

Metastatik Mesane ve Üst Üriner Sistem Kanserlerinde Birinci Basamak Tedavi

Dr. Deniz Tural

**Bakırköy Dr. Sadi Konuk Eğitim ve Araştırma Hastanesi
Tıbbi Onkoloji**

Ders Planı

❑ Mesane Kanseri İnsidans ve Mortalite

Metastatik Hastalık

❑ Sisplatine uygun hastada birinci basamak

❑ Sisplatine uygun olmayan hastada birinci basamak

❑ Özet

Mesane Kanseri İnsidans ve Mortalite

2019 ESTIMATED NEW CANCER CASES – US

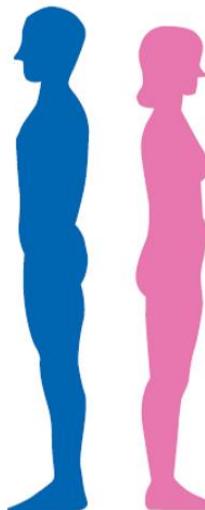
			Males	Females		
Prostate	174,650	20%		Breast	268,600	30%
Lung & bronchus	116,440	13%		Lung & bronchus	111,710	13%
Colon & rectum	78,500	9%		Colon & rectum	67,100	8%
Urinary bladder	61,700	7%		Uterine corpus	61,880	7%
Melanoma of the skin	57,220	7%		Melanoma of the skin	39,260	4%
Kidney & renal pelvis	44,120	5%		Thyroid	37,810	4%
Non-Hodgkin lymphoma	41,090	5%		Non-Hodgkin lymphoma	33,110	4%
Oral cavity & pharynx	38,140	4%		Kidney & renal pelvis	29,700	3%
Leukemia	35,920	4%		Pancreas	26,830	3%
Pancreas	29,940	3%		Leukemia	25,860	3%
All Sites	870,970	100%		All Sites	891,480	100%



Mesane Kanseri İnsidans ve Mortalite

2019 ESTIMATED CANCER DEATHS – US

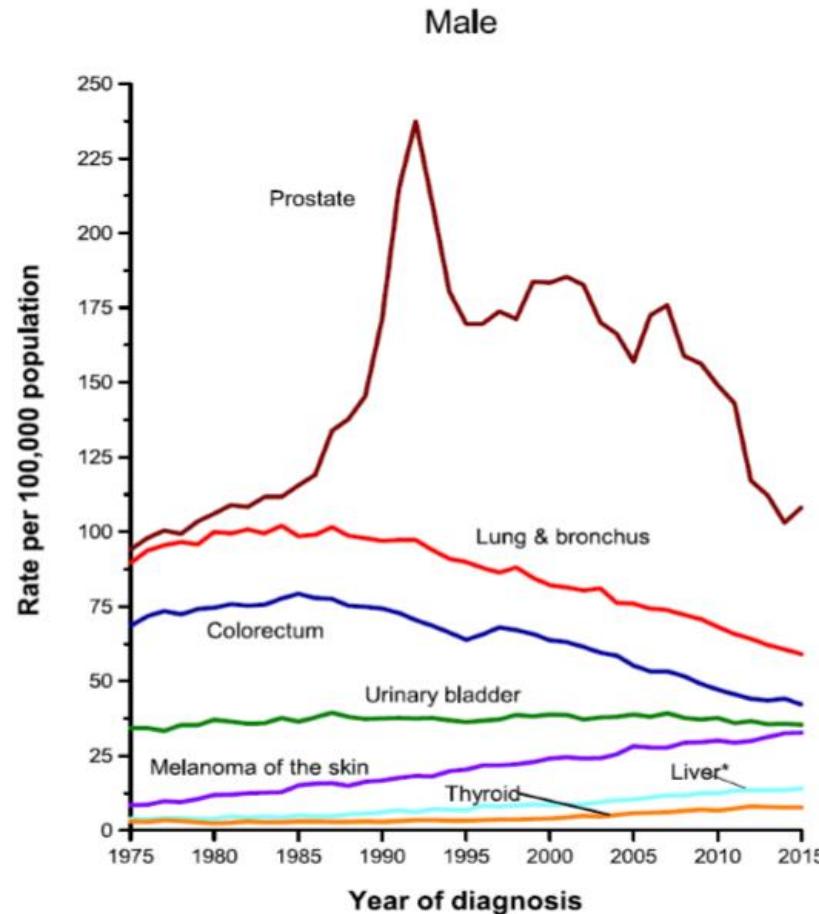
	Males	Females	
Lung & bronchus	76,650 24%		Lung & bronchus 66,020 23%
Prostate	31,620 10%		Breast 41,760 15%
Colon & rectum	27,640 9%		Colon & rectum 23,380 8%
Pancreas	23,800 7%		Pancreas 21,950 8%
Liver & intrahepatic bile duct	21,600 7%		Ovary 13,980 5%
Leukemia	13,150 4%		Uterine corpus 12,160 4%
Esophagus	13,020 4%		Liver & intrahepatic bile duct 10,180 4%
<u>Urinary bladder</u>	<u>12,870 4%</u>		Leukemia 9,690 3%
Non-Hodgkin lymphoma	11,510 4%		Non-Hodgkin lymphoma 8,460 3%
Brain & other nervous system	9,910 3%		Brain & other nervous system 7,850 3%
All Sites	321,670 100%		All Sites 285,210 100%



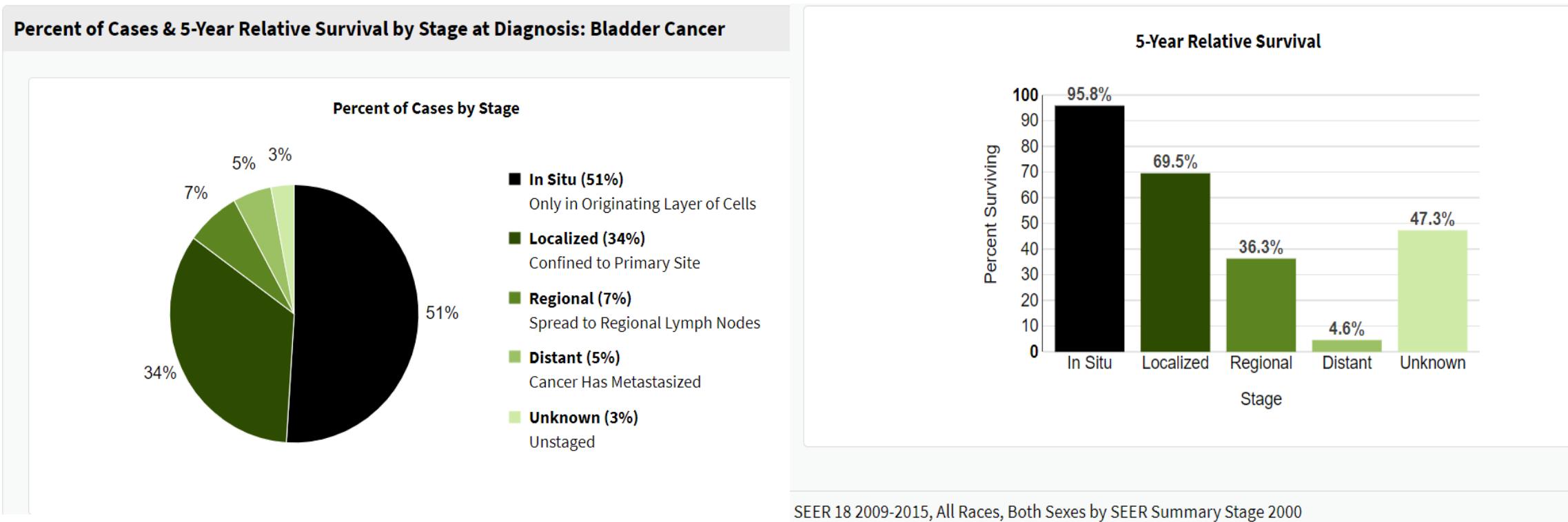
Mesane Kanseri İnsidans ve Mortalite

TEMPORAL TRENDS IN THE INCIDENCE OF BLADDER CANCER

- The incidence of several major cancers has fallen over the last 40 years
 - There have been increased incidence in a few (melanoma and liver for example)
- No major changes in the incidence of bladder cancer in the last 40 years



Mesane Kanseri İnsidans ve Mortalite



Metastatik Mesane Kanseri Birinci Basamak Kemoterapi

Selected randomized clinical trial comparisons of chemotherapy for metastatic bladder cancer

Study (year of publication)	n	Interventions	Response rate (%)	Median OS (months)	Toxicity
Logothetis <i>et al.</i> ³⁶ (1990)	110	MVAC versus CISCA	65 versus 46; <i>P</i> <0.05	15.5 versus 10.1; <i>P</i> = 0.0003	MVAC>CISCA
Loehrer <i>et al.</i> ³⁷ (1992)	269	MVAC versus cisplatin	39 versus 12; <i>P</i> <0.0001	12.5 versus 8.2; <i>P</i> = 0.0002	MVAC>cisplatin
Mead <i>et al.</i> ³⁹ (1998)	214	CMV versus MV	46 versus 19 (<i>P</i> value not reported)	7.0 versus 4.5; <i>P</i> = 0.0065	CMV>MV
von der Maase <i>et al.</i> ^{70,71} (2000,2005)	405	GC versus MVAC	49 versus 46; <i>P</i> =0.51	14.0 versus 15.2; <i>P</i> =0.66	MVAC>GC
Stemberg <i>et al.</i> ^{75,76} (2001, 2006)	263	ddMVAC versus MVAC	72 versus 58; <i>P</i> =0.016	15.1 versus 14.9 (<i>P</i> value not reported; 5-year OS was 21.8% versus 13.5%, <i>P</i> = 0.04)	MVAC>ddMVAC
Bamias <i>et al.</i> ⁸⁴ (2013)	130	ddGC versus ddMVAC	32 versus 27; <i>P</i> = 0.67	18 versus 19; <i>P</i> = 0.98	ddMVAC>ddGC

CISCA, cisplatin, cyclophosphamide, and doxorubicin; CMV, cisplatin, methotrexate, and vinblastine; ddGC, dose-dense gemcitabine and cisplatin; ddMVAC, dose-dense methotrexate, vinblastine, doxorubicin, and cisplatin; GC, gemcitabine and cisplatin; MV, methotrexate and vinblastine; MVAC, methotrexate, vinblastine, doxorubicin, and cisplatin; n, number of patients; OS, overall survival.

Metastatik Birinci Basamak Kemoterapi Sonuçları

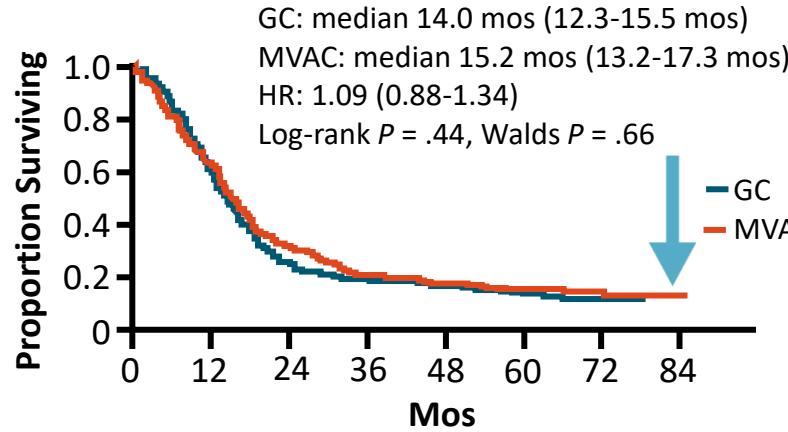
Sisplatin Uygun

Gemcitabine + Cisplatin^[1,2]

ORR: 49%

CR: 12%

Median OS: 14.0 mos

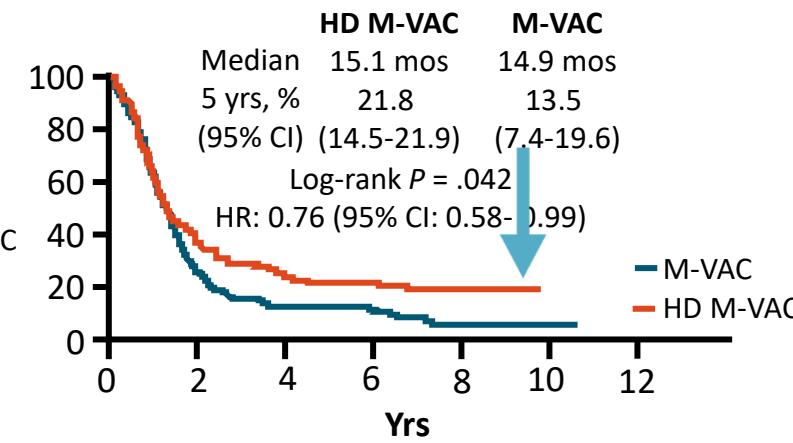


Dose Dense MVAC^[3]

ORR: 72%

CR: 25%

Median OS: 15.1 mos



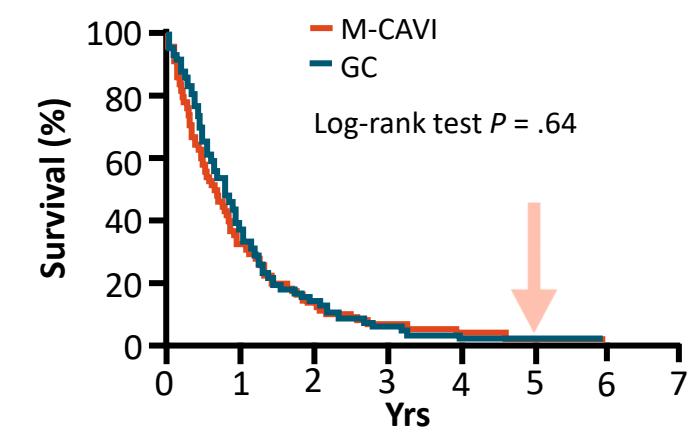
Sisplatin uygun değil

Gemcitabine + Carboplatin^[4]

ORR: 36%

CR: 3%

Median OS: 9.3 mos



1. von der Maase H, et al. J Clin Oncol. 2005;23:4602-4608. 2. von der Maase H, et al. J Clin Oncol. 2000;18:3068-3077.

3. Sternberg CN, et al. Eur J Cancer. 2006;42:50-54. 4. De Santis M, et al. J Clin Oncol. 2012;30:191-199.

Metastatik Birinci Basamak Kemoterapi Sonuçları

Cisplatin-based yields higher CR rates than carboplatin-based therapy in UC

Objective response

Source	Cisplatin-based		Carboplatin-based		Weight (%)	RR (95% CI)	P value
	Events	Total	Events	Total			
Petrioli et al. [15]	12	23	9	23	20.64	1.75 (1.05–2.93)	
Bellmunt et al. [13]	20	28	11	27	16.58	1.33 (0.70–2.54)	
Drecier et al. [2]	14	36	12	39	21.23	1.26 (0.68–2.36)	
Dogliotti et al. [14]	27	41	22	39	41.55	1.17 (0.82–1.66)	
Overall (Mantel-Haenszel method)	73	128	54	128		1.34 (1.04–1.71)	0.02

Heterogeneity chi-square test = 1.68 (d.f. = 3); P = 0.642; I-squared test (variation in RR attributable to heterogeneity) = 0.0%.

RR, risk ratio; CI, confidence interval.

Complete response

Source	Cisplatin-based		Carboplatin-based		Weight (%)	RR (95% CI)	P value
	Events	Total	Events	Total			
Petrioli et al. [15]	7	28	3	27	51.80	2.25 (0.65–7.18)	
Bellmunt et al. [13]	3	23	0	23	14.54	1.17 (0.07–18.58)	
Drecier et al. [2]	5	36	1	39	16.28	5.42 (0.66–44.12)	
Dogliotti et al. [14]	8	41	1	39	17.38	7.61 (0.10–58.06)	
Overall (Mantel-Haenszel method)	23	128	5	128		3.54 (1.48–8.49)	0.005

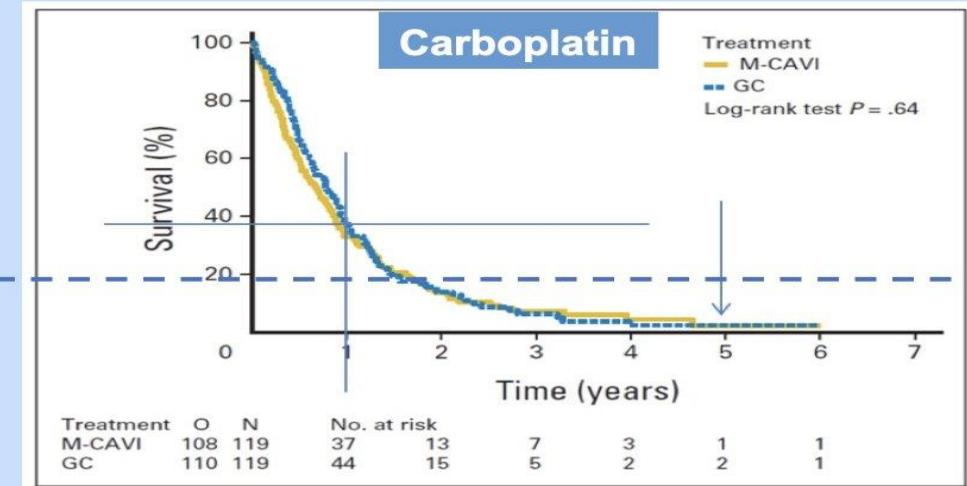
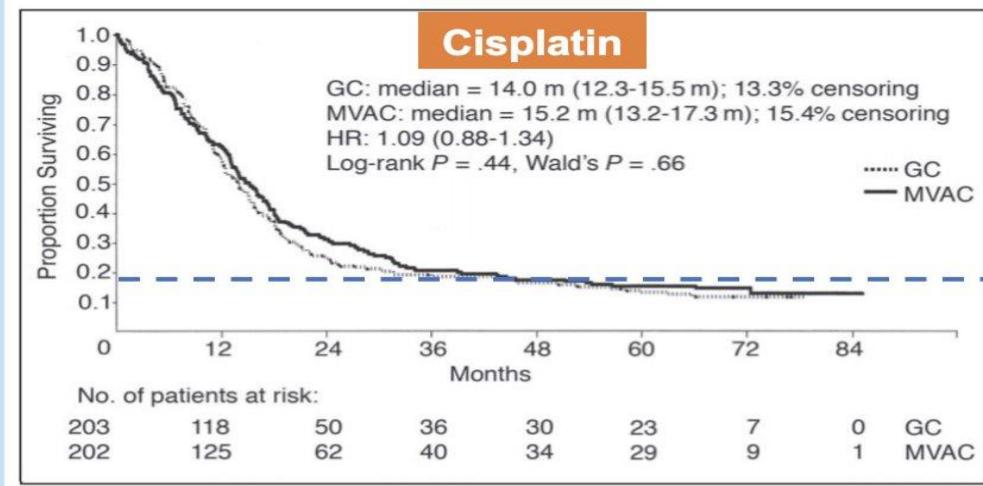
Heterogeneity chi-square test = 1.83 (d.f. = 3); P = 0.609; I-squared test (variation in RR attributable to heterogeneity) = 0.0%.

RR, risk ratio; CI, confidence interval.

Galsky et al, Ann Oncol, 2011

Metastatik Birinci Basamak Kemoterapi Sonuçları

Where is the tail of the curve with carboplatin-based chemotherapy?



1. von der Maase H, et al. J Clin Oncol. 2005. PMID: 16034041
2. De Santis M, et al. EORTC 30986. J Clin Oncol. 2011. PMID: 19786668

Metastatik Birinci Basamak Kemoterapi Sonuçları

Supplementary Table S3. Multivariate Cox Regression Analysis for Overall Survival in the Overall Population.

Variable*	Levels	Parameter Estimate	Standard Error	Wald Chi-Square Statistic	P-Value (2-sided)	HR (95% CI)
Treatment group	Avelumab plus BSC	-0.370	0.1143	10.46	0.0012	0.69 (0.552-0.865)
	BSC alone					
Best response to first-line chemotherapy	Stable disease					
	Complete or partial response	-0.079	0.1241	0.41	0.5242	0.92 (0.724-1.179)
Site of baseline metastasis	Nonvisceral					
	Visceral	0.188	0.1221	2.36	0.1244	1.21 (0.950-1.533)
Age	<65 years					
	≥65 years	-0.215	0.1225	3.07	0.0796	0.81 (0.635-1.026)
Race	White					
	Asian	-0.252	0.1466	2.95	0.0857	0.78 (0.583-1.036)
	Other	-0.589	0.2207	7.11	0.0076	0.56 (0.360-0.855)
PD-L1 status	Positive					
	Negative	0.294	0.1212	5.87	0.0154	1.34 (1.058-1.701)
	Unknown	0.256	0.1981	1.68	0.1956	1.29 (0.876-1.905)
First-line chemotherapy regimen	Gemcitabine plus cisplatin					
	Gemcitabine plus carboplatin	0.262	0.1218	4.64	0.0312	1.30 (1.024-1.651)
	Gemcitabine plus cisplatin/carboplatin	-0.314	0.2927	1.15	0.2840	0.73 (0.412-1.297)
ECOG performance status	0					
	≥1	0.462	0.1149	16.18	<0.0001	1.59 (1.267-1.988)
Liver metastasis	Yes					
	No	-0.421	0.1621	6.73	0.0095	0.66 (0.478-0.902)

BSC, best supportive care; ECOG, Eastern Cooperative Oncology Group; PD-L1, programmed cell death ligand 1.

* Explanatory variables were selected using a stepwise selection procedure. The level of significance for a variable to enter the model was 0.15 and the significance level for removal was 0.04.

Hangi Kemoterapi Rejimi ?

Trial design (3)

- 500 patients included in 28 centers from 2013 to 2018
(493 patients available for intent-to-treat analysis)
- Adjuvant (n=56) and Neoadjuvant (n=437) (88%)
- Primary end-point : Progression Free Survival at 3 years
- Final analysis : Overall and Specific Survival at 5 years



Hangi Kemoterapi Rejimi ?

PFS at 3 years

2021 ESMO congress
16-21 September 2021

9

A

Perioperative CT

dd-MVAC (n=248)

GC (n=245)

Progression-free survival (probability)

Time (months)

HR=0.77 (95% CI, 0.57–1.02)
P=0.066
Padj=0.077

B

Neoadjuvant CT

dd-MVAC (n=219)

GC (n=218)

Progression-free survival (probability)

Time (months)

HR=0.70 (95% CI, 0.51–0.96)
P=0.025

Perioperative dd-MVAC improved 3-y PFS over GC

In the **neoadjuvant group**, better bladder tumor local control with a **significant improvement on 3-y PFS in the dd-MVAC arm**

Pfister et al. J Clin Oncol 2022

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Hangi Kemoterapi Rejimi ?

Results (1) Overall Survival at 5 years

10

A

All patients

dd-MVAC (n=248)

GC (n=245)

Overall survival (probability)

Time (years)

HR=0.77 (95% CI, 0.58–1.03)
P=0.078
Padj=0.098

No. at risk

	dd-MVAC	GC
248	217	193
245	207	184
171	157	134
157	144	126
126	112	112

B

Neoadjuvant CT

dd-MVAC (n=218)

GC (n=219)

Overall survival (probability)

Time (years)

HR=0.71 (95% CI, 0.52–0.97)
P=0.032

No. at risk

	dd-MVAC	GC
218	193	184
219	174	163
174	156	140
156	144	119
144	116	100

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Metastatik Mesane Kanseri Birinci Basamak Tedavi Seçimi



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NCCN Guidelines Version 3.2023 Bladder Cancer

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PRINCIPLES OF SYSTEMIC THERAPY

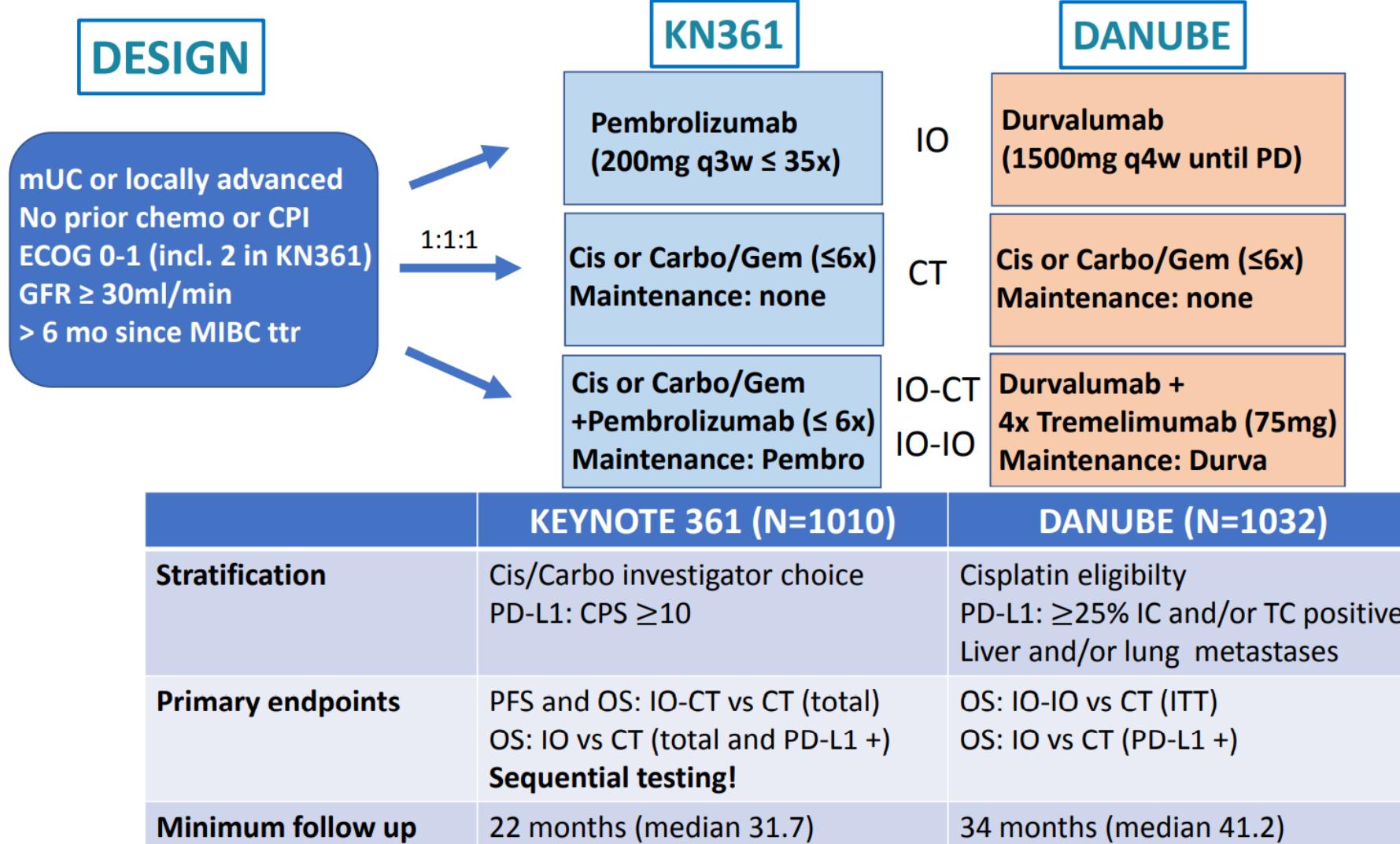
First-Line Systemic Therapy for Locally Advanced or Metastatic Disease (Stage IV)	
Cisplatin eligible	<p><u>Preferred regimens</u></p> <ul style="list-style-type: none">Gemcitabine and cisplatin⁴ (category 1) followed by avelumab maintenance therapy (category 1)^{a,11}DDMVAC with growth factor support (category 1)^{2,8} followed by avelumab maintenance therapy (category 1)^{a,11}
Cisplatin ineligible	<p><u>Preferred regimens</u></p> <ul style="list-style-type: none">Gemcitabine and carboplatin¹² followed by avelumab maintenance therapy (category 1)^{a,11}Pembrolizumab¹⁴ (for the treatment of patients with locally advanced or metastatic urothelial carcinoma who are not eligible for any platinum-containing chemotherapy)Pembrolizumab and enfortumab vedotin-ejfv¹⁷ <p><u>Other recommended regimens</u></p> <ul style="list-style-type: none">Gemcitabine¹⁵Gemcitabine and paclitaxel¹⁶Atezolizumab¹³ (only for patients whose tumors express PD-L1^b) (category 2B) <p><u>Useful under certain circumstances</u></p> <ul style="list-style-type: none">Ifosfamide, doxorubicin, and gemcitabine¹⁸ (for patients with good kidney function and good performance status)Atezolizumab¹³ (only for patients who are not eligible for any platinum-containing chemotherapy regardless of PD-L1 expression) (category 3)

Sisplatin Kombinasyonlu Kemoterapiye Uygun Olmayan Hasta Grubu

- ECOG PS ≥ 2
- Kreatinin klirensi < 60ml/dk
- İşitme kaybı olması grade2>
- Periferik nöropati grade2>
- KKY olması (NYHA class III)

Galsky MD et al. A consensus definition of patient with metastatic urothelial carcinoma who are unfit for cisplatin-based chemotherapy. Lancet 2011

Metastatik Mesane Kanseri Birinci Basamak Platin bazlı kemoterapi+ İmmün kontrol noktası inhibitörleri



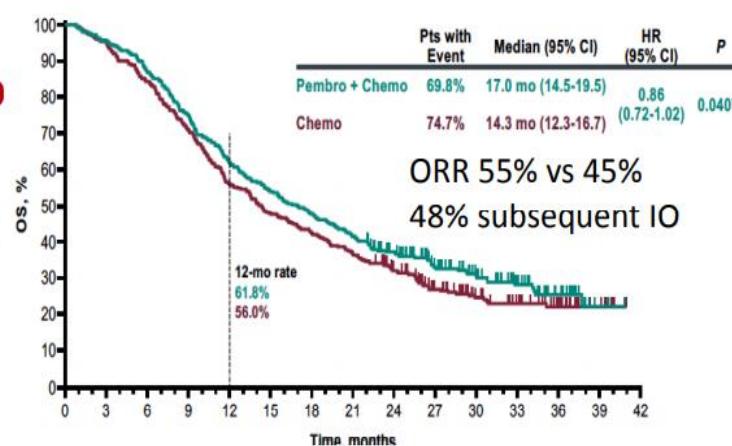
Metastatik Mesane Kanseri Birinci Basamak Platin bazlı kemoterapi+ İmmün kontrol noktası inhibitörleri

Overall survival

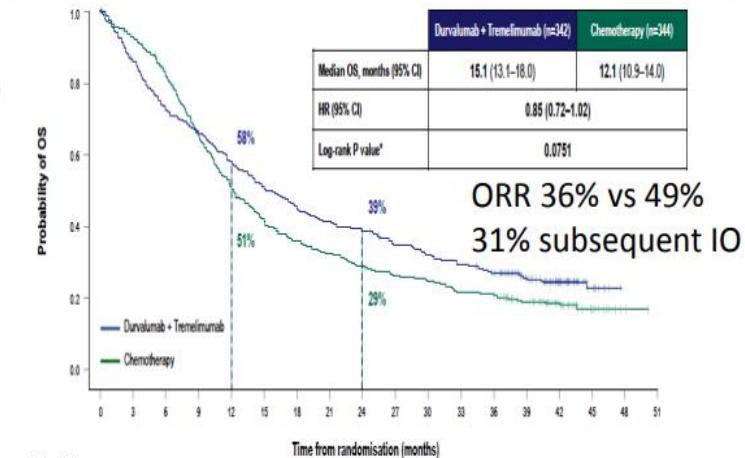
Combination vs Chemo

TOTAL population (ITT)

KEYNOTE 361 –IO-CT vs CT (1°EP)

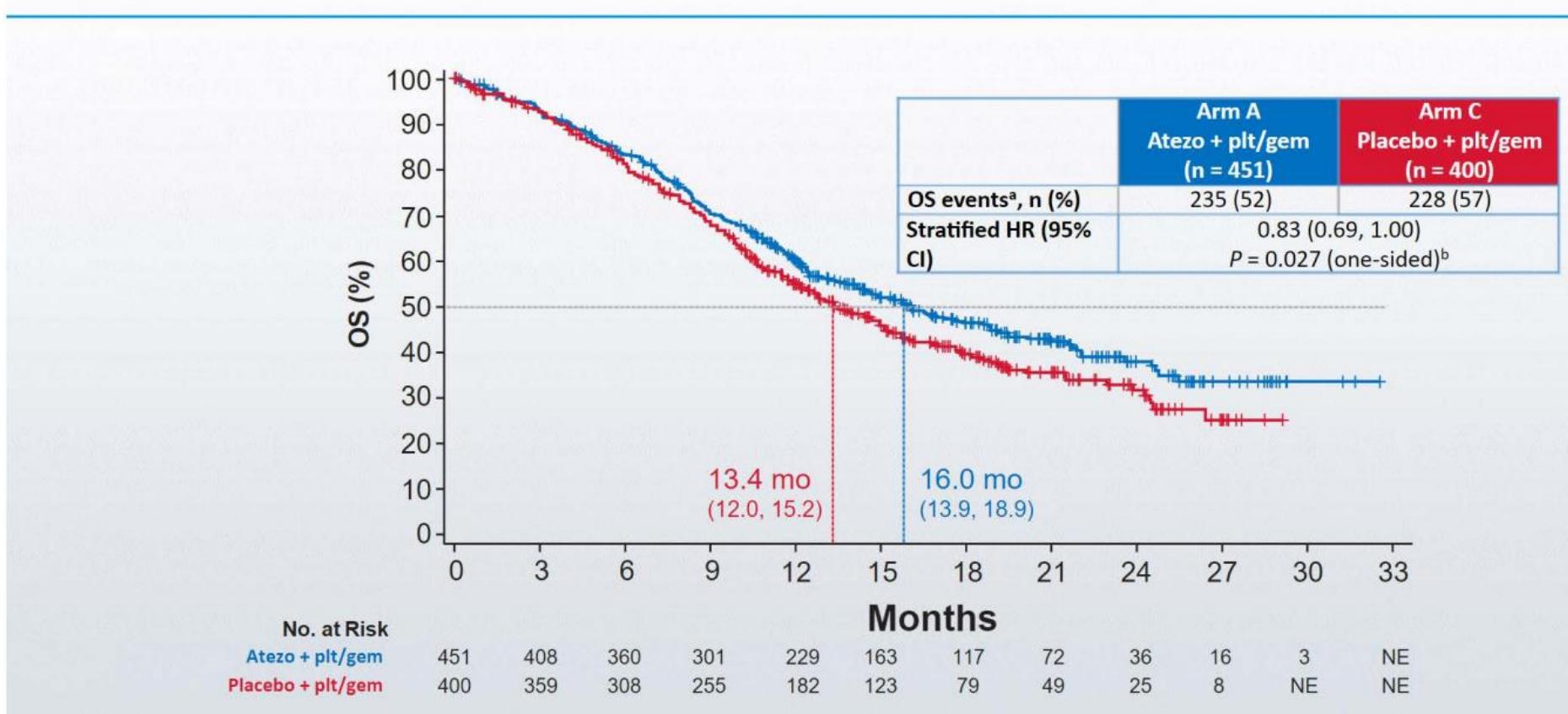


DANUBE – IO-IO vs CT (1°EP)



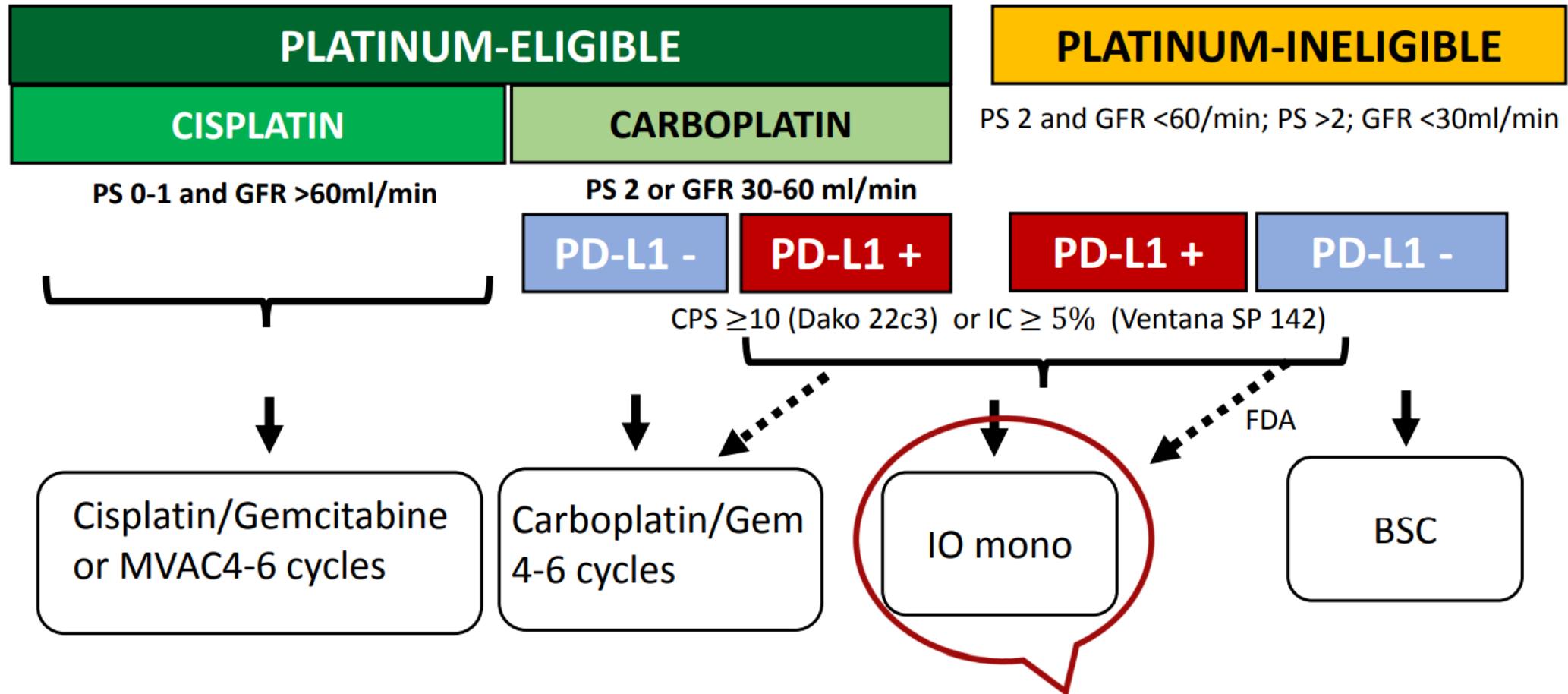
Metastatik Mesane Kanseri Birinci Basamak Platin bazlı kemoterapi+ İmmün kontrol noktası inhibitörleri

IMvigor130 Interim OS: ITT (Arm A vs Arm C)



Galsky et al, Lancet 2020 May; Grande ESMO 2019

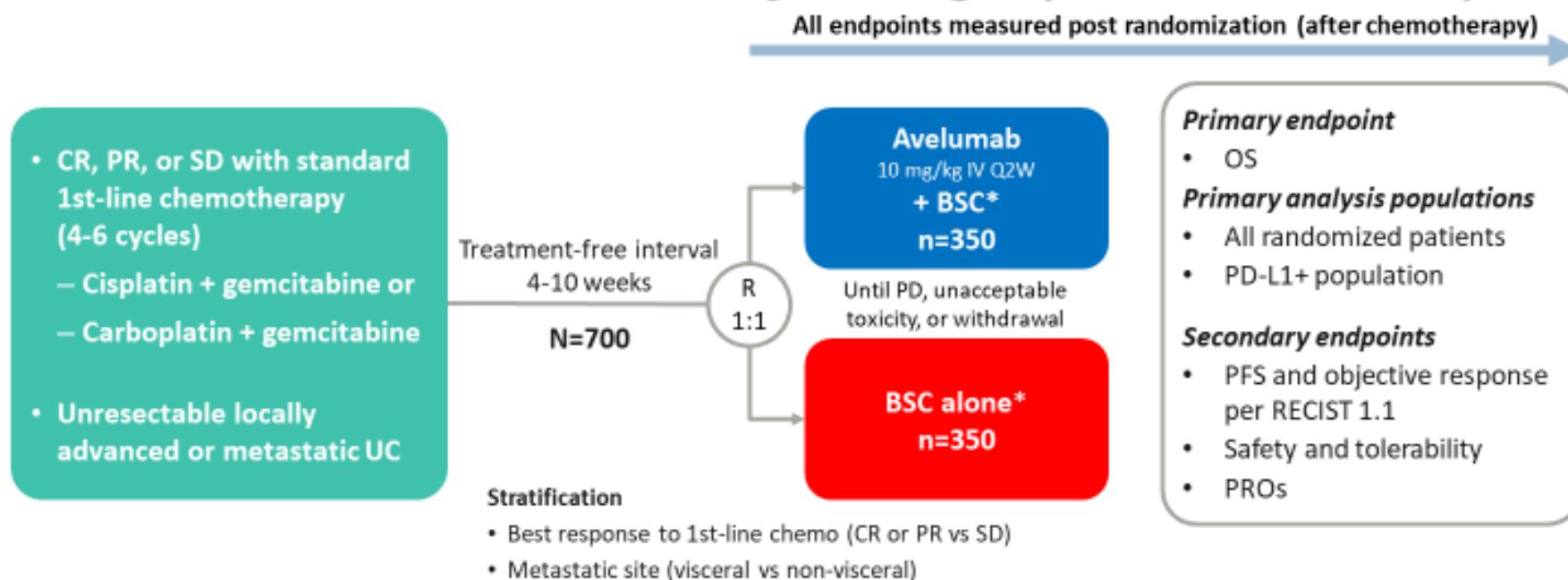
Metastatik Mesane Kanseri Birinci Basamak Tedavi Seçimi



Pembrolizumab Lancet Oncology 2017/JCO 2020
Atezolizumab Lancet 2017

Metastatik Mesane Kanseri Birinci Basamak Tedavi Platin bazlı kemoterapi Sonrası İdame Avelumab

JAVELIN Bladder 100 study design (NCT02603432)



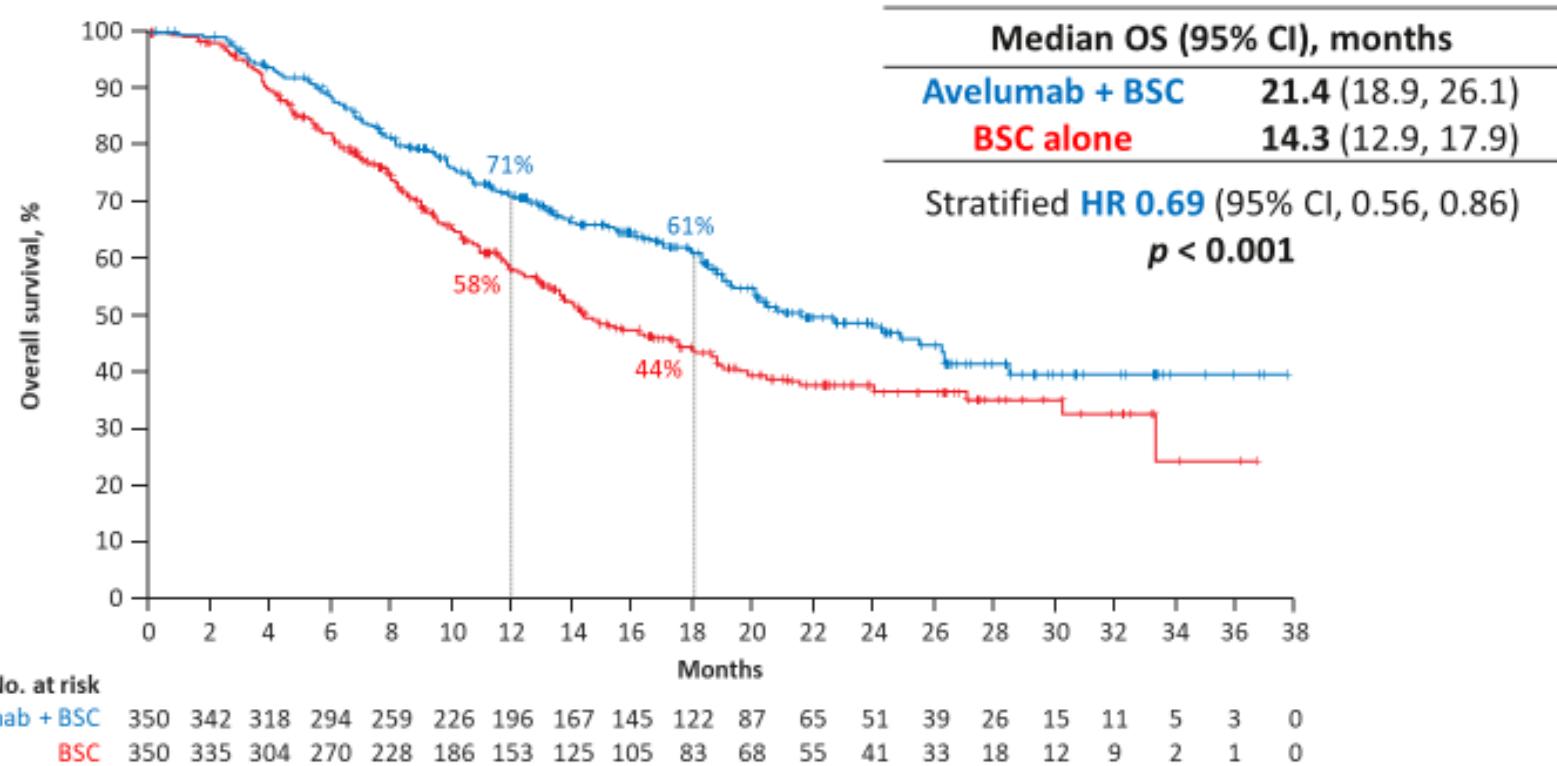
PD-L1+ status was defined as PD-L1 expression in ≥25% of tumor cells or in ≥25% or 100% of tumor-associated immune cells if the percentage of immune cells was >1% or ≤1%, respectively, using the SP263 assay; 358 patients (51%) had a PD-L1-positive tumor

BSC, best supportive care; CR, complete response; IV, intravenous; PR, partial response; PRO, patient reported outcome; Q2W, every 2 weeks; R, randomization; RECIST 1.1, Response Evaluation Criteria in Solid Tumors version 1.1; SD, stable disease

*BSC (eg, antibiotics, nutritional support, hydration, or pain management) was administered per local practice based on patient needs and clinical judgment; other systemic antitumor therapy was not permitted, but palliative local radiotherapy for isolated lesions was acceptable

Metastatik Mesane Kanseri Birinci Basamak Tedavi Platin bazlı kemoterapi Sonrası İdame Avelumab

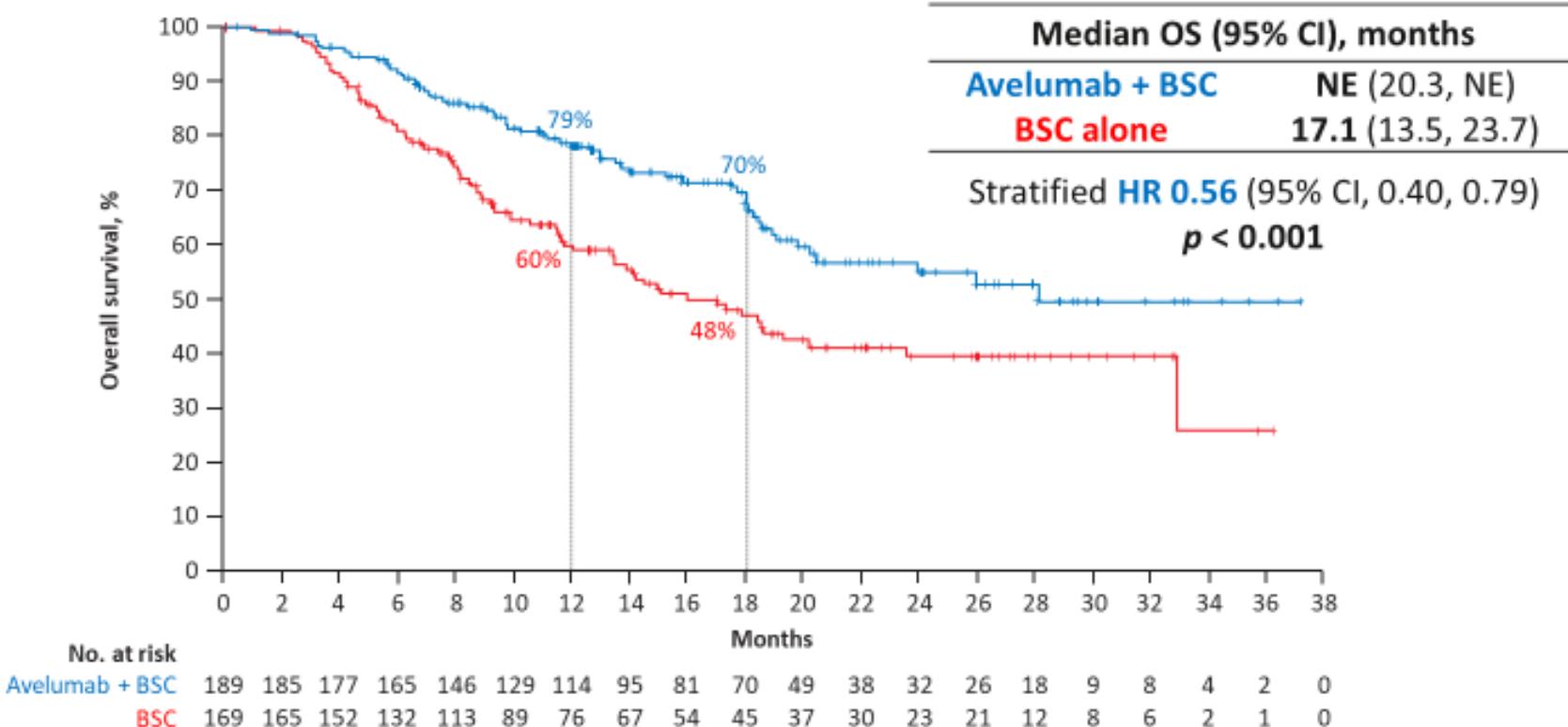
OS in the overall population



OS was measured post randomization (after chemotherapy); the OS analysis crossed the prespecified efficacy boundary based on the alpha-spending function ($P<0.0053$)

Metastatik Mesane Kanseri Birinci Basamak Tedavi Platin bazlı kemoterapi Sonrası İdame Avelumab

OS in the PD-L1+ population



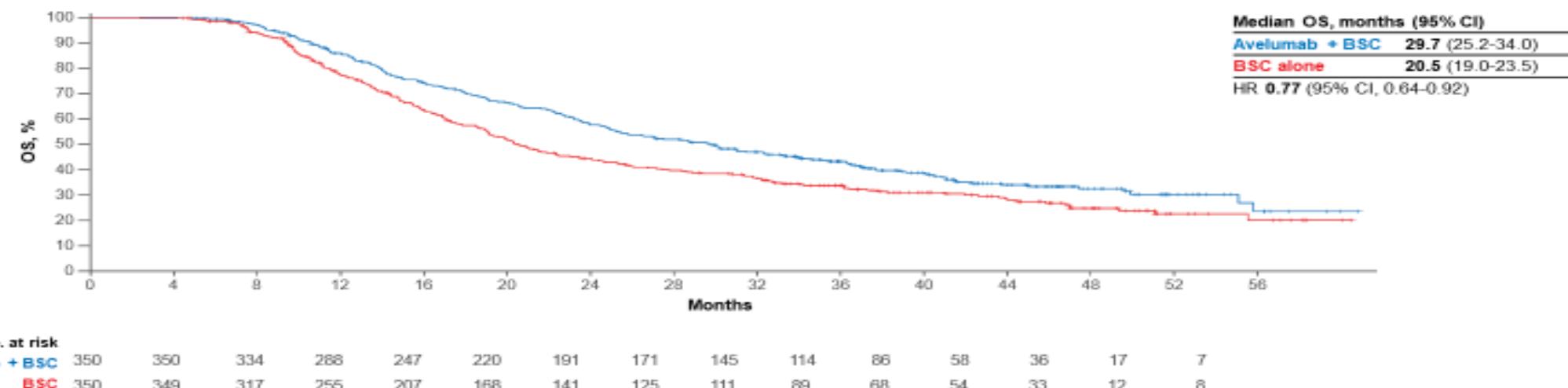
OS was measured post randomization (after chemotherapy); the OS analysis crossed the prespecified efficacy boundary based on the alpha-spending function ($P < 0.0014$). NE, not estimable

Metastatik Mesane Kanseri Birinci Basamak Tedavi Platin bazlı kemoterapi Sonrası İdame Avelumab

Long-term Analysis Data Cut-off: 4th June 2021

OS From the Start of 1L CT in All Randomized Patients¹

Post hoc analysis



In the overall population, median OS measured from the start of 1L chemotherapy was 29.7 months (95% CI, 25.2-34.0) in the avelumab + BSC arm and 20.5 months (95% CI, 19.0-23.5) in the BSC alone arm (HR, 0.77 [95% CI, 0.636-0.921])

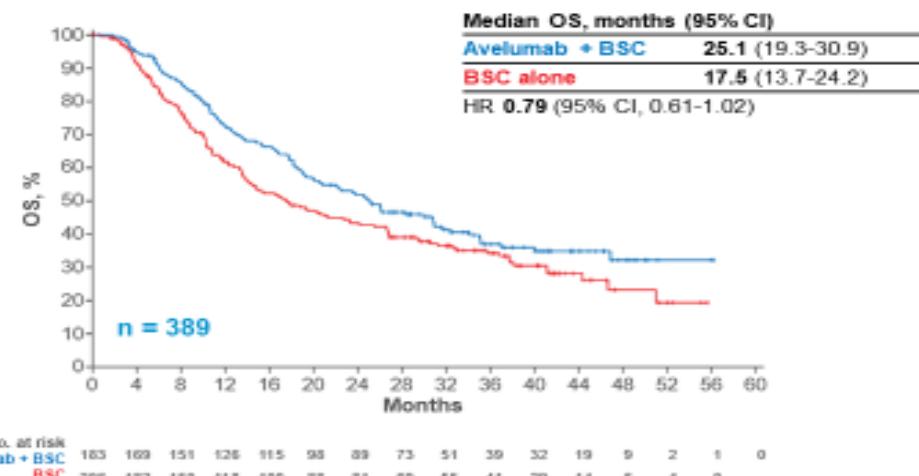
Metastatik Mesane Kanseri Birinci Basamak Tedavi Platin bazlı kemoterapi Sonrası İdame Avelumab

Long-term Analysis Data Cut-off: 4th June 2021

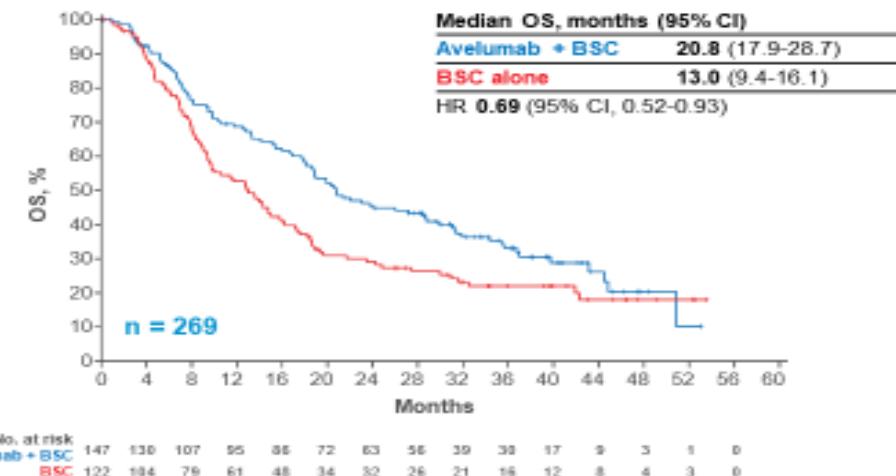
OS From the Start of Randomization by 1L CT Regimen¹

Post hoc analysis

Gemcitabine + cisplatin



Gemcitabine + carboplatin



OS was longer with avelumab + BSC vs BSC alone in patients irrespective of 1L chemotherapy regimen received

1L, first-line; BSC, best supportive care; CI, confidence interval; HR, hazard ratio; OS, overall survival.

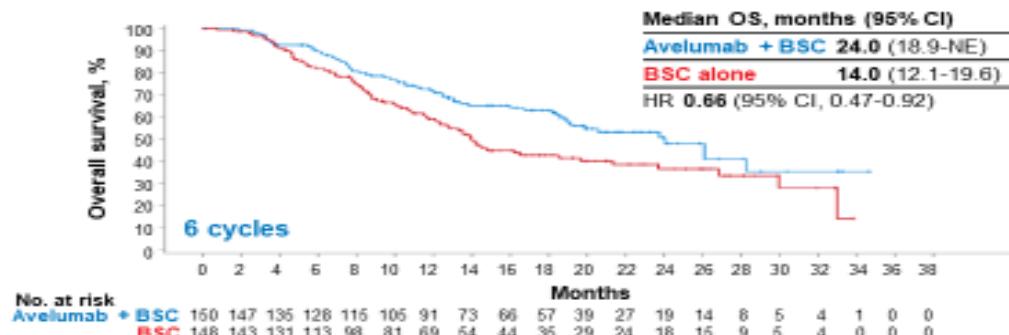
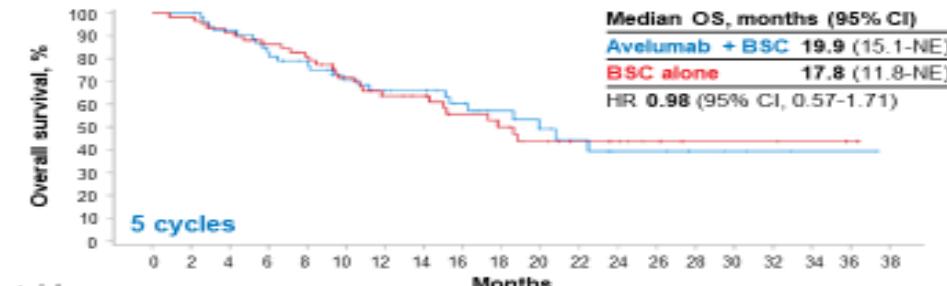
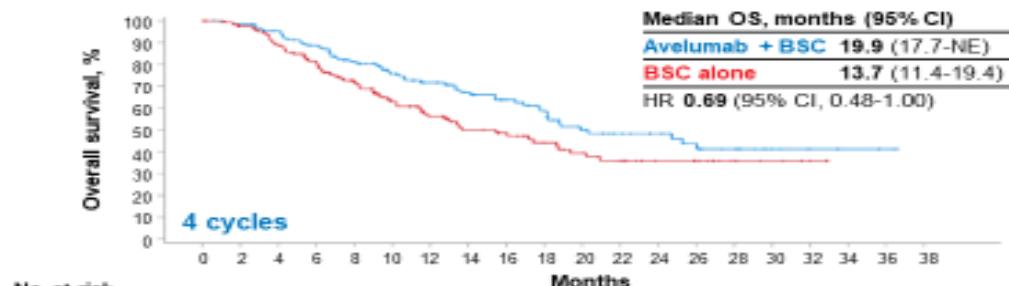
1. Sidhar SS, et al. Poster 608. Presented at: ASCO GU Symposium; February 16-18, 2023; San Francisco, CA.

Metastatik Mesane Kanseri Birinci Basamak Tedavi Platin bazlı kemoterapi Sonrası İdame Avelumab

Primary Analysis Data Cut-off: 21st October 2019

Survival by Number of 1L Platinum-Containing CT Cycles¹

Post hoc analysis

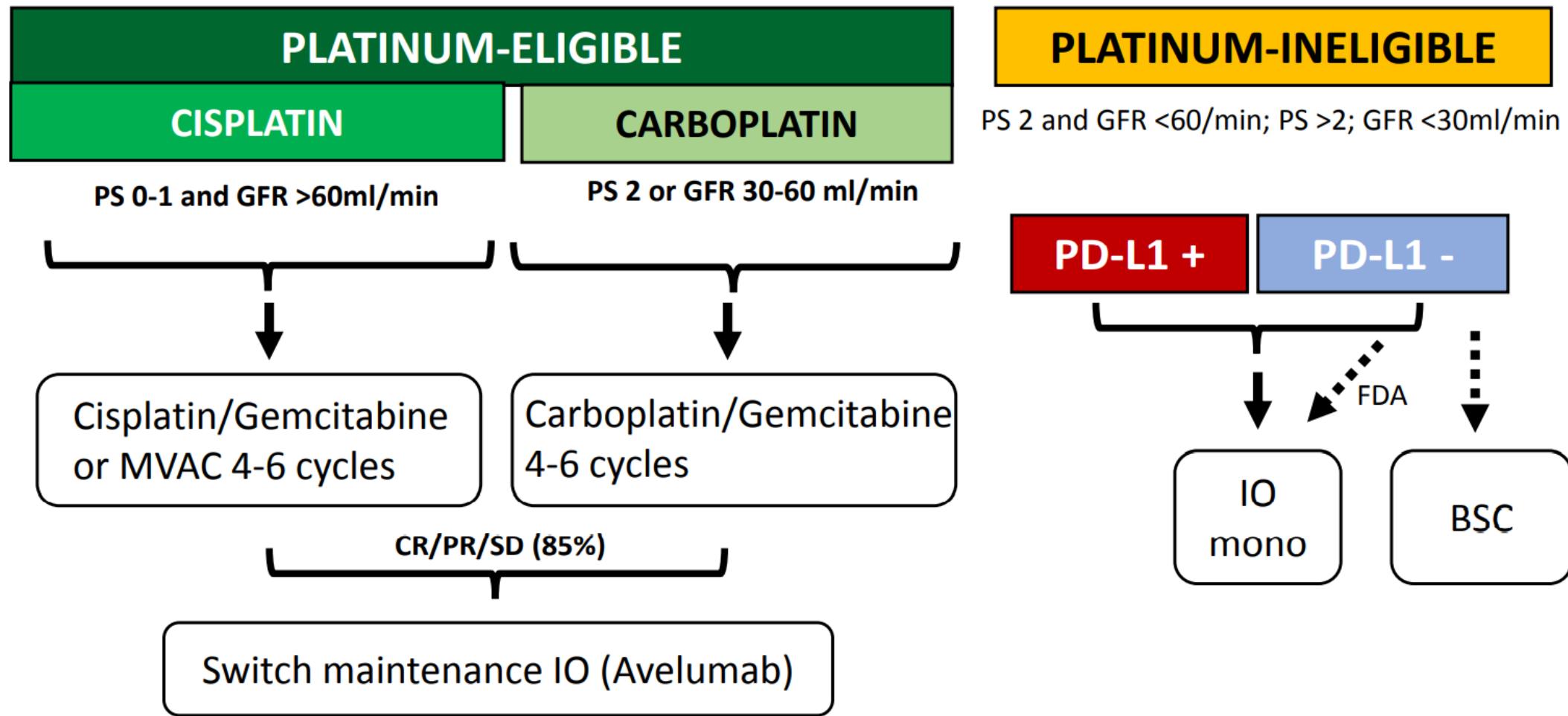


OS was prolonged with avelumab + BSC vs BSC alone across subgroups with differing cycles of 1L CT

No significant treatment-by-cycle interaction (at p<0.05 level) was observed

¹L, first line; BSC, best supportive care; CI, confidence interval; HR, hazard ratio; NE, not estimable; OS, overall survival; PD-L1, programmed death ligand-1; PFS, progression-free survival.
1. Powles T, et al. Poster 4520. Presented at: ASCO Virtual Annual Meeting. June 4-8, 2021.

Metastatik Mesane Kanseri Birinci Basamak Tedavi Seçimi



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First-Line Systemic Therapy for Locally Advanced or Metastatic Disease (Stage IV)	
Cisplatin eligible	<p><u>Preferred regimens</u></p> <ul style="list-style-type: none">• Gemcitabine and cisplatin⁴ (category 1) followed by avelumab maintenance therapy (category 1)^{a,11}• DDMVAC with growth factor support (category 1)^{2,8} followed by avelumab maintenance therapy (category 1)^{a,11}
Cisplatin ineligible	<p><u>Preferred regimens</u></p> <ul style="list-style-type: none">• Gemcitabine and carboplatin¹² followed by avelumab maintenance therapy (category 1)^{a,11}• Atezolizumab¹³ (only for patients whose tumors express PD-L1^b or who are not eligible for any platinum-containing chemotherapy regardless of PD-L1 expression)• Pembrolizumab¹⁴ (for the treatment of patients with locally advanced or metastatic urothelial carcinoma who are not eligible for any platinum-containing chemotherapy) <p><u>Other recommended regimens</u></p> <ul style="list-style-type: none">• Gemcitabine¹⁵• Gemcitabine and paclitaxel¹⁶ <p><u>Useful under certain circumstances</u></p> <ul style="list-style-type: none">• Ifosfamide, doxorubicin, and gemcitabine¹⁷ (for patients with good kidney function and good PS)

Metastatik Mesane Kanseri Birinci Basamak Tedavi Seçimi



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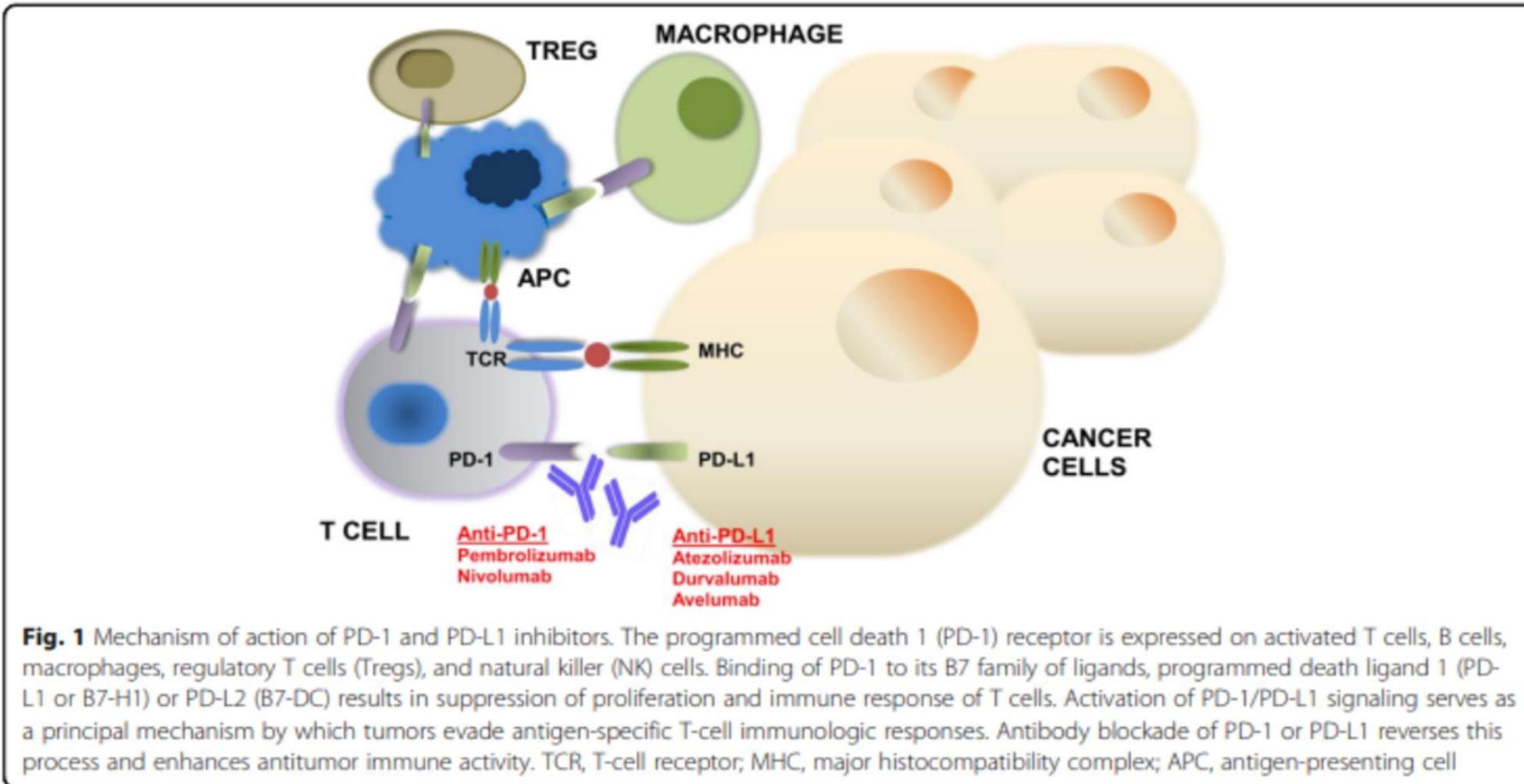
NCCN Guidelines Version 3.2023 Bladder Cancer

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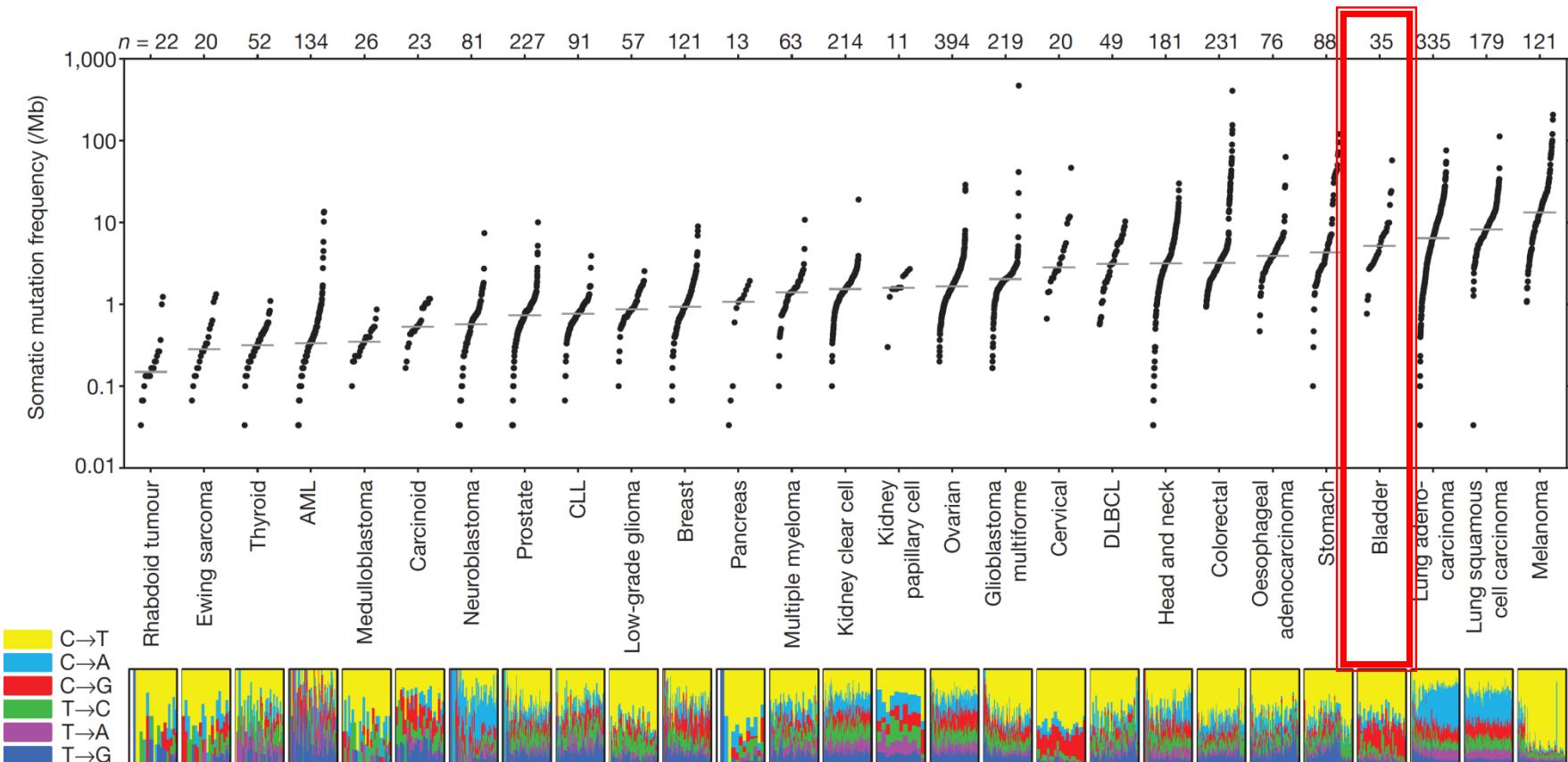
PRINCIPLES OF SYSTEMIC THERAPY

First-Line Systemic Therapy for Locally Advanced or Metastatic Disease (Stage IV)	
Cisplatin eligible	<p>Preferred regimens</p> <ul style="list-style-type: none">Gemcitabine and cisplatin⁴ (category 1) followed by avelumab maintenance therapy (category 1)^{a,11}DDMVAC with growth factor support (category 1)^{2,8} followed by avelumab maintenance therapy (category 1)^{a,11}
Cisplatin ineligible	<p>Preferred regimens</p> <ul style="list-style-type: none">Gemcitabine and carboplatin¹² followed by avelumab maintenance therapy (category 1)^{a,11}Pembrolizumab¹⁴ (for the treatment of patients with locally advanced or metastatic urothelial carcinoma who are not eligible for any platinum-containing chemotherapy)Pembrolizumab and enfortumab vedotin-ejfv¹⁷ <p>Other recommended regimens</p> <ul style="list-style-type: none">Gemcitabine¹⁵Gemcitabine and paclitaxel¹⁶Atezolizumab¹³ (only for patients whose tumors express PD-L1^b) (category 2B) <p>Useful under certain circumstances</p> <ul style="list-style-type: none">Ifosfamide, doxorubicin, and gemcitabine¹⁸ (for patients with good kidney function and good performance status)Atezolizumab¹³ (only for patients who are not eligible for any platinum-containing chemotherapy regardless of PD-L1 expression) (category 3)

İmmün kontrol noktası inhibitörleri



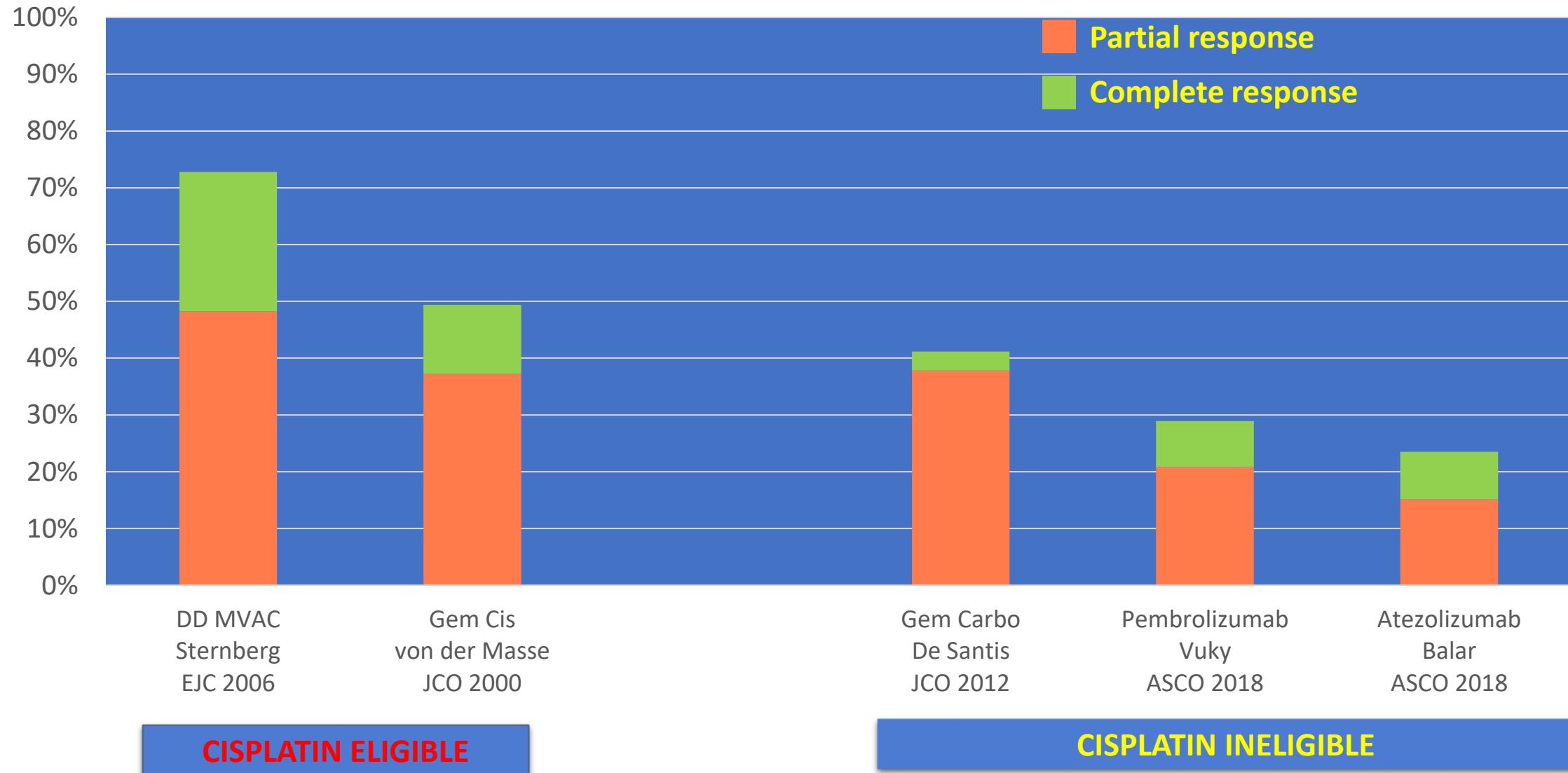
Mesane Kanserinde Tümör Mutasyon Yükü



Lawrence et al. Nature 2013

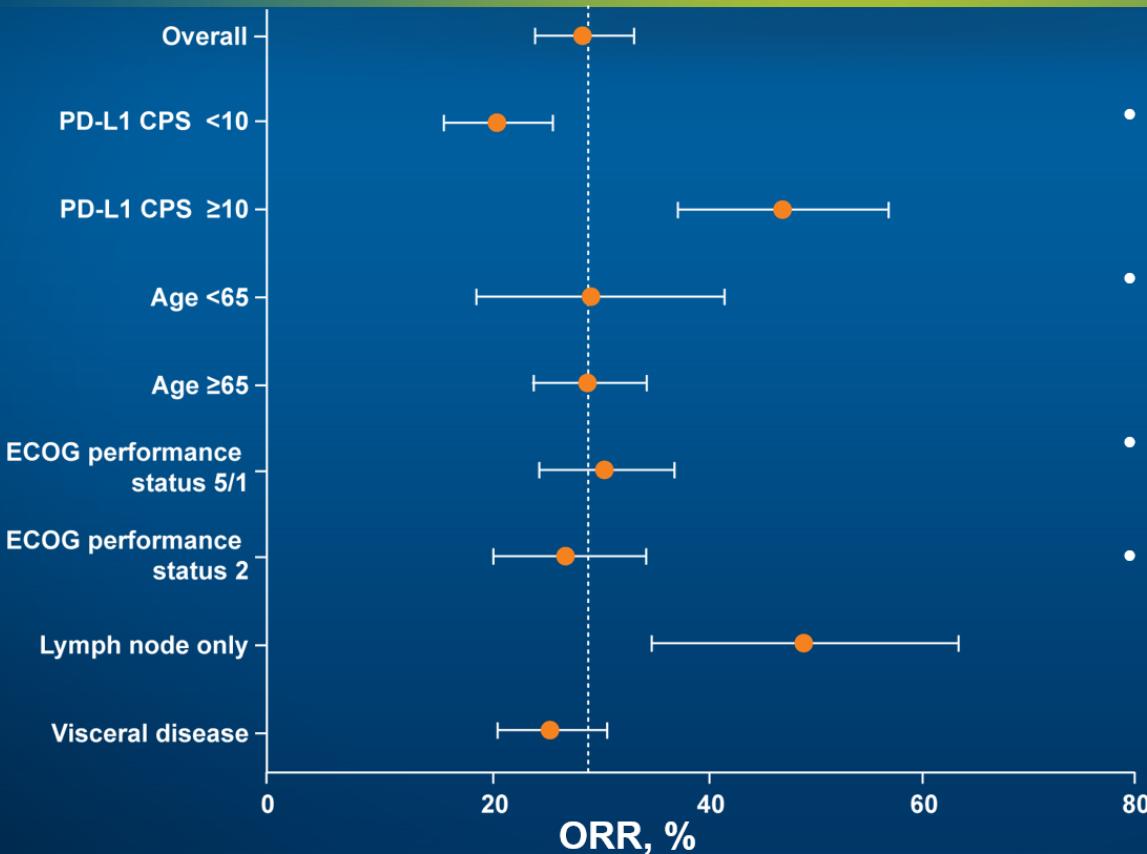
- ❑ Yüksek kompleks mutasyon durumu tütün ve diğer kanserojenlere maruz kalma ile benzer
- ❑ Bir çok neoantijen konakçı immün sistemi tarafından potansiyel olarak yabancı gibi görünür

Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları



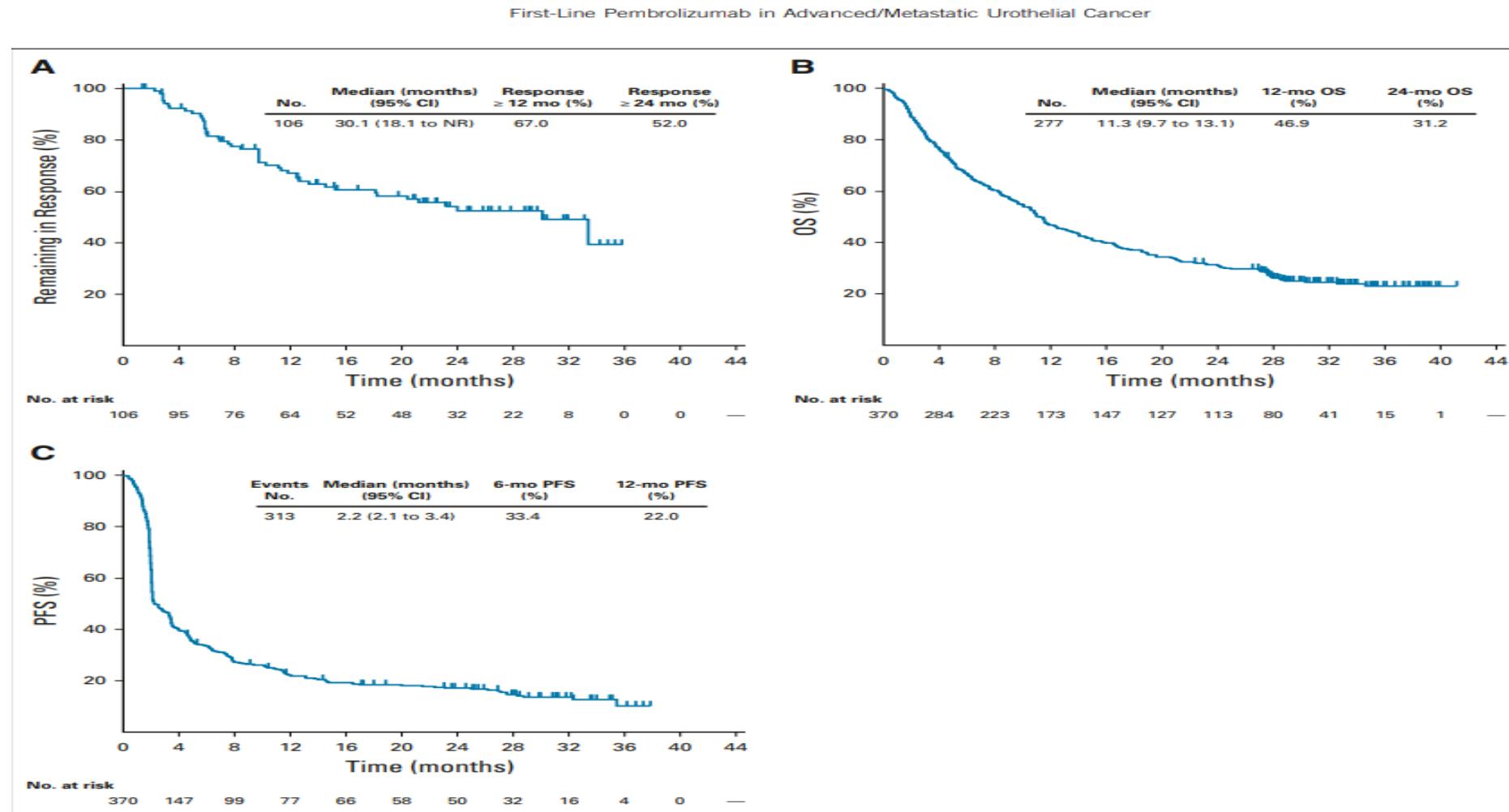
Sisplatin Tedavisine Uygun Olmayan Grupta Birinci Basamak Tedavi İmmün kontrol noktası inhibitörleri

KEYNOTE-052: Objective Response Rate with First-Line Pembrolizumab by Subgroup in Cisplatin-Ineligible Advanced UC



- Treatment-related adverse events (AEs) occurred in 67.6% of patients.
- Most common were:
 - Fatigue (18.1%)
 - Pruritus (17.8%)
- Grade ≥ 3 AEs occurred in 20.3% of patients.
- Immune-mediated AEs occurred in 24.6% of patients.

Sisplatin Tedavisine Uygun Olmayan Grupta Birinci Basamak Tedavi İmmün kontrol noktası inhibitörleri



Sisplatin Tedavisine Uygun Olmayan Grupta Birinci Basamak Tedavi İmmün kontrol noktası inhibitörleri

IMvigor210: Efficacy of Atezolizumab in First-Line Cisplatin-Ineligible or Platinum-Treated Locally Advanced or Metastatic UC

	Cohort 1 (cisplatin ineligible)	Cohort 2 (platinum treated)
Median follow-up, months	29.3	32.9
Response		
ORR	24%	16%
CR	8%	7%
Median DOR (range), months	NR (30.4-NE)	24.8 (13.8-30.4)
Survival		
Median OS, months	16.3	7.9
1-year OS	58%	37%
2-year OS	41%	23%

Sisplatin Tedavisine Uygun Olmayan Grupta Birinci Basamak Tedavi İmmün kontrol noktası inhibitörleri

Abstract 4262
Poster 699P

Atezolizumab Monotherapy in Cisplatin-Ineligible Patients With Previously Untreated Metastatic Urothelial Carcinoma: 5-Year Response and Survival Analysis From the Phase II IMvigor210 Study (Cohort 1)

Jonathan E. Rosenberg,¹ Matthew D. Galsky,² Arjun V. Balar,³ Yohann Loriot,⁴ Andrea Necchi,⁵ Jean Hoffman-Censits,⁶ Sandy Srinivas,⁷ Alexandra Drakaki,⁸ Apurva Javerry,⁹ Yi Shi,¹⁰ Hannah (Xinhui) Huang,¹⁰ Xiaodong Shen,¹⁰ Michiel S. van der Heijden¹¹

¹ Memorial Sloan Kettering Cancer Center, New York, NY, USA; ² Icahn School of Medicine at Mount Sinai/Tisch Cancer Institute, New York, NY, USA; ³ Perlmutter Cancer Center, NYU Langone Health, New York, NY, USA; ⁴ Université Paris-Sud, Université Paris-Saclay, Gustave Roussy Villejuif, France; ⁵ Vita-Salute San Raffaele University and IRCCS San Raffaele Hospital, Milan, Italy; ⁶ Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, USA; ⁷ Stanford University Medical Center, Stanford, CA, USA; ⁸ University of California, Los Angeles, Los Angeles, CA, USA; ⁹ Syncys Health, Raleigh, NC, USA; ¹⁰ Genentech Inc, South San Francisco, CA, USA; ¹¹ Netherlands Cancer Institute, Amsterdam, the Netherlands

BACKGROUND

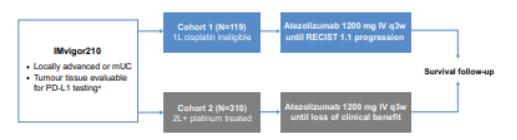
- Cisplatin-based chemotherapy is the standard of care for first-line (1L) treatment of metastatic urothelial carcinoma (mUC), although many patients are ineligible for cisplatin.
- Atezolizumab (anti-PD-L1) is recommended for the treatment of several types of locally advanced or mUC, including cisplatin-ineligible patients whose tumours express PD-L1 (PD-L1-expressing immune cells [IC] covering >5% of the tumour area [IC2/3]).¹⁻³
- Cohort 1 of the pivotal, single-arm, Phase II, IMvigor210 study demonstrated the tolerability of and durable responses to 1L atezolizumab in patients with cisplatin-ineligible mUC,⁴ with sustained responses observed with additional follow-up.⁵
- The ongoing Phase III IMvigor130 study has also demonstrated prolonged efficacy with 1L atezolizumab monotherapy vs platinum-based chemotherapy in exploratory analyses in patients with PD-L1 IC2/3 tumours, including those ineligible for cisplatin.^{6,7}
- To evaluate the long-term efficacy of atezolizumab in patients with cisplatin-ineligible previously untreated mUC, here, we report updated data from IMvigor210 Cohort 1, based on over 5 years of follow-up.



METHODS

IMvigor210 is an ongoing, global, single-arm, Phase II trial investigating the efficacy and safety of atezolizumab monotherapy in 1L cisplatin-ineligible mUC and previously platinum-treated mUC

Figure 1. IMvigor210 study design¹



- Primary endpoint (Cohort 1) was objective response rate (ORR) per RECIST 1.1 as assessed by independent review facility (IRF)
• Key secondary endpoints reported here: duration of response (DOR) as assessed by IRF and overall survival (OS)
• In this poster, efficacy was descriptively evaluated in the all-comer patients and subgroups defined by PD-L1 status on IC (IC2/3) or PD-L1-expressing IC covering <5% of the tumour area [IC0/1])



RESULTS

Durable responses and long-term survival with 1L atezolizumab monotherapy were observed in this 5-year clinical update

Table. Efficacy summary	All comers (N=119)	PD-L1 IC0/1 (n=87)	PD-L1 IC2/3 (n=32)
Objective response*			
ORR, n (%)	28 (23.5)	19 (21.8)	9 (28.1)
[95% CI]	[16.2, 32.2]	[13.7, 32.0]	[13.8, 46.8]
CR, n (%)	12 (10.1)	7 (8.0)	5 (15.6)
Ongoing responses, n/n (%) ^b	15/28 (53.6)	9/19 (47.4)	6/9 (66.7)
Median DOR (95% CI), mo	59.1 (44.2, NE)	53.5 (30.4, NE)	NE (11.1, NE)
OS			
OS events, n (%)	92 (77.3)	68 (78.2)	24 (75.0)
Median OS (95% CI), mo	16.3 (10.4, 24.5)	19.1 (10.4, 25.2)	12.3 (8.0, 49.8)
24-mo OS (95% CI), %	41.1 (32.1, 50.2)	41.8 (31.1, 52.5)	39.3 (22.1, 56.5)
60-mo OS (95% CI), %	21.6 (13.7, 29.5)	19.6 (10.8, 28.5)	27.0 (10.3, 43.7)

Clinical cutoff: 31 January 2021.

NE, not estimable.

*Response was per IRF in objective response-evaluable patients.

^aRefers to death or progressive disease only in patients who achieved an objective response.

- As of the data cutoff, the median follow-up duration was 70.8 months (range, 0.2-77.5).
- There were no new responders since the 14 March 2016 data cutoff.

REFERENCES

- NCCN Clinical Practice Guidelines in Oncology: Bladder Cancer. V3.2021.
- Wiles JA, et al. Eur Urol. 2021;79:82-104.
- ESMO. Accessed 16 August 2021. <https://www.esmo.org/guidelines/genitourinary-cancers/bladder-cancer-update-bladder-cancer-treatment-recommendations>.
- Balar AV, et al. Lancet. 2017;389:67-76.
- Loriot Y, et al. Poster presented at: ASCO 2019. Abstract 4527.

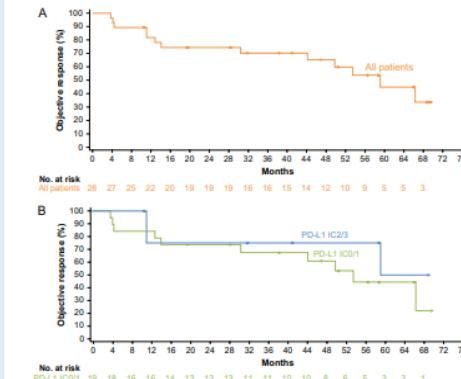
- Galsky M, et al. Lancet. 2020;395:1547-57.
- Davis J, et al. Oral presentation online at AACR 2021. Abstract 5130.
- SEER. Accessed 28 July 2021. <https://seer.cancer.gov/statfacts/html/urin.html>.
- De Santis M, et al. J Clin Oncol. 2012;30:191-9.

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- The patients and their families
- The investigators and clinical study sites
- This study is sponsored by F. Hoffmann-La Roche Ltd
- Betty Nelson of Genentech Inc contributed to the statistical analyses
- Medical writing assistance for this poster was provided by Priscilla Hong, PharmaD, of Health Interactions and funded by F. Hoffmann-La Roche Ltd
- For coauthor disclosures, please refer to published abstract

Median DOR has not been reached in the PD-L1 IC2/3 subgroup of patients

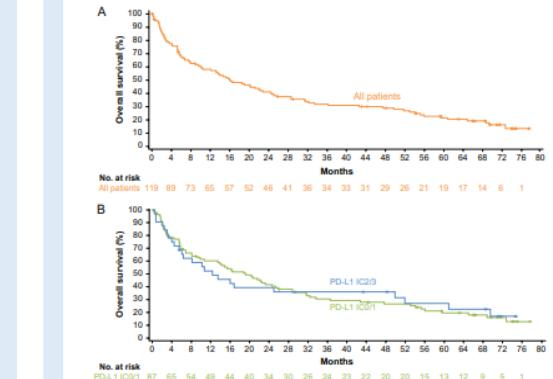
Figure 2. Kaplan-Meier curves for DOR (A) in all comers and (B) by PD-L1 status



Clinical cutoff: 31 January 2021

Prolonged survival was seen in the all-comer population, including patients with PD-L1 IC0/1 and IC2/3 tumours

Figure 4. Kaplan-Meier curves for OS (A) in all comers and (B) by PD-L1 status



Clinical cutoff: 31 January 2021

CONCLUSIONS

Durable responses and long-term survival with 1L atezolizumab monotherapy in cisplatin-ineligible mUC were observed in this 5-year clinical update from the Phase II IMvigor210 study (Cohort 1)

Median DOR was not reached in patients with PD-L1 IC2/3 mUC

The 5-year OS rate seen in the overall all-comer population ($\approx 22\%$) compares favourably with historic data,⁸ including gemcitabine/carboplatin in cisplatin-ineligible patients⁹

AUTHOR EMAIL

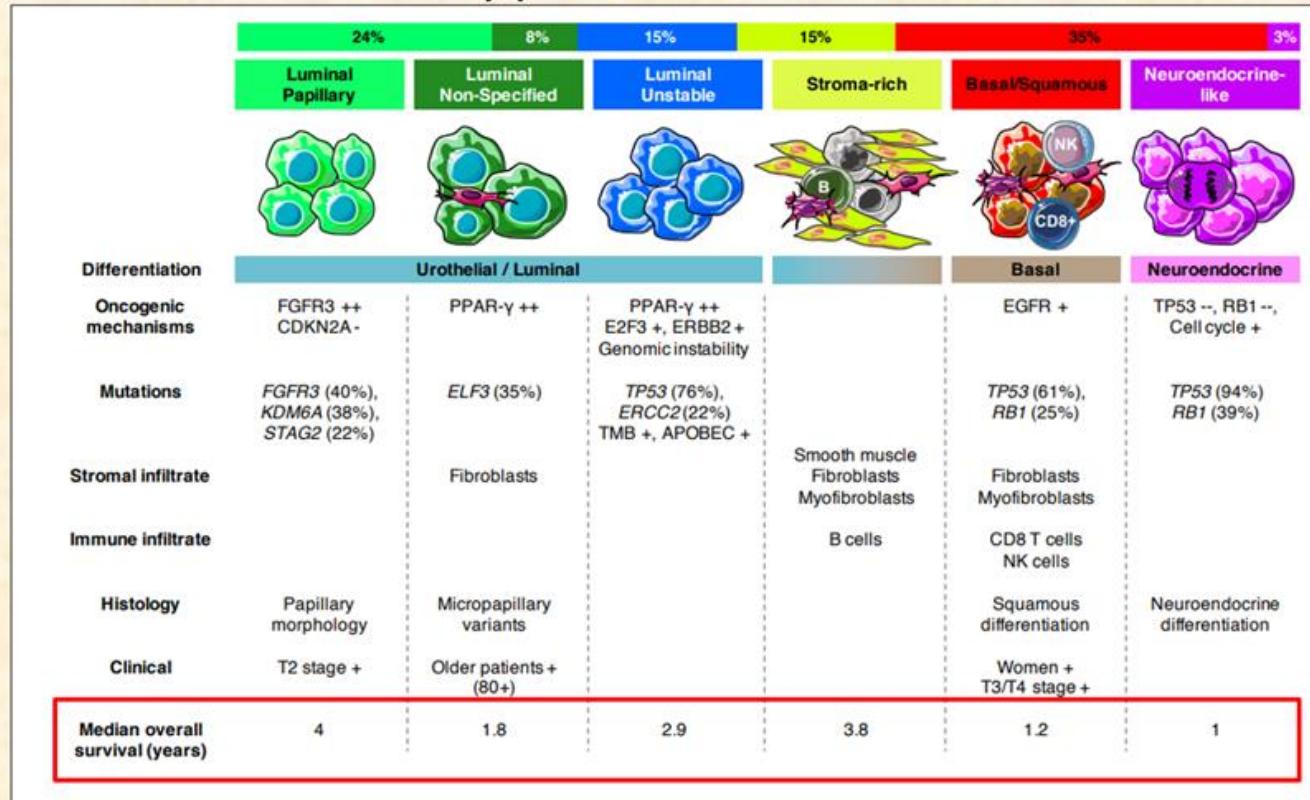
For questions or comments on this poster, please contact Dr Jonathan E. Rosenberg at jonathan.rosenberg@mskcc.org



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Metastatik Mesane Kanseri İkinci Basamak Tedavi Seçenekleri

Bladder cancer is composed of multiple tumors:
Subtypes within subtypes



APOBEC, apolipoprotein B mRNA-editing enzyme, catalytic polypeptide-like; CDKN2A, cyclin-dependent kinase Inhibitor 2A;
E2F3, E2F transcription factor 3; NK, natural killer; TMB, tumour mutation burden.

Kamoun A, et al. 2019. Epub ahead of print date.

Courtesy of Arlene O. Siefker-Radtke, MD

Metastatik Mesane Kanseri Sisplatin Uygun Olmayanlarda Birinci Basamak Tedavi Yanıtları

EV-103: Phase 1b/2 Trial of Enfortumab + Pembrolizumab

Patients With 1L Cisplatin-Ineligible Ia/mUC (N=45)

Dose escalation

EV + Pembro
(n=5)

Dose expansion
cohort A

EV + Pembro
(n=40)

EV 1.25 mg/kg days 1 and 8
of a 3-week cycle

+

Pembrolizumab 200 mg on day 1
of a 3-week cycle

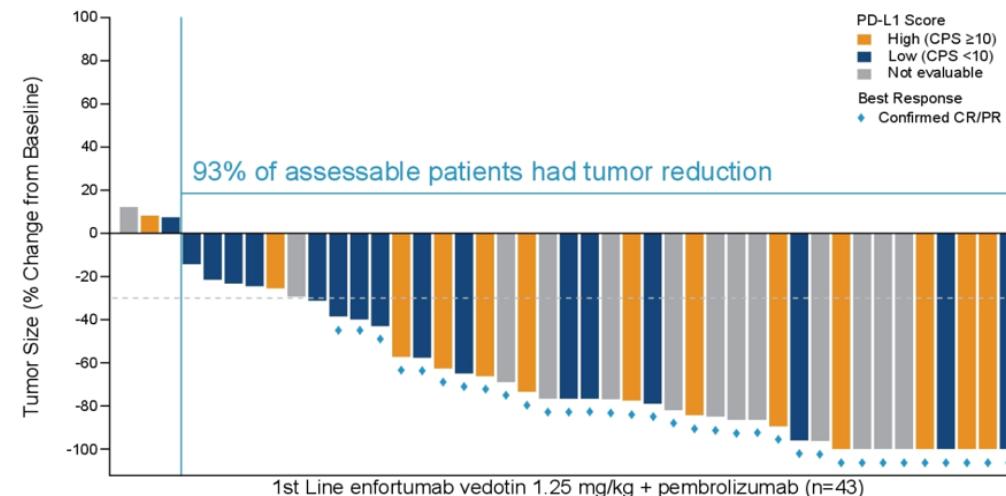
- 84% of patients had visceral disease and 31% had liver metastasis
- 31% of patients had PD-L1 CPS ≥ 10

Confirmed ORR 95% CI	73% (33/45) (58.1, 85.4)
Complete response	16% (7/45)
Partial response	58% (26/45)

- 57% confirmed ORR in patients with liver metastases

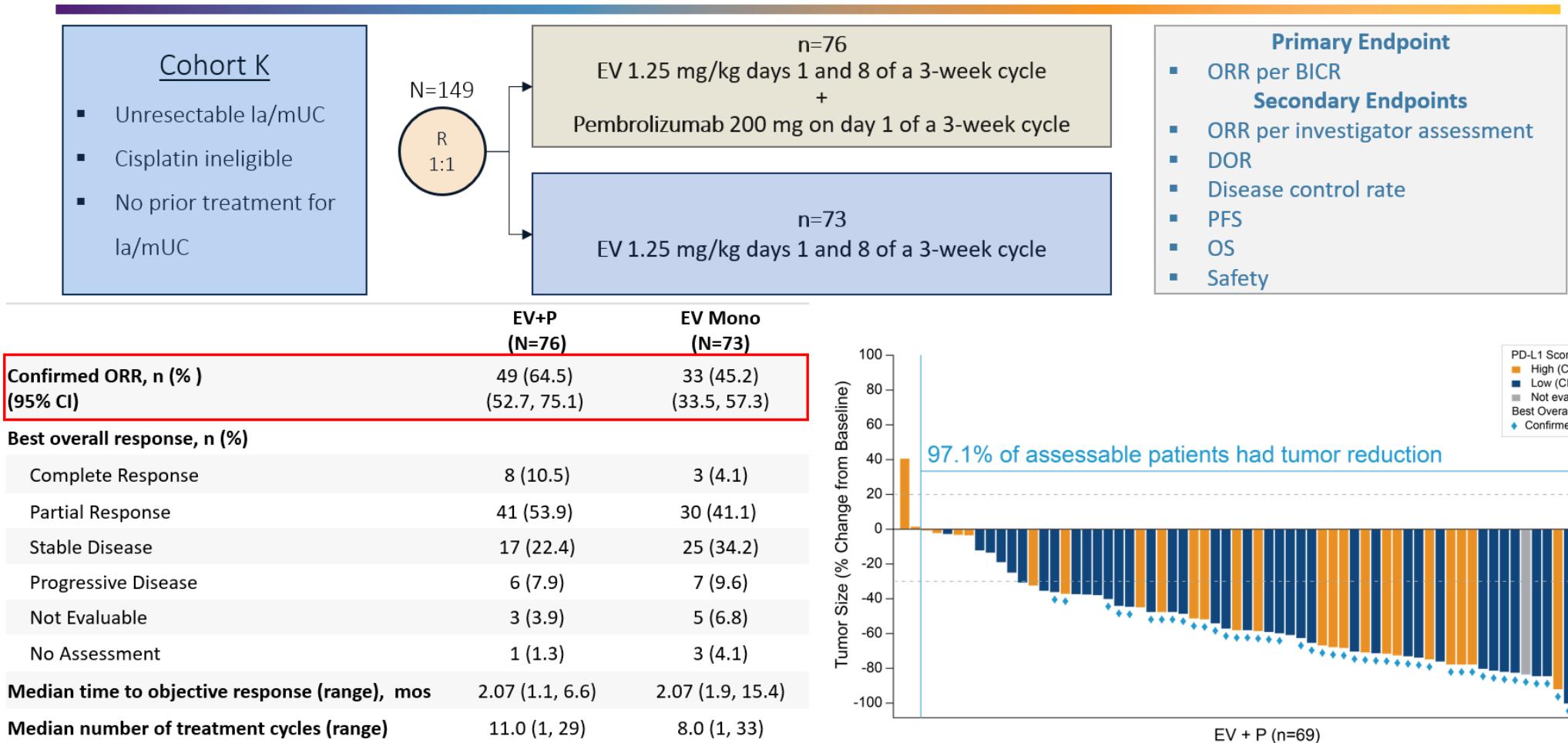
Maximum Target Lesion Reduction From Baseline by PD-L1 Status

Best Overall Response per RECIST v1.1 by Investigator (N=45)



Metastatik Mesane Kanseri Sisplatin Uygun Olmayanlarda Birinci Basamak Tedavi Yanıtları

EV-103 Cohort K: Phase 1b/2 Trial



Data cutoff: 10Jun2022

BICR: Blinded Independent Central Review; cORR: Confirmed Objective Response Rate; NR: Not Reached

BICR: Blinded Independent Central Review; CPS: Combined Positive Score; CR: Complete Response; PD-L1: Programmed Death-Ligand 1 PR: Partial Response

Rosenberg JE, et al. ESMO 2022. Abstract 2895/LBA73.

Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pembrolizumab

Overall Objective Response Rates by BICR

High confirmed ORR (73.3%) with high concordance rate between BICR and INV assessments

Dose Escalation + Cohort A (N = 45)	
Objective Response Rate, n (%)	33 (73.3)
95% CI ^a for ORR	58.1-85.4
Best Overall Response, n (%)	
Complete response	7 (15.6)
Partial response	26 (57.8)
Stable disease	5 (11.1)
Progressive disease	5 (11.1)
No assessment ^b	2 (4.4)
Disease Control Rate, n (%)	38 (84.4)
95% CI ^a for DCR	70.5-93.5
Concordance rate of BOR between BICR and INV^c assessment	95.3%

BICR = blinded independent central review; BOR = best overall response; CI = confidence interval; DCR = disease control rate; INV = investigator; ORR = objective response rate

^aCI was computed using the Clopper-Pearson method (Clopper 1934)

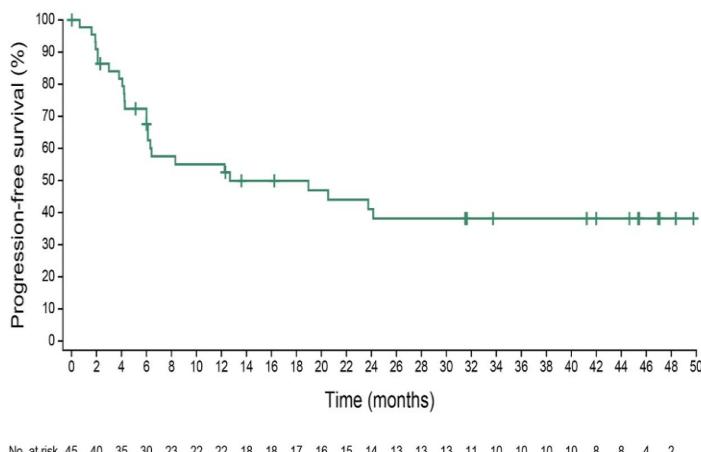
^bPatients had no response assessment post-baseline

^cORR per INV assessment was 33/45 (73.3%)

Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pemrolizumab

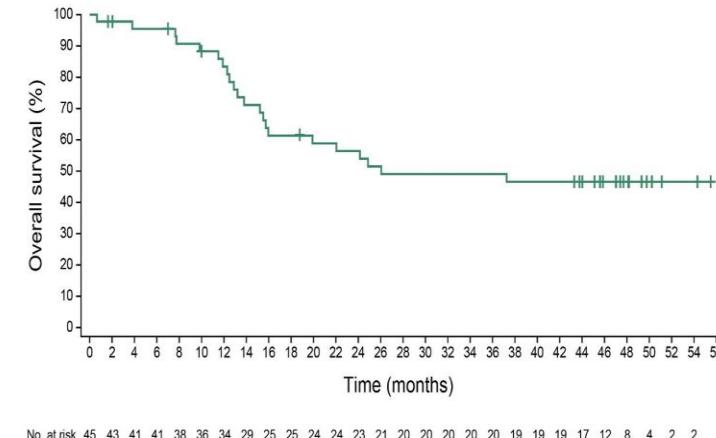
Progression-Free Survival by BICR

41.1% of patients were progression-free at 24 months



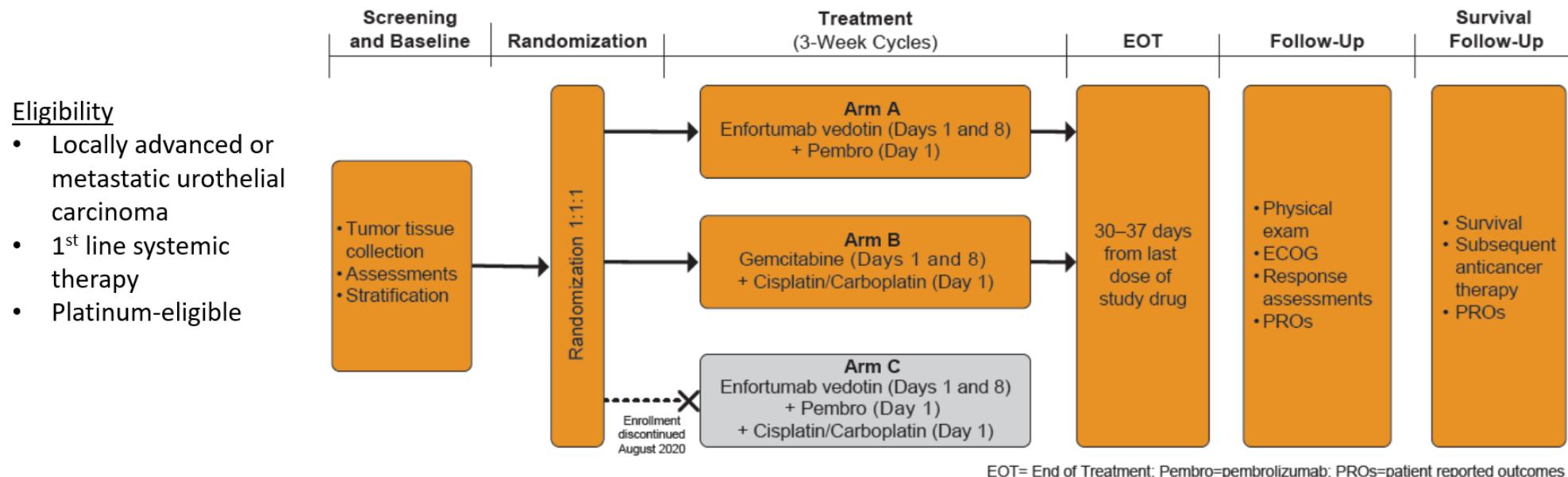
Overall Survival

Median survival exceeds 2 years



Gelecek Perspektif

EV-302 Randomized Phase 3 Trial Schema



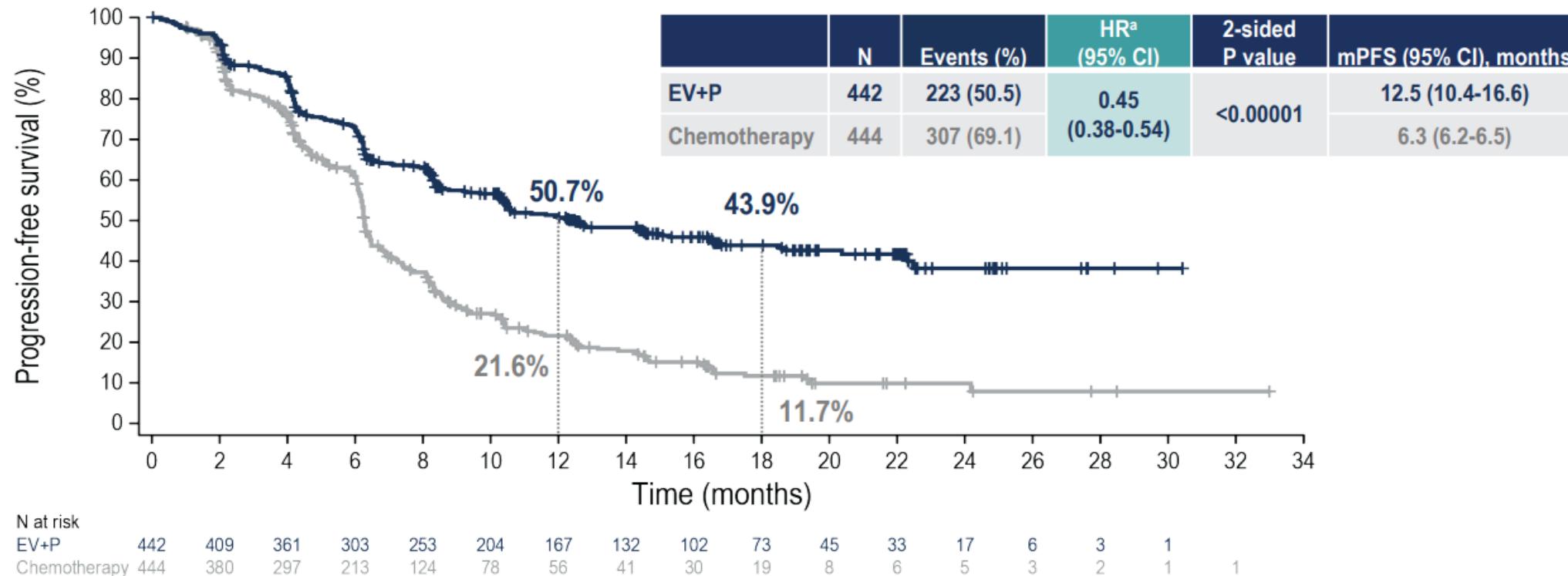
- Stratification Factors for Randomization: cisplatin eligibility (eligible/ineligible), liver metastases (present/absent), PD-L1 expression (high/low)
- Follow-up until disease progression, death, consent withdrawal, or study closure

Primary Endpoints: PFS, OS
Secondary Endpoints: ORR, DOR, DCR, QOL, PRO, Safety

Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pembrolizumab

Progression-Free Survival per BICR

Risk of progression or death was reduced by 55% in patients who received EV+P



Data cutoff: 08 Aug 2023

MADRID ESMO congress
2023

Powles et al.

PFS at 12 and 18 months as estimated using Kaplan-Meier method

HR, hazard ratio; mPFS, median progression-free survival

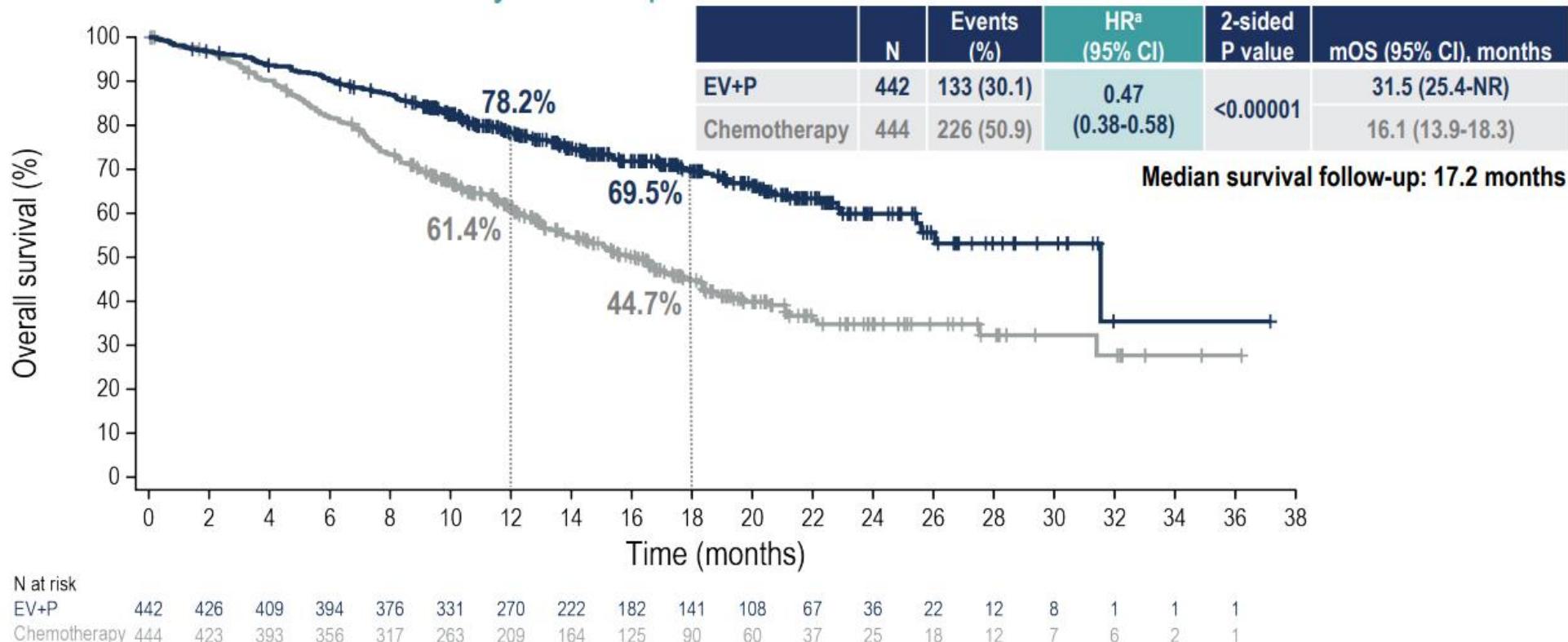
^aCalculated using stratified Cox proportional hazards model; a hazard ratio <1 favors the EV+P arm

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Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pemrolizumab

Overall Survival

Risk of death was reduced by 53% in patients who received EV+P



Data cutoff: 08 Aug 2023

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OS at 12 and 18 months was estimated using Kaplan-Meier method
mOS, median overall survival; NR, not reached

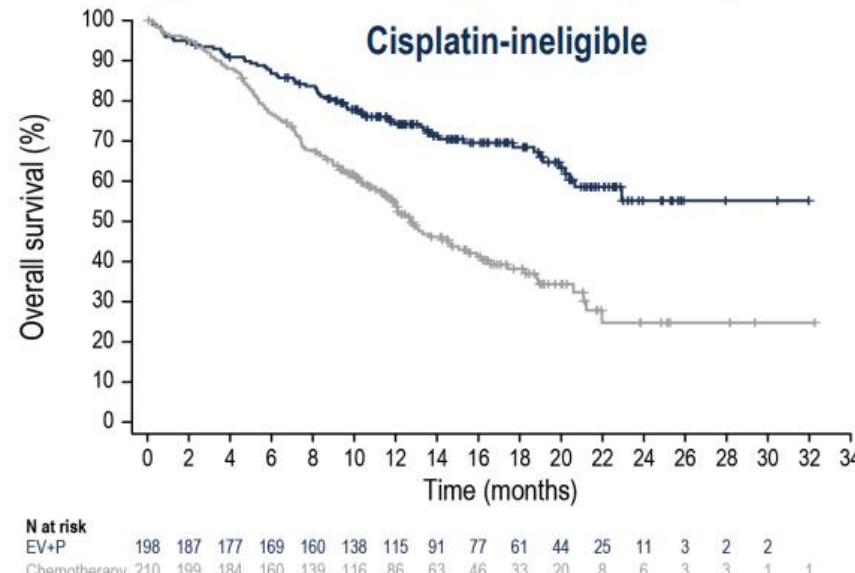
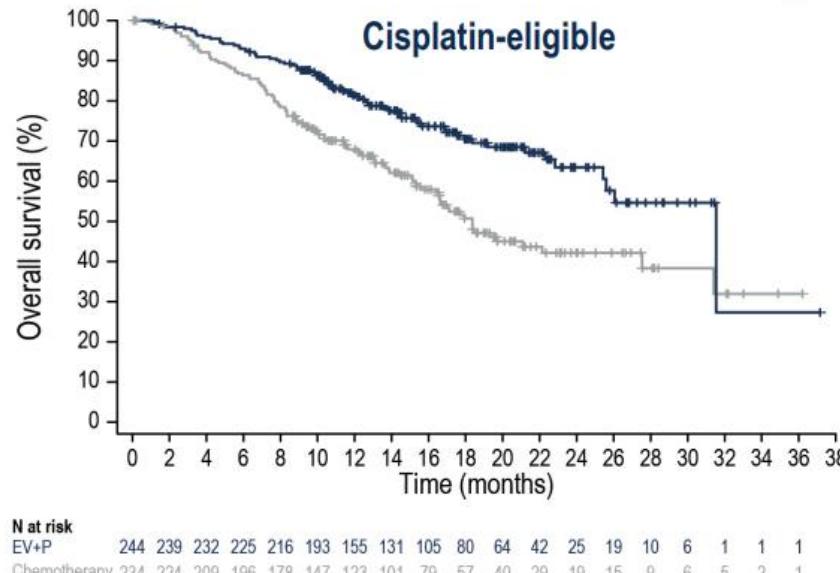
^aCalculated using stratified Cox proportional hazards model. A hazard ratio <1 favors the EV+P arm

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Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pembrolizumab

OS Subgroup Analysis: Cisplatin Eligibility

OS benefit was consistent with overall population regardless of cisplatin eligibility



	Events, n	HR (95% CI)	mOS (95% CI), months
EV+P	69	0.53 (0.39-0.72)	31.5 (25.4-NR)
Chemotherapy	106		18.4 (16.4-27.5)

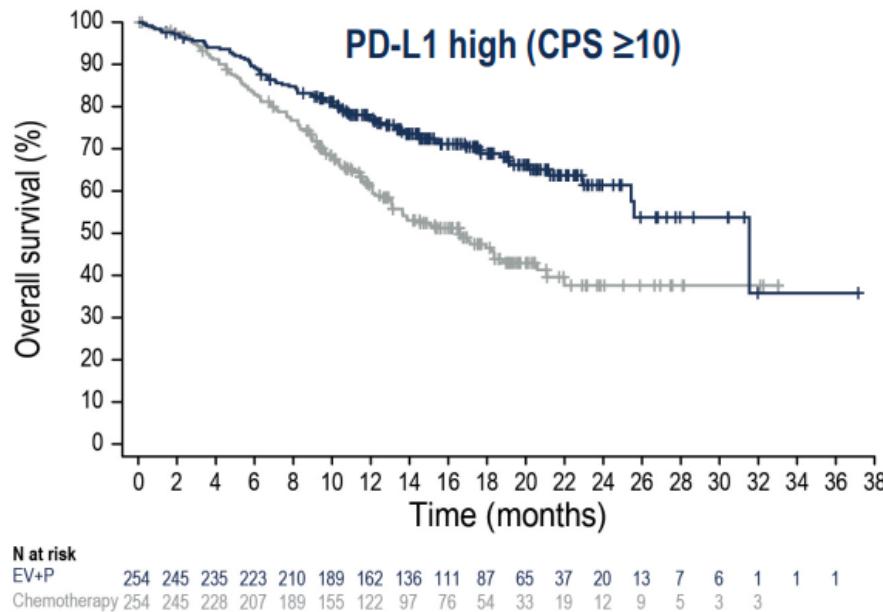
	Events, n	HR (95% CI)	mOS (95% CI), months
EV+P	64	0.43 (0.31-0.59)	NR (20.7-NR)
Chemotherapy	120		12.7 (11.4-15.5)

Data cutoff: 08 Aug 2023

Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pemrolizumab

OS Subgroup Analysis: PD-L1 Expression

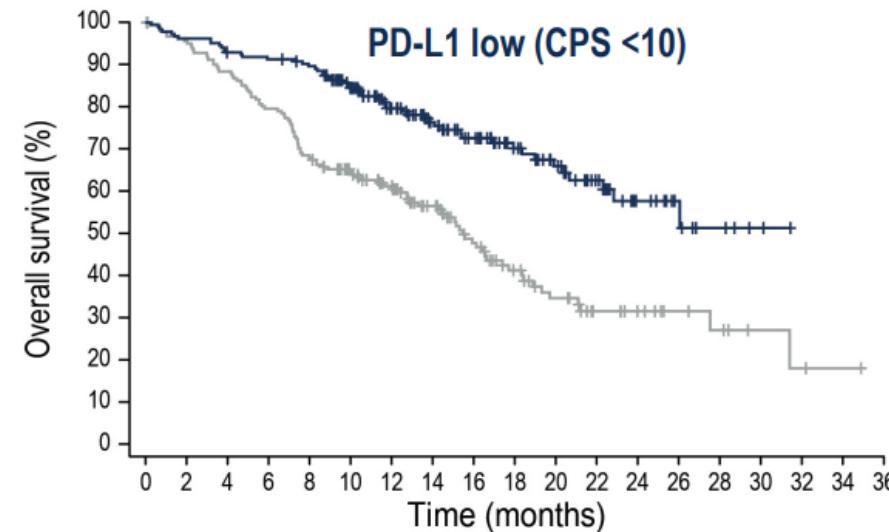
OS benefit was consistent with overall population regardless of PD-L1 expression status



N at risk
EV+P 254 245 235 223 210 189 162 136 111 87 65 37 20 13 7 6 1 1 1 1
Chemotherapy 254 245 228 207 189 155 122 97 76 54 33 19 12 9 5 3 3

	Events, n	HR (95% CI)	mOS (95% CI), months
EV+P	79	0.49	31.5 (25.4-NR)
Chemotherapy	125	(0.37-0.66)	16.6 (13.1-20.6)

Data cutoff: 08 Aug 2023



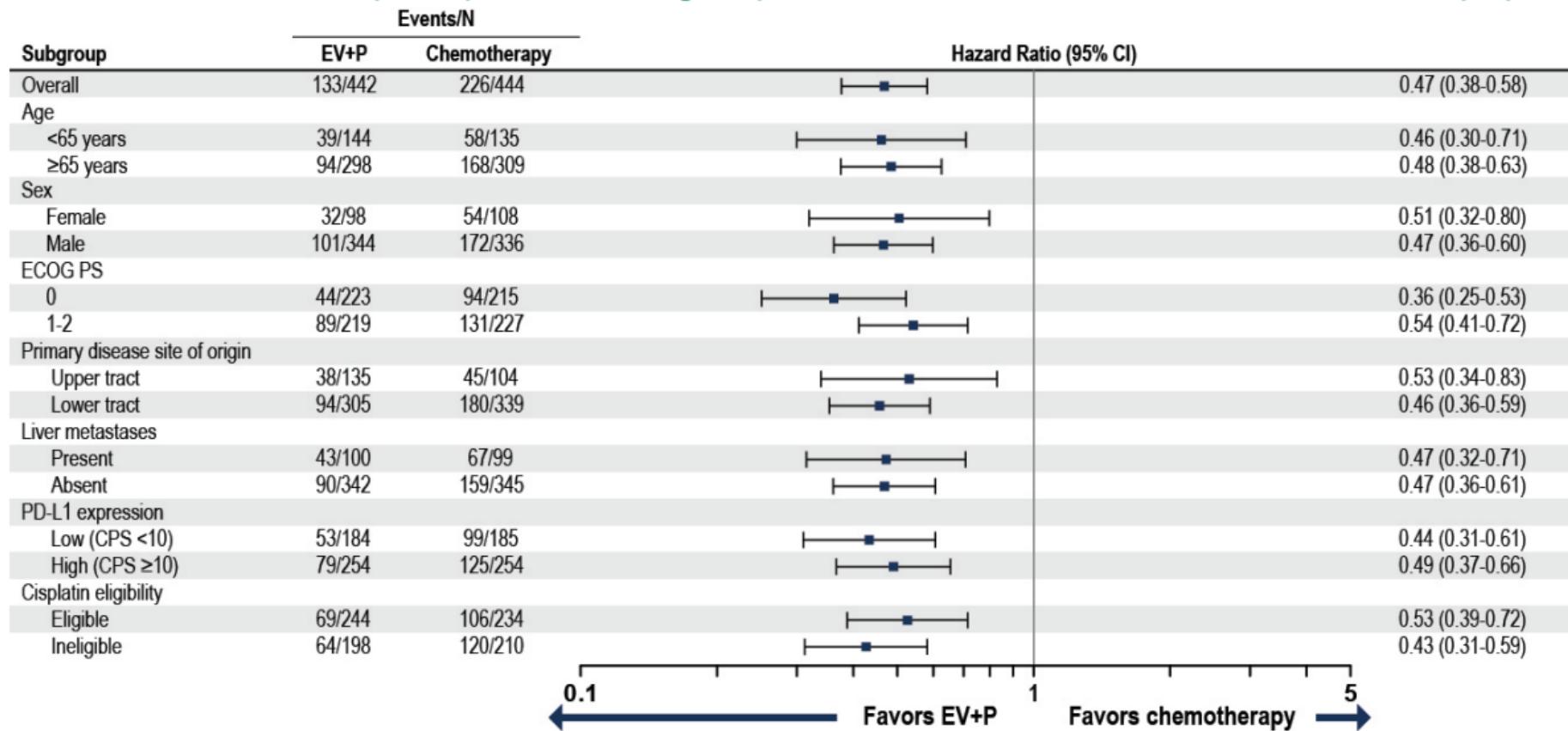
N at risk
EV+P 184 177 170 167 162 139 106 86 71 54 43 30 16 9 5 2 1
Chemotherapy 185 173 160 144 123 103 84 65 47 34 25 16 12 8 6 3 2 1

	Events, n	HR (95% CI)	mOS (95% CI), months
EV+P	53	0.44	NR (22.3-NR)
Chemotherapy	99	(0.31-0.61)	15.5 (12.9-17.7)

Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pembrolizumab

Subgroup Analysis of OS

OS benefit in select pre-specified subgroups was consistent with results in overall population



Data cutoff: 08 Aug 2023

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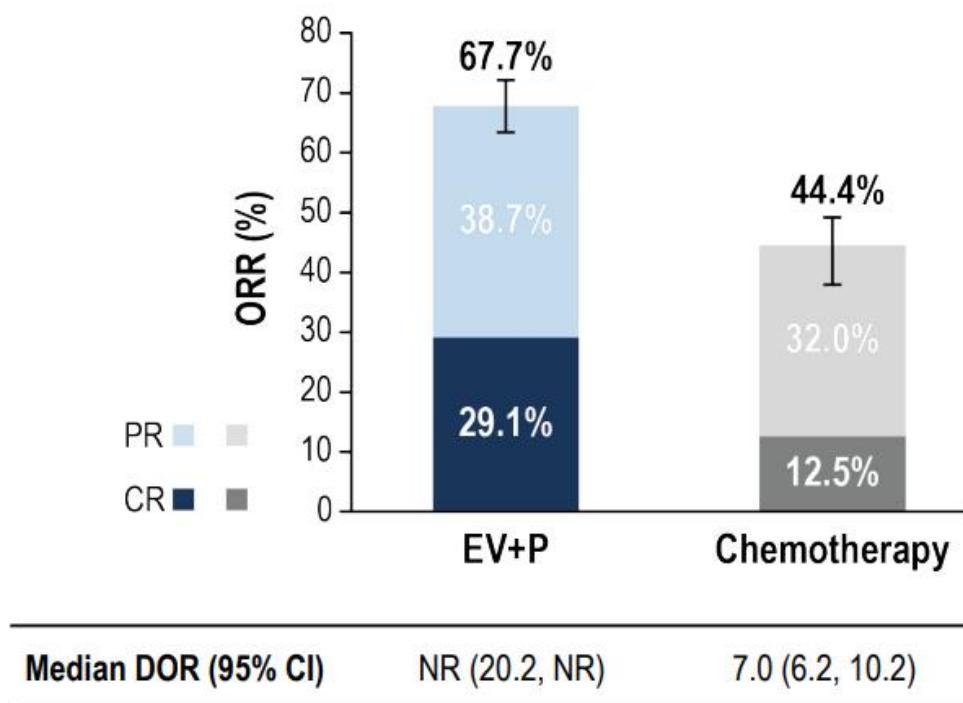
Powles et al.

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Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pembrolizumab

Confirmed Overall Response per BICR

Significant improvement in objective response rate was observed with EV+P



	EV+P (N=437)	Chemotherapy (N=441)
Confirmed ORR, n (%) (95% CI)	296 (67.7) (63.1-72.1)	196 (44.4) (39.7-49.2)
2-sided P value	<0.00001	
Best overall response ^a , n (%)		
Complete response	127 (29.1)	55 (12.5)
Partial response	169 (38.7)	141 (32.0)
Stable disease	82 (18.8)	149 (33.8)
Progressive disease	38 (8.7)	60 (13.6)
Not evaluable/No assessment ^b	21 (4.8)	36 (8.2)

Data cutoff: 08 Aug 2023

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CR, complete response; DOR, duration of response; PR, partial response

^aBest overall response according to RECIST v1.1 per BICR. CR or PR was confirmed with repeat scans ≥28 days after initial response

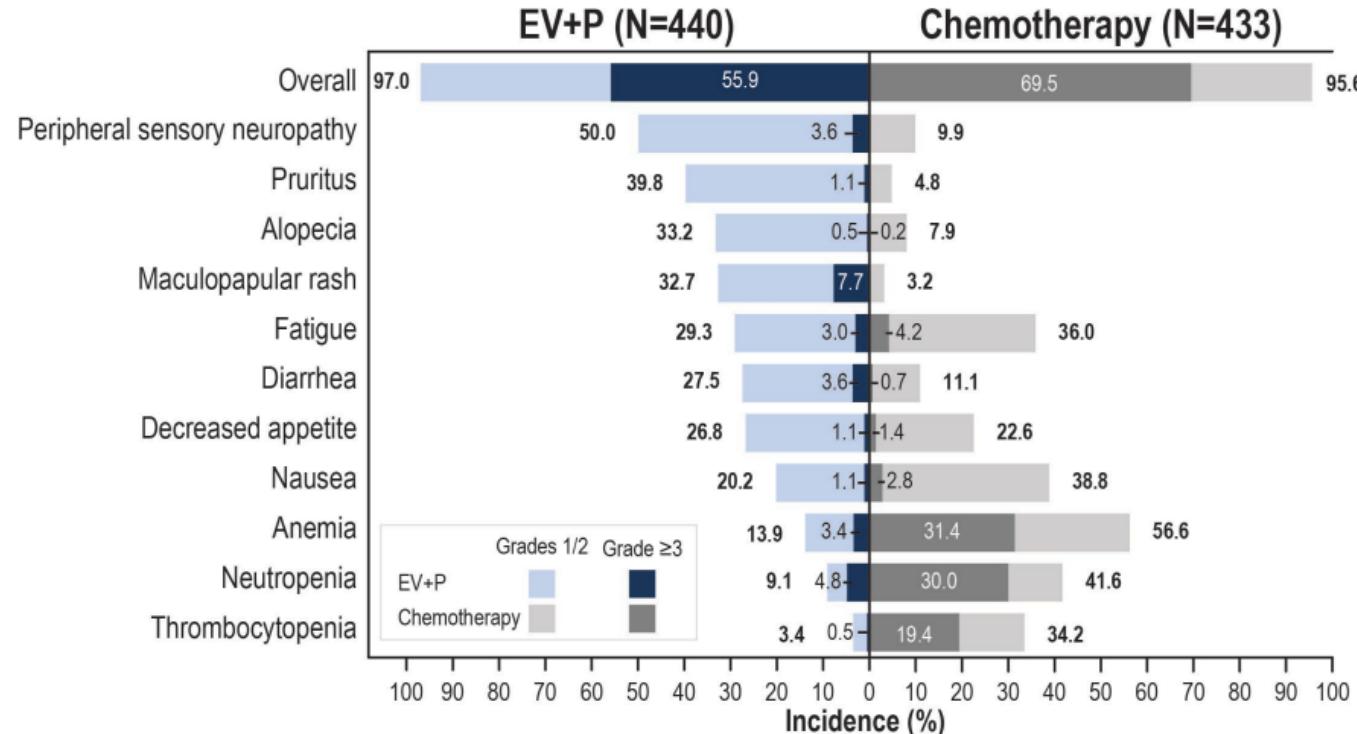
^bPatients had either post-baseline assessment and the best overall response was determined to be not evaluable per RECIST v1.1 or no response assessment post-baseline

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Metastatik Mesane Kanseri Birinci Basamak Tedavi Yan etki EV103 -EV/pembrolizumab

Treatment-Related Adverse Events

Grade ≥ 3 events were 56% in EV+P and 70% in chemotherapy



Serious TRAEs:

- 122 (27.7%) EV+P
- 85 (19.6%) chemotherapy

TRAEs leading to death (per investigator):

EV+P: 4 (0.9%)

- Asthenia
- Diarrhea
- Immune-mediated lung disease
- Multiple organ dysfunction syndrome

Chemotherapy: 4 (0.9%)

- Febrile neutropenia
- Myocardial infarction
- Neutropenic sepsis
- Sepsis

Median number of cycles (range): 12.0 (1,46) for EV+P; 6.0 (1,6) for chemotherapy

Data cutoff: 08 Aug 2023

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Powles et al.

TRAEs shown in figure are any grade by preferred term in $\geq 20\%$ of patients for any grade in either arm
TRAEs, treatment-related adverse events

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Metastatik Mesane Kanseri Birinci Basamak Tedavi Yanıtları EV103 -EV/pembrolizumab

EV Treatment-Related Adverse Events of Special Interest*

Majority of treatment-related AESIs were low grade

	EV+P (N=440) n (%)		Chemotherapy (N=433) n (%)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Skin reactions	294 (66.8)	68 (15.5)	60 (13.9)	1 (0.2)
Peripheral neuropathy	278 (63.2)	30 (6.8)	53 (12.2)	0 (0.0)
Sensory events	260 (59.1)	19 (4.3)	51 (11.8)	0 (0.0)
Motor events	44 (10.0)	12 (2.7)	5 (1.2)	0 (0.0)
Ocular disorders	94 (21.4)	0 (0.0)	12 (2.8)	0 (0.0)
Dry eye	82 (18.6)	0 (0.0)	8 (1.8)	0 (0.0)
Hyperglycemia	57 (13.0)	27 (6.1)	3 (0.7)	0 (0.0)
Infusion-related reactions	9 (2.0)	0 (0.0)	9 (2.1)	0 (0.0)

Data cutoff: 08 Aug 2023

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*There are differences in the rates of skin reactions reported for EV treatment-related AESIs and P TEAEs of special interest because these adverse events were reported via different methodologies developed for EV and P monotherapies, respectively
AESI, adverse event of special interest

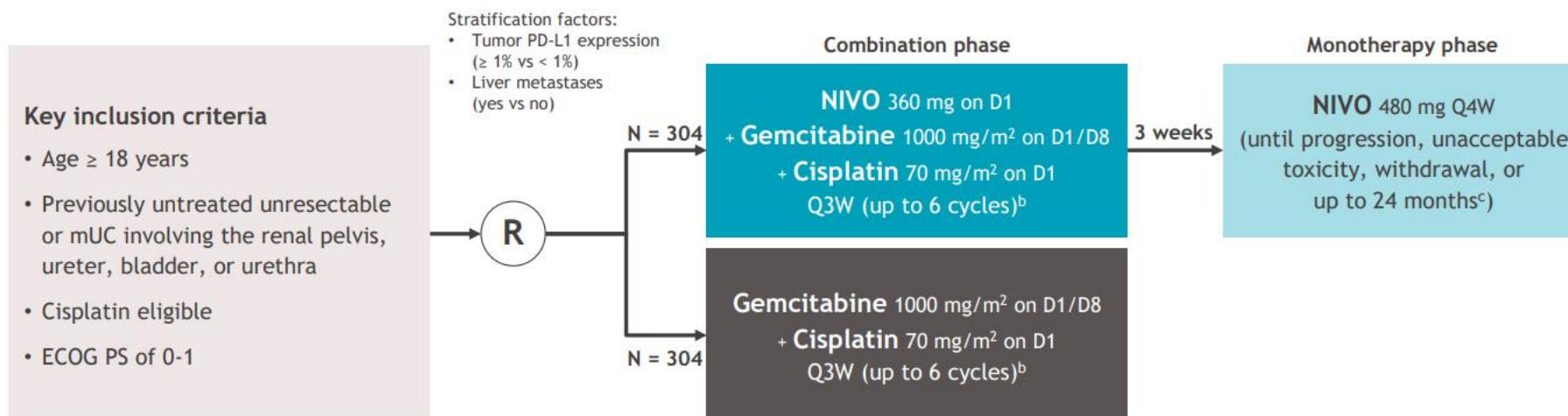
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Sisplatine uygun hastalarda KT+immünoterapi

CheckMate 901

Study design

- NIVO + gemcitabine-cisplatin vs gemcitabine-cisplatin in cisplatin-eligible patients^a



Median (range) study follow-up, 33.6 (7.4-62.4) months

Primary endpoints: OS, PFS per BICR

Key secondary endpoints: OS and PFS by PD-L1 $\geq 1\%$,^d HRQoL

Key exploratory endpoints: ORR per BICR, safety

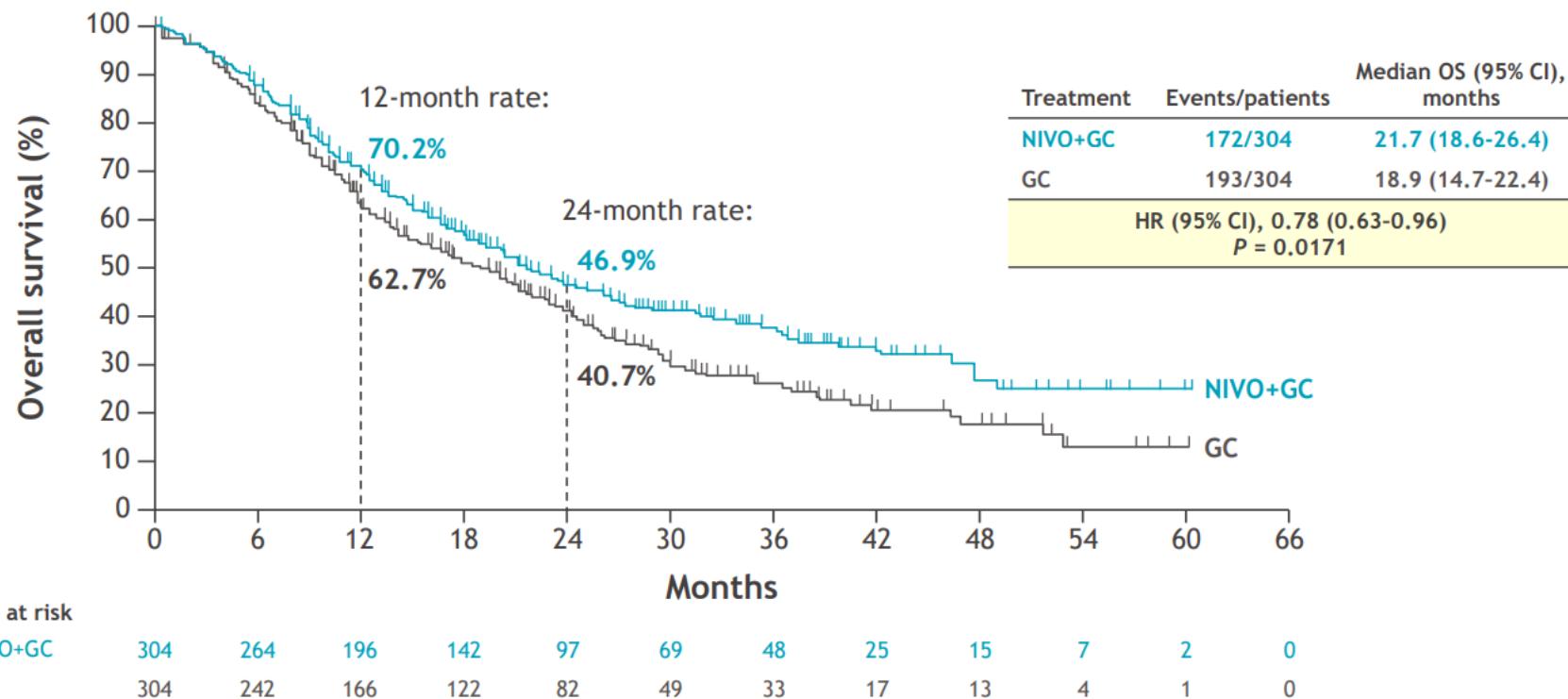
^aFurther CheckMate 901 trial design details are available at <https://clinicaltrials.gov/ct2/show/NCT03036098>. ^bPatients who discontinued cisplatin could be switched to gemcitabine-carboplatin for the remainder of the platinum doublet cycles (up to 6 in total). ^cA maximum of 24 months from first dose of NIVO administered as part of the NIVO + gemcitabine-cisplatin combination. ^dPD-L1 status was defined by the percentage of positive tumor cell membrane staining in a minimum of 100 tumor cells that could be evaluated with the use of the PD-L1 IHC 28-8 pharmDx immunohistochemical assay (Dako, Santa Clara, CA, USA).

BICR, blinded independent central review; D, day; ECOG PS, Eastern Cooperative Oncology Group performance status; HRQoL, health-related quality of life; ORR, objective response rate; PD-L1, programmed death ligand 1; PFS, progression-free survival; QxW, every x weeks; R, randomization.

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OS (primary endpoint)

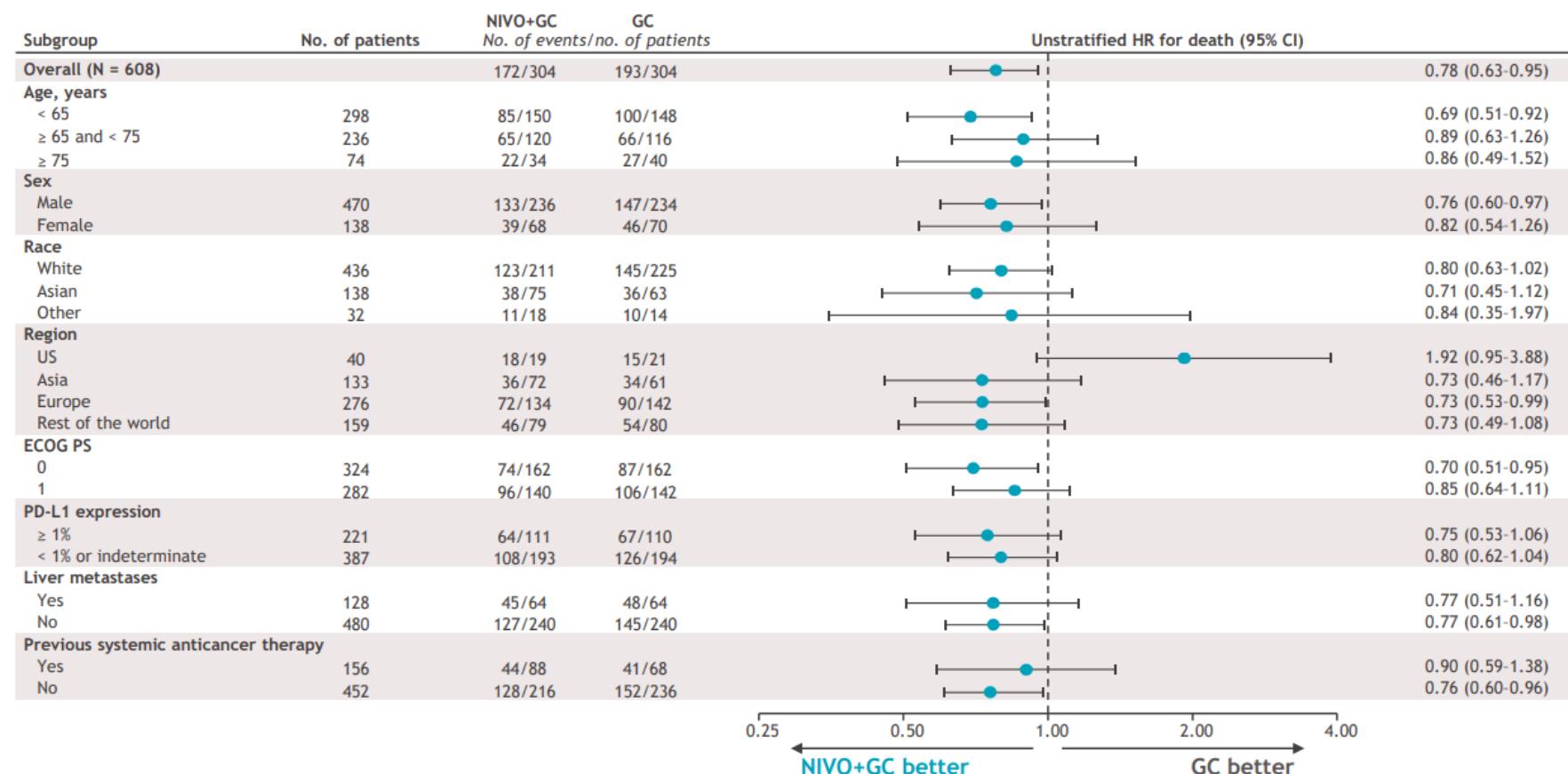


Median (range) study follow-up was 33.6 (7.4-62.4) months. OS was estimated in all randomized patients and defined as time from randomization to death from any cause. For patients without documented death, OS was censored on the last date the patient was known to be alive. For randomized patients with no follow-up, OS was censored at randomization.

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CheckMate 901

OS in subgroups

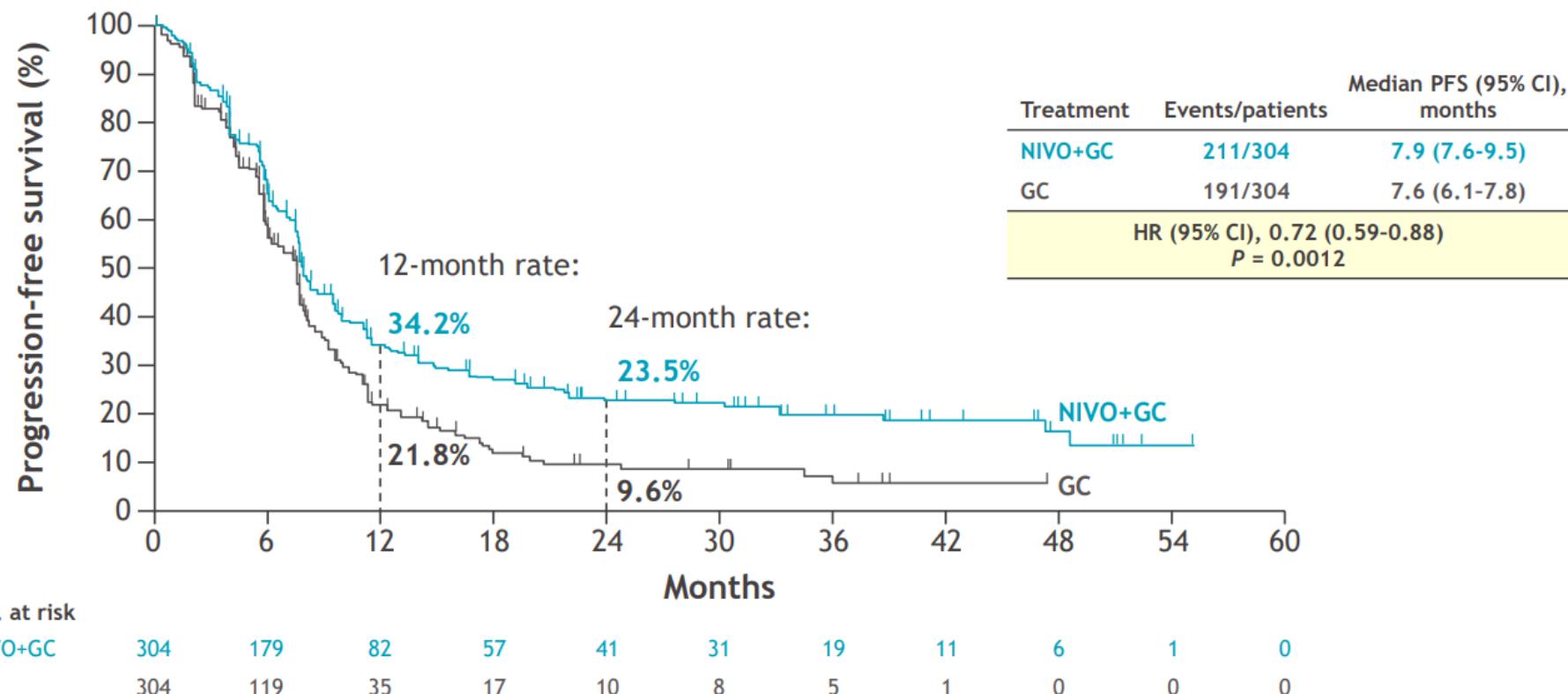


All randomized patients. HRs were not computed for subgroup categories (except for age, sex, race, and region) with < 10 patients per treatment group. Categories without a meaningful estimate of the HR are not shown. PD-L1 expression and liver metastases are per interactive response technology. There were no patients with indeterminate PD-L1 status. Previous systemic anticancer therapy refers to neoadjuvant/adjuvant treatments for patients undergoing radical resection or as part of a bladder-sparing approach in muscle-invasive bladder cancer.

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PFS per BICR (primary endpoint)

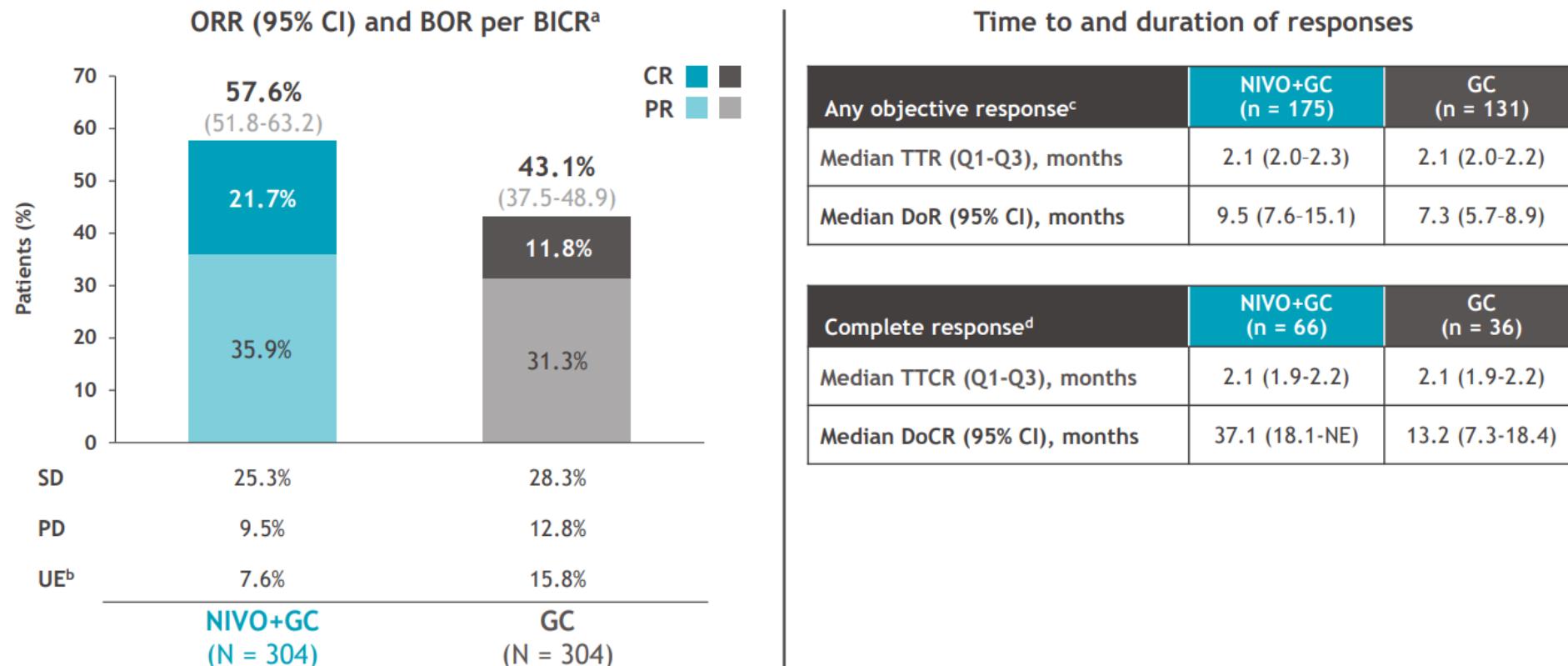


Median (range) study follow-up was 33.6 (7.4-62.4) months. PFS was estimated in all randomized patients and defined as time from randomization to first documented disease progression (per BICR assessments using RECIST v1.1) or death due to any cause, whichever occurred first. Patients who did not progress or die were censored at last evaluable tumor assessment. Patients without on-study tumor assessments who did not die were censored at randomization. Patients who started any subsequent anticancer therapy without prior reported progression were censored at last evaluable tumor assessment before initiation of subsequent therapy.

Sisplatine uygun hastalarda KT+immünoterapi

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Objective response outcomes (exploratory endpoints)

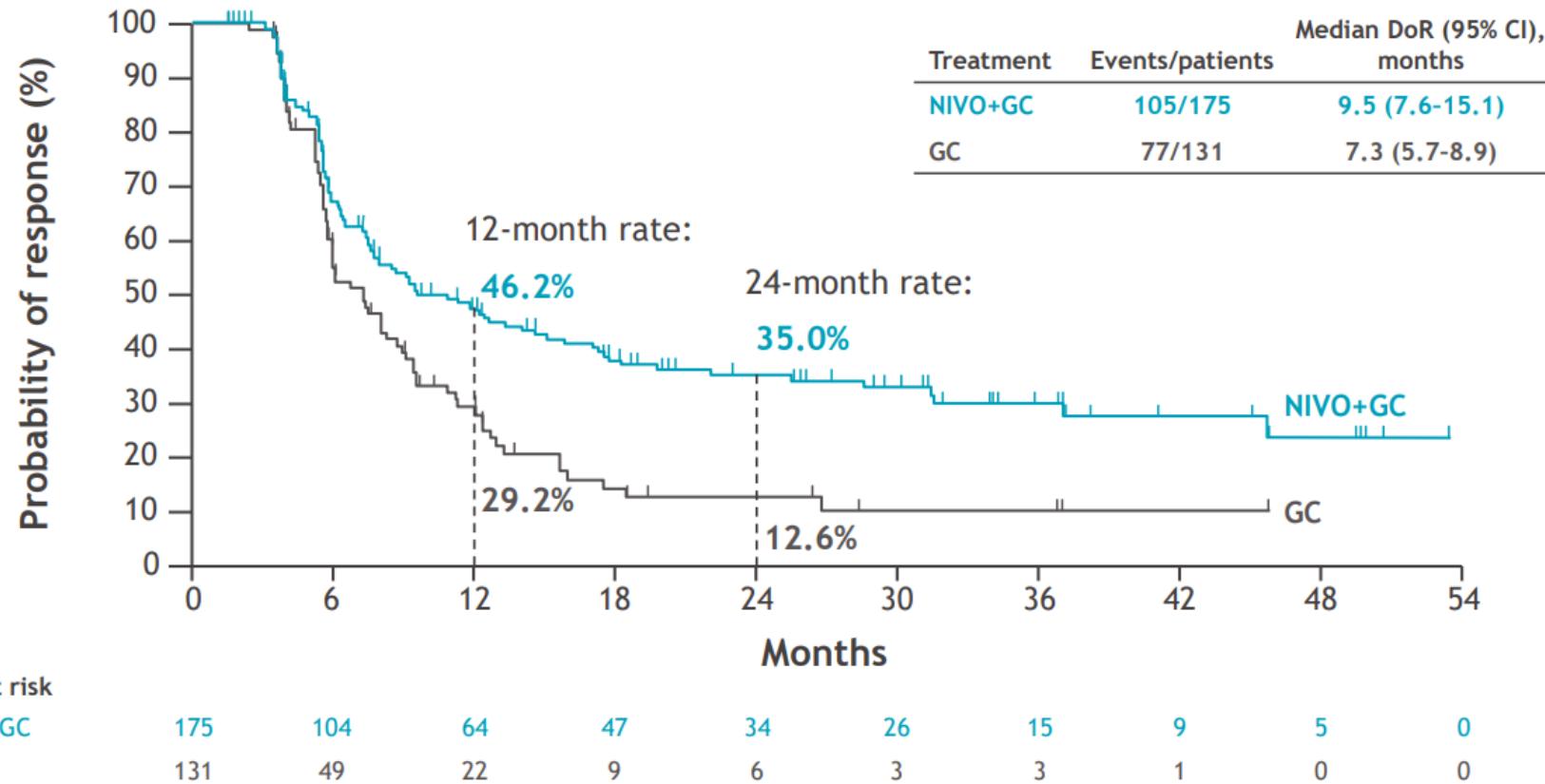


^aIn all randomized patients. ^bThe most common reasons for UE response included death before first tumor assessment, withdrawal of consent, treatment stopped due to toxicity, patient never treated, and receipt of subsequent anticancer therapy before first tumor assessment. ^cBased on patients with an objective response per BICR (PR or CR as BOR). ^dBased on patients with a CR per BICR. BOR, best overall response; CR, complete response; DoCR, duration of complete response; DoR, duration of objective response; NE, not estimable; PD, progressive disease; PR, partial response; Q, quartile; SD, stable disease; TTTR, time to complete response; TTR, time to objective response; UE, unevaluable.

Sisplatine uygun hastalarda KT+immünoterapi

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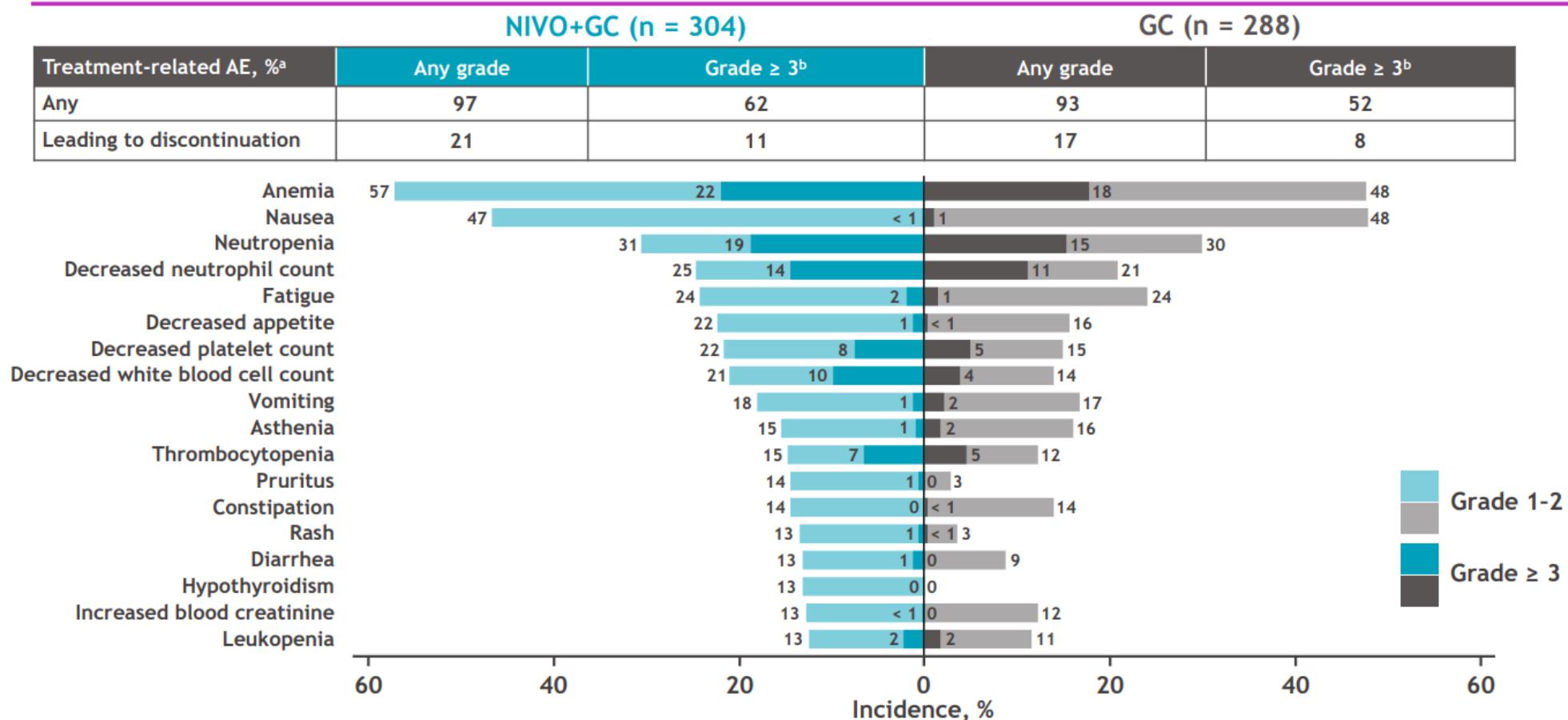
Duration of objective response per BICR



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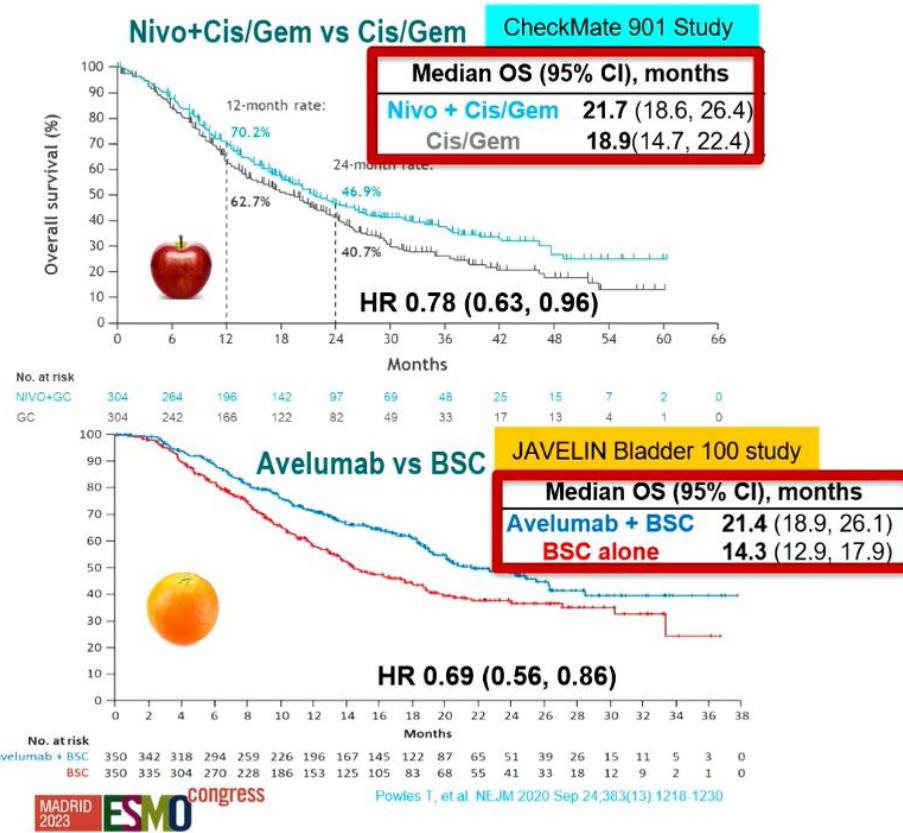
Treatment-related AEs in all treated patients



^aIncludes events that occurred in treated patients between first dose and 30 days after last dose of study therapy. Tornado plot displays individual treatment-related AEs occurring at any grade in $\geq 10\%$ of treated patients in either arm. ^bOne grade 5 event occurred in each arm (sepsis in the NIVO+GC arm and acute kidney injury in the GC arm). AE, adverse event.

Evre IV mesane birinci basamak tedavi seçenekleri

Both sequential and combination chemo and CPI have efficacy



- We cannot directly compare these studies
- Different patient populations
- Avelumab maintenance study included only responders to 1L chemo
- Length of maintenance CPI therapy was similar: ~6 months for both



Andrea Apolo

Invited Discussant LBA6 and LBA7



Presented by Andrea B. Apolo, MD

Gelecek Perspektif

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

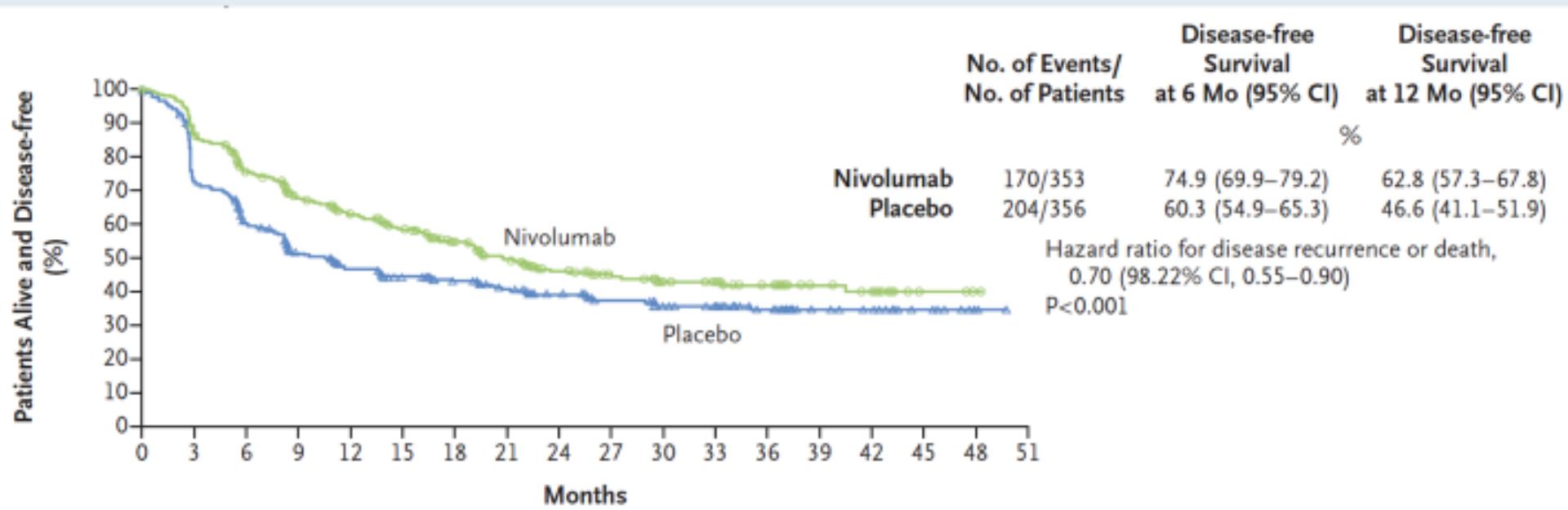
Adjuvant Nivolumab versus Placebo in Muscle-Invasive Urothelial Carcinoma

D.F. Bajorin, J.A. Witjes, J.E. Gschwend, M. Schenker, B.P. Valderrama, Y. Tomita,
A. Bamias, T. Lebret, S.F. Shariat, S.H. Park, D. Ye, M. Agerbaek, D. Enting,
R. McDermott, P. Gajate, A. Peer, M.I. Milowsky, A. Nosov, J. Neif Antonio, Jr.,
K. Tupikowski, L. Toms, B.S. Fischer, A. Qureshi, S. Collette, K. Unsal-Kacmaz,
E. Broughton, D. Zardavas, H.B. Koon, and M.D. Galsky

N Engl J Med 2021 June 3;384:2102-14.

Gelecek Perspektif

CheckMate 274: Disease-Free Survival in the ITT Population



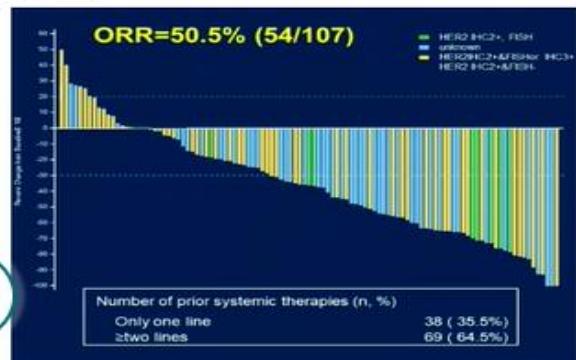
Gelecek Perspektif

Does CPI combine best with ADCs with MMAE payloads?

Disitamab vedotin in HER2 2/3+ Metastatic Urothelial Carcinoma

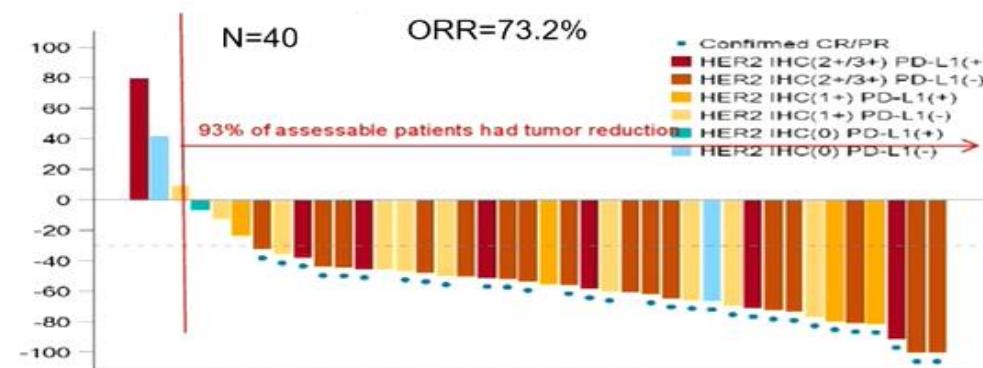
Disitamab vedotin

N=107 In the Second or Third-line setting



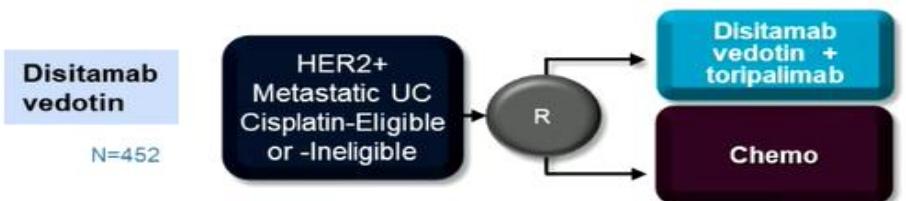
Sheng, et al. ASCO 2022 abstract 4518

Disitamab vedotin + toripalimab



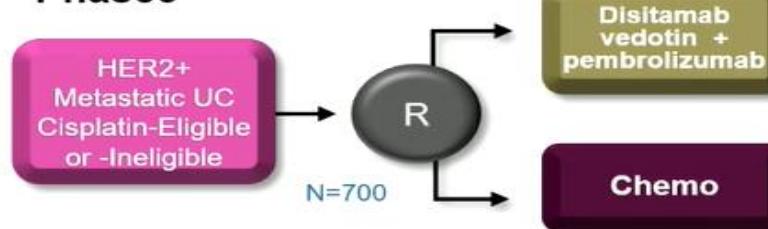
Sheng, X., et al. ASCO 2023

Phase 3



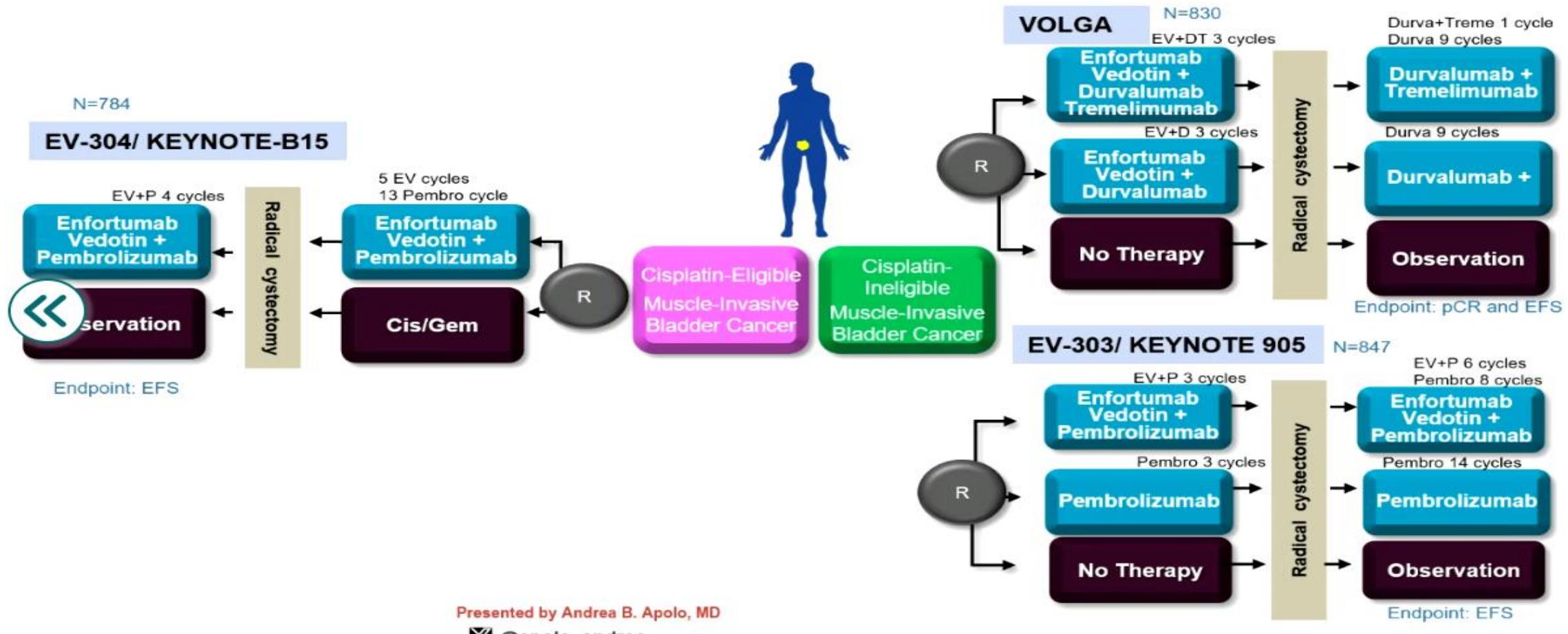
Presented by Andrea B. Apolo, MD
X @apolo_andrea

Phase3



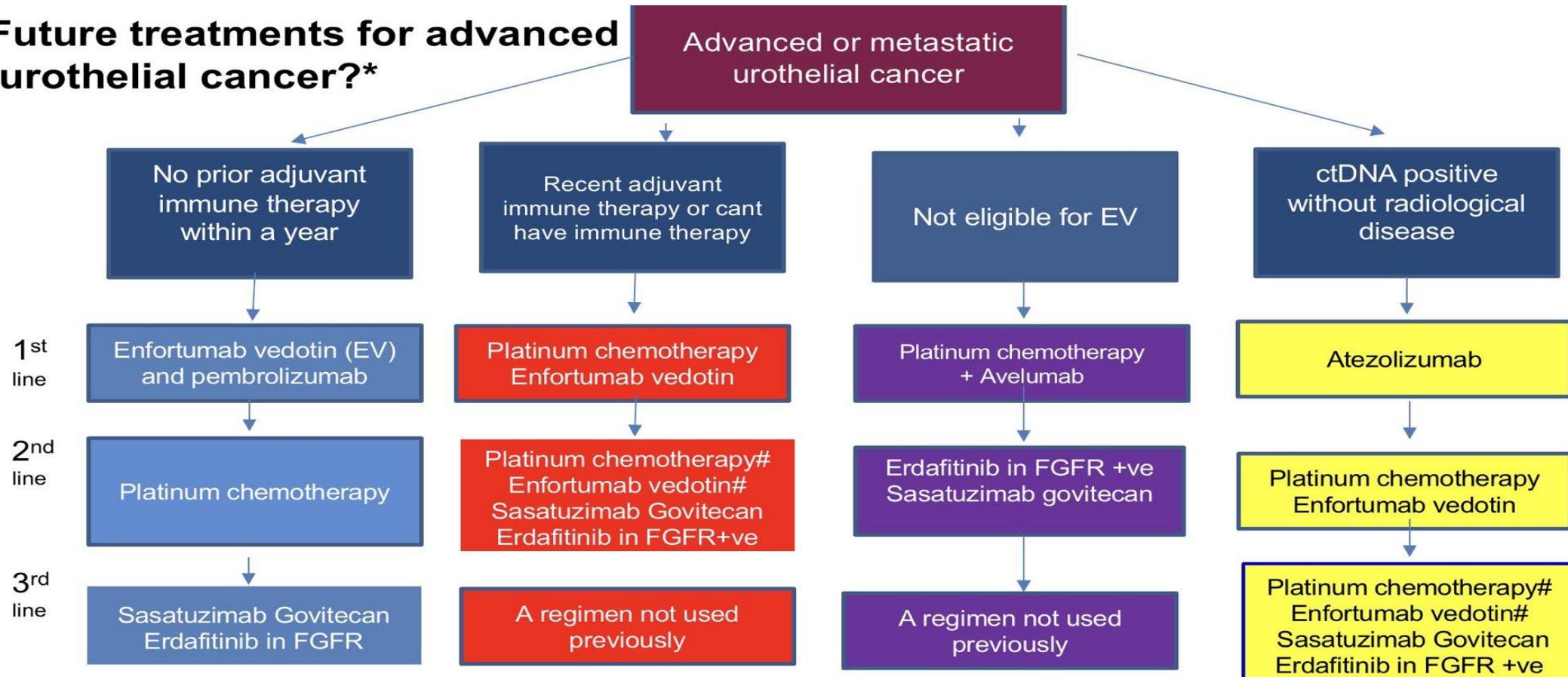
Gelecek Perspektif

What is the efficacy of EV+CPI as Neoadjuvant or Adjuvant Therapy for MIBC?



Gelecek Perspektif

Future treatments for advanced urothelial cancer?*



*Assuming EV302 (EV/pembro), TROPICs (SG), IM011 (ctDNA+ve), THOR are +ve for OS
unless given previously

Sonuç

- Enfortumab vedotin +pembrolizumab standart tedavi
- Evre IV mesane kanserinde birinci basamak tedavide sisplatin+gemsitabin+nivolumab bir seçenek
- Platin bazlı kemoterapi sonrası klinik yarar(CR/PR/SD) gören hastalarda idame tedavi olarak Avelumab bir seçenek
- Sisplatin alamayacak hastalarda carboplatin+ gemsitabin kemoterapi kombinasyonu klinik yarar alanlarda Avelumab
idame tedavi olarak bir seçenek
- Platin bazlı kemoterapi alamayacak hastalarda birinci basamak tedavide (ECOG PS \geq 2, komorbidite vs.) PD-L1 düzeyinden bağımsız Pemrolizumab önerilebilir