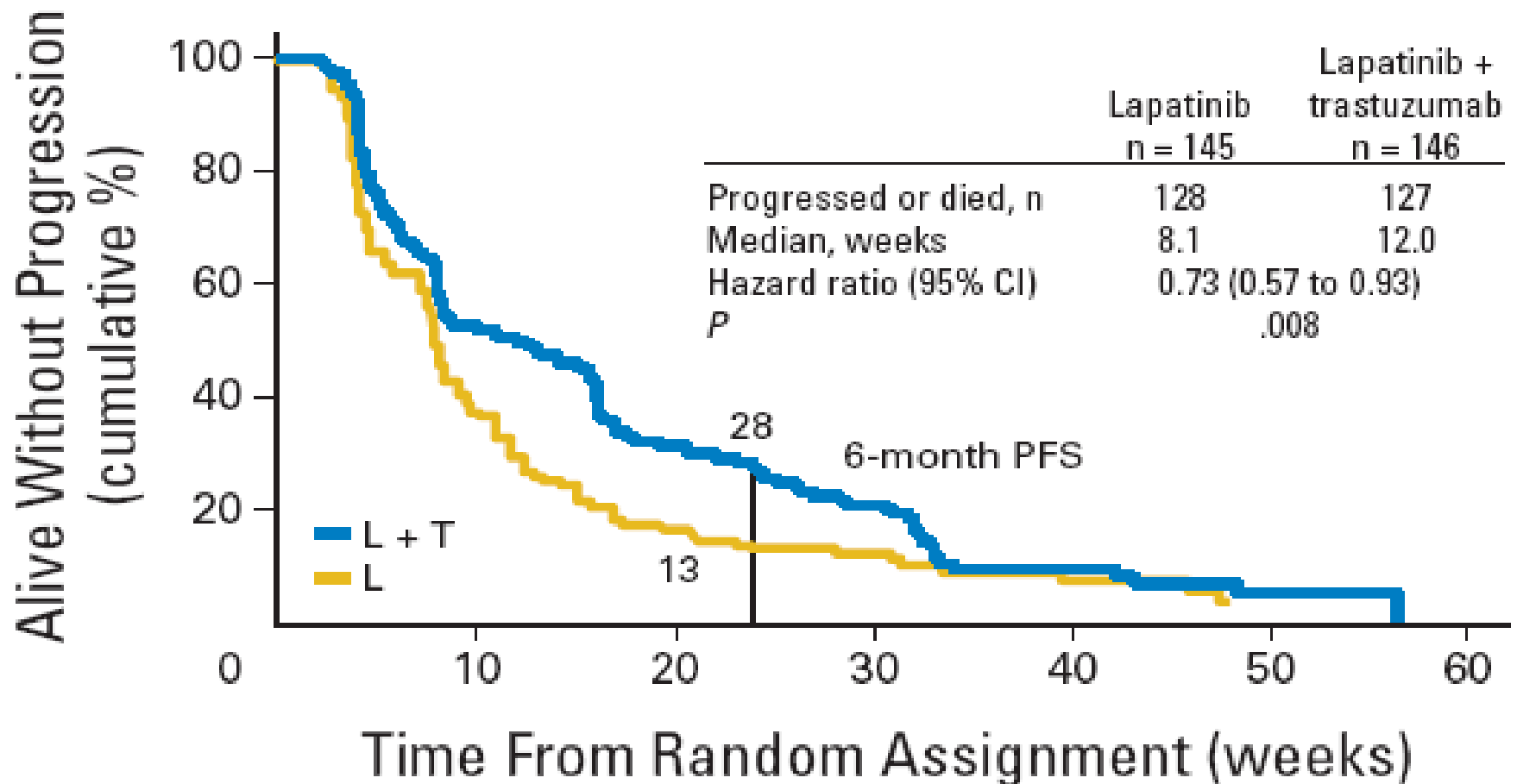
Hospital Vega Baja de Orihuela



- ❑ Paradigma de la terapia dirigida en cáncer de mama. Vía HER2: Valor pronóstico y predictivo
- ❑ Impacto en supervivencia en enfermedad avanzada y en la enfermedad inicial

Targeted Therapies for HER2+ Breast Cancer: Trastuzumab, Lapatinib, and T-DM1



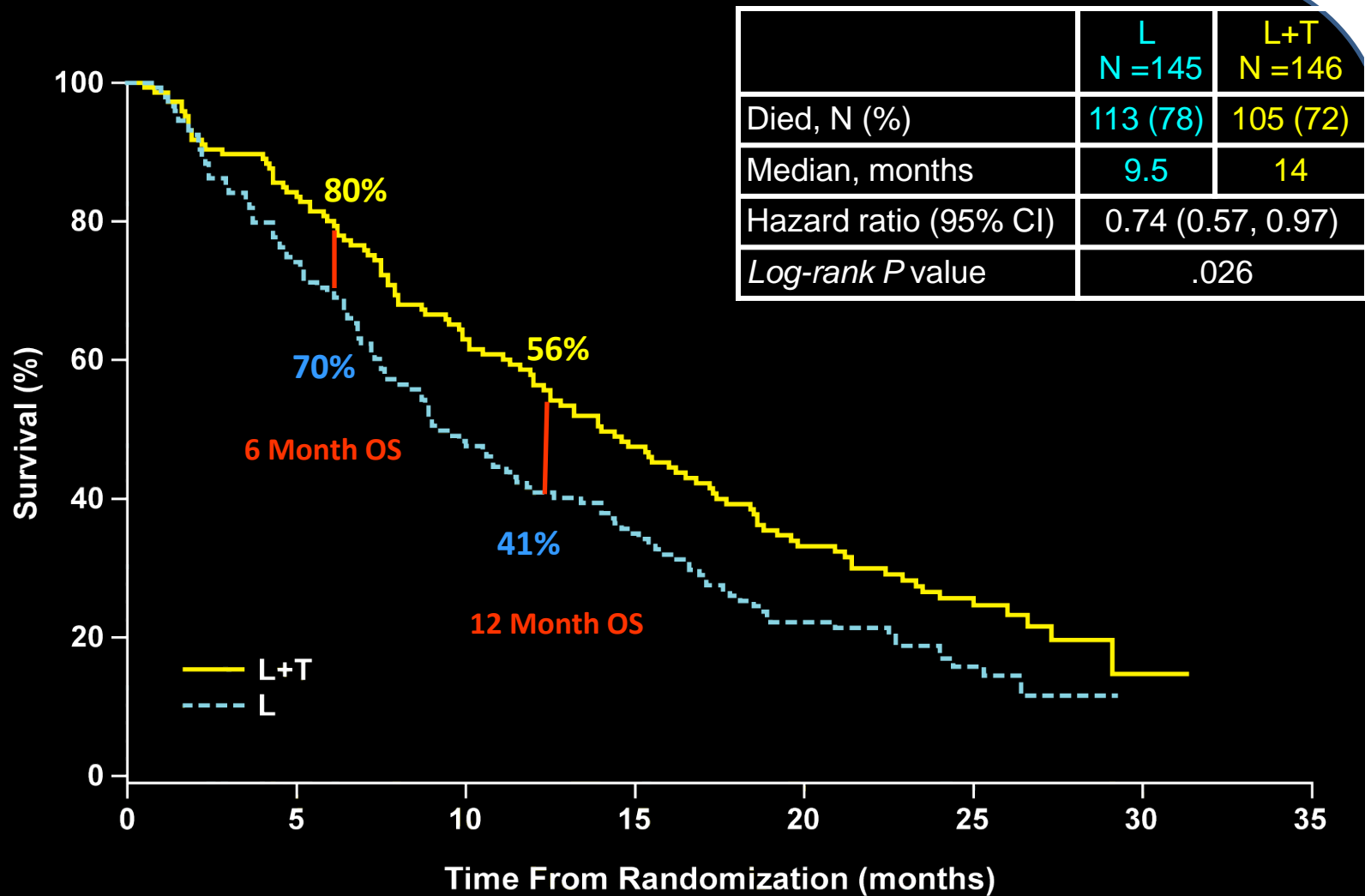


No. of patients at risk

L	148	53	21	13	5	0
L + T	148	73	42	27	8	2

El doble bloqueo de Her-2 incrementa SLP y SG en cáncer de mama metastásico Her2+. *Blackwell KL et al; JCO 2010*

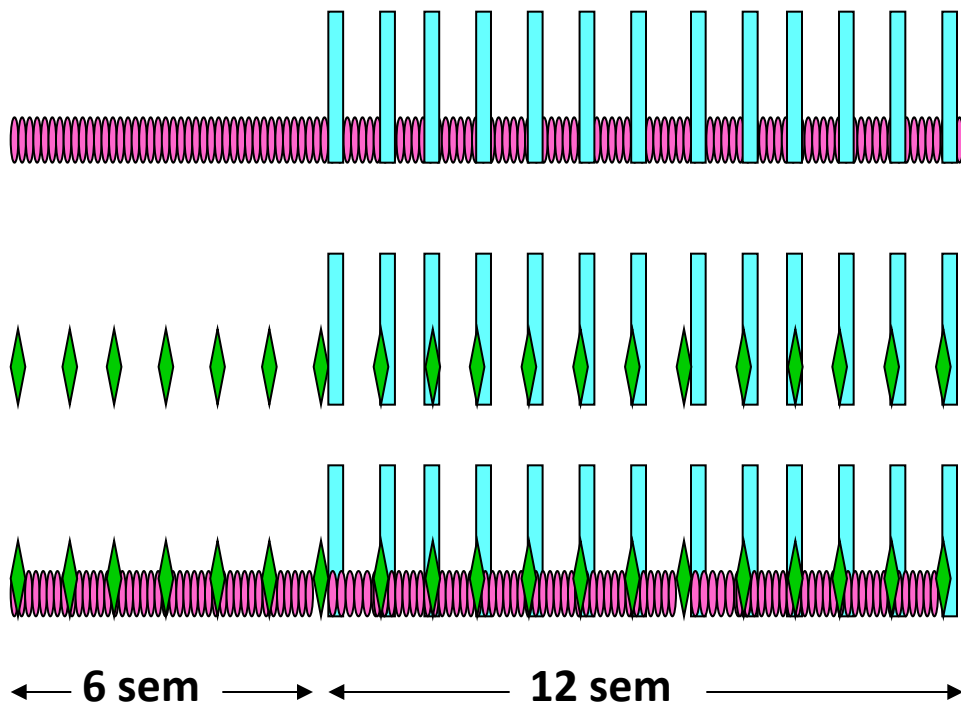
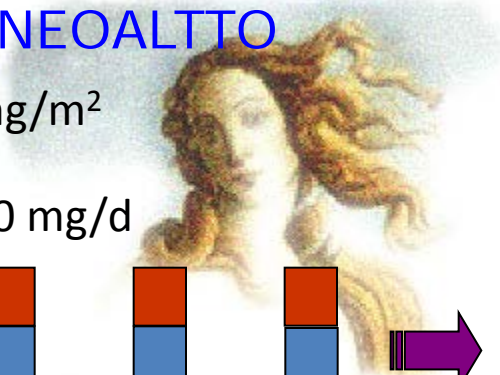
Updated Overall Survival in ITT



Patients at Risk

	0	5	10	15	20	25	30
L + T	148	121	88	64	43	25	1
L	148	102	65	47	28	13	

ESTUDIO NEOALTTO



Paclitaxel 80 mg/m²

Lapatinib: 1500 mg/d

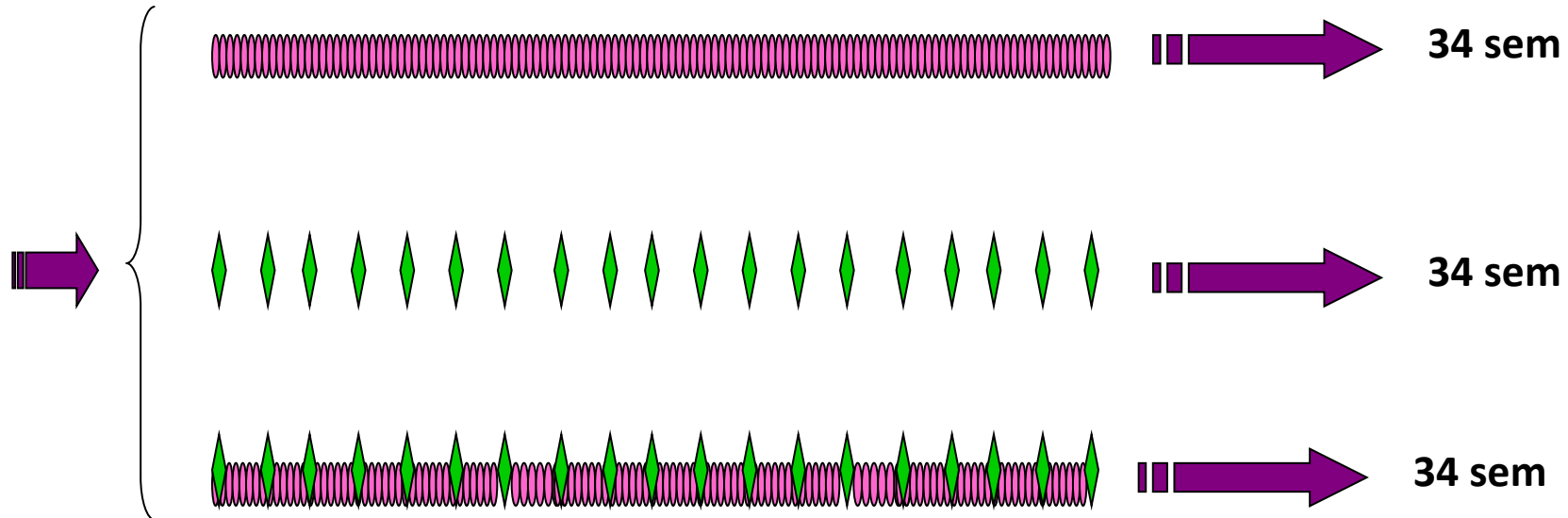


CIR

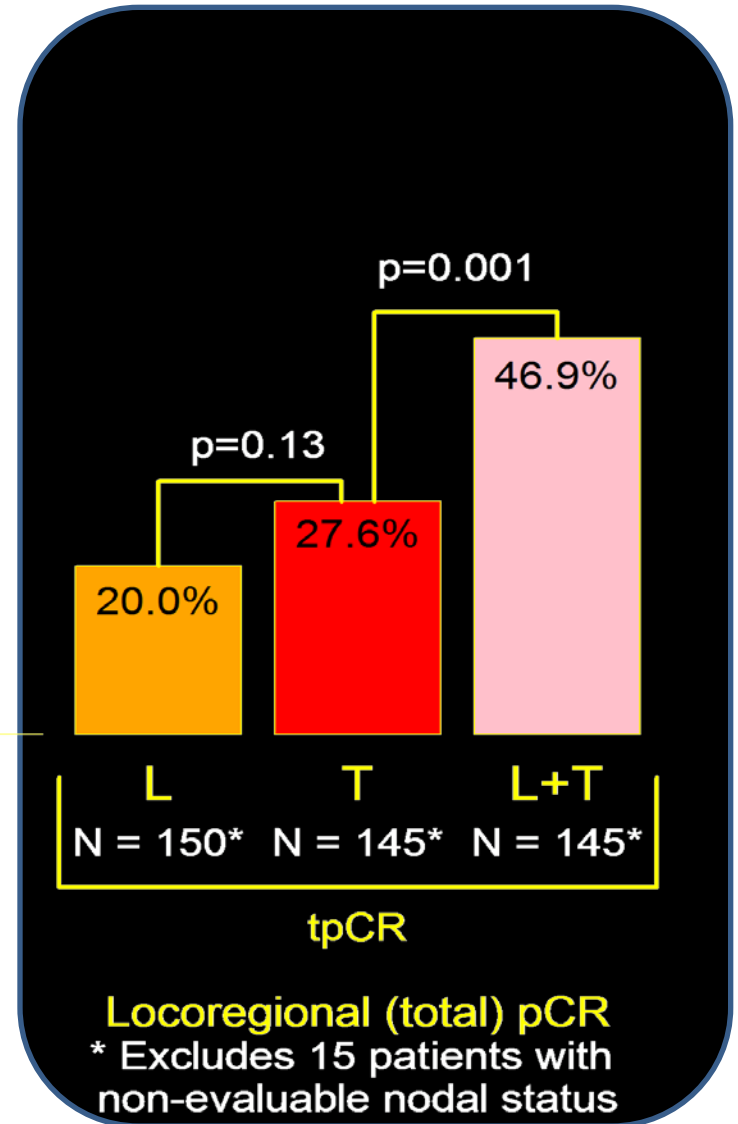
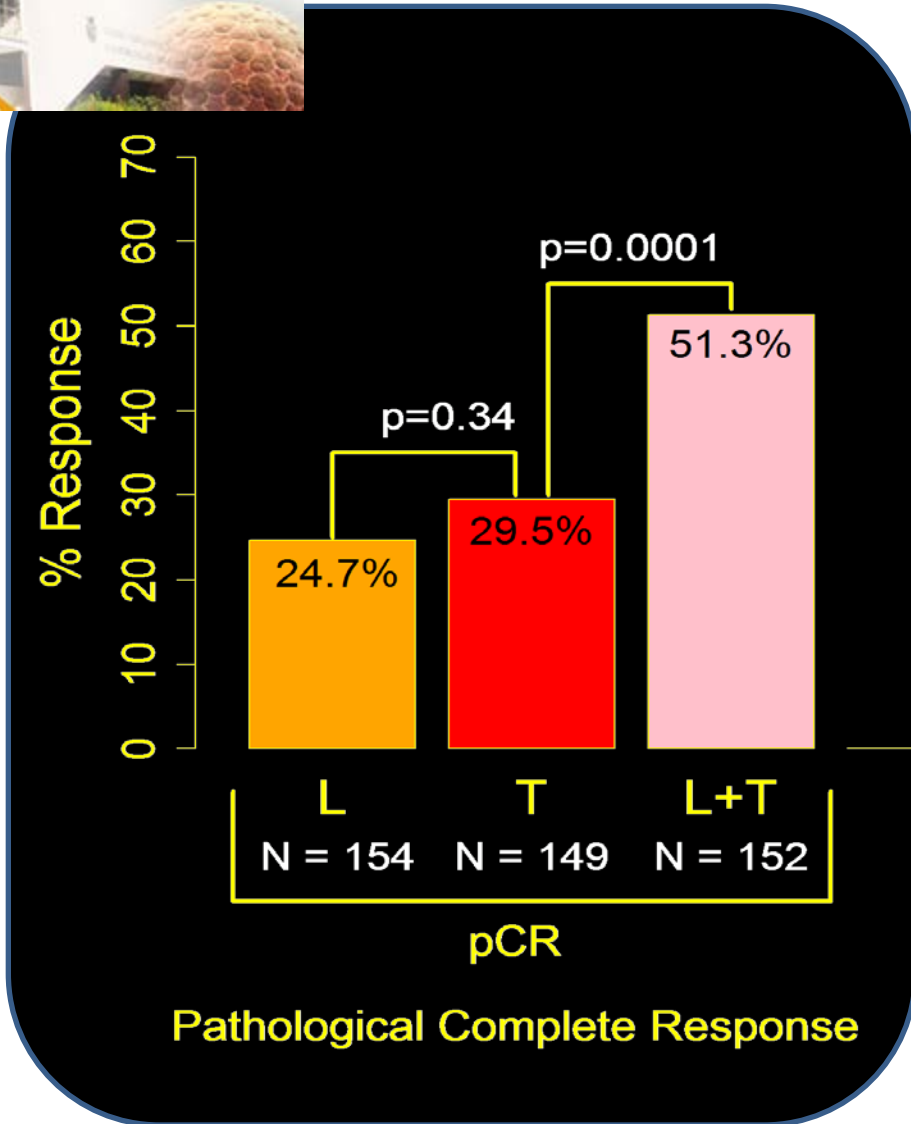


Lapatinib: 1000 mg/d → 750 mg/d

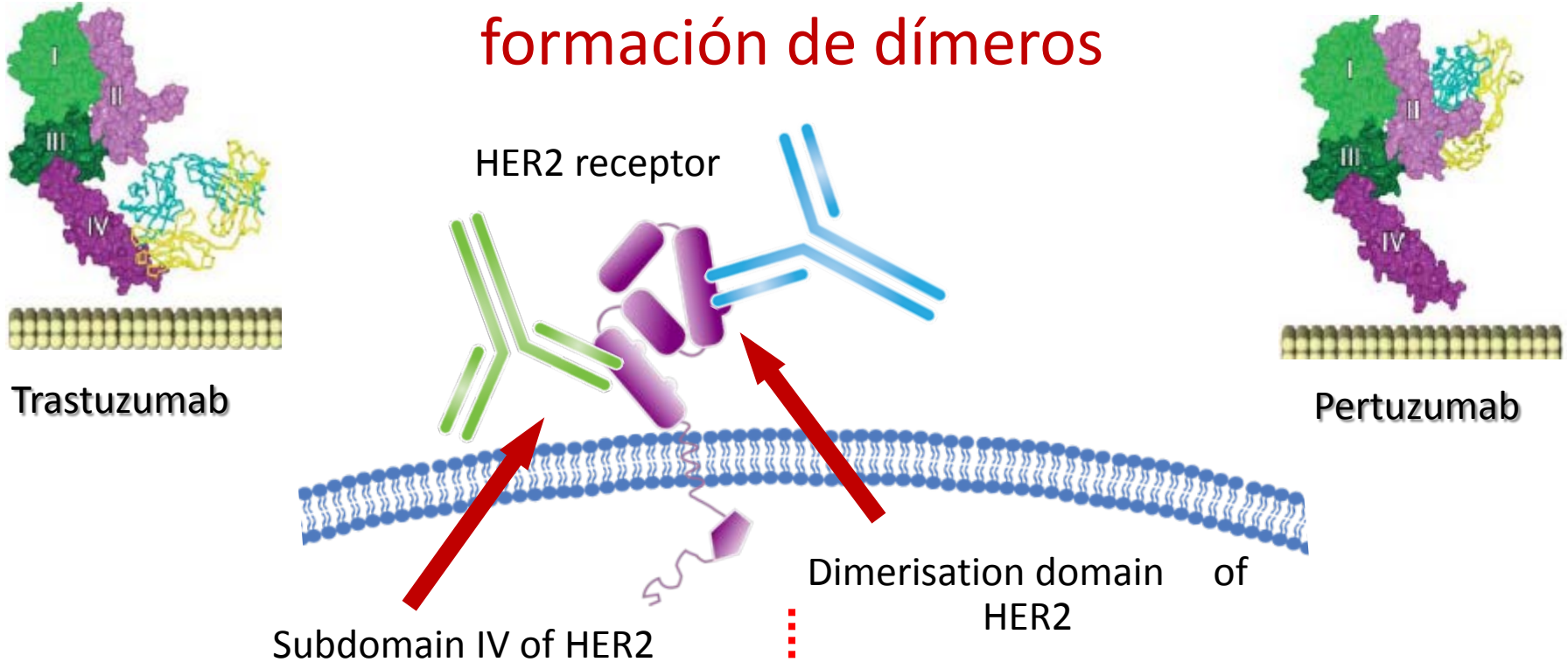
FEC cada 3 sem



Eficacia: pCR and tpCR



Pertuzumab se une al subdominio responsable de la formación de dímeros



- Herceptin continually suppresses HER2 activity
- Flags cells for destruction by the immune system
- Does not inhibit HER2 dimerisation

- **Pertuzumab inhibits HER2 forming dimer pairs**
- Suppresses multiple HER signalling pathways
- Flags cells for destruction by the immune system



Papel de Trastuzumab+ Pertuzumab en la 1ª línea: El estudio CLEOPATRA

HER2-positivo
CMM (n=800^a)

1:1

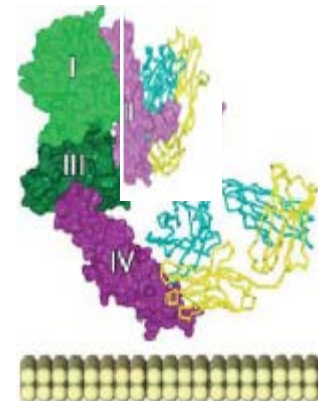
Docetaxel + Trastuzumab + Placebo

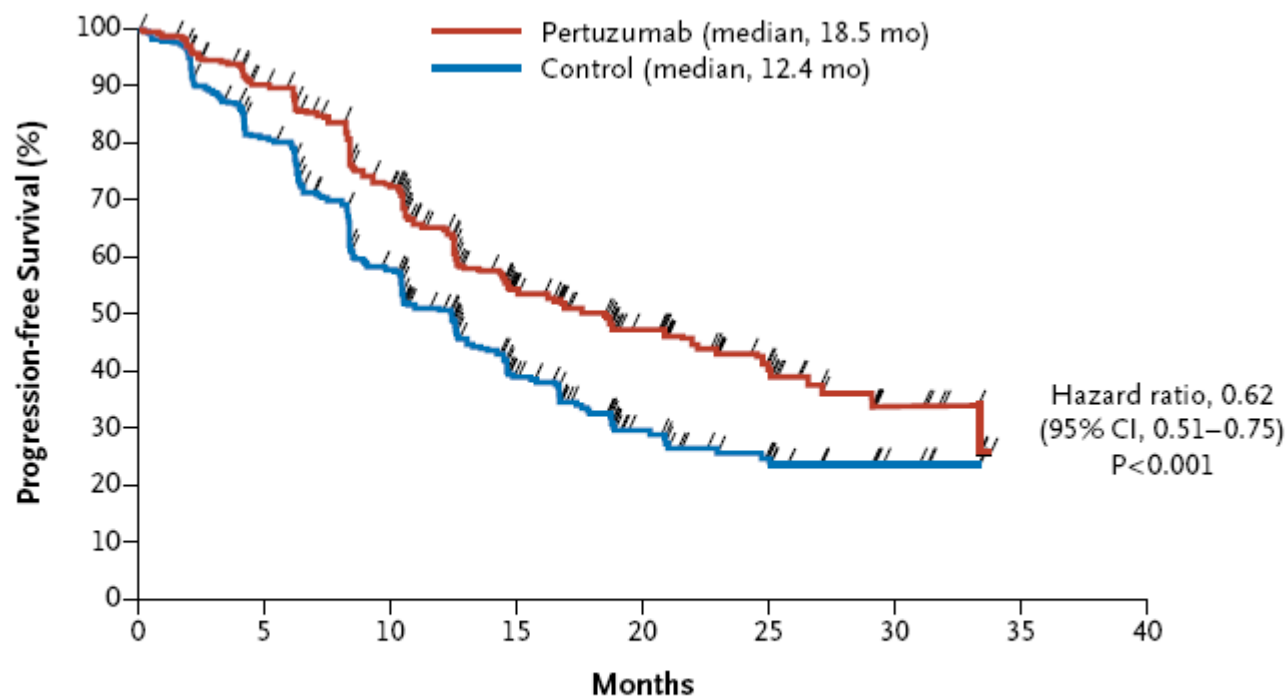
Docetaxel + Trastuzumab + Pertuzumab

Ensayo clínico Internacional fase III, doble ciego, controlado con placebo

- Objetivos

- SLP y SG
- QoL
- Análisis de Biomarcadores





No. at Risk
 Pertuzumab
 Control

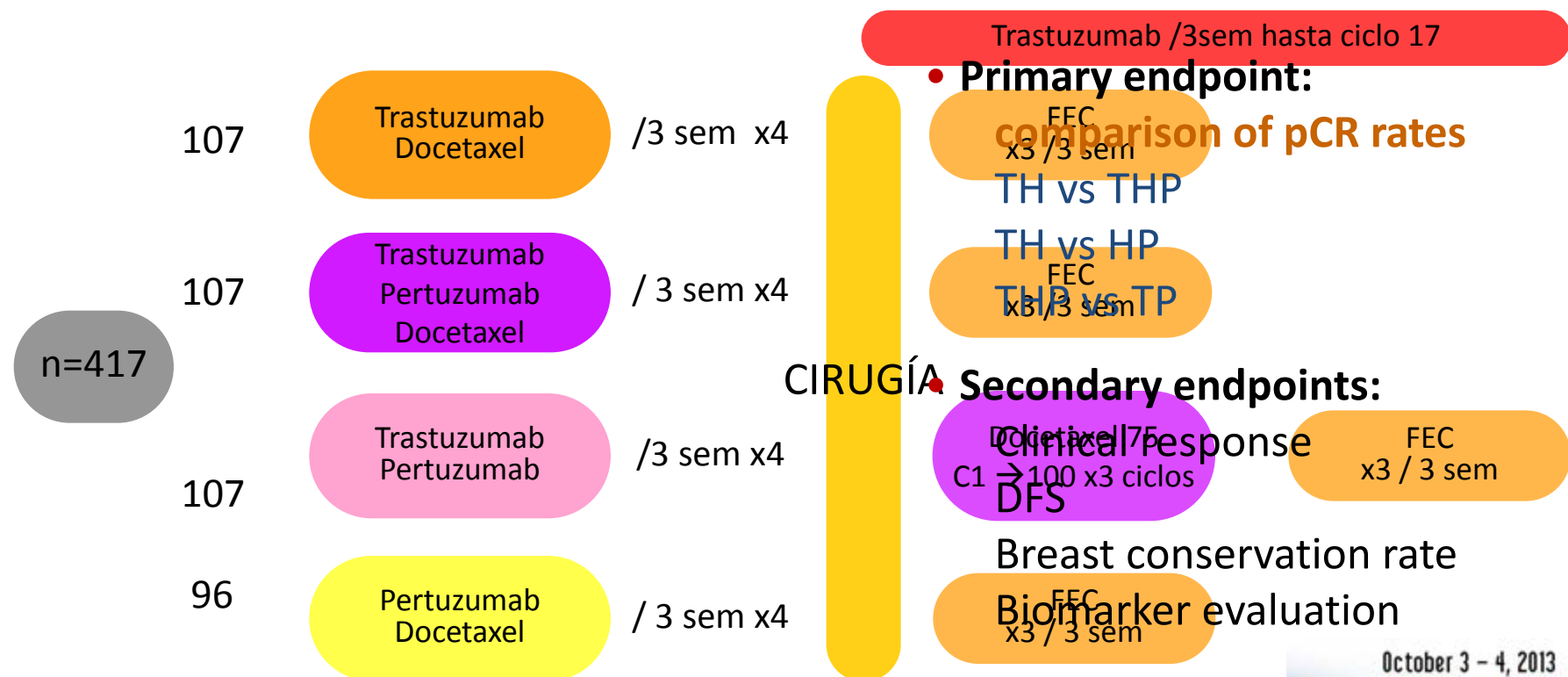
402	345	267	139	83	32	10	0	0
406	311	209	93	42	17	7	0	0

- Her2 +
- >2 cm
- Operable y Loc. Avanz.

Diseño del Neosphere

Neoadyuvancia

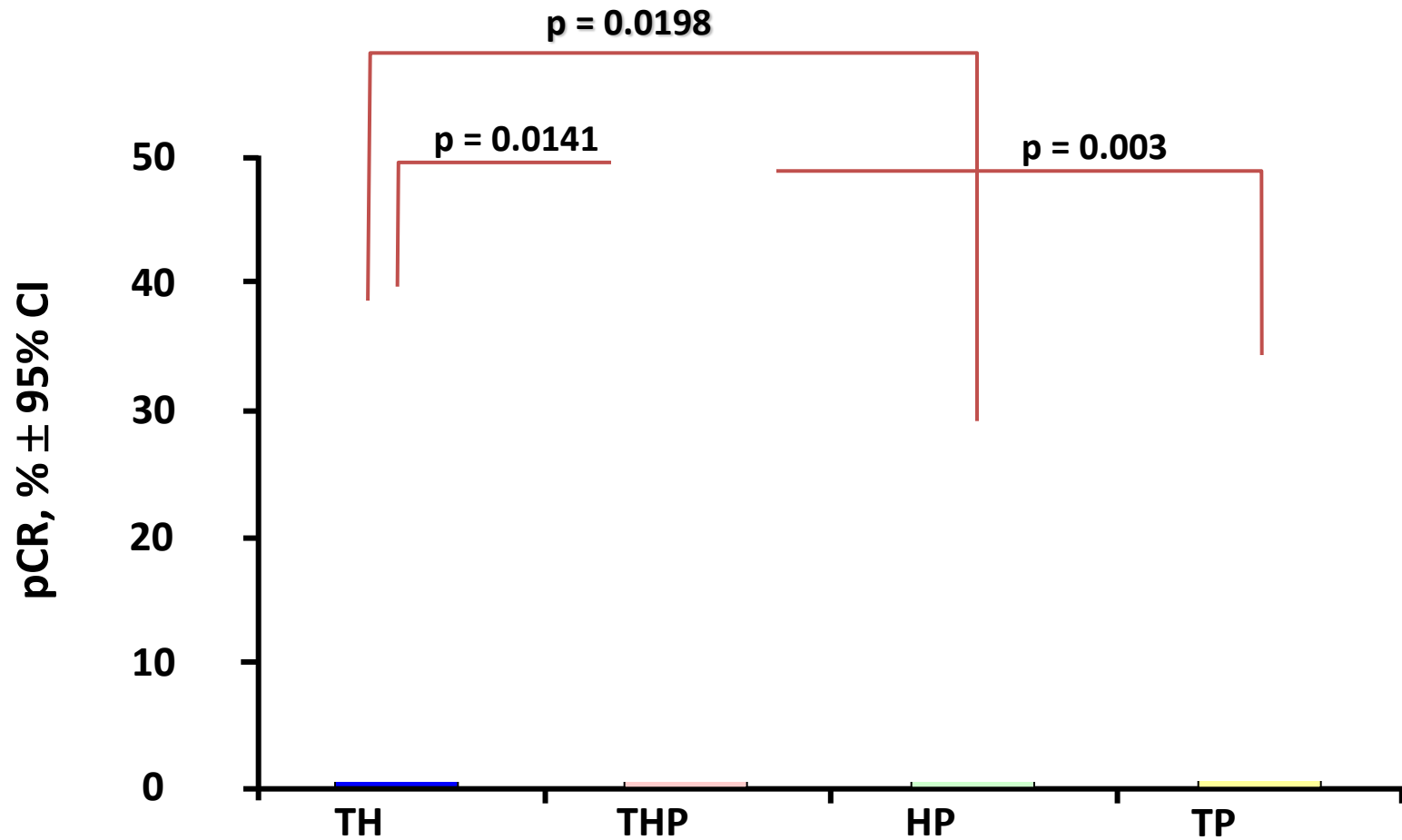
Adyuvancia



FEC = 5-fluorouracilo, epirubicina, ciclofosfamida;



NeoSphere. Eficacia. Objetivo 1º: pCR



T-DM1: Conjugado Anticuerpo- Quimioterapia



Diana de expresión selectiva: HER2

Anticuerpo monoclonal: Trastuzumab



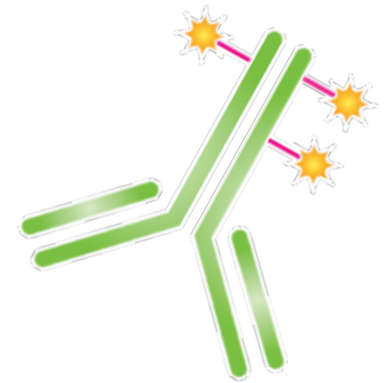
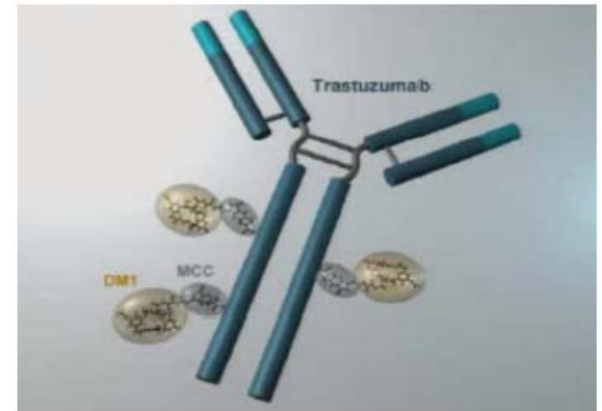
Agente citotóxico: DM1

Quimioterapia, derivada de la maytansina



Linker

MCC: Muy estable
Ruptura intracelular



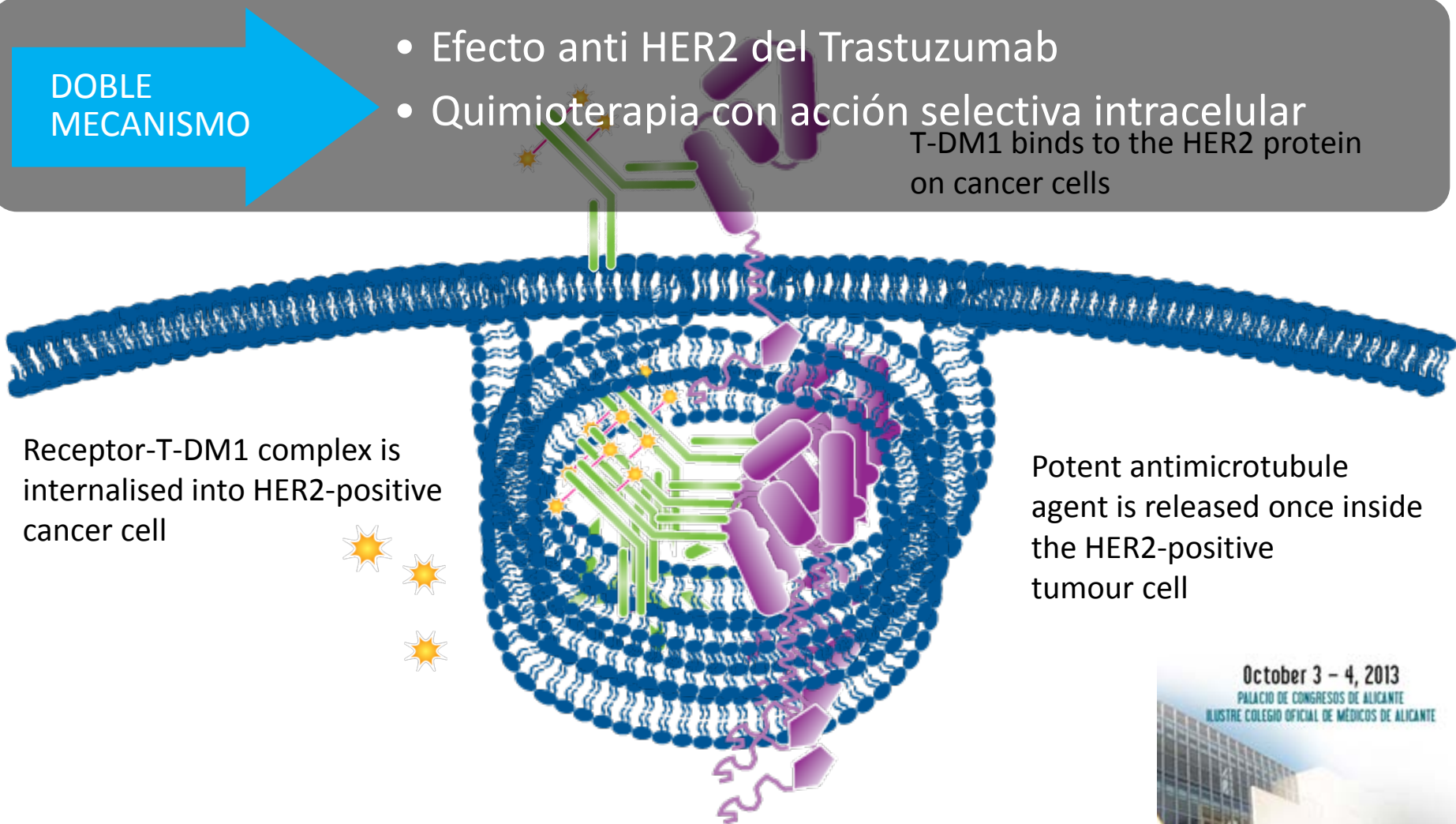
T-DM1



T-DM1 deposita selectivamente una altísima carga citotóxica en la célula HER2+

DOBLE
MECANISMO

- Efecto anti HER2 del Trastuzumab
 - Quimioterapia con acción selectiva intracelular
- T-DM1 binds to the HER2 protein on cancer cells



Receptor-T-DM1 complex is internalised into HER2-positive cancer cell

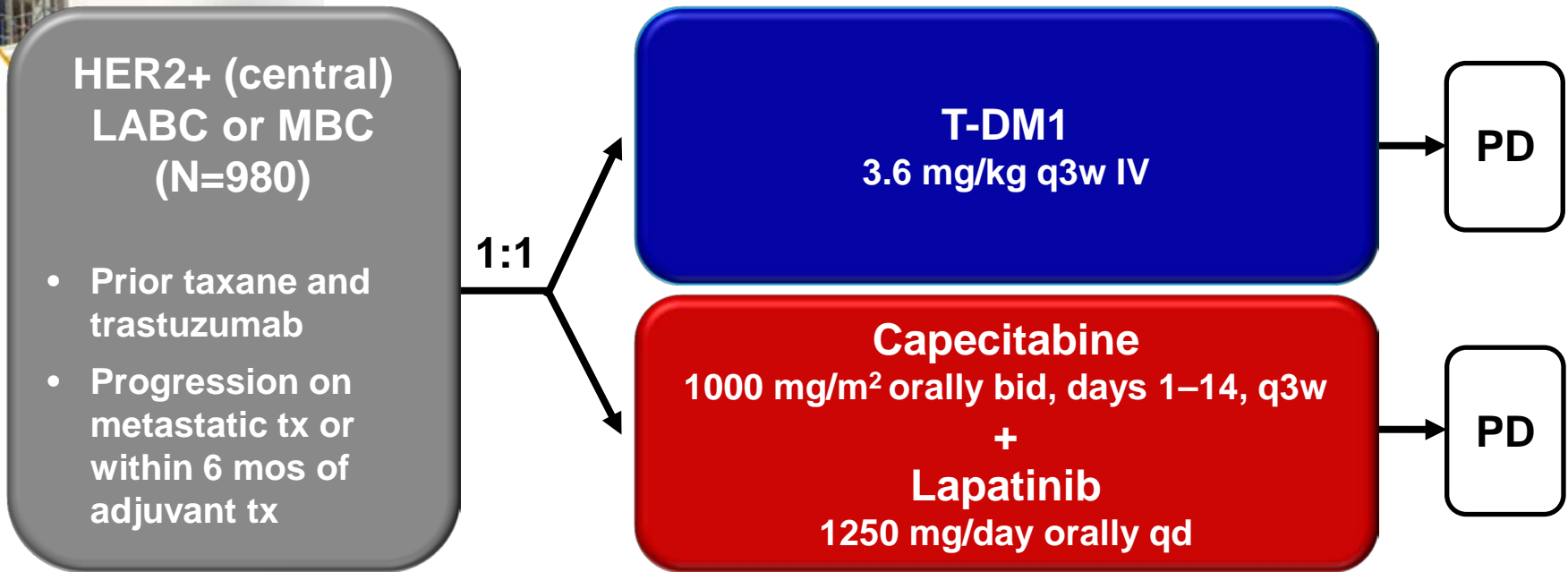


Potent antimicrotubule agent is released once inside the HER2-positive tumour cell

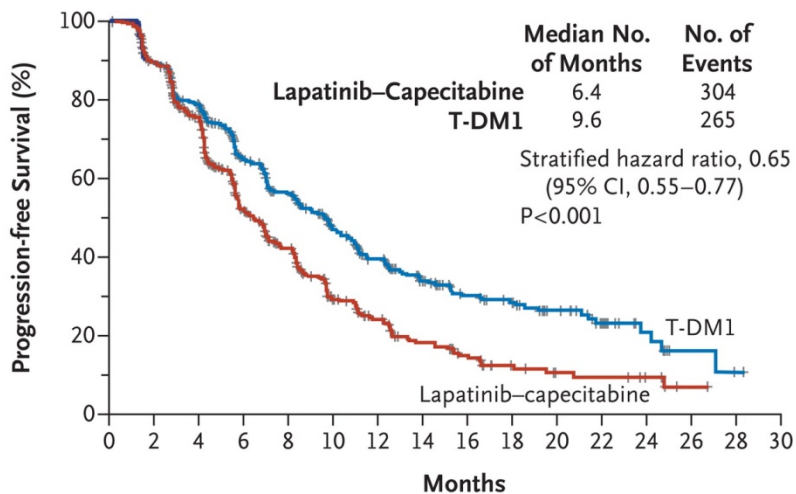
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EMILIA Study Design



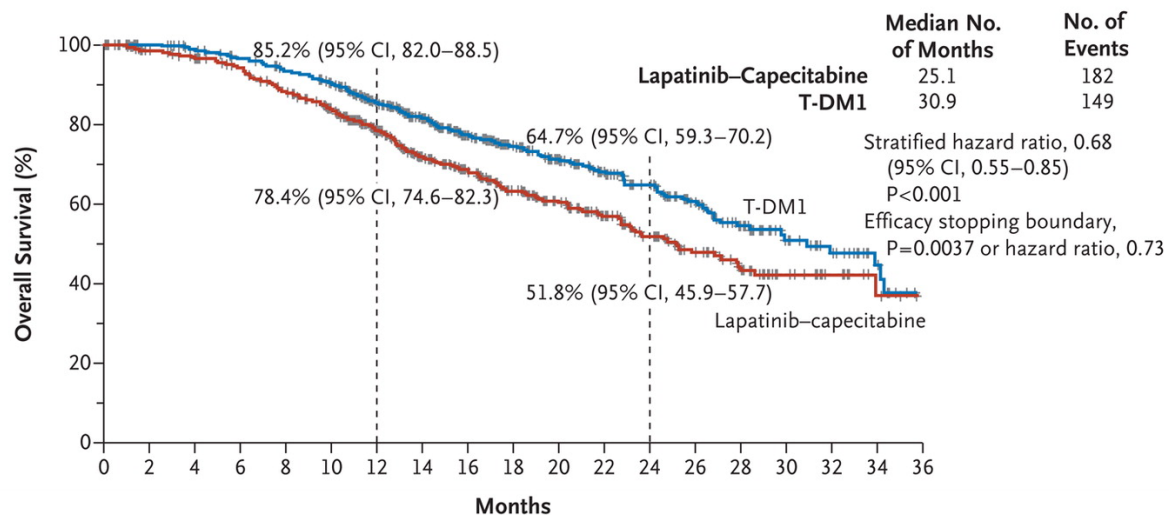
- **Stratification factors:** World region, number of prior chemo regimens for MBC or unresectable LABC, presence of visceral disease
- **Primary end points:** PFS by independent review, OS, and safety
- **Key secondary end points:** PFS by investigator, ORR, duration of response, time to symptom progression



No. at Risk

Lapatinib–capecitabine	496	404	310	176	129	73	53	35	25	14	9	8	5	1	0	0
T-DM1	495	419	341	236	183	130	101	72	54	44	30	18	9	3	1	0

Verma S et al, N Eng J Med 2012



No. at Risk

Lapatinib–capecitabine	496	471	453	435	403	368	297	240	204	159	133	110	86	63	45	27	17	7	4
T-DM1	495	485	474	457	439	418	349	293	242	197	164	136	111	86	62	38	28	13	5



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RESONANCIA MAMARIA Y RESPUESTA PATOLÓGICA COMPLETA.

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Indicaciones para RMN

Lesion characterization

Neoadjuvant chemotherapy

Infiltrating lobular carcinoma

Infiltrating ductal carcinoma

Axillary adenopathy, primary unknown

Postoperative tissue reconstruction

Silicone and non-silicone breast augmentation

Invasion deep to the fascia

Contralateral breast examination in patients with breast malignancy

Postlumpectomy for residual disease

Surveillance of high-risk patients

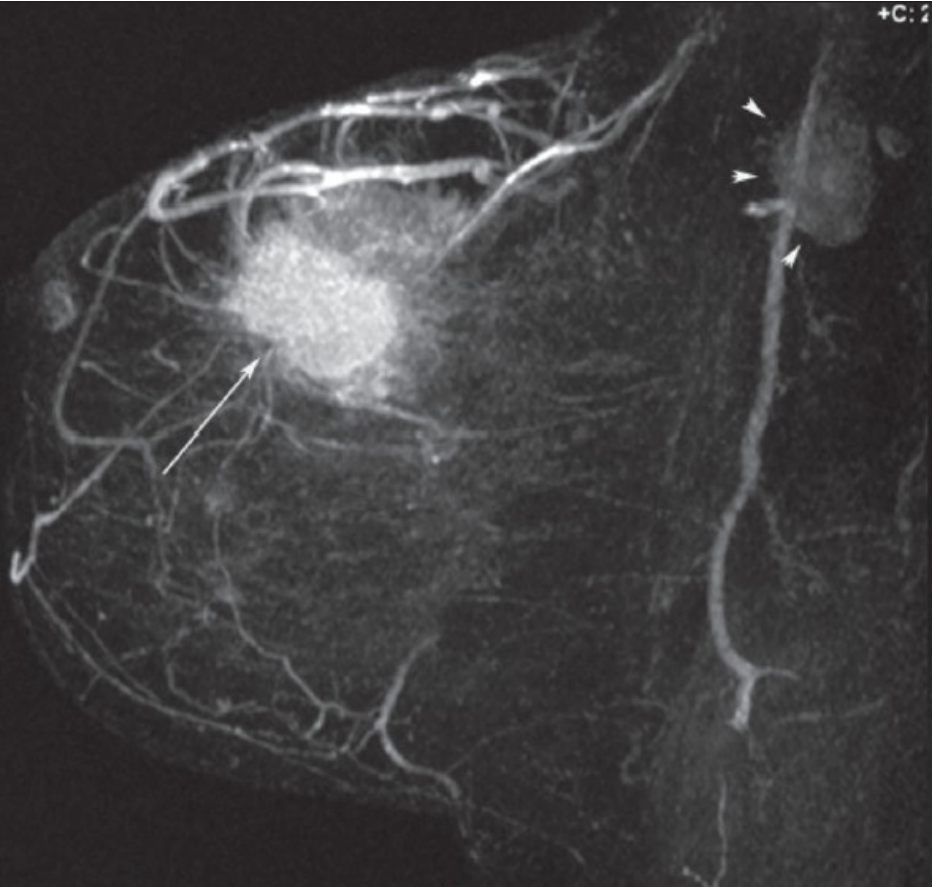
Recurrence of breast cancer



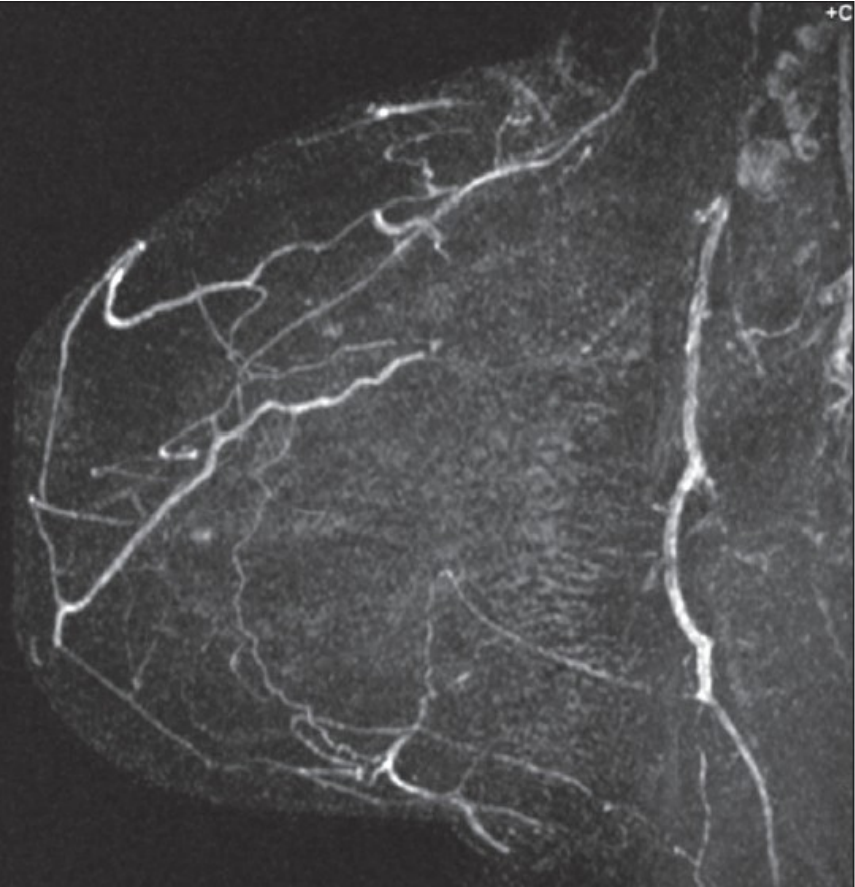
Cancer

- 746 pts
- rCR: 182/746 (24%)
- pCR: 179/746 (24%)
- Overall accuracy: 74%
- VPN HER2+: 62%
- VPN TN: 60%

+C: 1



+C





The role of magnetic resonance imaging in assessing residual disease and pathologic complete response in breast cancer patients receiving neoadjuvant chemotherapy: a systematic review

M. B. I. Lobbes • R. Prevos • M. Smidt •
V. C. G. Tjan-Heijnen • M. van Goethem • R. Schipper •
R. G. Beets-Tan • J. E. Wildberger

3119 estudios-----→35 (2539 pts). 27 prospectivos

	SENSIBILIDAD	ESPECIFICIDAD	VPP	VPN	
	25-100%	50-97%	47-73%	71-100%	

- Buena correlación
- Variable según fenotipo tumoral
- Variable según agente antineoplásico empleado
- Muy superior al examen físico, a la mamografía y a la ecografía
- Riesgo de infra y sobreestimación



Reflexiones

- ❑ Predecir la pCR...
 - ...¿sirve para algo?
- ❑ Predicción positiva: pCR SÍ
 - ¿Vamos a obviar la cirugía?
- ❑ Predicción negativa: pCR NO
 - A fecha de hoy no cambia la decisión de tto

Conclusión

- La RMN sirve para lo que sirve



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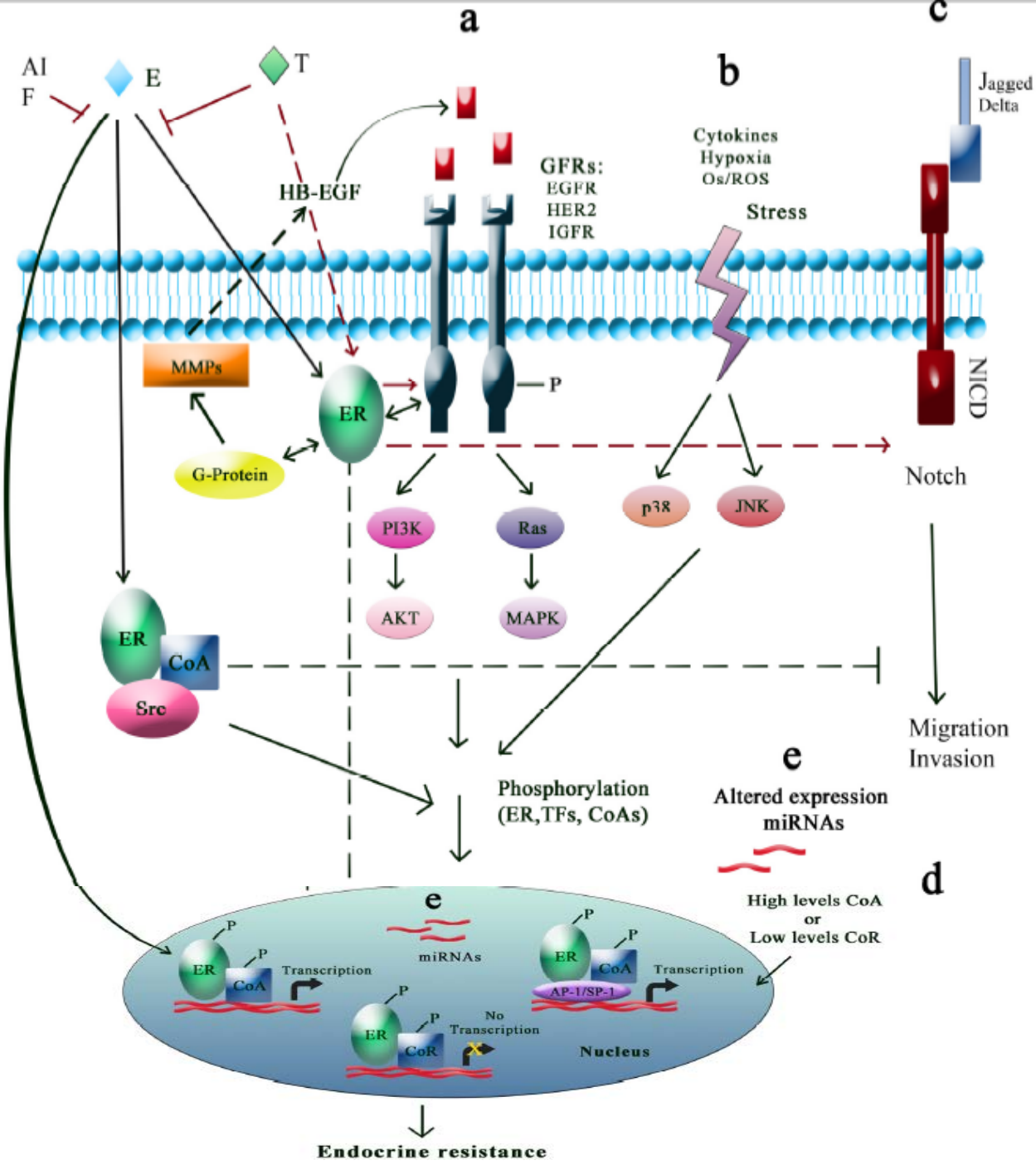
Resistencia a la terapia hormonal

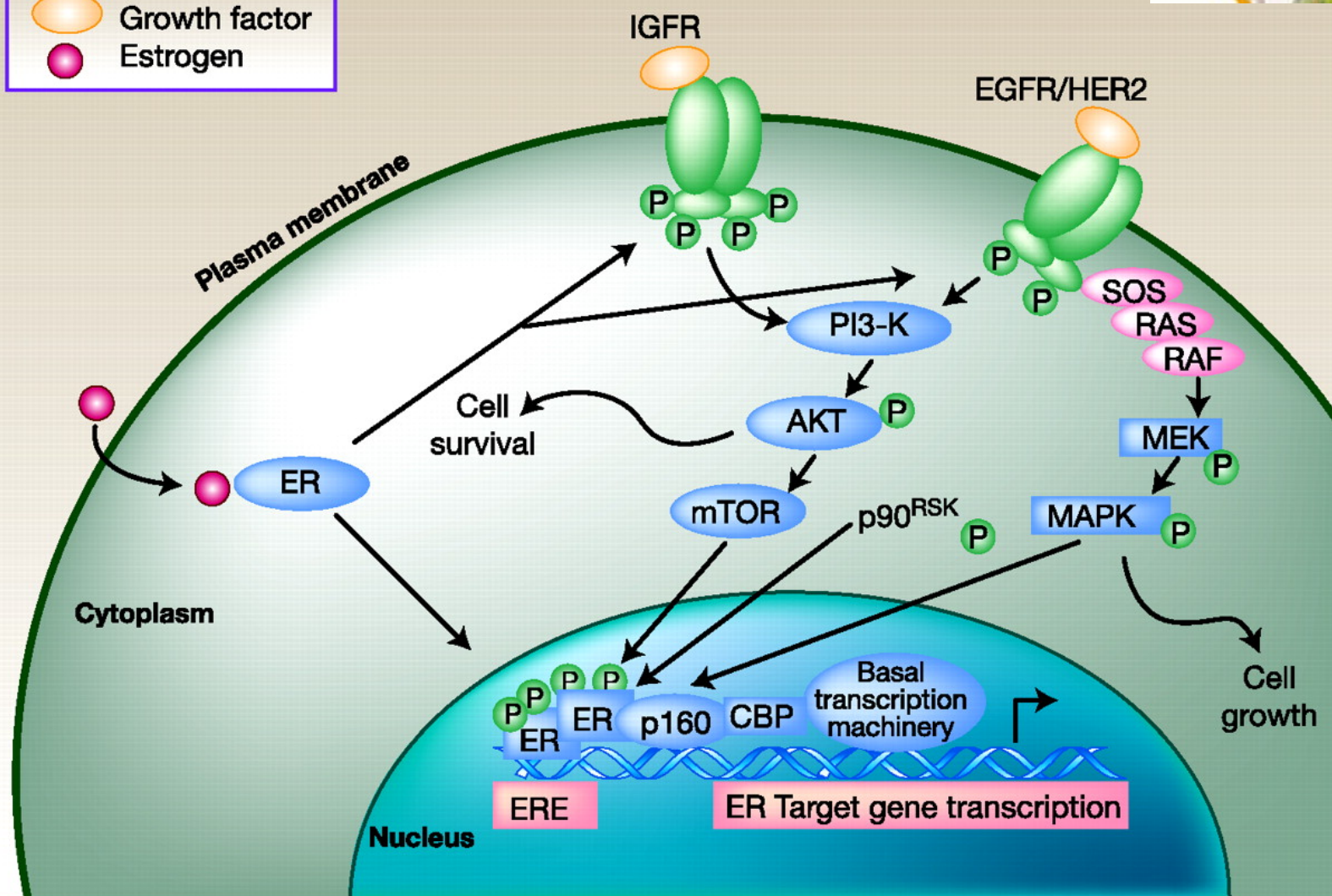
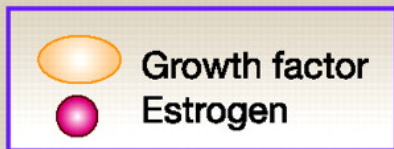
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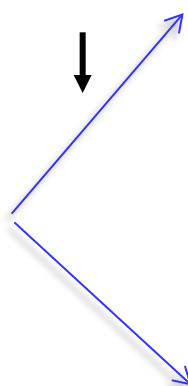
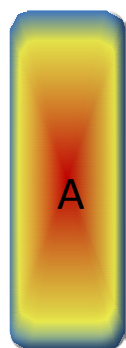




- Estudio fase II Aleatorizado
 - Objetivo primario: CBR a 6 m (RC + RP + EE)

Estratos: Resistencia hormonal 1ª vs 2ª

- RRHH+
- HER2-
- M1
- IA Previos
- (N = 111)



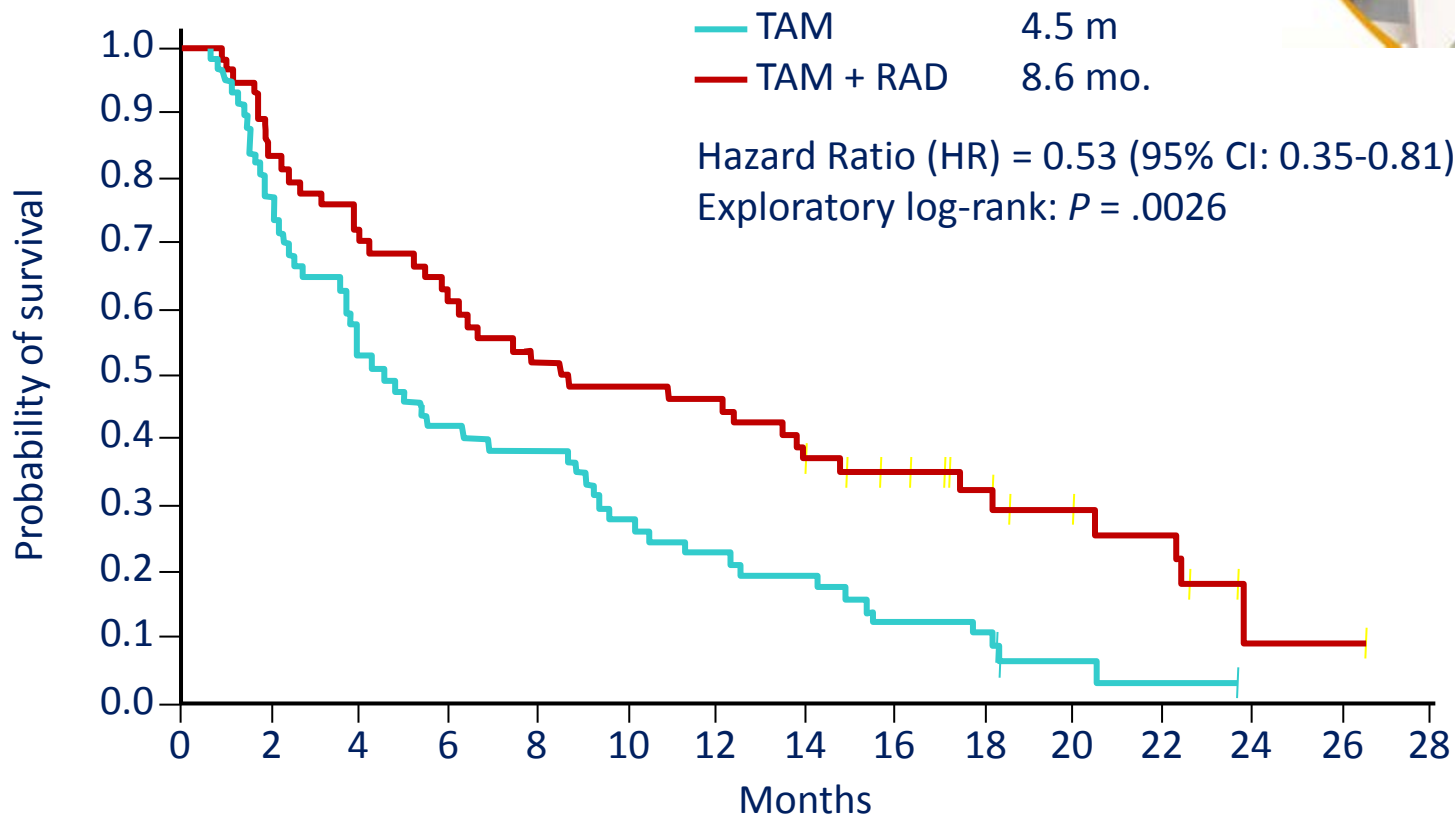
Everolimus 10 mg/ día + Tamoxifeno 20 mg/día
(n = 54)

Tamoxifeno 20 mg/día
(n = 57)

*Primary resistance: relapse during adjuvant AI therapy or progression during first 6 mos of initiating AI for metastatic disease. Secondary resistance: late relapse (at or after 6 mos) or previous response to AI therapy for metastatic breast cancer and subsequent progression.



TAMRAD: SLP

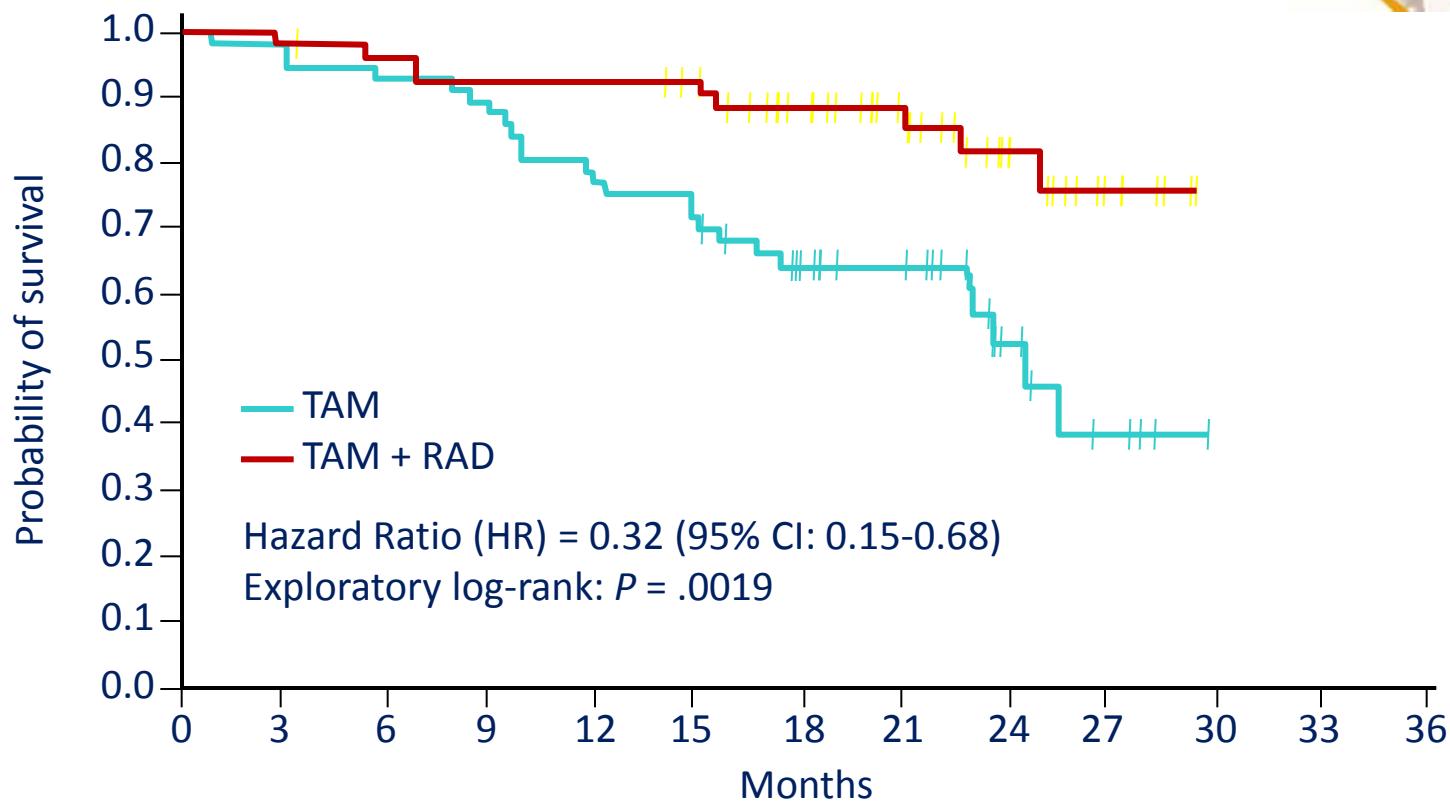


Patients at risk:

TAM + RAD: n =	54	45	39	34	28	26	25	19	16	12	9	7	1	1	0
TAM: n =	57	44	30	24	22	16	13	11	7	6	2	1	0	0	0



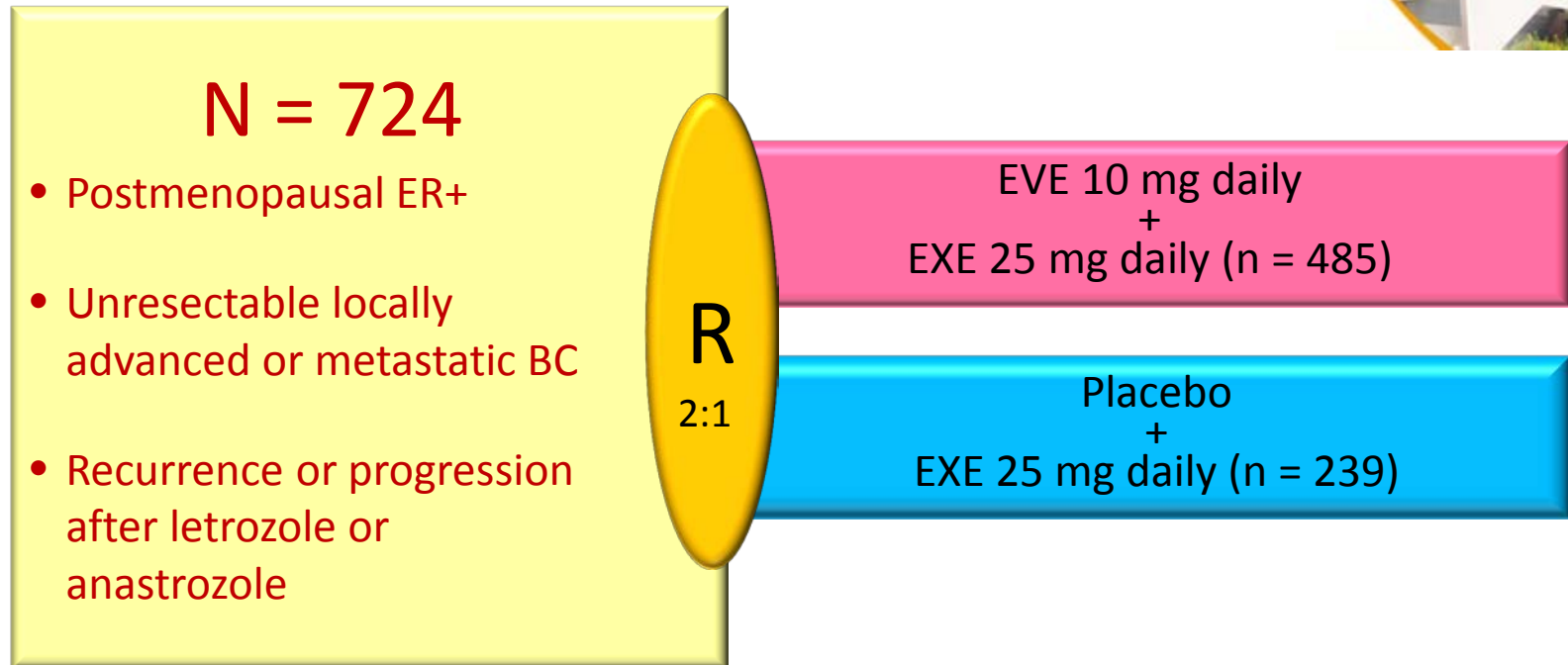
TAMRAD: SG



Patients at risk:

TAM + RAD: n =	54	53	51	49	49	45	38	26	14	6	0
TAM: n =	57	55	53	50	44	38	30	22	9	4	0

BOLERO-2 (Ph III): Everolimus in Advanced BC

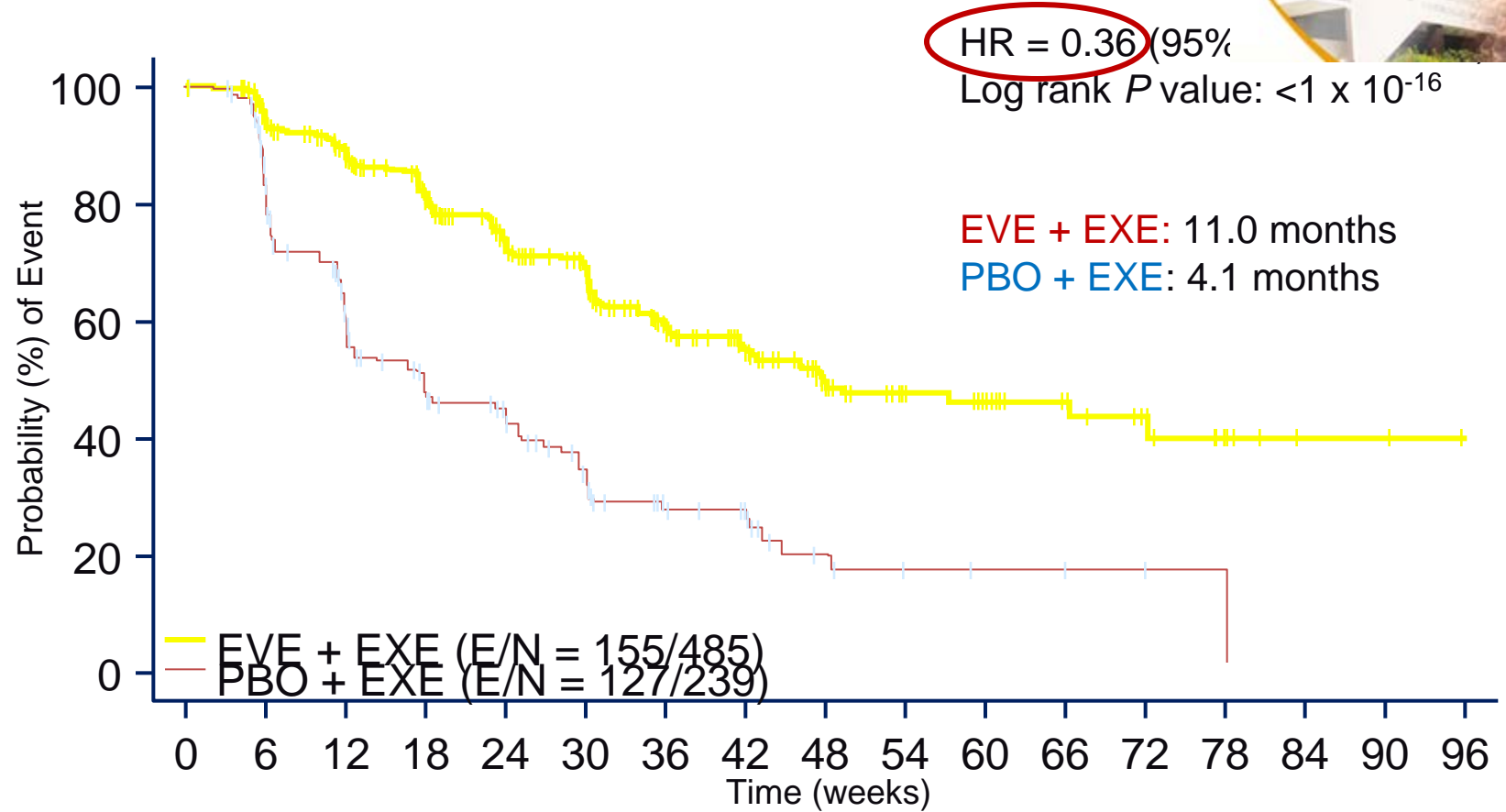


Stratification: Sensitivity to prior hormone therapy and presence of visceral metastases

Endpoints

- **Primary**: PFS (local assessment)
- **Secondary**: OS, ORR, QOL, safety, bone markers, PK

BOLERO-2 (12 mo f/up): PFS Central

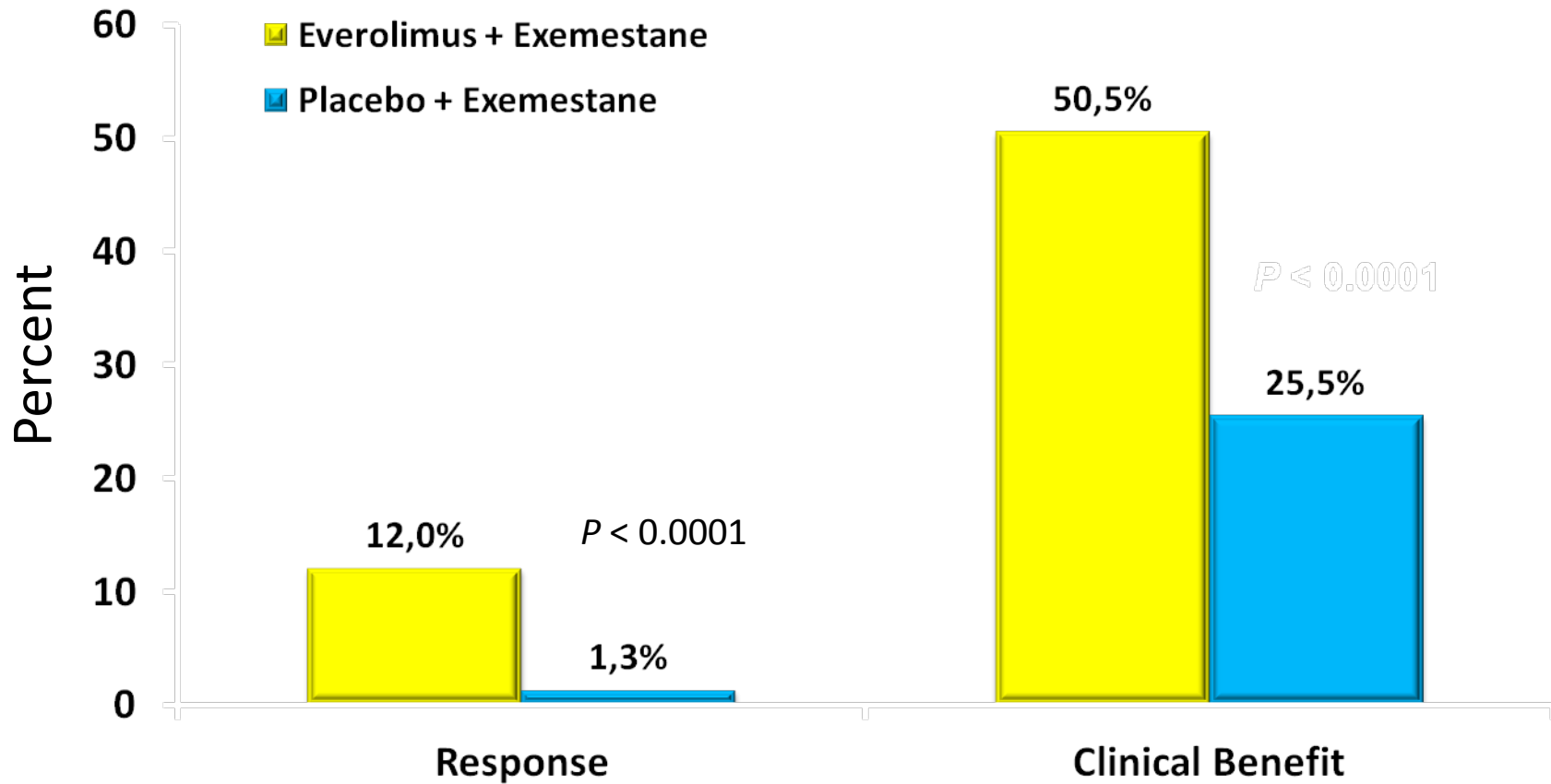


Number of patients still at risk

Everolimus	485	422	351	284	224	176	119	86	57	38	32	22	12	7	2	2	0
Placebo	239	179	112	74	56	36	23	18	8	5	4	4	3	1	0	0	0



BOLERO-2 (12 mo f/up): Response & Clinical Benefit



En conclusión

- ❑ Por primera vez en 15 años, disponemos de una alternativa más para el tratamiento de los tumores luminales
- ❑ El impacto de everolimus supone una reducción del riesgo de progresar de un 64%, equiparable al impacto de trastuzumab en cáncer de mama HERR2+ o al de Imatinib en el tratamiento del GIST