



6th ANNUAL UC COURSE

Emerging personalized therapies for the
management of urothelial carcinomas

VI CURSO ANUAL DE UC

Terapias personalizadas emergentes
en el manejo del carcinoma urotelial

New options in the adjuvant setting including ctDNA

Teresa Alonso Gordoa, MD PhD

Medical Oncology Department

Hospital Universitario Ramón y Cajal

Madrid



Dr. Alonso Gordoa financial interests:

Personal conflicts of interest Scientific consultancy role (speaker and advisory roles) from Lilly, Ipsen, Bayer, Johnson & Johnson, Astellas, Eisai, Advanced Accelerator Applications, MSD, BMS, Pfizer.

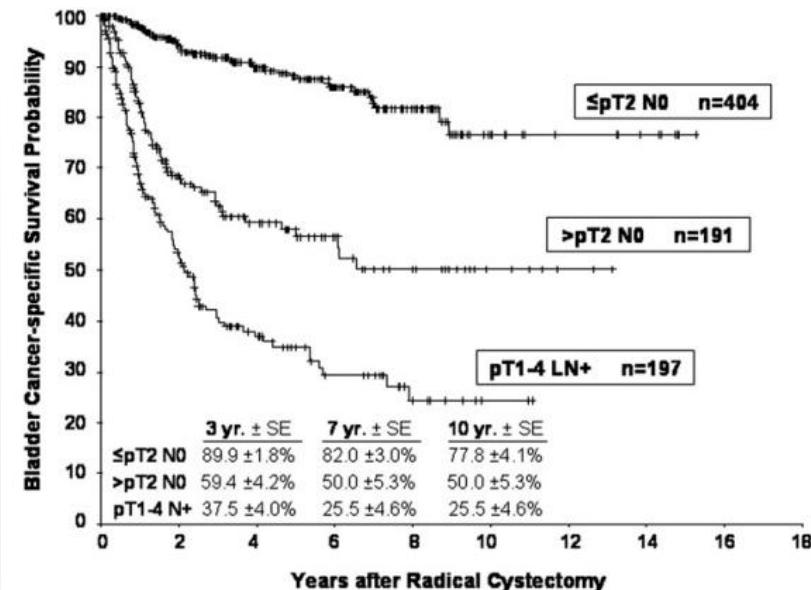
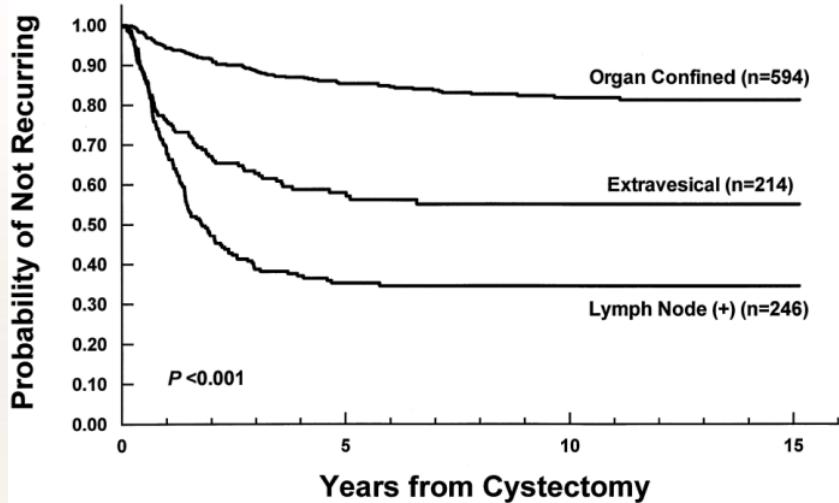
Research support Research grants from IPSEN, Johnson & Johnson.



Why do we need perioperative treatment in MIBC

888 consecutive patients with bladder TCC

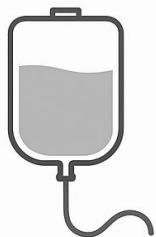
3 academic centers in US



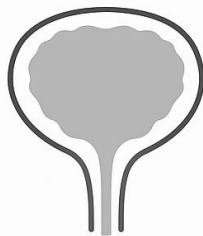
creating a selection bias. In addition, because the study period spans more than 20 years, data may not represent current practice patterns. For example, neoadjuvant chemotherapy was relatively underused in our series compared to current recommendations. Moreover, surgical techniques, such as nerve sparing radical cystectomy and the number of LNs removed, indications for surgery and followup protocols have changed with time. Furthermore, assigning cause of



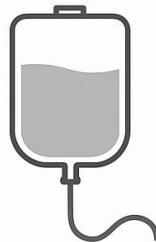
NEOADJUVANT



SURGERY



ADJUVANT





*Stop early

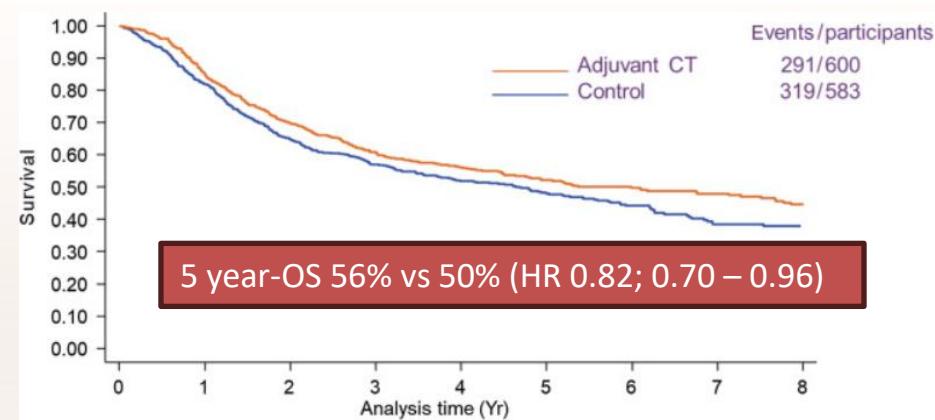
Adjuvant treatment chemotherapy-based.

Trial	Accrual years	N	Stage	Treatment	Control arm	CISPLATIN-BASED
Skinner*	1980-88	102	pT3-pT4, pN+, M0	Cystectomy + 4c of CAP	Cystectomy	
Bono	1984-87	90	pT2-pT4a, pN0, M0	Cystectomy + 4c of Cisplatin + Methotrexate	Cystectomy	
Studer*	1984-89	91	pT1 (grade 2)-pT4, pN1-2, M0	Cystectomy + 3c of cisplatin	Cystectomy	
Stockle*, Lehmann*	1987-90	49	pT3b-pT4a, pN+, M0	Cystectomy + 3c of MVEC or MVAC	Cystectomy	
Otto	1993-99	108	pT3, N1-2, M0	Cystectomy + 3c of MVEC	Cystectomy	
Stadler*	1997-2006	114	pT1-pT2, pN0, M0 (all p53+)	Cystectomy + 3c of MVAC	Cystectomy	
Freiha*	1986-93	51	pT3b-pT4, any pN, M0	Cystectomy + 4c of CMV	Cystectomy + (same) CT on relapse	
Cognetti*	2001-07	194	pT2 (grade 3) pT3-pT4, pN0-2, M0	Cystectomy + 4c GC	Cystectomy + (same) CT on relapse	
Sternberg*	2002-14	284	pT3-pT4 or pN1-3, M0	Cystectomy + 4c of: MVAC, high-dose MVAC or GC	Cystectomy + 6 cycles (same) CT on relapse	
Zhegalik	2007-13	100	pT3-pT4 and/or pN+, M0	Cystectomy + 2c of GC	Cystectomy + (same) CT on relapse	

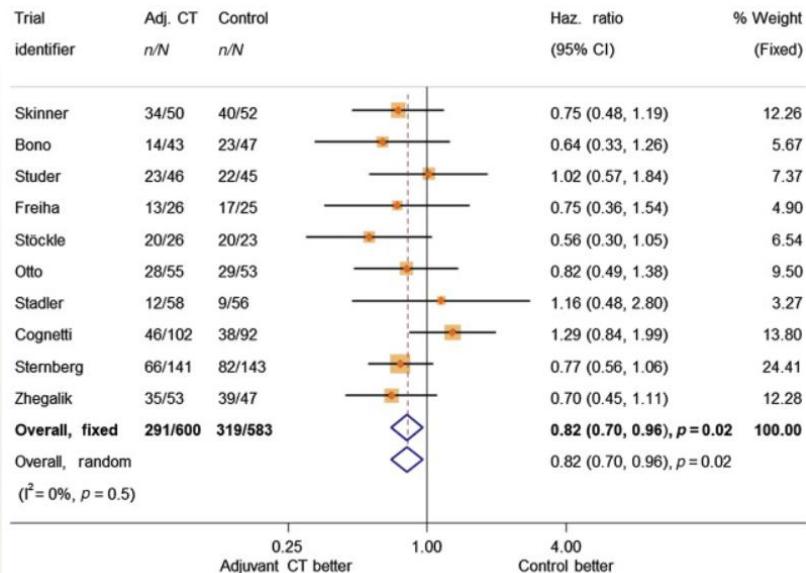


Adjuvant treatment chemotherapy-based

Meta analysis 10 randomized clinical trials (1183 participants)



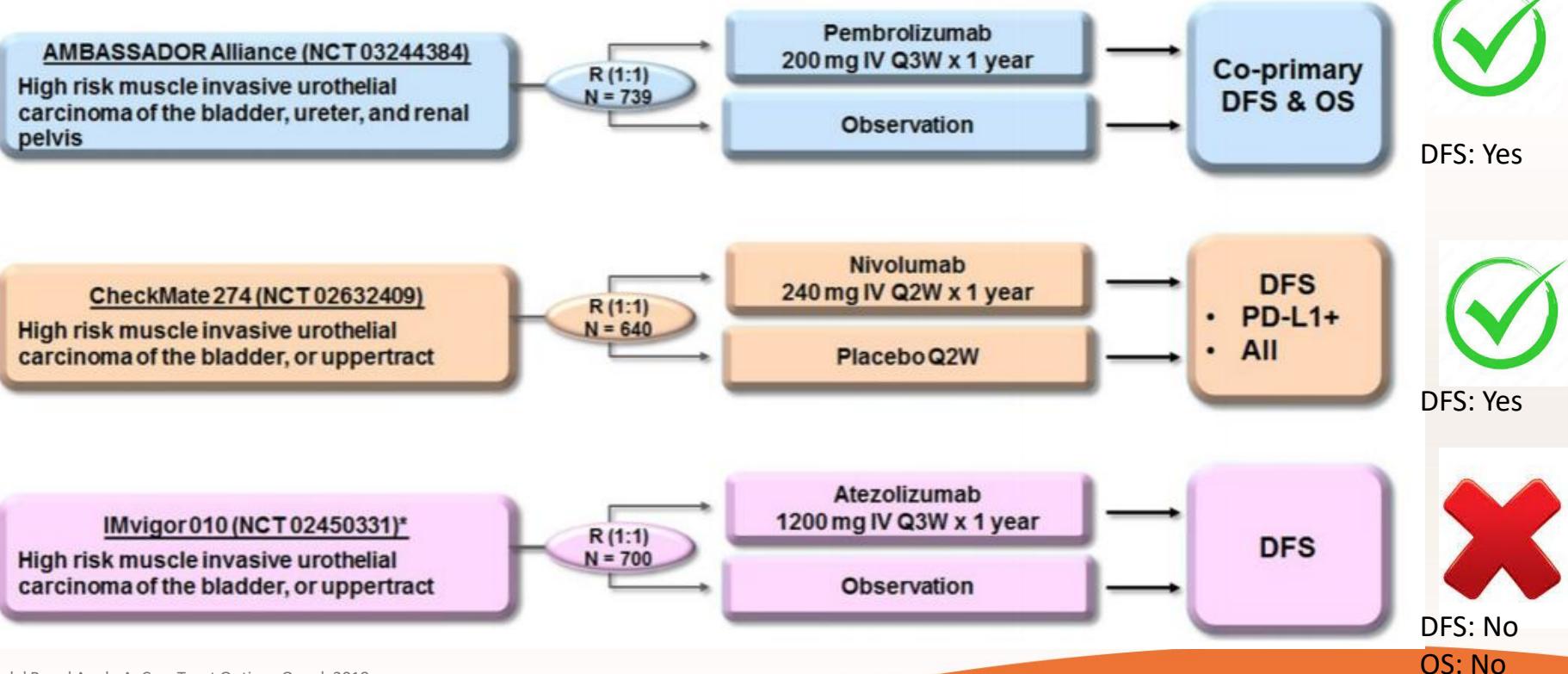
The effect (Non-stratified) of adjuvant chemotherapy on overall survival



Limitation in recruitment, treatment schedules, treatment compliance, and in the profile of eligible patients to cisplatin-based therapy



Adjuvant treatment with PD-1/PD-L1 inhibitors





CHECKMATE 274

- 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 who had adjuvant cisplatin chemotherapy and not eligible for neoadjuvant cisplatin chemotherapy
- Radical surgery within the past 120 days
- Disease-free status within 4 weeks of dosing

adjuvant
pT2=18%
pT3=58%
pT4a=16%

N+=47%

43%

Stratification factors

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

Nodal status

R
1:1

NIVO IV
240 mg Q2W

PBO IV
Q2W

Treat for up to
1 year of adjuvant
therapy

Minimum follow-up, 5.9 months

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

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

^aDefined by the percent of positive tumor cell membrane staining in a minimum of 100 evaluable tumor cells using the PD-L1 IHC 28-8 PharmDx immunohistochemistry assay.

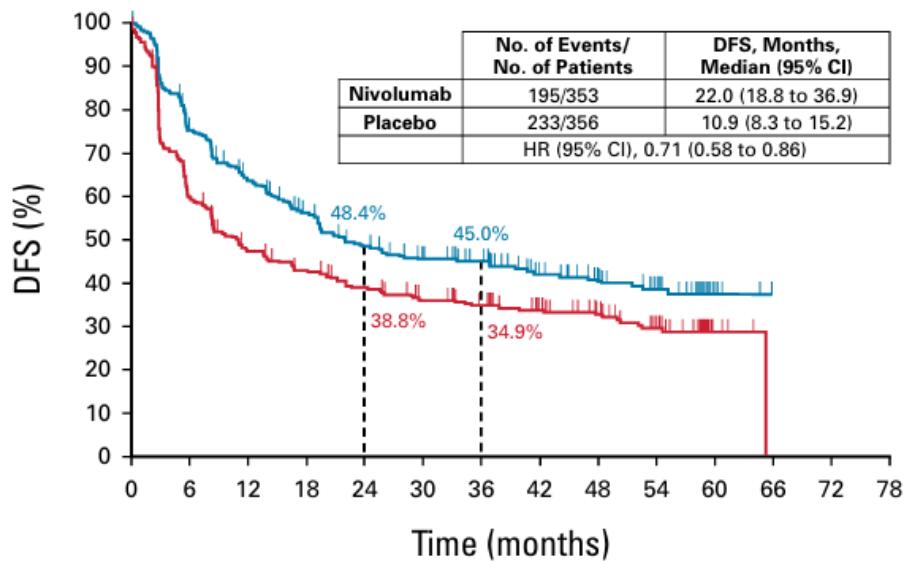
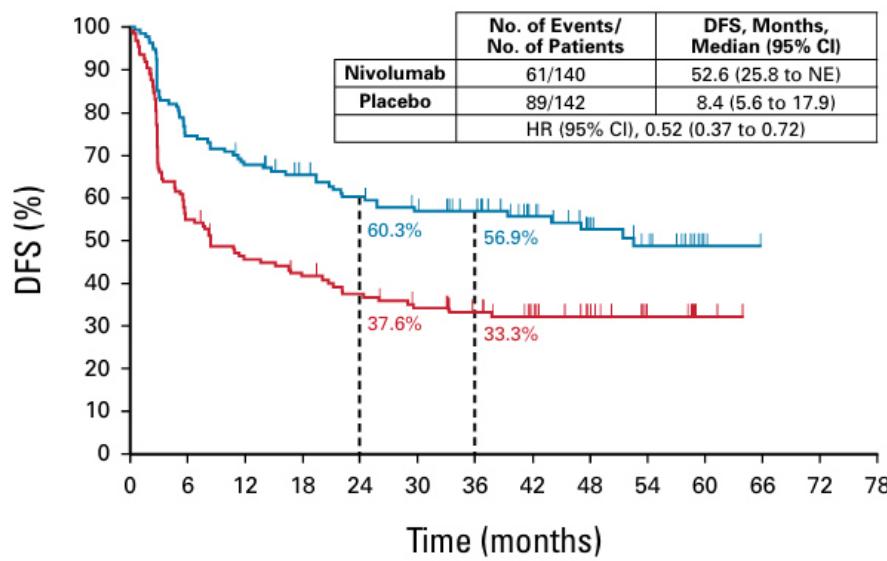
^bOS data were not mature at the time of the first planned interim analysis. OS and DSS data are not presented.

DFS, disease-free survival; DMFS, distant metastasis-free survival; DSS, disease-specific survival; HRQoL, health-related quality of life; IHC, immunohistochemistry; ITT, intent-to-treat; NUTRFS, non-urothelial tract recurrence-free survival; OS, overall survival; PD-L1, programmed death ligand 1; Q2W, every 2 weeks; R, randomized.



CHECKMATE 274

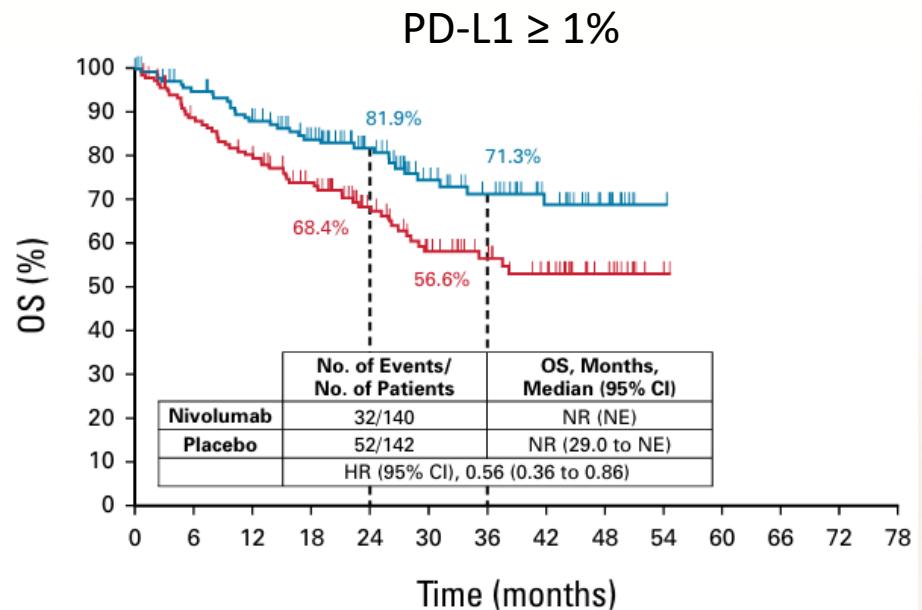
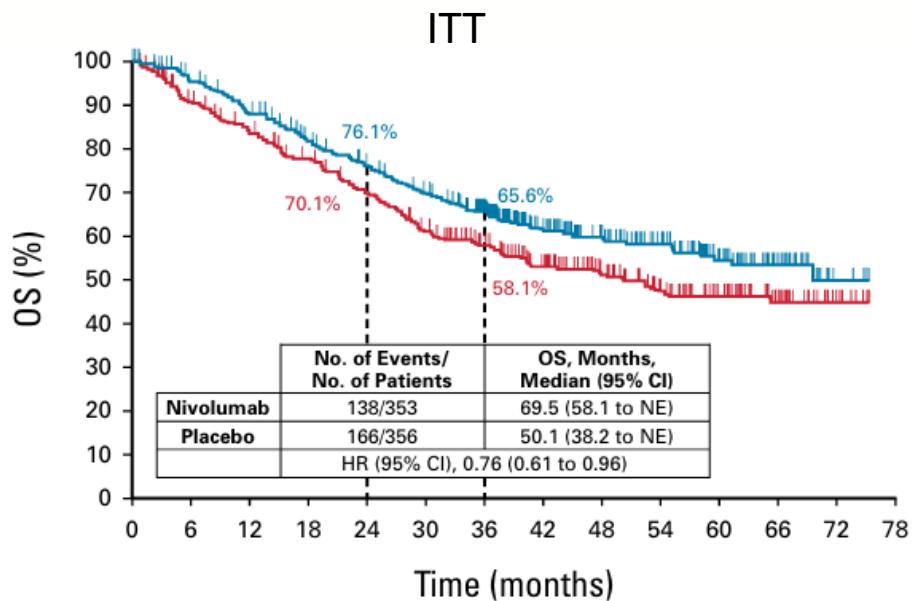
PRIMARY ENDPOINT: DISEASE FREE SURVIVAL (3 YEAR MEDIAN FUP)

ITT**PD-L1 $\geq 1\%$** 



CHECKMATE 274

SECONDARY ENDPOINT: OVERALL SURVIVAL (3 YEAR MEDIAN FUP)

**Number at risk**

Nivolumab	353	326	298	268	244	220	188	150	123	92	60	33	4	0
Placebo	356	308	281	254	226	194	167	136	109	79	56	32	10	0

Number at risk

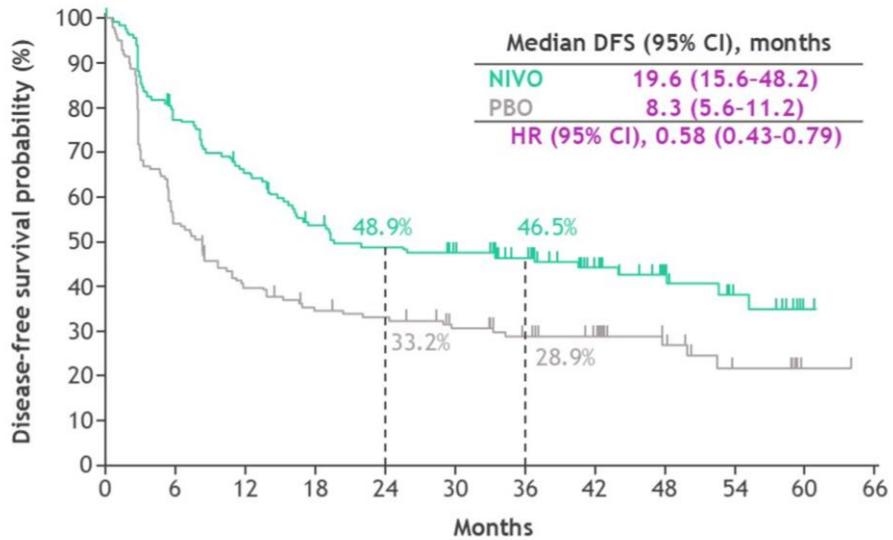
Nivolumab	140	127	115	93	73	52	41	29	11	1	0	0	0	0
Placebo	142	116	104	87	65	46	36	26	12	2	0	0	0	0



CHECKMATE 274

IMPACT OF NEOADJUVANT TREATMENT

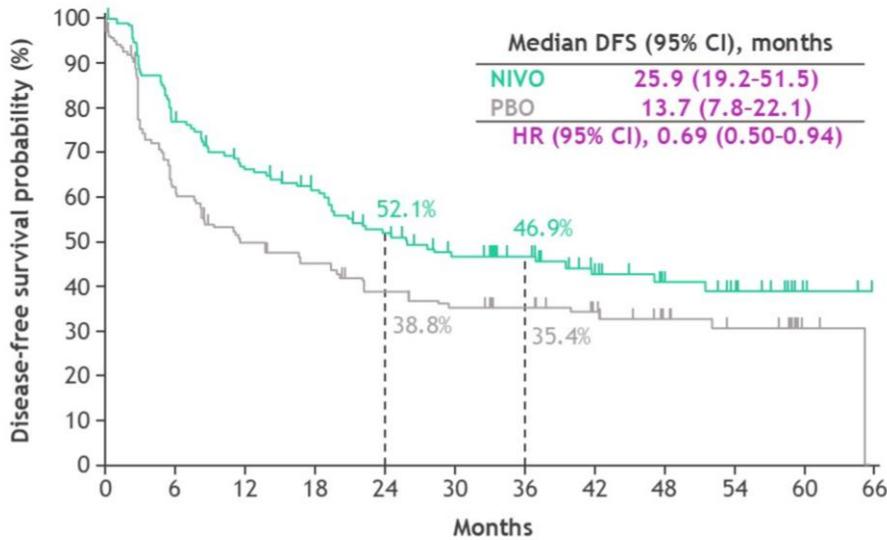
Patients with MIBC with prior NAC



No. at risk

NIVO	142	105	88	70	63	58	48	34	20	12	1	0
PBO	142	77	55	46	43	36	29	24	15	7	1	0

Patients with MIBC without prior NAC^a



No. at risk

NIVO	137	103	87	77	63	52	44	30	21	16	3	0
PBO	139	82	64	57	47	42	35	28	19	12	2	0



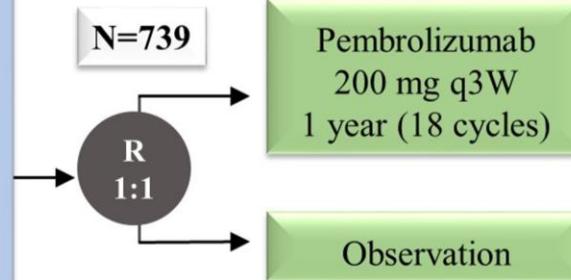
AMBASSADOR

Key Eligibility

- Muscle-invasive urothelial carcinoma: bladder, urethra, renal pelvis, ureter
- Post-radical surgery (cystectomy, nephrectomy, nephroureterectomy, or ureterectomy) ≥ 4 but ≤ 16 weeks
- Post-neoadjuvant chemotherapy and \geq pT2 and/or N $+$ /+margins
OR
- cisplatin-ineligible or refusing and \geq pT3 and/or pN $+$ /+margins

Stratify

- PD-L1 status*
- Neoadjuvant chemotherapy yes/no
- Pathologic stage:
 - pT2/3/4aN0
 - pT4aN0
 - pT4bNx/N1-3
 - +surgical margins



*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

Second interim DFS analysis = 319
Second interim OS analysis = 257

Dual Primary Endpoints

- Disease-free survival
- Overall survival

Key Secondary Endpoints

- DFS/OS PD-L1 +/-
- Safety

Correlative Endpoints

- DFS/OS ctDNA +/-
- DFS/OS immune gene signatures
- DFS/OS tumor molecular subtype
- DFS/OS TCR clonality
- QOL



AMBASSADOR

Started enrollment Sept 2017
Closed to accrual Aug 2021

Enrolled N=702

Early closure due to US FDA approval of nivolumab for MIUC

PEMBROLIZUMAB* N=354
• Never started treatment N=24

OBSERVATION N=348
• Never started observation N=4

Disease-Free Survival

207 (58.5%)

166 (80.2)

5 (2.4%)

36 (17.4%)

DFS CENSORED

176 (50.6%)

117 (66.5%)

11 (6.3%)

48 (27.2)

19.8 %

33.5 %

147 (41.5%)

121 (82.3%)

26 (17.7%)

DFS EVENTS

172 (49.4%)

143 (83.1%)

29 (16.9%)

Overall Survival

223 (63.0%)

36 (16.1%)

187 (83.9%)

OS CENSORED

222 (63.8%)

42 (18.9%)

179 (80.6%)

131 (37.0%)

OS EVENTS

126 (36.2%)

A higher number of patients were censored in the observation vs the pembro arm

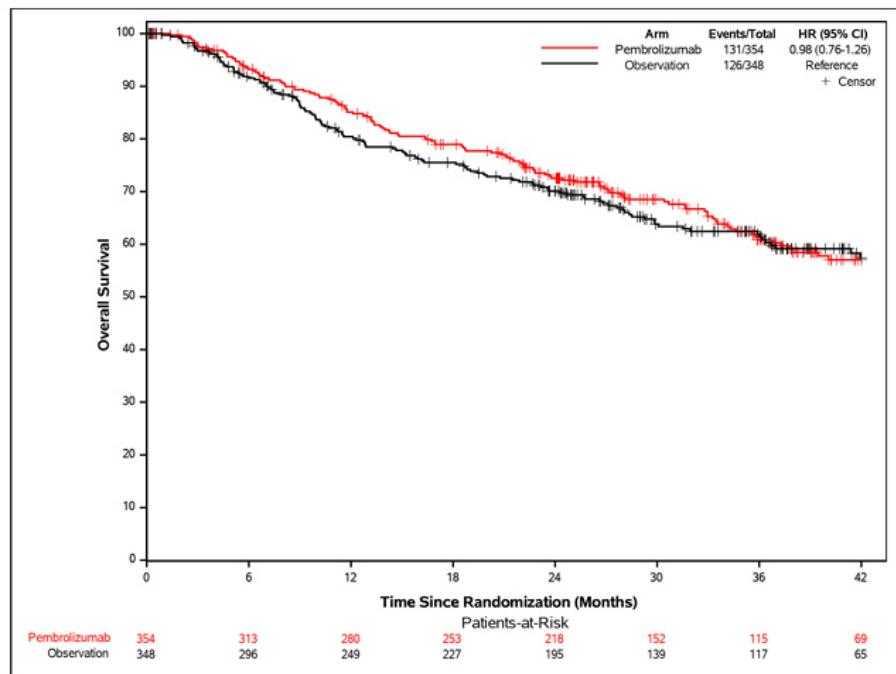
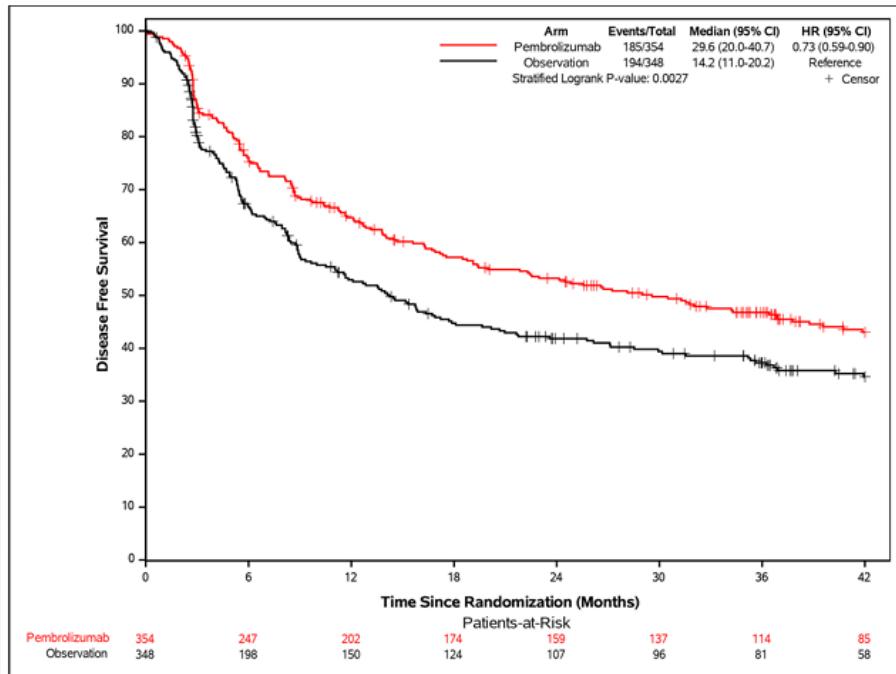
*Mean Number of Cycles (range) 11 (1-18)

All patients are currently off treatment



AMBASSADOR

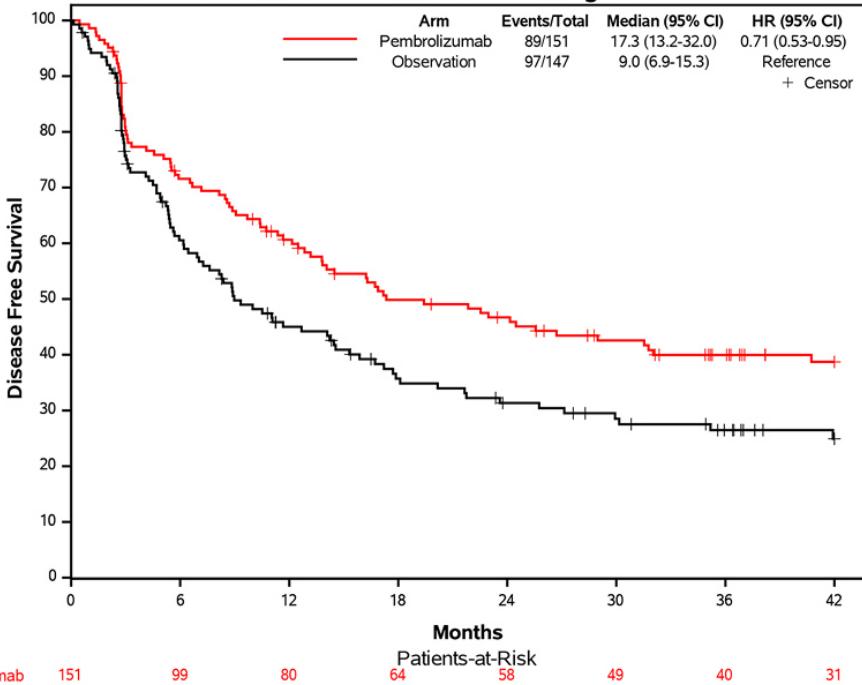
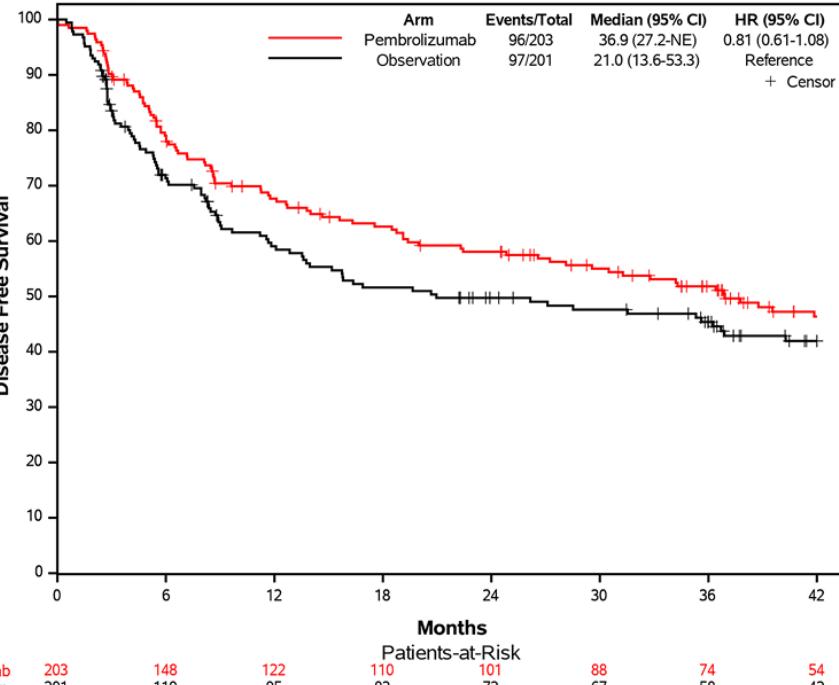
CO-PRIMARY ENDPOINTS: DISEASE FREE SURVIVAL (45 MONTHS MEDIAN FUP)





AMBASSADOR

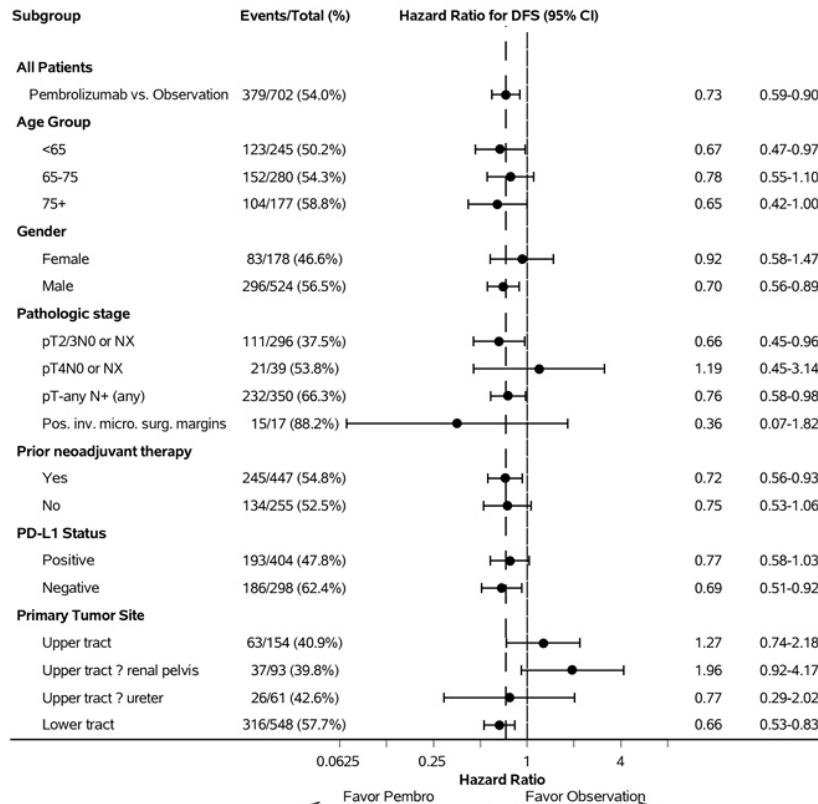
DISEASE FREE SURVIVAL ACCORDING TO PD-L1 STATUS

A Disease-Free Survival PD-L1 Negative**B Disease-Free Survival PD-L1 Positive**



AMBASSADOR

PRIMARY ENDPOINT: DISEASE FREE SURVIVAL SUBGROUPS

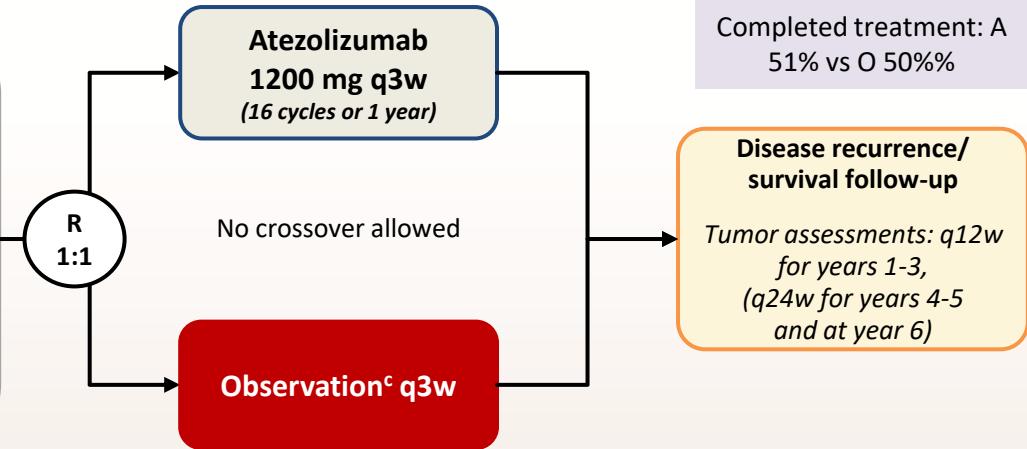




IMVIGOR 010

Key eligibility^a

- High-risk MIUC (bladder, renal pelvis, ureter)
- Radical cystectomy/nephroureterectomy with LN dissection within ≤ 14 weeks
 - ypT2-T4a or ypN+ for patients treated with NAC^b
 - pT3-T4a or pN+ for patients **not treated with NAC^b**
- No postsurgical radiation or AC
- If no prior NAC given, patient had to be ineligible for, or declined, cisplatin-based AC
- ECOG PS 0-2
- **Tissue sample for PD-L1 testing**

**Stratification factors**

• Number of LNs resected (< 10 vs ≥ 10)	• Tumor stage (≤ pT2 vs pT3/pT4)
• Prior NAC (Yes vs No)	• PD-L1 status ^a (IC0/1 vs IC2/3)
• LN status (+ vs -)	

- **Primary endpoint:** DFS (ITT population)
- **Key secondary endpoint:** OS (ITT population)
- **Exploratory analyses:** Biomarkers including PD-L1 status
- **Safety**

AC, adjuvant chemotherapy; DFS, disease-free survival; ITT, intention to treat; LN, lymph node; MIUC, muscle-invasive UC. ^aProtocol amendments broadened eligibility to “all-comers” (initially, only PD-L1-selected patients were enrolled [IC2/3: PD-L1 expression on tumor-infiltrating immune cells (IC) ≥ 5% of tumor area [VENTANA SP142 IHC assay]]) and to patients with MIUC (initially, only patients with muscle-invasive bladder cancer were enrolled). ^bUpper-tract UC staging: ypT2-4 or ypN+ (with NAC) and pT3-4 or pN+ (without NAC). ^cAlternating clinic visits and phone calls.



CONTACTO SIGNATERA

IMVIGOR 010

Prespecified exploratory analysis of ctDNA

- Measure ctDNA status at C1D1 and C3D1 using a personalized assay
- Evaluate potentially prognostic and/or predictive roles of ctDNA(+) and ctDNA clearance in IMvigor010
- HRs determined by univariate Cox proportional-hazards model, unless otherwise indicated
- *P* values are for descriptive purposes and only shown for prespecified analyses

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

Powles T, et al. ESMO IO 2020

RESULTS

INTRODUCTION

DISCUSSION

CONCLUSION

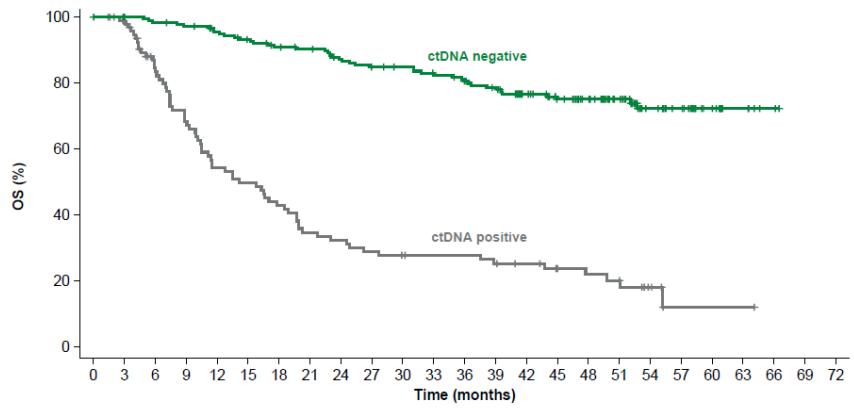
Powles T, et al. ESMO IO 2020

RESULTS

</div



IMVIGOR 010



No. at risk

ctDNA-	183	180	176	173	167	161	155	152	145	140	138	134	127	122	103	92	78	64	41	33	14	6	2	0	0	0
ctDNA+	98	93	73	59	47	43	37	30	28	25	23	22	20	18	14	12	11	5	1	1	1	0	0	0	0	

	ctDNA positive (n = 98)	ctDNA negative (n = 183)
Events, n (%)	70 (71)	43 (23)
Median OS (95% CI), mo	14.1 (10.5–19.7)	NR (NE)
HR ^a (95% CI)	6.30 (4.30–9.30)	

809 patients in IMvigor010 ITT population

- Atezolizumab (n=406)
- Observation (n=403)

222 with unevaluable tumour, matched normal or C1D1 plasma sample

6 did not pass plasma QC

581 biomarker-evaluable patients
(72% of ITT population)

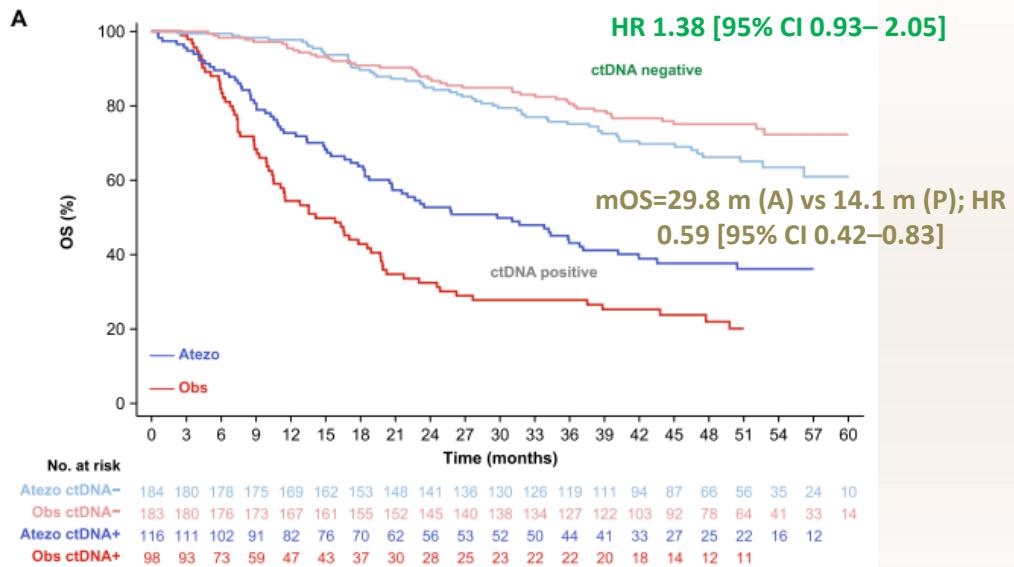
Observation (n=281)
ctDNA(+): 98 (35%)
ctDNA(-): 183 (65%)

Atezolizumab (n=300)
ctDNA(+): 116 (39%)
ctDNA(-): 184 (61%)



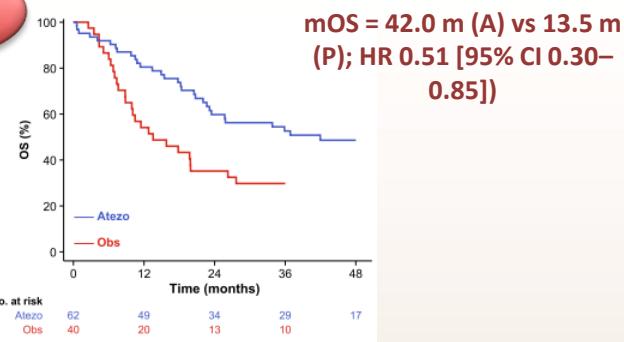
IMVIGOR 010: ANALYSIS AT BASELINE

Kaplan-Meier estimate of OS with atezolizumab versus observation in subgroups defined by baseline ctDNA status

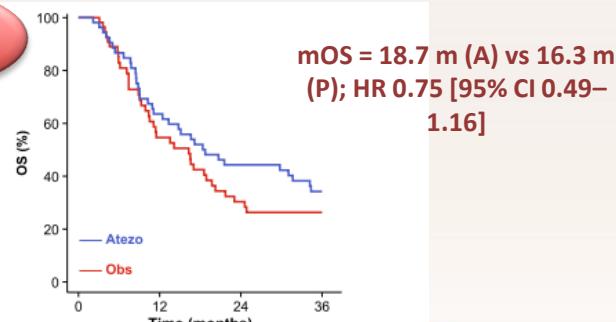


Kaplan-Meier estimates of OS with atezolizumab versus observation in patients positive for ctDNA by baseline PD-L1 status

IHC
2/3

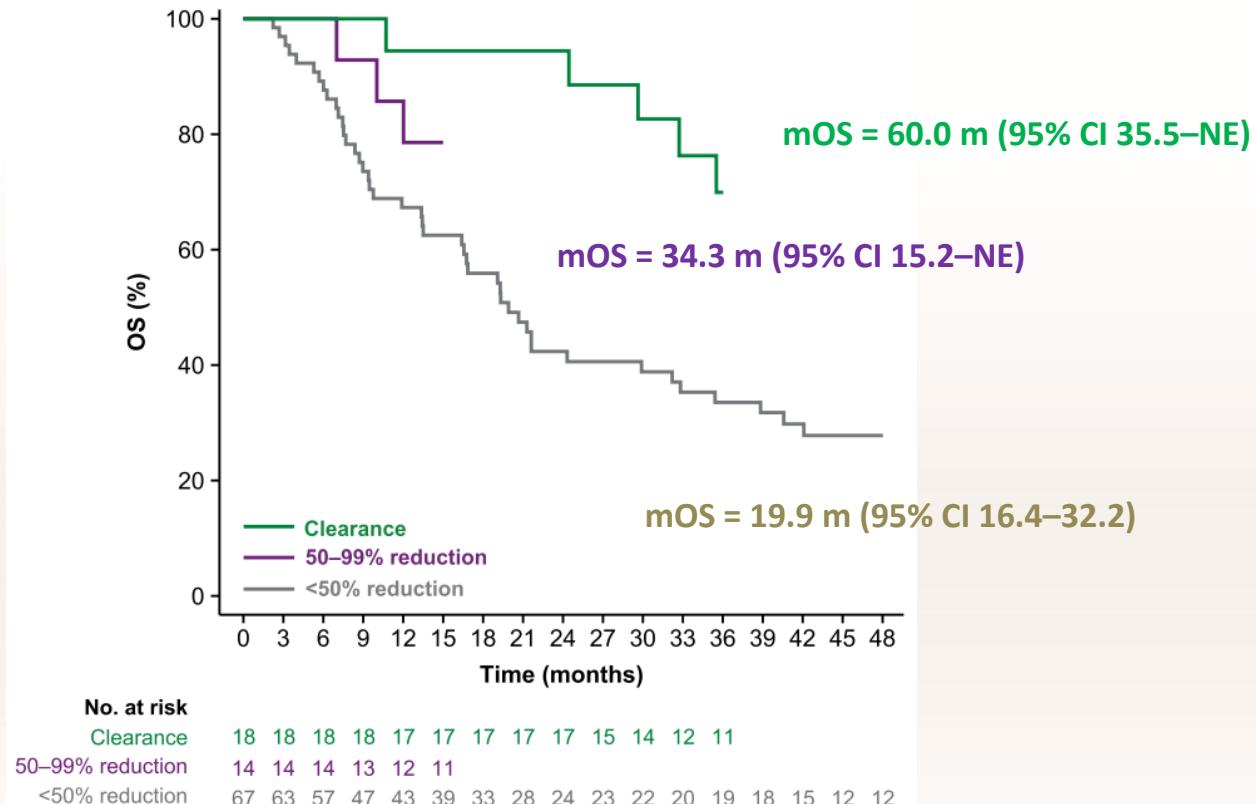


IHC
0/1





IMVIGOR 010: ANALYSIS DURING ADJUVANT TREATMENT

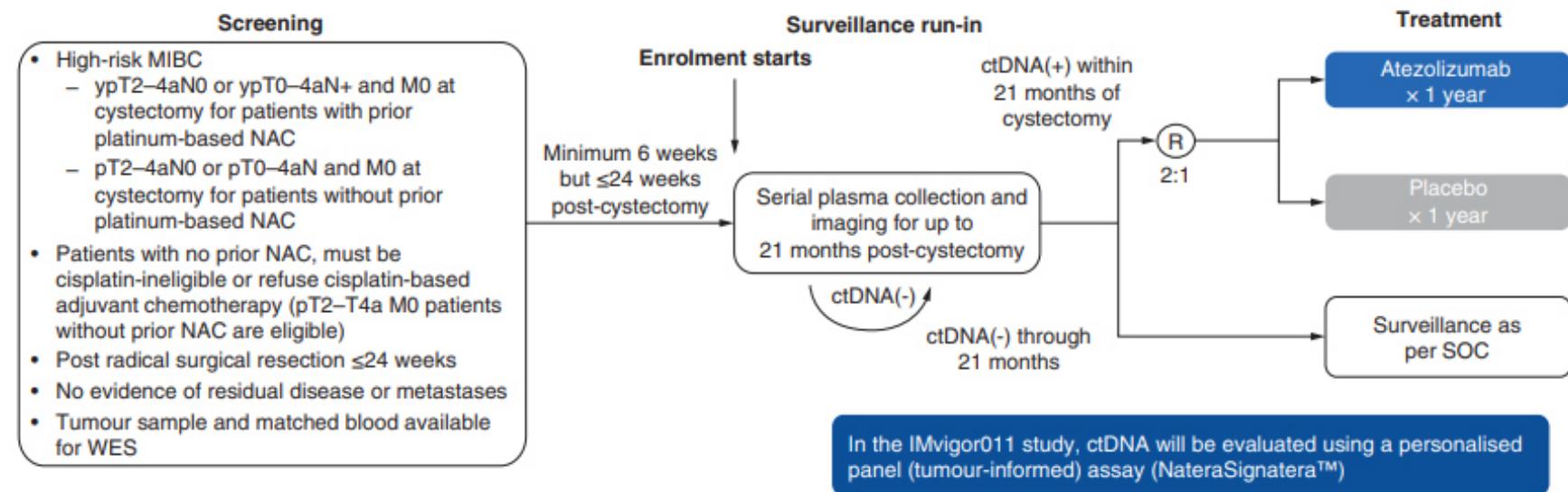




IMVIGOR 011

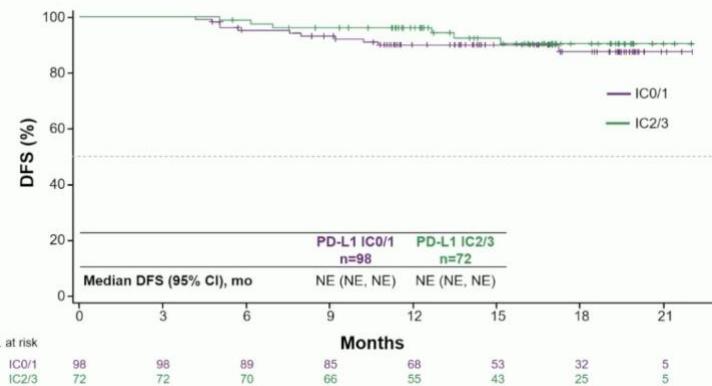
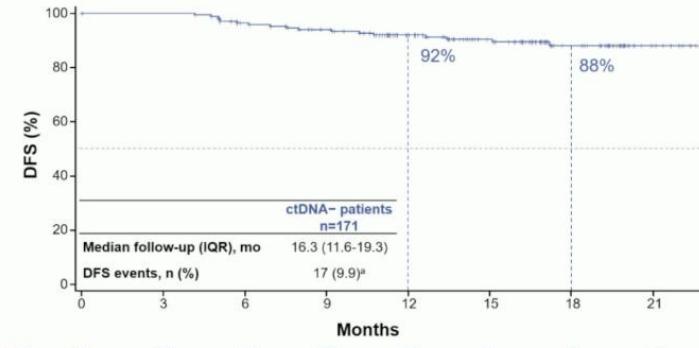
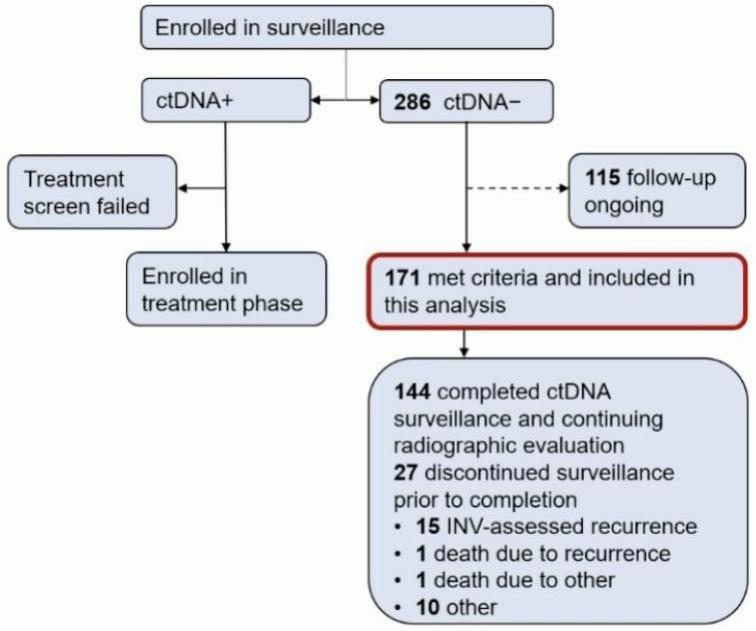
IMvigor011 study design

IMvigor011 (NCT04660344)





IMVIGOR 011



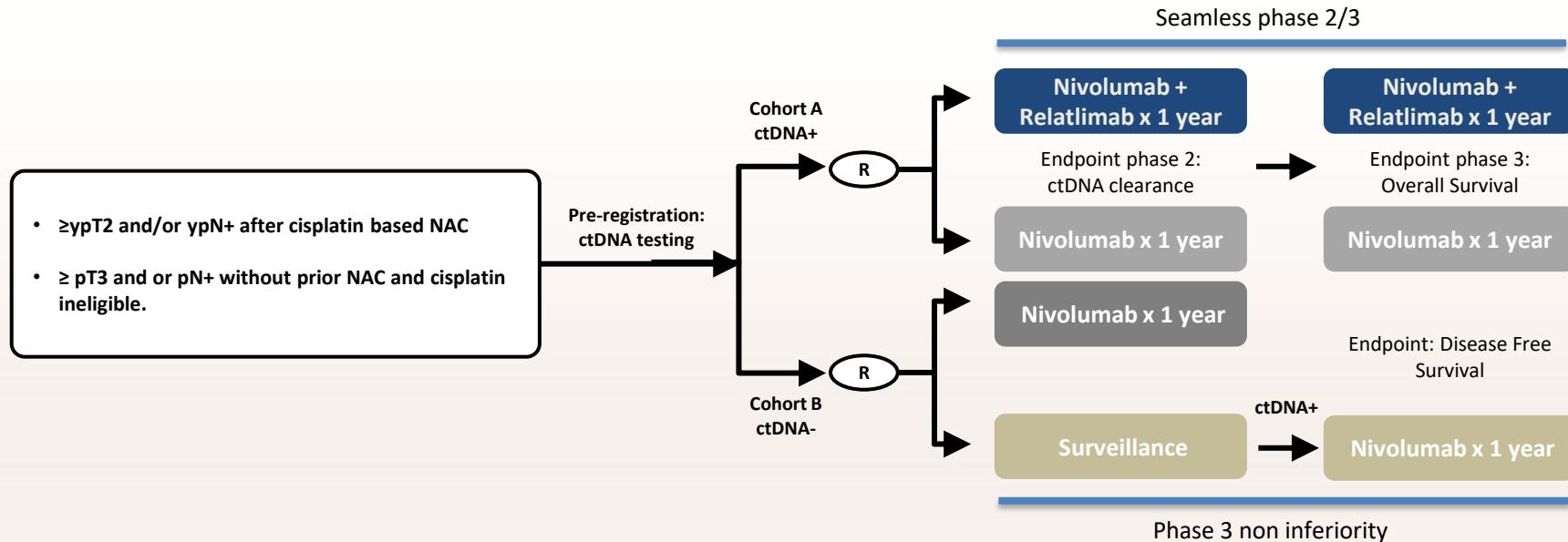


IMVIGOR 011

n (%)	Patients with disease recurrence n=15	Patients without disease recurrence ^a n=156	All ctDNA- patients n=171
Tumour stage^b			
<T2	2 (13.3)	16 (10.4)	18 (10.7)
T2	6 (40.0)	53 (34.4)	59 (34.9)
T3	6 (40.0)	68 (44.2)	74 (43.8)
T4	1 (6.7)	17 (11.0)	18 (10.7)
Nodal stage			
N0	11 (73.3)	124 (79.5)	135 (78.9)
N+	4 (26.7)	32 (20.5)	36 (21.1)
PD-L1 status^c			
IC0/1	11 (73.3)	87 (56.1)	98 (57.6)
IC2/3	4 (26.7)	68 (43.9)	72 (42.4)
Lymph nodes removed			
<10	3 (20.0)	34 (22.4)	37 (22.2)
≥10	12 (80.0)	118 (77.6)	130 (77.8)
Lymph node density^d			
<20	15 (100)	147 (96.7)	162 (97.0)
≥20	0	5 (3.3)	5 (3.0)
Site of recurrence			
Distant	11 (73.3)	–	–
Local	4 (26.7)	–	–
Prior neoadjuvant chemotherapy			
Yes	7 (46.7)	76 (48.7)	83 (48.5)
No	8 (53.3)	80 (51.3)	88 (51.5)



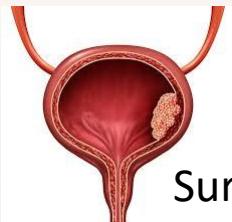
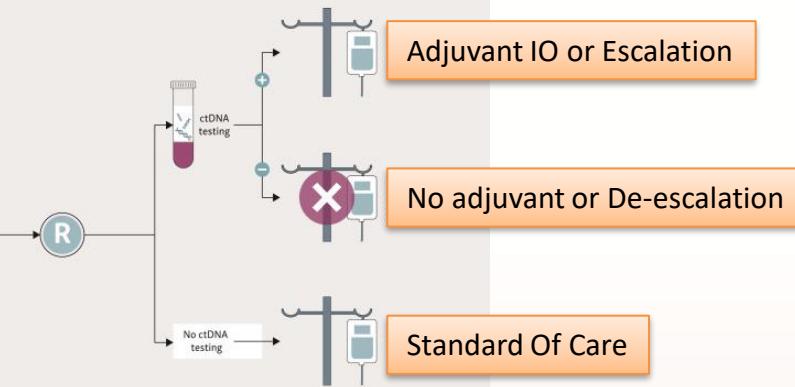
A032103 (MODERN) TRIAL





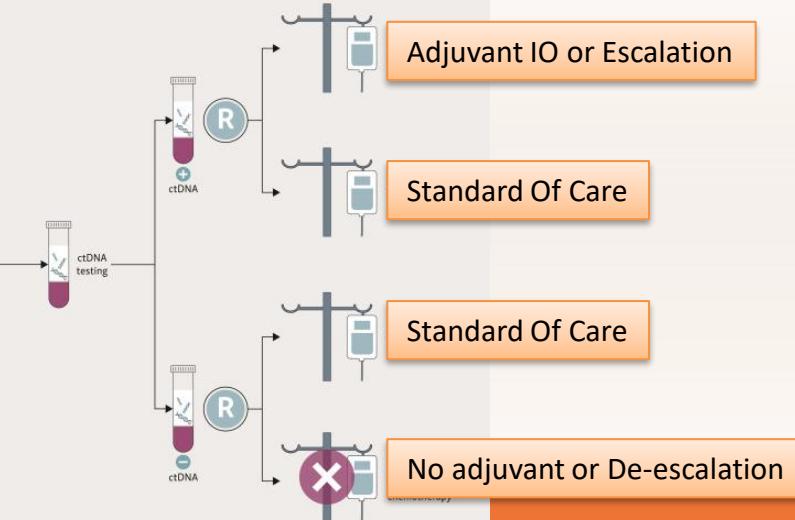
Surgery (+/-NAC+/-IO)

ctDNA baseline



Surgery (+/-NAC+/-IO)

ctDNA baseline





Genitourinary Cancer—Kidney and Bladder

Presenters summarize their novel research findings and provide background on their methodologies. Discussants analyze the significance of each abstract within the context of current knowledge, highlighting clinical application and implications for future research and practice. Abstract presenters and discussants answer questions during a moderated panel discussion.

Meeting	2025 ASCO Annual Meeting
Track	Genitourinary Cancer—Kidney and Bladder
Type	Oral Abstract Session
Location	Hall D2 Live Stream
Time	1 de junio de 2025 9:45 – 12:45 GMT-5

Chairs  **Manuela Schmidinger, MD** 

Department of Urology,
Comprehensive Cancer Center,
Medical University of Vienna

 **Elizabeth Henry, MD** 

Loyola University Medical Center

CE Credit 3 Credits
Deadline to claim credit ends 4 de septiembre
de 2025, 6:00 CEST

10:45 – 10:57 GMT-5

ABSTRACT PRESENTATION 4 

Circulating tumor DNA (ctDNA) in patients with muscle-invasive bladder cancer (MIBC) who received perioperative durvalumab (D) in NIAGARA.

 Abstract 4503

 **Thomas Powles, MD, PhD, FCRP** 

Barts Cancer Institute, Experimental
Cancer Medicine Centre, Queen Mary
University of London, St
Bartholomew's Hospital

10:57 – 11:09 GMT-5

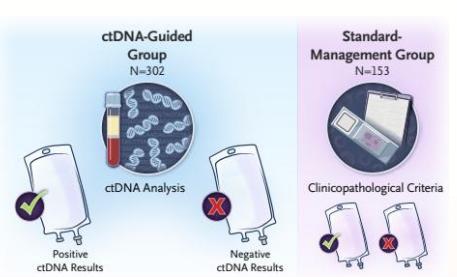
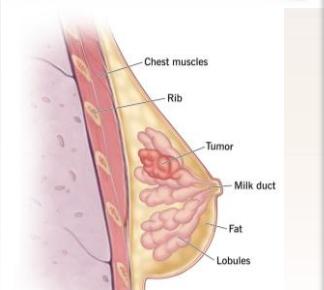
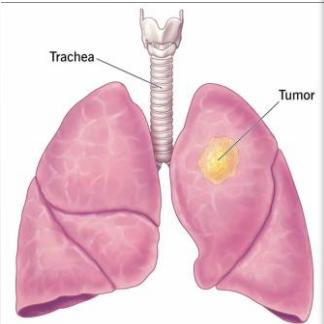
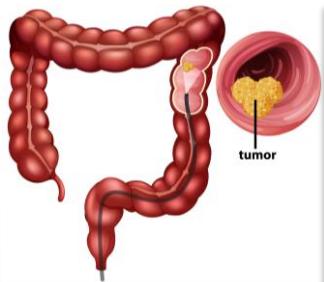
ABSTRACT PRESENTATION 5 

Mitomycin plus BCG as adjuvant intravesical



6th ANNUAL UC COURSE

Emerging personalized therapies for the management of urothelial carcinomas

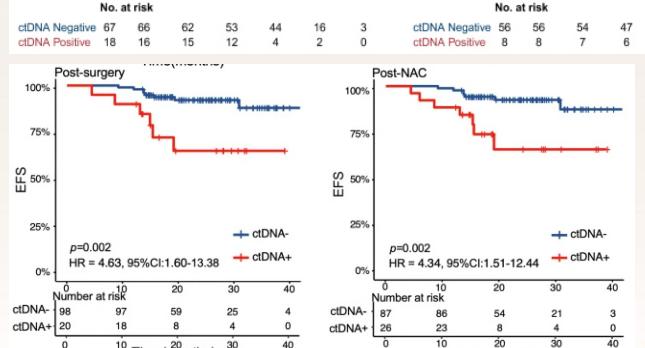
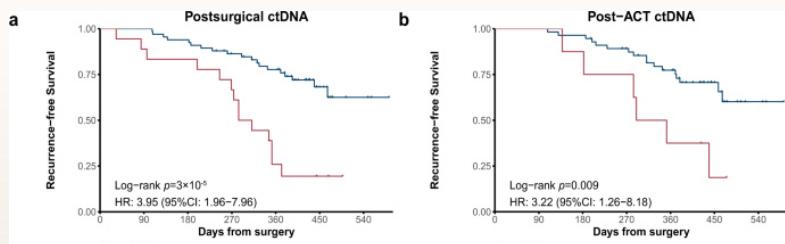
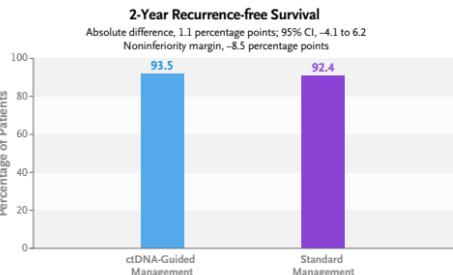
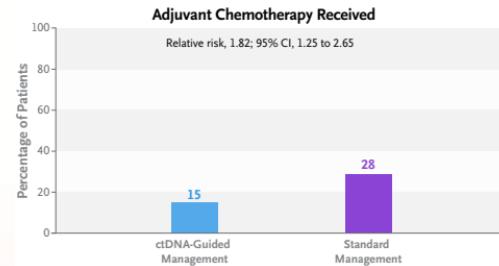


VI CURSO ANUAL DE UC

Terapias personalizadas emergentes en el manejo del carcinoma uroelácteo



ctDNA IN OTHER SOLID TUMORS





6th ANNUAL UC COURSE

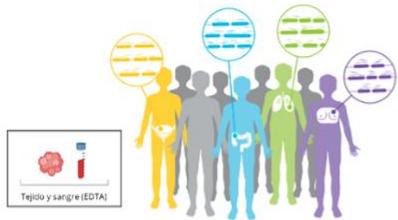
Emerging personalized therapies for the management of urothelial carcinomas

VI CURSO ANUAL DE UC

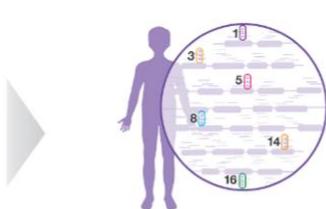
Terapias personalizadas emergentes en el manejo del carcinoma urotelial



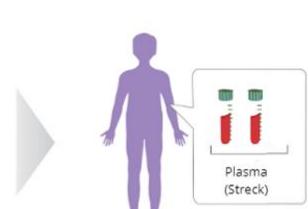
ctDNA IN CLINICAL PRACTICE



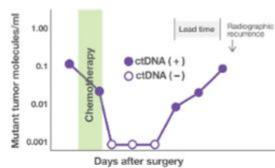
1 Secuenciación de tejido tumoral y sangre en el punto inicial



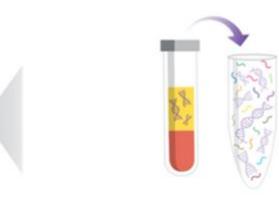
2 Selección de 16 mutaciones clonales específicas del paciente para el diseño de primers personalizados



3 a

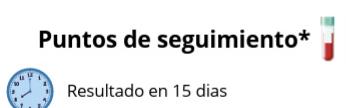
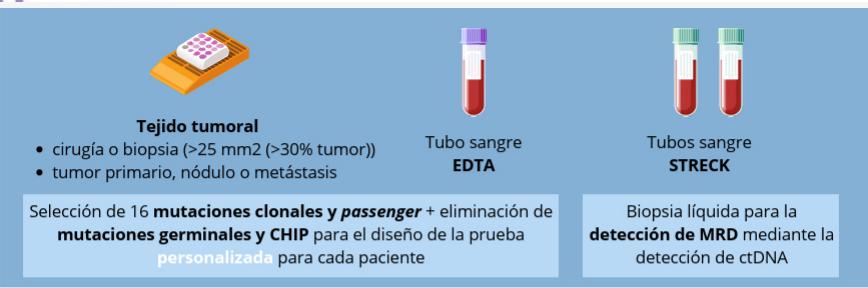
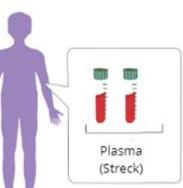


5 Análisis ultraprofundo de los datos de la NGS para detectar la presencia de ctDNA



4

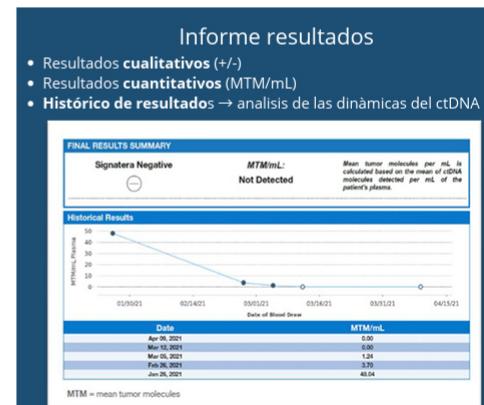
1. Extracción del ADN libre de la muestra
2. Amplificación mediante la PCR para las 16 mutaciones elegidas
3. NGS para la detección de ctDNA



La extracción de sangre debe hacerse:

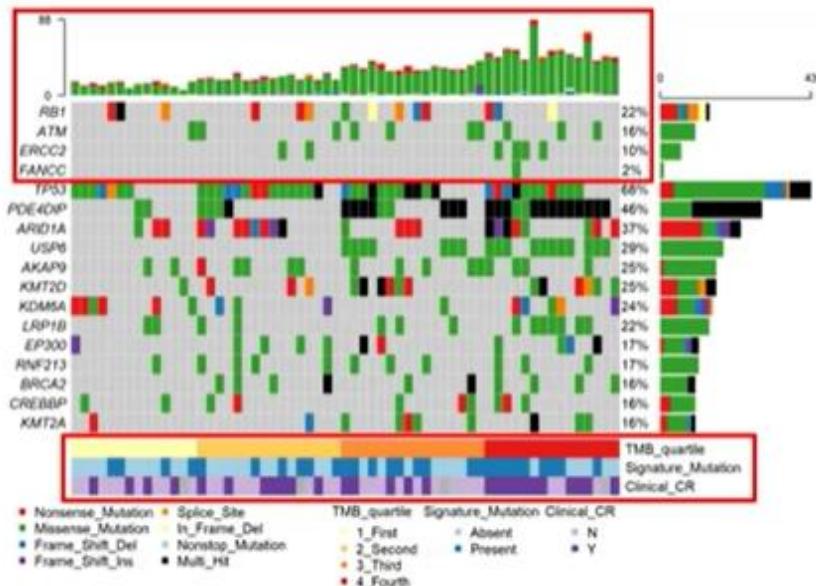
- >2 semanas post-cirugía
- >2 semanas post-tratamiento con QT

*El protocolo de seguimiento puede adaptarse a la realidad clínica de cada entidad tumoral, centro y paciente.





Can we orientate perioperative treatment by genomics features?



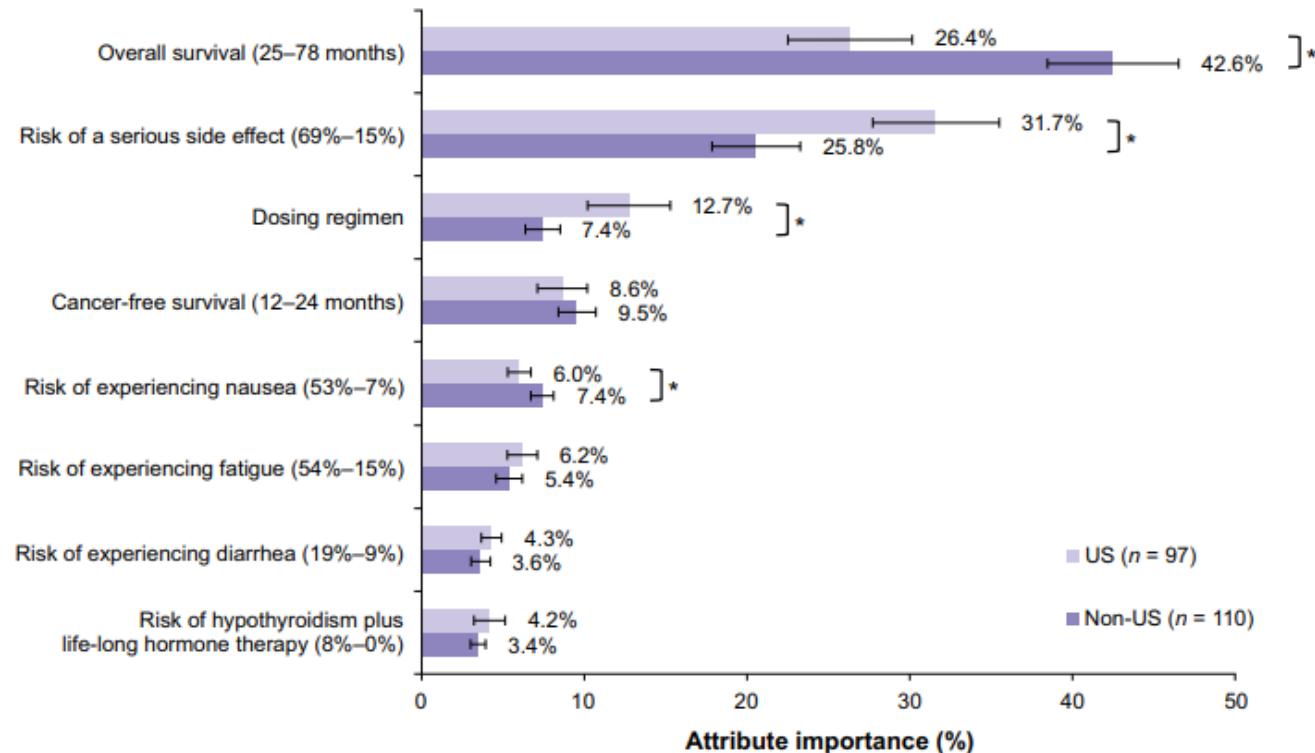
$TMB \geq 10 \text{ mut/Mb}$ ($p = 0.02$) or $mERCC2$ ($p = 0.02$) were associated with cCR or pCR

ATM, FANCC, or RB1 alterations were not associated with cCR or pCR

Correlation of genomic alterations with more relevant endpoints (i.e., bladder intact long-term survival) requires longer follow-up



Adjuvant treatment: patients` preferences





Conclusions

- Adjuvant treatment based on PD-1 inhibitors, has demonstrated a statistical and clinically significant benefit in DFS with a trend to improve OS (nivolumab/Checkmate 274, limitations from pembrolizumab/AMBASSADOR trial).
- Candidate for adjuvant IO treatment are those patients:
 - ypT2-T4a/N+ after cisplatin-neoadjuvant treatment
 - pT3-4a/N+ (no NA or not candidate to cisplatin-based adjuvant treatment) → Waiting data on perioperative randomized studies directed to cis-ineligible patients.
 - PD-L1 expression
- ctDNA is a prognostic biomarker in MIBC.
- ctDNA detection and dynamics are important in this disease—currently informative but with many potential clinical applications in the future clinical context.



MUCHAS GRACIAS POR SU ATENCIÓN

