

19^{as} Jornadas HITOS
ONCOLÓGICOS: LO MEJOR
DE **2024**

MADRID 20 - 21 NOVIEMBRE 2024



Quimioinmunoterapia neoadyuvante en el cáncer de mama triple negativo: datos de supervivencia

Isabel Echavarria Díaz-Guardamino, MD, PhD

Hospital General Universitario Gregorio Marañón

Employment:

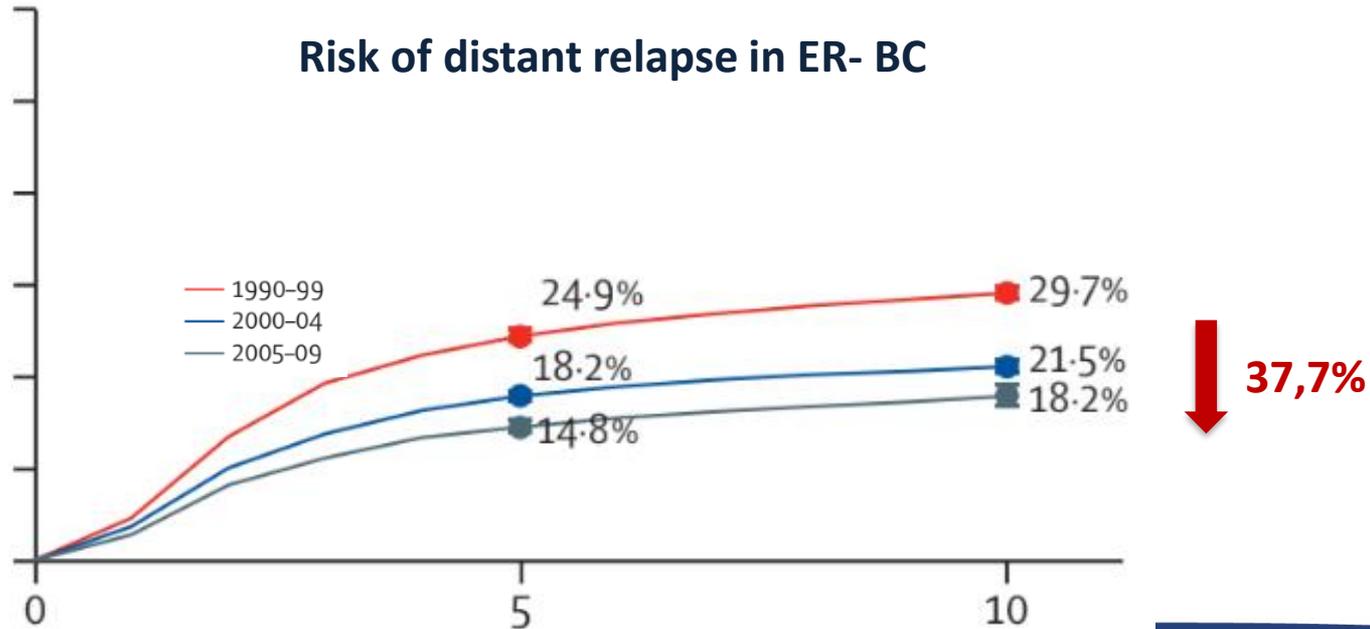
- Hospital General Universitario Gregorio Marañón.
- Spanish Society of Medical Oncology

Consultant or Advisory Role: Lilly, AstraZeneca, Daiichi Sankyo

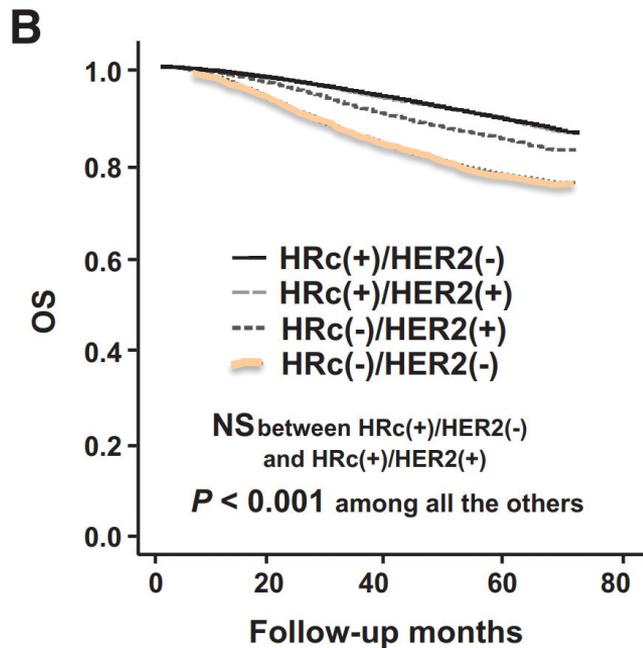
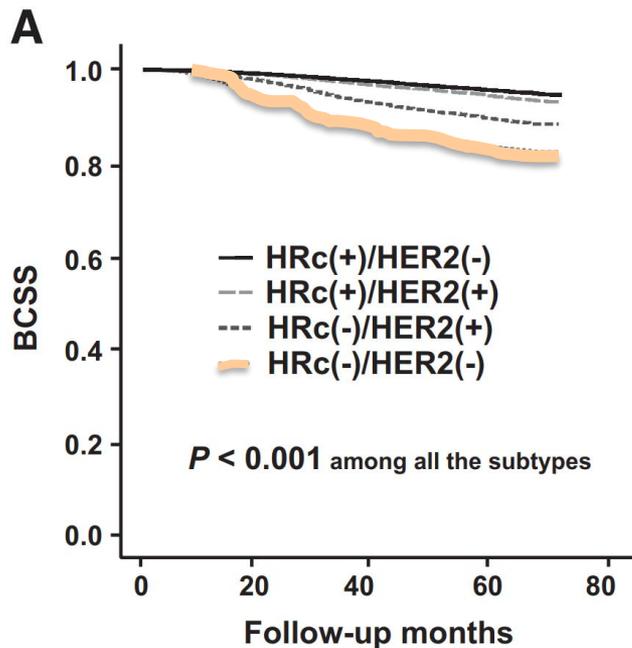
Speaking: Lilly, AstraZeneca, Daiichi Sankyo, Pfizer, Novartis, Roche, Gilead, Pierre Fabre

Reductions in recurrence in women with early breast cancer entering clinical trials between 1990 and 2009: a pooled analysis of 155 746 women in 151 trials

Early Breast Cancer Trialists' Collaborative Group*



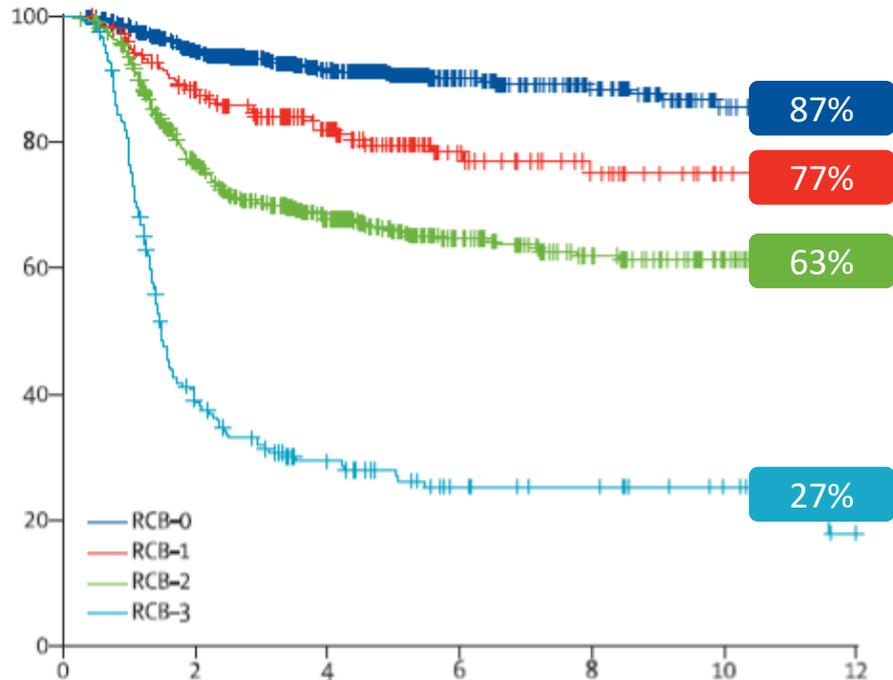
El reto del CMTN



Quimioterapia neoadyuvante como estándar de tratamiento en CMTN

- Paradoja CMTN: mayor agresividad pero mayor quimiosensibilidad
- Quimioterapia neoadyuvante como estándar de tratamiento:
 - Tratamiento de la enfermedad micrometastásica
 - Monitorización de la respuesta
 - Desescalada cirugía: mama / axila
 - Ventana para la realización de estudio genético germinal.

Valor pronóstico de la respuesta a QTNA en la era pre-ICI



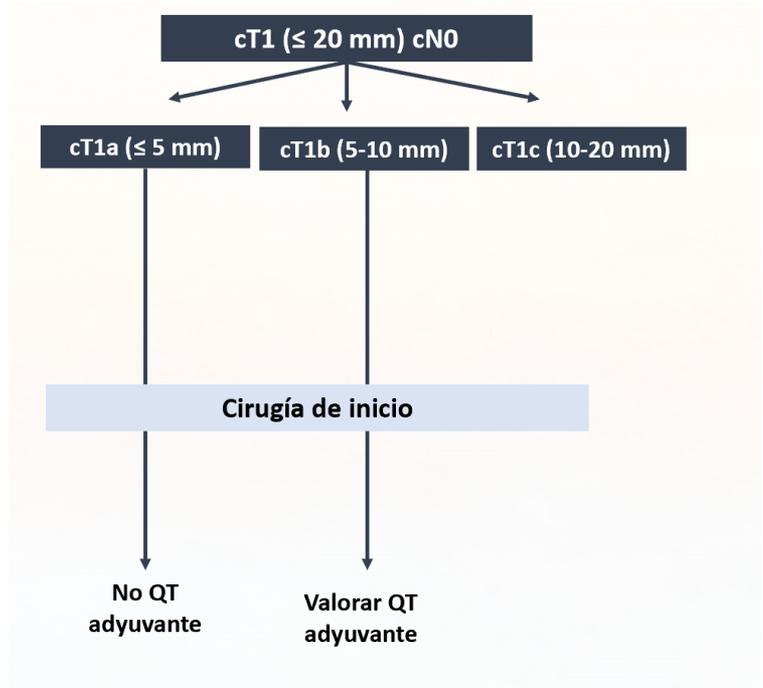
10y DRFS

Mayoría de las recaídas a distancia

SG 18-24 meses desde la recidiva

La neo/adyuvancia como momento único para curar a estas pacientes

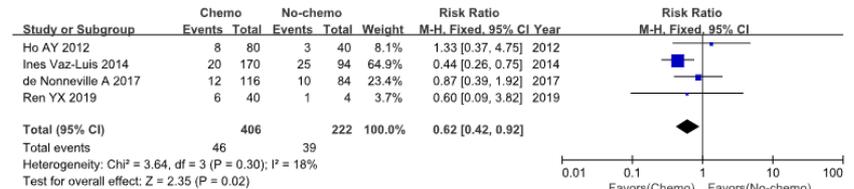
ALGORITMO TERAPÉUTICO CMTN: cT1a-b cN0



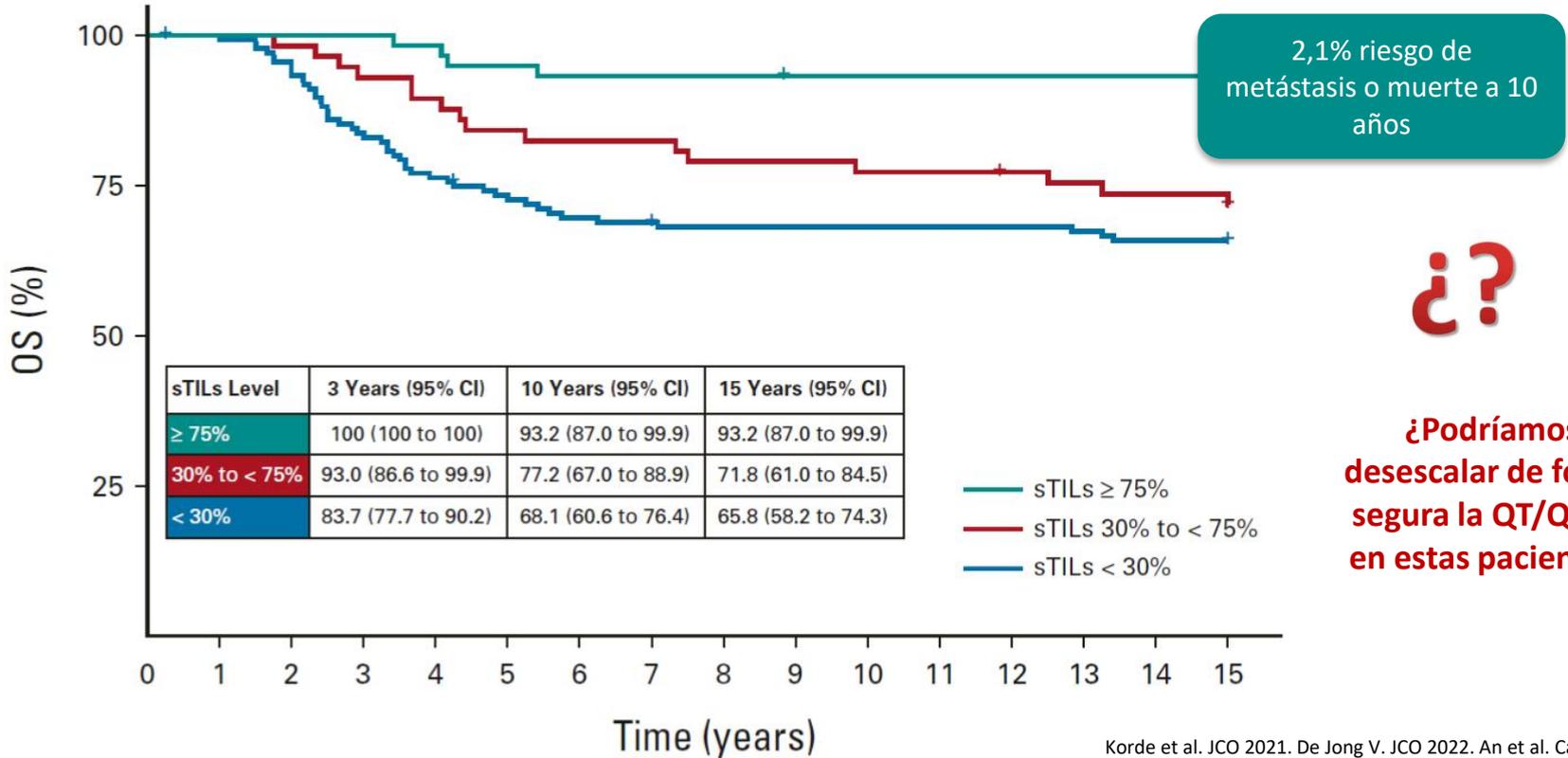
ALGORITMO TERAPÉUTICO CMTN: cT1a-b cN0

- No indicación de quimioterapia neoadyuvante
- No evidencia de beneficio con QT adyuvante en pT1a pN0.
- Posible beneficio con la QT adyuvante en pT1b pN0

Adjuvant Chemotherapy for Small, Lymph Node–Negative, Triple-Negative Breast Cancer: A Single-Center Study and a Meta-Analysis of the Published Literature

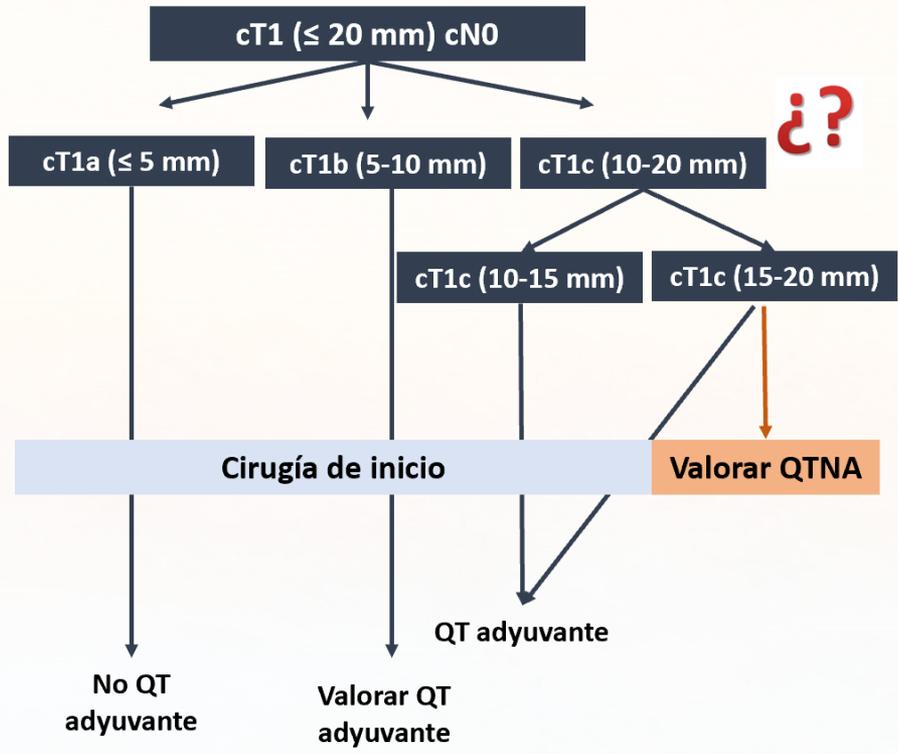


Valor pronóstico de las TILs en CMTN cT1 cN0 sin quimioterapia



¿Podríamos desescalar de forma segura la QT/QTNA en estas pacientes?

QTNA como estándar en CMTN $\geq 15-20$ mm y/o cN+

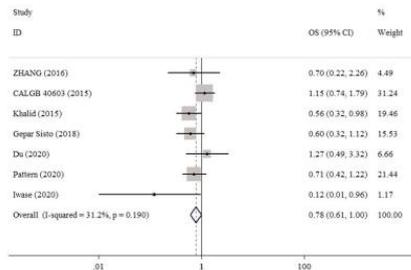
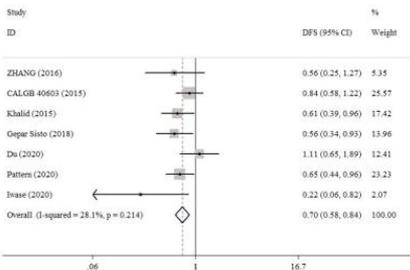


La neoadyuvancia en la era pre-ICI o en cT1c cN0



Uso de platinos

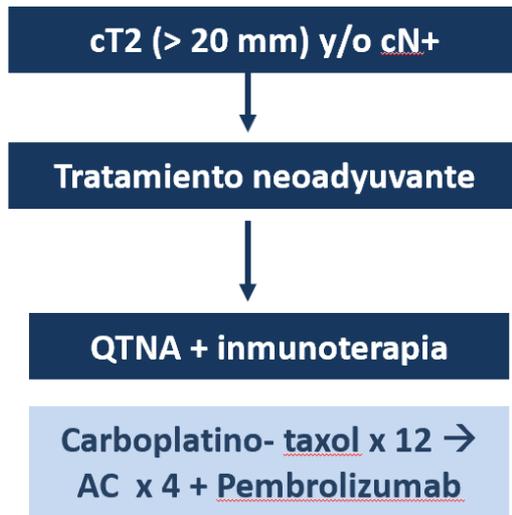
Esquemas sin antraciclinas



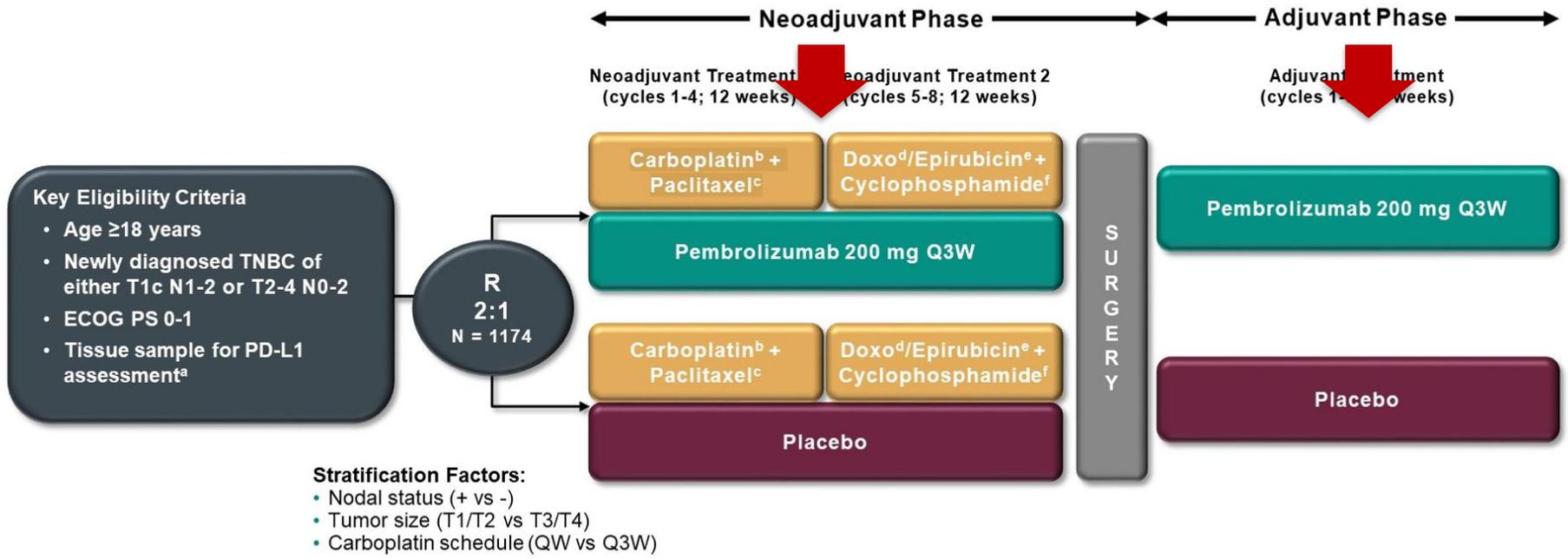
SLE
HR=0,70

SG
HR=0,78

La neoadyuvancia en CMTN \geq cT2 y/o cN+



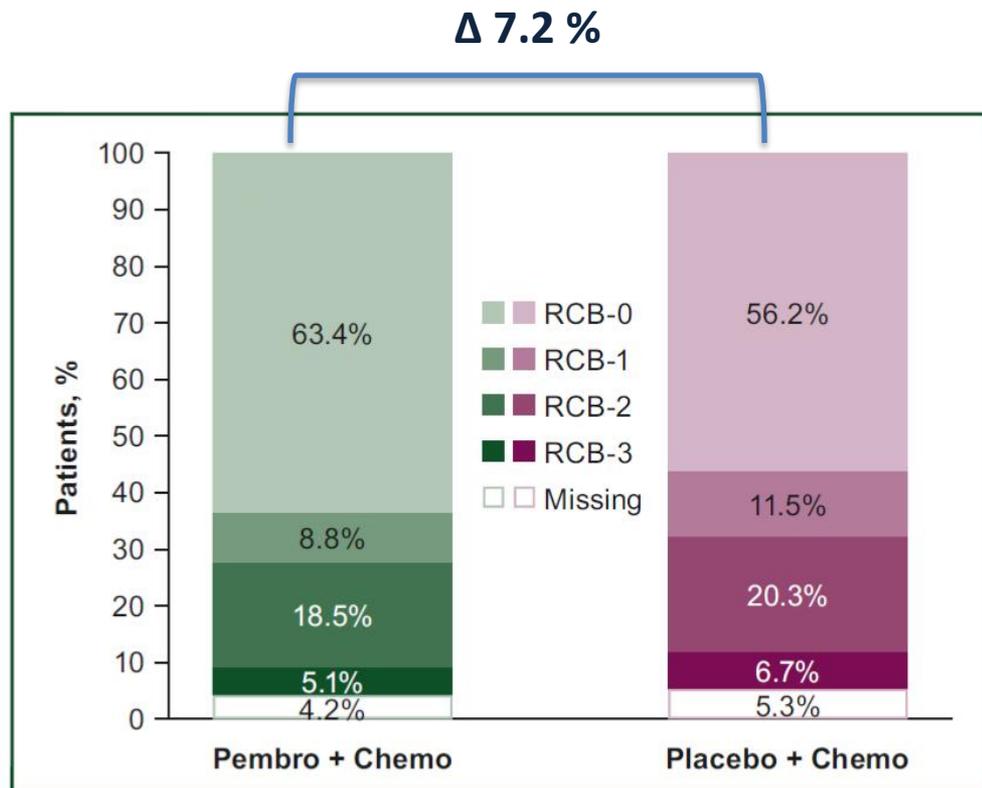
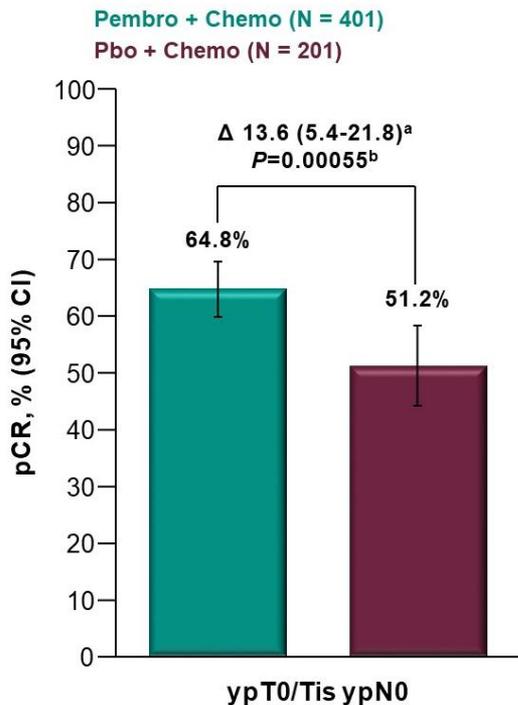
KEYNOTE-522 Study Design (NCT03036488)



Objetivo primario: pCR y EFS en ITT
Objetivo secundario clave: OS

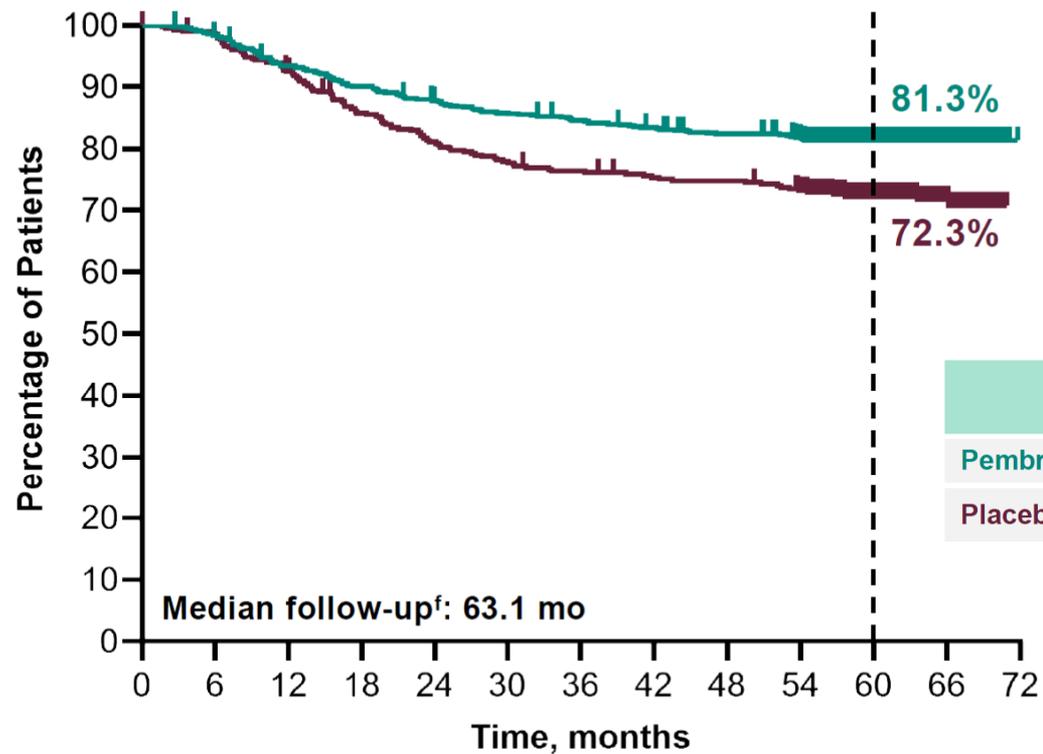
Pembrolizumab incrementa las pCR

pCR at IA1¹



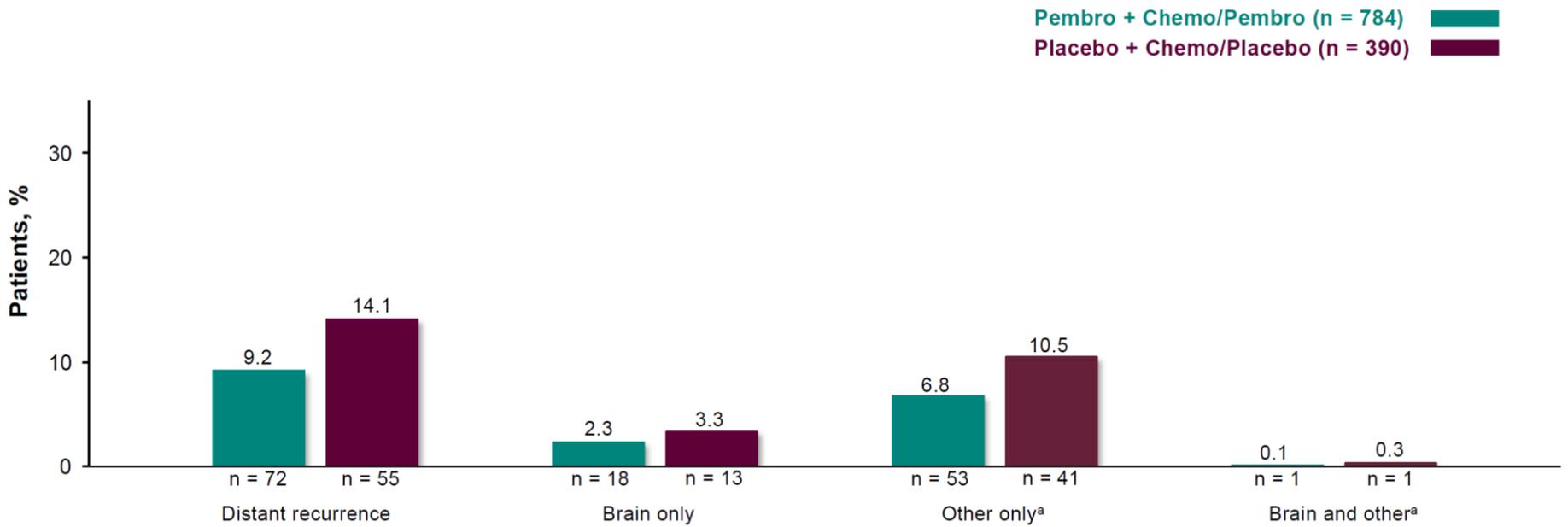
Pembrolizumab incrementa la SLE

EFS at IA6

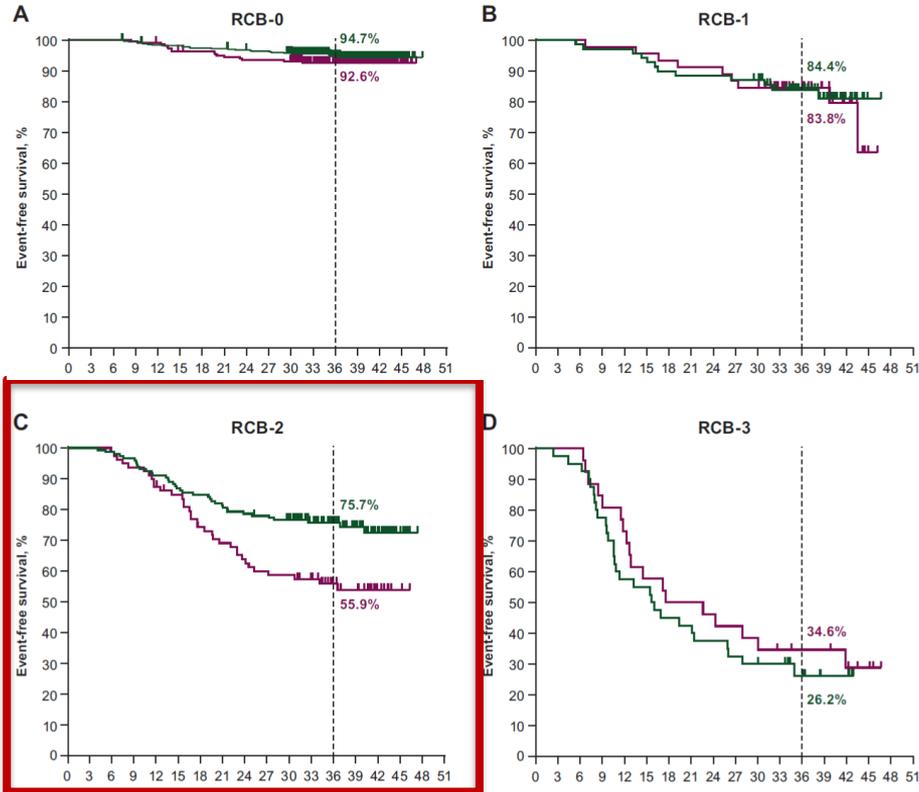


IA6 ^b	Events	HR (95% CI)
Pembro + Chemo/Pembro	18.5%	0.63 ^c (0.49–0.81)
Placebo + Chemo/Placebo	27.7%	

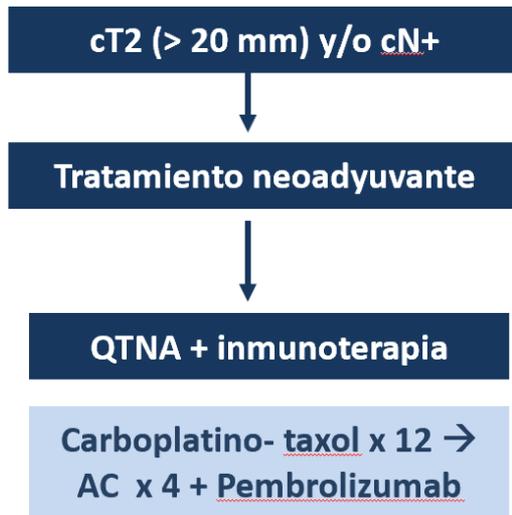
Distant Recurrence as First EFS Event



Impacto en EFS según enfermedad residual

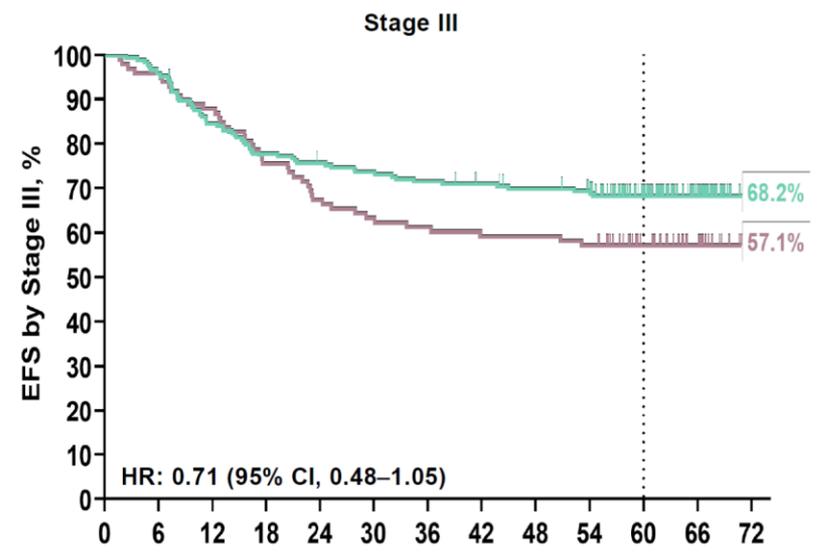
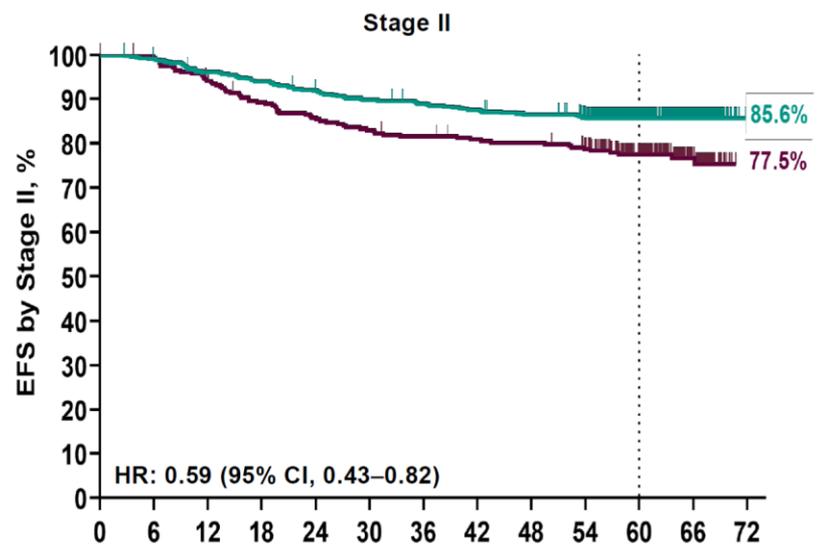


La neoadyuvancia en CMTN \geq cT2 y/o cN+

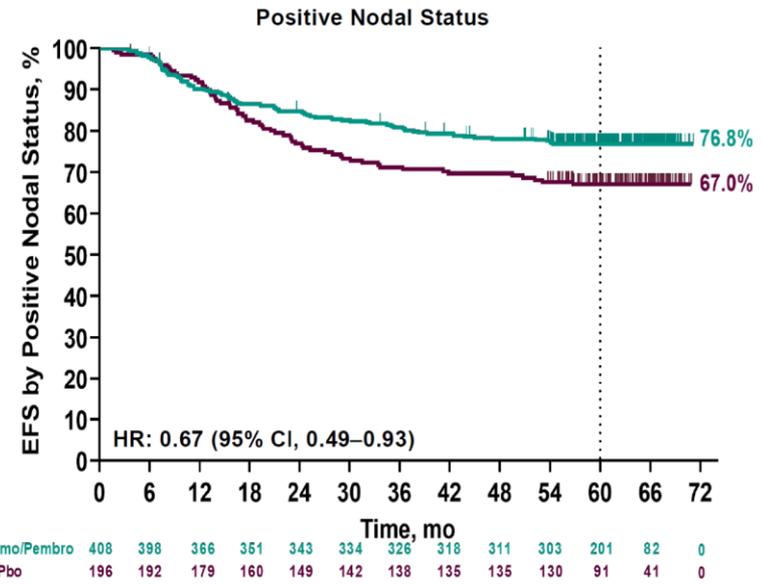
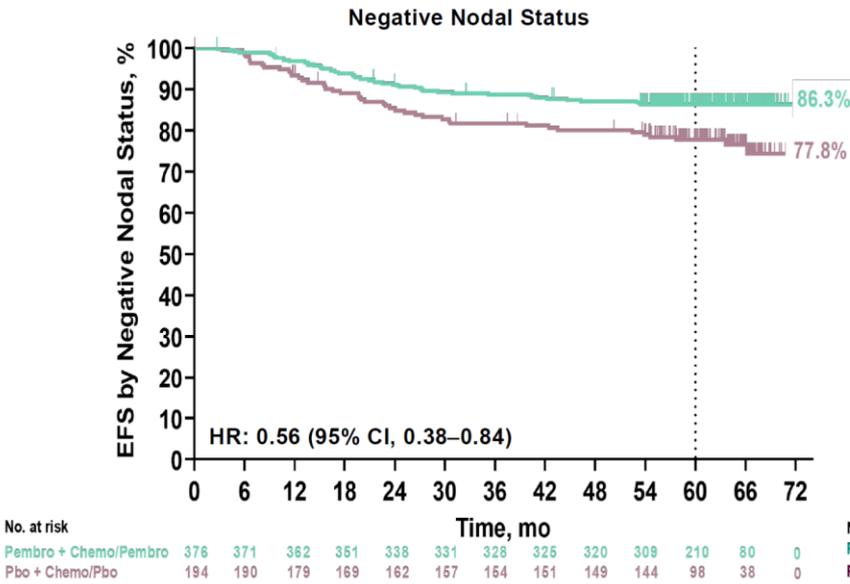


¿Podemos identificar pacientes que no se benefician de pembrolizumab?

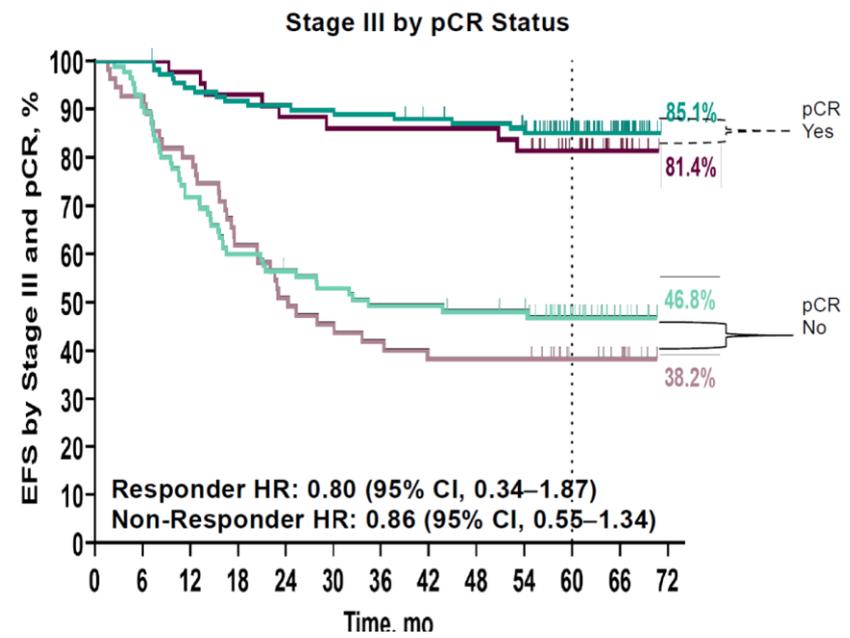
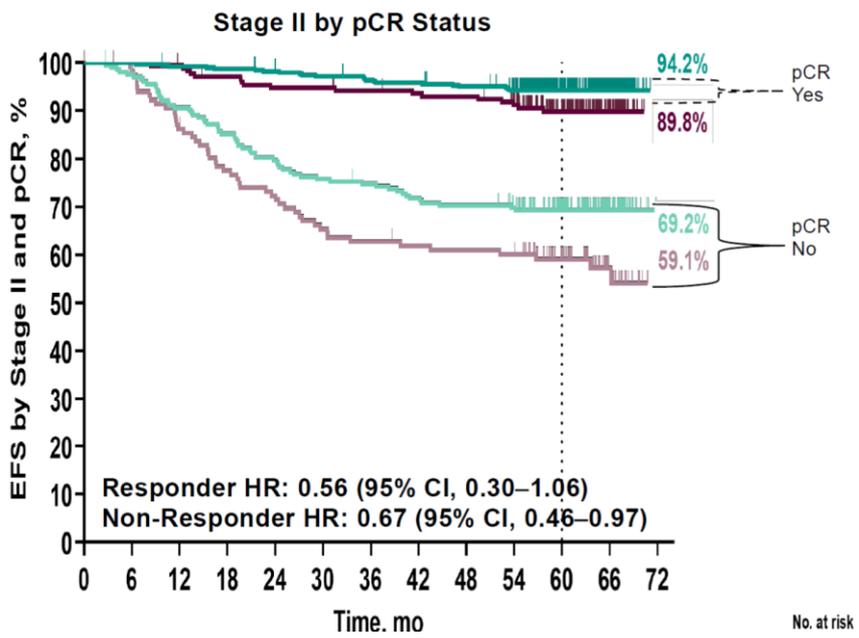
EFS at IA6 by Disease Stage



EFS at IA6 by Nodal Status



EFS at IA6 by Disease Stage in Patients With and Without pCR

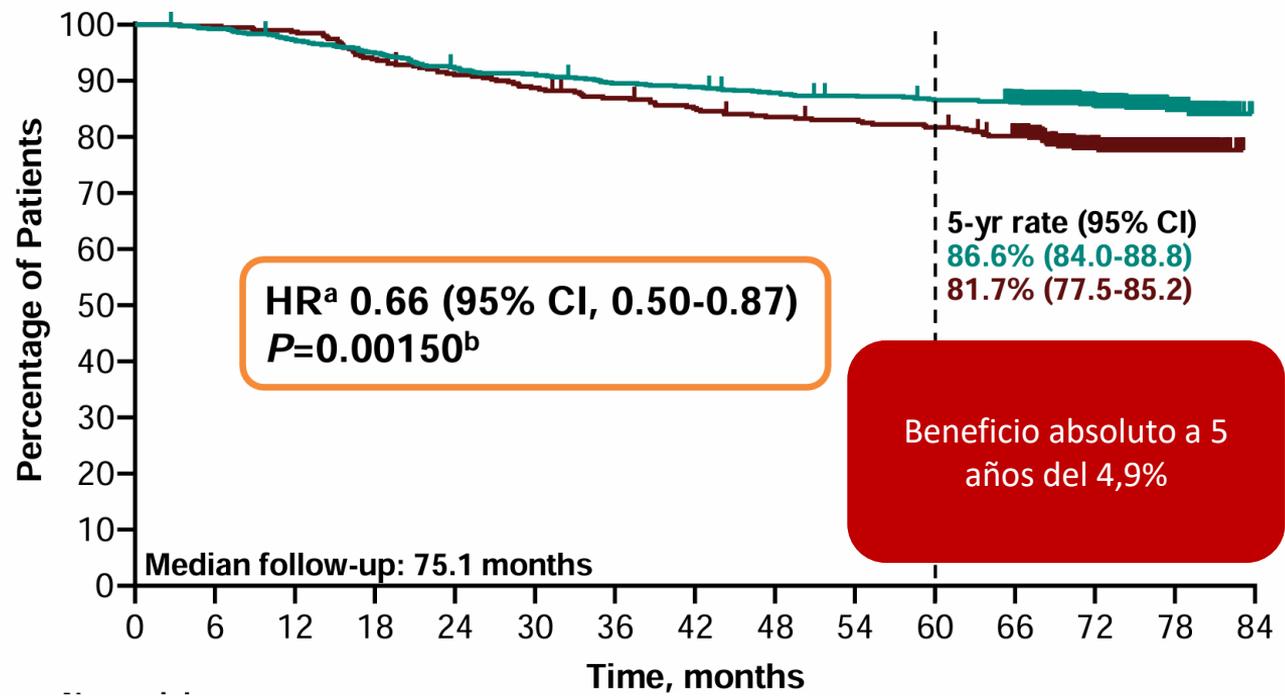


No. at risk

No. at risk

Pembrolizumab incrementa la SG

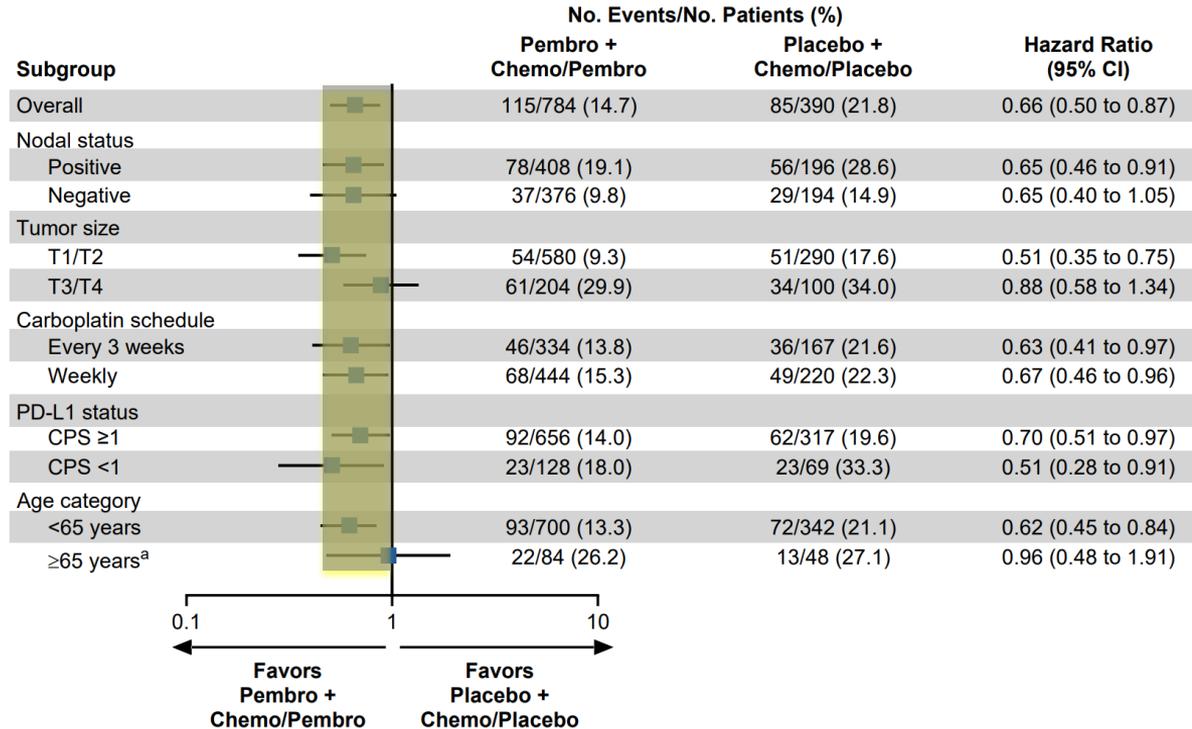
Key Secondary Endpoint: Overall Survival



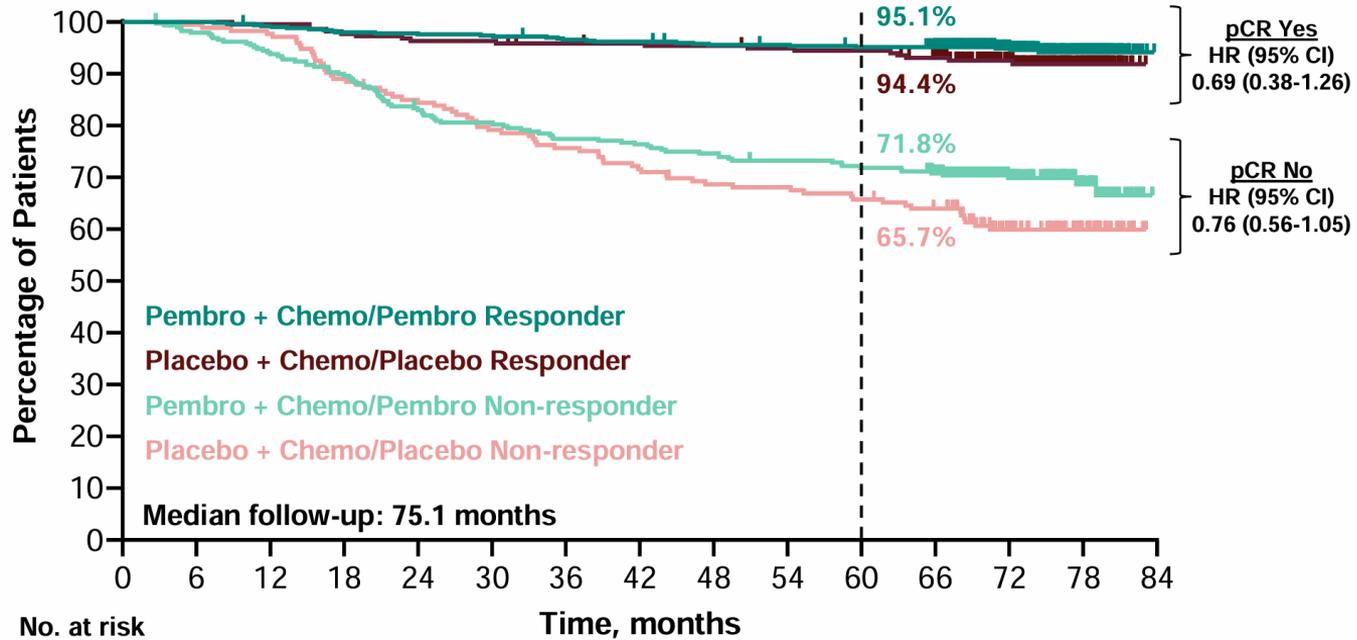
	Pts w/ Event
Pembro + Chemo/Pembro	14.7%
Placebo + Chemo/Placebo	21.8%

Pembrolizumab incrementa la SG

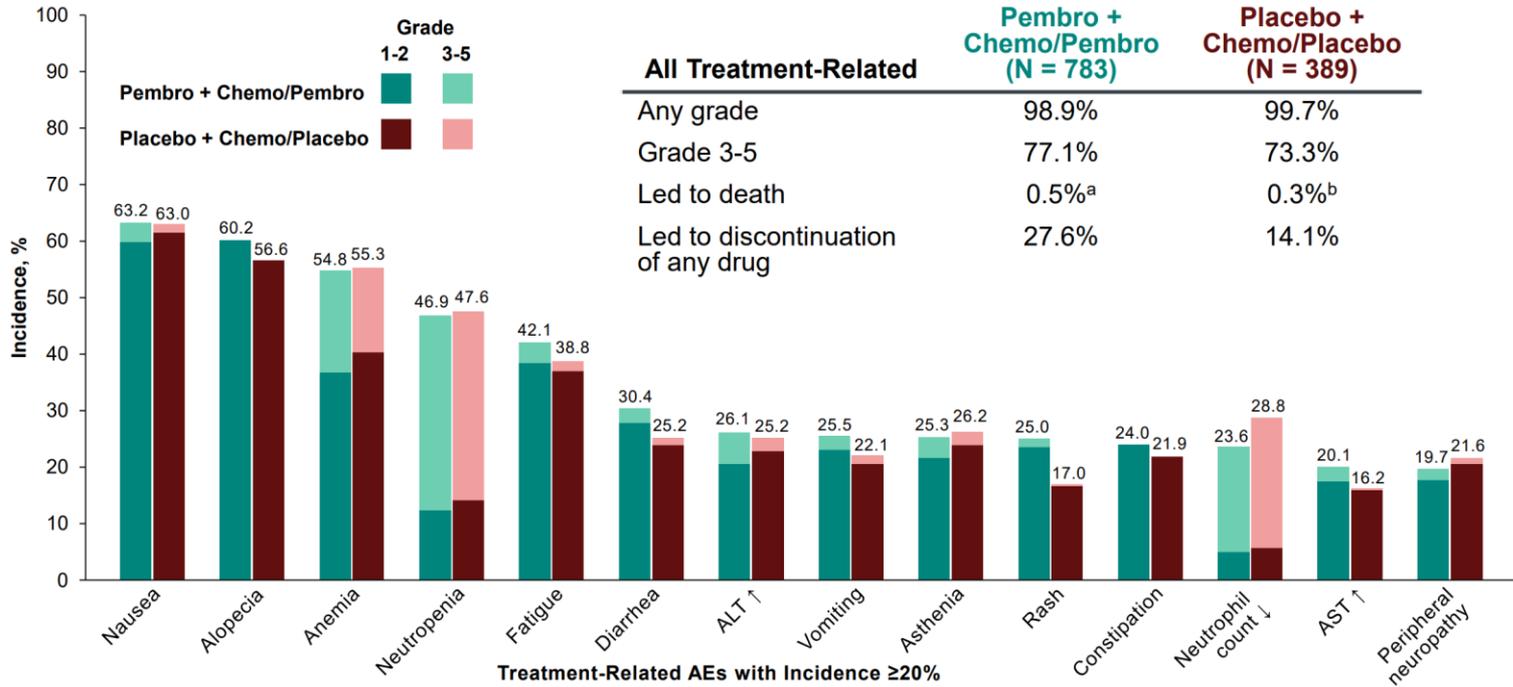
Overall Survival in Patient Subgroups



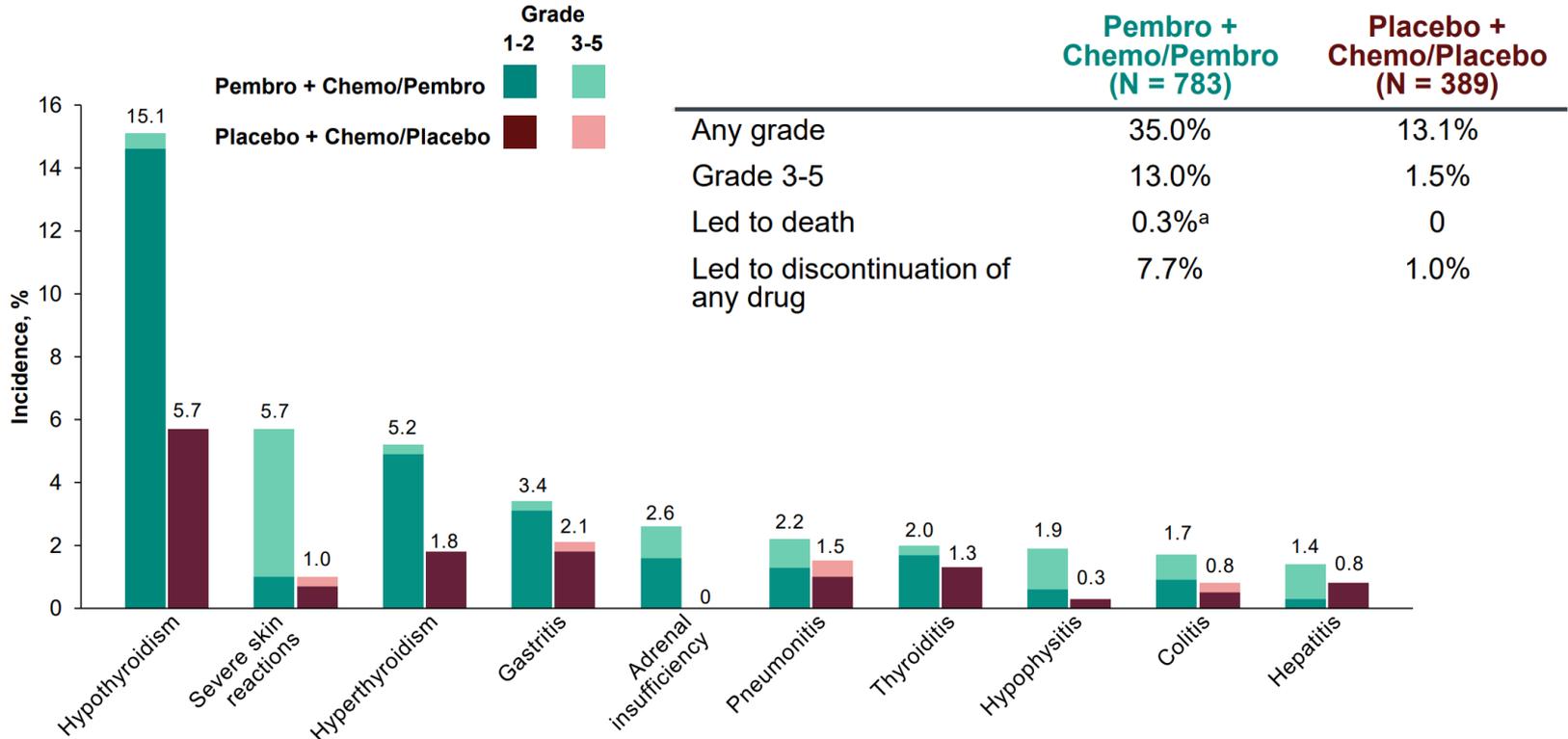
Overall Survival by Pathologic Complete Response (yp T0/Tis ypN0)



Treatment-Related Adverse Events



Immune-Mediated Adverse Events



	Pembro + Chemo/Pembro (N = 783)	Placebo + Chemo/Placebo (N = 389)
Any grade	35.0%	13.1%
Grade 3-5	13.0%	1.5%
Led to death	0.3% ^a	0
Led to discontinuation of any drug	7.7%	1.0%

Immune-Mediated AEs with Incidence ≥10 Patients in Either Treatment Group

Real-world safety and effectiveness of neoadjuvant chemotherapy combination with pembrolizumab in triple-negative breast cancer

Table 3. All-grade adverse events: highest grade per patient (CTCAE v5.0)

Adverse event	Grade 1-2 n (%)	Grade 3-5 n (%)
Fatigue	67 (67)	1 (1)
Nausea	56 (56)	7 (7)
Neutropenia	8 (8)	52 (52)
Anemia	30 (30)	22 (22)
Thyroid dysfunction	29 (29)	0
Thrombocytopenia	9 (9)	21 (21)
Peripheral neuropathy	43 (43)	6 (6)
Rash	24 (24)	6 (6)
Liver function tests elevation	13 (13)	11 (11)
Diarrhea	17 (17)	2 (2)
Isolated troponin increase	17 (17)	0
Hypophysitis	8 (8)	0
Adrenal insufficiency	6 (6)	0
Arthritis	3 (3)	1 (1)
Pneumonitis	2 (2)	0
Hepatitis	2 (2)	8 (8)
Myositis	5 (5)	0
Myocarditis	3 (3)	1 (1)
Sarcoidosis	2 (3)	0
Acute kidney injury	2 (2)	1 (1)
Diabetic ketoacidosis	0	2 (2)

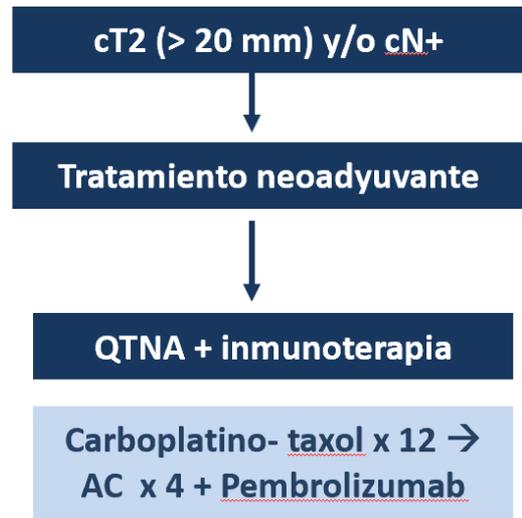
Real-world safety and effectiveness of neoadjuvant chemotherapy combination with pembrolizumab in triple-negative breast cancer

Table 2. Dose modifications and treatment exposure in the neoadjuvant setting

Total number (<i>n</i> = 100)	<i>n</i> (%)
Dose reduction of any drug	50 (50)
All drugs interruption	36 (36)
Dose omissions (≥ 3)	21 (21)
Patients who received >75% of planned dose for paclitaxel–carboplatin	85 (85)
Patients who received >75% of planned dose for epirubicin–cyclophosphamide (<i>n</i> = 82)	78 (95)
Patients who received >75% of planned dose for neoadjuvant pembrolizumab	69 (69)
Early interruption of all treatments for toxicity	35 (35)



La neoadyuvancia en CMTN \geq cT2 y/o cN+

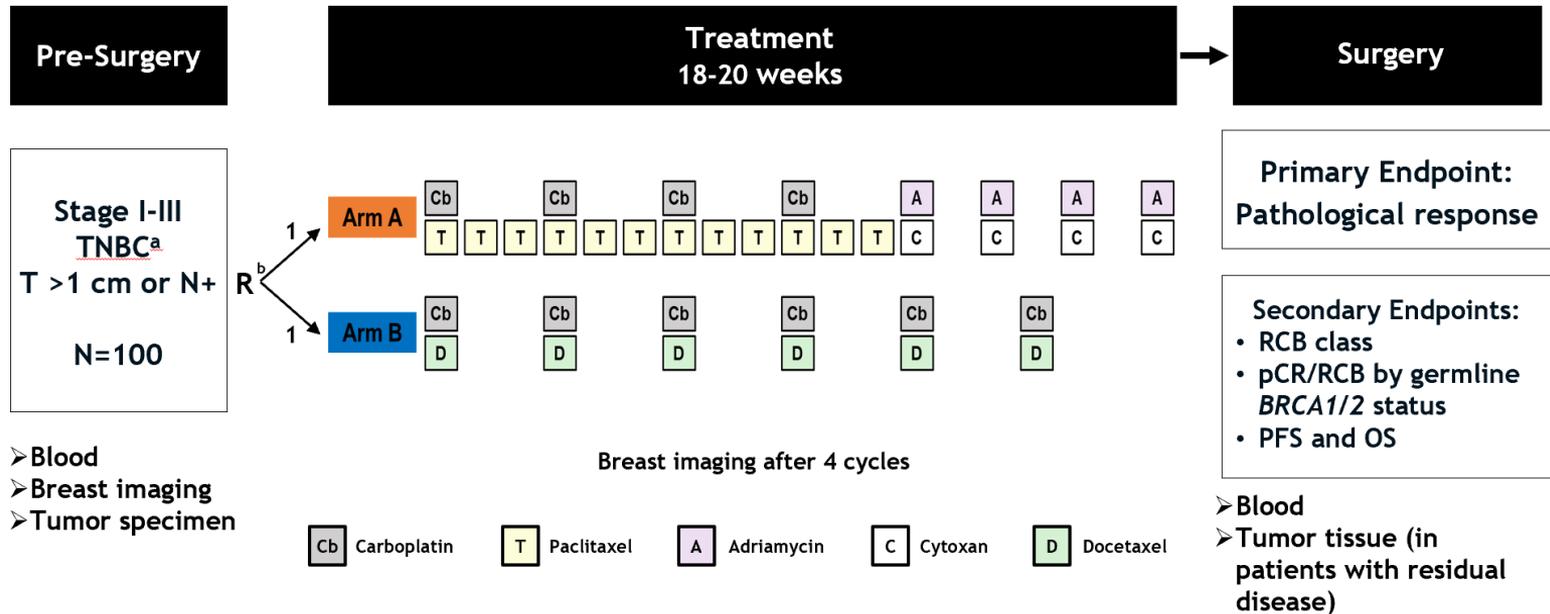


¿Podemos identificar pacientes que no se benefician de pembrolizumab?

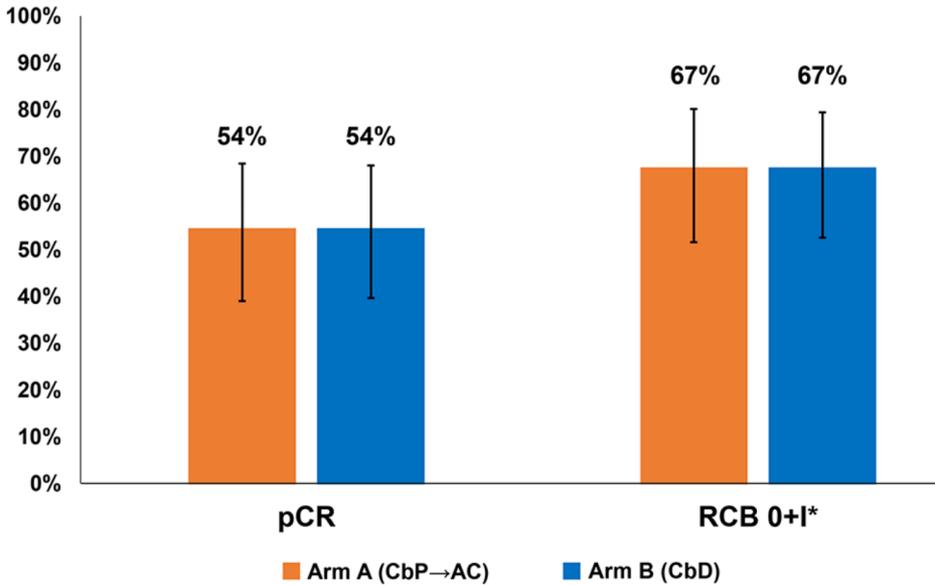
¿Esquemas de QTNA sin antraciclinas?

Esquemas sin antraciclinas: Carbo-Taxol → AC vs TCb

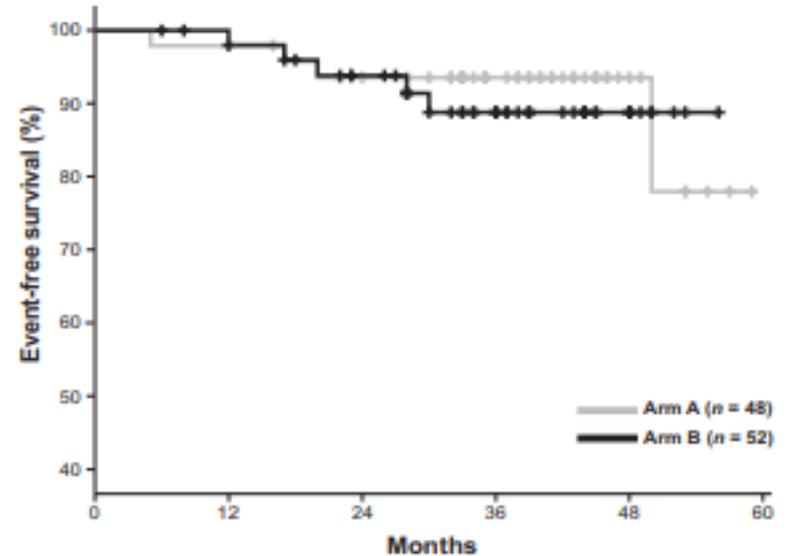
NeoSTOP Study Schema



Esquemas sin antraciclinas: eficacia equiparable, menor toxicidad



Sin diferencias en pCR ni SLE



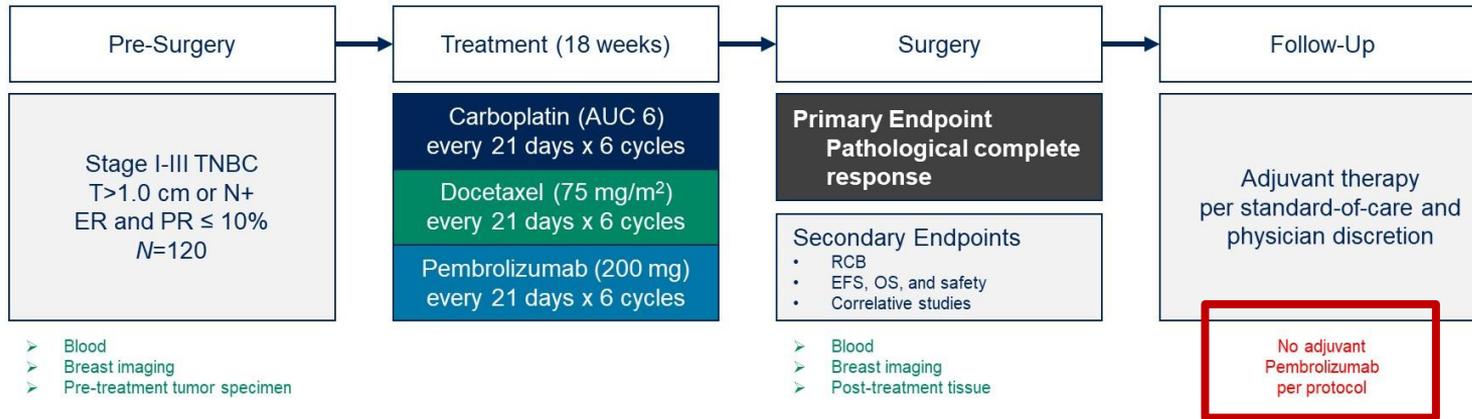
Esquemas sin antraciclinas: eficacia equiparable, menor toxicidad

Grade 3 and 4 Treatment Related Toxicities

Adverse Events	Arm A – N (%)	Arm B – N (%)	p
Anemia	22 (46%)	2 (4%)	0.0001
Arthralgia	0	0	1
Constipation	1 (2%)	0	0.48
Diarrhea	1 (2%)	4 (8%)	0.36
Fatigue	1 (2%)	0	0.48
Febrile neutropenia	9 (19%)	0	0.0001
Hypokalemia	2 (4%)	1 (2%)	0.61
Hyponatremia	2 (4%)	1 (2%)	1
Nail changes	0	0	1
Nausea	1 (2%)	0	0.48
Neutrophil count decrease	29 (60%)	4 (8%)	0.0001
Pain	1 (2%)	1 (2%)	1
Peripheral sensory neuropathy	2 (4%)	0	0.23
Platelet count decrease	8 (17%)	2 (4%)	0.05
Rash	0	2 (4%)	0.50
Sepsis	2 (4%)	0	0.23
Urinary Tract Infection	1 (2%)	0	0.48
Vomiting	0	0	1

AE G3-4 73% vs 21%

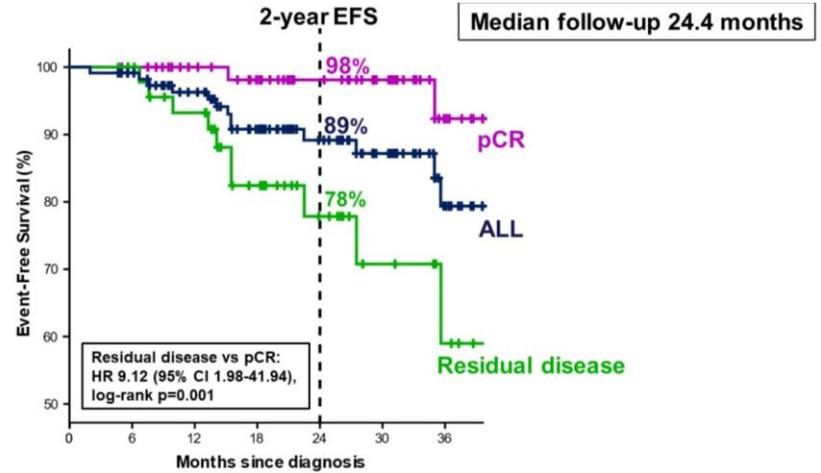
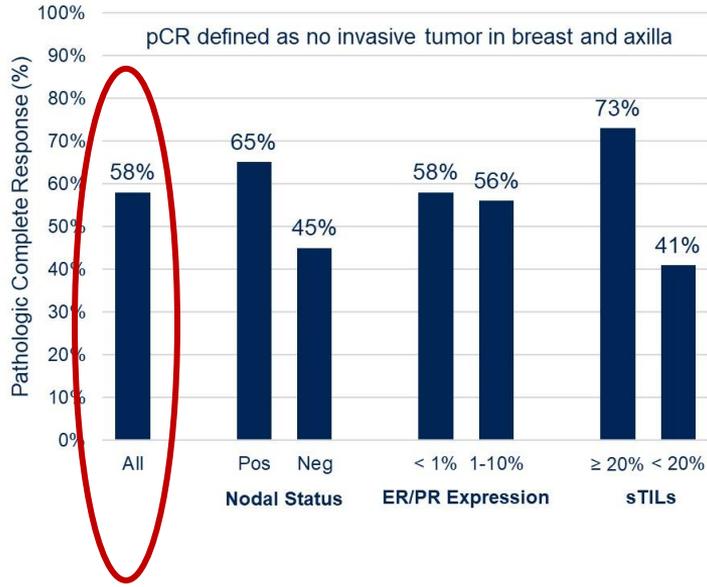
NeoPACT: Neoadjuvant Phase II Study of Pembrolizumab and Carboplatin Plus Docetaxel in Triple-Negative Breast Cancer (NCT03639948)



Sharma, Stecklein et al ASCO 2022 (Abstract #513)

THE UNIVERSITY OF KANSAS
CANCER CENTER

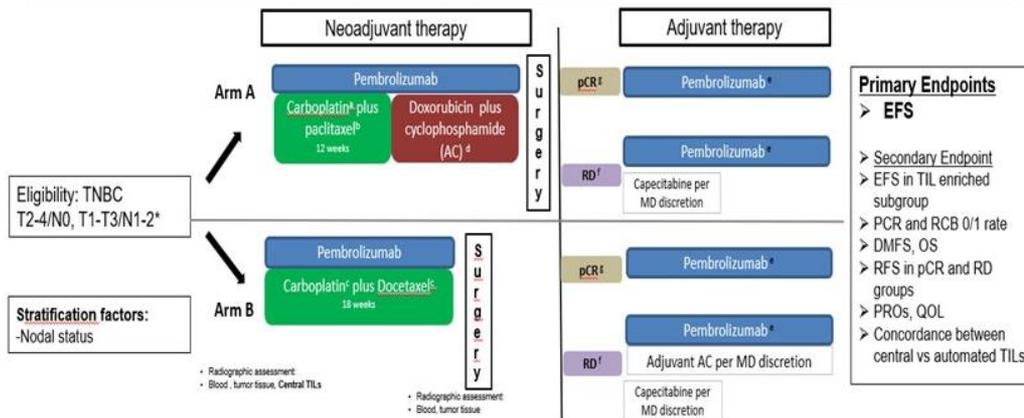
NeoPACT



Shorter anthracycline-free Chemoimmunotherapy Adapted to pathological Response in Early TNBC (SCARLET)

Randomized non-inferiority trial

Hypothesis: In patients with early stage TNBC, carboplatin-taxane chemoimmunotherapy is non-inferior to taxane-platinum-anthracycline-based chemoimmunotherapy



*T4/N+ , any N3 and inflammatory breast cancer excluded

*Carboplatin QW or Q 3W, [§]Paclitaxel QW.

† Carboplatin Q3W, Docetaxel Q 3W, [¶] AC every 2 or 3 weeks

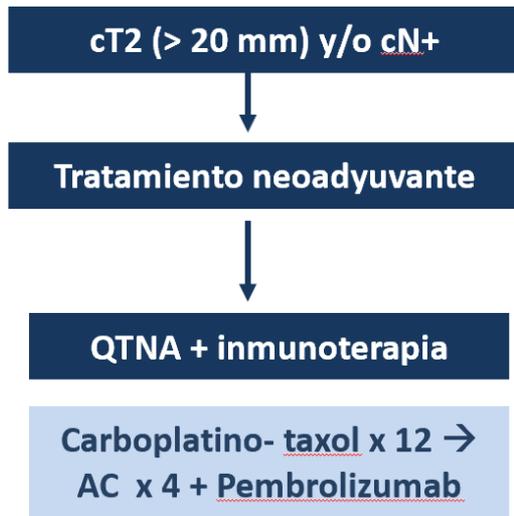
* Total duration of neo plus adjuvant pembrolizumab = 51 weeks

[†] Olaparib per MD discretion in gBRCA allowed

[§] No Further Adjuvant chemotherapy.

PI: P. Sharma and Z. Mitri

La neoadyuvancia en CMTN \geq cT2 y/o cN+



¿Podemos identificar pacientes que no se benefician de pembrolizumab?



¿Valor de pembrolizumab adyuvante si pCR?

¿Esquemas de QTNA sin antraciclinas?

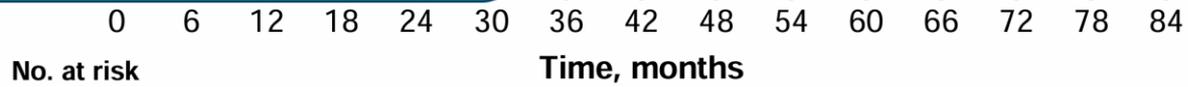
Overall Survival by Pathologic Complete Response (yp T0/Tis ypN0)



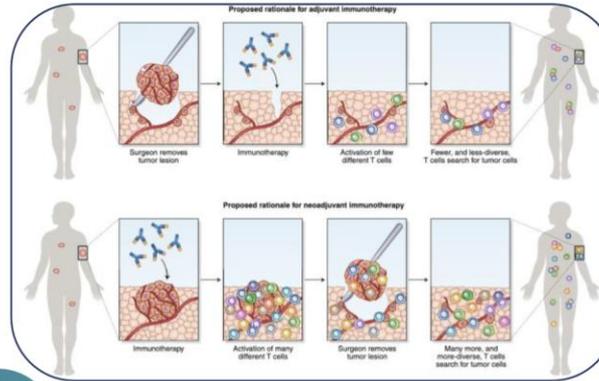
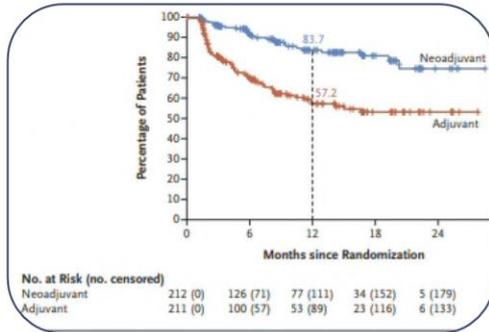
Tratamiento estándar: PEMBROLIZUMAB adyuvante x 9 ciclos

¿Es el beneficio por alcanzar una mayor tasa de pCR?

¿Es un efecto del pembrolizumab adyuvante o es un efecto del tratamiento neoadyuvante?



2. Neoadjuvant vs adjuvant part: contribution of components



REGULATORY NEWS

ODAC vote will likely lead to three-arm and four-arm designs—and pragmatic trials—for perioperative indications

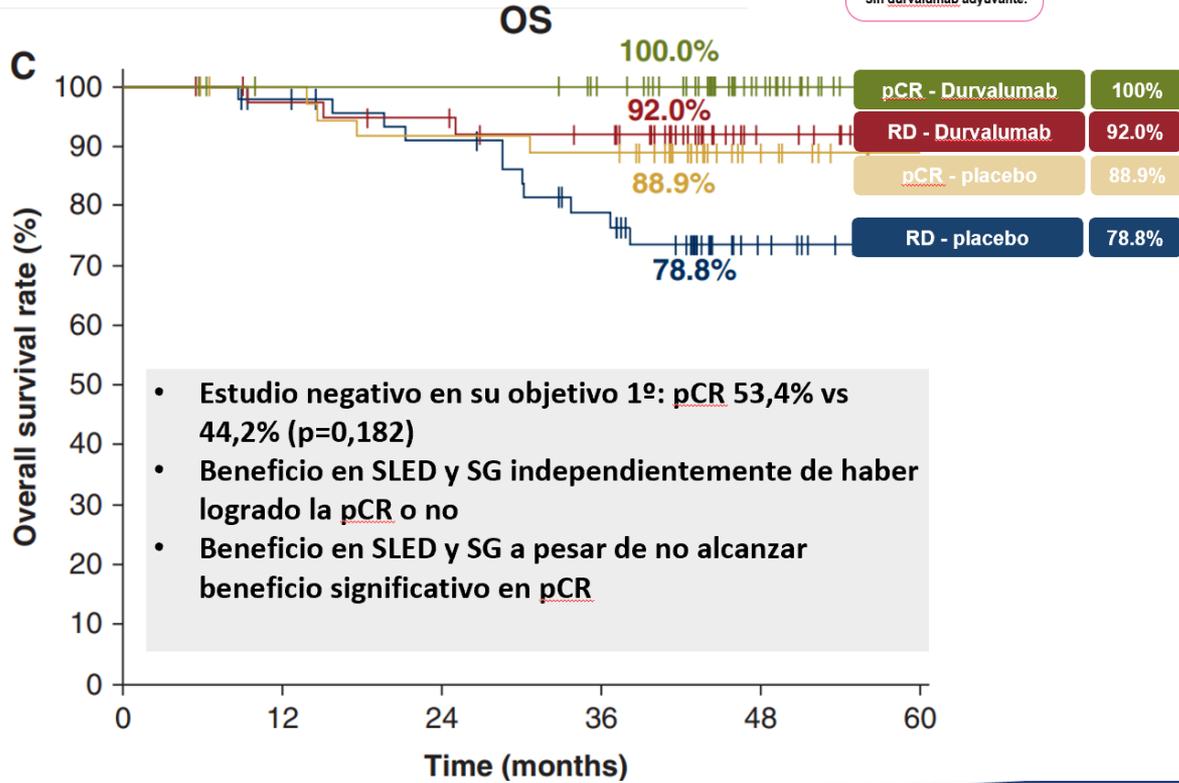
By Jacquelyn Cobb and Paul Goldberg

The FDA Oncologic Drugs Advisory Committee July 25 voted unanimously to set more rigorous standards for new trials for approval of perioperative indications of cancer drugs.

2 academic non-inferiority trials for pts with pCR. Adjuvant pembro vs no adjuvant treatment

- 1) O_pt_imICE-pCR, 270/1956 recruited
PI: Sara Tolaney (DFCI, USA)
- 2) OPT-PEMBRO, n=2454, start Q4 '24
PI: Joana Ribeiro (IGR, France)

¿Efecto en SG del ICI adyuvante post-neoadyuvante?





34% irAEs ocurrieron durante la fase adyuvante

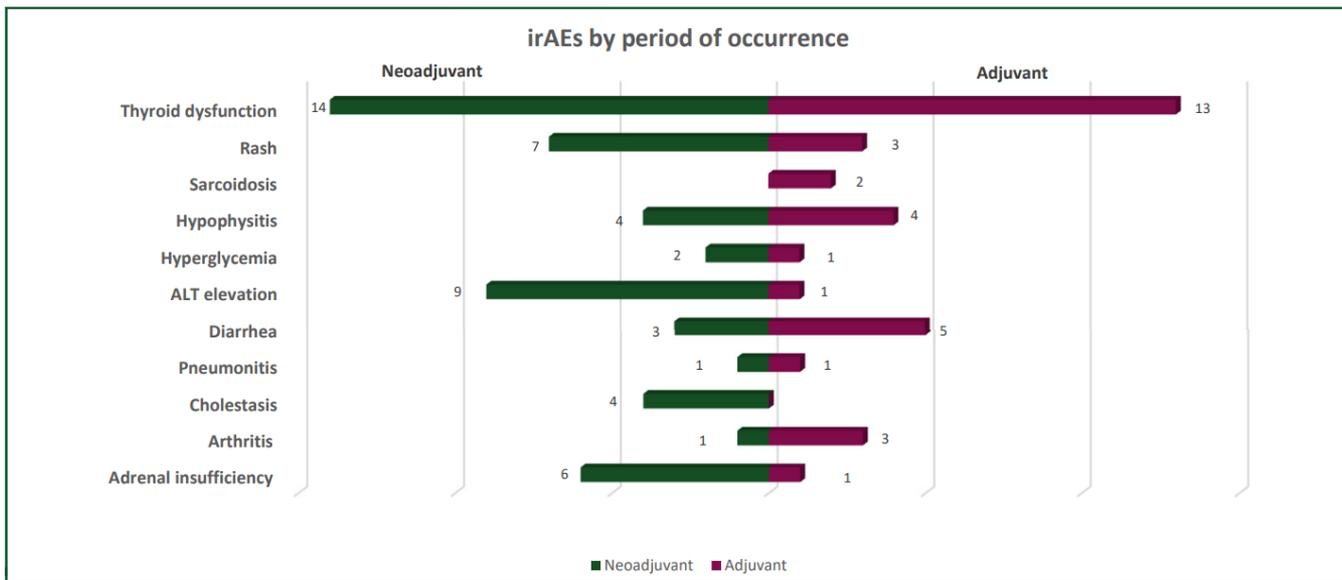
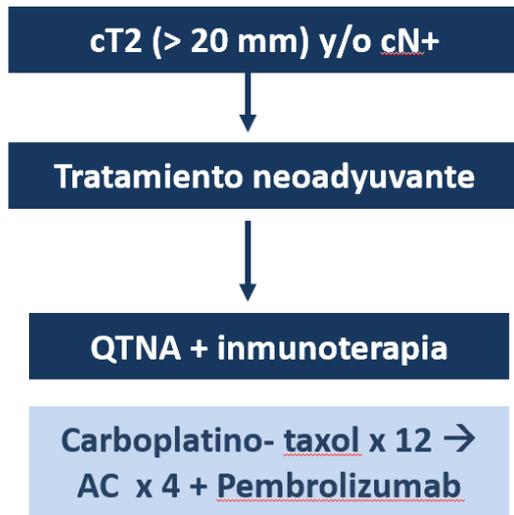


Figure 2. irAEs by period of occurrence. Comparison of irAEs occurring in two periods: the neoadjuvant period (left) and the adjuvant period (right). Numbers and bar sizes represent the count of these adverse events in each respective period. ALT, alanine aminotransferase; irAEs, immune-related adverse events.

La neoadyuvancia en CMTN \geq cT2 y/o cN+



¿Podemos identificar pacientes que no se benefician de pembrolizumab?

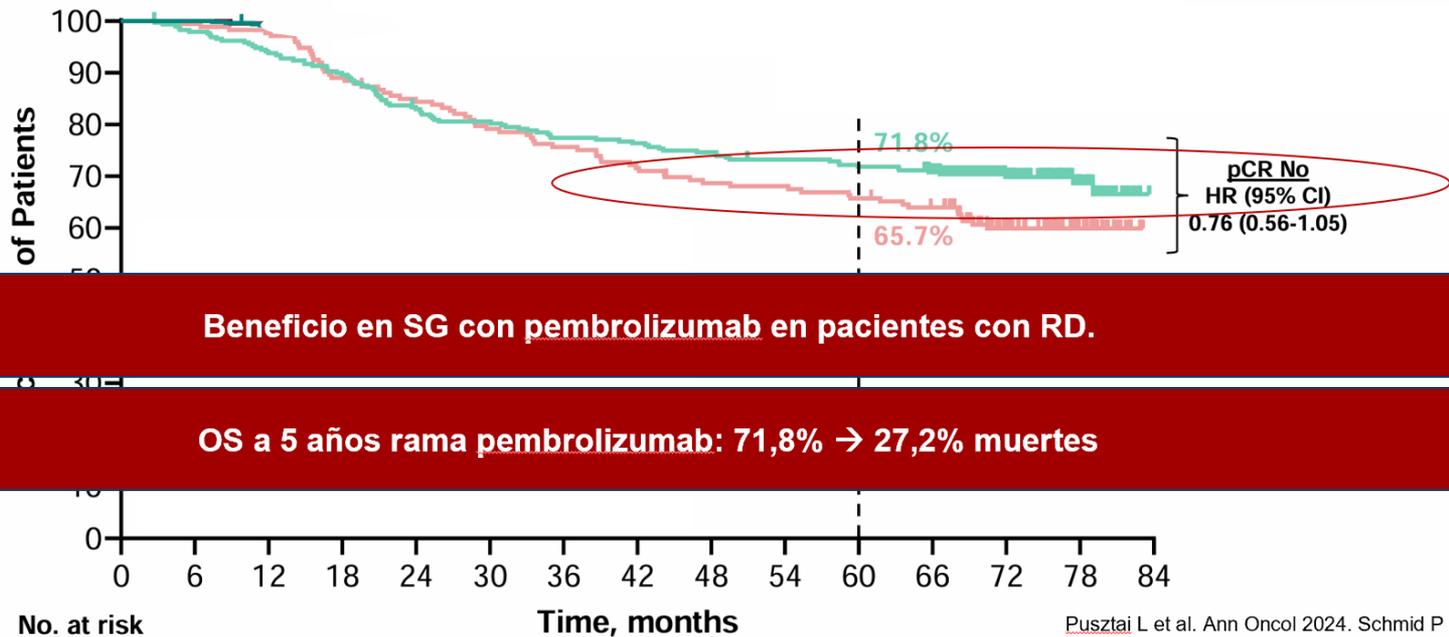
¿Esquemas de QTNA sin antraciclinas?

¿Cómo podemos mejorar el pronóstico de las pacientes con RD?

¿Valor de pembrolizumab adyuvante si pCR?

Enfermedad residual

Overall Survival by Pathologic Complete Response (yp T0/Tis ypN0)



Beneficio en SG con pembrolizumab en pacientes con RD.

OS a 5 años rama pembrolizumab: 71,8% → 27,2% muertes

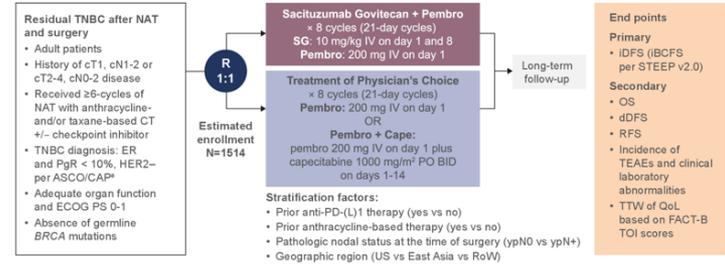
Estrategias de combinación:
CAPECITABINA + PEMBROLIZUMAB

ADCs

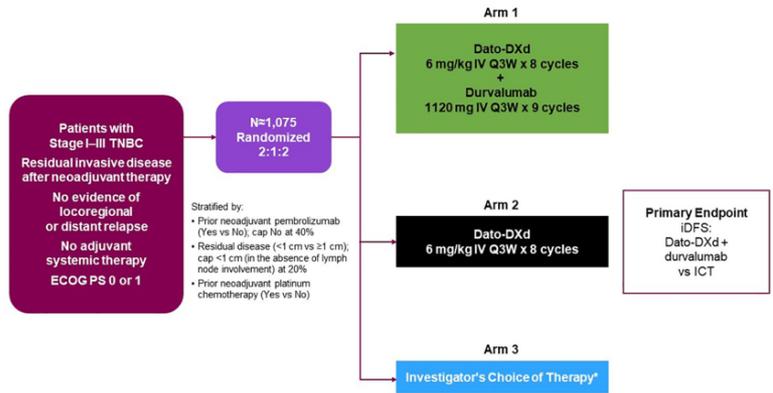
iPARP

ASCENT-05/OptimICE-RD

Figure 2. An open-label, global, multicenter, randomized phase 3 study of adjuvant SG combined with pembro versus TPC in patients with TNBC and RD after neoadjuvant therapy and surgery (NCT05633654)



TROPION-Breast03



CONCLUSIONES

- QT + pembrolizumab aumenta la pCR, SLE y SG de las pacientes con CMTN
- Nuevo estándar de tratamiento en CMTN \geq cT2 y/o N+
- Varias preguntas aún sin responder:
 - ¿Podemos simplificar el esqueleto de QT?
 - Esquemas sin antraciclinas podrían ser una opción alternativa al esquema KEYNOTE
 - ¿Es necesario el pembrolizumab adyuvante?
 - Pendientes del OPTIMICE-pCR
- Necesidad de mejorar el pronóstico de las pacientes con enfermedad residual extensa tras QTNA-ICI