



ACTUALIZACIÓN EN
URO-ONCOLOGÍA:
UPDATE 2024

Madrid, 28 de febrero de 2024

INMUNOTERAPIA EN EL ESCENARIO PERIOPERATORIO DEL CÁNCER DE VEJIGA MÚSCULO-INVASIVO

ÁLVARO PINTO

Servicio de Oncología Médica, Hospital Universitario La Paz – IdiPAZ, Madrid

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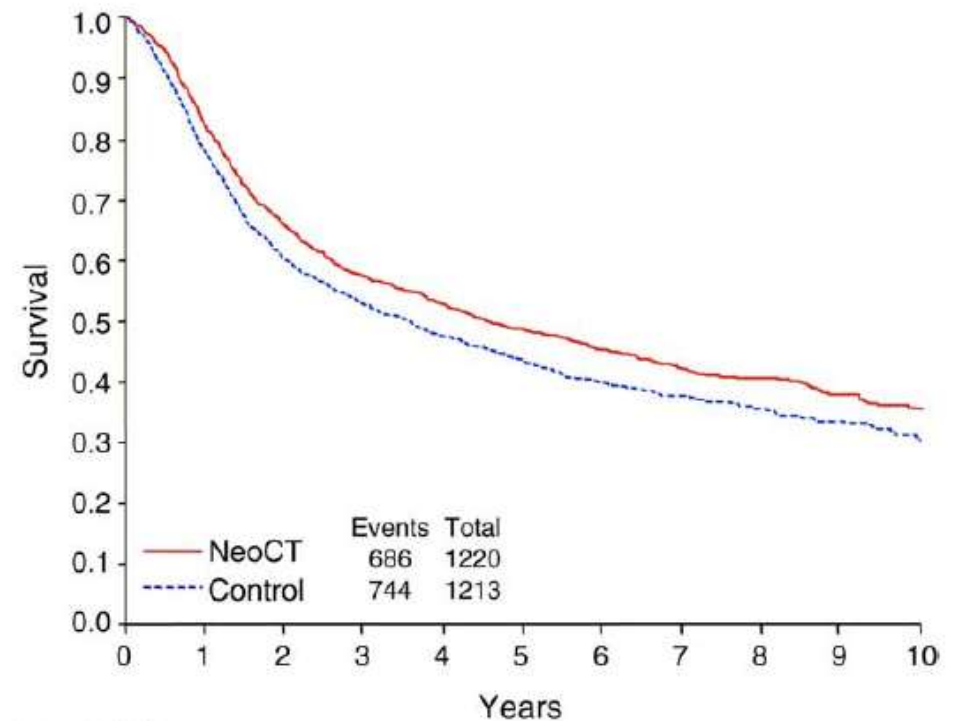
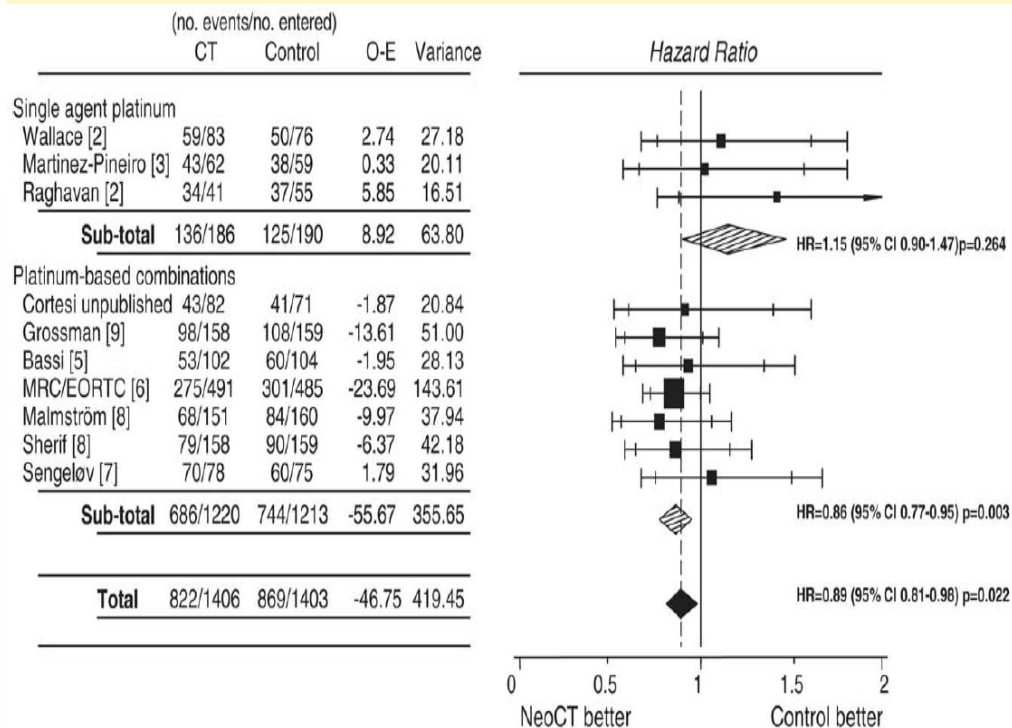
UPDATE 2024

DISCLOSURES

- **Research funding:** Pfizer, BMS
- **Advisory boards:** Pfizer, Novartis, Ipsen, BMS, Janssen, Astellas, Sanofi, Bayer, Clovis, Roche, MSD, Pierre Fabre, Merck
- **Clinical trial payments:** Pfizer, Bayer, Janssen, MSD, Clovis, Pharmacyclics, BMS, Sanofi, Astra Zeneca, Roche, Eisai, Aveo
- **Travel arrangements:** Janssen, Roche, Pfizer, BMS, Ipsen, MSD

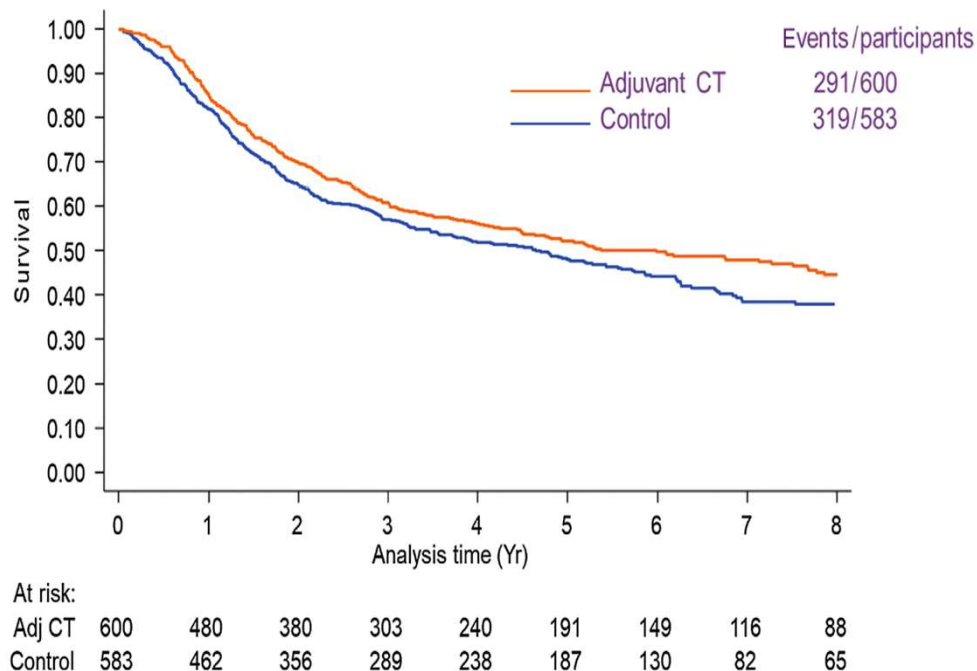
UN ESTÁNDAR DURANTE MÁS DE 20 AÑOS

Neoadjuvant Chemotherapy in Invasive Bladder Cancer: Update of a Systematic Review and Meta-Analysis of Individual Patient Data



UNA “OPCIÓN” USADA EN PRÁCTICA CLÍNICA

Adjuvant Chemotherapy for Muscle-invasive Bladder Cancer: A Systematic Review and Meta-analysis of Individual Participant Data from Randomised Controlled Trials

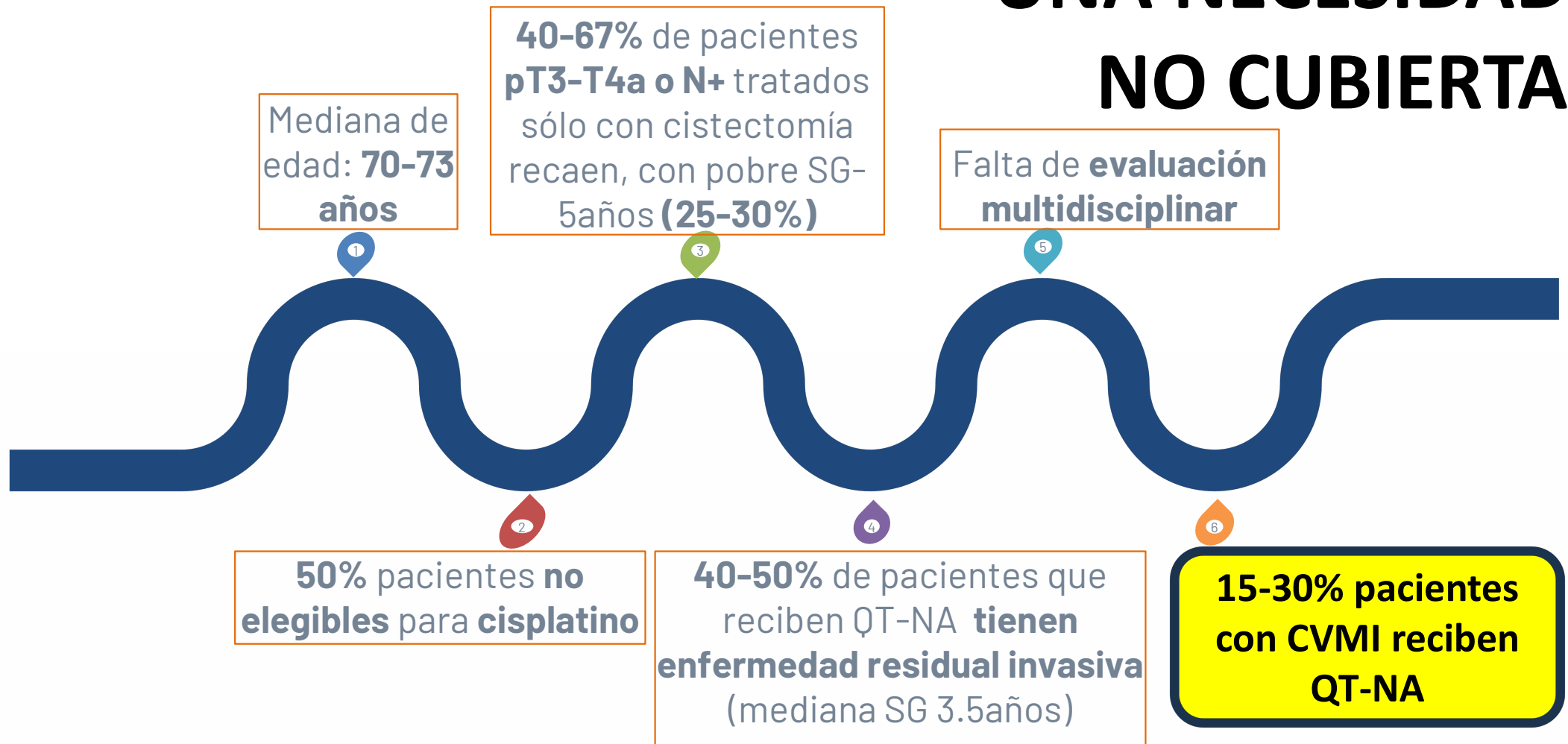


SPECIAL ARTICLE

Bladder cancer: ESMO Clinical Practice Guideline for diagnosis, treatment and follow-up[☆]

- Three to four cycles of cisplatin-based neoadjuvant ChT should be given for MIBC [I, A]. Cross-sectional imaging should occur after ChT before RC [IV, B].
- There is weak evidence to support the use of adjuvant cisplatin-based ChT in patients who did not receive neoadjuvant therapy [II, B]. Neoadjuvant ChT is preferred.

UNA NECESIDAD NO CUBIERTA



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¿CÓMO PODEMOS MEJORAR?

1

MEJORES TRATAMIENTOS
SISTÉMICOS

NUEVOS
BIOMARCADORES

2

3

CAMBIO DE PARADIGMA

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MEJORES TRATAMIENTOS SISTÉMICOS

- CheckMate 274 is a phase 3, randomized, double-blind, multicenter study of adjuvant nivolumab versus placebo in patients with high-risk MIUC

N = 709

Key inclusion criteria

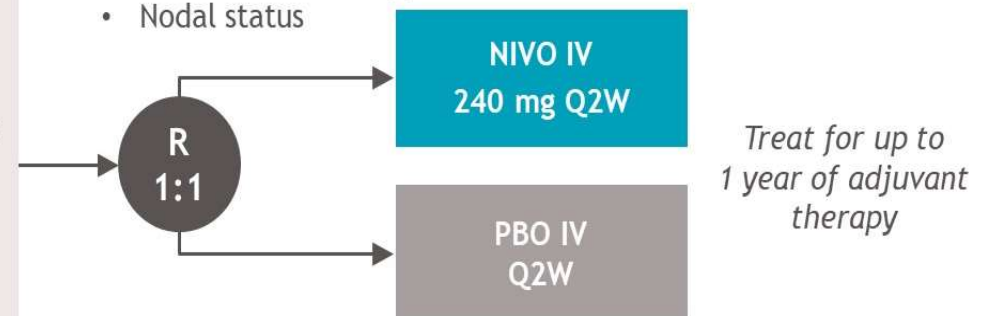
- Patients with ypT2-ypT4a or ypN+ MIUC who had neoadjuvant cisplatin chemotherapy
- Patients with pT3-pT4a or pN+ MIUC without prior neoadjuvant cisplatin chemotherapy and not eligible/refuse adjuvant cisplatin chemotherapy
- Radical surgery within the past 120 days
- Disease-free status within 4 weeks of dosing

Minimum follow-up, 5.9 months

Median follow-up in ITT population, 20.9 months (NIVO) and 19.5 months (PBO)

Stratification factors

- PD-L1 status (<1% vs $\geq 1\%$)^a
- Prior neoadjuvant cisplatin-based chemotherapy
- Nodal status



Primary endpoints: DFS in ITT population and DFS in all randomized patients with tumor PD-L1 $\geq 1\%$

Secondary endpoints: NUTRFS, DSS, and OS^b

Exploratory endpoints included: DMFS, safety, HRQoL

1 MEJORES TRATAMIENTOS SISTÉMICOS

CheckMate 274

Disease-free survival (primary endpoint)



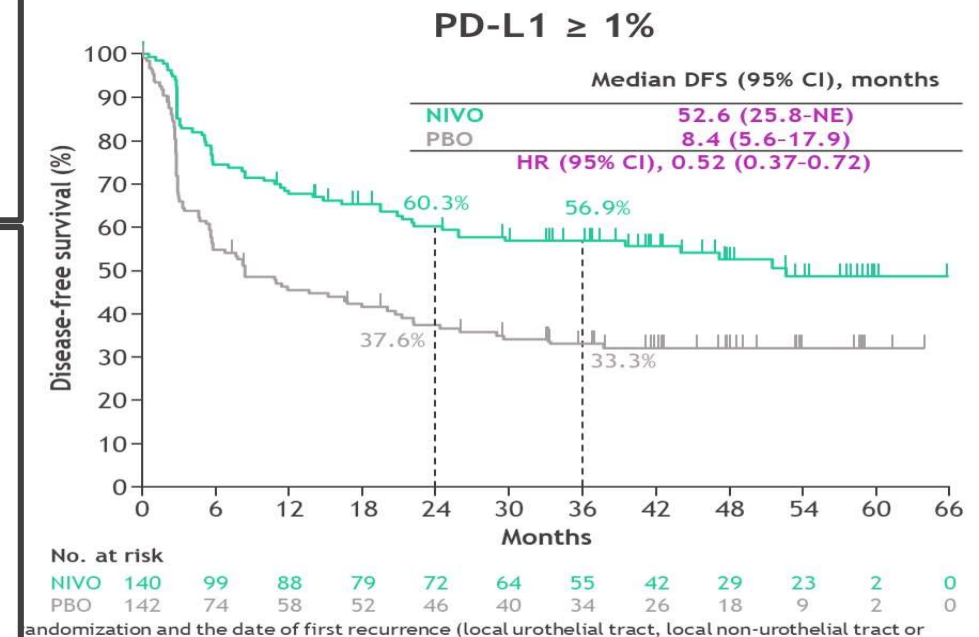
EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Adjuvant treatment of urothelial carcinoma

OPDIVO as monotherapy is indicated for the adjuvant treatment of adults with muscle invasive urothelial carcinoma (MIUC) with tumour cell PD-L1 expression $\geq 1\%$, who are at high risk of recurrence after undergoing radical resection of MIUC (see section 5.1).

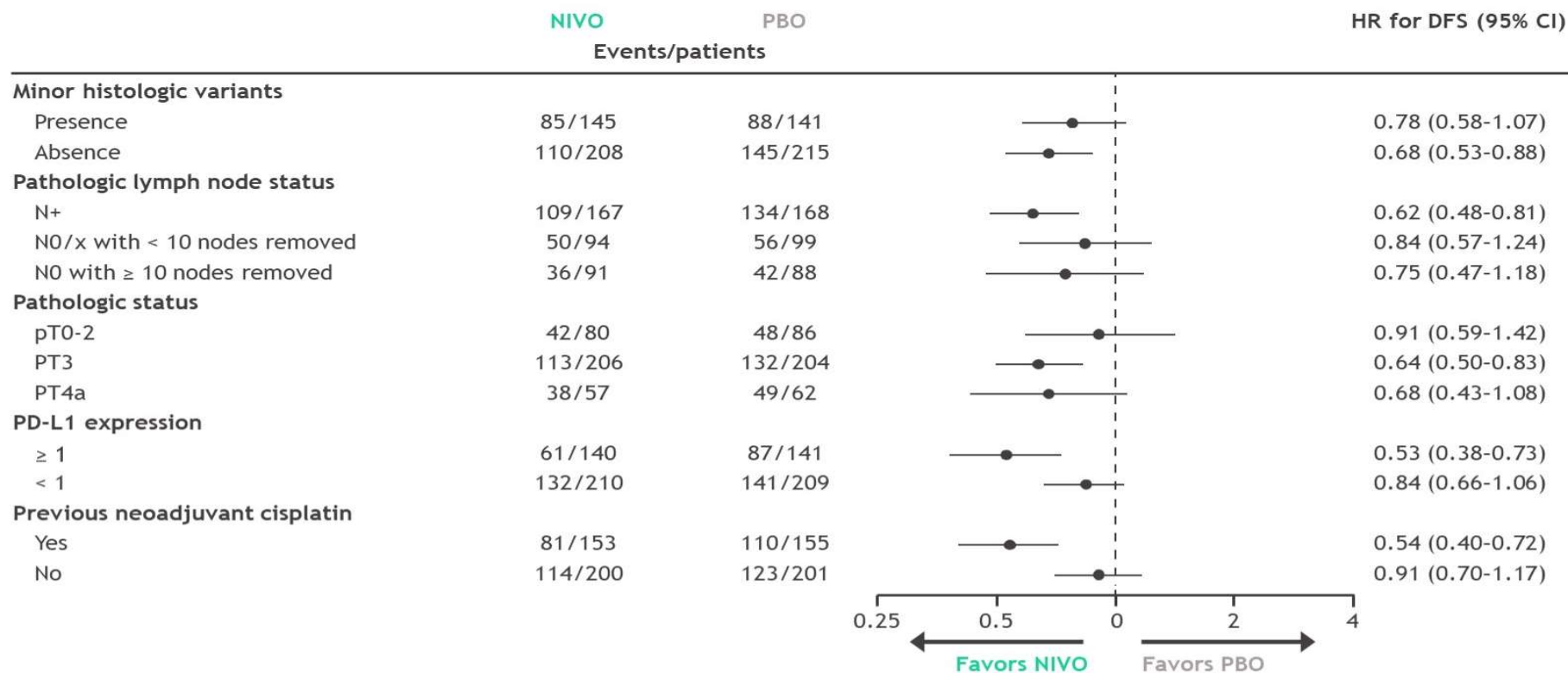
NE, not estimable.

versus PBO both in the ITT and tumor PD-L1

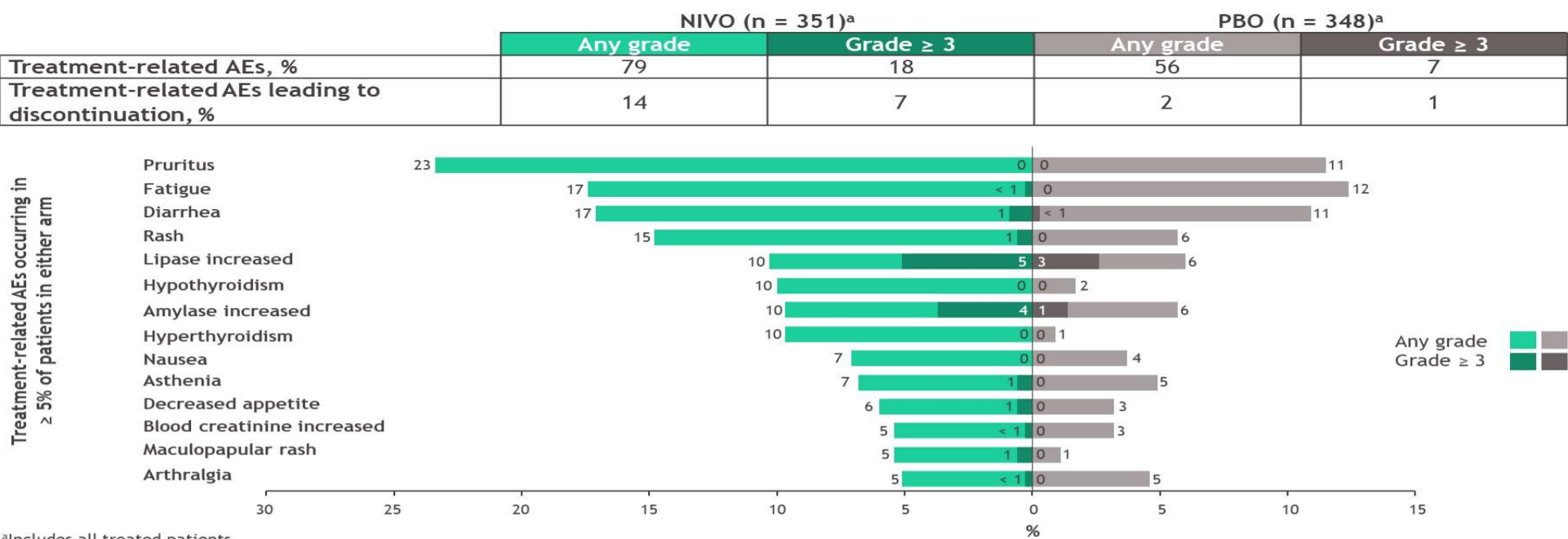




Disease-free survival by subgroup in the ITT population



Safety summary in all treated patients



^aIncludes all treated patients.
There were 3 treatment-related deaths in the NIVO arm (2 instances of pneumonitis and 1 instance of bowel perforation).
Includes events reported between the first dose and 30 days after the last dose of study therapy.
Minimum follow-up in the ITT population, 31.6 months.
AE, adverse event.

Summary of efficacy outcomes over time

ITT

	NIVO (N = 353)	PBO (N = 356)	NIVO (N = 353)	PBO (N = 356)	NIVO (N = 353)	PBO (N = 356)
Minimum follow-up in the ITT population, months	31.6		11.0 ¹		5.9 ²	
Median DFS, months	22.0	10.9	22.0	10.9	20.8	10.8
DFS HR (95% CI)	0.71 (0.58-0.86)		0.70 (0.57-0.85)		0.70 (0.55-0.90) ^a	
Median NUTRFS, months	25.9	13.7	26.0	13.7	22.9	13.7
NUTRFS HR (95% CI)	0.72 (0.59-0.88)		0.71 (0.58-0.88)		0.72 (0.59-0.89)	
Median DMFS, months	47.1	28.7	41.1	29.2	40.5	29.5
DMFS HR (95% CI)	0.74 (0.60-0.92)		0.73 (0.58-0.92)		0.75 (0.59-0.94)	

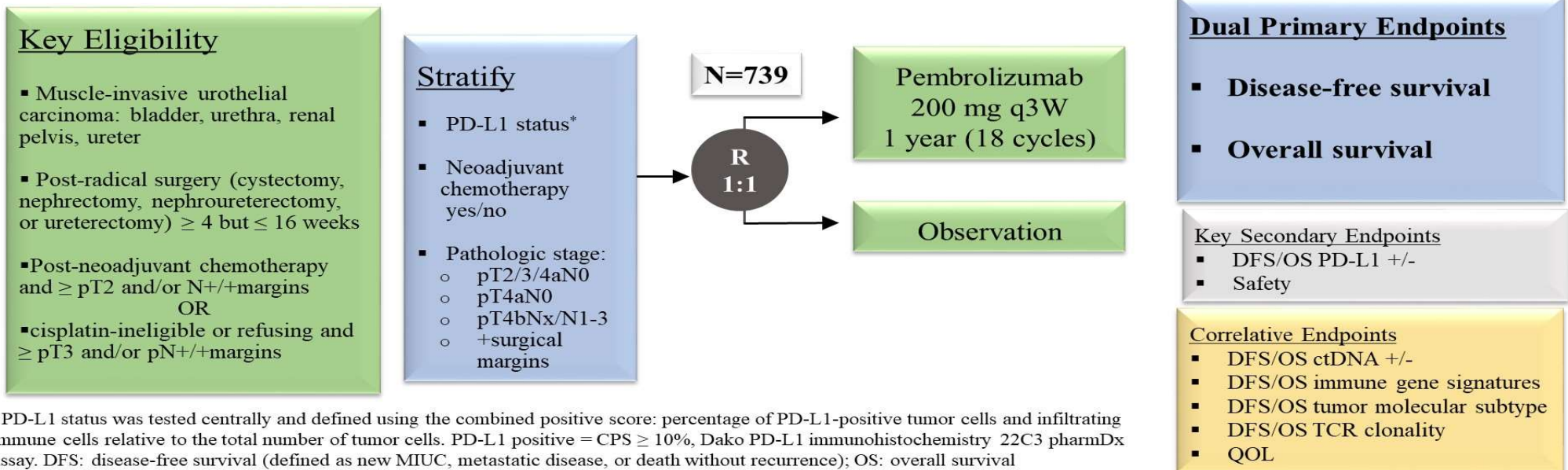
PD-L1 ≥ 1%

	NIVO (N = 140)	PBO (N = 142)	NIVO (N = 140)	PBO (N = 142)	NIVO (N = 140)	PBO (N = 142)
Minimum follow-up in the ITT population, months	31.6		11.0 ¹		5.9 ²	
Median DFS, months	52.6	8.4	NR	8.4	NR	8.4
DFS HR (95% CI)	0.52 (0.37-0.72)		0.53 (0.38-0.75)		0.55 (0.35-0.85) ^b	
Median NUTRFS, months	52.6	8.4	NR	10.8	NR	10.8
NUTRFS HR (95% CI)	0.53 (0.38-0.74)		0.54 (0.39-0.77)		0.55 (0.39-0.79)	
Median DMFS, months	NR	20.7	NR	20.7	NR	21.2
DMFS HR (95% CI)	0.58 (0.40-0.84)		0.60 (0.41-0.88)		0.61 (0.42-0.90)	

A031501 AMBASSADOR: Study Design

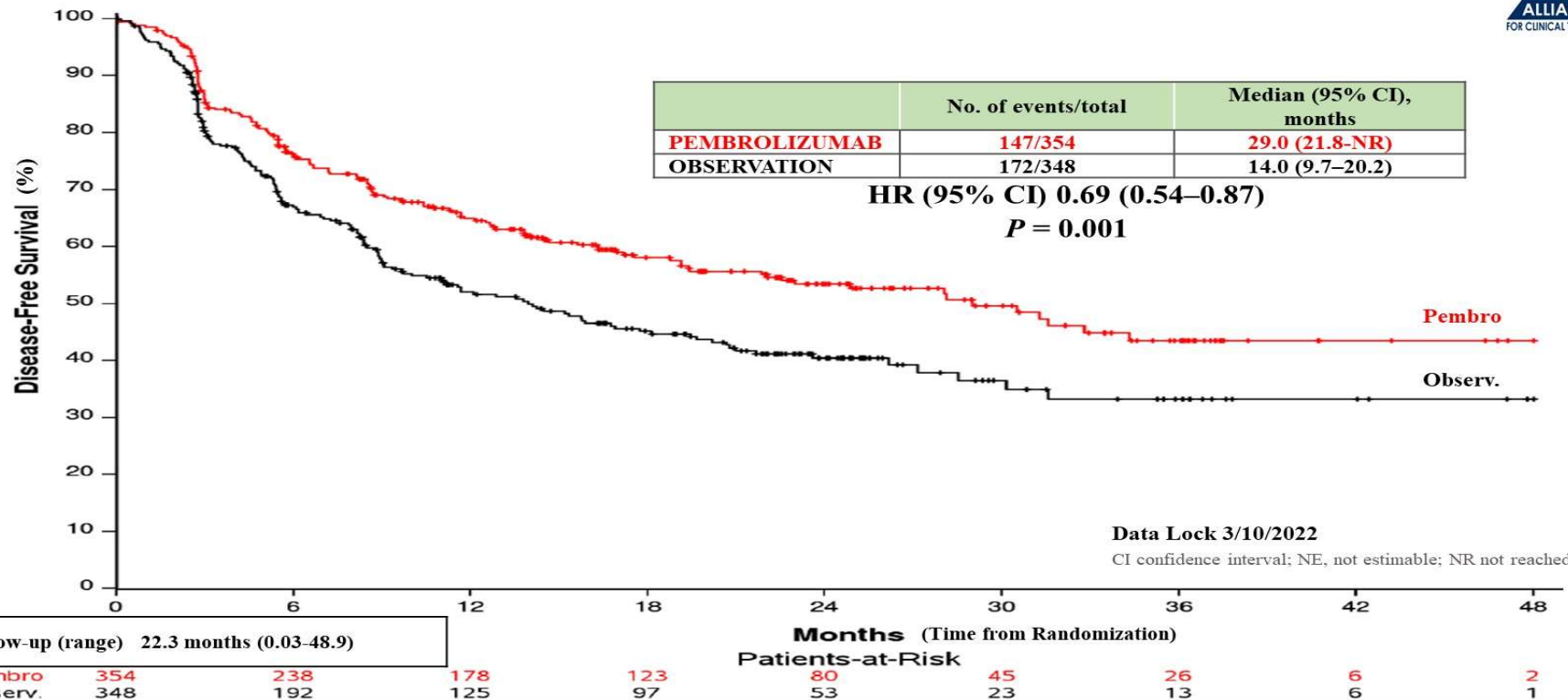
Phase 3 randomized, open label, multicenter study of adjuvant pembrolizumab vs observation in patients with high-risk muscle-invasive urothelial carcinoma (MIUC)

NCT03244384

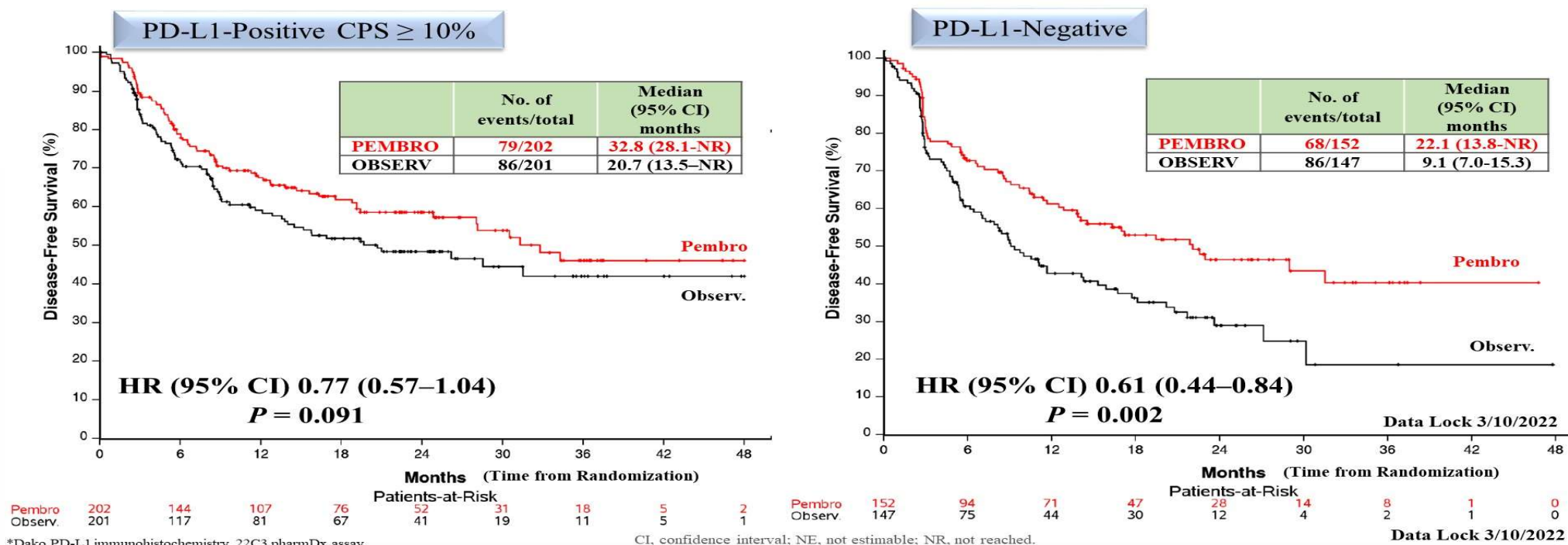


*PD-L1 status was tested centrally and defined using the combined positive score: percentage of PD-L1-positive tumor cells and infiltrating immune cells relative to the total number of tumor cells. PD-L1 positive = CPS $\geq 10\%$, Dako PD-L1 immunohistochemistry 22C3 pharmDx assay. DFS: disease-free survival (defined as new MIUC, metastatic disease, or death without recurrence); OS: overall survival

A031501 AMBASSADOR: Disease-Free Survival (ITT)



A031501 AMBASSADOR: Disease-Free Survival by PD-L1* Status



*Dako PD-L1 immunohistochemistry 22C3 pharmDx assay

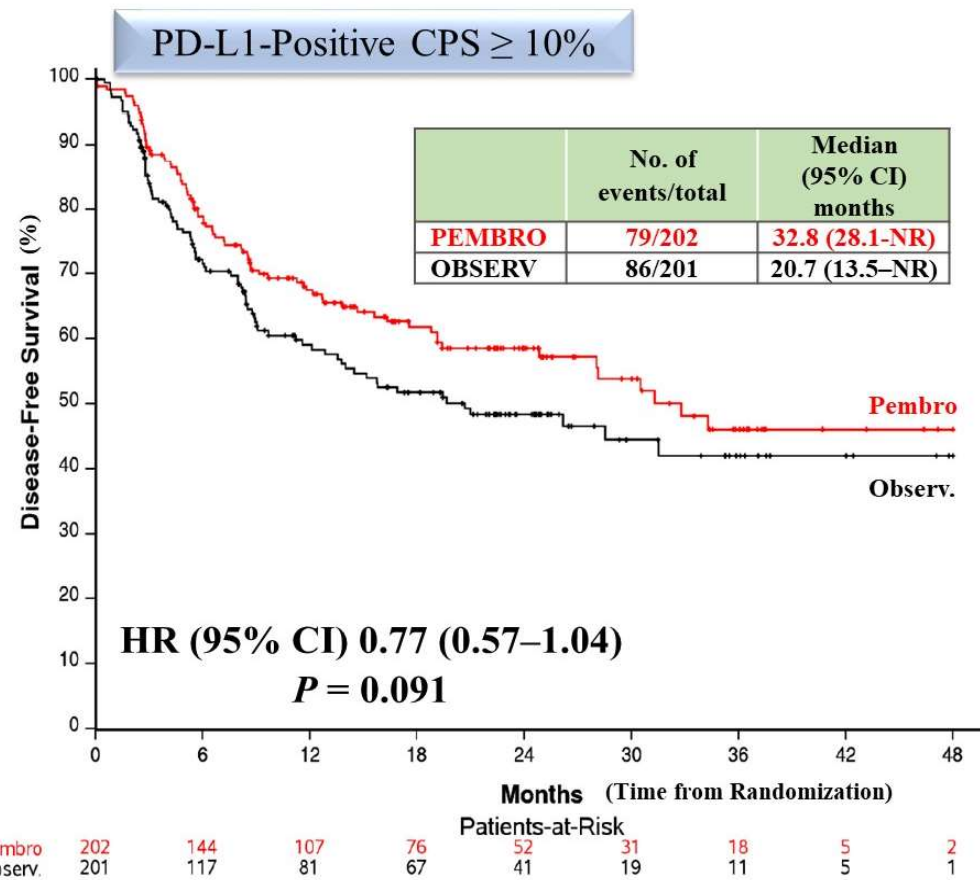
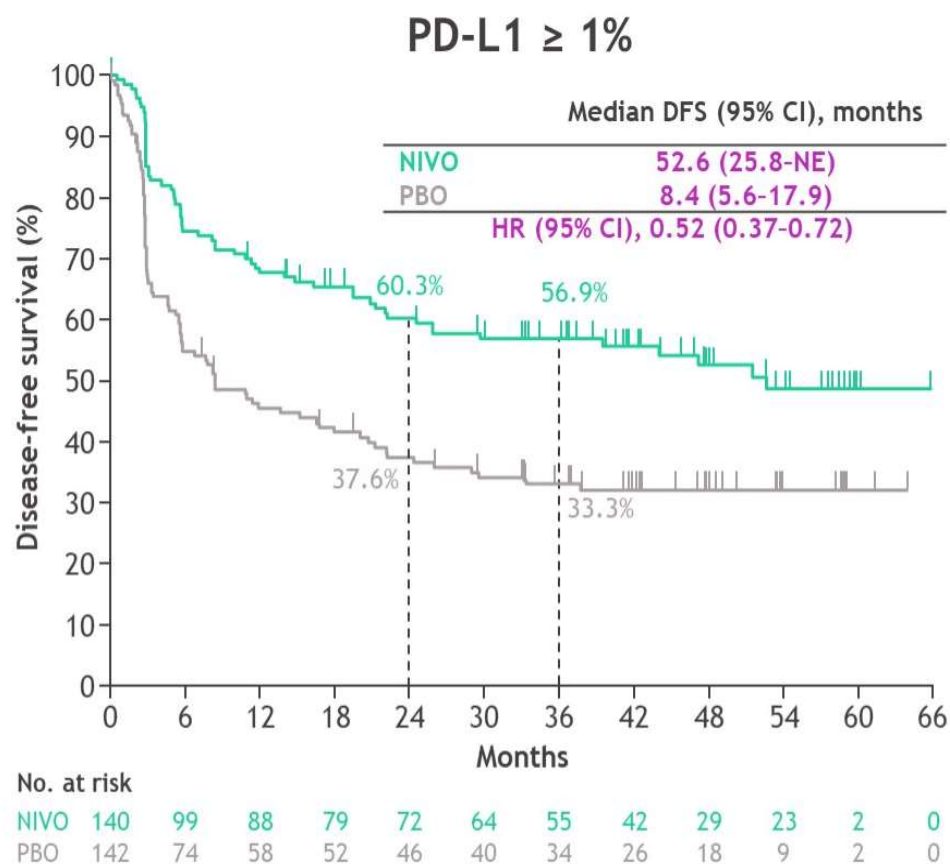
CI, confidence interval; NE, not estimable; NR, not reached.

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MEJORES TRATAMIENTOS
SISTÉMICOS



Galsky MD et al. ASCO GU 2023; Apolo A et al. ASCO GU 2024

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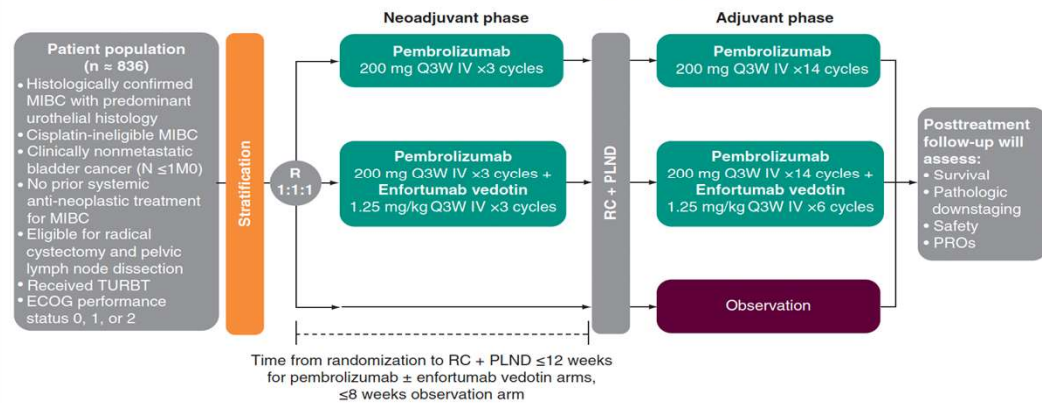
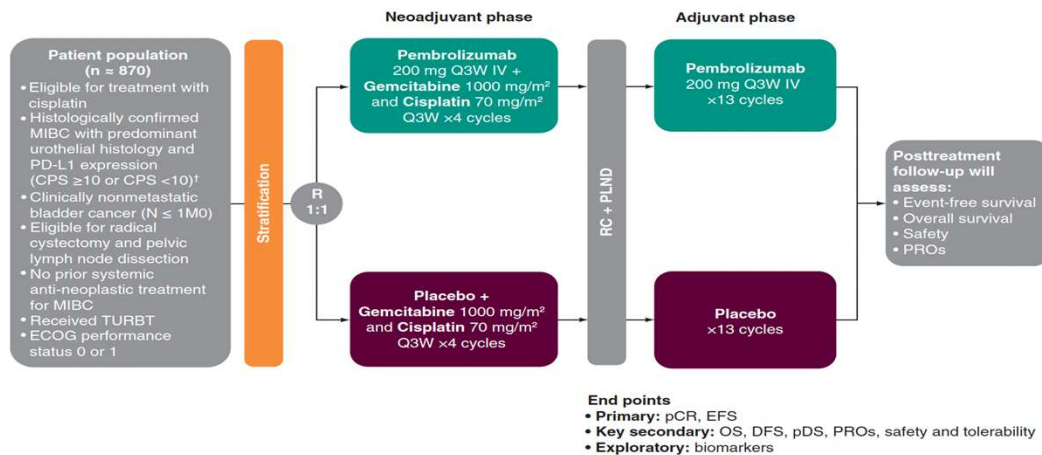
	NIVO	NIVO (PLACEBO)	PEMBRO	PEMBRO (OBS)
<i>PFS ITT</i>	22	10,9	29	14
<i>PFS PD-L1+</i>	52,6	8,4	32,8	20,7
<i>PFS PD-L1-</i>			22,1	9,1



- Diferentes fármacos (Nivo vs Pembro)
- Diferente definición de PD-L1+ (TC>1% vs CPS>10%)
- Diferente población
- Diferente brazo control (placebo vs observación)
- Estudio de registro vs grupo cooperativo

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Eligibility at randomization:

- MIBC cT2*-T4aN0-1M0
- Ineligible for cisplatin:
- CrCl < 60 ≥ 30 ml/min
- Hearing loss ≥ 2
- Peripheral neuropathy ≥ 2
- ECOG 0-2

Stratification:

PD-L1 status
T2N0 vs T3-4aN0 vs T2-4aN1

Co-primary Endpoints:

pCR rate D+T+EV
EFS D+T+EV

Key Secondary Endpoints:

pCR rate D+EV
EFS D+EV
OS
Disease-free survival
Pathologic downstaging
Disease-specific survival

17

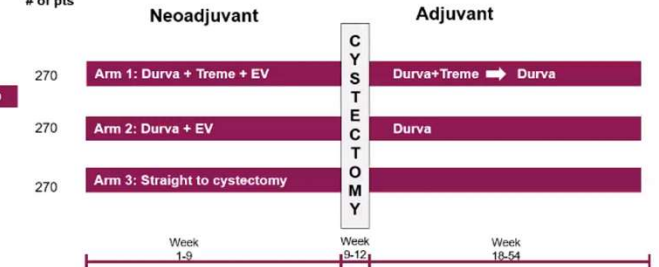
* Cap cT2N0 at 40%

Safety run-in

- 20 patients max
- Evaluate safety after 1 cycle
- Recruitment in main study starts after first 10 patients completed at least one cycle of neoadjuvant therapy

CYSTECTOMY

of pts



Dosing regimen

	Neoadjuvant	Adj
Durva	1500mg Day 1 Q3W x 3 cycles	1500mg Day 1 Q4W x 9 cycles
EV	1.25mg/kg Day 1, 8 Q3W x 3 cycles	
Treme	75mg Day 1 cycle 1 75mg Day 8 cycle 2	75mg Day 1 cycle 1

NIAGARA (NCT03732677)¹

- Resectable muscle-invasive transitional cell bladder cancer that will be surgically treated with radical cystectomy
- No prior systemic chemoTx or immunotherapy
- ECOG PS ≤ 1

n \sim 1,050

Durvalumab + chemoTx \rightarrow
adjuvant durvalumab

ChemoTx

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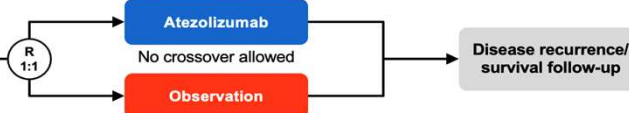
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CAMBIO DE PARADIGMA

IMvigor010: phase III study of adjuvant atezolizumab in MIUC

- High-risk MIUC (bladder or upper tract)
- Radical surgery with lymph node dissection within ≤14 weeks
- Tissue sample for PD-L1 testing

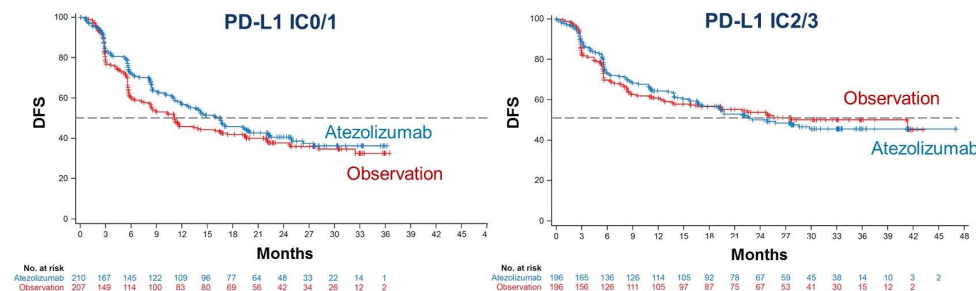


Endpoints

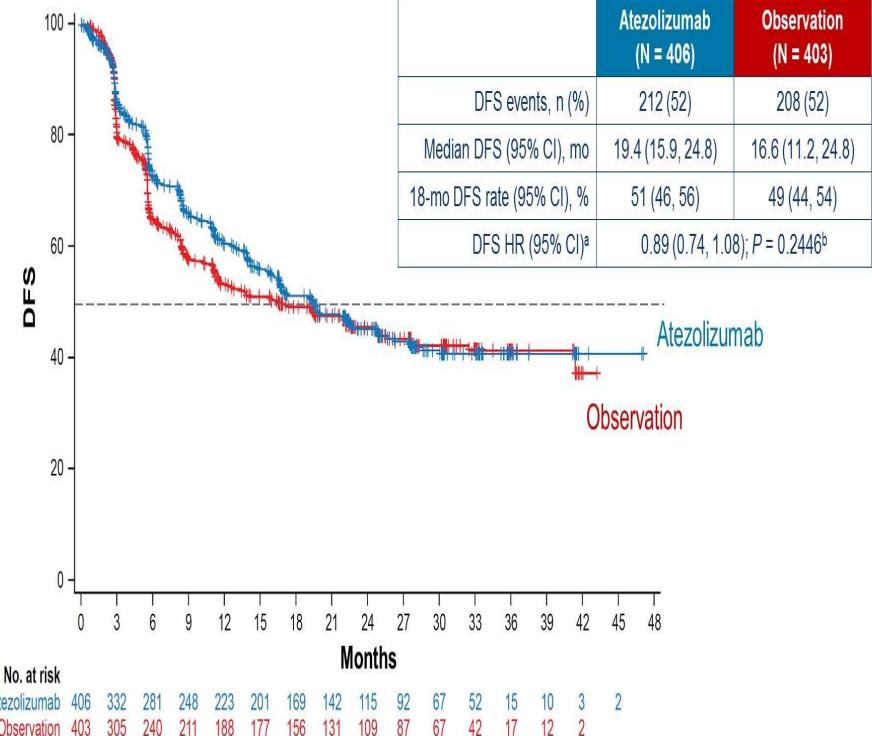
- Primary: DFS (ITT population)
- Key secondary: OS (ITT population)
- Other: safety
- Exploratory: predictive, prognostic and pharmacodynamic biomarkers in tumour tissue and blood and their association with disease recurrence

- IMvigor010 did not meet its primary endpoint (DFS in the ITT population)
 - A pre-planned interim OS analysis was performed but could not be formally tested
 - OS follow-up is immature and ongoing in the ITT population
- The PD-L1 and TMB biomarkers did not identify patients benefitting from atezolizumab vs observation in the ITT population
- A pre-specified ctDNA biomarker analysis was performed

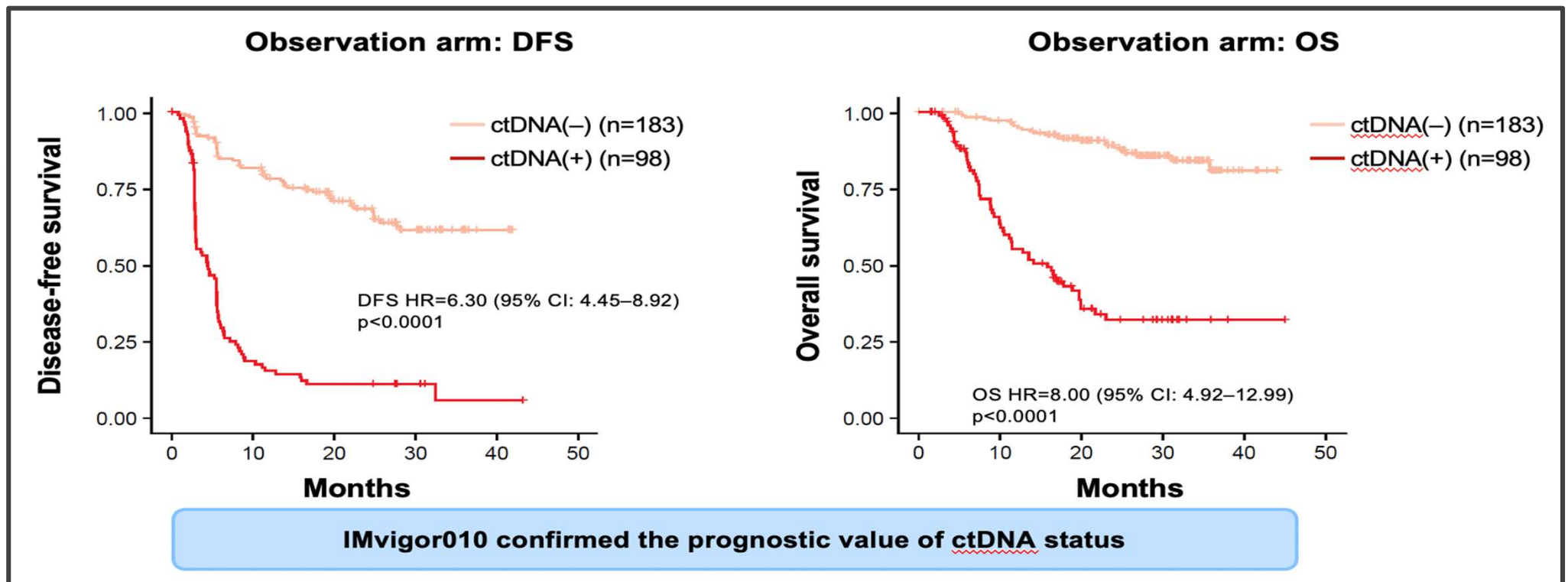
DFS by PD-L1 Status



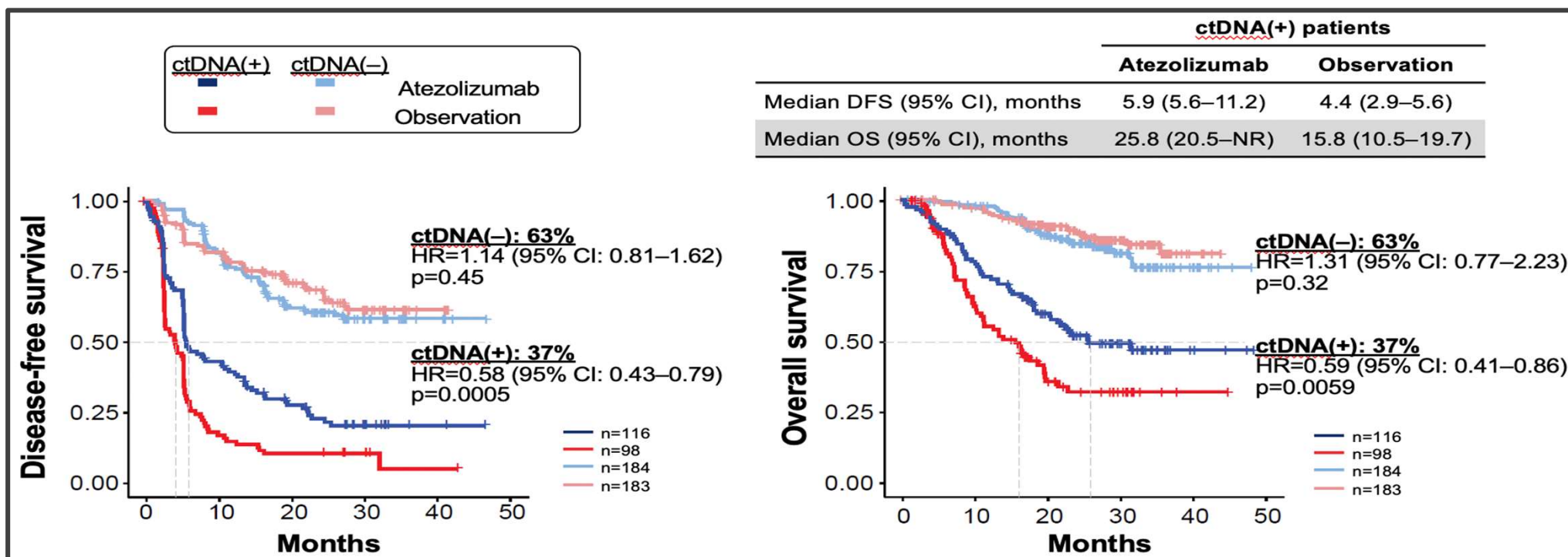
DFS in ITT Population



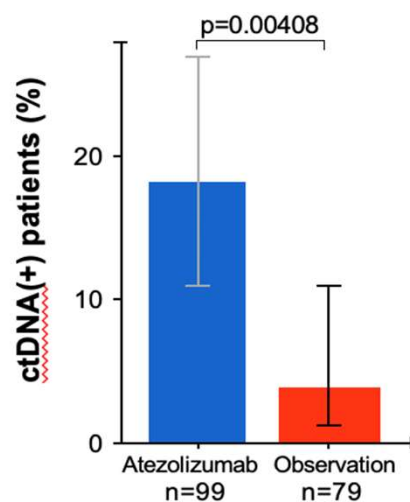
1. CT-DNA+ PATIENTS HAVE A WORSE PROGNOSIS



2. CT-DNA+ PATIENTS TREATED WITH ATEZOLIZUMAB HAD IMPROVED SURVIVAL



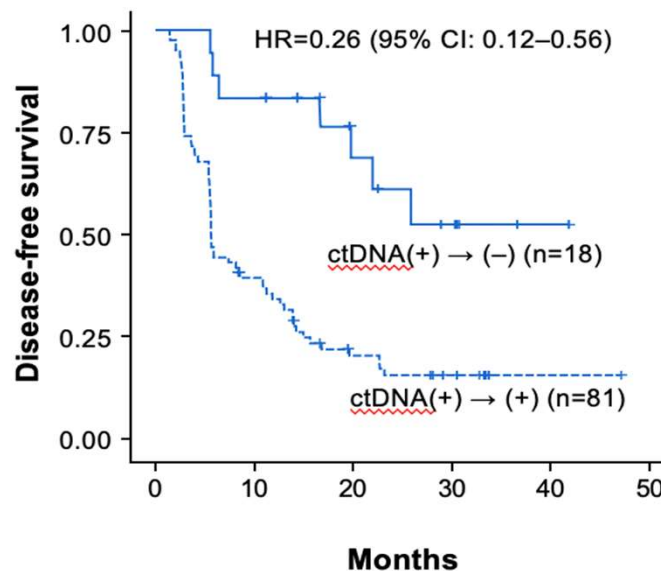
3. CT-DNA CLEARANCE UNDER ATEZOLIZUMAB WAS ASSOCIATED WITH IMPROVED SURVIVAL



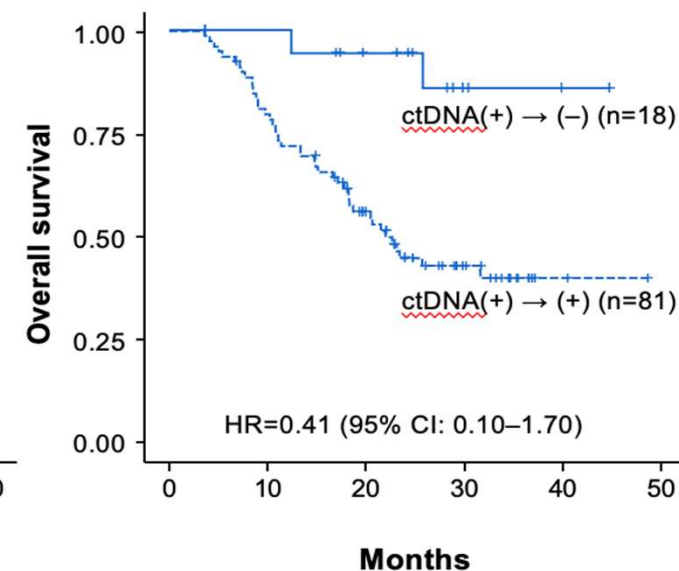
Study arm

ctDNA(+) → (-)	18 (18.8%)	3 (3.8%)
ctDNA(+) → (+)	81 (81.82%)	76 (96.2%)

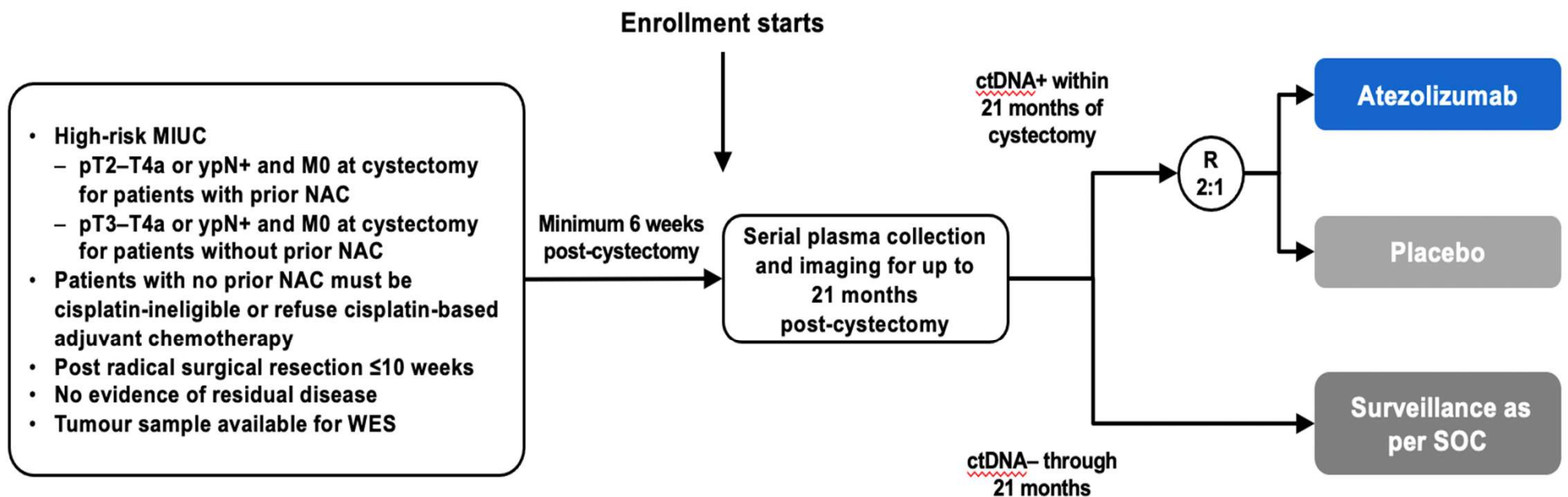
Atezolizumab arm: DFS



Atezolizumab arm: OS

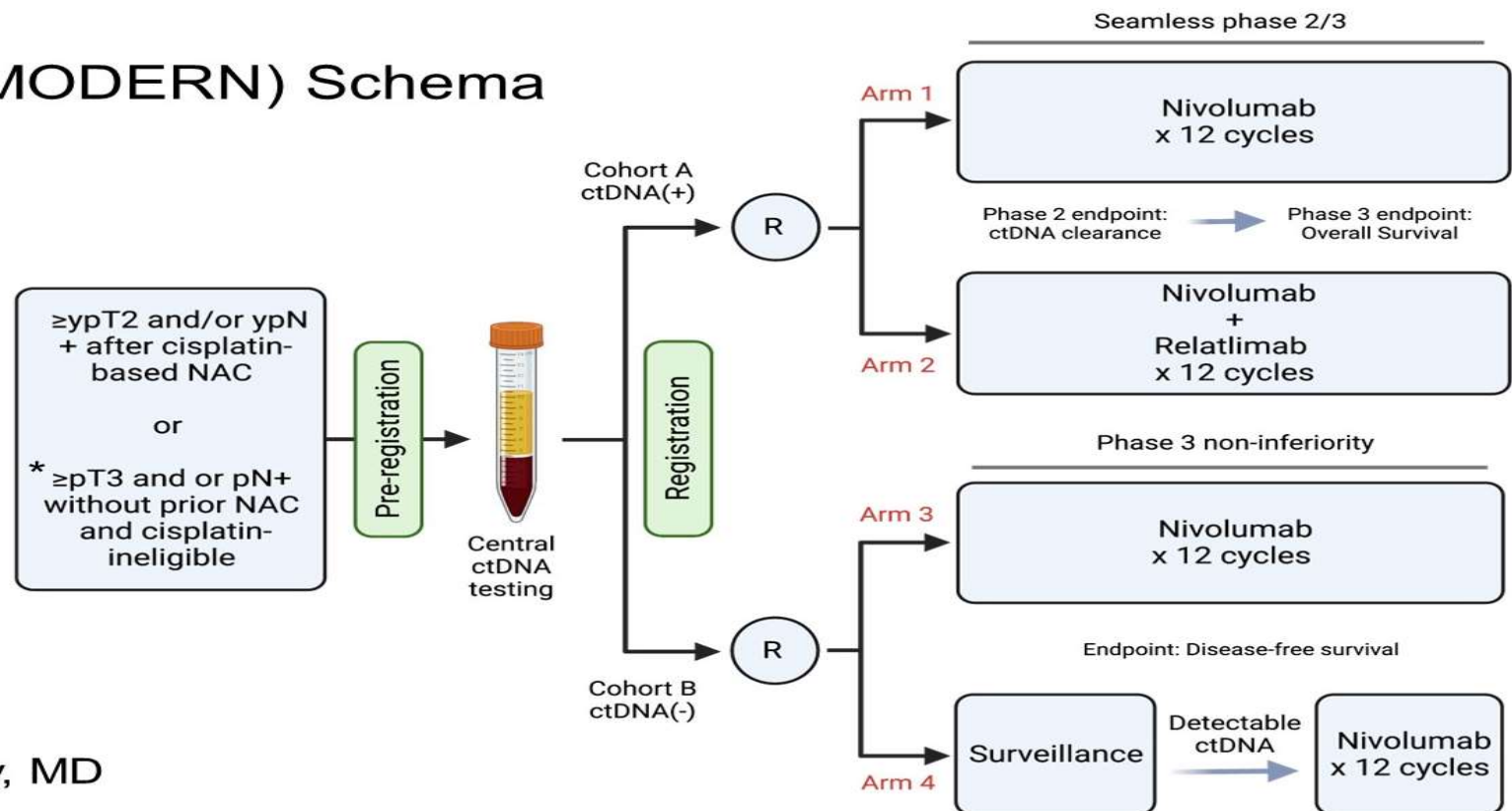


IMvigor011 (phase III study of adjuvant atezolizumab in ctDNA+ MIUC patients)



Primary endpoint: IRF-assessed DFS in patients who are ctDNA+ within 20 weeks of cystectomy

A032103 (MODERN) Schema



PI: Matthew Galsky, MD

*patients with pT2N0 (distinct from ypT2N0) will be eligible IF ctDNA(+)

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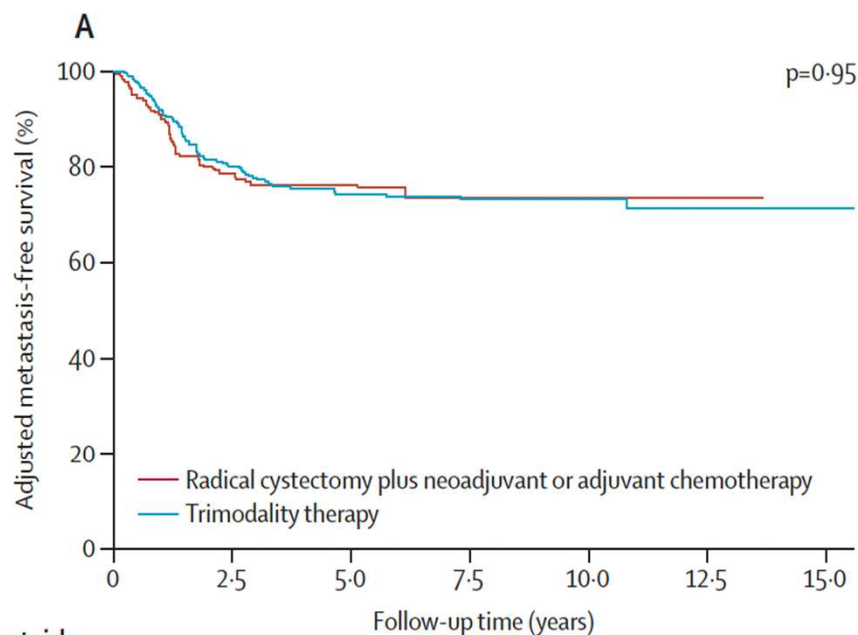
NUEVOS
BIOMARCADORES

2

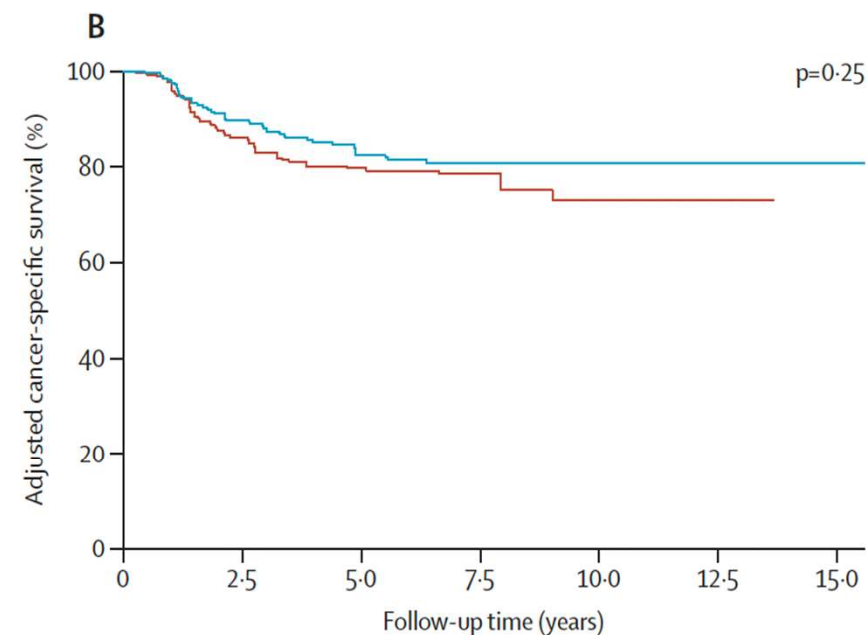
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CAMBIO DE PARADIGMA

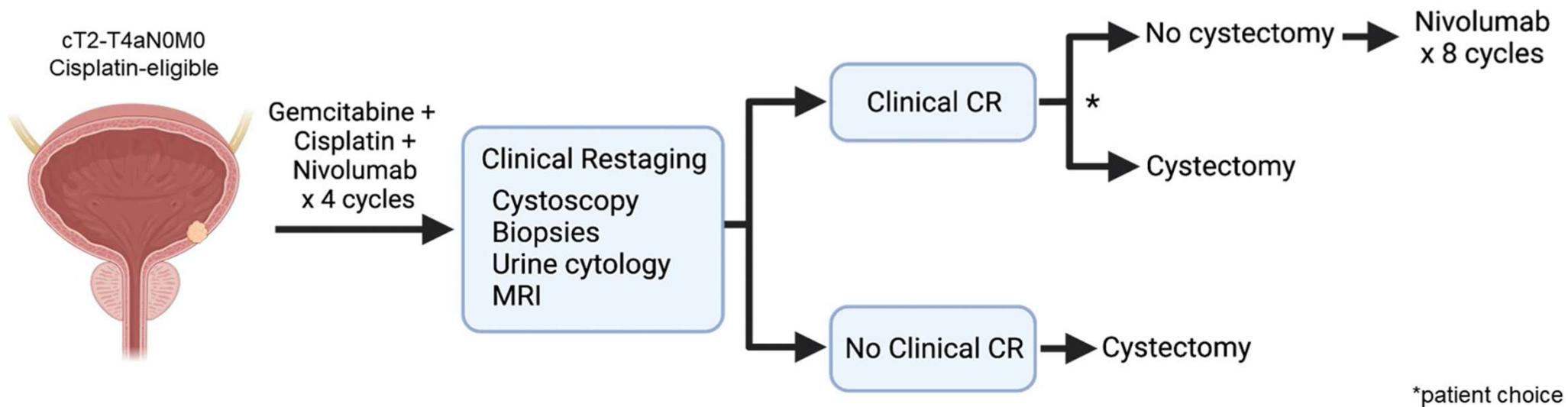
Radical cystectomy versus trimodality therapy for muscle-invasive bladder cancer: a multi-institutional propensity score matched and weighted analysis



	0	2.5	5.0	7.5	10.0	12.5	15.0
Radical cystectomy plus neoadjuvant or adjuvant chemotherapy	176	118	82	34	14	4	0
Trimodality therapy	282	202	130	75	42	17	2



	0	2.5	5.0	7.5	10.0	12.5	15.0
Radical cystectomy plus neoadjuvant or adjuvant chemotherapy	176	127	86	37	14	4	0
Trimodality therapy	282	222	138	76	43	19	2



Co-primary endpoints

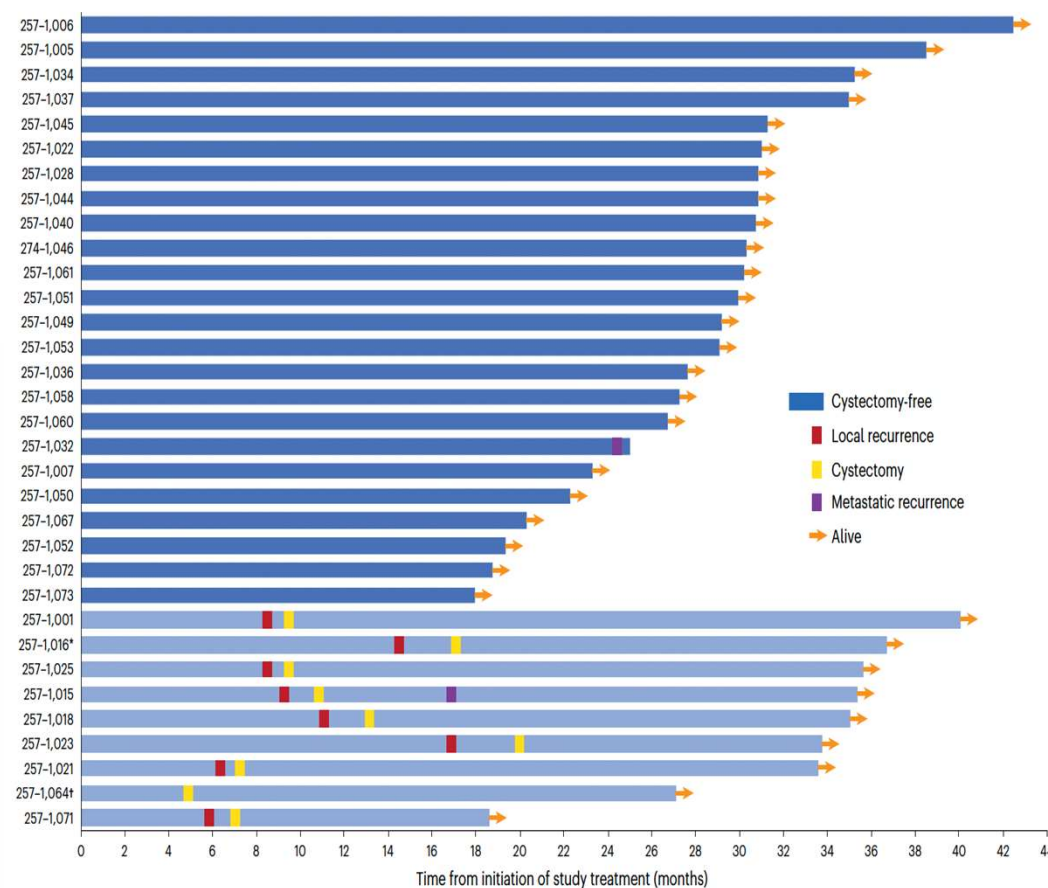
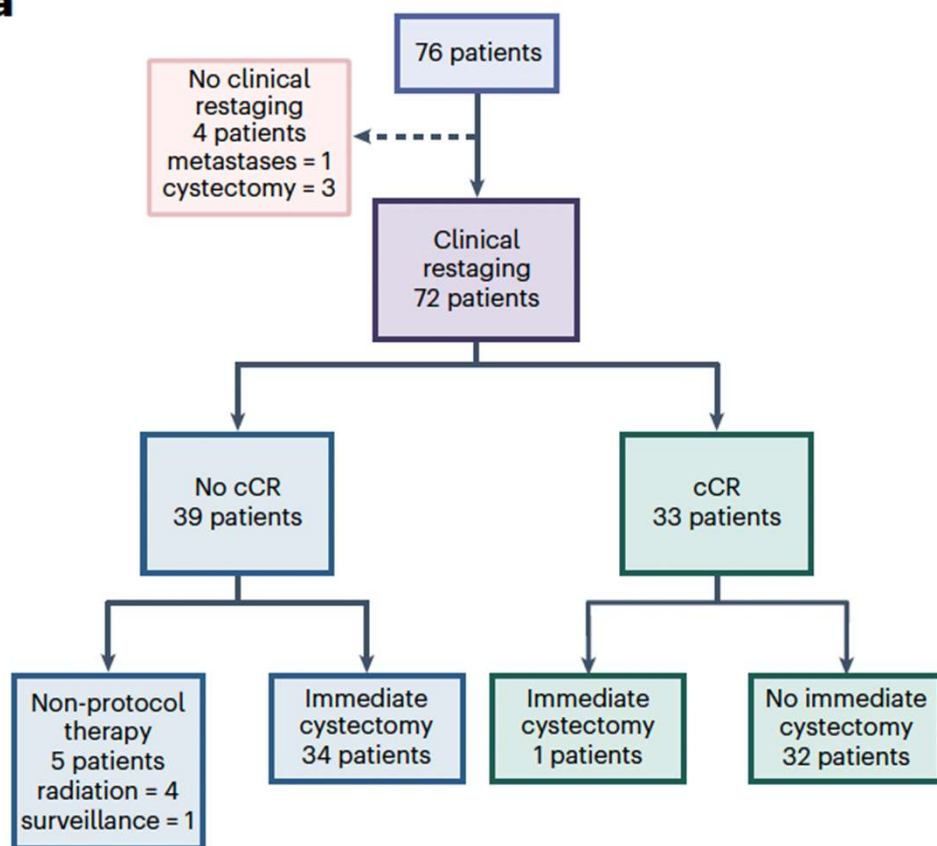
- Clinical complete response (CR) rate
- Performance of clinical CR in predicting treatment *benefit*:
 - ❖ 2 year metastasis free if no cystectomy
 - ❖ pCR in immediate cystectomy

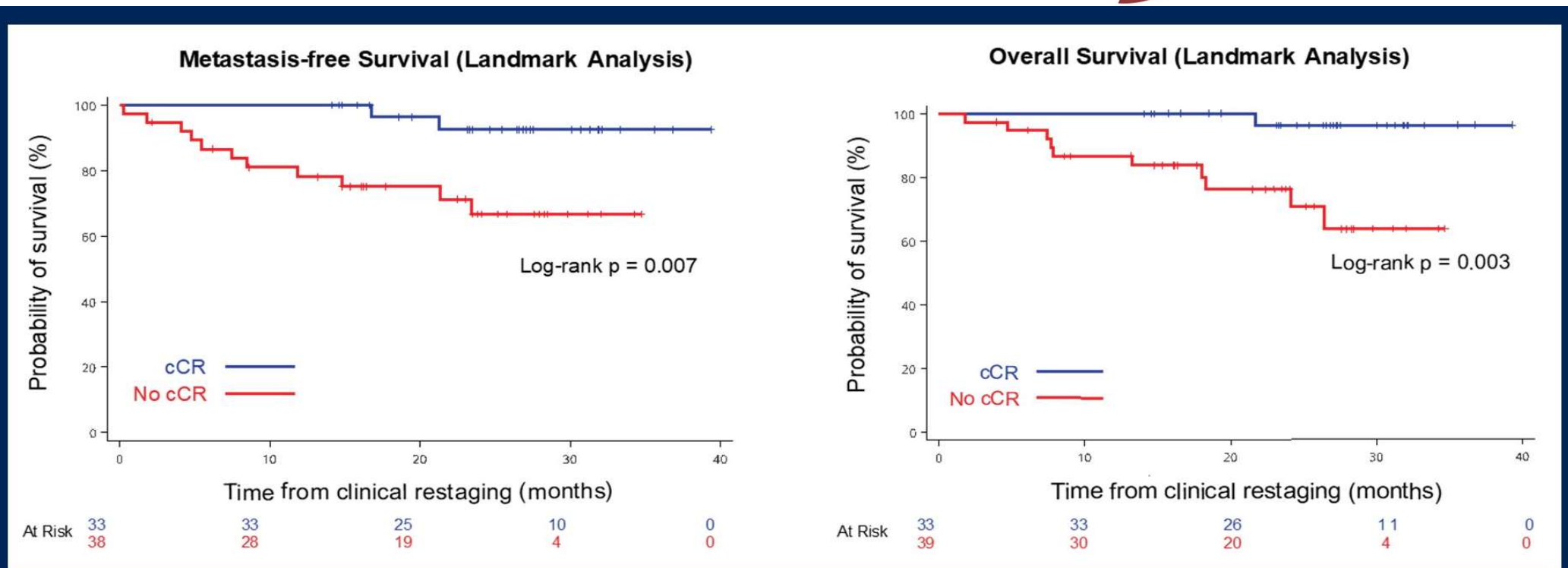
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CAMBIO DE PARADIGMA

a





Clinical CR predicted treatment benefit with a positive predictive value of 0.96 (95% CI, 0.89, 1)

CONCLUSIONES

- Quimioterapia neoadyuvante como estándar para un subgrupo de pacientes
- Inmunoterapia adyuvante como opción con impacto en DFS
 - *Nivolumab* aprobado en PD-L1+
 - *Pembrolizumab*
- Necesitamos mejores biomarcadores
- ¿Son todas las cistectomías realmente necesarias?



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Madrid, 28 de febrero de 2024

MUCHAS GRACIAS POR SU ATENCIÓN

ÁLVARO PINTO

Servicio de Oncología Médica, Hospital Universitario La Paz – IdiPAZ, Madrid