

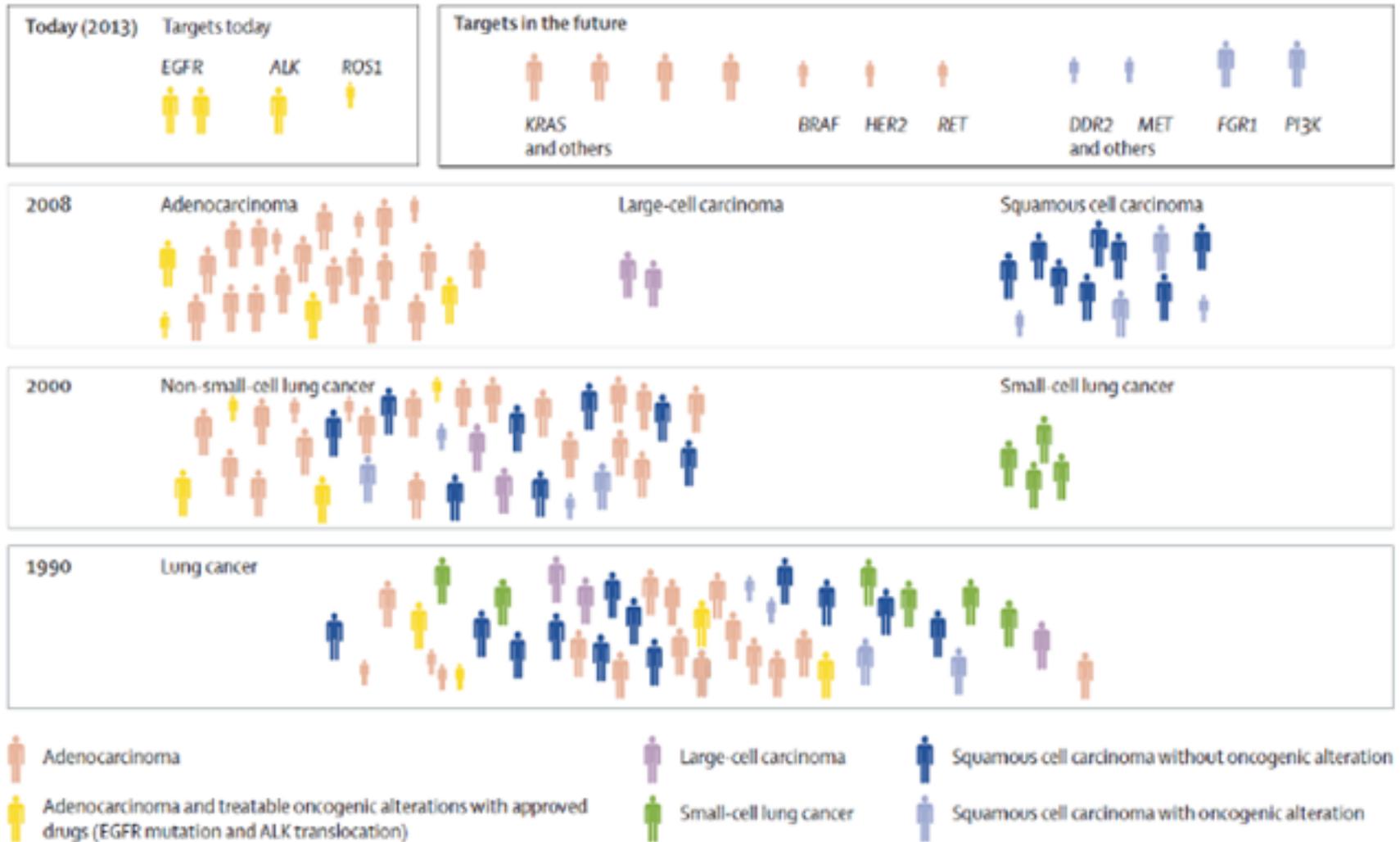


...TERAPIA EN CPNM



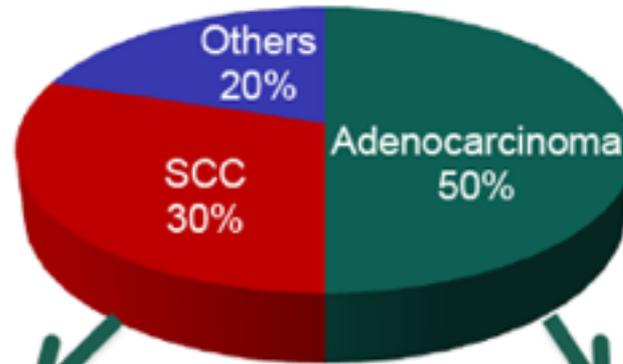
Dra Ana Blasco
Oncología Médica
Hospital General Universitario Valencia



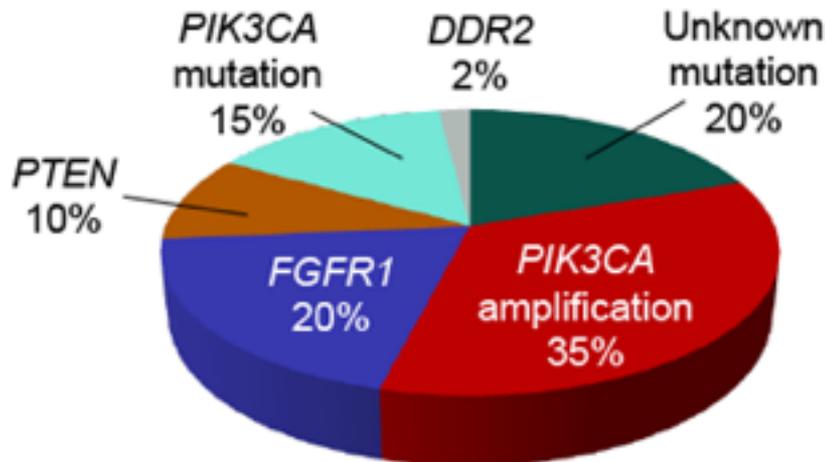


Reck M et al. *Lancet*. 2013;382:709-719.

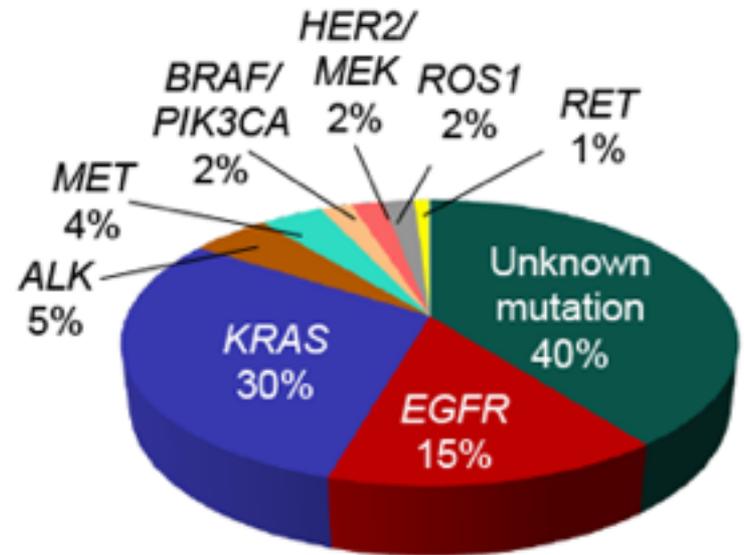
NSCLC by Histology



SCC



Adenocarcinoma



Mutaciones conocidas en CPNM

Biomarkers	Gender, Age	Prevalence, %	Tobacco	Ethnicity	ADC vs SqCC/Distinctive Histologic Characteristics	Clinically Relevant Genetic Abnormality	Examples of Targeting Agent (Available or in Development)
<i>EGFR</i>	Female, younger	10-40	Non-smokers	Asian	ADC/Non-mucinous bronchioalveolar (lepidic)	M (most common in-frame deletions of e19 and point M in e21)	Gefitinib, Erlotinib, Afatinib, Dacomitinib, Neratinib
<i>ALK</i>	Younger	2-6	Non-smokers	Not distinctive	ADC/solid pattern, signet-ring cells	Translocation, inversion (<i>EML4-ALK</i> most common)	Crizotinib, Ceritinib
<i>HER2/ERBB2</i>	Female	1-4	Non-smokers	Asian	ADC	In-frame insertions in e20	Trastuzumab, Pertuzumab, Lapatinib
<i>ROS1</i>	Female, younger	0.5-2	Non-smokers	Und.	ADC	Translocation (<i>ROS1-FIG</i>)	Crizotinib
<i>RET</i>	Younger	1-2	Non-smokers	Not distinct	ADC/Adenosquamous	KIF5B-RET and CCDC6-RET fusion genes	Vandetanib, Cabozantinib
<i>KRAS</i>	Not distinct	15-30	Smokers	Caucasian	ADC/mucinous, particularly with lepidic (bronchioalveolar) pattern	Ms in codon 12 (majority) and 13	Selumetinib (via inhibition of MEK)
<i>BRAF</i>	Not distinct	3 (ADCs)	Smokers	Not distinct	ADC	Ms in V600E (50%), G469A (39%), D594G (11%)	Dabrafenib, Vemurafenib, XL281, Selumetinib

e: exon; M: mutation; Und: undetermined.

Brega E, Brandao G. *Front Oncol.* 2014;4:182.

..... +++ Mutaciones CPNM

Biomarkers	Gender, Age	Prevalence, %	Tobacco	Ethnicity	ADC vs SqCC/Distinctive Histologic Characteristics	Clinically Relevant Genetic Abnormality	Examples of Targeting Agent (Available or in Development)
<i>NRAS</i>	Und.	0.5-1	Smokers	Und.	ADC	Ms in codon Q61 in e3 (80%) and G12 (e2)	Selumetinib, Trametinib
<i>FGFR1</i>	Not distinct	22 (of SqCC)	Smokers	Not distinct	SqCC	Amplification	PD173074
<i>PTEN</i>	Not distinct	4-8	Smokers	Not distinct	SqCC	Various Ms in e5-8	GSK2636771
<i>DDR2</i>	Und.	2.5-3.8	Und.	Und.	SqCC	Missense Ms	Imatinib, Dasatinib
<i>MAP2K1/MEK1</i>	Und.	1	Unclear	Und.	ADC	Ms in Q56P, K57N, D67M	AZD6244, Pimasertib, Refametinib, others
<i>PIK3CA</i>	Not distinct	2-4	Mixed reports	Not distinct	ADC and SqCC	Ms in E545K, H1047R (most common), also E542K, H1047L	Everolimus, Temsirolimus, GDC-0941, XL-147, others
<i>AKT1</i>	Und.	1	Und.	Und.	ADC and SqCC	M in E17K	MK-2206
<i>MET</i>	Not distinct	1-5	Not distinct	Und.	ADC	Amplification, protein overexpression/M	Vandetanib, Cabozantinib

Brega E, Brandao G. *Front Oncol.* 2014;4:182.

“Literatura traslacional”

Mutación	EGFR	ALK	HER2	BRAF	KRAS	PI3K	AKT1	MAP2k1	MET
Adenocarcinoma	15-15%								
Escamoso	2-5%								

Blasco A, et al.

From Pao W, et al.

2016

Evolución del tratamiento de Adenocarcinoma / CELS GRANDES

ADENOCARCINOMA / CELS GRANDES

ESCAMOSO

Mutaciones conocidas

Mutaciones desconocidas

Sin mutaciones

1999

EGFR

ALK

OTRAS DIANAS

ROS1
BRAF
RET

Pemetrexed-Carbo +/- Bevacizumab

Gefitinib
Erlotinib
Afatinib

Crizotinib

Ceritinib

Platino + Inhibidor de topoisomerasa
Platino + Taxano

Pemetrexed mantenimiento

Platino/Gem Carbo/
Paclitaxel

Docetaxel +/- Nectinumab

Nivolumab

T790M+

T790M-

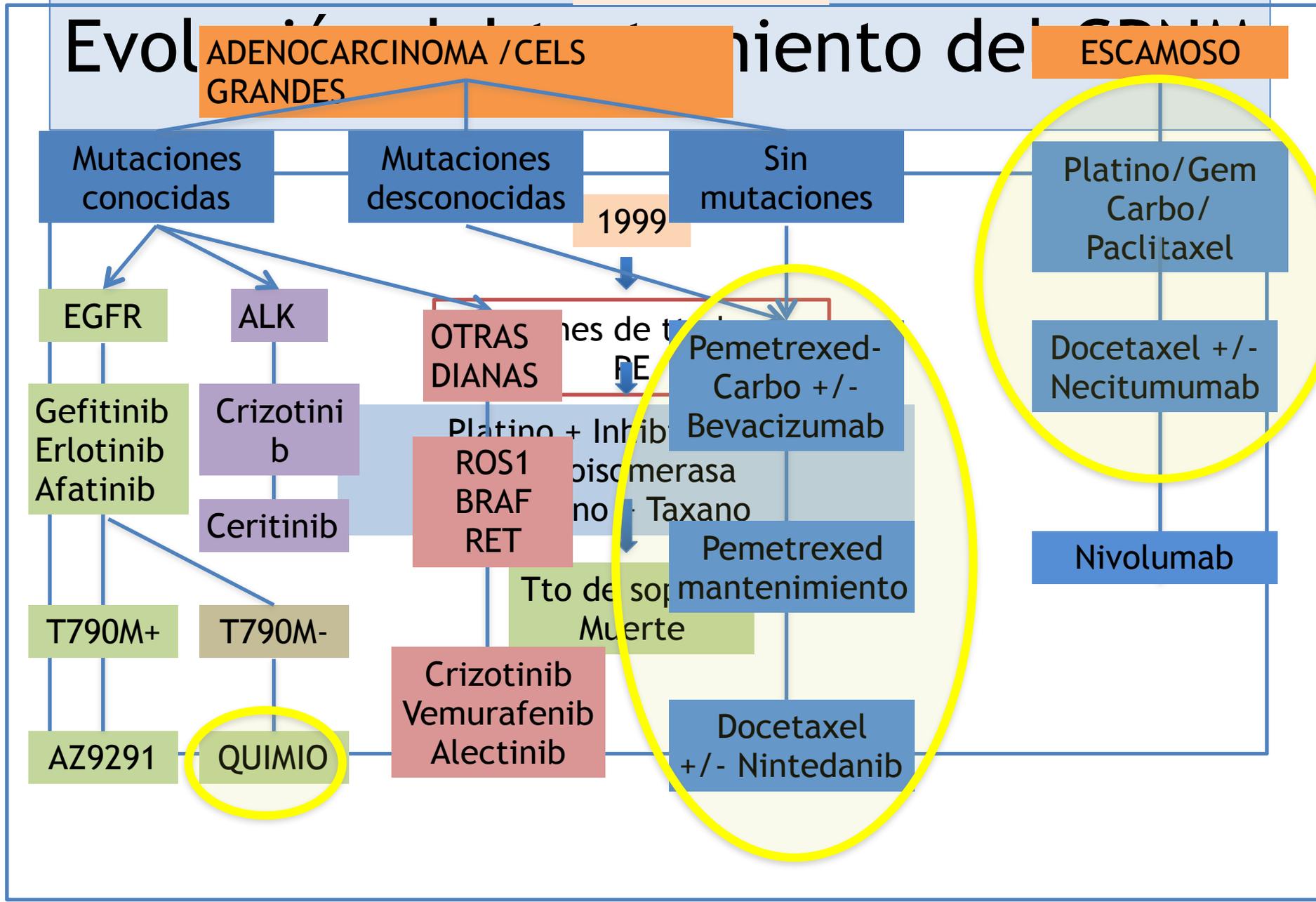
Tto de soporte
Muerte

Crizotinib
Vemurafenib
Alectinib

Docetaxel +/- Nintedanib

AZ9291

QUIMIO



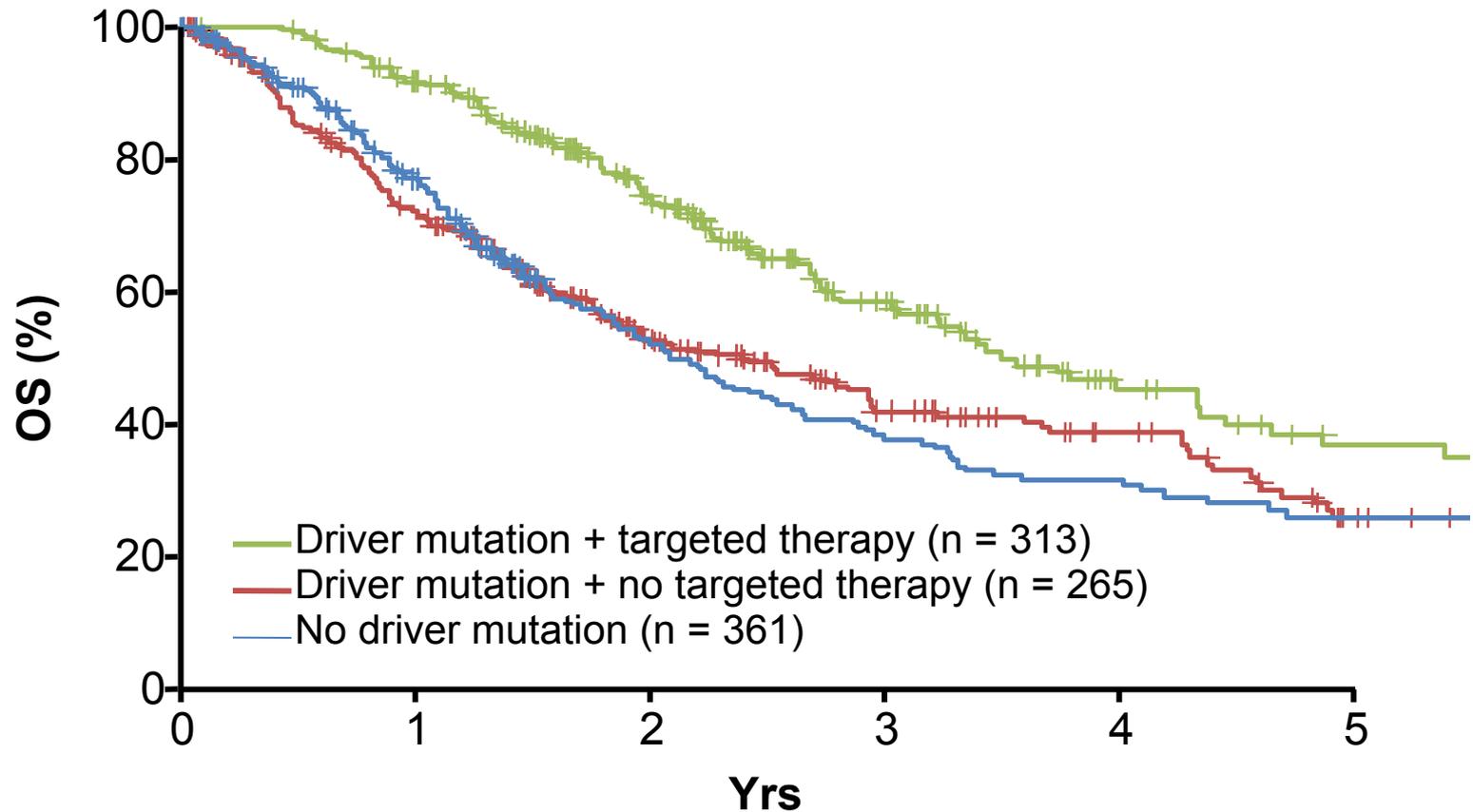
barranc

1h 25min

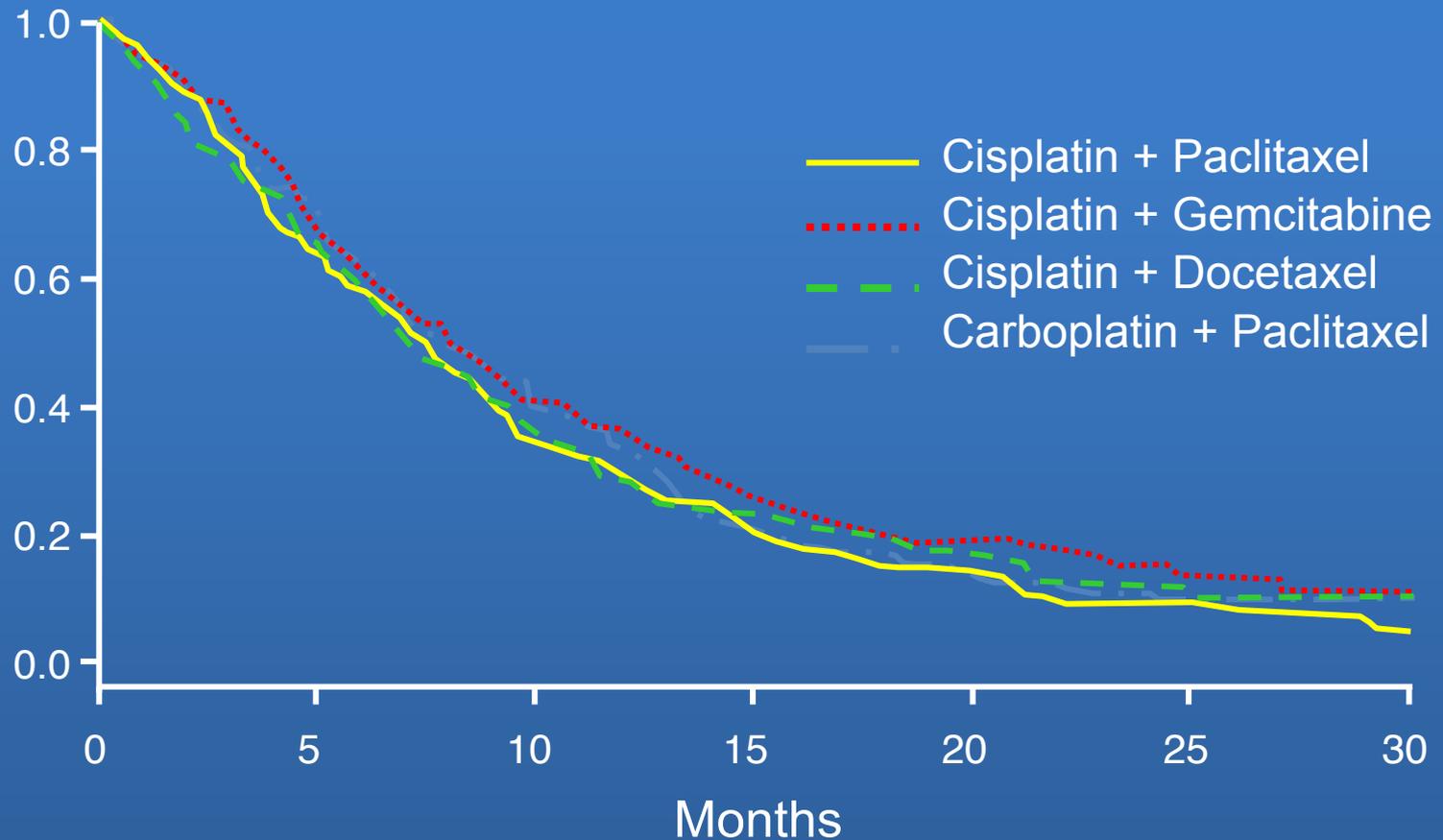
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¿Esto es relevante?

Lung Cancer Mutation Consortium: OS/ttos



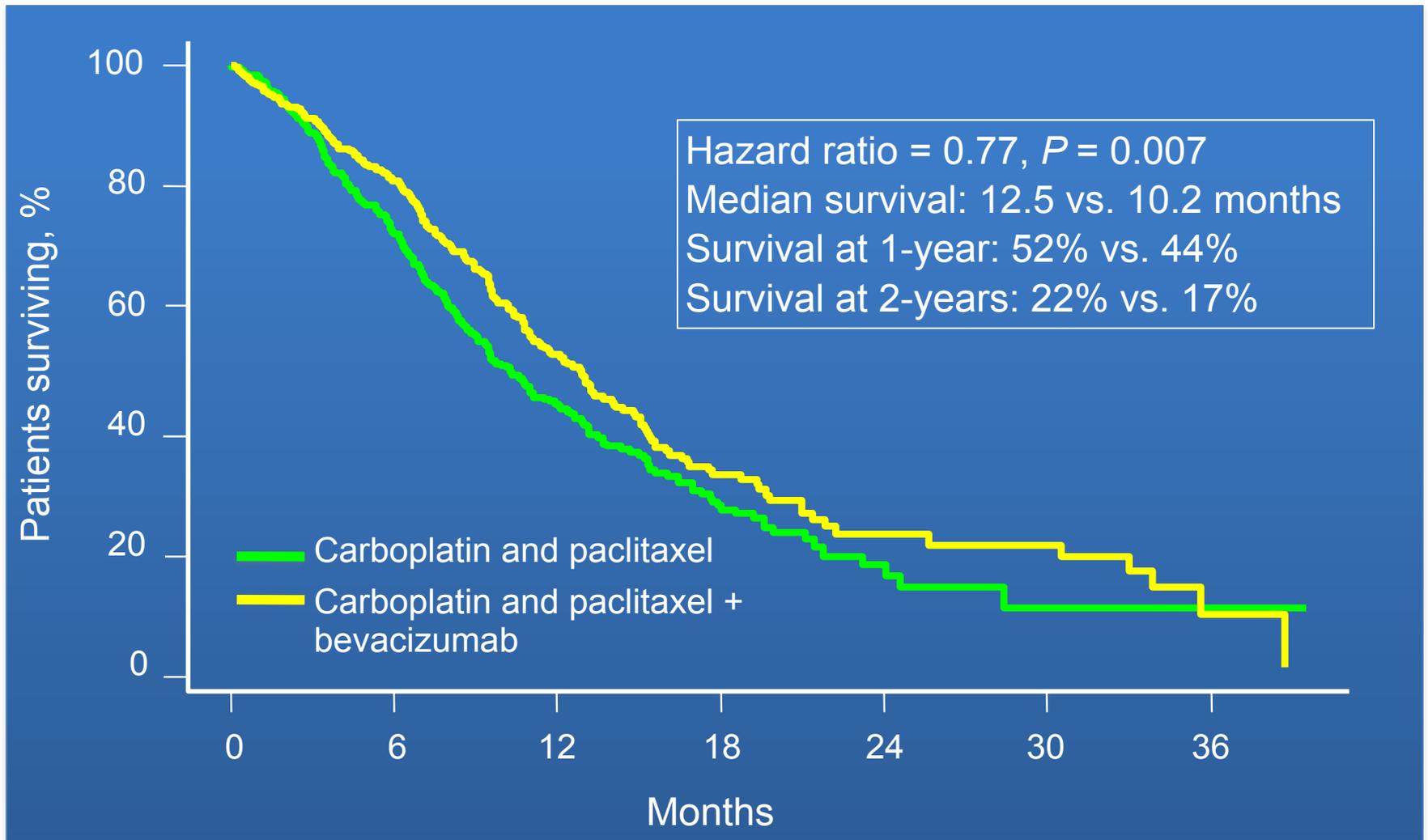
ECOG 1594: SG en función de esquema



Esquemas “clásicos” sin selección

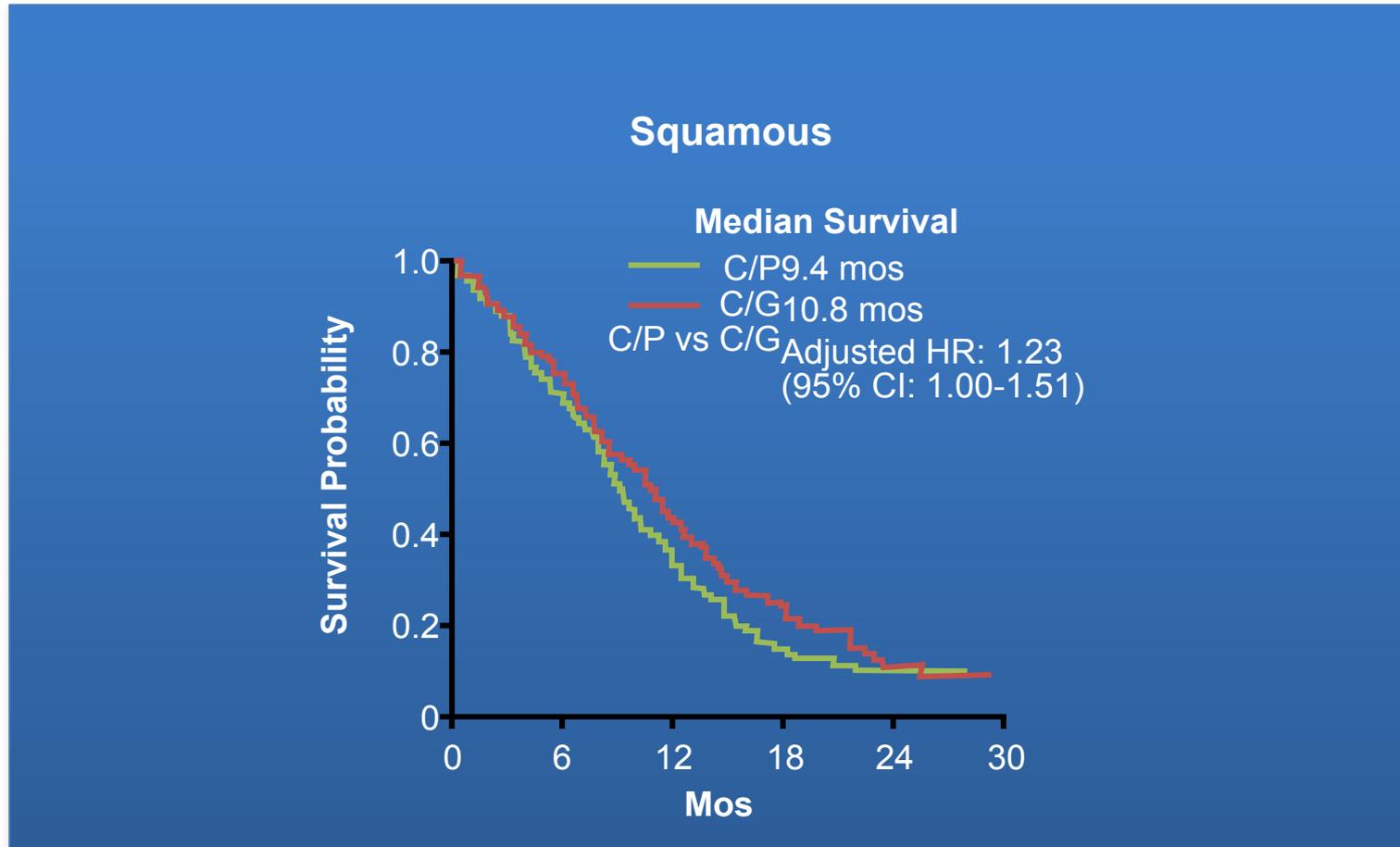
Estudio (mos)	N	ORR(%)	MST
SWOG 9509			
Carbo-Pac	208	25	8.0
Cis-Vino	202	28	8.0
EGOG 1594			
Cis-Pac	292	21.3	8.1
Cis-Gem	288	21	8.1
Cis-Doce	293	17.3	7.4
Italian Study			
Carbo-Pac	290	15.3	8.3
Cis-Gem	205	30	9.8
Carbo-Pac	201	32	9.9
Cis-Vino	201	30	9.8
EORTC 08975			
Cis-Pac	159	31	8.1
Cis-Gem	160	36	8.8
Gem-Pac	161	27	6.9
TAX 326			
Doce-Cis	408	NA	10.9
Doce-Carbo	406	NA	9.1
Cis-Vino	404	NA	10.0

Pequeñas victorias hacen camino..

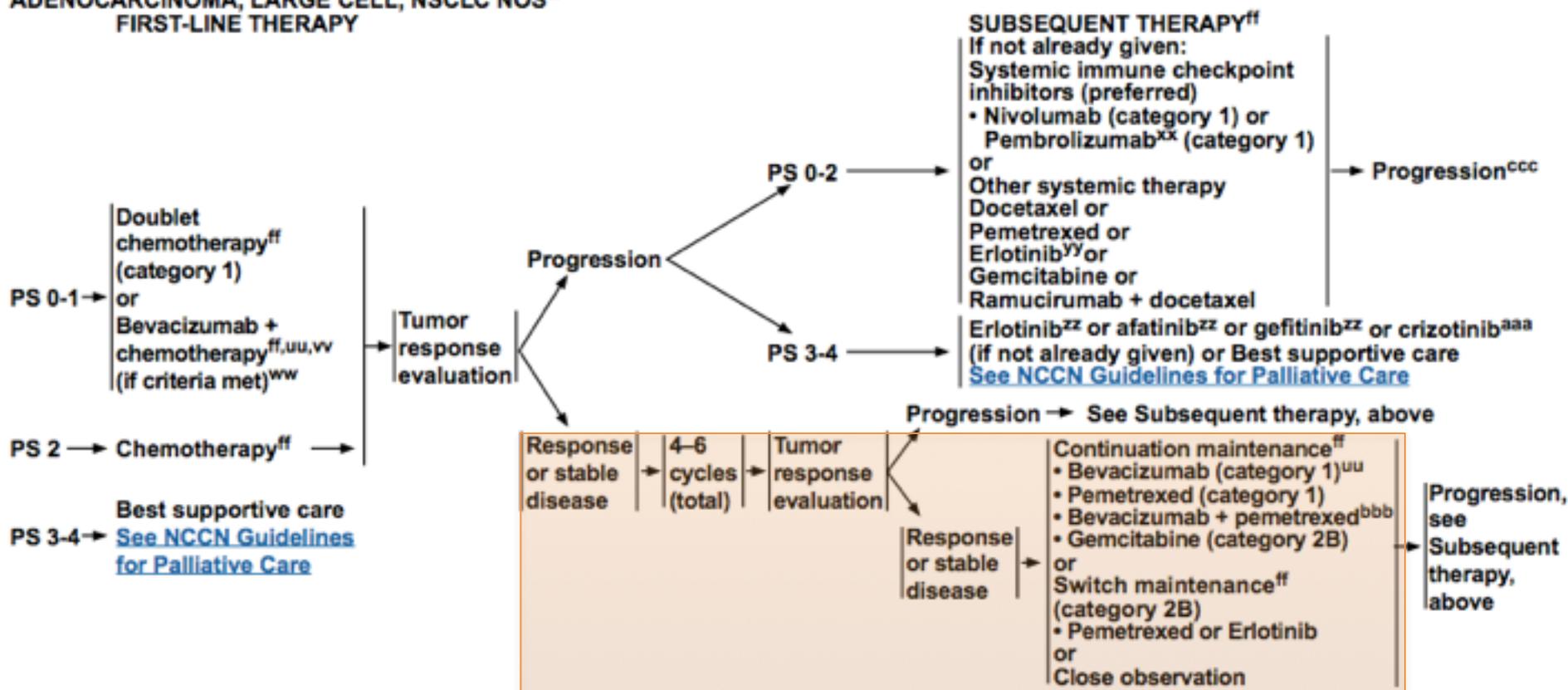


Se hace camino al andar..

Superioridad del doblete platino-pemetrexed en tumores no escamosos



ADENOCARCINOMA, LARGE CELL, NSCLC NOS^{tt}
FIRST-LINE THERAPY



^{ff} See [Systemic Therapy for Advanced or Metastatic Disease \(NSCLC-F\)](#).

^{tt} Consider additional mutational testing if only EGFR and ALK were performed. See [Emerging Targeted Agents for Patients With Genetic Alterations \(NSCLC-H\)](#).

^{uu} Bevacizumab should be given until progression.

^{vv} Any regimen with a high risk of thrombocytopenia and the potential risk of bleeding should be used with caution in combination with bevacizumab.

^{ww} Criteria for treatment with bevacizumab: non-squamous NSCLC, and no recent history of hemoptysis. Bevacizumab should not be given as a single agent, unless as maintenance if initially used with chemotherapy.

^{xx} Pembrolizumab is approved for patients with NSCLC tumors with PD-L1 expression, as determined by an FDA-approved test for PD-L1 with use of pembrolizumab.

^{yy} Recommend proteomic testing for patients with NSCLC and wild-type EGFR or with unknown EGFR status. A patient with a "poor" classification should not be offered erlotinib in the second-line setting. Gregorc V, Novello S, Lazzari C, et al. *Lancet Oncol* 2014; 15:713-21.

^{zz} May be considered for PS 3 and 4 patients with sensitizing EGFR mutations.

^{aaa} May be considered for PS 3 and 4 patients if positive for the ALK rearrangement.

^{bbb} If bevacizumab was used with a first-line pemetrexed/platinum chemotherapy regimen.

^{ccc} If not already given, options for PS 0-2 include erlotinib, nivolumab, pembrolizumab, docetaxel (category 2B), pemetrexed (category 2B), gemcitabine (category 2B), or ramucirumab + docetaxel (category 2B); options for PS 3-4 include erlotinib or best supportive care. Options for further progression are best supportive care or clinical trial.

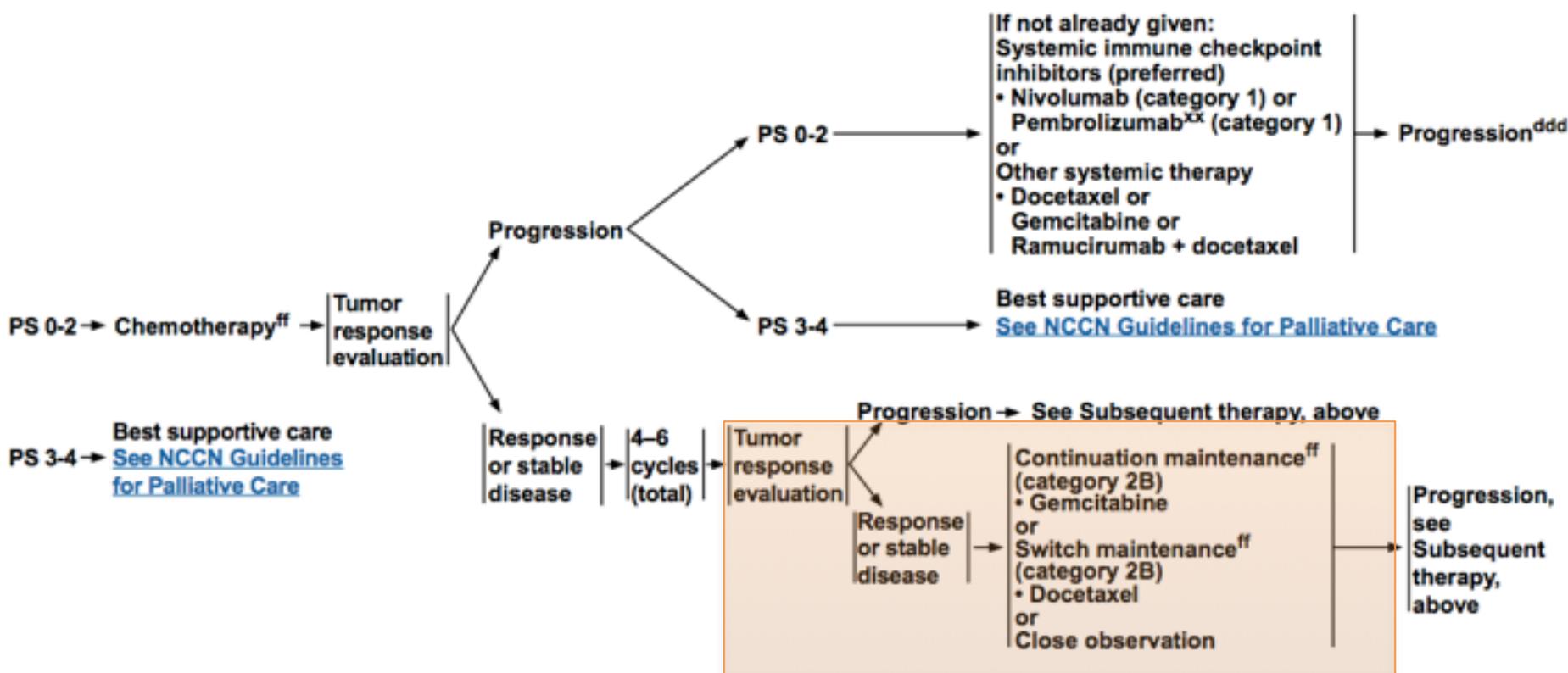
Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any cancer patient is in a clinical trial. Participation in clinical trials is especially encouraged.

SQUAMOUS CELL CARCINOMA^{tt}

FIRST-LINE THERAPY

SUBSEQUENT THERAPY^{ff}



^{tt}See [Systemic Therapy for Advanced or Metastatic Disease \(NSCL-F\)](#).

^{tt}Consider additional mutational testing if only EGFR and ALK were performed. See [Emerging Targeted Agents for Patients With Genetic Alterations \(NSCL-H\)](#).

^{xx}Pembrolizumab is approved for patients with NSCLC tumors with PD-L1 expression, as determined by an FDA-approved test for PD-L1 with use of pembrolizumab.

^{ddd}If not already given, options for PS 0-2 include nivolumab, pembrolizumab, docetaxel (category 2B), gemcitabine (category 2B), or ramucirumab + docetaxel (category 2B); options for PS 3-4 include best supportive care. Options for further progression are best supportive care or clinical trial.

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any cancer patient is in a clinical trial. Participation in clinical trials is especially encouraged.

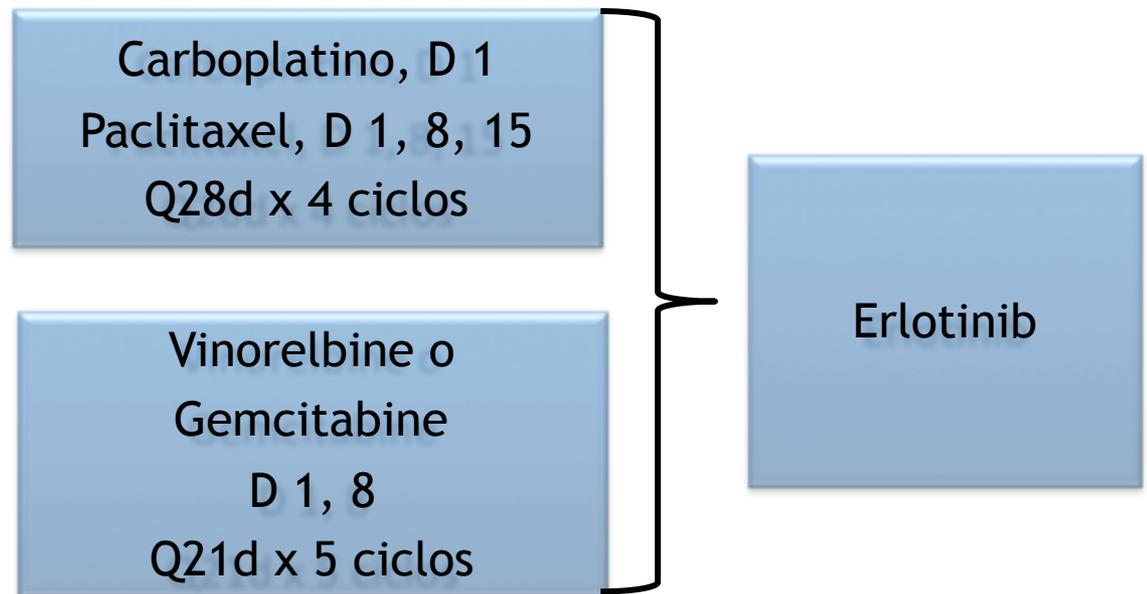
...Además hemos aprendido:



Dobletes en ancianos

IFCT-0501: Dobletes de platino en ancianos

Pacientes con
E III/IV NSCLC,
70-89 años, PS 0-2
(N = 451)



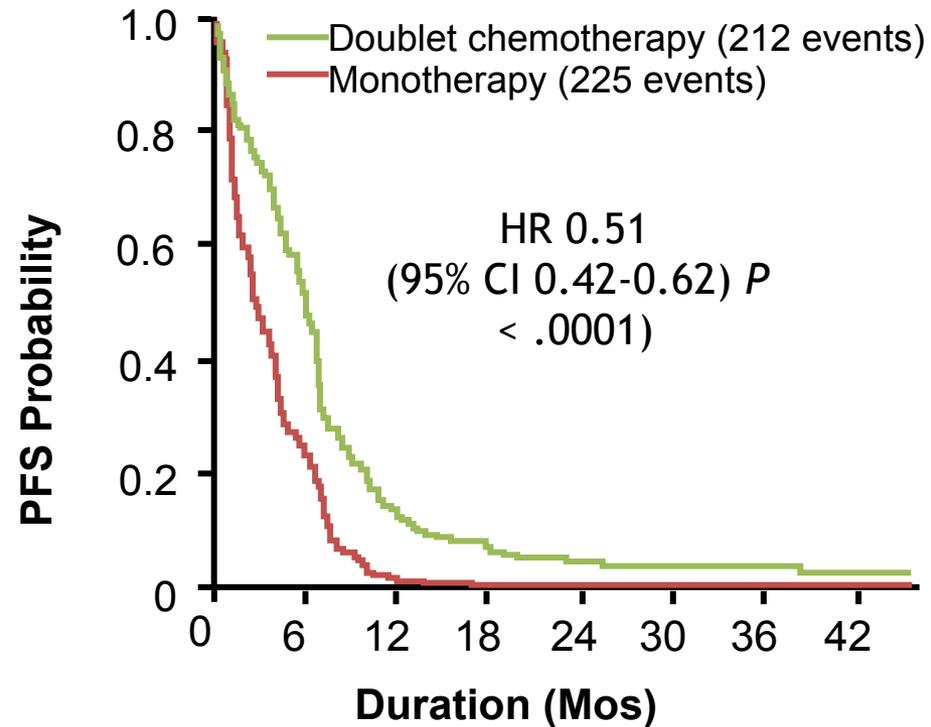
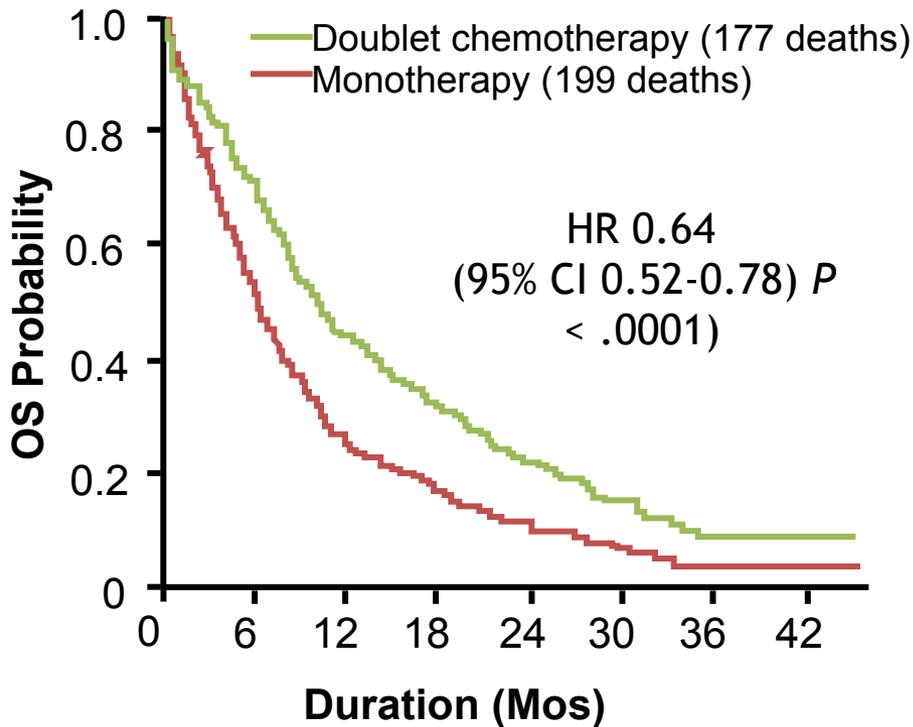
- Objetivo primario SG

Dobletes en ancianos: OS y PFS

	P	CP
Median OS, mo	6.1	8.3
PFS at 6 mo, %	50	65
PFS at 12 mo, %	22	43

OS

PFS



Dobletes y PS 2

*Estratificados por estadio (IIIb vs IV),
edad (\geq vs $<$ 70), pérdida de peso (\geq vs $<$*

5%)

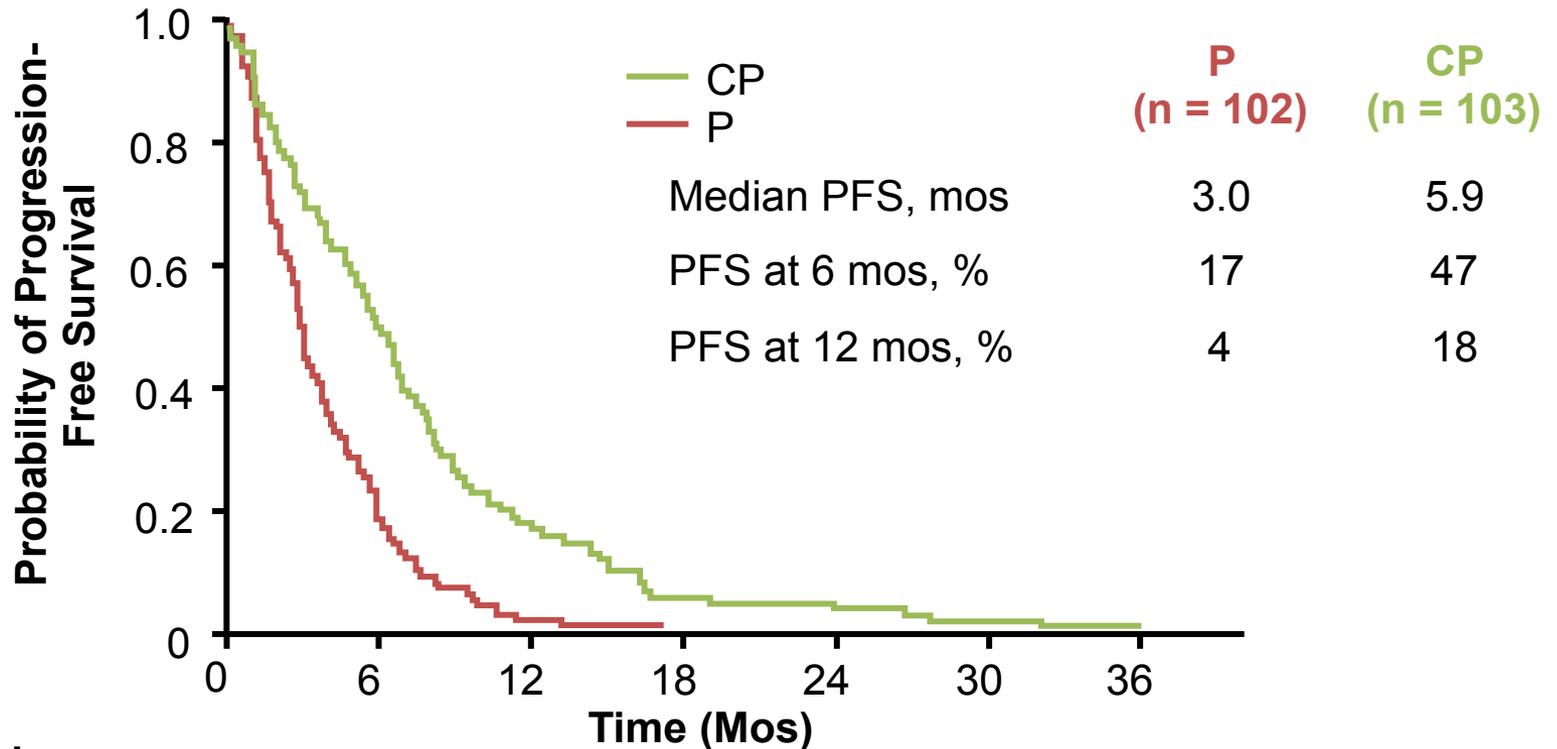
Pacientes con
estadio IIIb/IV
NSCLC, PS 2,
no QT previa
(N = 205)

Pemetrexed
500 mg/m² q3w x 4 ciclos

Pemetrexed 500 mg/m² q3w
Carboplatin AUC 5 q3w
x 4 ciclos

- Objetivo primario: OS
- Objetivos secundarios: PFS, ORR, seguridad

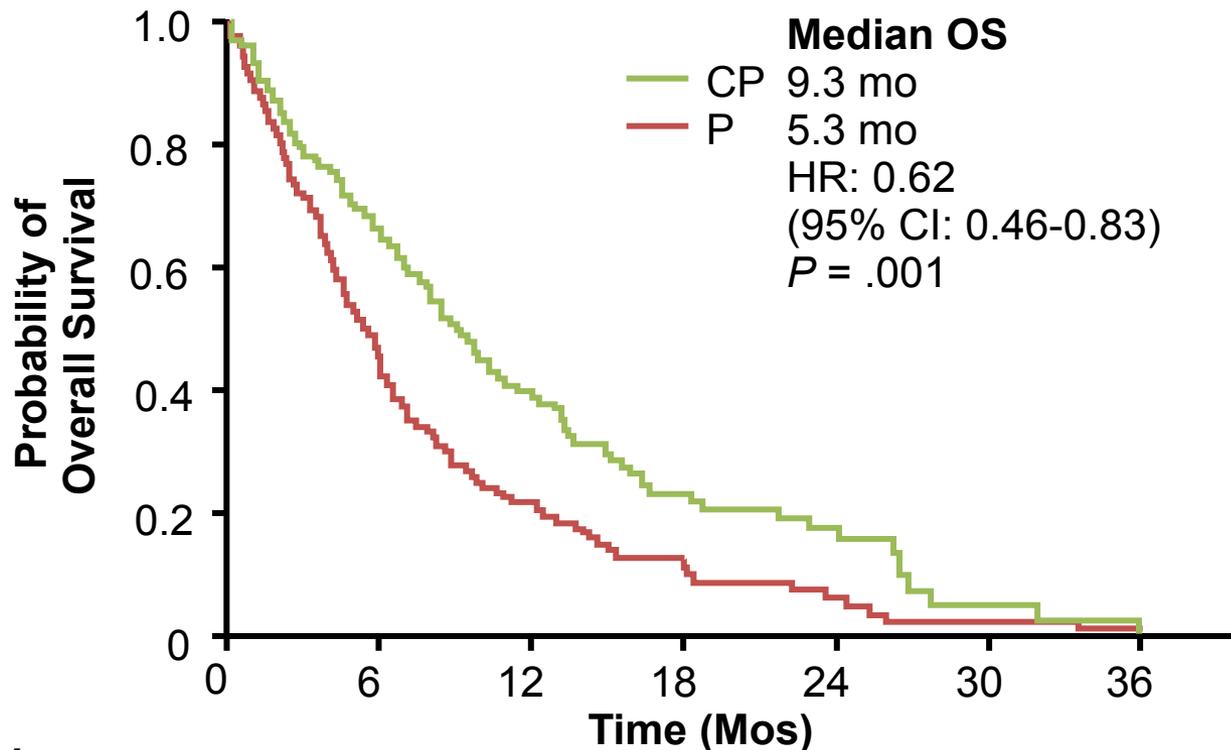
PS 2 y PFS



At Risk, n

CP arm	103	49	17	6	4	2	0
P arm	98	18	2	0	0	0	0

PS2 y OS

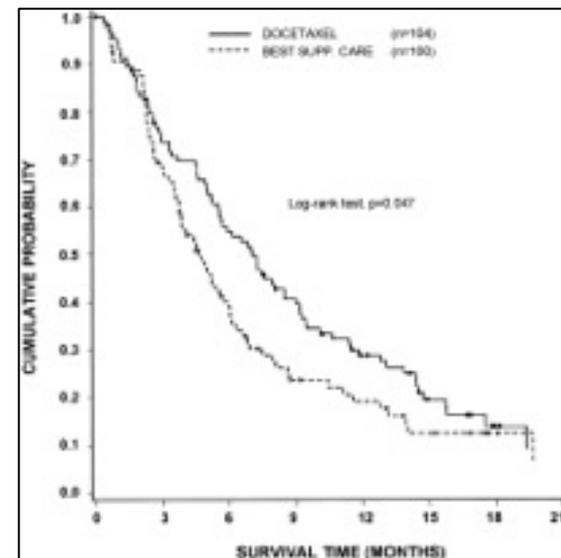


At Risk, n

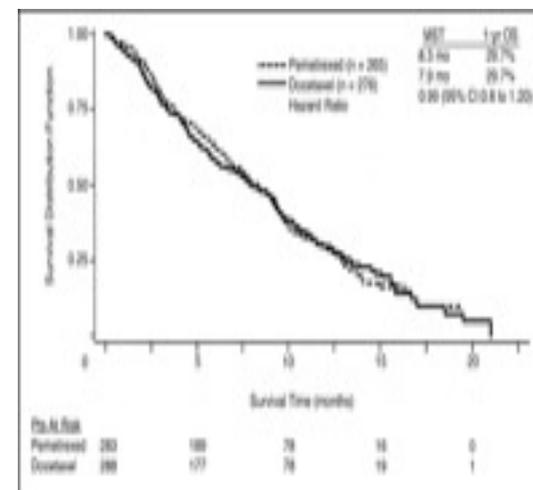
CP arm	103	68	39	20	10	2	0
P arm	98	45	20	10	5	2	0

Segunda línea

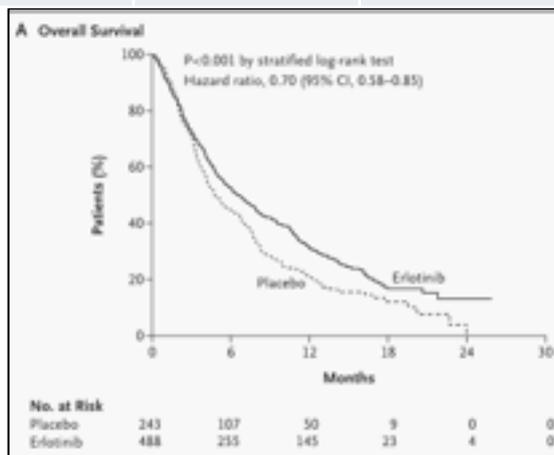
Study	Treatment Arms	Median OS (mos)	1-Year Survival
TAX 317 ^[a]	Docetaxel (N = 103)	7.0	37.0%
	Best supportive care (N = 100)	4.6	12.0%
Hanna et al. 2004 ^[b]	Pemetrexed (N = 283)	8.3	29.7%
	Docetaxel (N = 288)	7.9	29.7%
INTEREST ^[c]	Gefitinib (N = 723)	7.6	32.0%
	Docetaxel (N = 710)	8.0	34.0%
TITAN ^[d]	Erlotinib (N = 203)	5.3	26.0%
	Chemotherapy (N = 221: 116 docetaxel, 105 pemetrexed)	5.5	24.0%



Shepherd F A et al. JCO 2000



Hanna N et al. JCO 2004

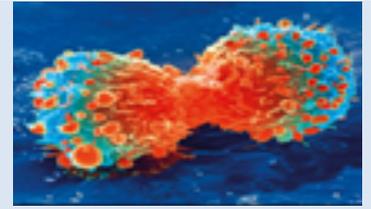


Shepherd F A et al. Nejm 2005

- a. Shepherd FA, et al. *J Clin Oncol.* 2000;18:2095-2103.
- b. Hanna N, et al. *J Clin Oncol.* 2004;22:1589-1597.
- c. Kim ES, et al. *Lancet.* 2008;372:1809-1818.
- d. Ciuleanu T, et al. *Lancet Oncol.* 2012;13:300-308.

¿Qué hay de nuevo?

Nab-Paclitaxel en CPNM



- ABRAXANE... Sistema a base de nanopartículas de albumina diseñado para vehicular paclitaxel
- Permite administrar mayores dosis de Paclitaxel evitando los efectos secundarios de los excipientes

Stage IIIb/IV NSCLC
No prior therapy for metastatic disease
ECOG PS 0-1
N = 1052

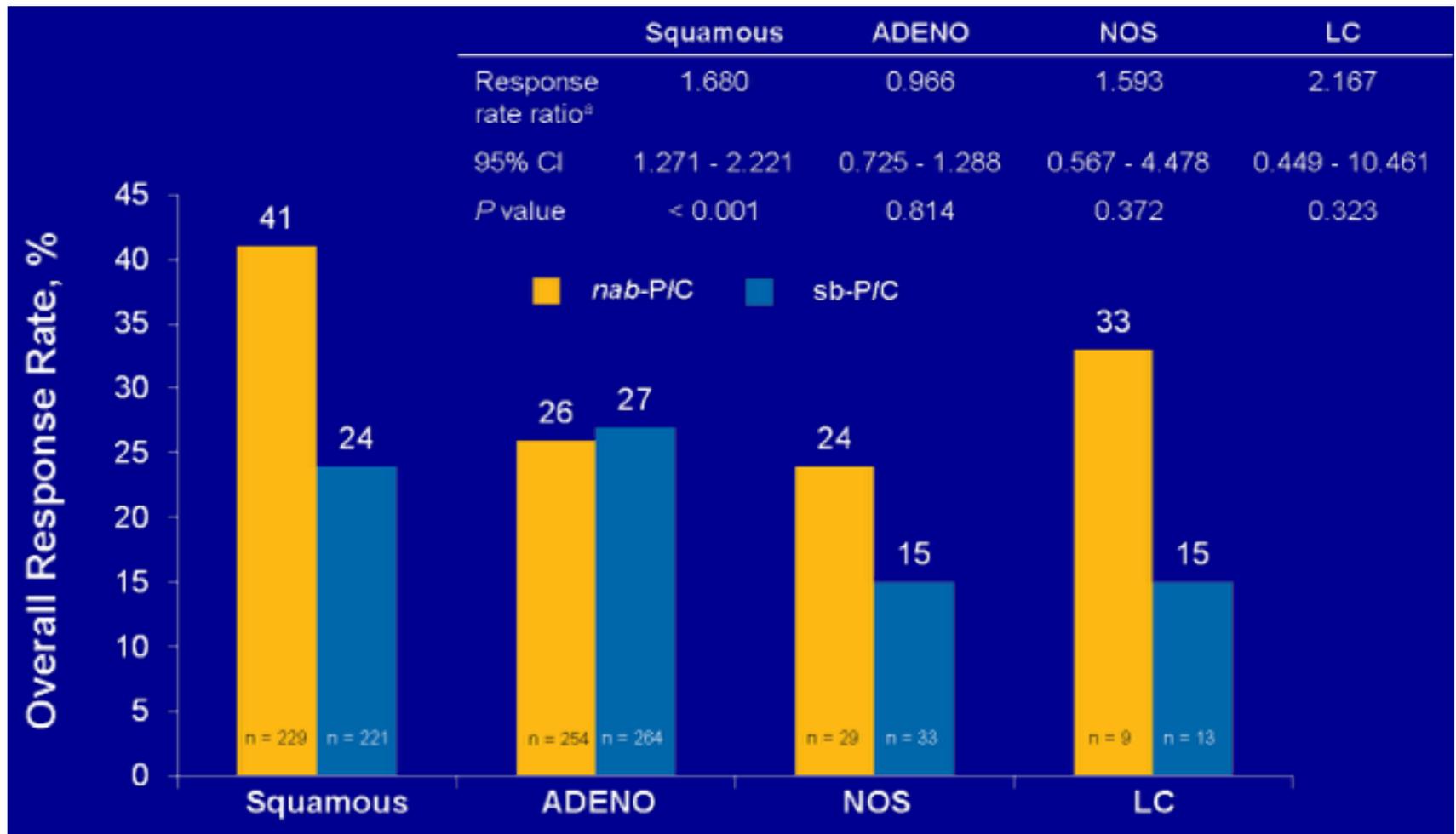
***nab*-Paclitaxel 100 mg/m² d1, 8, 15**
(30-min infusion)
Carboplatin AUC 6 d1
21-day cycles
No premedication

sb-Paclitaxel 200 mg/m² d1
(3-h infusion)
Carboplatin AUC 6 d1
21-day cycles
with premedication of
dexamethasone + antihistamines

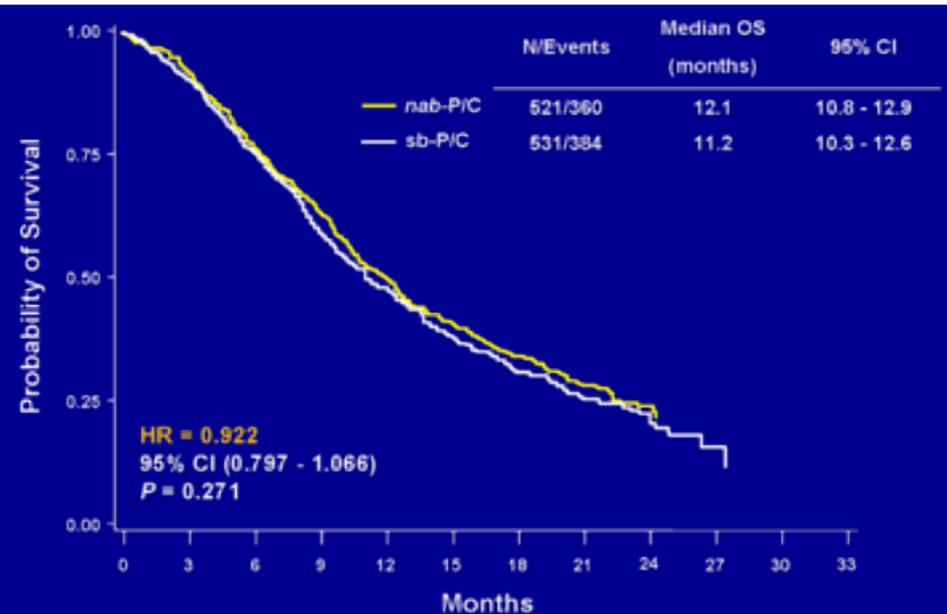
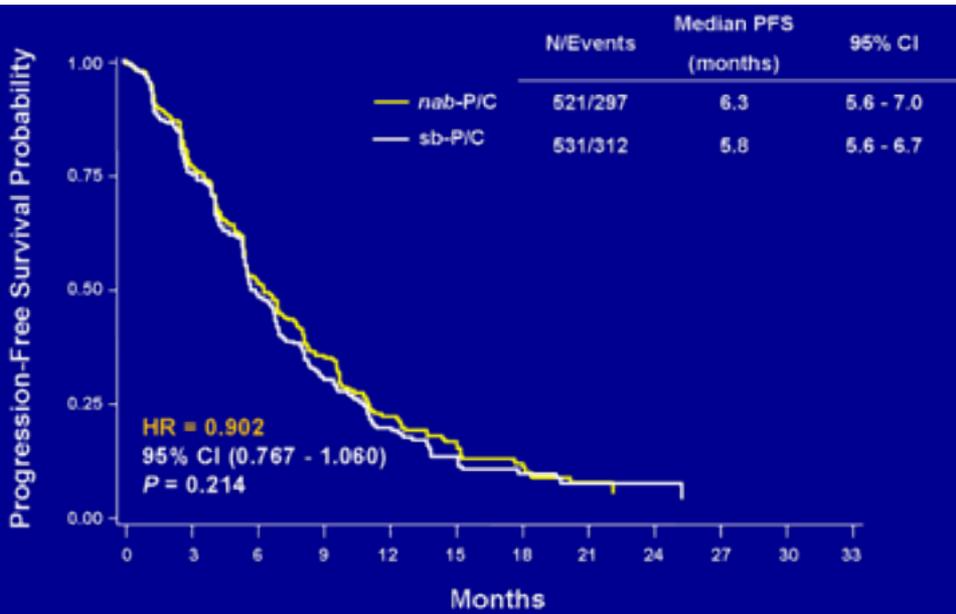
Stratification factors: Stage (IIIb vs IV); age; (< 70 vs ≥ 70); sex; histology (adenocarcinoma vs squamous cell vs other); geographic region

- **Objective:** To compare the efficacy and safety of *nab*-paclitaxel plus carboplatin vs sb-paclitaxel plus carboplatin in advanced NSCLC
- **Primary endpoint:** ORR by independent radiological review (CR + PR)
- **Secondary endpoints:** PFS, OS, DCR (CR + PR + SD), and safety

Nab-Paclitaxel: RR e histología



Nab-Paclitaxel: PFS y OS



Conclusiones Nab-Paclitaxel

- *Nab-P/C* en primera línea en pacientes con CPNM es eficaz :
 - 68% mejora en la tasa de respuesta, 1 mes de beneficio en OS
 - ORR 41% en escamosos
- Tiene un perfil tóxico manejable
- Menor incidencia y gravedad de neuropatía
- Estudios demuestran buen perfil toxico en ancianos y PS2

Nedaplatin

- Compuesto platino de segunda generación
- Menos náuseas/vómitos y nefrotoxicidad
- Toxicidad limitante de dosis neutropenia y trombopenia
- Estudio fase II eficaz en escamosos (mPFS 7.4m, MST 16.1m , RR 62%)

WJOG5208L: Study design

Chemo-naive
PS 0-1
Age 20-74
Stage IIIb/IV or
recurrent
SqLC
N= 350

1:1

Docetaxel 60 mg/m² d1
Nedaplatin 100 mg/m² d1
q3w, 4-6 cycles
N= 175

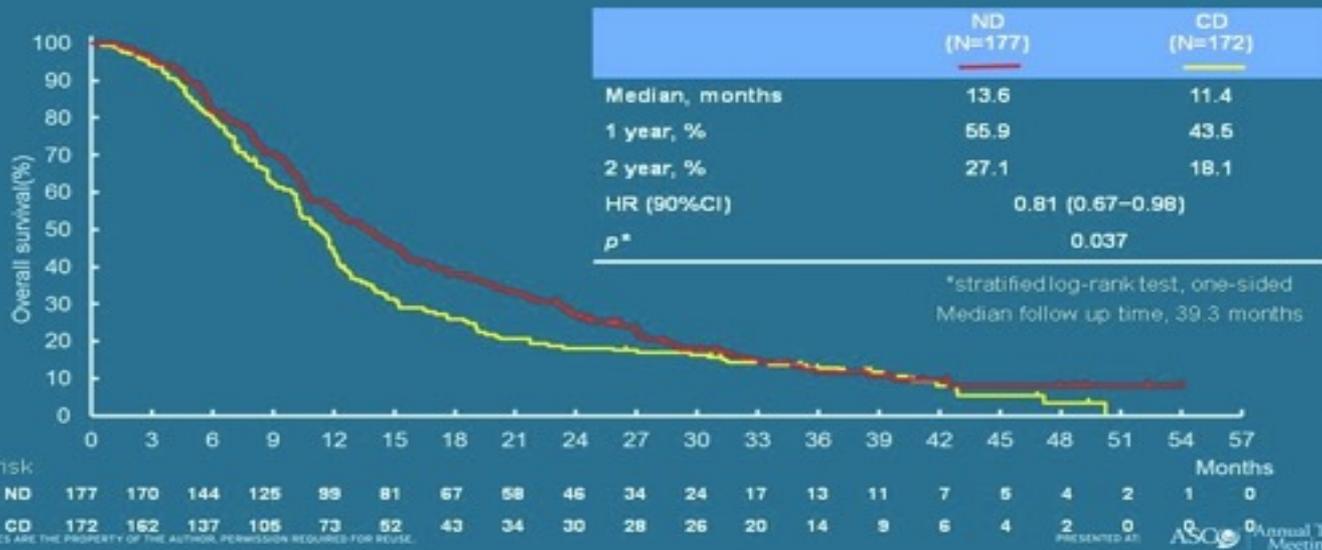
Docetaxel 60 mg/m² d1
Cisplatin 80 mg/m² d1
q3w, 4-6 cycles
N= 175

Stratification factors:
Stage (IIIb, IV or recurrent)
Gender
Institutions

OBJETIVO PRIMARIO: SG

OBJETIVOS SECUNDARIOS:
PFS, RR, AES

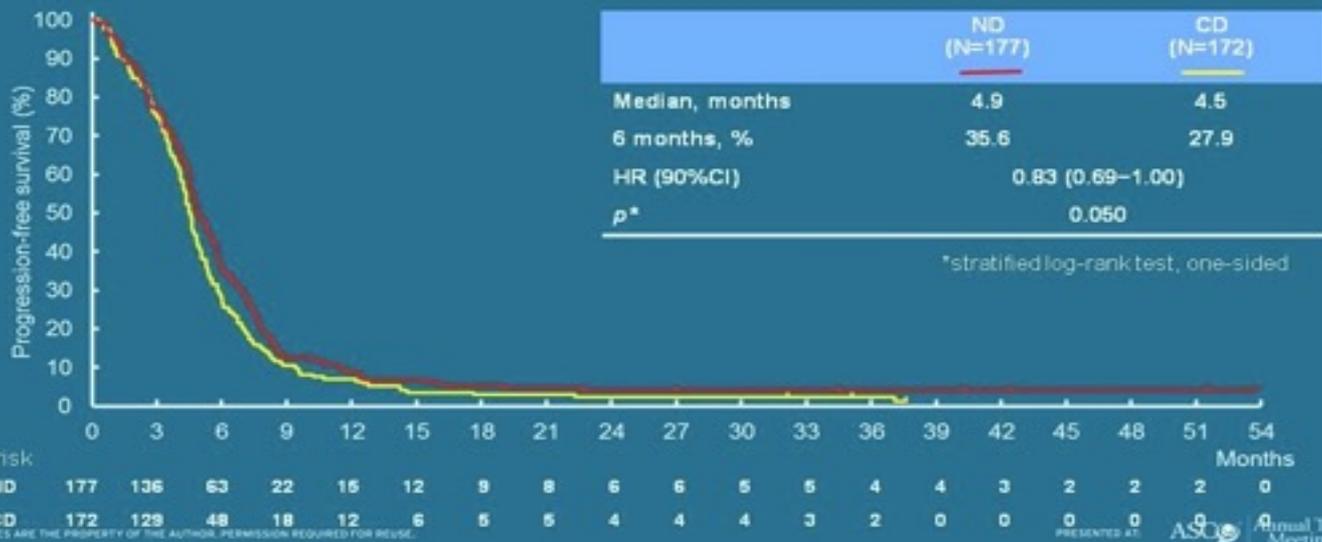
Nedaplatin OS y TTP



RECIST ver. 1.1

	ND (N=172)	CD (N=168)	p value
CR	3 (1.7%)	1 (0.6%)	-
PR	93 (54.1%)	88 (52.4%)	-
SD	50 (29.1%)	47 (28.0%)	-
PD	24 (14.0%)	27 (16.1%)	-
NE	2 (1.2%)	5 (3.0%)	-
ORR	55.8%	53.0%	0.663
DCR	84.9%	81.0%	0.387

*Fisher's exact test



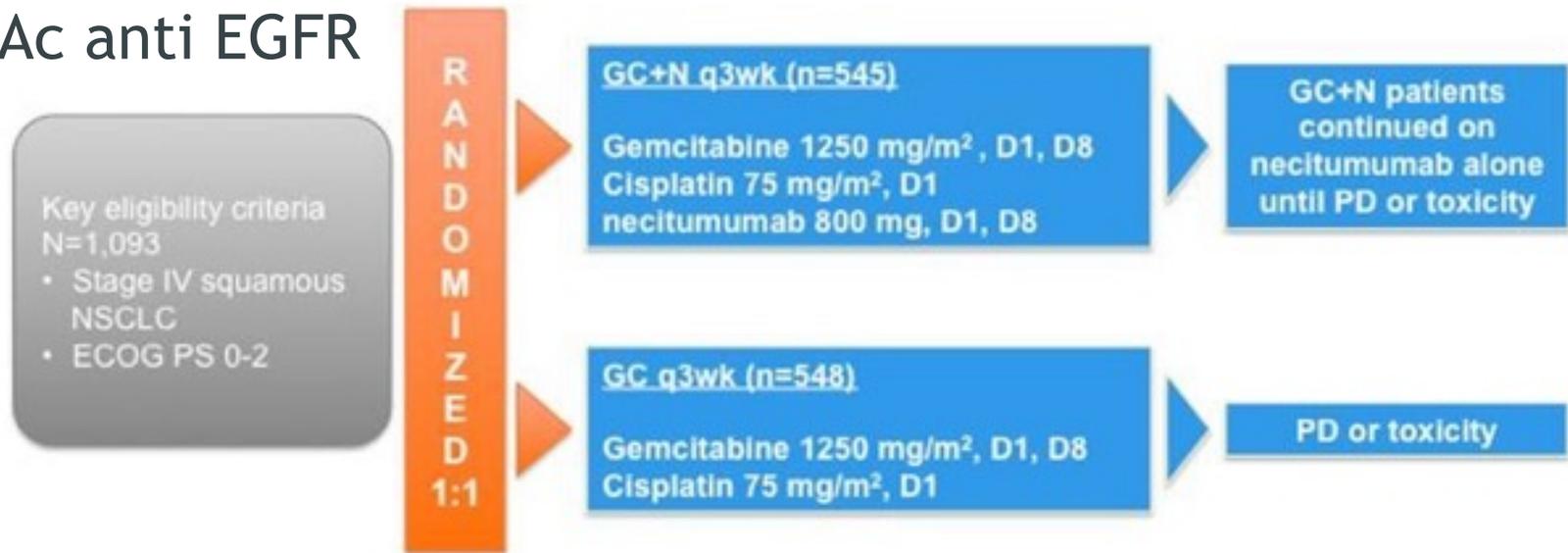
Conclusiones Nedaplatin

- Nedaplatin tiene mayor PFS y SG que Cisplatino.
- Menos náuseas y alteraciones hidroelectrolíticas con mayor toxicidad hematológica

Los datos necesitan confirmación en población no asiática

Necitumumab CPNM escamoso

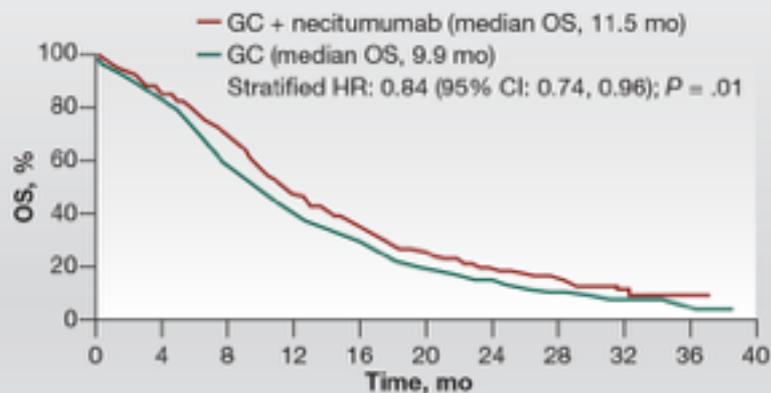
- Ac anti EGFR



Cohort (N=1093)	GC + N ^a n=545	GC n=548	HR (95% CI)	P Value
Median OS, months	11.5	9.9	0.84 (0.74, 0.96)	0.012
Median PFS, months	5.7	5.5	0.85 (0.74, 0.98)	0.020
ORR, %	31.2	28.8	—	0.400

Necitumumab

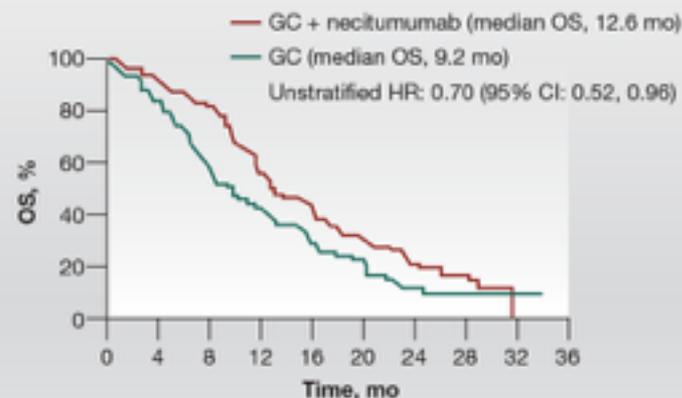
OS in Squamous Cell NSCLC: Gemcitabine/Cisplatin ± Necitumumab*



* Study design: Open-label RCT; patients (N = 1,093) with untreated stage IV squamous cell NSCLC (ECOG PS 0-2), were randomised to gemcitabine and cisplatin with or without necitumumab; primary endpoint is OS.

SQUIRE: OS for EGFR FISH+ Patients

OS in EGFR FISH+ Patients: Gemcitabine/Cisplatin ± Necitumumab

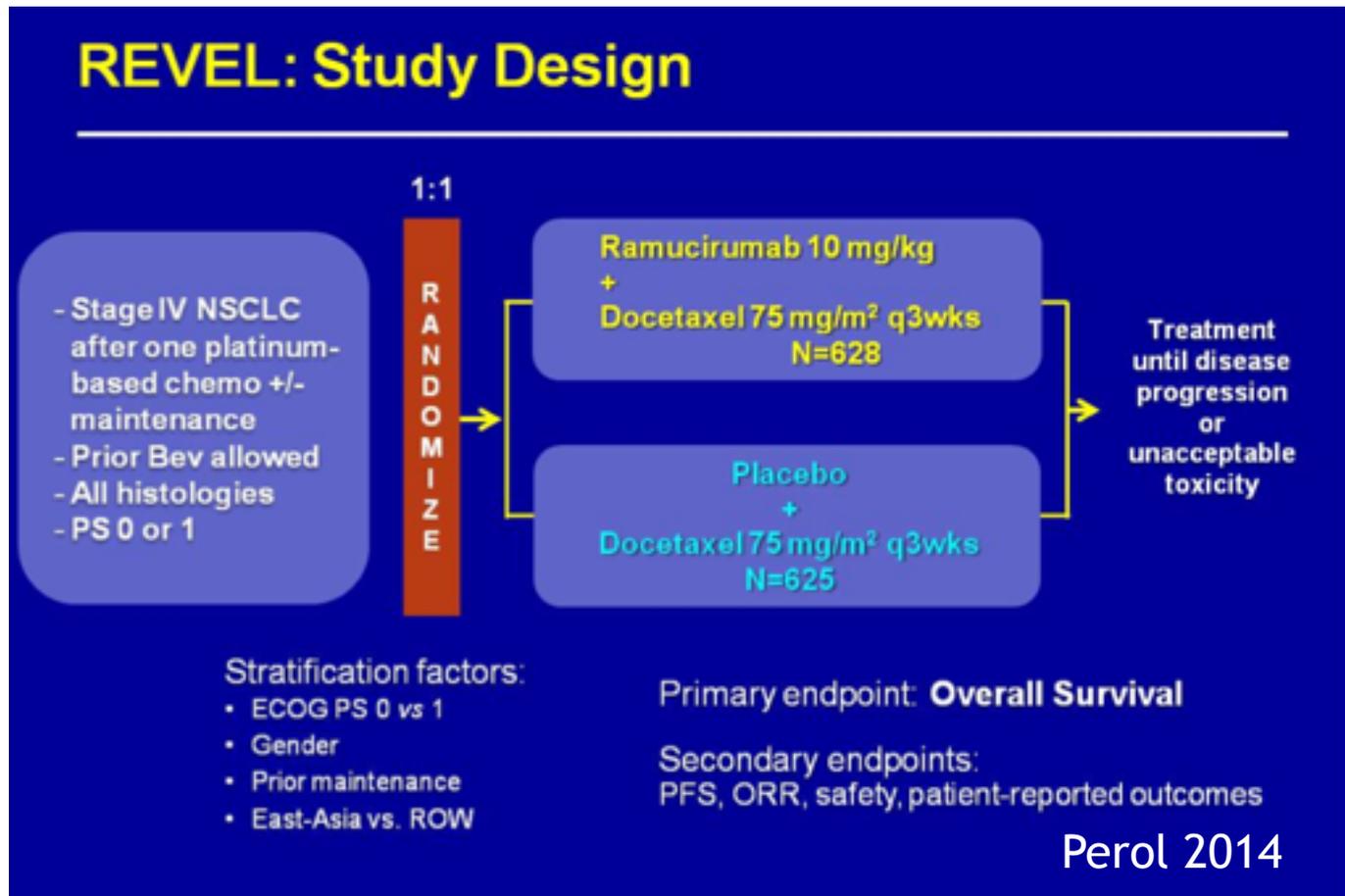


• Grade 3 and 4 AEs that were more common in the necitumumab/GC arm vs the GC arm were hypomagnesemia (9% vs 1%) and skin reactions (8% vs <1%)

- Modesto beneficio en SG
- Valor del mantenimiento en CPNM escamoso
- Perfil toxicidad

Ramucirumab

- Ramucirumab (RAM) es un Ac monoclonal humano IgG1 especialmente vinculado al dominio extracelular de VEGFR-2
- Aprobado en cáncer gástrico pretratado



Ramicirumab RR

Tumor Response by RECIST v1.1

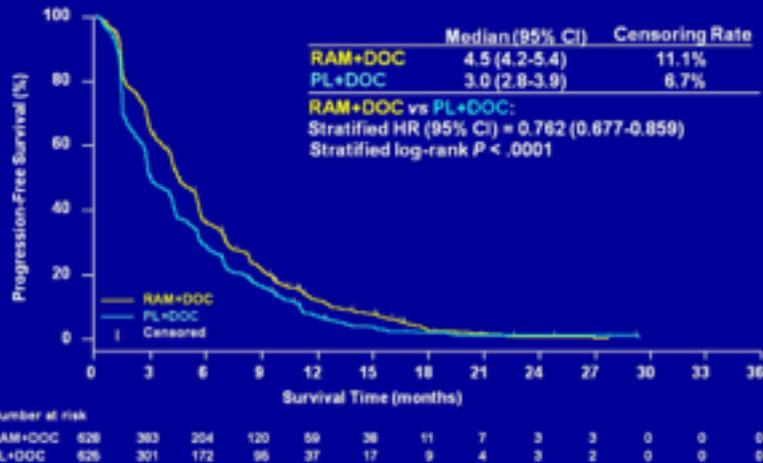
ITT Population, Investigator Assessment

	RAM+DOC N=628	PL+DOC N=625	<i>P</i> -value
Response, n (%)			
CR	3 (0.5)	2 (0.3)	
PR	141 (22.5)	83 (13.3)	
SD	258 (41.1)	244 (39.0)	
PD	128 (20.4)	206 (33.0)	
Unknown/not assessed	98 (15.6)	90 (14.4)	
ORR (CR+PR), % (95% CI)	22.9 (19.7-26.4)	13.6 (11.0-16.5)	<.001
DCR (CR+PR+SD), % (95% CI)	64.0 (60.1-67.8)	52.6 (48.6-56.6)	<.001

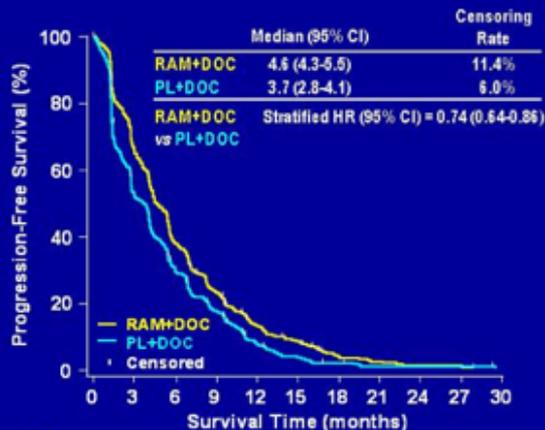
Ramucirumab y PFS

Progression-Free Survival

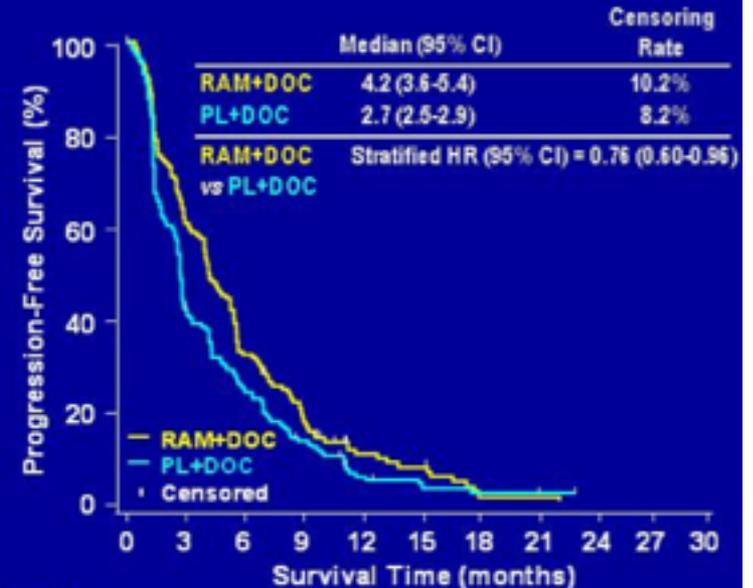
ITT Population, Investigator Assessment



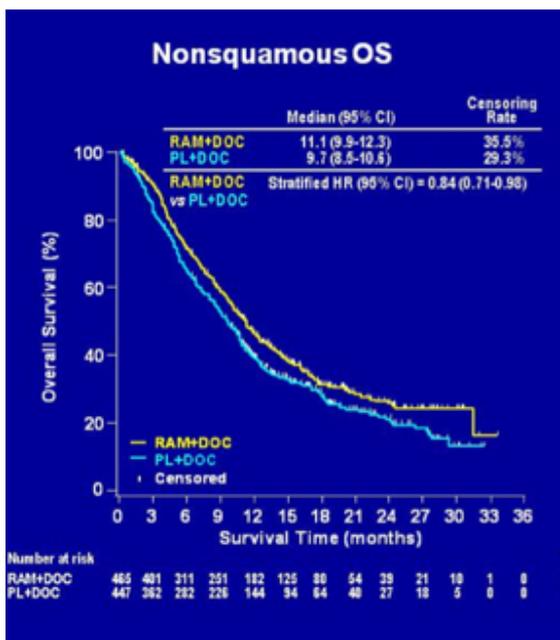
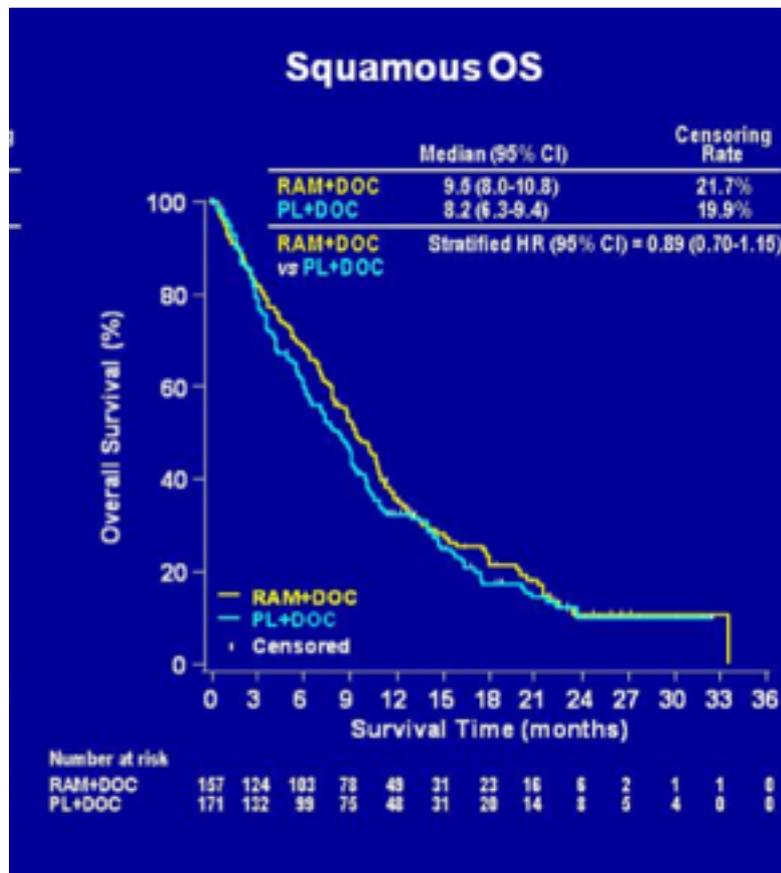
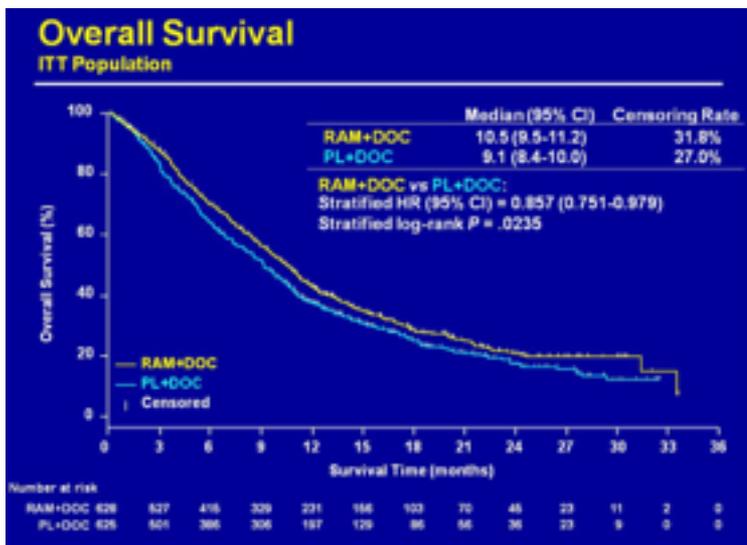
Nonsquamous PFS



Squamous PFS



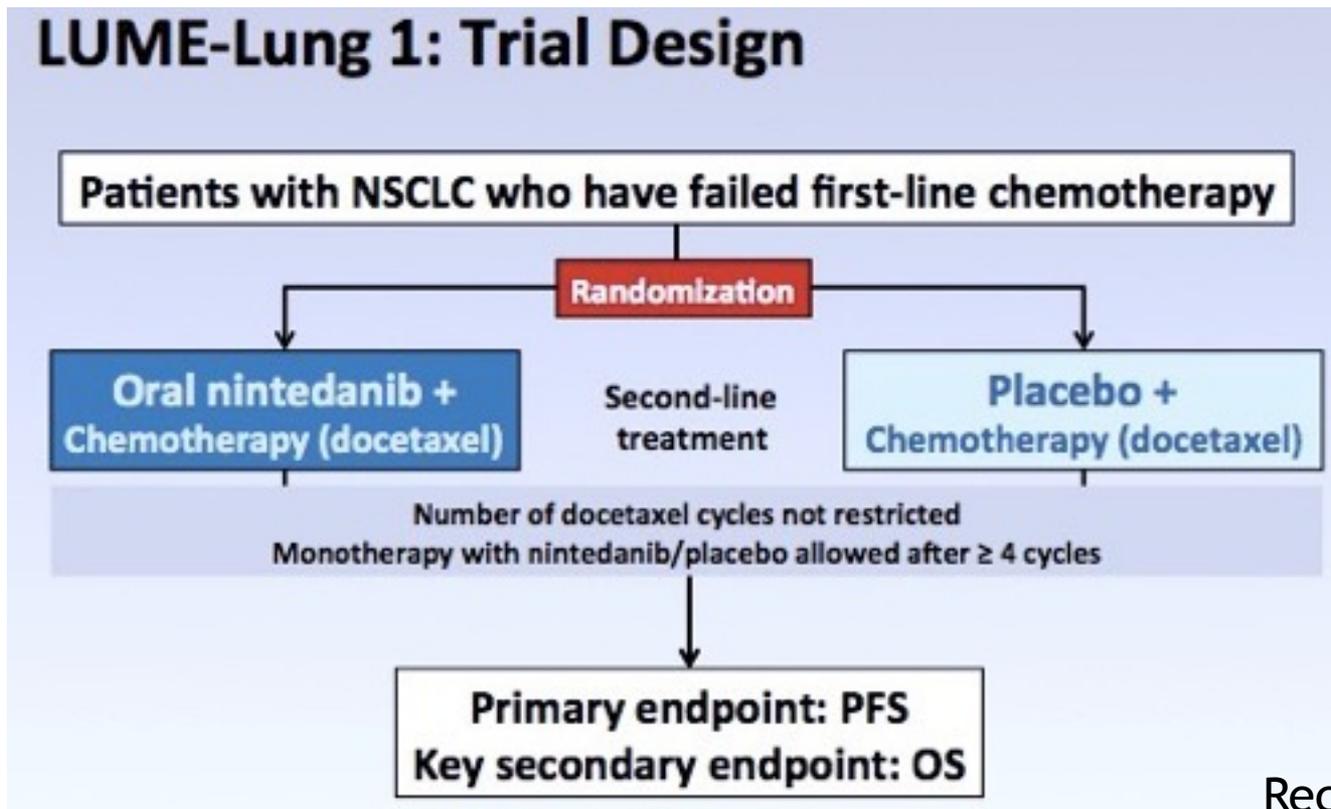
Ramucirumab: OS



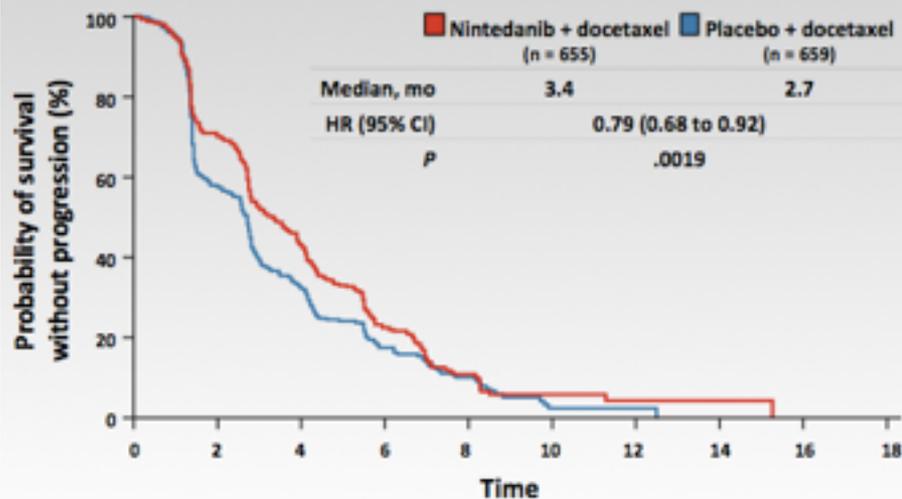
- Primer estudio que demuestra que la asociación de un nuevo agente a la quimioterapia mejora la SG en pacientes con CPNM en segunda línea.
- 1.4 meses de incremento en SG
- Es el primer inhibidor VEGF que muestra beneficio en pacientes con carcinomas escamosos
- Perfil tóxico aceptable: HTA, epistaxis y reacciones en punto de infusiones.

Nintedanib: 2º Línea CPNM

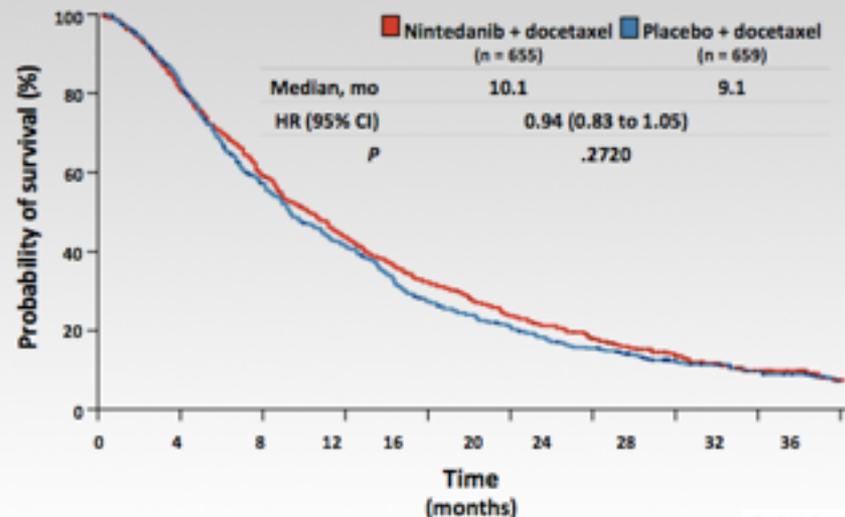
- Inhibidor tirosinkinasa, que ejerce su efecto antitumoral bloqueando VEGFR 1-3, PDGFR α and β y FGFR 1-3
- Vía oral



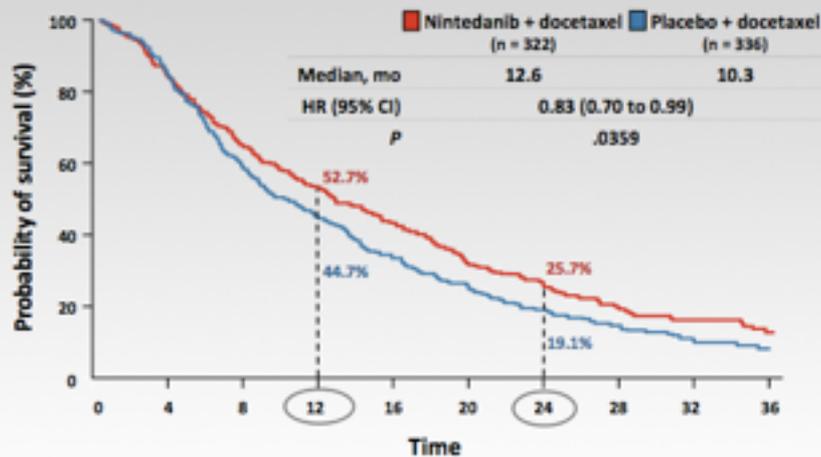
LUME-Lung 1: PFS (All Patients)



LUME-Lung 1: OS (All Patients)



LUME-Lung 1: OS (Adenocarcinoma Patients)



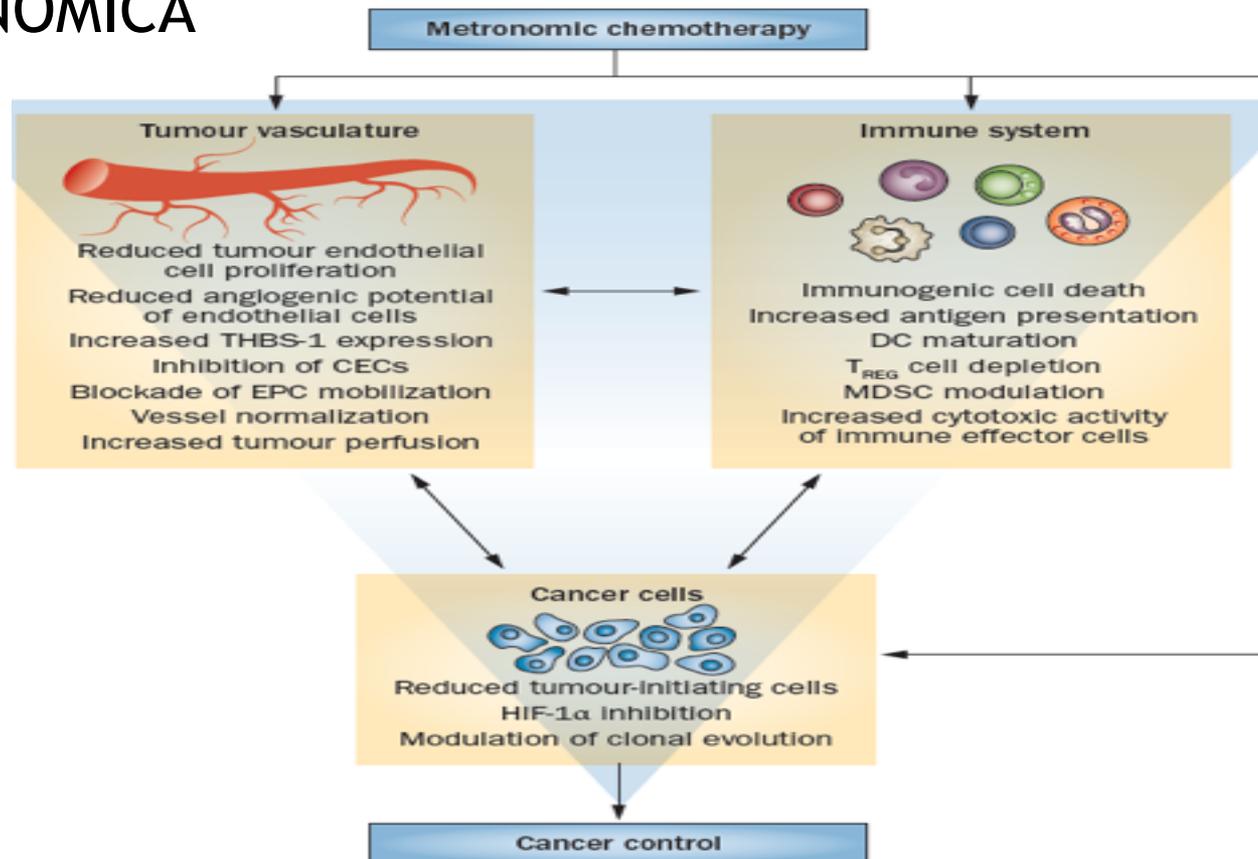
- La combinación mejora PFS en pacientes con CPNM refractario, en ambos subtipos histológicos
- *Prolonga OS en pacientes con adenocarcinoma, incluso en los pacientes de mal pronóstico (progresión en los primeros 9 meses de inicio de primera línea)*
- Principal efecto secundario: Diarrea y elevación enzimas hepáticas

¿Podemos mejorar los resultados?

- ¿Sigue siendo la quimioterapia la base del tratamiento del CPNM?
- ¿Disponemos de factores predictivos de respuesta?
 - Expresión ERCC1 es un factor predictivo de beneficio de Qt en pacientes con Qt adyuvante basada en platino
 - ERCC1 juega un papel fundamental en mecanismos de resistencia a QT y susceptibilidad de cáncer
 - La diferente expresión de Timidilato sintetasa puede determinar la respuesta a pemetrexed
 - RRM1, relacionada con la sensibilidad a Gemcitabina

¿Podemos mejorar más?

- Nuevas fórmulas de tratamientos ya conocidos: QT METRONÓMICA



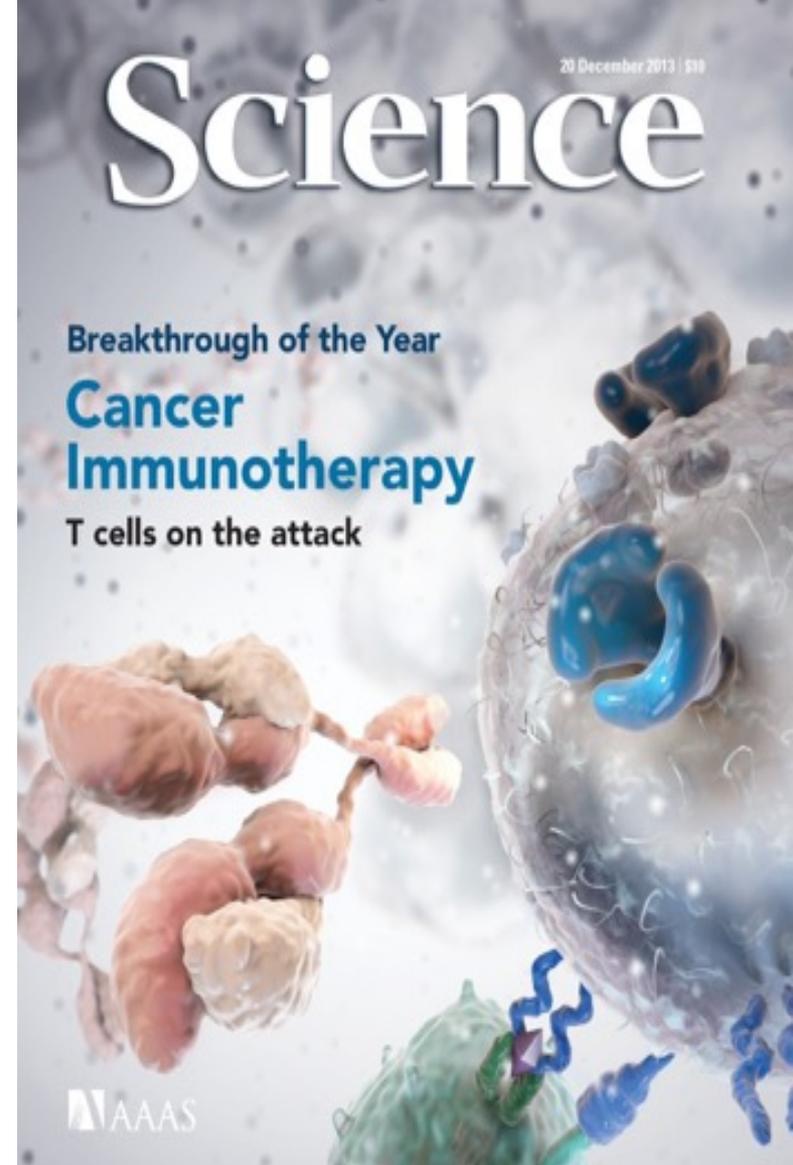
VNR oral metromómica 1º línea ancianos

- Edad mediana: 80 [70-92] años
- ECOG PS 0/1/2: 0/16/27 pacientes
- Dosis: 50 mg 3 días/semana (lunes, miércoles, viernes). Ciclos de 3 semanas
- Duración: mediana 5 ciclos [rango 1-21 ciclos]

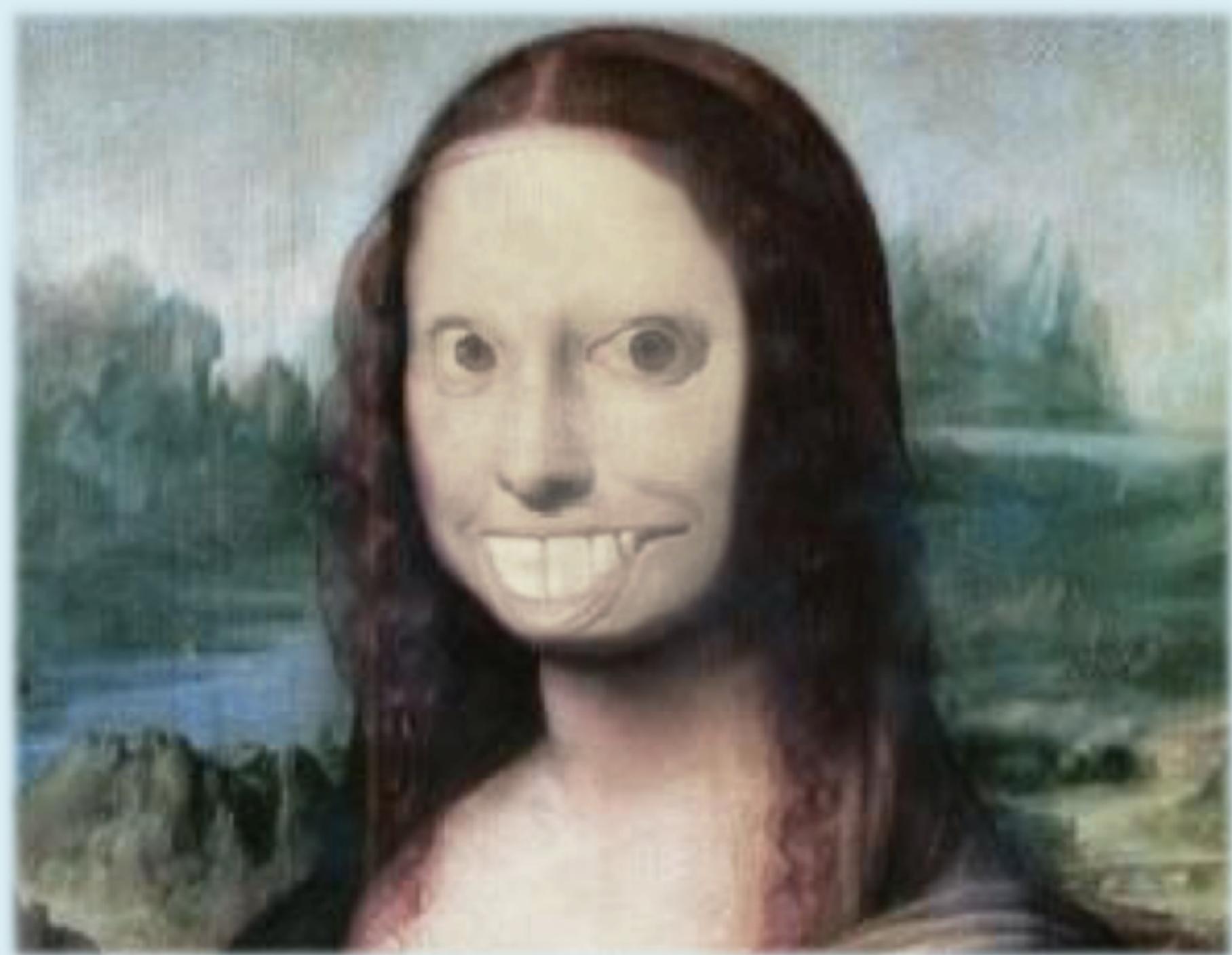
Respuesta Clínica (N=43)	n (%)
Respuesta Completa	1 (2,3)
Respuesta Parcial	7 (16,3)
Respuesta Global	8 (18,6)
EE >12 semanas	17(39,5)
Beneficio clínico	25 (58,1)
Mediana TTP	5 [2-21] meses
Mediana SG	9 [3-29] meses

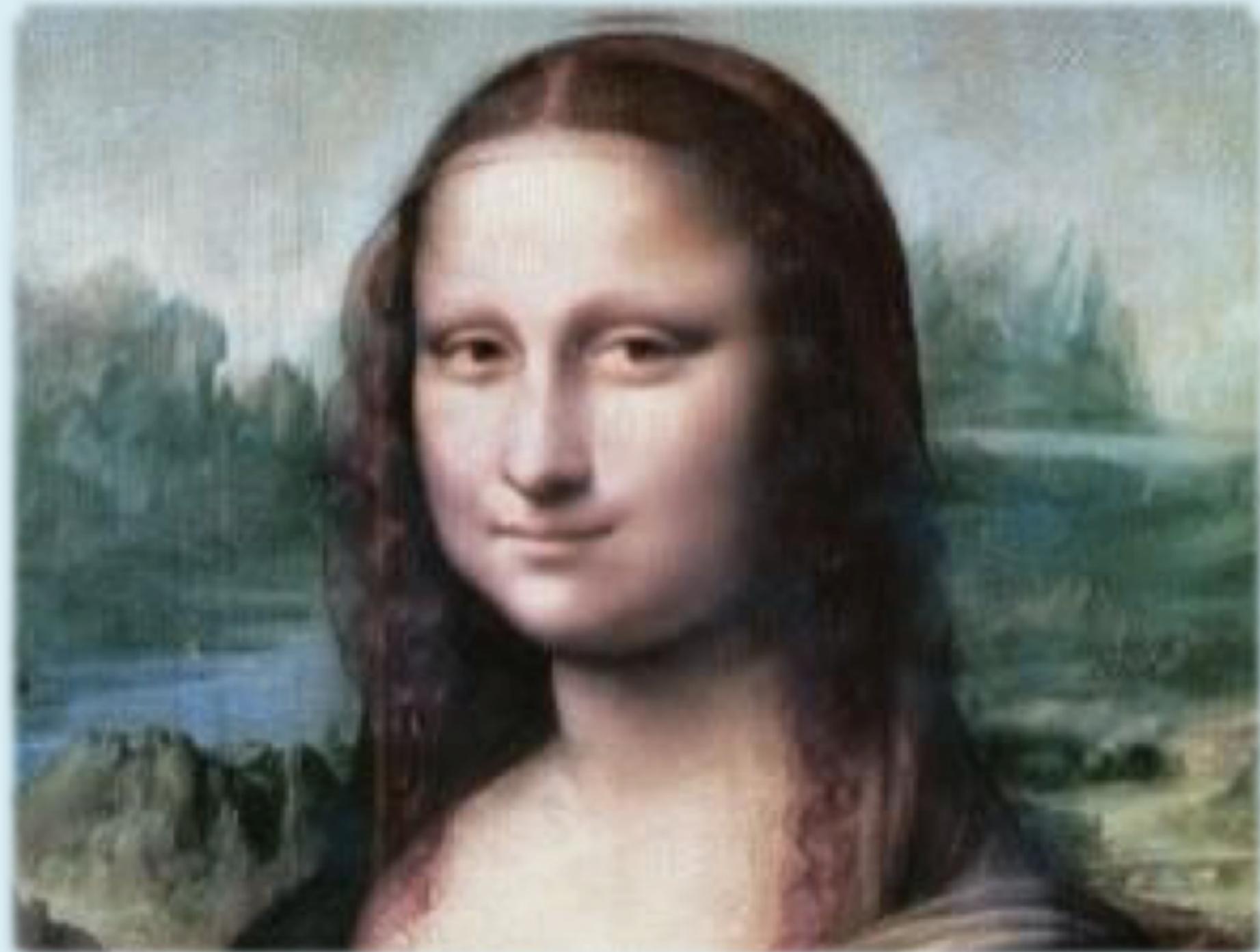
	Todos los grados(%)	Grado 3/4 (%)
Anemia	44	0,1
Neutropenia	4,0	0,1
Leucopenia	3,2	0
Náuseas	8	0
Vómitos	5	0
Fatiga	32,4	0,1
Diarrea	10,5	0,1
Neurotoxicidad	2,4	0

Los tumores crean el Caos

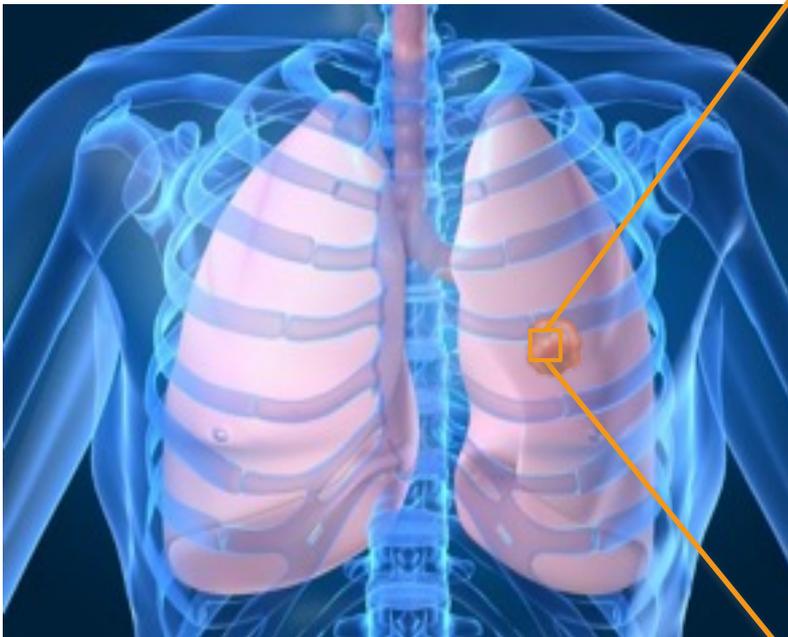


Los tumores hacen todo lo posible por evadir la respuesta inmune





Células inmunes y su impacto pronóstico en el CPNM



Pronóstico Favorable



▲ Dendritic cells

↑ OS, disease-specific survival, disease-free survival¹



▲ CD3⁺ cells

↑ NSCLC survival and lower risk of disease recurrence²⁻⁴



▲ CD8⁺ cells

↑ OS⁵⁻⁸



▲ CD4⁺ cells

↑ OS^{6,9}



▲ Macrophages

↑ OS⁷



▲ NK cells

↑ NSCLC-specific survival¹⁰

Pronóstico Desfavorable¹



▲ NK Cells (immature / impaired)

↑ Disease progression¹¹



▲ Tregs

↑ OS, relapse- and recurrence-free survival^{12,13}

OS = overall survival.

1. Dieu-Nosjean M, et al. *J Clin Oncol*. 2008;26:4410-4117; 2. Petersen R, et al. *Cancer*. 2006;107:2866-2872;
3. Al-Shibli K, et al. *APMIS*. 2010;118:371-382; 4. Ruffini E, et al. *Ann Thorac Surg*. 2009;87:365-372;
5. Zhuang X, et al. *Appl Immunohistochem Mol Morphol*. 2010;18:24-28; 6. Hiraoka K, et al. *Br J Cancer*. 2006;94:275-280;
7. Kawai O, et al. *Cancer*. 2008;113:1387-1395; 8. McCoy M, et al. *Br J Cancer*. 2012;107:1107-1115;
9. Wakabayashi O, et al. *Cancer Sci*. 2003;11:1003-1009; 10. Al-Shibli K, et al. *Histopathol*. 2009;55:301-312;
11. Jin J, et al. *PLoS One*. 2013;8:e61024; 12. Tao H, et al. *Lung Cancer*. 2012;75:95-101; 13. Shimizu K, et al. *J Thorac Oncol*. 2010;5:585-590.

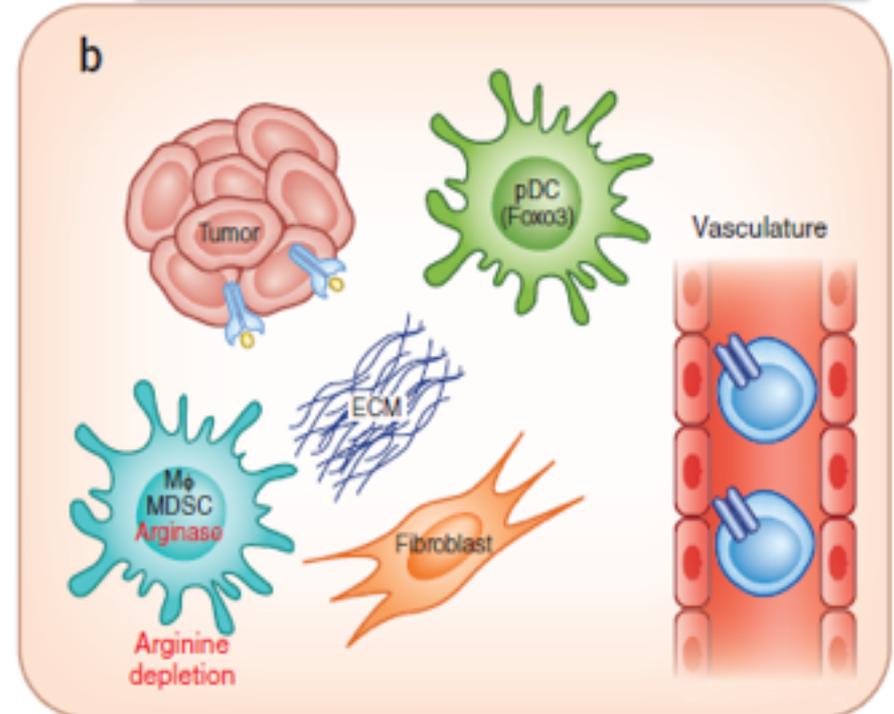
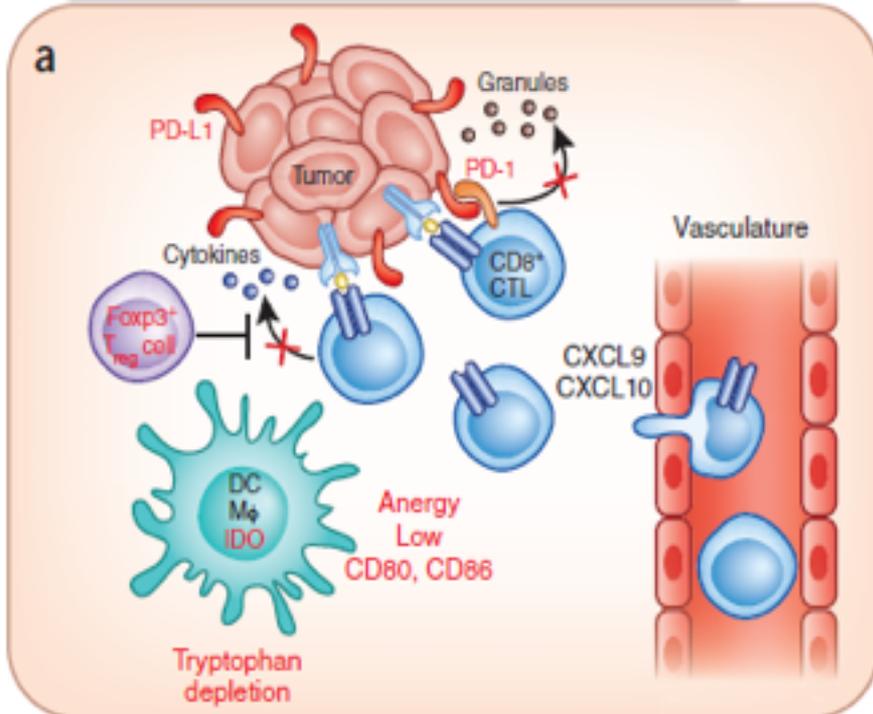
¿Son todos los tumores iguales inmunológicamente?

Segregation of tumors based on immune infiltrates in the tumor microenvironment

T cell-infiltrated tumors

microenvironment

non-T cell-infiltrated tumors



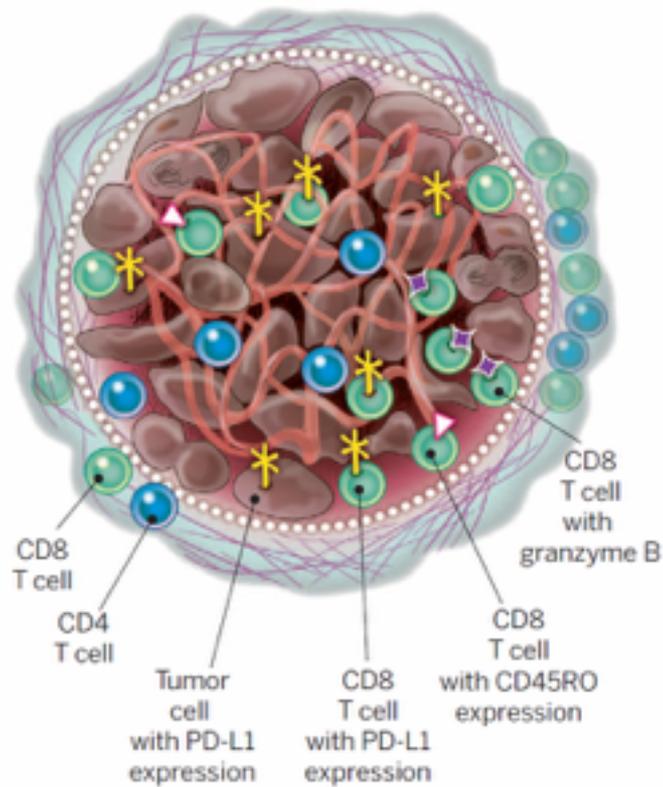
T cell recruitment : High levels of innate immune signals, chemokine expression (influx of CD8+T cells)

BUT, negative immune regulators dominate:

- Inhibitory receptors
- Suppressive cells
- Suppressive enzymes (IDO, arginase)

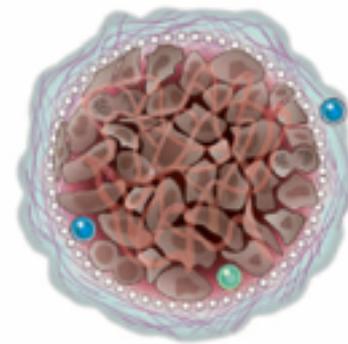
Poor effector cell trafficking due to:

- High expression of vascular markers, macrophages, fibroblasts
- Low inflammation and chemokine expression, few lymphocyte

A

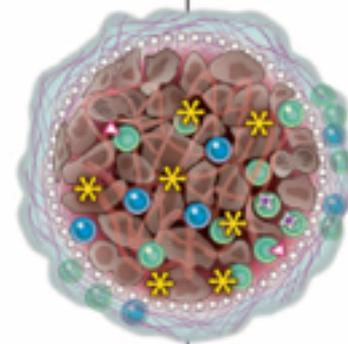
Immunogenic tumor microenvironment

Immune checkpoint therapy and durable clinical benefit

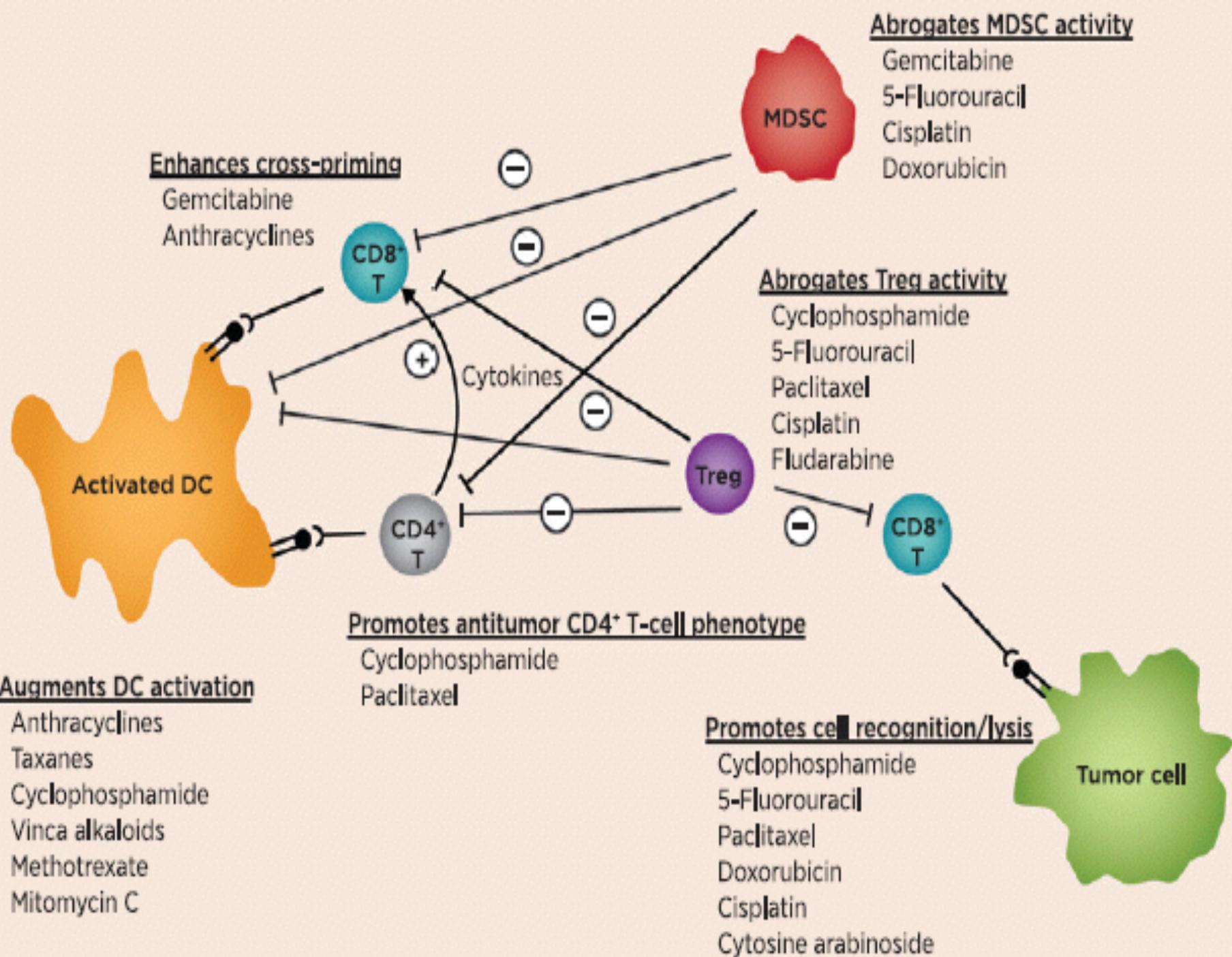
B

Nonimmunogenic tumor microenvironment

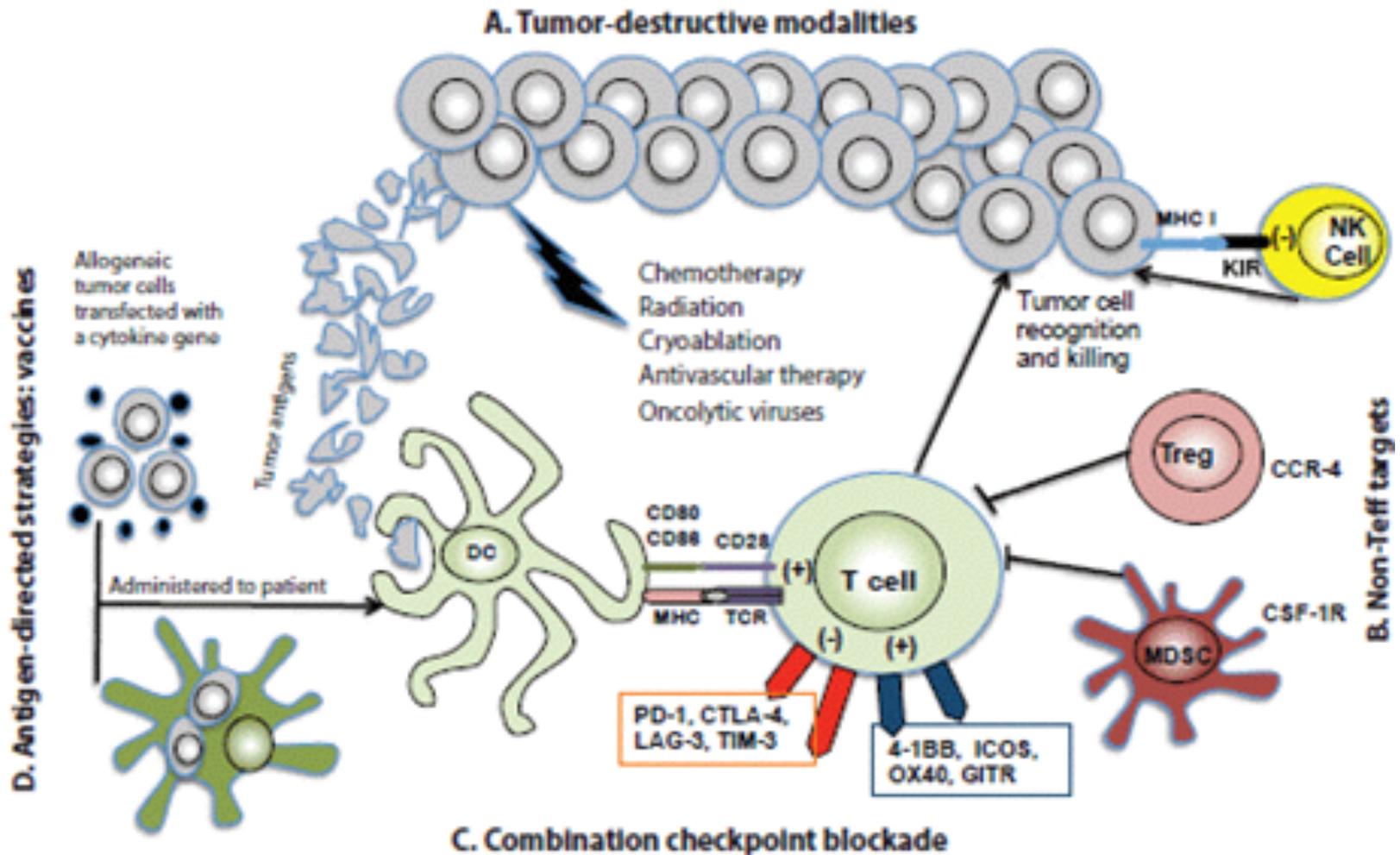
Combination therapies with agents that create immunogenic tumor microenvironment and immune checkpoint therapy



Durable clinical benefit



Combination strategies with cytotoxic T lymphocyte associated antigens (CTLA4) blockade







Conclusiones finales

- El tratamiento de precisión del cáncer de pulmón es ya una realidad.
- La quimioterapia tiene un papel definido, pero veremos un cambio en la intención de los tratamientos
- El algoritmo terapéutico en pacientes “pan-negativos” es también complejo, siendo preciso definir factores predictivos.
- Estos factores dependerán de tratamientos previos, tipo de respuesta, perfil tóxico y características intrínsecas de los pacientes.
- La combinación, secuenciación e incluso la alternancia o incluso la repetición de los tratamientos mejorará los resultados

barranc 1h 25min

de l'Infèrn

