

Second Opinion: Integrating Novel Approaches into the Management of Non-Muscle-Invasive and Muscle-Invasive Bladder Cancer

*A CME Symposium Held Adjunct to the
2026 ASCO® Genitourinary Cancers Symposium*

Thursday, February 26, 2026

7:00 PM – 9:00 PM PT (10:00 PM – 12:00 AM ET)

Faculty

Matthew D Galsky, MD

Shilpa Gupta, MD

Andrea Necchi, MD

Moderator

Terence Friedlander, MD

Faculty



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Moderator

Terence Friedlander, MD

Professor of Medicine and Robert and Virginia
O'Reilly Family Endowed Chair
Chief, Division of Hematology/Oncology
Zuckerberg San Francisco General Hospital
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Second Opinion



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Dr Galsky — Disclosures Faculty

Consulting Agreements	AbbVie Inc, AstraZeneca Pharmaceuticals LP, EMD Serono Inc, Gilead Sciences Inc, Janssen Biotech Inc, Merck, Pfizer Inc, Seagen Inc
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Dr Gupta — Disclosures Faculty

Advisory Committees	Bristol Myers Squibb, Merck, Novartis, Pfizer Inc, Tyra Biosciences Inc
Consulting Agreements	Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bristol Myers Squibb, Convergent Therapeutics Inc, Foundation Medicine, Johnson & Johnson, Merck, Pfizer Inc
Contracted Research	Amgen Inc, Bristol Myers Squibb, Convergent Therapeutics Inc, Flare Therapeutics, Merck, Novartis, Pfizer Inc, Roche Laboratories Inc, Tyra Biosciences Inc
Data and Safety Monitoring Boards/ Committees	Protara Therapeutics

Prof Necchi — Disclosures Faculty

Advisory Committees	Bristol Myers Squibb, CatalYm, Daiichi Sankyo Inc, Genenta Science, Johnson & Johnson, Merck
Consulting Agreements	AstraZeneca Pharmaceuticals LP, Gilead Sciences Inc, Johnson & Johnson, Merck, Pfizer Inc, Samsung Bioepis
Contracted Research	AstraZeneca Pharmaceuticals LP, Bristol Myers Squibb, Merck

Dr Friedlander — Disclosures

Moderator

Advisory Committees	Aadi Bioscience, AbbVie Inc, Adaptimmune, Aktis Oncology, Astellas, Bicycle Therapeutics, Bristol Myers Squibb, Gilead Sciences Inc, Merck, Pfizer Inc, Samsung Bioepis
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Dr Plimack — Disclosures

Consulting Clinical Investigator

Advisory Committees	23andMe, Adaptimmune, Astellas, Bristol Myers Squibb, Cyana Therapeutics, Daiichi Sankyo Inc, Domain Therapeutics, Eisai Inc, enGene, Flatiron Health, Johnson & Johnson, Merck, Natera Inc, Ottimo Pharma, Pfizer Inc, UroGen Pharma
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Consulting Clinical Investigator

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This activity is supported by educational grants from Genentech, a member of the Roche Group, Johnson & Johnson, and Natera Inc.

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Second Opinion: Clinical Investigators Provide Perspectives on the Future Role of AKT Inhibition in the Management of Prostate Cancer

*A CME Symposium Held Adjunct to the
2026 ASCO® Genitourinary Cancers Symposium*

Friday, February 27, 2026

6:00 PM – 7:30 PM PT (9:00 PM – 10:30 PM ET)

Faculty

Professor Karim Fizazi, MD, PhD

Daniel George, MD

Moderator

Elisabeth I Heath, MD

Save The Date

Fifth Annual National General Medical Oncology Summit

*A Multitumor CME/MOC-, NCPD- and ACPE-Accredited
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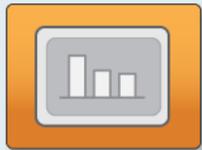
Friday to Sunday, April 24 to 26, 2026

The Ritz-Carlton Orlando, Grande Lakes | Orlando, Florida

Moderated by Neil Love, MD

Clinicians in the Meeting Room

Please refer to the printed handout provided with your meeting syllabus, and scan the corresponding QR code to



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Answer Survey Questions: Complete the pre- and postmeeting surveys.



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SECOND OPINION Integrating Novel Approaches into the Management of Non-Muscle-Invasive and Muscle-Invasive Bladder Cancer

QUICK GUIDE TO IMPORTANT LINKS

- Ask the faculty – submit cases and questions 
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ACCESS PROGRAM SLIDES

- Dr Friedlander – Non-Muscle-Invasive Bladder Cancer 
-  Dr Gupta – Muscle-Invasive Bladder Cancer
- Prof Necchi – Nonmetastatic Urothelial Bladder Cancer 
-  Dr Galsky – Nonmetastatic Urothelial Bladder Cancer

Clinicians Attending via Zoom



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About the Enduring Program

- The live meeting is being video and audio recorded.
- The proceedings from today will be edited and developed into an enduring web-based program.

An email will be sent to all attendees when the activity is available.

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Agenda

Module 1: Optimal Use of Anti-PD-1/PD-L1 Antibodies in Non-Muscle-Invasive Bladder Cancer — Dr Friedlander

Module 2: Evolving Management of Muscle-Invasive Bladder Cancer — Dr Gupta

Module 3: Current and Future Role of Novel Intravesical Therapies in Nonmetastatic Urothelial Bladder Cancer (UBC) — Dr Necchi

Module 4: Emerging Utility of Circulating Tumor DNA Evaluation in Nonmetastatic UBC — Dr Galsky

Agenda

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Module 4: Emerging Utility of Circulating Tumor DNA Evaluation in Nonmetastatic UBC — Dr Galsky

Optimal Use of Anti-PD-1/PD-L1 Antibodies in Non-Muscle-Invasive Bladder Cancer (NMIBC)

Terence Friedlander, MD

Clinical Professor

Robert and Virginia O'Reilly Family Endowed Chair

Helen Diller Family Comprehensive Cancer Center

University of California, San Francisco

Chief of Hematology-Oncology

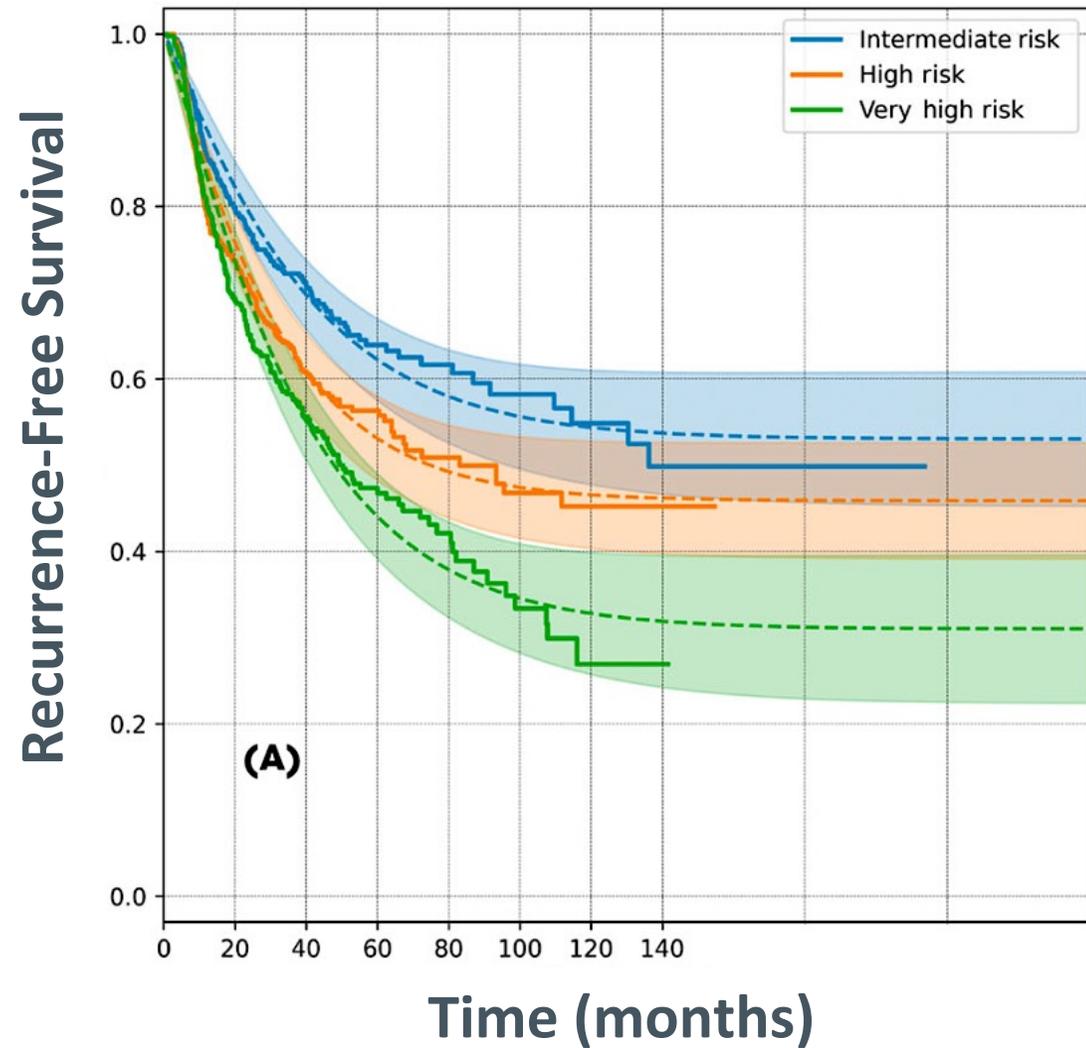
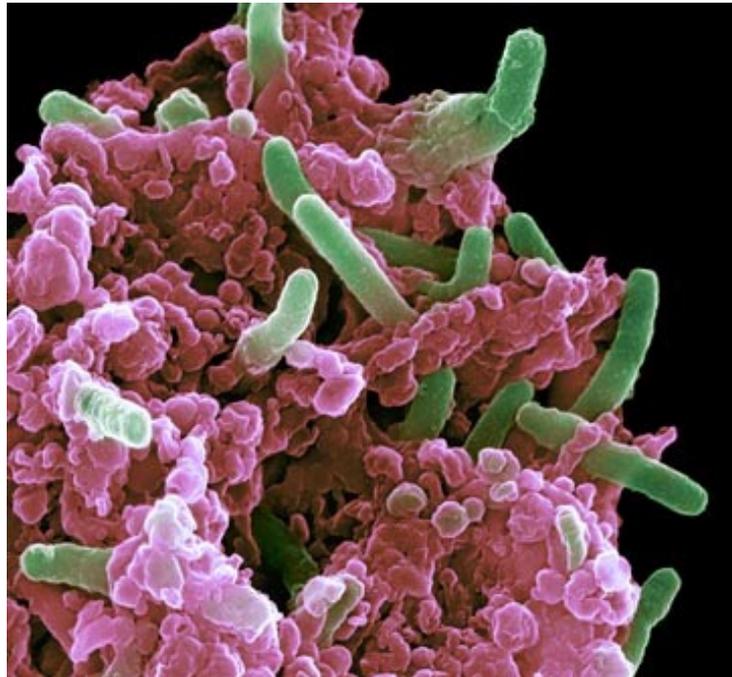
Zuckerberg San Francisco General Hospital and Trauma Center

San Francisco, California

Outline

- Rationale for use of PD-1 immunotherapy + BCG for treatment-naïve, high-risk NMIBC
 - Safety and Efficacy from recent Phase III trials
 - CREST
 - POTOMAC
 - ALBAN
 - Future Directions
-

BCG is the Standard of Care for treatment-naïve NMIBC



Why add PD-1 immunotherapy to BCG?

- Immunologically
 - BCG upregulates PD-L1 on tumors and tumor infiltrating lymphocytes (TIL)
 - BCG-resistant tumors have higher PD-L1 expression
 - Resistance associated with T-cell exhaustion
- Clinically
 - Unmet need for better therapies for high-risk NMIBC
 - Synergy of 2 immunotherapies
 - BCG addresses localized disease
 - PD-1 addresses any disease beyond the urothelium



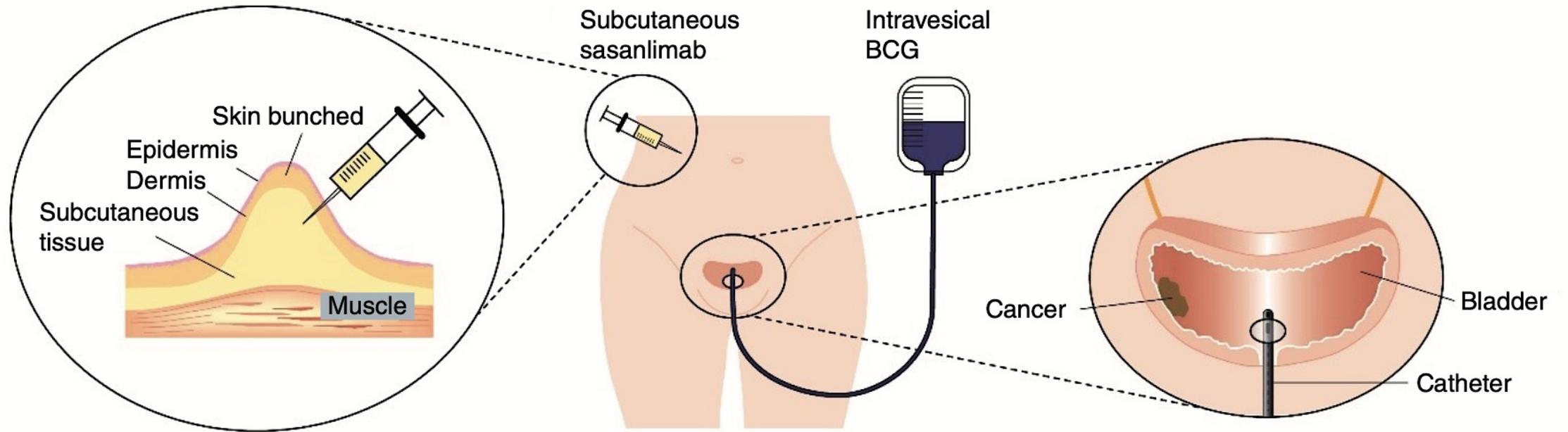
Sasanlimab in combination with Bacillus Calmette-Guérin (BCG) in BCG-naive, high-risk non-muscle-invasive bladder cancer (NMIBC): Event-free survival (EFS) subgroup analyses based on disease stage from the CREST study

Thomas B. Powles,¹ Neal D. Shore,² Jens Bedke,³ Matthew D. Galsky,⁴ Joan Palou Redorta,⁵ Hailong Hu,⁶ Evangelos Xylinas,⁷ Javier Puente,⁸ Jason M. Hafron,⁹ Michele Lodde,¹⁰ Alketa Hamzaj,¹¹ Julia Brinkmann,¹² Anna-Maria Calella,¹³ Rossano Cesari,¹⁴ Jennifer Vermette,¹⁵ Caimiao Wei,¹⁶ Gary D. Steinberg¹⁷

¹Barts Experimental Cancer Medicine Centre, Barts Cancer Institute, Queen Mary University of London, London, UK; ²START Carolinas/Carolina Urologic Research Center, Myrtle Beach, SC, USA; ³Department of Urology & Transplantation Surgery, Eva May-Stihl Cancer Center, Klinikum Stuttgart, Stuttgart, Germany; ⁴The Tisch Cancer Institute, Mount Sinai, New York, NY USA; ⁵Department of Urology, Fundació Puigvert, Universitat Autònoma de Barcelona, Barcelona, Spain; ⁶Second Hospital of Tianjin Medical University, Tianjin, China; ⁷Department of Urology, Bichat-Claude Bernard Hospital, Assistance Publique-Hôpitaux de Paris, Paris Cité University, Paris, France; ⁸Medical Oncology, Hospital Clínico San Carlos, Instituto de Investigación Sanitaria del Hospital Clínico San Carlos (IdISSC), CIBERONC, Madrid, Spain; ⁹Medical Oncology, Hospital Clínico San Carlos, Madrid, Spain; ¹⁰Laval University, Quebec City, QB, Canada; ¹¹UOC Oncologia Arezzo, Ospedale San Donato, Arezzo, Italy; ¹²Pfizer Pharma GmbH, Berlin, Germany; ¹³Pfizer SRL, Rome, Italy; ¹⁴Pfizer SRL, Milan, Italy; ¹⁵Pfizer Inc, Cambridge, MA, USA; ¹⁶Pfizer Inc, Groton, CT, USA; ¹⁷Department of Urology, Rush University Medical Center, Chicago, IL, USA

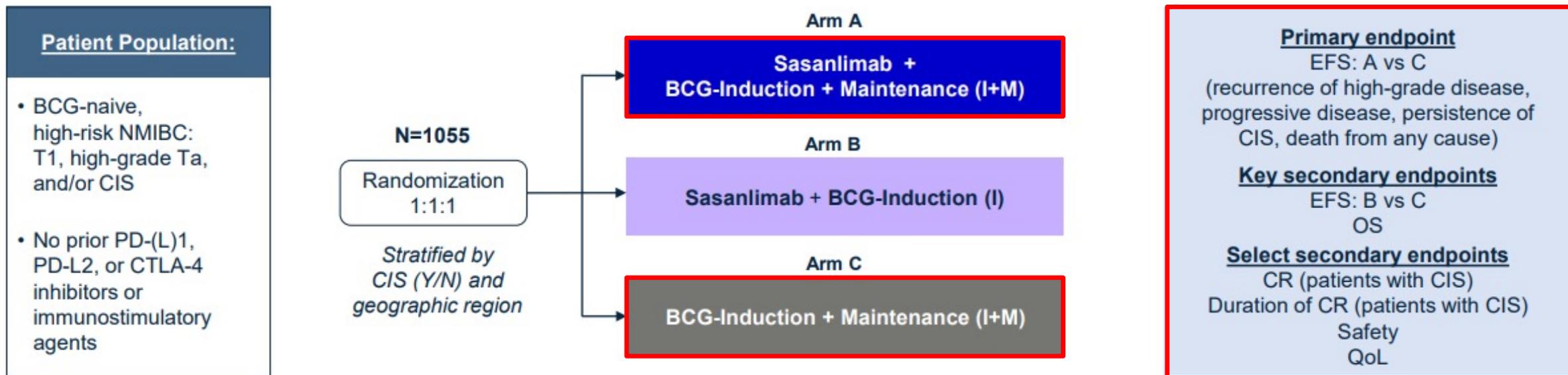
Prof Thomas Powles, MBBS, MRCP, MD

CREST Study (NCT04165317)



- Sasanlimab
 - Novel humanized IgG4 monoclonal anti-PD-1 ab
 - **Subcutaneous dosing 300mg q4 weeks**

CREST Study (NCT04165317)



Final EFS analysis data cut-off date: Dec 2, 2024
Median follow-up for EFS: 36.3 mo

BCG-I+M: BCG induction (6 doses)^a and maintenance (up to 2 years) therapy
BCG-I: BCG induction (6 doses)^a only
Sasanlimab: Administered SC for up to 25 four-week cycles

Here we present exploratory EFS subgroup analyses based on disease stage at randomization and PD-L1 status

^aRe-induction was permitted for pts with CIS at randomization who had persistent disease or recurrence of high-grade Ta disease at 3 months after initiating study treatment.
BCG, Bacillus Calmette-Guérin; CIS, carcinoma in situ; CR, complete response; CTLA-4: cytotoxic T lymphocyte-associated antigen 4; EFS, event-free survival; I, induction; M, maintenance; NMIBC, non-muscle invasive bladder cancer; PD-1, Programmed cell death-1; PD-L1/PD-L2, Programmed cell death-ligand 1/2; QoL, quality of life.

Baseline Demographics and Disease Characteristics: Arm A vs Arm C

Baseline characteristics were balanced and representative of the HR-NMIBC population

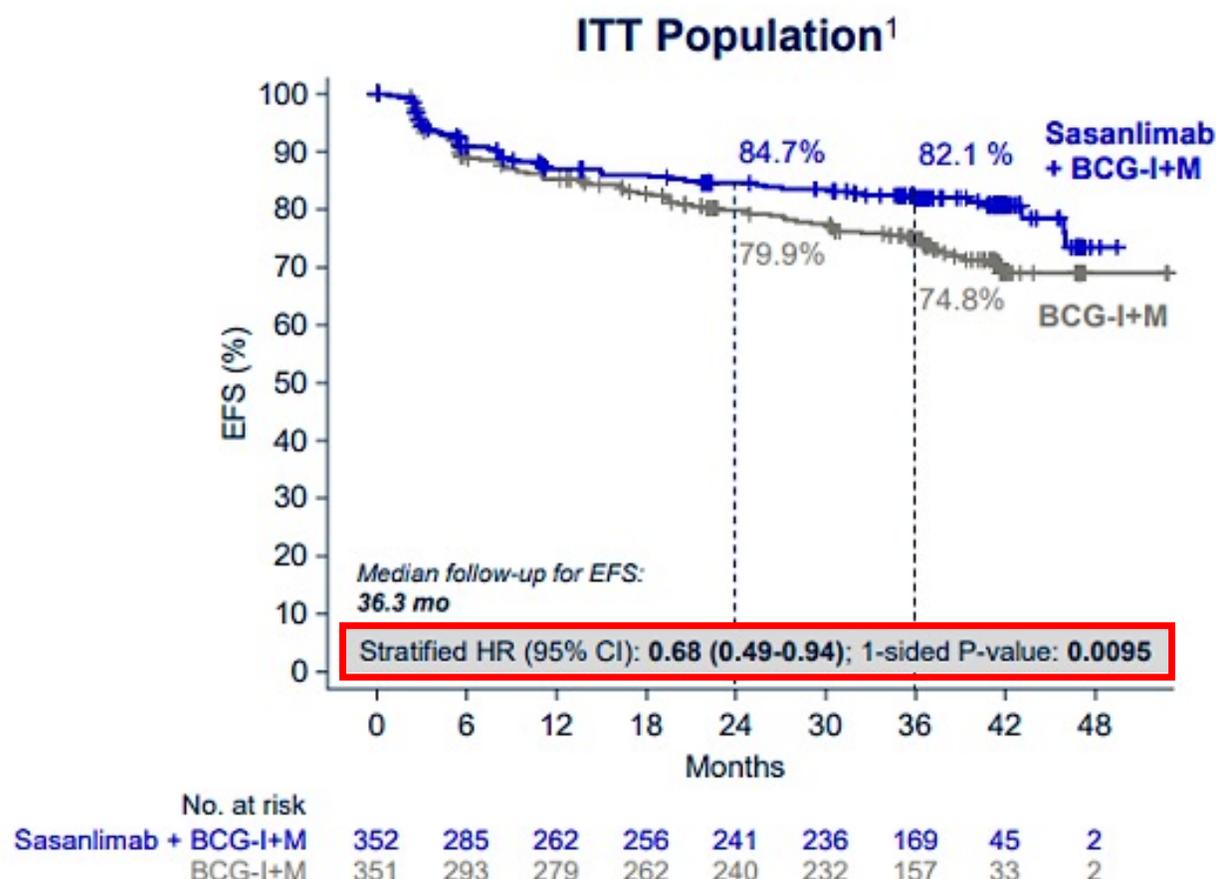
	Sasanlimab + BCG-I+M (N=352)	BCG-I+M (N=351)
Median age, y (range)	67 (31–85)	67 (31–91)
Male, n (%)	280 (79.5)	284 (80.9)
Race, n (%)		
White	225 (63.9)	210 (59.8)
Asian	115 (32.7)	126 (35.9)
ECOG PS, n (%)		
0	298 (84.7)	291 (82.9)
1	54 (15.3)	59 (16.8)
Geographic region, n (%)		
US	49 (13.9)	47 (13.4)
Western Europe or Canada	85 (24.1)	86 (24.5)
Rest of world	218 (61.9)	218 (62.1)
Smoking history, n (%)		
Never smoker	127 (36.1)	126 (35.9)
Current smoker	71 (20.2)	54 (15.4)
Former smoker	154 (43.8)	171 (48.7)

	Sasanlimab + BCG-I+M (N=352)	BCG-I+M (N=351)
Histological classification, n (%)		
UC	339 (96.3)	332 (94.6)
Disease stage, n (%)		
Ta	96 (27.3)	107 (30.5)
T1	204 (58.0)	194 (55.3)
Pure CIS	52 (14.8)	50 (14.2)
CIS ± Ta or T1	88 (25.0)	88 (25.1)
Highest grade of tumor, n (%)		
High	319 (90.6)	316 (90.0)
Low	33 (9.4)	35 (10.0)
Number of tumors, n (%)		
Single	199 (56.5)	182 (51.9)
Multiple	136 (38.6)	146 (41.6)
Size of largest tumor, n (%)		
<3 cm	193 (54.8)	190 (54.1)
≥3 cm	94 (26.7)	95 (27.1)

CIS, carcinoma in situ; ECOG PS, Eastern Cooperative Oncology Group performance status; HR, high-risk; NMIBC, non-muscle invasive bladder cancer; UC, urothelial carcinoma.

Primary Endpoint EFS by Investigator: Arm A vs Arm C

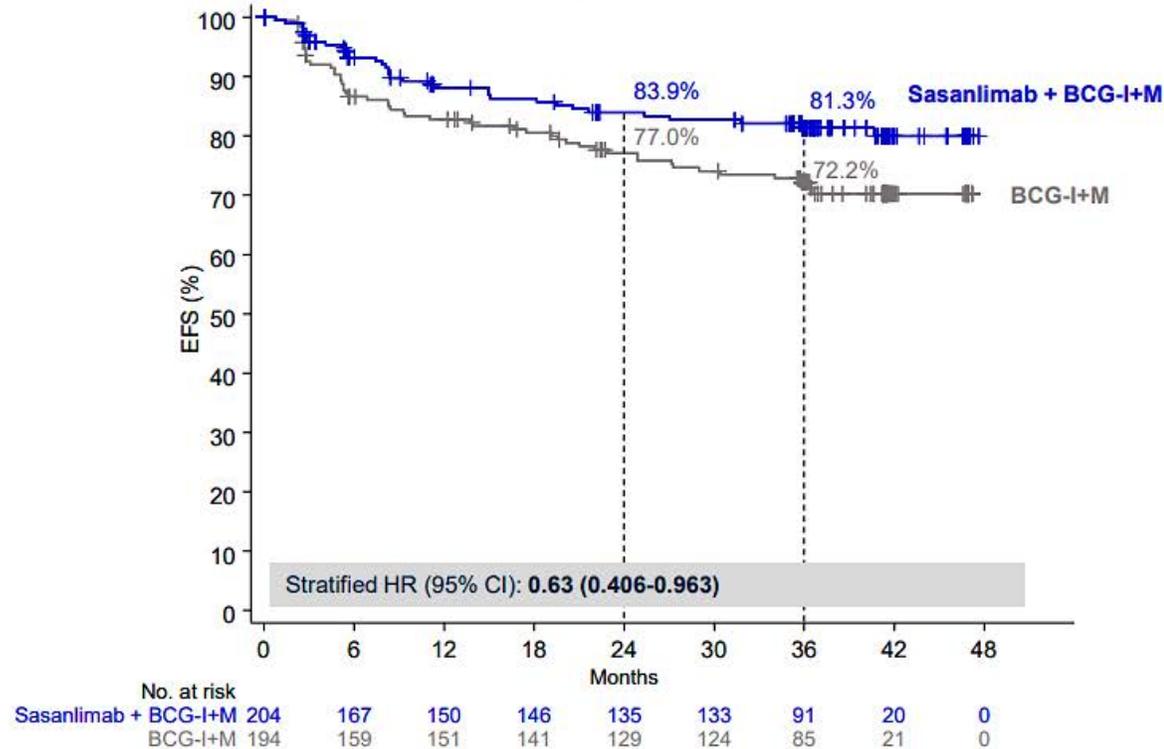
The risk of having an EFS event was lower with sasanlimab + BCG-I+M vs BCG-I+M



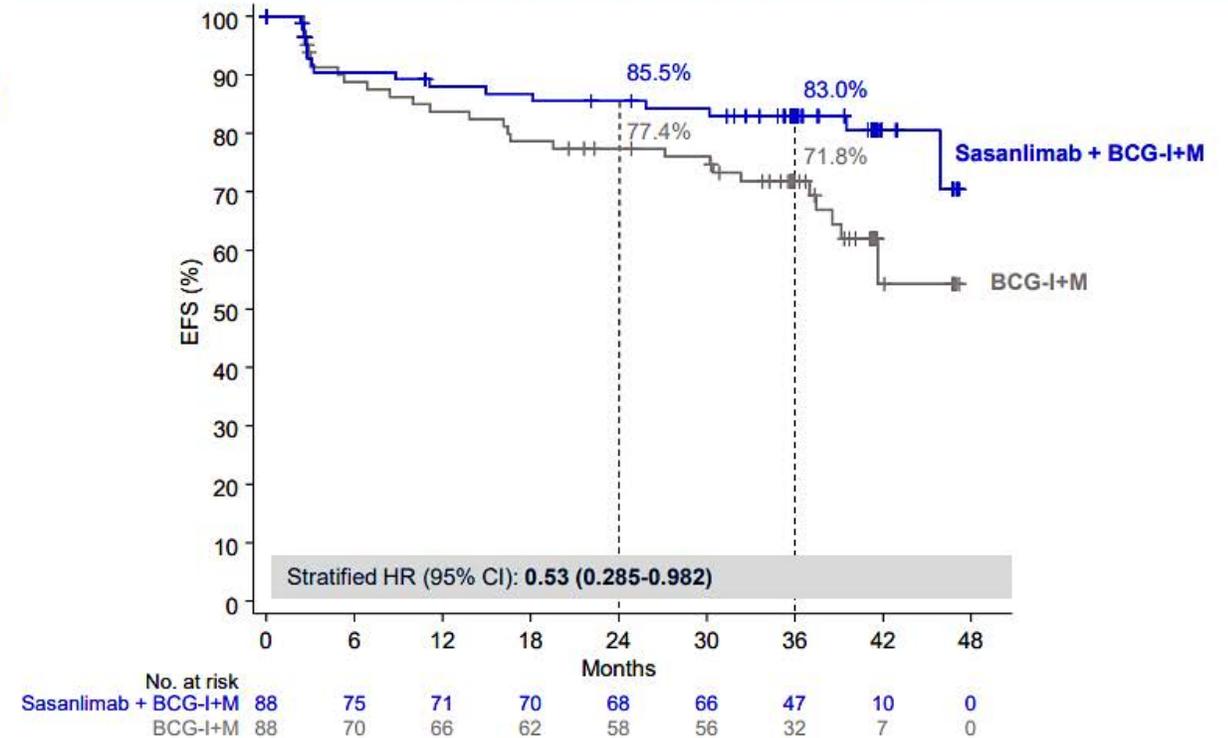
BCG, Bacillus Calmette-Guérin; CIS, carcinoma in situ; EFS, event-free survival; I, induction; ITT, intention to treat; M, maintenance.
1. Shore N, et al. AUA 2025 (Oral).

EFS by T stage: Arm A vs Arm C

T1 at baseline

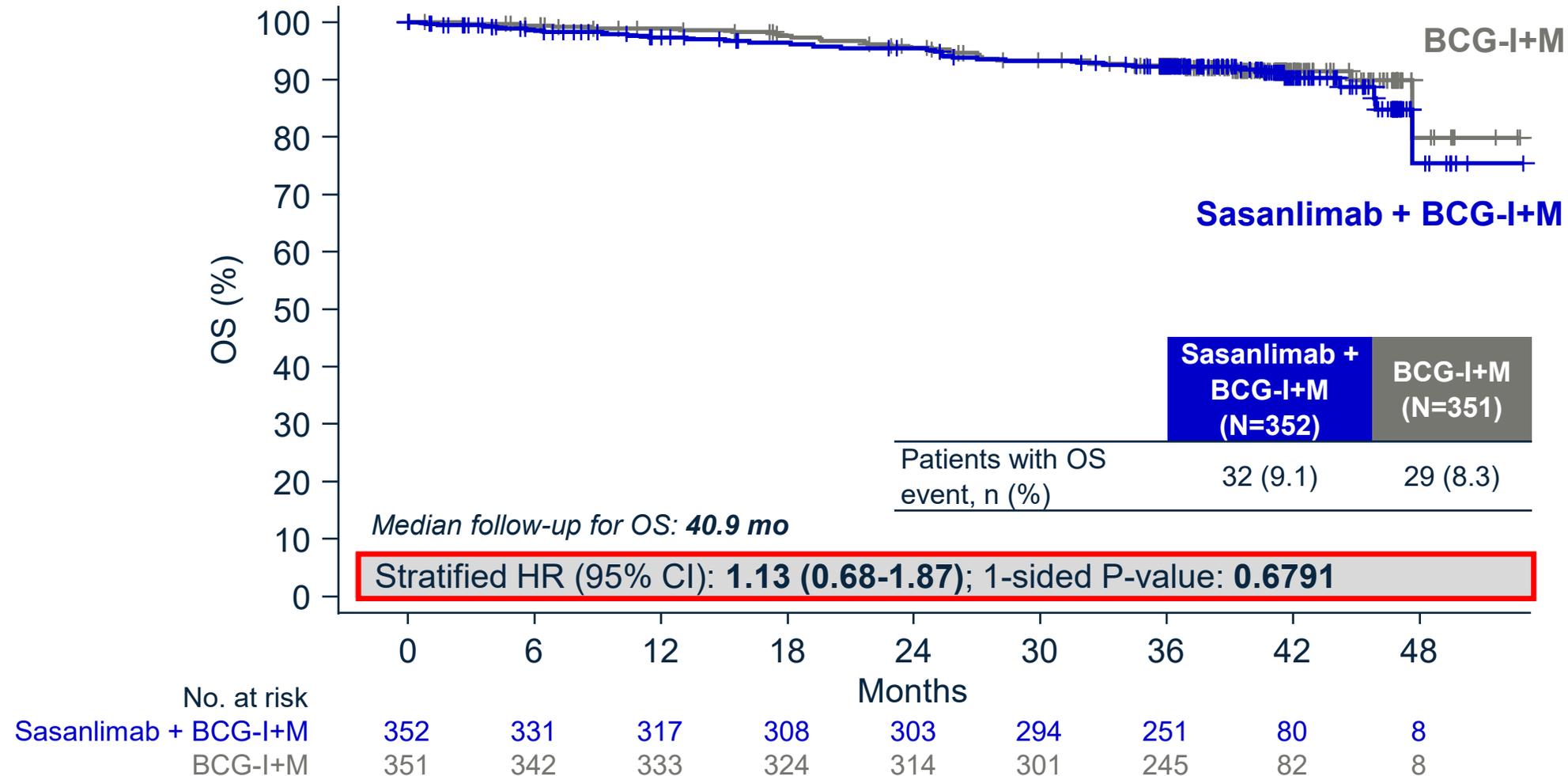


CIS at baseline



Key Secondary Endpoint: OS for Arm A vs Arm C

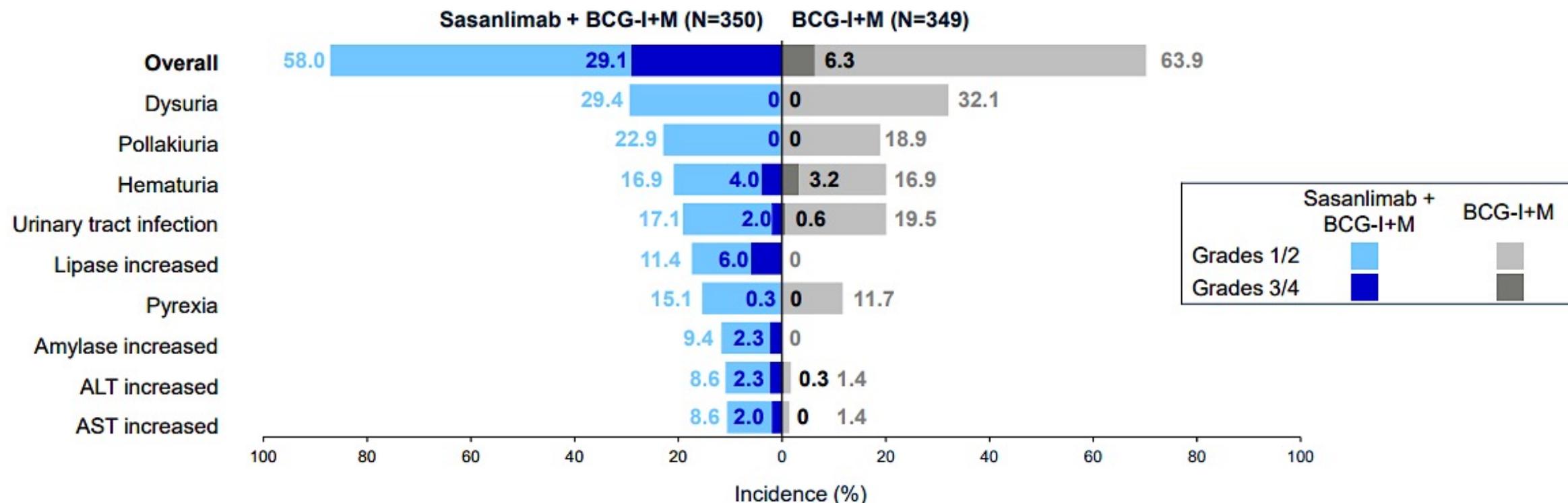
Interim OS results suggest no meaningful difference between treatment arms



BCG, Bacillus Calmette-Guérin; I, induction; M, maintenance; OS, overall survival.

Treatment Related Adverse Events: Arm A vs Arm C

The observed safety profile was consistent with the known safety profile for each individual agent



- The median duration (range) of sasanlimab was 80.3 weeks (4.0-103.9) for the sasanlimab + BCG-I+M arm. The median duration (range) of BCG was 98.1 weeks (2.0, 125.1) for the sasanlimab + BCG-I+M arm and 98.9 weeks (2.0, 110.0) for the BCG-I+M arm
- Serious TRAEs were reported in 62 (17.7%) and 5 (1.4%) patients in Arms A and C, respectively**
- There were no TRAEs leading to death in Arm A or Arm C

Included are TRAEs that occurred in at least 15% of the patients in any treatment group or grade ≥3 TRAEs that occurred in at least 2% of the patients in any treatment group. BCG, Bacillus Calmette-Guérin; I, induction; M, maintenance; TRAE, treatment-related treatment-emergent adverse event.

Impact on Practice

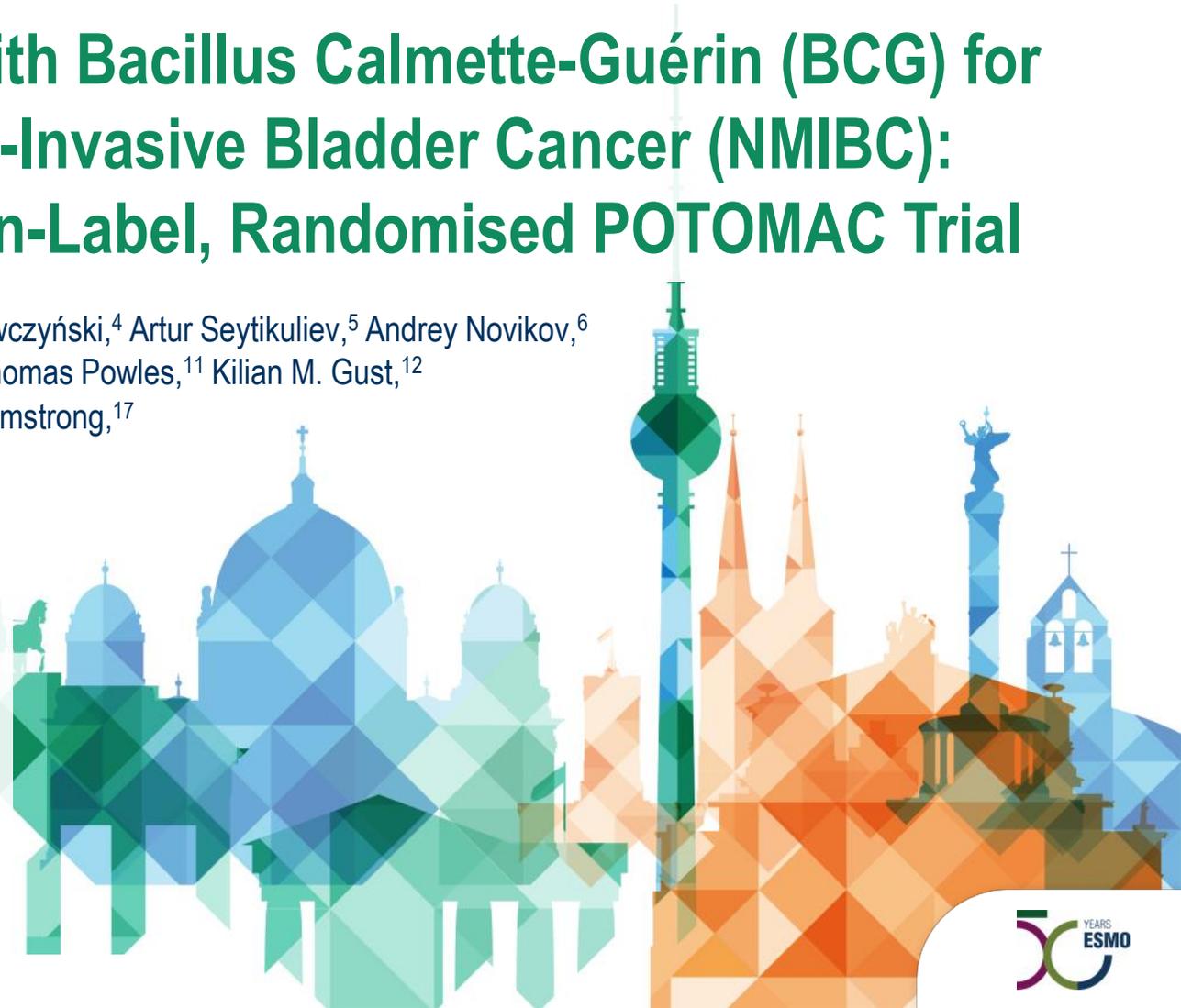
- Sasanlimab combined with BCG induction and maintenance may become an option for high-risk BCG-naïve NMIBC
 - Sasanlimab is not currently FDA approved
- Is the side effect profile worth the benefit?
 - How to balance EFS (positive), OS (immature) and Toxicity (real)?
- Who will be giving this therapy? Urologists? Medical Oncologists?
- What treatment(s) will we have at recurrence? Will other immunotherapies be effective?



Durvalumab (D) in Combination With Bacillus Calmette-Guérin (BCG) for BCG-Naïve, High-Risk Non-Muscle-Invasive Bladder Cancer (NMIBC): Final Analysis of the Phase 3, Open-Label, Randomised POTOMAC Trial

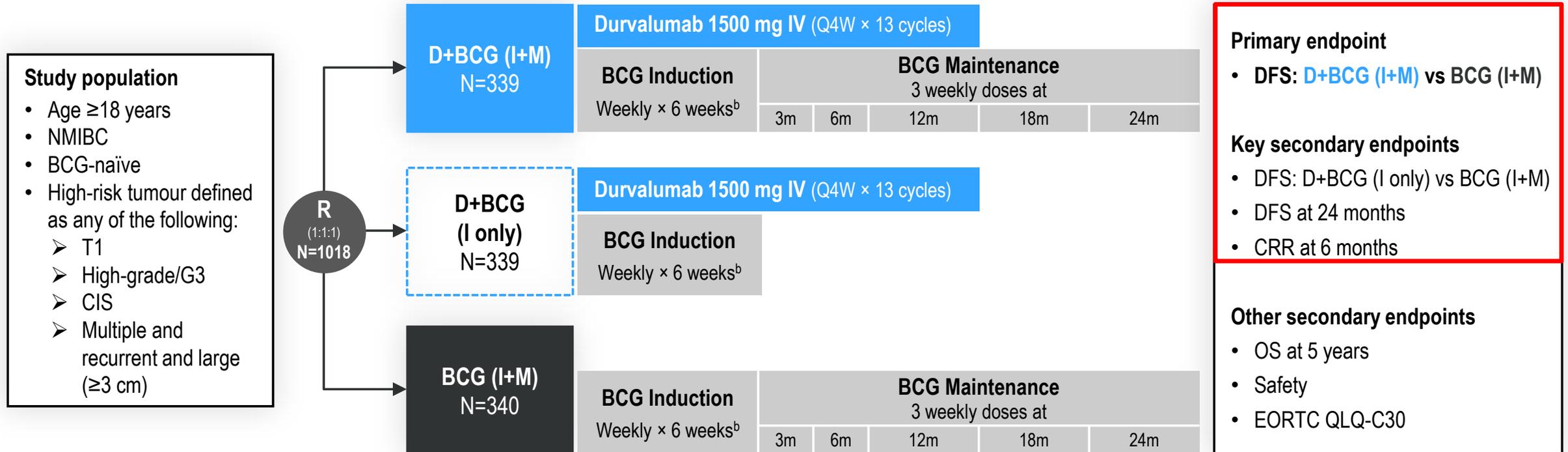
Maria De Santis,¹ Joan Palou Redorta,² Hiroyuki Nishiyama,³ Michał Krawczyński,⁴ Artur Seytikuliev,⁵ Andrey Novikov,⁶ Félix Guerrero-Ramos,⁷ Minoru Kato,⁸ Lieven Goeman,⁹ Eva Hellmis,¹⁰ Thomas Powles,¹¹ Kilian M. Gust,¹² Paul Vasey,¹³ Pierre Bigot,¹⁴ Yves Fradet,¹⁵ Jarmo C. B. Hunting,¹⁶ Jon Armstrong,¹⁷ Aleksandra Dąbrowska,¹⁸ Stephan Hois,¹⁹ Neal D. Shore²⁰

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POTOMAC: Study Design

A randomised, open-label, Phase 3, global study



Stratification factors:

- Higher risk papillary disease (yes vs no)^a
- CIS (yes vs no)

All disease assessments were performed by the investigator. ^aDefined as T1G3/T1 high-grade or multiple and recurrent and large tumours (those with a diameter of ≥3 cm). ^bFor patients with persistent CIS disease at 3 months, a single BCG re-induction was administered weekly for 6 weeks according to local standard practice. ClinicalTrials.gov, NCT03528694; EudraCT number, 2017-002979-26. BCG, bacillus Calmette-Guérin; CIS, carcinoma in situ; CRR, complete response rate; D, durvalumab; DFS, disease-free survival; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer 30-item Core Quality of Life Questionnaire; G, grade; I, induction; IV, intravenous; m, month; M, maintenance; NMIBC, non-muscle-invasive bladder cancer; OS, overall survival; Q4W, every 4 weeks; R, randomisation.

POTOMAC: Patient Characteristics – ITT

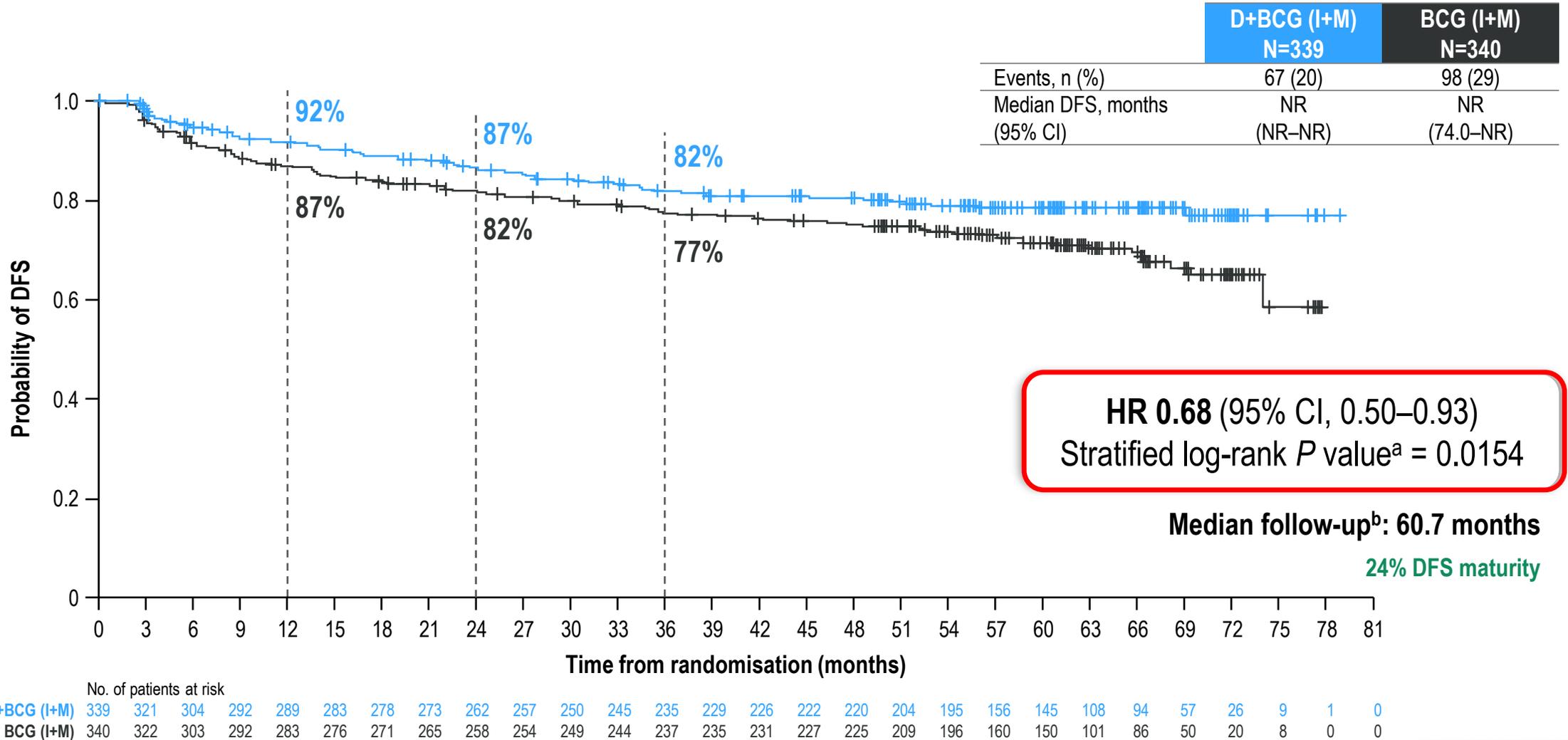
Demographic and disease characteristics were generally balanced between the study arms

Characteristics		D+BCG (I+M) N=339	D+BCG (I only) N=339	BCG (I+M) N=340
Age, median (range), years		68 (24–90)	68 (21–87)	67 (32–86)
Sex, n (%)	Male	276 (81)	272 (80)	271 (80)
Region, n (%)	Western Europe	143 (42)	126 (37)	135 (40)
	Rest of world	196 (58)	213 (63)	205 (60)
ECOG PS, n (%)	0	294 (87)	305 (90)	304 (89)
	1	45 (13)	34 (10)	36 (11)
Smoking, n (%)	Current	62 (18)	60 (18)	63 (19)
	Former	175 (52)	182 (54)	173 (51)
	Never	102 (30)	97 (29)	104 (31)
Disease stage, n (%)	T1 ^a	195 (58)	191 (56)	211 (62)
	Ta ^a	112 (33)	114 (34)	99 (29)
	CIS ^b	125 (37)	125 (37)	125 (37)
Papillary disease only, n (%)	Yes	217 (64)	222 (65)	220 (65)
Higher risk papillary disease, ^c n (%)	Yes	173 (51)	173 (51)	173 (51)
PD-L1 expression, ^d n (%)	High (≥TC/IC25%)	81 (24)	90 (27)	85 (25)
	Low/negative	235 (69)	228 (67)	232 (68)
	Missing/not evaluable	23 (7)	21 (6)	23 (7)

^aWith or without CIS as recorded by electronic case report form. ^bWith or without papillary disease as recorded per interactive voice response system. ^cDefined as T1G3/T1 high-grade or multiple and recurrent and large tumours (those with a diameter of ≥3 cm). ^dAssessed with the investigational VENTANA PD-L1 (SP263) Assay; high PD-L1 expression was defined as any of the following: ≥25% of TC exhibit membrane staining; or ICP >1% and IC+ ≥25%; or ICP=1% and IC+=100%. Data cutoff 03 April 2025. BCG, bacillus Calmette-Guérin; CIS, carcinoma in situ; D, durvalumab; ECOG PS, Eastern Cooperative Oncology Group performance status; G, grade; I, induction; IC, immune cells; IC+, IC with staining; ICP, IC present; ITT, intent-to-treat population; M, maintenance; PD-L1, programmed cell death ligand-1; TC, tumour cells.

POTOMAC: Disease-Free Survival for D+BCG (I+M) vs BCG (I+M) – ITT

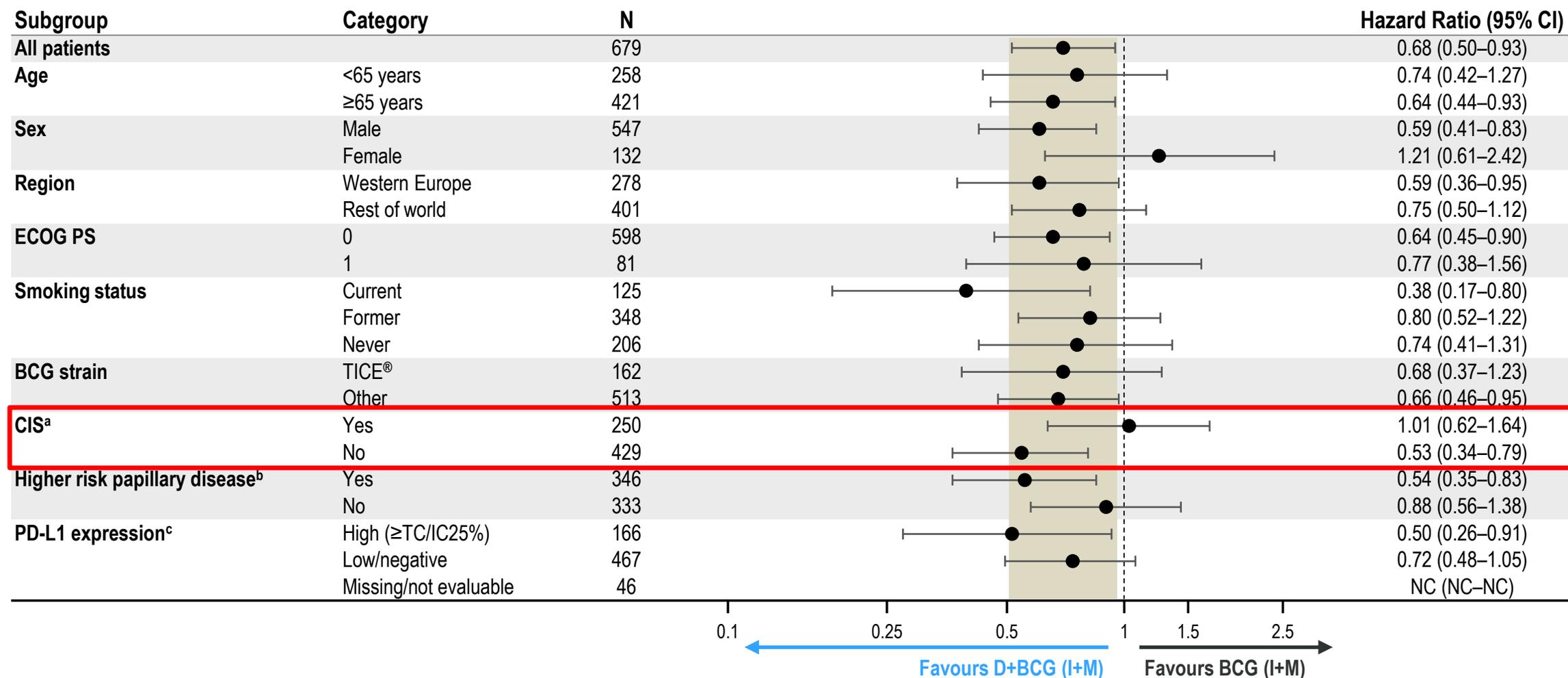
POTOMAC met its primary endpoint with early and sustained DFS benefit



DFS is defined as the time to the first: 1) recurrence of high-risk disease (recurrence of high-grade Ta, T1, or CIS; presentation with MIBC and/or metastatic disease or persistent CIS at 6 months); 2) death by any cause in the absence of recurrence. ^aThe threshold to declare statistical significance was based on a generalized Haybittle-Peto spending function – with the observed number of events, the boundary for declaring statistical significance was 0.0317 for a 5% overall 2-sided alpha. ^bIn censored patients across all study arms. Data cutoff 03 April 2025. BCG, bacillus Calmette-Guérin; CI, confidence interval; CIS, carcinoma in situ; D, durvalumab; DFS, disease-free survival; HR, hazard ratio; I, induction; ITT, intent-to-treat population; M, maintenance; MIBC, muscle-invasive bladder cancer; NR, not reached.

POTOMAC: Disease-Free Survival Subgroup Analyses

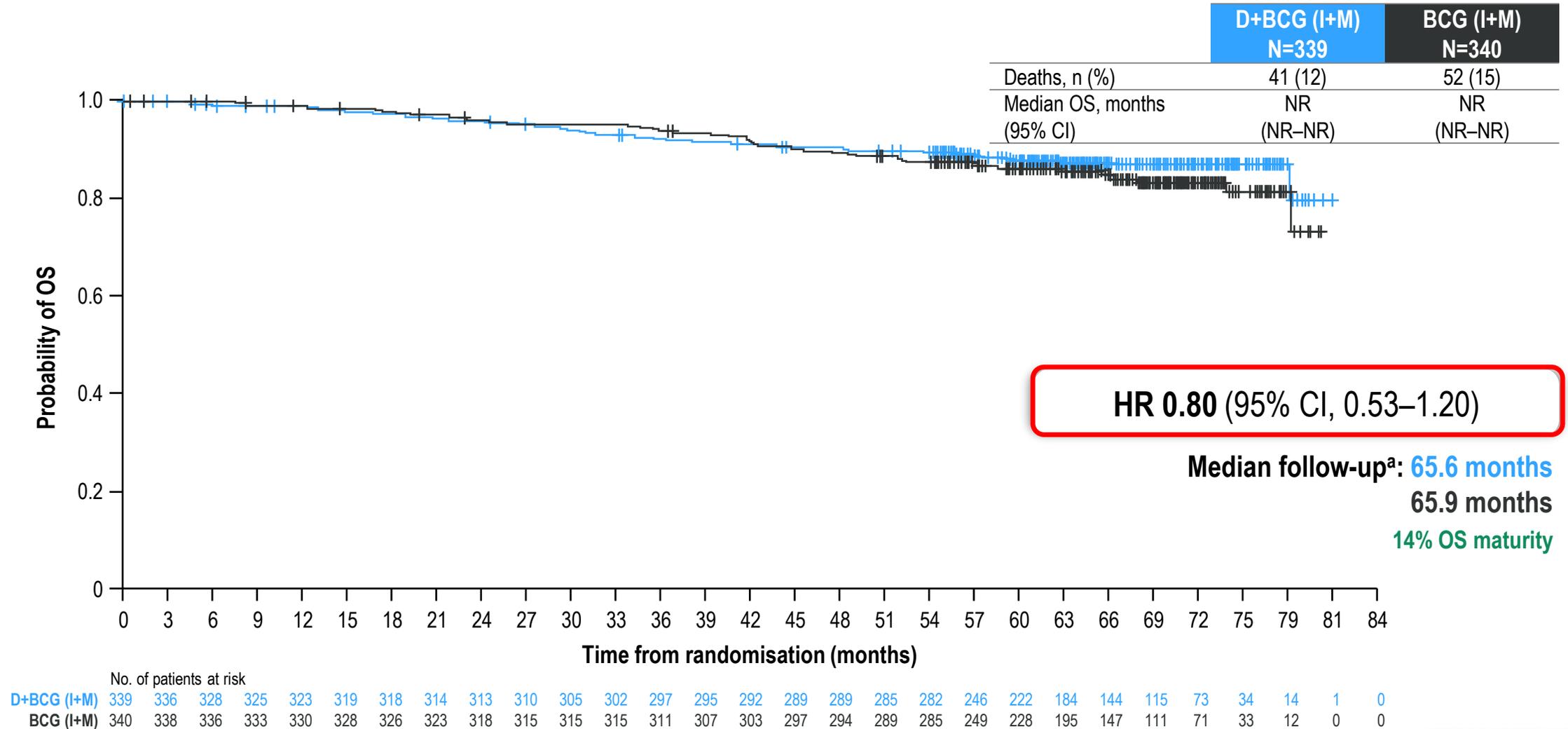
Generally consistent treatment effect across subgroups for D+BCG (I+M) vs BCG (I+M) arms



^aWith or without papillary disease as recorded per interactive voice response system. ^bDefined as T1G3/T1 high-grade or multiple and recurrent and large tumours (those with a diameter of ≥3 cm). ^cAssessed with the investigational VENTANA PD-L1 (SP263) Assay; high PD-L1 expression was defined as any of the following: ≥25% of TC exhibit membrane staining; or ICP >1% and IC+ ≥25%; or ICP=1% and IC+=100%. Data cutoff 03 April 2025. BCG, bacillus Calmette-Guérin; CI, confidence interval; CIS, carcinoma in situ; D, durvalumab; ECOG PS, Eastern Cooperative Oncology Group performance status; G, grade; I, induction; IC, immune cells; IC+, IC with staining; ICP, IC present; ITT, intent-to-treat population; M, maintenance; NC, not calculated; PD-L1, programmed cell death ligand-1; TC, tumour cells.

POTOMAC: Overall Survival – ITT

Descriptive analysis showed no detriment to OS with the addition of durvalumab to BCG (I+M) therapy

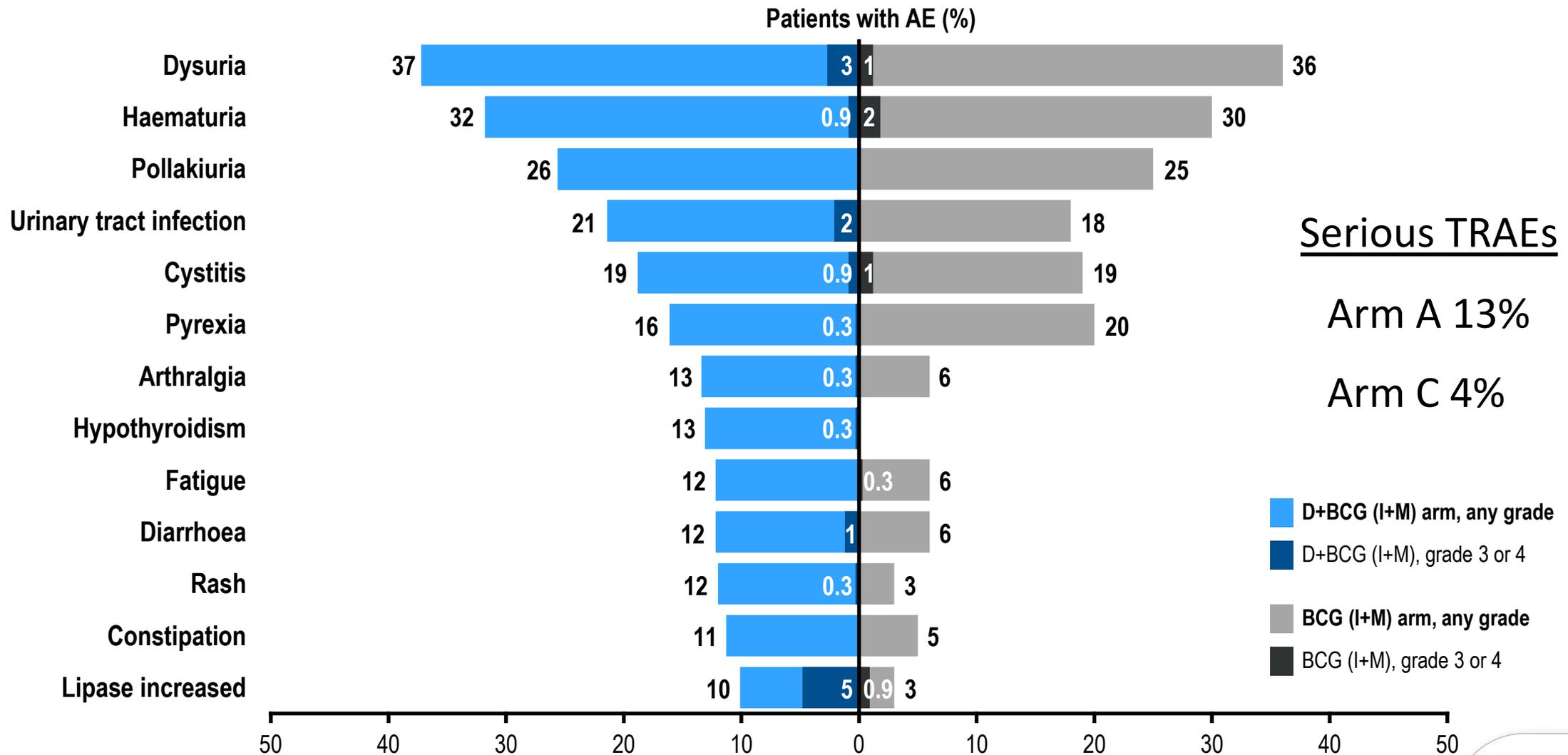


OS is the time from randomisation until death due to any cause regardless of whether the patient withdraws from randomised therapy or receives another anti-cancer therapy.

^aIn censored patients. Data cutoff 03 April 2025. BCG, bacillus Calmette-Guérin; CI, confidence interval; D, durvalumab; HR, hazard ratio; I, induction; ITT, intent-to-treat population; M, maintenance; NR, not reached; OS, overall survival.

POTOMAC: Most Frequently Reported AEs – Safety Population

Overall safety profile was consistent with those of the individual therapies



Shows all-causality AEs reported for ≥10% of patients in the safety population for either arm. Data cutoff 03 April 2025. AE, adverse event; BCG, bacillus Calmette-Guérin; D, durvalumab; I, induction; M, maintenance.

Impact on Practice

- Similar results to CREST
 - Met EFS primary endpoint
 - Less activity in the CIS cohort?
 - NO – the POTOMAC control arm did exceptionally well (93% CR at 6 months)
 - The BCG + PD-1 CR rate was *higher* in POTOMAC (93%) than CREST (87%)
 - OS immature at present
 - Toxicity is as expected, but real
- What is optimal duration of PD-1?
 - 1 year (POTOMAC) vs 2 years (CREST)
- Likely we will need to see OS benefit before widely available





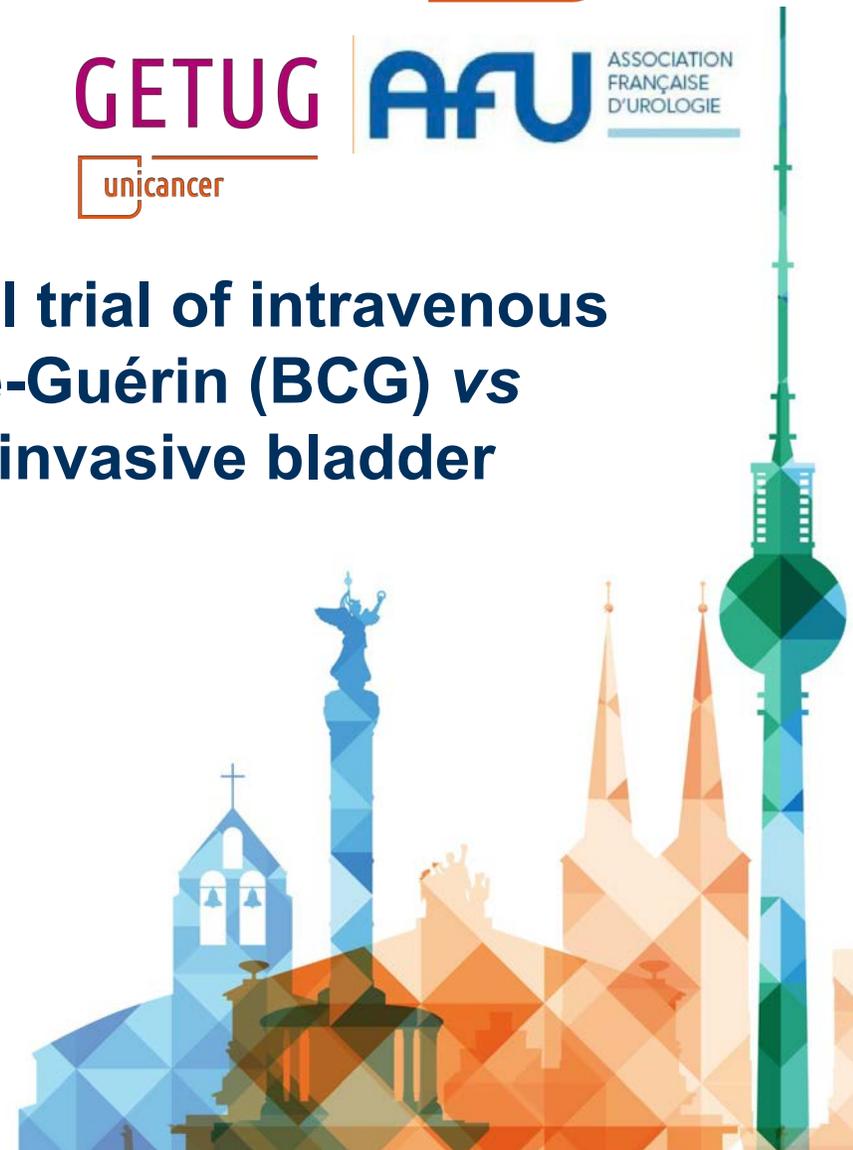
ALBAN (GETUG-AFU 37)

A phase 3, randomized, open-label, international trial of intravenous atezolizumab and intravesical Bacillus Calmette-Guérin (BCG) vs BCG alone in BCG-naïve high-risk, non-muscle invasive bladder cancer (NMIBC)

Prof Morgan Rouprêt
Sorbonne University, Urology, Pitié-Salpêtrière Hospital, Paris, France

On behalf of ALBAN investigators, LBA107

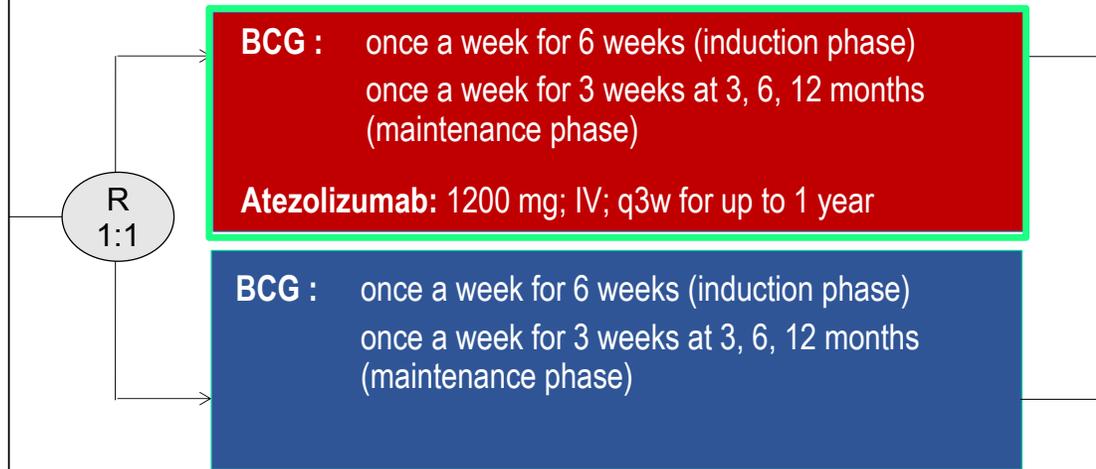
17 October 2025



ALBAN – Study design

BCG-naive patients, with high-risk NMIBC after first and second look TURBT:

- High-risk defined as the presence of any high-grade/grade 3 Ta, T1 tumors and/or CIS
- No prior BCG therapy
- Absence of metastatic disease in the pelvis, abdomen, or chest
- ECOG PS of 0-2



Primary endpoint

EFS

Key secondary endpoints

High-grade RFS

PFS

OS

DOR

Safety

QoL

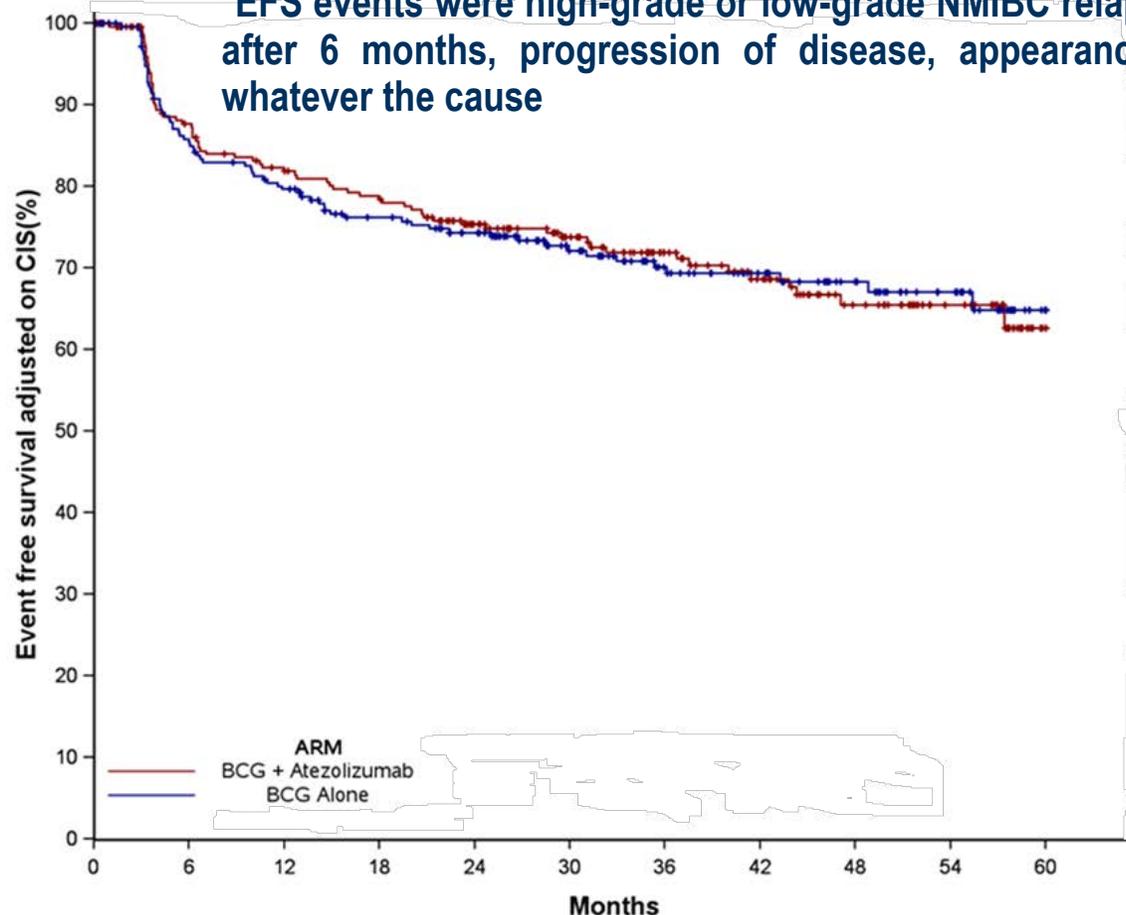
CIS: carcinoma in situ; DOR, duration of response; EFS: Event-Free Survival; OS, Overall Survival; PFS: Progression-Free survival; QoL, Quality of Life; RFS: Recurrence-Free Survival

Key statistical considerations:

- 516 patients to be included in a 1:1 ratio to BCG + atezolizumab or BCG alone
- Stratified by presence of CIS
- Follow-up period for up to 4 years after treatment completion
- EFS events were high-grade or low-grade NMIBC relapse, persistence of CIS after 6 months, progression of disease, appearance of UTUC, or death whatever the cause
- 144 EFS events required to detect an improvement of 10% in EFS ($HR \leq 0.63$), power of 80%, two-sided significance level of $\alpha=5\%$

ALBAN – Analysis of EFS* (primary endpoint, ITT population)

*EFS events were high-grade or low-grade NMIBC relapse, persistence of CIS after 6 months, progression of disease, appearance of UTUC, or death whatever the cause



	BCG + atezolizumab	BCG
EFS events, n / N	73 / 262	73 / 255
Median EFS (95% CI), mo	NE	NE
Adjusted HR (95% CI), mo	0.98 (0.71-1.36); P=0.9106	
<u>Type of events, n (%)</u>		
Local recurrence	62 (84.9%)	60 (82.2%)
Locoregional recurrence	3 (4.1%)	3 (4.1%)
Distant recurrence	1 (1.4%)	2 (2.7%)
UTUC	0 (0.0%)	2 (2.7%)
Death from any cause	7 (9.6%)	6 (8.2%)

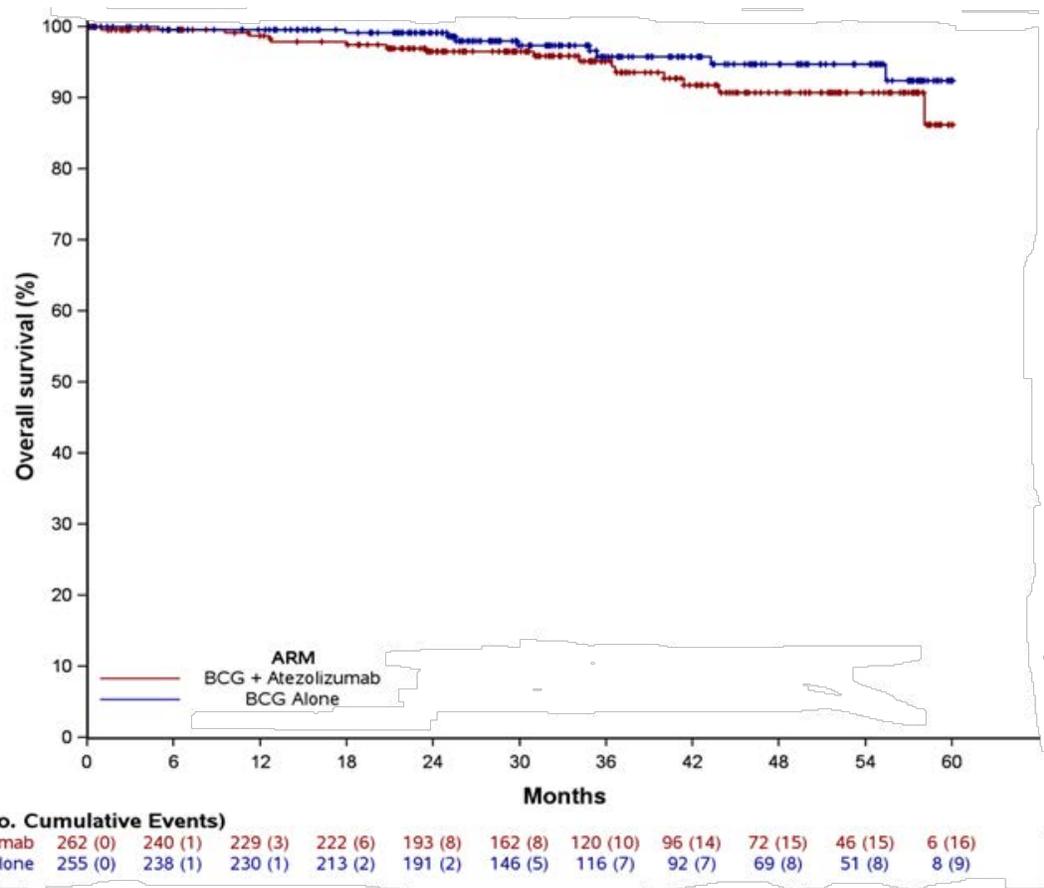
HR was adjusted on the presence of CIS at inclusion

CI, Confidence Interval; CIS, Carcinoma In Situ; EFS, Event-Free Survival; HR, Hazard Ratio; ITT, Intent To Treat; NE not evaluable

No. at Risk (No. Cumulative Events)	0	6	12	18	24	30	36	42	48	54	60
BCG + Atezolizumab	262 (0)	212 (30)	193 (44)	184 (52)	157 (59)	129 (62)	97 (65)	78 (69)	55 (72)	35 (72)	2 (73)
BCG Alone	255 (0)	208 (36)	190 (50)	169 (58)	155 (62)	116 (66)	90 (69)	73 (70)	55 (71)	38 (72)	6 (73)

Prof Morgan Rouprêt

ALBAN – Analysis of OS (secondary endpoint, ITT population)



	BCG + atezolizumab	BCG
OS events, n / N	16 / 262	9 / 255
Median OS (95% CI), mo	NE	NE
Adjusted HR (95% CI), mo	1.73 (0.76-3.92), <i>P</i> =0.1799	

HR was adjusted on the presence of CIS at inclusion

CI, confidence interval; HR, hazard ratio; NE, not evaluable; RFS: Recurrence-Free Survival

ALBAN – Safety summary (safety population)

Number of patients, n (%)	BCG + atezolizumab (N=255)	BCG (N=250)
Any AEs	252 (98.8%)	235 (94.0%)
Grade ≥3 AEs	102 (40.0%)	59 (23.6%)
Serious AEs	97 (38.0%)	53 (21.2%)
Any TRAEs	240 (94.1%)	189 (75.6%)
Grade ≥3 TRAEs	58 (22.7%)	22 (8.8%)
Serious TRAEs	60 (23.5%)	21 (8.4%)
irAEs TRAEs	140 (54.9%)	22 (8.8%)
Grade ≥3 irAEs TRAEs*	14 (5.5%)	3 (1.2%)
TRAEs leading to dose interruption	47 (18.4%)	19 (7.6%)
TRAEs leading to withdrawal	73 (28.6%)	22 (8.8%)
BCG withdrawal only	32 (12.5%)	22 (8.8%)
Atezolizumab withdrawal only	41 (16.1%)	0 (0.0%)
BCG + atezolizumab	8 (3.1%)	0 (0.0%)

AE, adverse event; irAE: immune related adverse event; TRAE, Treatment-related adverse event

* The most common grade ≥3 irAEs TRAEs were hepatitis (2.0%) and myositis and nephrotic syndrome (0.8% each), all occurring in BCG alone

Impact on Practice

- Disappointing results
 - Did not meet primary EFS nor secondary OS endpoints
- Why?
 - Shorter duration of BCG (1 year vs 2 years)
 - Smaller study than POTOMAC and CREST (n=517 vs >1000)
 - Follows on disappointing results in BCG-unresponsive pts (SWOG 1605)
 - 27% CR at 6 months vs 41% in Keynote 057



Summary

	CREST	POTOMAC	ALBAN
ICI Agent	Sasanlimab (anti-PD-1)	Durvalumab (anti-PD-L1)	Atezolizumab (anti-PD-L1)
Route of Admin	SubQ	IV	IV
BCG Maintenance	2 years	2 years	1 year
Sample Size	1,055	1,018	517
Primary Endpoint HR	0.68 (0.49-0.94)	0.68 (0.50-0.93)	0.98 (0.71-1.36)
Result	Positive	Positive	Negative
CIS Subgroup Benefit	Yes	No	No
OS benefit?	Immature	Immature	Immature

BCG-Unresponsive NMIBC
Pt refusing or ineligible for RC

CIS ± papillary disease

GEM + DOCE*

TAR-200

Nadofaragene firadenovec

NAI + BCG

Pembrolizumab†

Ta/T1 disease

GEM + DOCE*

Nadofaragene firadenovec*

Hyperthermic MMC*

Single-agent CTx*

NAI + BCG*

Adapted from: Li and International Bladder Cancer Group, Eur Urol, 2024

Many Ongoing Trials

- Treatment naïve vs BCG-resistant
- Multiple Modalities
 - » Intravesical
 - » Systemic
 - » Combinations

Drug	FDA Approval	Study	Mechanism of Action	Number of Pts in Study	Response Rate	Reported Response Duration	Cystectomy free rate
Anktiva (N-803)	Yes	Quilt 3.302	Activation and proliferation of natural killer and CD8 + T cells	CIS (n=83); nonCIS (n=77)	CIS 71%; nonCIS 48%	24 months	CIS 91%; nonCIS 95%
Pembrolizumab	Yes	KEYNOTE-057	Monoclonal antibody binds to PD-1 inhibiting interaction with PD-L1 and PD-L2	96	41%	16.2 months	Not Reported
Atezolizumab	No	SWOG S1605	PD-L1 inhibition	129	27%	6 months	Not Reported
Sasanlimab	No	CREST	Monoclonal antibody binds to PD-1 inhibiting interaction with PD-L1 and PD-L2	Preliminary results not reported	Not yet reported	Not yet reported	Not yet reported
Durvalumab	No	PATAPSCO	Monoclonal antibody binds PD-L1 inhibiting its interaction with PD-1	Preliminary results not reported	Not yet reported	Not yet reported	Not yet reported
Nivolumab	No	CheckMate 9UT	PD-1 immune checkpoint inhibitor	Preliminary results not reported	Not yet reported	Not yet reported	Not yet reported
Nadofaragene Firadenovec	Yes	INSTILADRIN	Recombinant adenovirus vector and polyamide surfactant	157	a) 53% b) 34.2%	a) 9.7 months b) 36 months	Not Reported
CG0070	No	CORE1	Modified adenovirus that induces cell lysis paired with anti PD-1 therapy	35	a) 88% b) 73%	a) 3 months b) 12 months	Not Reported
TARA-002	No	ADVANCED-1	Lyophilized mixture of low-virulence Streptococcus pyogenes cells treated with benzylpenicillin	102	Not reported	Not yet Reported	Not yet reported
Gemcitabine & Docetaxel	No	Retrospective Review	Combination intravesical therapy	276	a) 60% b) 46%	a) 12 months b) 24 months	Not Reported
Cabazitaxel, Gemcitabine, Cisplatin	No	Phase 2 trial	Combination intravesical therapy	Preliminary results not reported	Not yet reported	Not yet reported	Not yet reported
Electromotive Drug Administration	No	Prospective Trial	Intravesical chemotherapy with mild electric current to enhance penetration	26	a) 44% b) 30.4%	a) 12 months b) 18 months	Not Reported
Hyperthermic Intravesical Chemotherapy	No	Retrospective Review	Heated intravesical therapy	56	a) 53% b) 35%	a) 12 months b) 24 months	Not Reported
TAR-200	No	SUNRISE-1 and SUNRISE-2	Investigational drug delivery system; controlled, continuous dose of gemcitabine or cetrelimab	23	Not yet reported	Not yet reported	Not yet reported

Second Opinion



Elizabeth R Plimack, MD, MS



Neil Love, MD

QUESTIONS FOR THE FACULTY

What treatment options would you discuss with this 72-year-old man with an active lifestyle who wants to avoid cystectomy and has received BCG induction with maintenance, gemcitabine/docetaxel, and nadofaragene firadenovec with eventual recurrence of high-grade NMIBC?

The patient does not want to receive pembrolizumab due to concerns about adverse events and lack of long-term efficacy. How would this impact your discussion?

QUESTIONS FOR THE FACULTY

In general, how do you layer TAR-200 (gemcitabine intravesical system) into your treatment recommendations for patients with NMIBC? How do you describe the unique mechanism of action of TAR-200 to your patients?

What treatment would you ultimately recommend for this patient?

Second Opinion



Thomas Powles, MBBS, MRCP, MD



Neil Love, MD

QUESTIONS FOR THE FACULTY

Regulatory and reimbursement issues aside, what would be your preferred treatment for this man in his late 70s with newly diagnosed NMIBC? Based on the results of the Phase III CREST and POTOMAC trials, would you consider BCG in combination with an anti-PD-1/PD-L1 antibody?

From your perspective, why were the results of CREST and POTOMAC, evaluating sasanlimab and durvalumab, respectively, in combination with BCG, positive, while the results of the ALBAN study investigating atezolizumab with BCG were not?

QUESTIONS FOR THE FACULTY

Given the positive outcomes from CREST and POTOMAC, do you anticipate that anti-PD-1/PD-L1 antibodies will soon be used routinely for patients who have not experienced failure of BCG?

In your opinion, which patients represent ideal candidates for anti-PD-1/PD-L1 antibodies in combination with BCG? If this strategy were to reach the clinic, would you prefer it for all patients with high-risk disease, or are there some for whom you would still opt for BCG alone or some other strategy?

QUESTIONS FOR THE FACULTY

**Are you at all concerned that as we continue to move anti-PD-1/
PD-L1 antibodies earlier in the treatment course, we may be
depriving ourselves of effective therapies should disease
recurrence occur?**

Agenda

Module 1: Optimal Use of Anti-PD-1/PD-L1 Antibodies in Non-Muscle-Invasive Bladder Cancer — Dr Friedlander

Module 2: Evolving Management of Muscle-Invasive Bladder Cancer — Dr Gupta

Module 3: Current and Future Role of Novel Intravesical Therapies in Nonmetastatic Urothelial Bladder Cancer (UBC) — Dr Necchi

Module 4: Emerging Utility of Circulating Tumor DNA Evaluation in Nonmetastatic UBC — Dr Galsky



Evolving Management of Muscle-Invasive Bladder Cancer (MIBC)

Shilpa Gupta, MD

Cleveland Clinic Taussig Cancer Institute

February 26, 2026

E-mail: Guptas5@ccf.org

X: [@shilpaonc](#)

Completed Adjuvant IO trials in high-risk MIUC

High risk MIUC: if received NAC- ypT2-T4a/ypN+ or pT3-T4a/pN+ if not eligible for or declined adjuvant cisplatin-based chemotherapy

IMvigor010

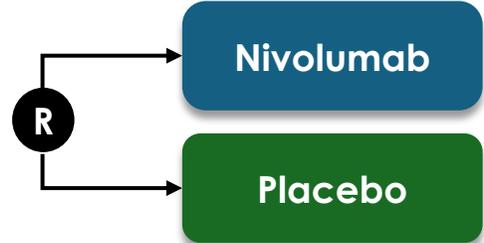


Primary endpoint:
DFS

Key secondary endpoints:
OS, DSS, distant metastasis-free survival, NUTRFS

Did not meet primary endpoint

CheckMate -274



Primary endpoint:
DFS

Key secondary endpoints:
OS, NUTRFS, DSS

**DFS Improvement
OS trending **

AMBASSADOR



Coprimary endpoints:
DFS and OS

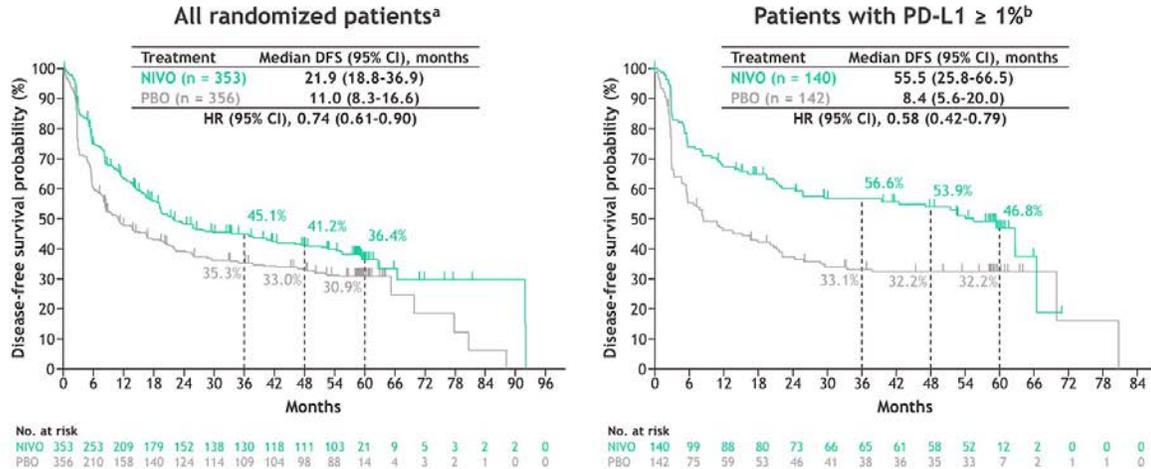
Key secondary endpoints:
OS and DFS in PD-L1-positive and PD-L1-negative patients

**DFS Improvement
No OS improvement**

CheckMate-274 DFS 5-year follow-up

DFS: all randomized patients and patients with PD-L1 ≥ 1%

CheckMate 274

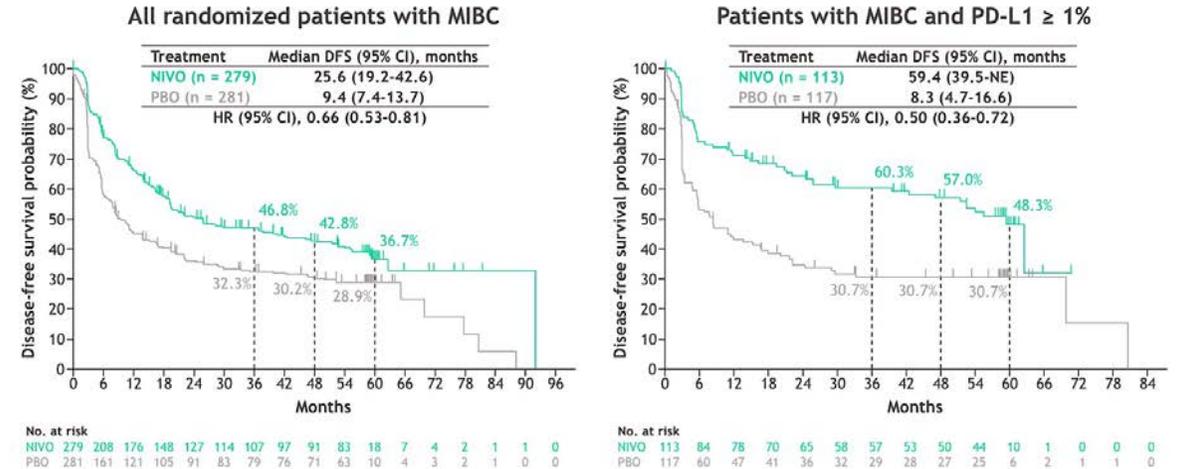


- At 5 years of follow up, long-term benefits were sustained with NIVO vs PBO in all randomized patients and patients with tumor PD-L1 expression ≥ 1%

^aMinimum follow-up, 59.6 months; median follow-up, 43.4 months. ^bMinimum follow-up, 60.0 months; median follow-up, 52.9 months. Minimum follow-up is defined as the time from last patient randomized to clinical cutoff date. Median follow-up is defined as the time from randomization to death or last known alive date (for patients who are alive).

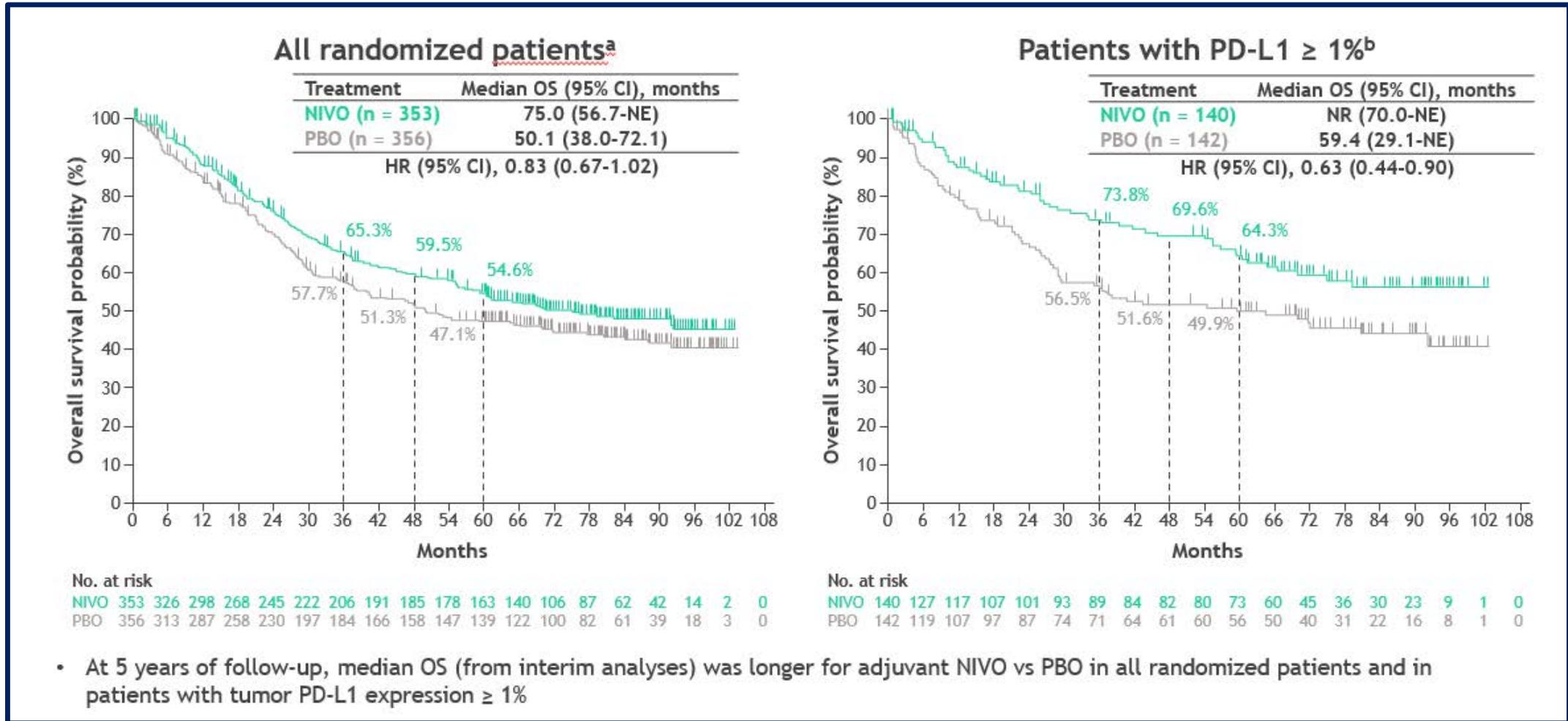
DFS in patients with MIBC: all randomized and PD-L1 ≥ 1%

CheckMate 274



- Median DFS in randomized patients with MIBC and patients with MIBC and tumor PD-L1 expression ≥ 1% was longer for NIVO-treated patients vs PBO-treated patients

CheckMate-274 5 year OS trend with Nivo



Phase 3 Peri-operative IO-based Trials in MIBC

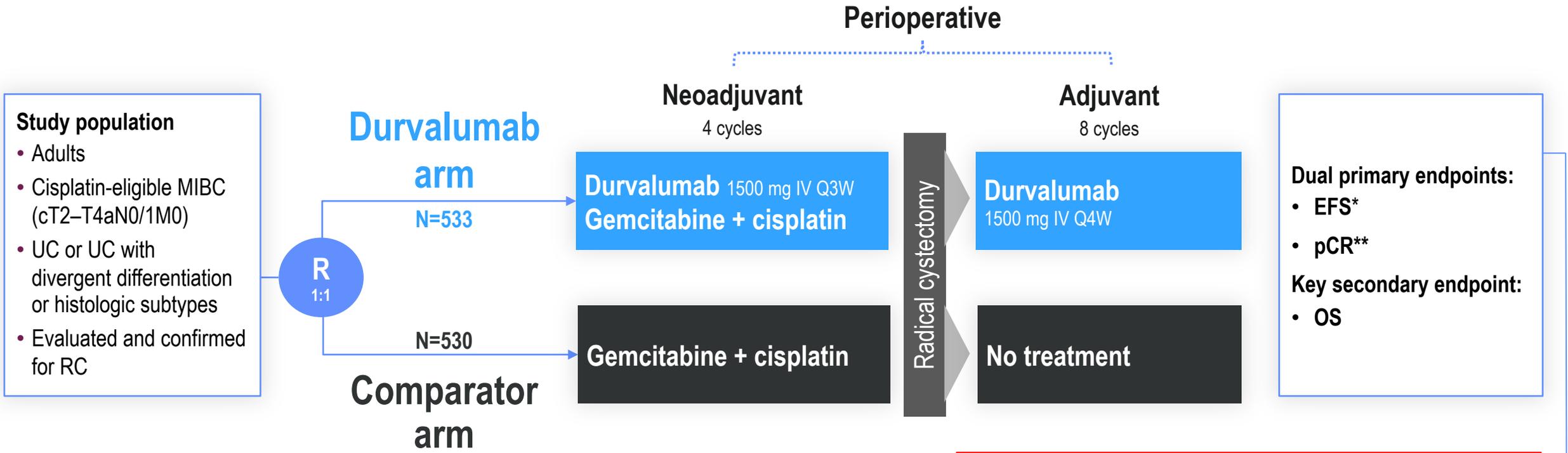
Clinical Trial	N	Treatment Arms	Eligibility
KEYNOTE-866	870	Pembro + GC vs GC	T2-4aN0M0
KEYNOTE-B15/EV-304	784	Pembro +EV vs GC	T2-T4aN0M0 T1-T4aN1M0
NIAGARA	1050	Durva+ GC vs GC	T2-4aN1M0
ENERGIZE	1200	Nivo + GC vs GC GC+ Nivo + Linrodostat	T2-4aN0M0
KEYNOTE-905/ EV-303	836	RC vs Pembro+EV vs Pembro	T2-4aN0M0
VOLGA	830	RC vs Druva/Tremi+EV vs Durva+EV	T2-4aN0M0

CISPLATIN ELIGIBLE

CISPLATIN-INELIGIBLE

Primary Endpoints pCR, EFS
Adjuvant IO in experimental arm
NO adjuvant IO in control arm

NIAGARA: Study Design



Study population

- Adults
- Cisplatin-eligible MIBC (cT2–T4aN0/1M0)
- UC or UC with divergent differentiation or histologic subtypes
- Evaluated and confirmed for RC

R
1:1

Durvalumab arm

N=533

Neoadjuvant
4 cycles
Durvalumab 1500 mg IV Q3W
Gemcitabine + cisplatin

Comparator arm

N=530

Gemcitabine + cisplatin

Radical cystectomy

Adjuvant

8 cycles

Durvalumab 1500 mg IV Q4W

No treatment

Dual primary endpoints:

- EFS*
 - pCR**
- Key secondary endpoint:
- OS

Stratification factors

- Clinical tumour stage (T2N0 vs >T2N0)
- Renal function (CrCl ≥ 60 mL/min vs ≥ 40 – < 60 mL/min)
- PD-L1 status (high vs low/negative expression)

Gemcitabine/cisplatin dosing

CrCl ≥ 60 mL/min: Cisplatin 70 mg/m² + gemcitabine 1000 mg/m² Day 1, then gemcitabine 1000 mg/m² Day 8, Q3W for 4 cycles

CrCl ≥ 40 – < 60 mL/min: Split-dose cisplatin 35 mg/m² + gemcitabine 1000 mg/m² Days 1 and 8, Q3W for 4 cycles

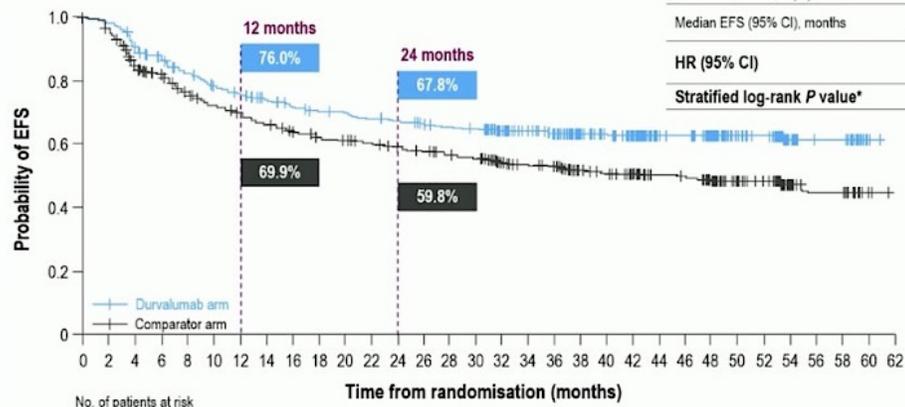
EFS defined as:

- Progressive disease that precluded RC
- Recurrence after RC
- Date of expected surgery in patients who did not undergo RC
- Death from any cause

Other endpoints (not reported here):
DFS, DSS, MFS, HRQoL, 5-year OS

NIAGARA: Event-free Survival by Blinded Independent Central Review (ITT)

BARCELONA 2024 ESMO congress



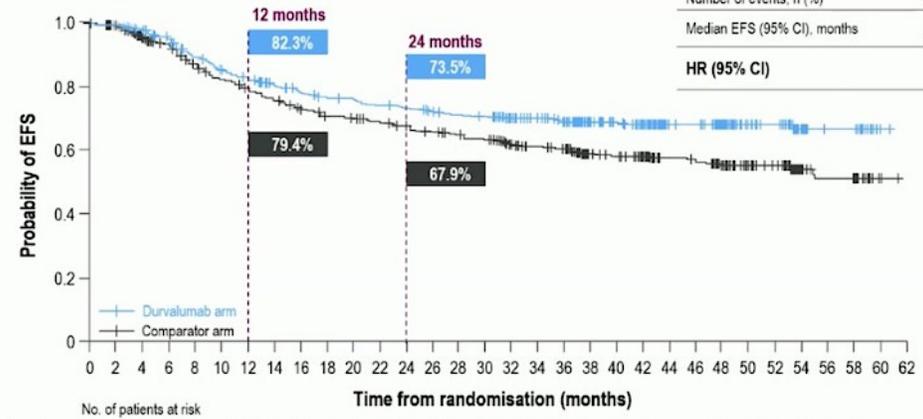
	Durvalumab arm N=533	Comparator arm N=530
Number of events, n (%)	187 (35.1)	246 (46.4)
Median EFS (95% CI), months	NR (NR-NR)	46.1 (32.2-NR)
HR (95% CI)	0.68 (0.56-0.82)	
Stratified log-rank P value*	<0.0001	

Median follow-up in censored patients: 42.3 months (range, 0.03-61.3)

NIAGARA: Event-free Survival Sensitivity Analysis

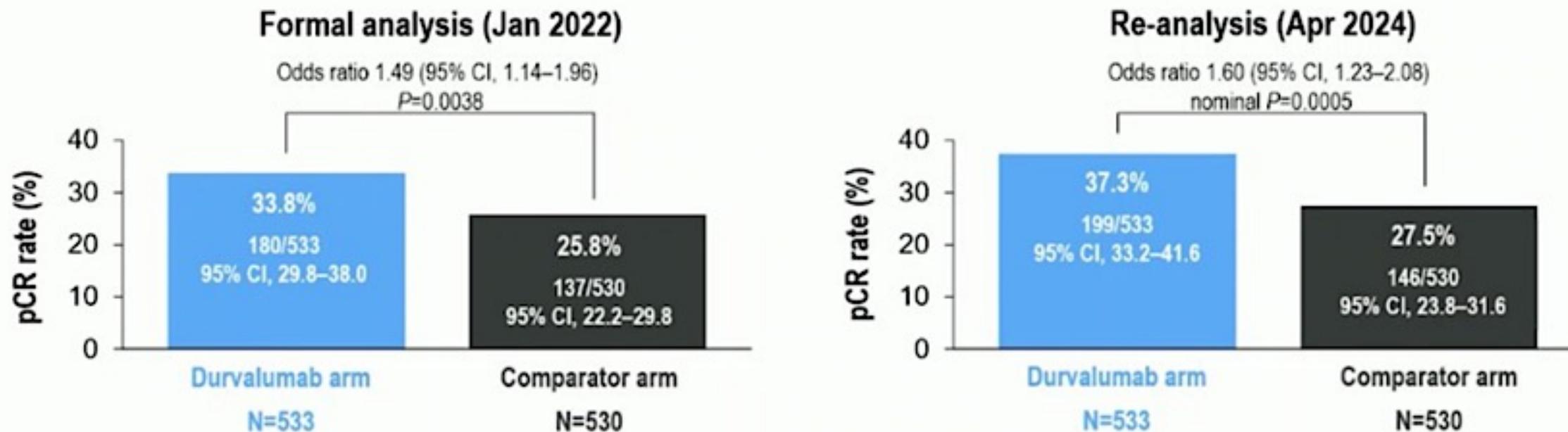
BARCELONA 2024 ESMO congress

Patients who did not undergo RC were censored



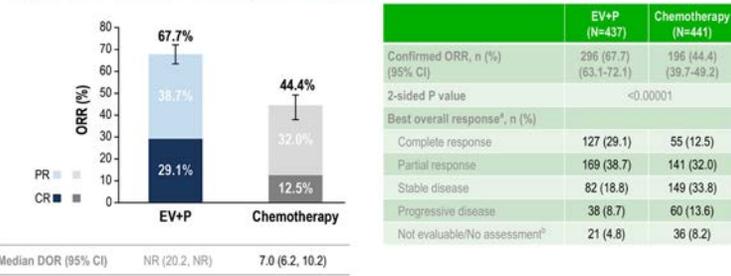
	Durvalumab arm N=533	Comparator arm N=530
Number of events, n (%)	147 (27.6)	186 (35.1)
Median EFS (95% CI), months	NR (NR-NR)	NR (53.2-NR)
HR (95% CI)	0.69 (0.56-0.86)	

NIAGARA: Pathologic Complete Response (ITT)



Confirmed Overall Response per BICR

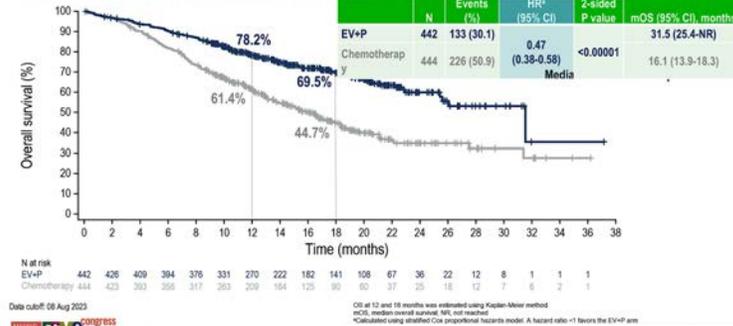
Significant improvement in objective response rate was observed with EV+P



Data cutoff: 08 Aug 2023
 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 good baseline assessment and the best overall response was determined to be not evaluable per RECIST v1.1 or no response assessment post baseline

Overall Survival

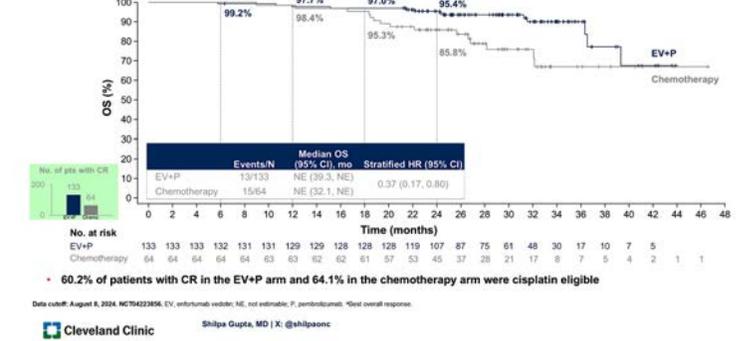
Risk of death was reduced by 53% in patients who received EV+P



Data cutoff: 08 Aug 2023
 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

OS among patients with CR

95.4% of patients with CR in the EV+P arm were alive at 2 years

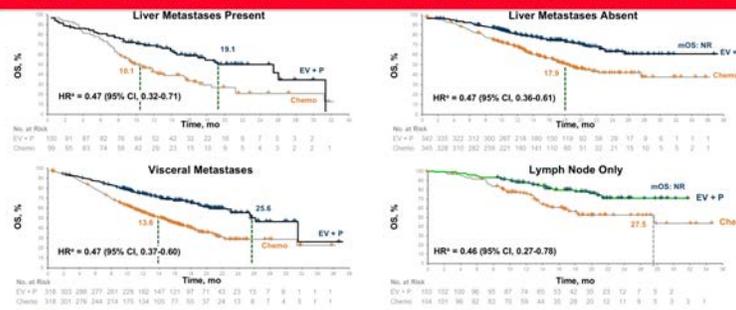


Data cutoff: August 8, 2024. NE, not estimable; P, pembrolizumab; ^aBest overall response
 Shilpa Gupta, MD | X: @shilpaonc

EV-Pembro has revolutionized the 1L treatment in mUC

EV-302 OS Subgroup Analysis: Liver Metastases and Metastatic Disease Site

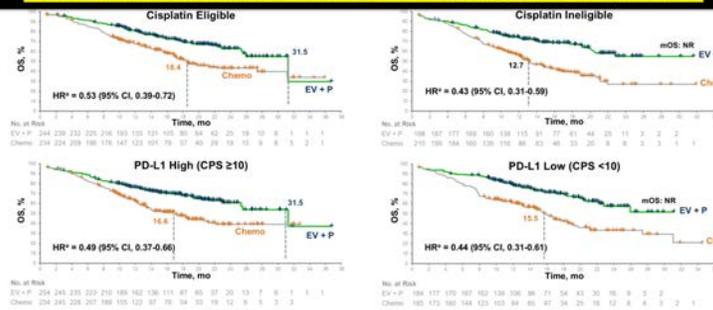
OS benefit was consistent with the overall population, regardless of the presence or absence of liver or visceral metastases



Data cutoff: August 8, 2023
^aCalculated using stratified Cox proportional hazards model; a hazard ratio <1 favors the EV+P arm

EV-302 OS Subgroup Analysis: Cisplatin Eligibility and PD-L1 Expression

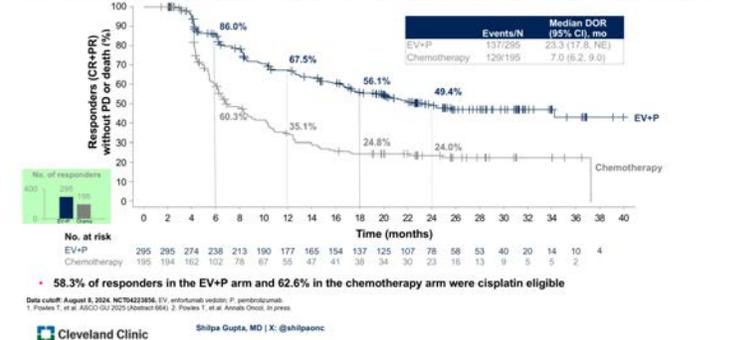
OS benefit was consistent with the overall population, regardless of cisplatin eligibility or PD-L1 expression status



Data cutoff: August 8, 2023
^aCalculated using stratified Cox proportional hazards model; a hazard ratio <1 favors the EV+P arm
 1. van der Heijden MS et al. ASCO GU 2024. LBA530.

Duration of response by BICR: All responders (CR+PR)^{1,2}

Among responders, the probability of maintained response at 24 months was ~50% with EV+P



Data cutoff: August 8, 2024. NE, not estimable; P, pembrolizumab
 1. Powles T et al. ASCO GU 2025 (Abstract 864). 2. Powles T et al. Ann Oncol. In press
 Shilpa Gupta, MD | X: @shilpaonc

EV-pembro sets off a domino effect in MIBC

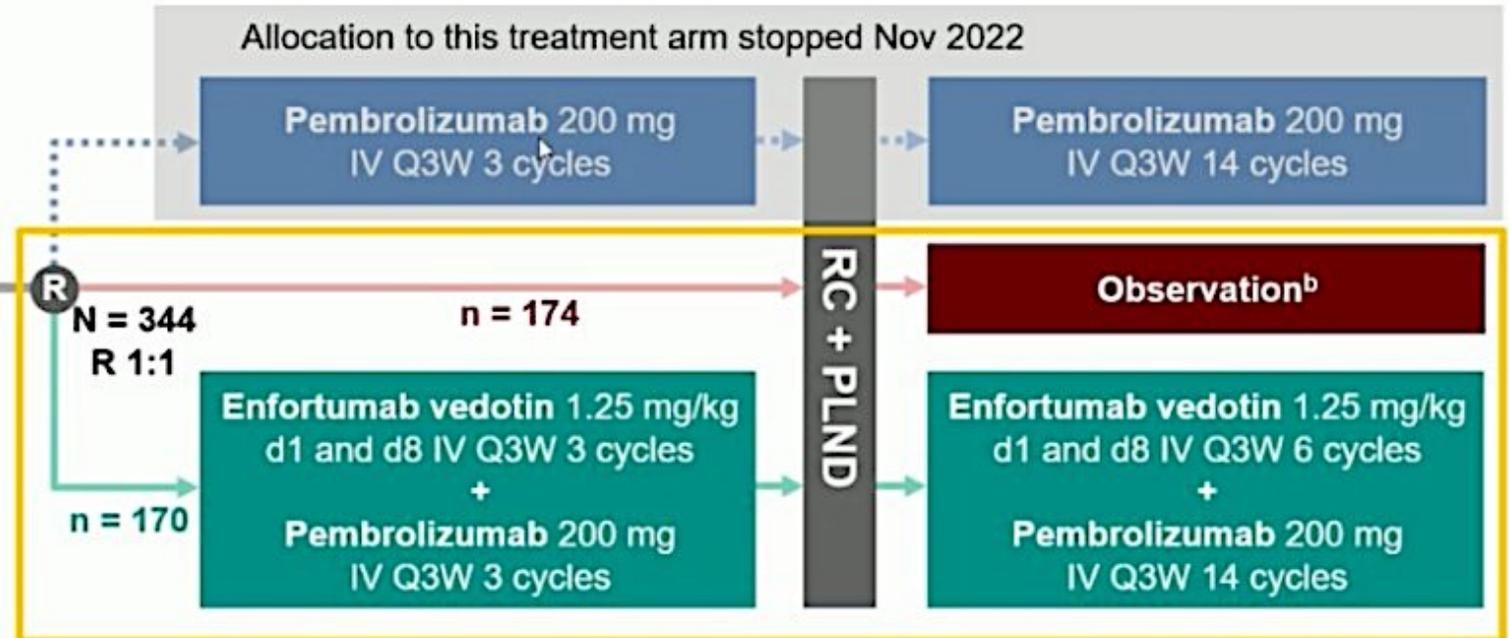
KEYNOTE-905/EV-303 Study (NCT03924895)

Key Eligibility Criteria

- Adults with MIBC
- Clinical stage T2-T4aN0M0 or T1-T4aN1M0 by central assessment
- ≥50% Urothelial histology
- Cisplatin-ineligible per Galsky criteria^a or cisplatin-declining
- ECOG PS 0-2

Stratification Factors

- Cisplatin ineligibility (ineligible vs. eligible but declining)
- Clinical stage (T2N0 vs. T3/T4aN0 vs. T1-4aN1)
- Region (US vs. EU vs. Most of World)



Primary endpoint: Event-free survival (EFS) by BICR

Key secondary endpoints: OS and pathological complete response (pCR; pT0N0, i.e. absence of viable tumor in examined tissue from surgery) by central pathologist review

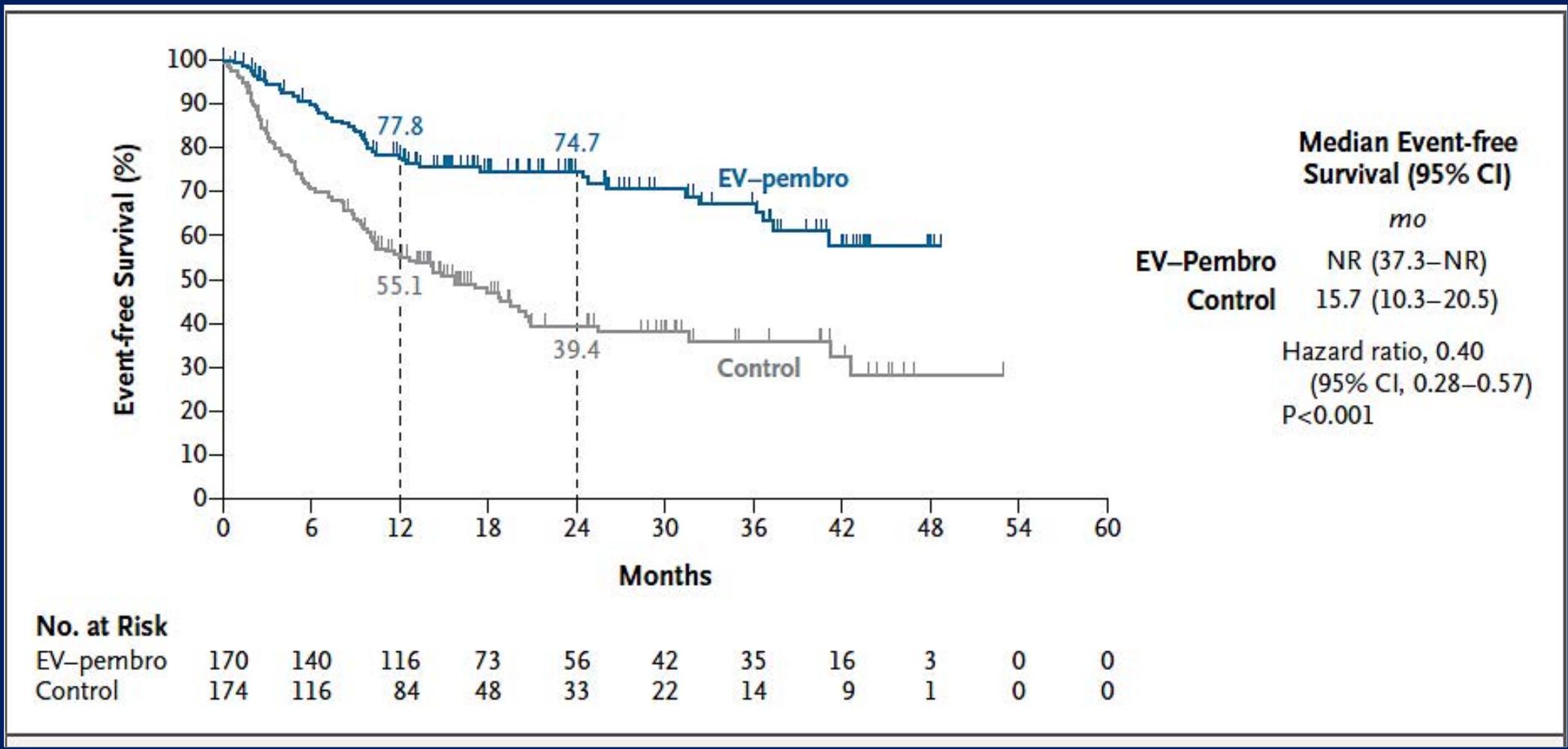
Other secondary endpoints include: Safety

Exploratory endpoints include: EFS by pCR status

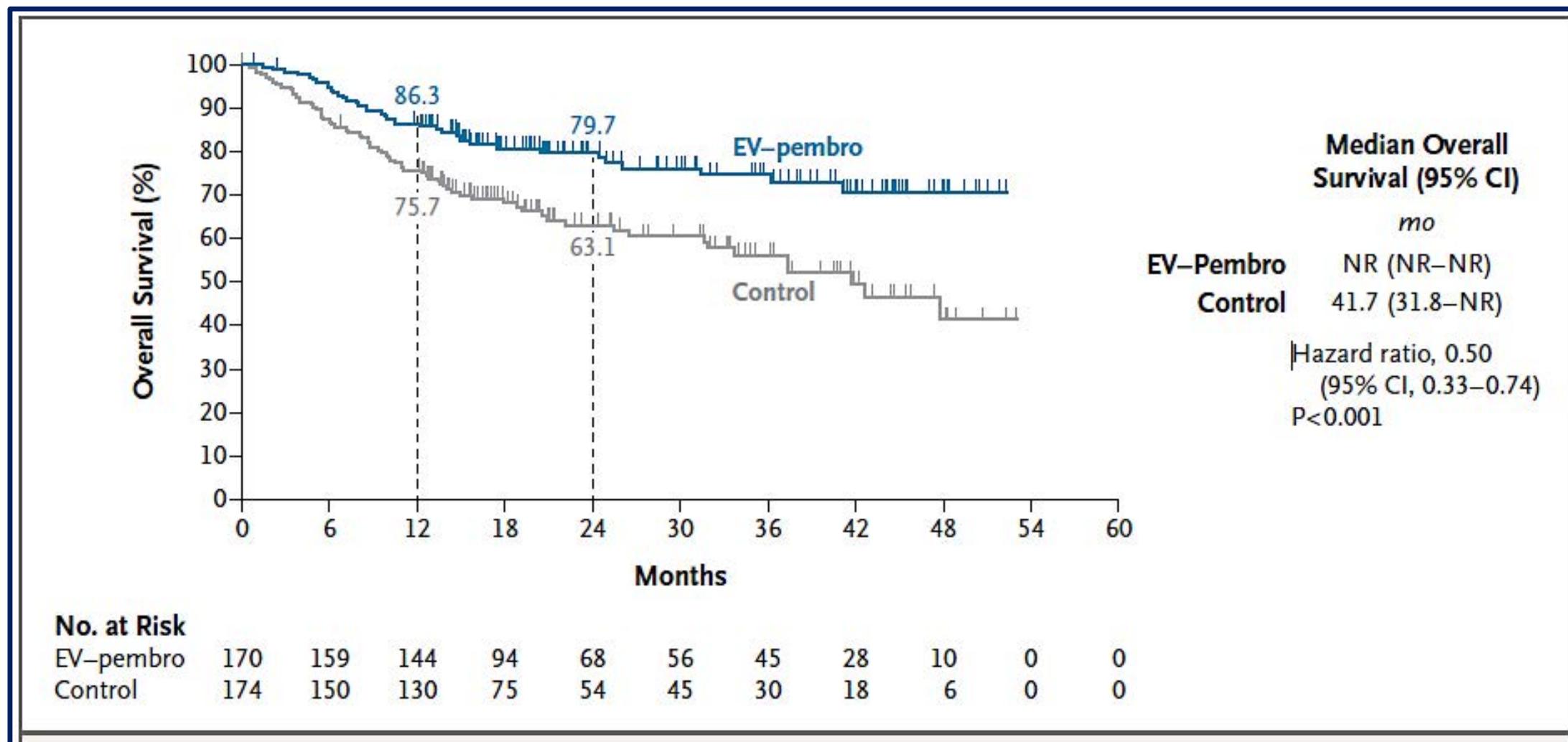
Characteristic	Enfortumab Vedotin– Pembrolizumab (N=170)	Control (N=174)
Age		
Median (range) — yr	74.0 (47–87)	72.5 (46–87)
Distribution — no. (%)		
<65 yr	29 (17.1)	29 (16.7)
65 to <75 yr	63 (37.1)	77 (44.3)
≥75 yr	78 (45.9)	68 (39.1)
Male sex — no. (%)		
	137 (80.6)	131 (75.3)
ECOG performance-status score — no. (%) †		
0	102 (60.0)	95 (54.6)
1	47 (27.6)	53 (30.5)
2	21 (12.4)	26 (14.9)
Cisplatin eligibility status — no. (%)		
Ineligible	142 (83.5)	139 (79.9)
Eligible but declined	28 (16.5)	35 (20.1)
Tumor stage — no. (%) ¶		
T2N0	30 (17.6)	32 (18.4)
T3N0 or T4aN0	133 (78.2)	132 (75.9)
T1 to T4a with N1	7 (4.1)	10 (5.7)
Creatinine clearance — no. (%)		
<30 ml/min	0	1 (0.6)
30 to <60 ml/min	102 (60.0)	101 (58.0)
≥60 ml/min	68 (40.0)	72 (41.4)

Older and more frail patient population

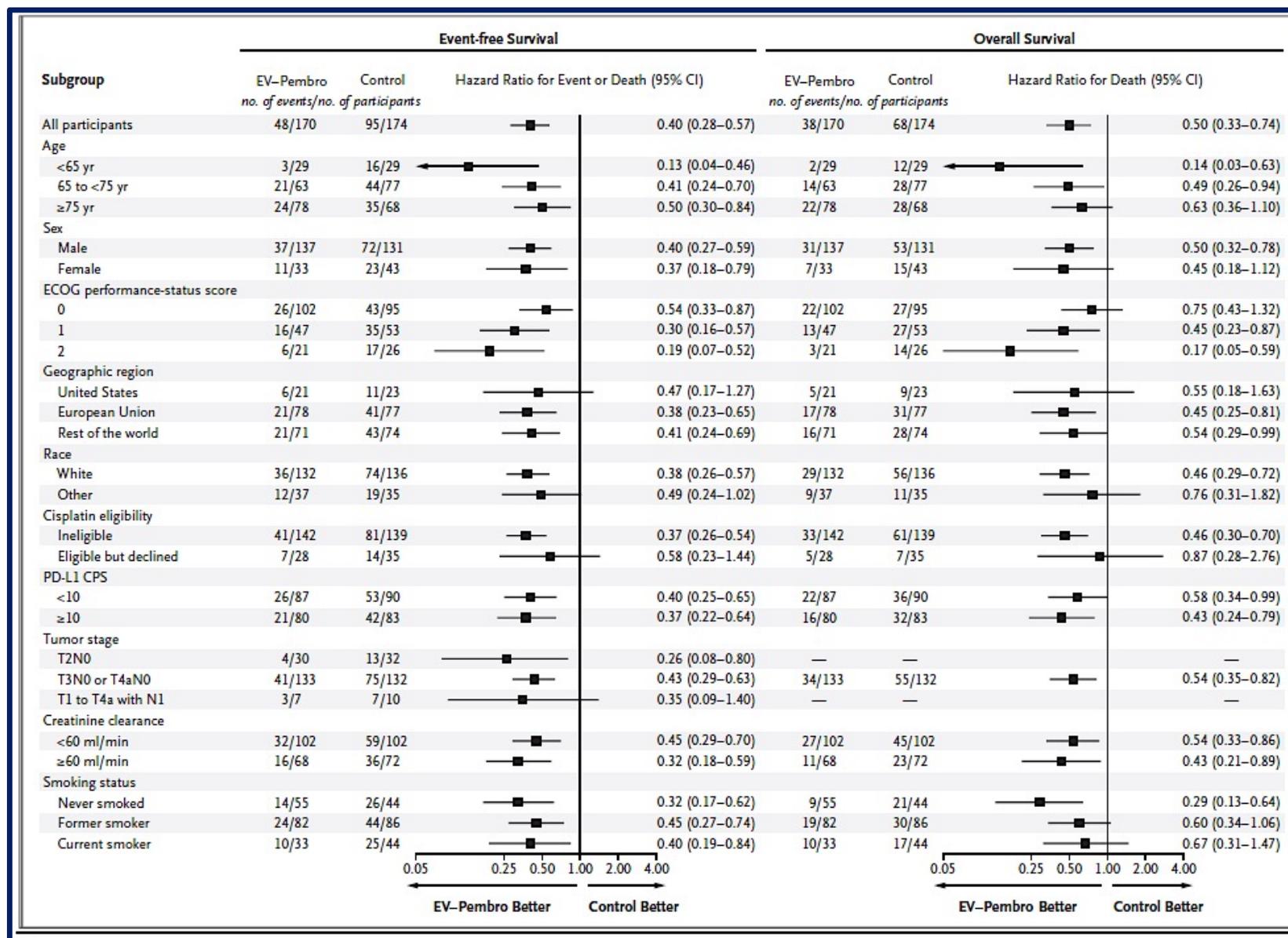
KEYNOTE-905/EV-303 EFS



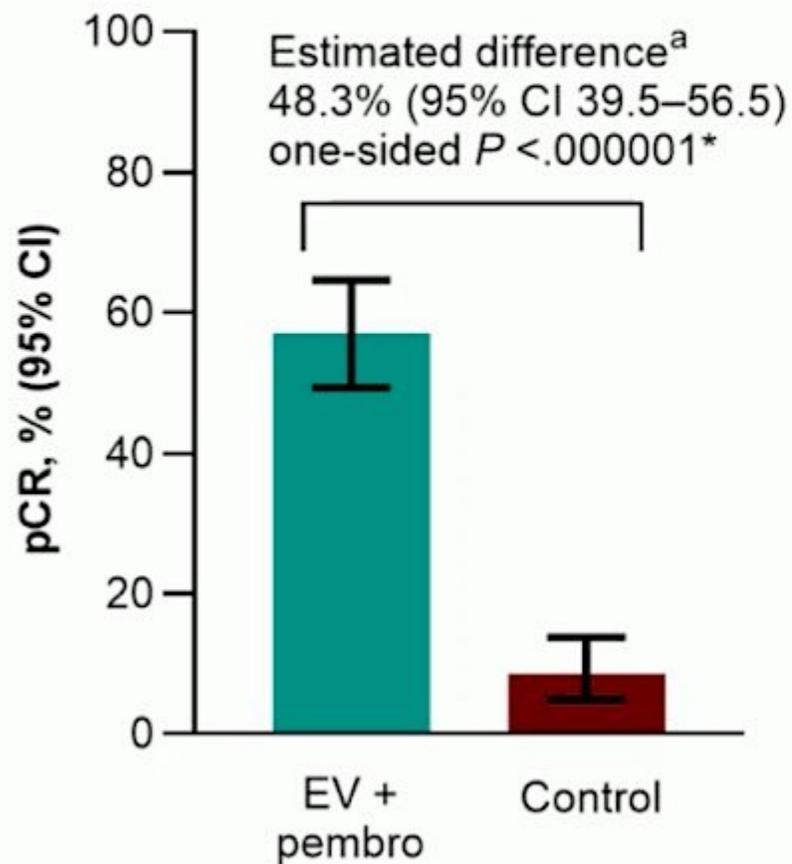
KEYNOTE-905/EV-303 OS



Benefit with EV-Pembro across subgroups



Key Secondary Endpoint: pCR by Central Pathology Review ITT Population



	EV + pembro (N = 170)	Control (N = 174)
pCR, n	97	15
pCR rate, % (95% CI)	57.1 (49.3–64.6)	8.6 (4.9–13.8)

- **pCR:** absence of viable tumor (pT0N0) in examined tissue from RC + PLND
- Pts who did not undergo surgery, including those with clinical complete response after neoadjuvant therapy, were considered non-responders

Safety

Adverse Event	Enfortumab Vedotin– Pembrolizumab (N=167)	Control (N=159)
	<i>no. of participants with one or more events (%)</i>	
Adverse events of any cause		
Any grade	167 (100)	103 (64.8)
Grade ≥3	119 (71.3)	73 (45.9)
Led to enfortumab vedotin dose reduction	28 (16.8)	NA
Led to discontinuation of any trial drug	81 (48.5)	NA
Led to death	13 (7.8)	9 (5.7)
Serious†	97 (58.1)	65 (40.9)
Drug-related adverse events as determined by the investigator		
Any grade	154 (92.2)	NA
Grade ≥3	76 (45.5)	NA
Led to enfortumab vedotin dose reduction	26 (15.6)	NA
Led to discontinuation of any trial drug	62 (37.1)	NA
Led to death	2 (1.2)	NA
Serious†	33 (19.8)	NA
Adverse events of special interest		
Any grade for pembrolizumab‡	72 (43.1)	NA
Grade ≥3 for pembrolizumab‡	30 (18.0)	NA
Drug-related any grade for enfortumab vedotin	123 (73.7)	NA
Drug-related grade ≥3 for enfortumab vedotin	27 (16.2)	NA

**67% patients
in EV-pembro
arm got
adjuvant
therapy**

Press Release

EV 304: EV-P improves EFS and OS compared to Gem-Cis Data to be presented tomorrow (Matt Galsky)

Enfortumab Vedotin-ejfv Plus
Pembrolizumab Significantly
Improves Survival for Patients with
Muscle-Invasive Bladder Cancer
Regardless of Cisplatin

Wednesday, December 17, 2025 - 06:45am



Conclusions and Future Directions

- IO is now a backbone of peri-operative treatment in MIBC, EV-pembro will revolutionize treatment further replacing platinum
- Need to personalize adjuvant therapy duration in patients with pCR using biomarkers such as ctDNA to avoid unnecessary toxicities
- Unmet need to explore bladder preservation treatment strategies in patients achieving clinical complete response to neoadjuvant treatments

Second Opinion



Elizabeth R Plimack, MD, MS



Neil Love, MD

QUESTIONS FOR THE FACULTY

Do you agree with the original recommendation of adjuvant nivolumab for this 68-year-old woman with resected upper tract urothelial carcinoma? How would you have advised her?

Results of a ctDNA assay ordered for the patient were negative, and her CT scan was clear. What would be your approach to adjuvant treatment in this situation?

Do you routinely order ctDNA assays to inform treatment decisions for patients with MIBC? If so, what is your preferred platform? Are you more confident with tumor-informed versus tumor-agnostic assays? When assessing ctDNA, how often do you repeat the assay?

Second Opinion



Thomas Powles, MBBS, MRCP, MD



Neil Love, MD

QUESTIONS FOR THE FACULTY

What would be your most likely post-cystectomy treatment approach for this 77-year-old man with PD-L1-negative MIBC and poor renal function? Would you consider adjuvant nivolumab? What about enfortumab vedotin with pembrolizumab (EVP)?

Based on the results of the Phase III IMvigor011 trial evaluating ctDNA-guided use of adjuvant atezolizumab versus observation, is this a strategy you would recommend in this setting? If initial ctDNA analysis is negative, are you comfortable proceeding with observation accompanied by serial testing?

QUESTIONS FOR THE FACULTY

Do you believe ctDNA analysis can be used to identify patients who are at a high risk of relapse and might derive greater benefit from adjuvant systemic therapy? Can longitudinal ctDNA monitoring be used to identify patients who can be spared adjuvant systemic therapy?

Agenda

Module 1: Optimal Use of Anti-PD-1/PD-L1 Antibodies in Non-Muscle-Invasive Bladder Cancer — Dr Friedlander

Module 2: Evolving Management of Muscle-Invasive Bladder Cancer — Dr Gupta

Module 3: Current and Future Role of Novel Intravesical Therapies in Nonmetastatic Urothelial Bladder Cancer (UBC) — Dr Necchi

Module 4: Emerging Utility of Circulating Tumor DNA Evaluation in Nonmetastatic UBC — Dr Galsky



Current and Future Role of Novel Intravesical Therapies in Nonmetastatic UBC



UniSR

Università Vita-Salute
San Raffaele

Andrea Necchi, MD

Vita-Salute San Raffaele University
Director of Genitourinary Medical Oncology
IRCCS San Raffaele Hospital, Milan, Italy



IRCCS Ospedale San Raffaele



I.R.C.C.S. Ospedale
San Raffaele

Gruppo San Donato

Unmet Needs Across the Disease Spectrum

- Only one-third of patients with **NMIBC** receive intravesical BCG¹
- Many of those with **NMIBC** who are unresponsive to BCG experience recurrence or progression²

- Close to half of patients with **MIBC** worldwide may not receive curative-intent therapy³
- Patients who have undergone radical cystectomy for **MIBC** often have impaired HRQOL and a high risk of recurrence^{4,5}

- More than half of patients with **mUC** may not receive first-line systemic treatment^{4,5}
- Many patients with **mUC** who progress on 1L or 2L therapy do not receive subsequent treatment^{4,5}

- In NMIBC, development of effective, safe, and durable intravesical treatment remains a critical unmet clinical need for patients who want to avoid radical cystectomy
- In MIBC, effective consolidation approaches post neoadjuvant therapy in patients who refuse to undergo radical cystectomy are key to improve disease control and QoL
- Clinical trial enrollment allows for modern advances to reach patients

Background

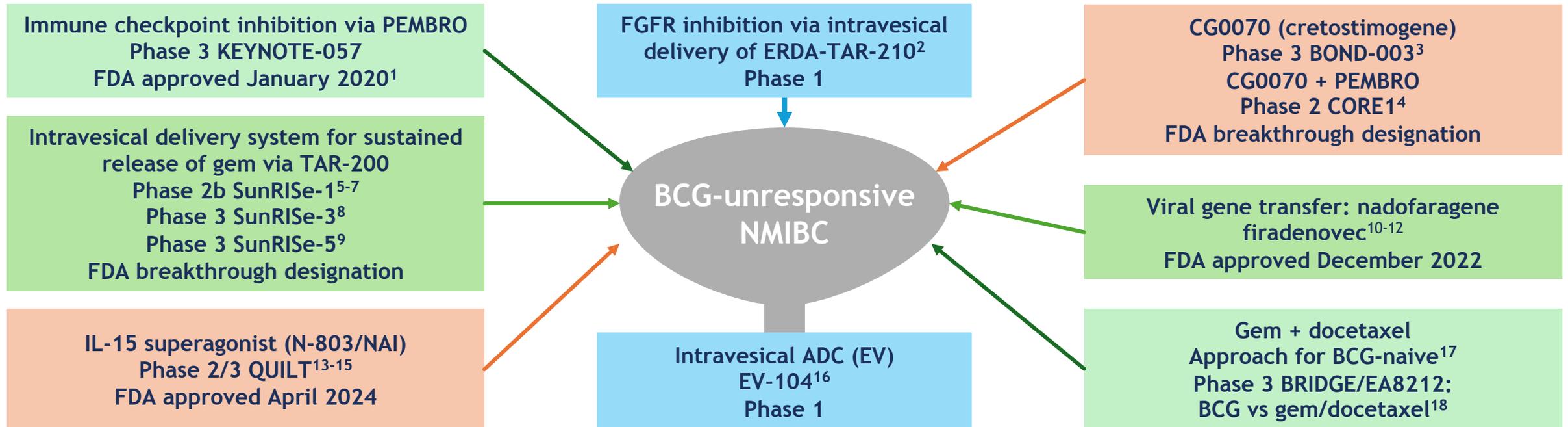
High-Risk NMIBC Is Defined as High-grade Ta, Any T1, and/or Carcinoma in situ

- **Standard of care for high-risk NMIBC:** TURBT followed by intravesical BCG
- Prognosis is poor for patients whose disease does not respond to BCG or relapses within 12 months¹; these patients are directed to radical cystectomy

Criteria for the Definition of Adequate BCG and BCG-Unresponsive, High-Risk NMIBC Are Well Established and Endorsed by the FDA²

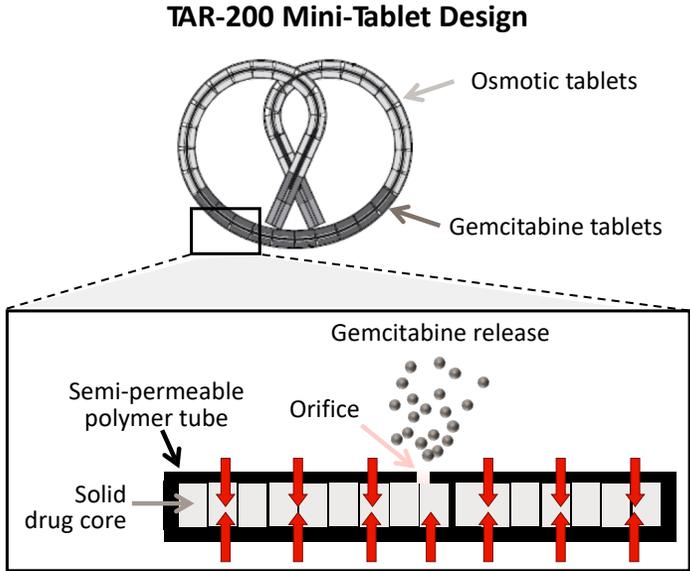
- **Adequate BCG induction:** ≥ 5 instillations of BCG and ≥ 7 instillations within 9 months of the first instillation of induction therapy
- **BCG-unresponsive, high-risk NMIBC** is defined as one of the following
 - Stage progression at 3 months despite adequate BCG induction
 - High-grade T1 disease at first evaluation after adequate BCG induction
 - Persistent high-risk NMIBC at 6 months after adequate BCG
 - Recurrent high-risk NMIBC within 9 months of the last BCG instillation despite adequate BCG

Treatment approaches for high-risk NMIBC unresponsive to BCG

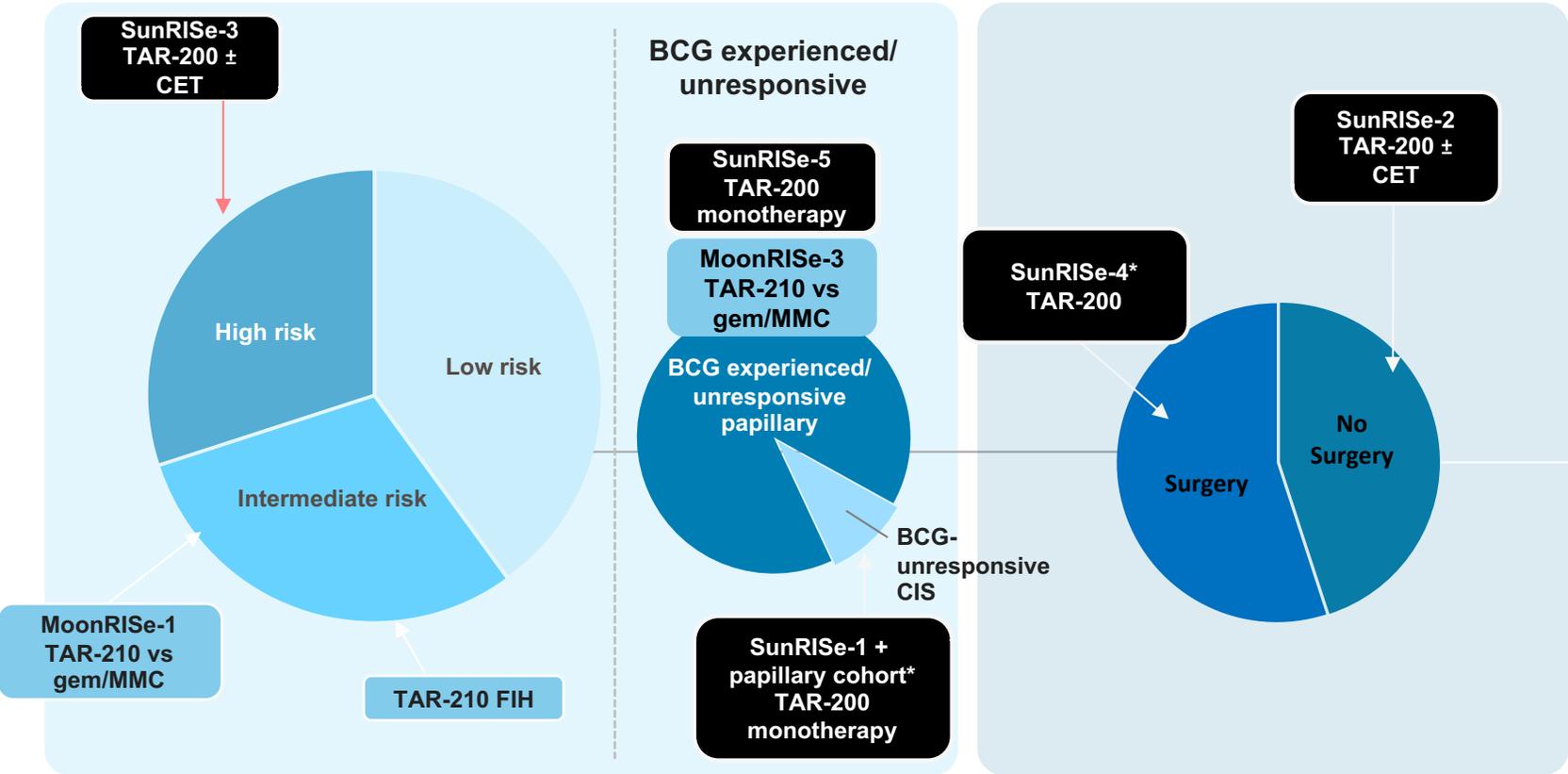


ADC, antibody-drug conjugate; BCG, Bacillus Calmette-Guerin; ERDA, erdafitinib; EV, enfortumab vedotin; FGFR, fibroblast growth factor receptor; gem, gemcitabine; IL, interleukin; NAI, nogapendekin alfa inbakicept; NMIBC, nonmuscle-invasive bladder cancer; PEMBRO, pembrolizumab. 1. Balar AV et al. *Lancet Oncol.* 2021;22:919-930. 2. Vilaseca A et al. AUA 2024. Abstract PD48-02. 3. Tyson MD et al. AUA 2024. Abstract P2-02. 4. Li R et al. *Nat Med.* 2024 Jun 6. doi: 10.1038/s41591-024-03025-3. Online ahead of print. 5. Daneshmand S et al. AUA 2023. LBA 02-03. 6. Necchi A et al. ESMO 2023. LBA105. 7. Jacob J et al. AUA 2024. Abstract P2-01. 8. ClinicalTrials.gov <https://clinicaltrials.gov/study/NCT05714202>. 9. ClinicalTrials.gov <https://clinicaltrials.gov/study/NCT06211764>. 10. Boorjian SA et al. *Lancet Oncol.* 2021;22:107-117. 11. Mitra AP et al. AUA 2022. Abstract MP54-05. 12. ADSTILADRIN® (nadofaragene firadenovec-vncg) [package insert]. Kastrup, Denmark: Ferring Pharmaceuticals; August 2024. 13. Chamie K. *NEJM Evidence.* 2022;2(1):1-11. 14. ClinicalTrials.gov <https://clinicaltrials.gov/study/NCT03022825>. 15. <https://www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-nogapendekin-alfa-inbakicept-pmln-bcg-unresponsive-non-muscle-invasive-bladder-cancer>. Accessed August 29, 2024. 16. Kamat AM et al. *J Clin Oncol.* 2023;41(suppl 16). Abstract 4596. 17. McElree IM et al. *J Urol.* 2022;208:589-599. 18. Kates M et al. *Eur Urol Focus.* 2023;9(4):561-563.

TAR development in Nonmetastatic Bladder Cancer



NMIBC **MIBC** Urologists; Uro-Oncs; Med Oncs



TAR-200 ± CET

TAR-210

*Nonregistrational. BCG, bacillus Calmette–Guerin; CET, cetrelimab; CIS, carcinoma in situ; CRT, chemoradiotherapy; FIH, first-in-human; gem, gemcitabine; MIBC, muscle-invasive bladder cancer; MMC, mitomycin C; mUC, metastatic urothelial carcinoma; NMIBC, non-muscle-invasive bladder cancer.

Phase 2b SunRISe-1 Study: Cohort 2 BCG-Unresponsive HR NMIBC CIS ± Papillary Disease

NCT04640623



- Here we report **1-year durability data from the TAR-200 monotherapy cohort (Cohort 2) of SunRISe-1**
- Response is determined by quarterly cystoscopy, quarterly central cytology, **mandated bladder biopsy by central assessment at Weeks 24 and 48**, and local imaging Q24W
- The study protocol **did not allow re-induction for nonresponders**, consistent with US FDA guidance²
- As of June 2023, Cohorts 1 and 3 were closed for enrollment, and Cohort 2 enrollment continued to achieve N=85, per protocol amendment

The clinical data cutoff was March 31, 2025.

DFS, disease-free survival; ECOG PS, Eastern Cooperative Oncology Group performance status; HRQoL, health-related quality of life; Q3W, every 3 weeks; Q12W, every 12 weeks; Q24W, every 24 weeks; R, randomization.

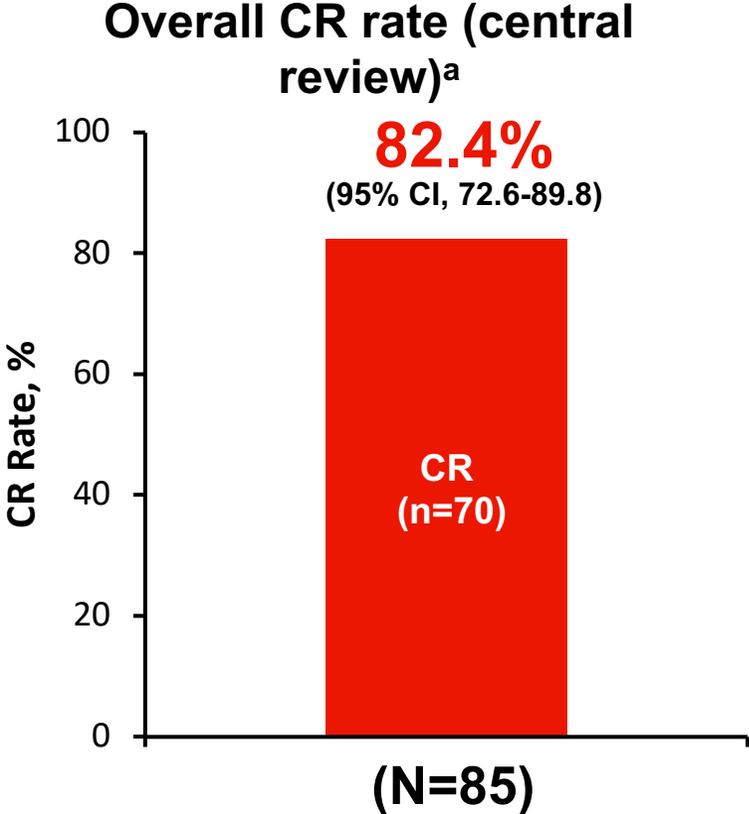
^aPatients with BCG-unresponsive papillary-only HR NMIBC (high-grade Ta, any T1) per protocol amendment 4. ^bCetrelimab is an anti-programmed cell death-1^{3,4}; cetrelimab dosing was Q3W through Week 78. ^cNumber of patients enrolled in Cohort 1 was N=55 and number of patients treated was N=53.

1. Lerner SP, et al. *Urol Oncol*. 2009;27:155-159. 2. US Food and Drug Administration. Available at: <https://www.fda.gov/media/101468/download>. 3. DeAngelis N, et al. *Cancer Chemother Pharmacol*. 2022;89:515-527.

4. Felip E, et al. *Cancer Chemother Pharmacol*. 2022;89:499-514.



Highest CR Rate to Date With Rapid Onset After TAR-200 Monotherapy in BCG-Unresponsive HR NMIBC CIS ± Papillary Disease



CR Rate From Treatment Initiation	Observed Overall CR Rate, % (n/N)
12 months ^b	45.9 (39/85)
KM Estimated Overall CR Rate, % (95% CI)	
12 months	52.4 (40.7-62.8)
24 months	44.7 (33.1-55.7)

- Rapid onset of response: median time to onset, **2.8 months** (range, 2.1-8.3)
- **95.7%** (67 of 70) CRs achieved at the first (3 month) disease assessment

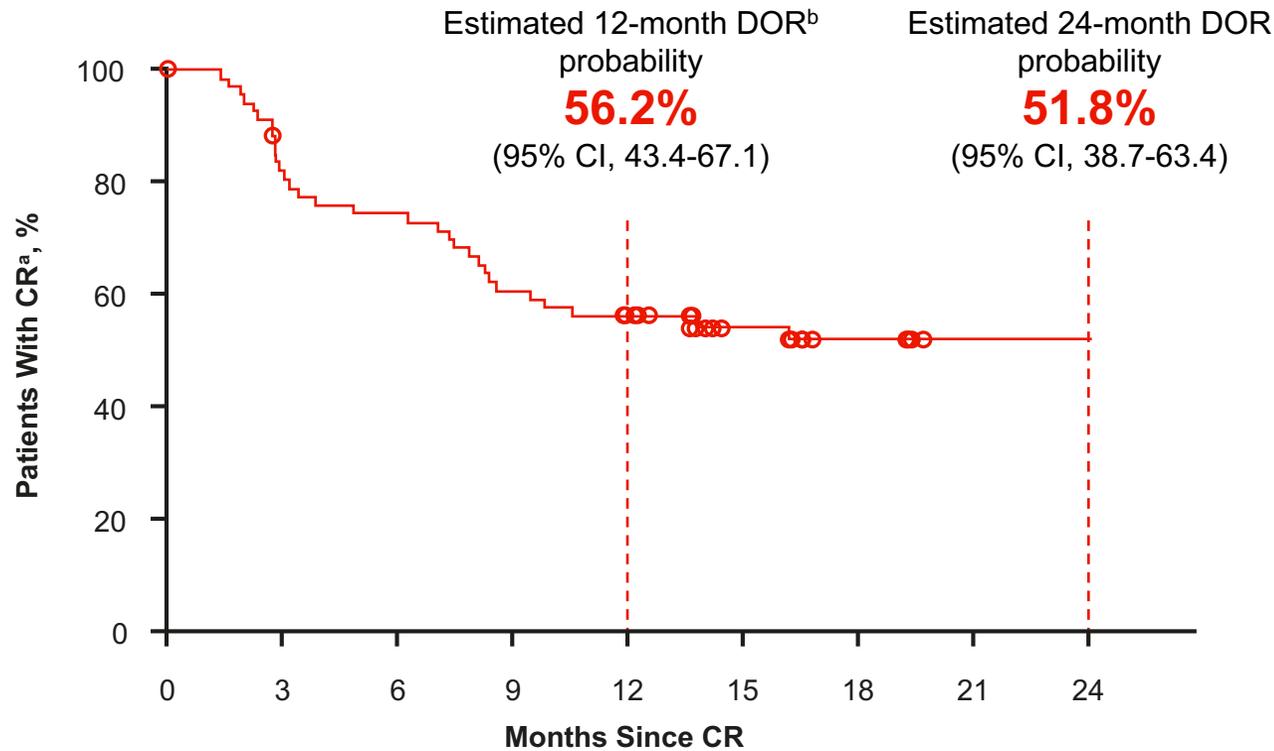
FDA Breakthrough Therapy Designation

Daneshmand S, et al. *J Clin Oncol.* 2025 Nov 20;43(33):3578-3588.

CI, confidence interval; KM, Kaplan-Meier.
^aResponse is based on centrally reviewed urine cytology, local cystoscopy, and central biopsy (if available). CRs do not have to be confirmed. A CR is defined as having a negative cystoscopy and negative (including atypical) centrally read urine cytology, or positive cystoscopy with biopsy-proven benign or low-grade NMIBC and negative (including atypical) centrally read cytology at any time point. ^bThe CR rate at 12 months is represented by disease evaluation occurring at 48 weeks from first dose.



Durable Responses With TAR-200 Monotherapy



Number at risk 70 54 49 40 37 23 15 11 11

- **25.8 months** (95% CI, 8.3-NE) median DOR
- Of 70 responders:
 - 23 (32.9%) had HR NMIBC recurrence^c
 - 4 (5.7%) had \geq T2 progression^c
- **86.6%** (95% CI, 76.6-92.6) cystectomy-free rate at 12 months

Daneshmand S, et al. *J Clin Oncol*. 2025 Nov 20;43(33):3578-3588.

DOR, duration of response; MIBC, muscle-invasive bladder cancer; NE, not estimable.

^aResponse is based on centrally reviewed urine cytology, local cystoscopy, and central biopsy (if available). CRs do not have to be confirmed. A CR is defined as having a negative cystoscopy and negative (including atypical) centrally read urine cytology, or positive cystoscopy with biopsy-proven benign or low-grade NMIBC and negative (including atypical) centrally read cytology at any time point. ^bMedian follow-up in responders was 20.2 months (range, 5-48). ^cStage based on investigator assessment. Three patients with no evidence of disease had recurrence/progression based on central review but was not indicated by local assessment.



TAR-200 Monotherapy Safety Profile

- Most TEAEs were grade 1 or 2
 - TEAEs resolved after a median of 3.1 weeks
- 99% (745 of 755) insertion success rate
- 5 patients (5.9%) had ≥ 1 serious TRAEs^a
- Few patients (n=3; 3.5%) discontinued treatment due to TRAEs^b
- No treatment-related deaths were reported

Patients With Events, n (%)	TAR-200 Monotherapy Cohort 2 (N=85) ^c	
	Any Grade	Grade ≥ 3
≥ 1 TRAE ^d	71 (83.5)	11 (12.9)
Most frequent TRAEs ^{e,f}		
Pollakiuria	37 (43.5)	0
Dysuria	34 (40.0)	0
Micturition urgency	21 (24.7)	0
Urinary tract infection	19 (22.4)	1 (1.2)
Hematuria	14 (16.5)	0
Urinary tract pain	9 (10.6)	4 (4.7)
Bladder pain	7 (8.2)	2 (2.4)
Bladder spasm	7 (8.2)	0
Noninfective cystitis	6 (7.1)	0
Urinary incontinence	5 (5.9)	0

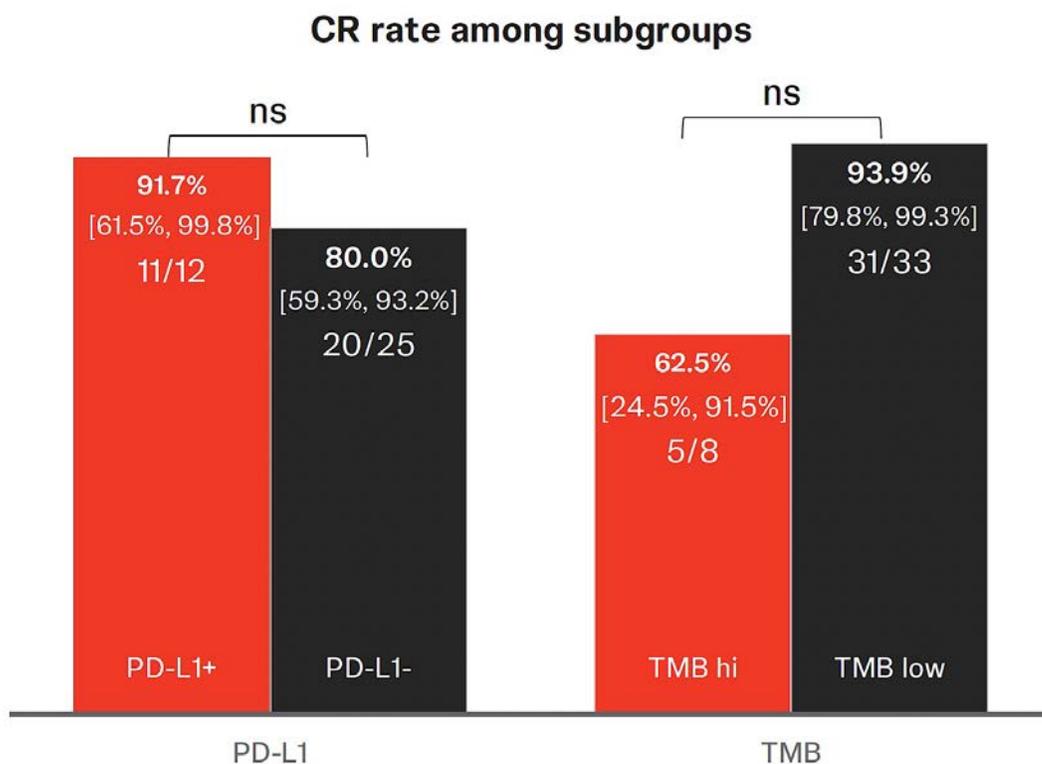
TEAE, treatment emergent adverse event; TRAE, treatment-related adverse event.

^a1 event each of acute kidney injury, bladder pain, cystitis, cystitis pseudomonal, urinary tract infection, urinary tract pain, and urosepsis. Note, patients may have had ≥ 1 serious TRAE. ^bTRAEs leading to discontinuation were noninfective cystitis (n=2), bladder pain (n=1), pollakiuria (n=1), and urinary tract disorder (n=1). Note, patients who discontinued may have had ≥ 1 TRAE. ^cSafety is shown for all patients who received at least 1 dose of TAR-200 in the safety analysis set (N=85). ^dAn AE was categorized as related if the investigator determined that there was a possible, probable, or causal relationship between the AE and TAR-200 or the insertion or removal procedure or urinary placement catheter. ^eReported in $\geq 5\%$ of patients. ^fTRAEs of grade ≥ 3 reported in $\geq 2\%$ of patients. All other TRAEs of grade ≥ 3 were reported in only 1 patient each and included acute kidney injury, cystitis, urinary retention, cystitis pseudomonal, and urosepsis. Note, patients may have had ≥ 1 grade ≥ 3 TRAE.



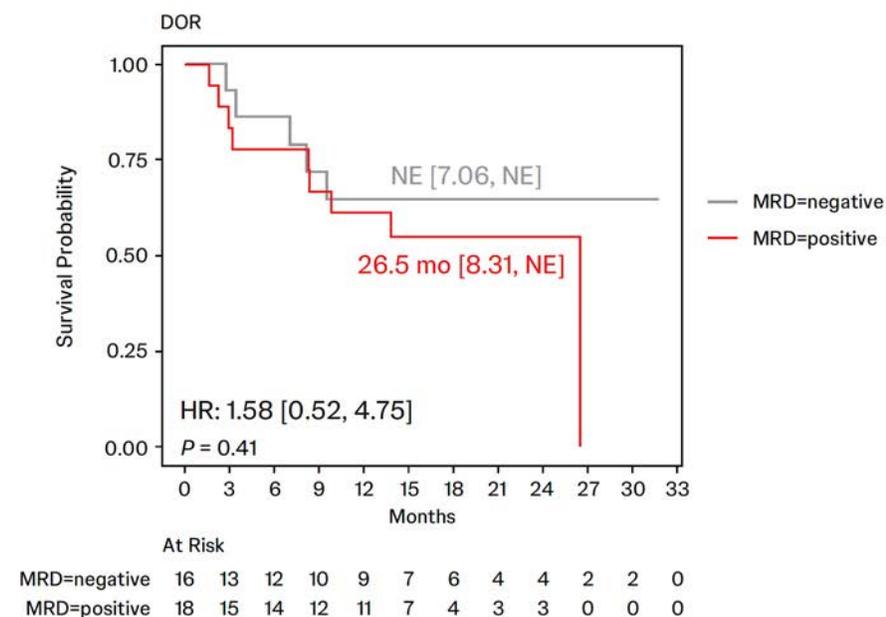
Translational Results With TAR-200 Monotherapy (SR1 – Cohort 2)

PD-L1 and TMB status and association with response

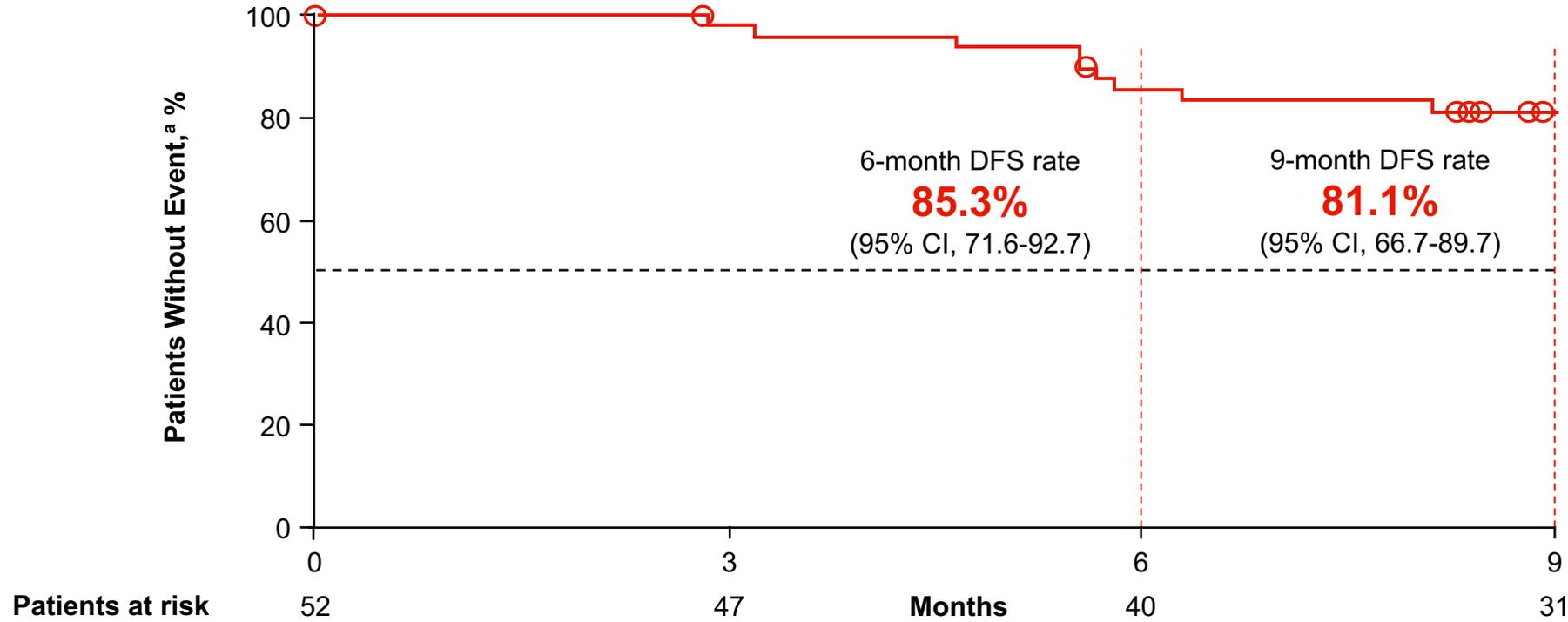


Association of MRD status with response

	CR rate [95% CI]	P value	1 yr DOR rate (%) [95% CI]	P value
MRD-positive	78.2% [56.3%, 92.5%]	0.820	64.6% [34.7%, 83.5%]	0.41
MRD-negative	88.9% [65.3%, 98.6%]		61.1% [35.3%, 79.2%]	



Cohort 4 interim results: 6- and 9-Month DFS Rates With TAR-200 Monotherapy in Papillary Disease–Only HR NMIBC



- Median follow-up was 12.8 months
- **Median DFS was not reached** (95% CI, 12.1-NE)
- Overall, only **5.8%** (3 of 52) of patients had **RC**

NE, not estimable.

^aAn event is defined as recurrence, progression, or death.



SunRISe-3 (NCT05714202) Is a Phase 3, Open-Label, Multicenter Randomized Study

Key eligibility criteria

- Patients with histologically confirmed HR NMIBC (high grade Ta, any T1, or CIS)
- BCG naive (no prior BCG or last exposure >3 years prior to randomization)

Additional criteria:

- Aged ≥18 years
- ECOG PS of 0, 1, or 2
- All visible papillary disease must be fully resected (absent) prior to randomization and documented at baseline cystoscopy
- Local urine cytology at screening must be negative or atypical for high-grade urothelial carcinoma in patients with papillary-only disease
- All adverse events associated with any prior surgery and/or intravesical therapy must have resolved to CTCAE v5.0 grade <2 prior to date of randomization

1:1:1
(N≈1050)
R

Group A (n≈350)
TAR-200 + cetrelimab^a

Group C (n≈350)
TAR-200

Group B (n≈350)
BCG

Primary end point

Event-free survival

Time from randomization to first occurrence of:

High-risk disease recurrence

Disease progression^b

Any-cause death

For patients with CIS, persistent disease at 6 months is also an EFS event

Secondary end points

Overall CR rate (CIS only)^c/duration of CR^d

Recurrence-free survival

Time to progression

Overall survival

Cancer-specific survival

Safety and tolerability

Patient-reported outcomes

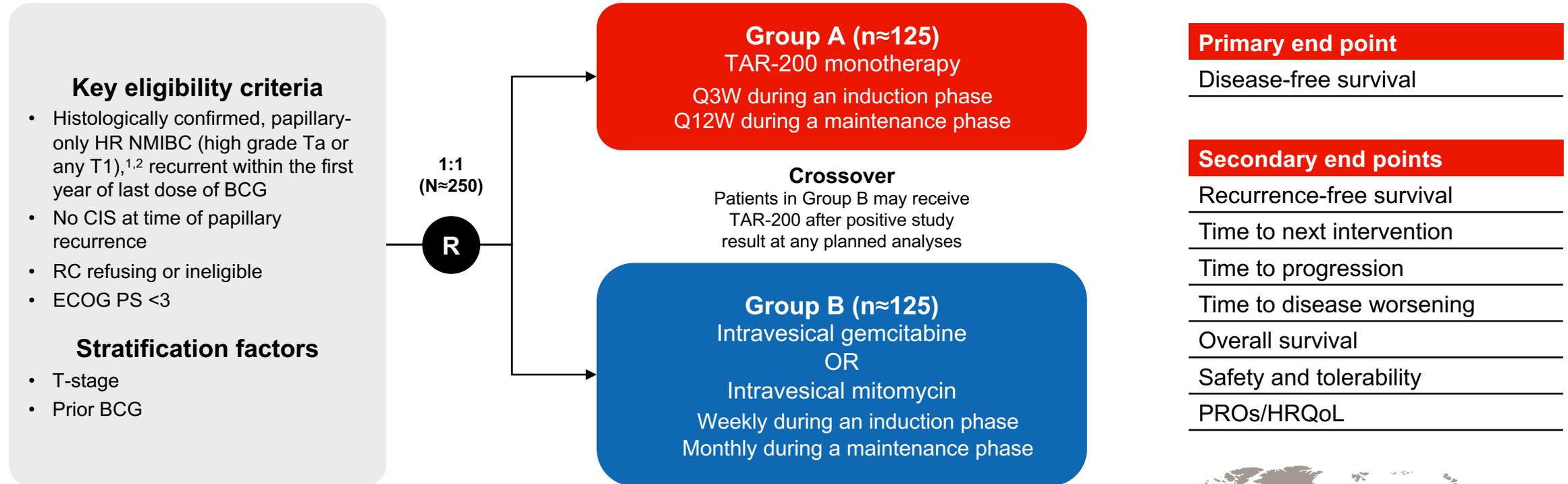


CR, complete response; CTCAE, Common Terminology Criteria for Adverse Events; ECOG PS, Eastern Cooperative Oncology Group performance status; EFS, event-free survival.

^aCetrelimab is an anti-programmed death-1 antibody. ^bProgression is defined as stage increase from Ta to T1 or from CIS to T1 or progression to MIBC (T≥2) or to lymph node (N+) or distant (M+) disease (whichever occurs first).

^cProportion of patients with CIS who have no presence of high-risk disease at 6 months. ^dTime from first CR achieved to first evidence of recurrence, progression, or any-cause death, whichever occurs first.

SunRISe-5 (NCT06211764) Is an Open-Label, Multicenter Phase 3 Study



- Disease-free survival is defined as time from randomization to first recurrence of HR NMIBC (high grade Ta, any T1 or CIS), progression, or any cause death, whichever occurs first

The study will evaluate whether TAR-200 will prolong disease-free survival when compared with intravesical chemotherapy in patients with papillary-only HR NMIBC recurrent after BCG therapy who refuse or are unfit for RC



ECOG PS, Eastern Cooperative Oncology Group performance status; PRO, patient-reported outcome; HRQoL, health-related quality of life; Q3W, every 3 weeks; Q12W, every 12 weeks.
1. NCCN Clinical Practice Guidelines in Oncology. Bladder Cancer. Version 1. 2024. 2. EAU Guidelines. Edn. presented at the EAU Annual Congress Milan 2023. ISBN 978-94-92671-19-6.



Cretostimogene Grenadenorepvec – BOND-003 Trial

FDA Breakthrough Therapy Designation

US-based clinical trial

76% CR at Any Time; 74.4% of Responders Maintained Response ≥ 6 Months

CR at Any Time

75.7%

(95% CI, 63% - 85%)



Cretostimogene
(n=66)

CR Lasting ≥ 6 Mo

74.4%

(95% CI, 58% - 86%)

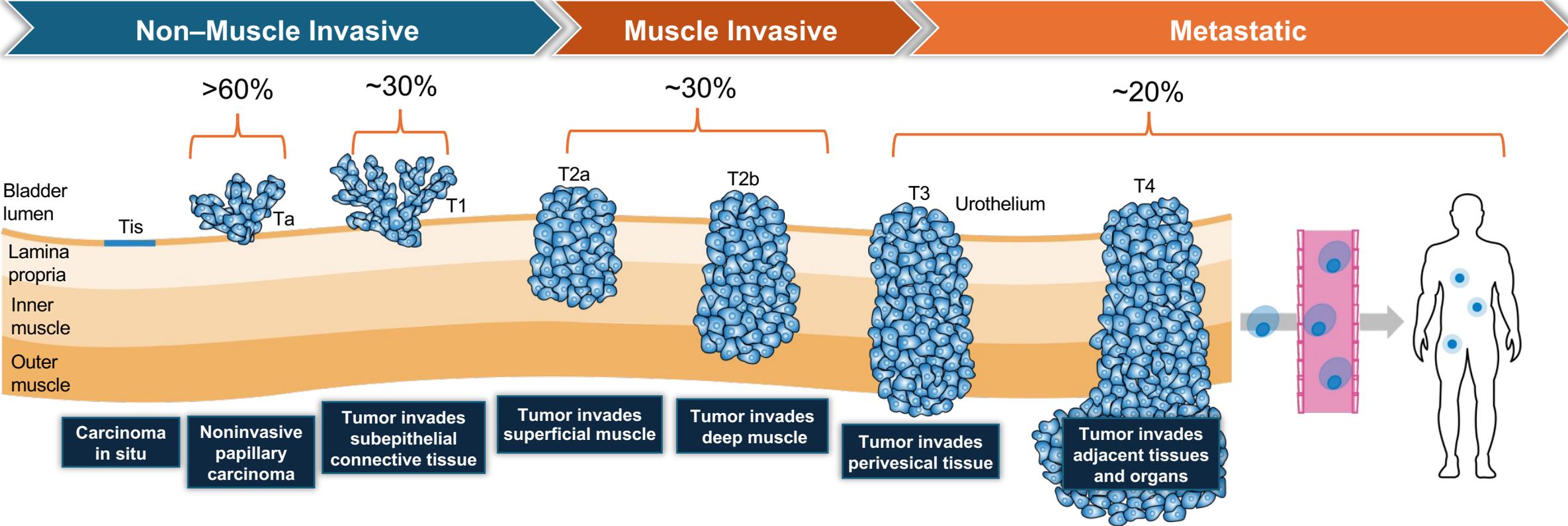


Cretostimogene
(n=43)¹

Response Evaluation	Cretostimogene Monotherapy	
	%, (n/N)	Confidence Interval (CI)
Complete Response		
Complete Response, Any Time	75.7% (50/66)	95% CI: 63% - 85%
Complete Response, 3 Months	68.2% (45/66)	95% CI: 55% - 79%
Complete Response, 6 Months	63.6% (42/66)	95% CI: 51% - 75%
Duration of Complete Response		
Duration of Response ≥ 3 Months	84.0% (42/50)	95% CI: 70% - 92%
Duration of Response ≥ 6 Months	74.4% (32/43) ¹	95% CI: 58% - 86%



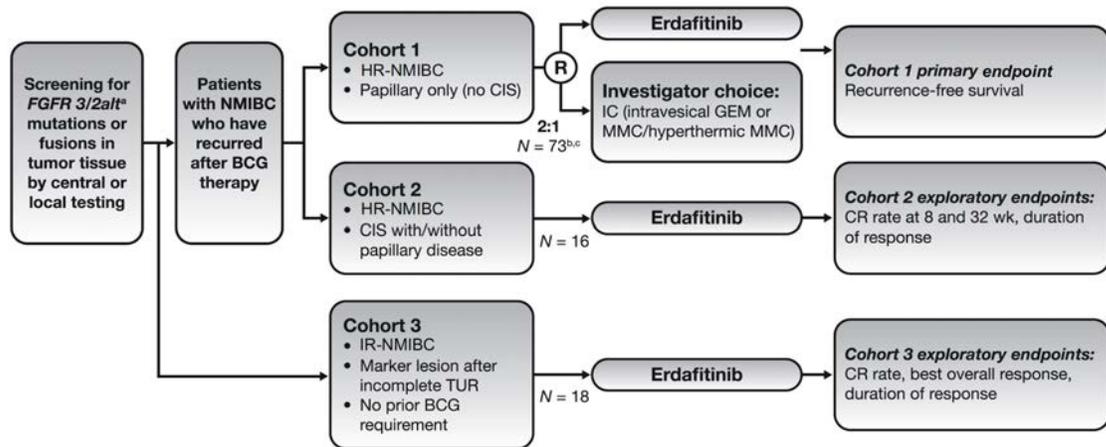
FGFR Mutations Are Frequently Observed in Bladder Cancer¹



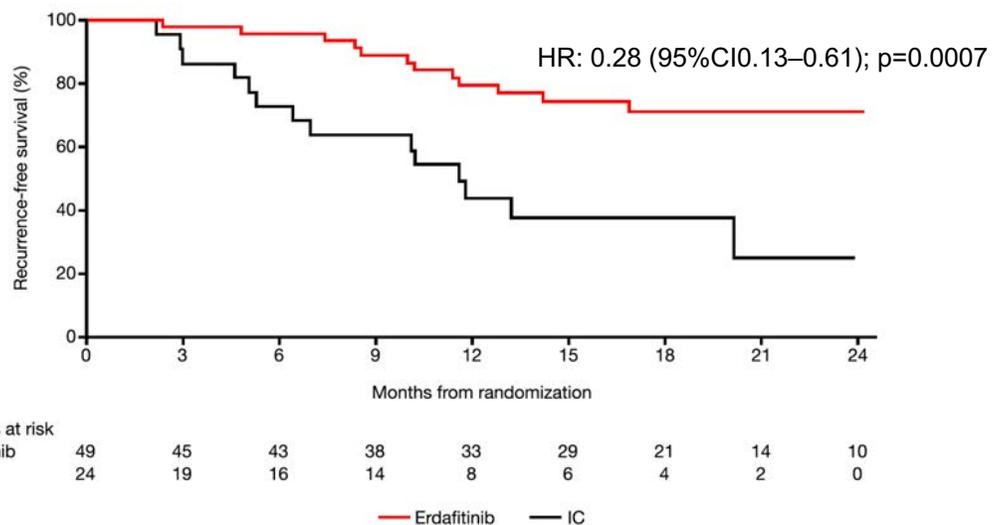
FGFR inhibitors can be effective across the disease spectrum

1. Knowles MA et al. *Nat Rev Cancer*. 2015;15:25-41.

THOR-2: Oral Erdafitinib Final Results

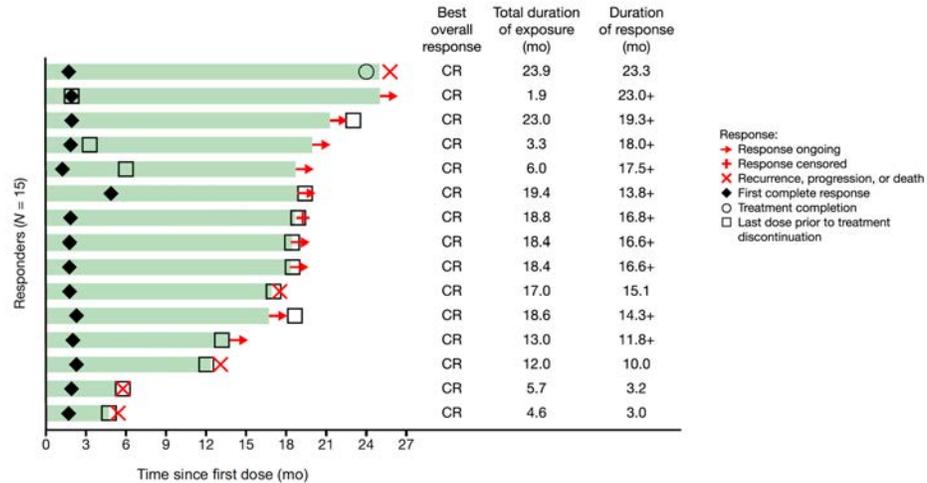


Cohort 1



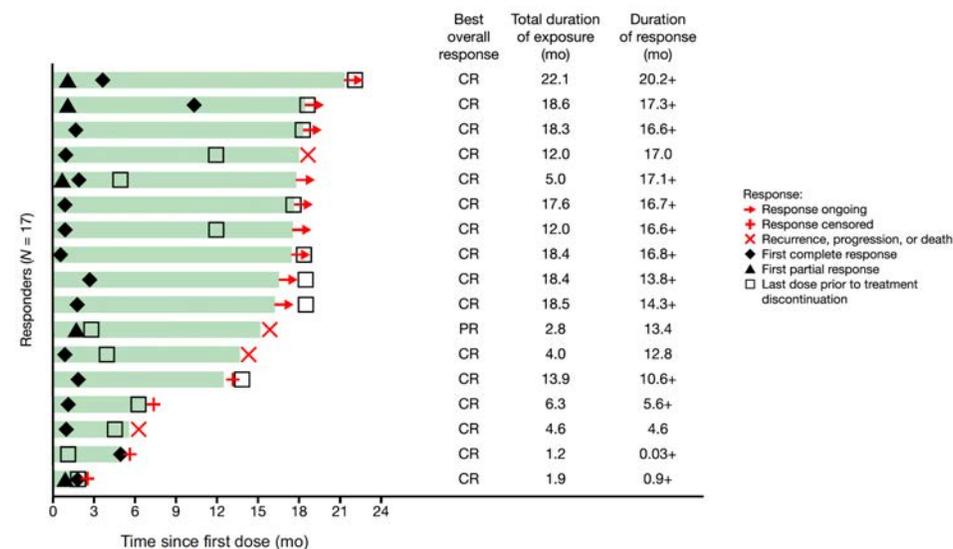
Cohort 2:

- CR (8w): 94%; (32w): 81%
- median DoR: 23.3mo



Cohort 3:

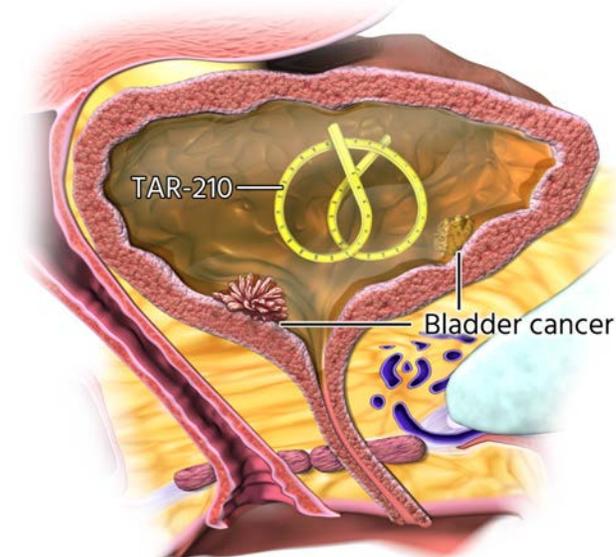
- CR (3m): 89%
- median DoR was NR



TAR-210 is a Novel Intravesical Targeted Releasing System Designed to Deliver Erdafitinib for Patients With Bladder Cancer

- Despite available treatment options for patients with IR NMIBC, recurrence rates remain high, underscoring the need for effective therapies¹
- *FGFR* alterations are prevalent in ~50% to 80% of low-grade NMIBC and may function as oncogenic drivers²⁻⁴
- **Erdafitinib** is a selective pan-FGFR tyrosine kinase inhibitor⁵
 - Oral erdafitinib is approved in the United States to treat adults with locally advanced or mUC with susceptible *FGFR3* alterations following progression on or after at least 1 prior systemic treatment, with additional approvals across geographies⁶⁻⁹
- Oral erdafitinib demonstrated clinical efficacy in HR and IR NMIBC populations, but was limited by challenging systemic toxicities¹⁰⁻¹²
 - In an interim analysis of THOR-2 Cohort 3, 15/18 patients with *FGFR*-altered IR NMIBC had CR (83%) with median DOR of 12.8 months¹³

TAR-210 is a novel targeted releasing system designed for sustained local delivery of erdafitinib over 3 months in the bladder



TAR-210 is placed using a urinary placement catheter in a 2-3 minute in-office procedure.

In a first-in-human study, TAR-210 was well tolerated with promising clinical activity in *FGFR*-altered **HR NMIBC (RFS rate: 82%)** and **IR NMIBC (CR rate: 87%)**.¹⁴

CR, complete response; FGFR, fibroblast growth factor receptor; HR, high risk; IR, intermediate risk; mUC, metastatic urothelial carcinoma; NMIBC, non-muscle-invasive bladder cancer; RFS, recurrence free survival.

1. Ritch CR, et al. *J Urol*. 2020;203:505-511. 2. Hernández S, et al. *J Clin Oncol*. 2008;24:3664-3671. 3. Knowles MA, Hurst CD. *Nat Rev Cancer*. 2014;15:25-41. 4. Khalid S, et al. *Eur Urol Open Sci*. 2020;21:61-68. 5. Perera TPS, et al. *Mol Cancer Ther*. 2017;16:1010-1020. 6. Erdafitinib [package insert]. Horsham, PA: Janssen Products, LP; 2024. 7. Loriot Y, et al. *N Engl J Med*. 2019;381:338-348. 8. Siefker-Radtke AO, et al. *Lancet Oncol*. 2022;23:248-258. 9. Loriot Y, et al. *N Engl J Med*. 2023;21:1961-1971. 10. Daneshmand S, et al. *J Clin Oncol*. 2023;41(Suppl 6):504. 11. Catto JWF, et al. *J Clin Oncol*. 2023;41(Suppl 6):503. 12. Catto JWF, et al. *Ann Oncol*. 2024;35:98-106. 13. Daneshmand S, et al. *Urol Oncol: Sem Orig Investig*. 2024;42:S58. 14. Vilaseca A, et al. *Ann Oncol*. 2023;34:S1343.

Presented by R Li at the 119th AUA Annual Meeting; May 3-6, 2024; San Antonio, TX, USA



TAR-210 First-in-Human Phase 1: Cohorts 1 and 3

Study Design

NCT05316155

Molecular Eligibility

FGFR alterations:

- Flexible molecular eligibility strategy used
 - Local or central fresh/ archival **tissue-based** testing by NGS or PCR
- or—
- Central **urine cell-free DNA** NGS testing

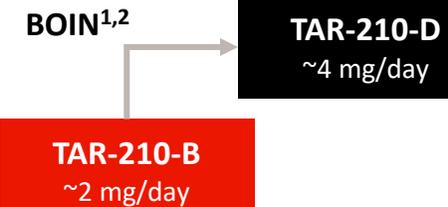
HR NMIBC (Cohort 1)

- Recurrent, high-grade Ta/T1, papillary only, no CIS
- BCG-experienced^a and not undergoing radical cystectomy
- TURBT with complete resection of all visible disease prior to treatment

IR NMIBC (Cohort 3)

- Recurrent, history of low-grade only Ta/T1 disease
- **Visible target lesions** prior to treatment (chemoablation design)

Part 1: Dose Escalation



- Placement every 3 months

Part 2: Dose Expansion

- Expansion of both dose levels

Response assessed every 3 months with continued treatment for up to 1 year if recurrence free (Cohort 1) or complete response (Cohort 3).

Clinical cutoff date: **March 22, 2024.**

BCG, bacillus Calmette-Guérin; BOIN, Bayesian optimization interval; CIS, carcinoma in situ; HR, high risk; IR, intermediate risk; NGS, next-generation sequencing; PCR, polymerase chain reaction; PK, pharmacokinetics; TURBT, transurethral resection of bladder tumor.

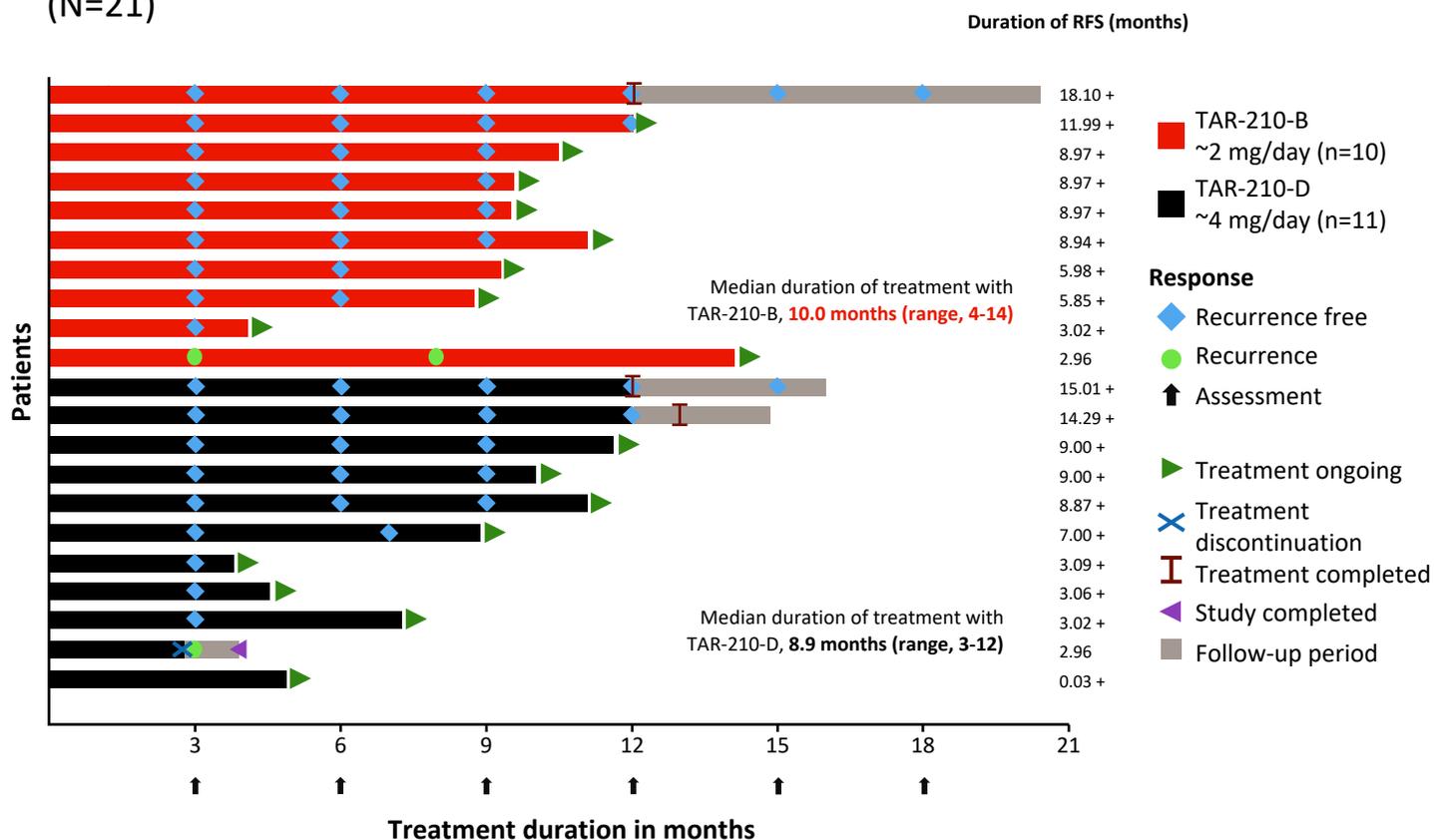
^aBCG experienced is defined as 5 of 6 induction doses with or without maintenance or intolerant of BCG.

1. Liu S, Yuan Y. *J R Stat Soc Ser C Appl Stat.* 2015;64:507-523. 2. Yuan Y, et al. *Clin Cancer Res.* 2016;22:4291-4301.



TAR-210 HR NMIBC (Cohort 1): Results

HR NMIBC With *FGFR* Alterations (Cohort 1) (N=21)



- **90% estimated 12-month RFS rate^a (n=21)**
 - Median RFS was not estimable
 - 2 of 21 patients have recurred
 - Median duration of follow-up 8.9 months
- No difference observed in RFS between the TAR-210 dose levels

+ Indicates patient was censored; CI, confidence interval; CR, complete response; NE, non-estimable; RFS, recurrence-free survival.

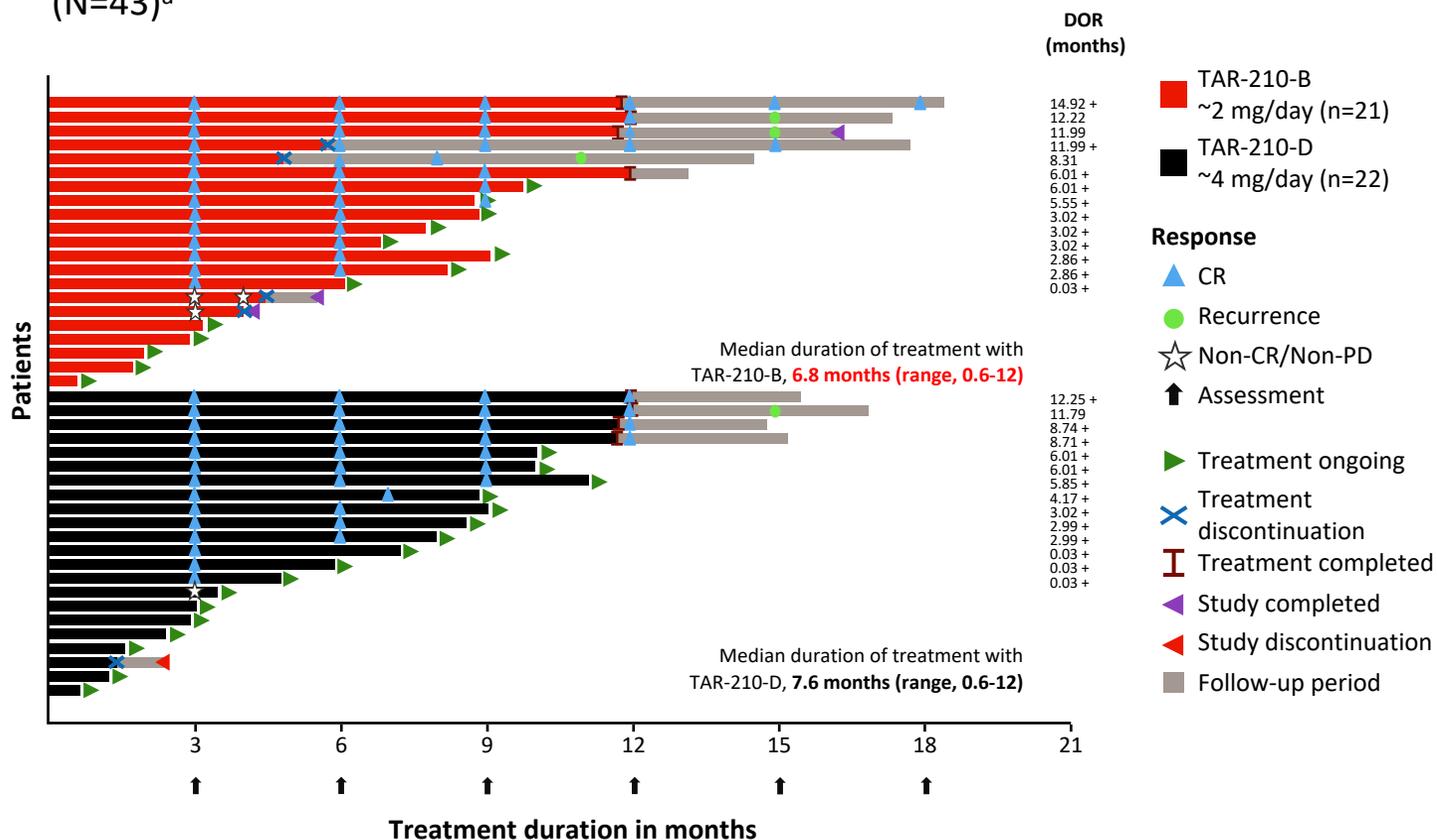
^aAll treated patients were efficacy evaluable. RFS was estimated using the Kaplan-Meier method.



TAR-210 IR NMIBC (Cohort 3): Results

IR NMIBC With *FGFR* Alterations (Cohort 3)

(N=43)^a



- Overall, 31 patients were evaluable for response^b
- **90% CR rate**, with 28/31 patients achieving a CR at Week 12
- Overall, **100% of patients achieved a clinical response**; 3 patients had a non-CR/non-PD response
- Consistent CR rate across both doses
- 86% (24/28) of CRs are ongoing at time of clinical cutoff

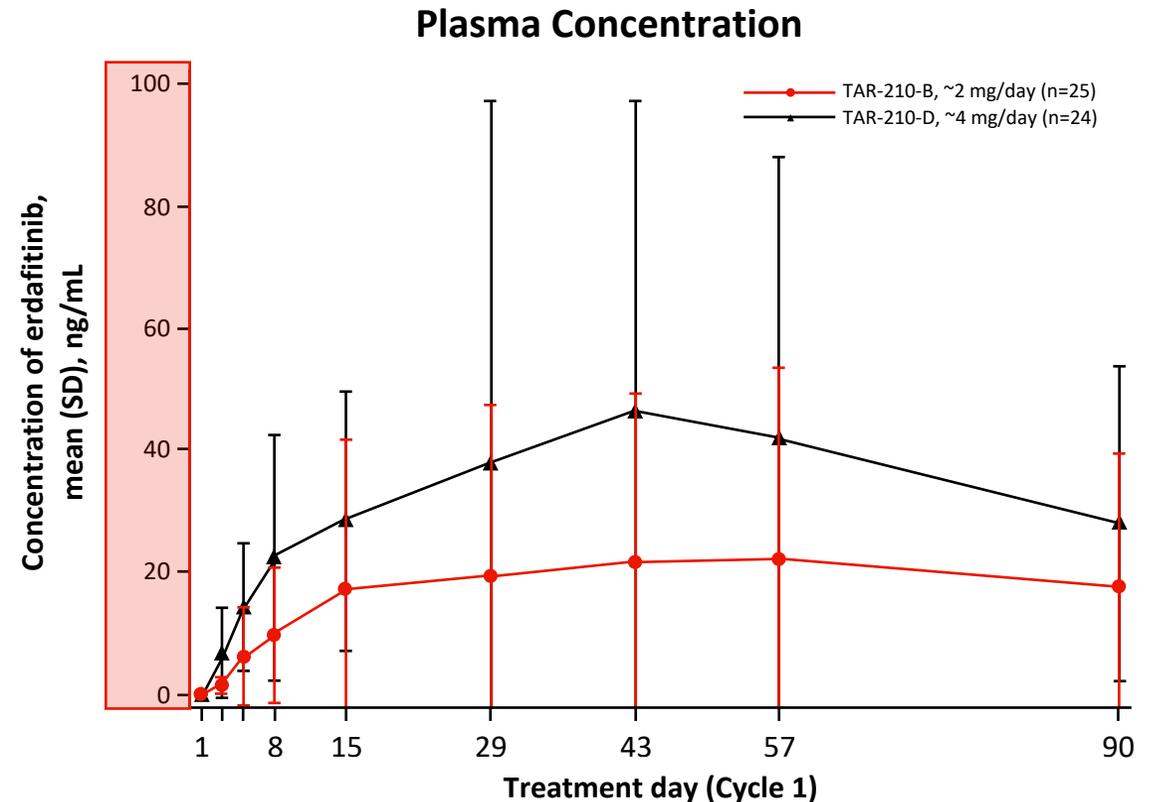
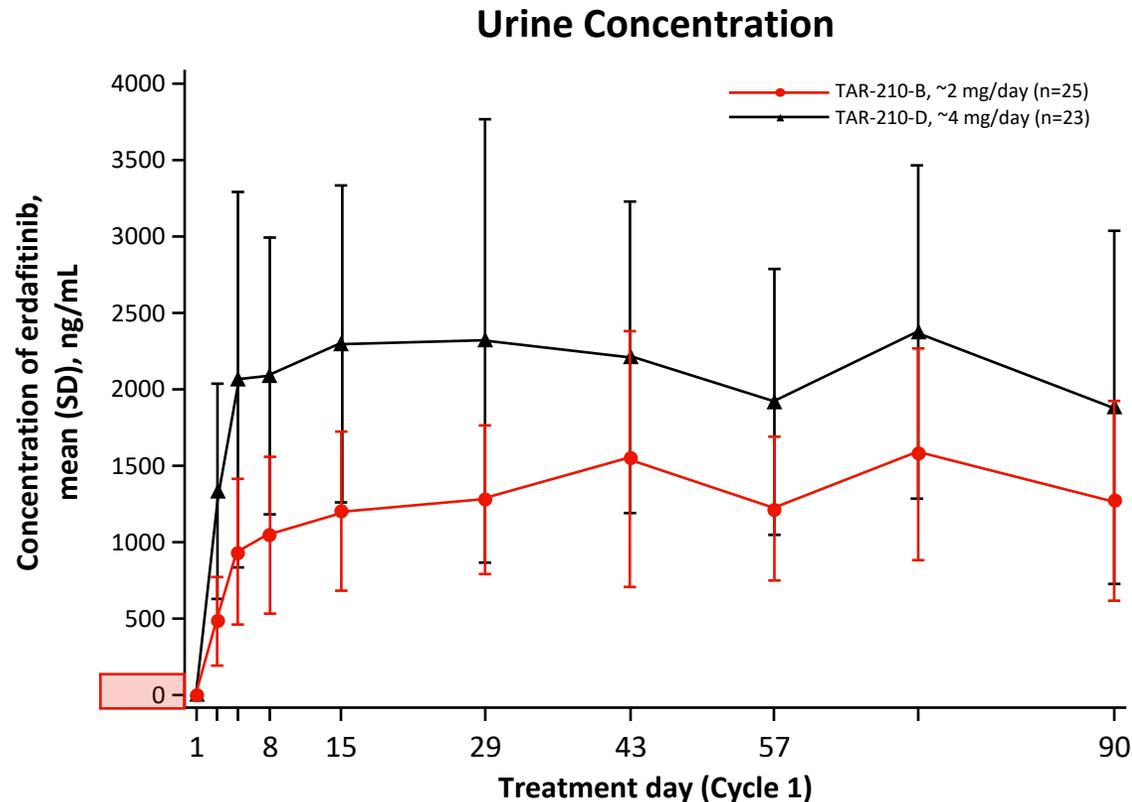
Durable response rate at specific landmarks ^c	% (95% CI)
6 months	100 (100-100)
9 months	89 (43-98)

+ Indicates patient was censored; DOR, duration of response; PD, progressive disease.

^a43 patients were treated; 31 patients were efficacy evaluable for CR and DOR. ^bEfficacy evaluable patients were those having at least one disease evaluation or discontinuing treatment prior to their first disease evaluation for either PD or recurrence. ^cDOR was estimated using the Kaplan-Meier method.



TAR-210 Provided Sustained Erdafitinib Concentrations in Urine With Very Low Plasma Concentrations



- No hyperphosphatemia was reported, consistent with the very low plasma concentrations observed with TAR-210
- Mean plasma erdafitinib concentrations were $>50 \times$ lower than mean urine concentrations



Safety and Tolerability of TAR-210 in HR NMIBC (Cohort 1) and IR NMIBC (Cohort 3)

- The majority of AEs were grade 1/2 lower urinary tract AEs
- Few patients discontinued due to AEs
 - 2 patients (3%) discontinued due to TRAEs of low-grade urinary symptoms
- 2 patients had serious TRAEs with pyelonephritis and sepsis or UTI and sepsis, respectively
 - Both events resolved with antibiotics and patients were able to continue TAR-210
- No dose-limiting toxicities were identified

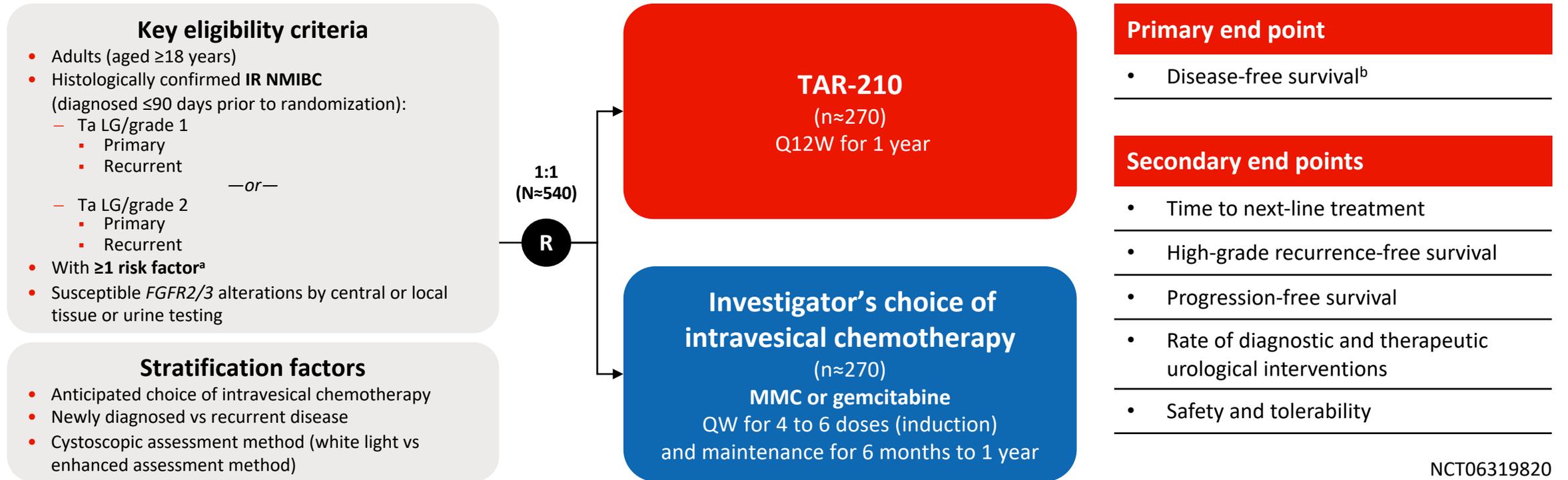
Patients with events, n (%)	HR NMIBC (Cohort 1)		IR NMIBC (Cohort 3)		All patients (N=64)
	TAR-210-B ~2 mg/day (n=10)	TAR-210-D ~4 mg/day (n=11)	TAR-210-B ~2 mg/day (n=21)	TAR-210-D ~4 mg/day (n=22)	
≥1 AE	10 (100)	9 (82)	20 (95)	15 (68)	54 (84)
≥1 TRAE ^a	9 (90)	5 (55)	9 (43)	6 (27)	30 (47)
Hematuria	5 (50)	2 (18)	7 (33)	4 (18)	18 (28)
Dysuria	4 (40)	2 (18)	4 (19)	2 (9)	12 (19)
Micturition urgency	2 (20)	1 (9)	5 (24)	0	8 (13)
UTI	0	1 (9)	3 (14)	1 (5)	5 (8)
Urethral pain	1 (10)	1 (9)	1 (5)	0	3 (5)
Cystitis noninfective	0	0	1 (5)	1 (5)	2 (3)
≥1 TRAE of grade ≥2	3 (30)	3 (27)	6 (29)	2 (9)	14 (22)

AE, adverse event; TRAE, treatment-related adverse event; UTI, urinary tract infection.

^aListed are AEs related to TAR-210 by preferred term that were reported in >1 patient in either cohort.



MoonRISe-1: An Open-Label, Multicenter, Randomized Phase 3 Study to Evaluate Efficacy and Safety of TAR-210 vs Intravesical Chemotherapy in Patients With *FGFR*-Altered, Low-Grade IR NMIBC



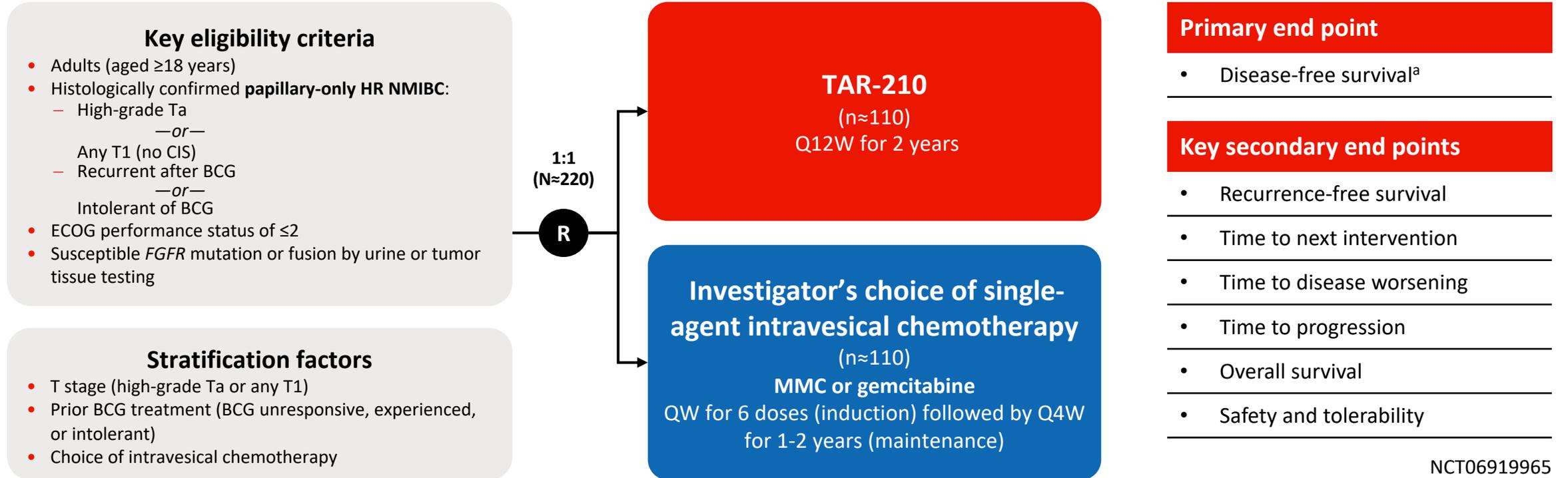
- All visible papillary disease must be fully resected prior to randomization
- Assessments of recurrence or progression include urine cytology, cystoscopy, for-cause TURBT or biopsy of bladder lesions, ultrasound, and urography
- The follow-up phase for patients meeting the primary end point is up to ≈ 5 years

^aRisk factors include multiple Ta LG tumors, tumors ≥ 3 cm, early (< 1 year) recurrence, frequent (> 1 per year) recurrences, or recurrence after prior adjuvant intravesical chemotherapy. ^bDisease-free survival defined as time from randomization to first documented recurrence of any-grade NMIBC, disease progression, or death from any cause, whichever occurs first.

LG, low grade; MMC, mitomycin C; NMIBC, non-muscle-invasive bladder cancer; Q12W, every 12 weeks; QW, every week; R, randomized; TURBT, transurethral resection of bladder tumor.



MoonRISe-3: Phase 3 Study of TAR-210 vs Intravesical Chemotherapy in Patients With BCG-treated, *FGFR*-altered Papillary-only HR NMIBC



- Assessments of recurrence or progression will be based on central urine cytology, bladder biopsy, and imaging results
- After a positive interim analysis, the IDMC may recommend a crossover option for patients with recurrence in the intravesical chemotherapy arm

^aDisease-free survival defined as time from randomization to first documented recurrence of HR NMIBC (high-grade Ta, any T1, or CIS), disease progression, or death from any cause, whichever occurs first. IDMC, independent data monitoring committee; MMC, mitomycin C; NMIBC, non-muscle-invasive bladder cancer; Q12W, every 12 weeks; Q4W, every 4 weeks; QW, every week; R, randomized.



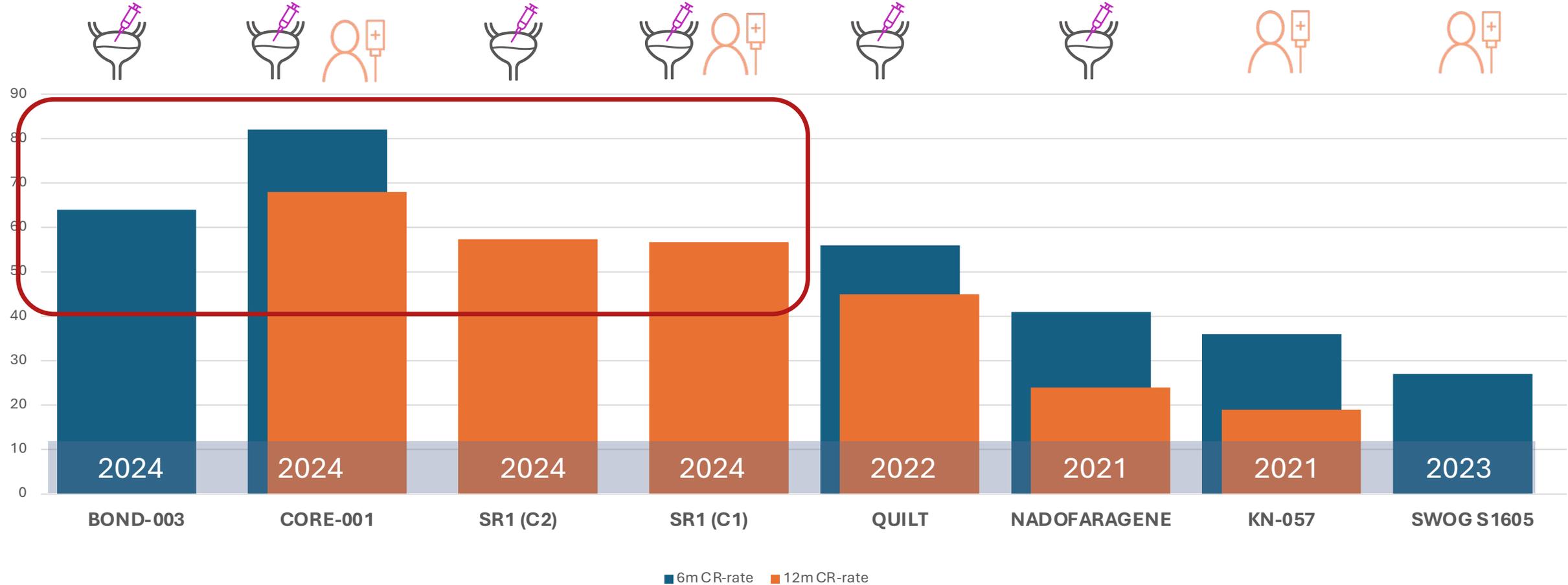
Summary of the Key Efficacy and Safety Outcomes of Novel Therapies for the Treatment of HR NMIBC

Trial	BOND-003 ¹	CORE-001 ²	Sunrise-1 ³	Sunrise-1 ³	QUILT 3.032 ⁴	NCT02773849 ⁵	Keynote-057 ^{6,7}	SWOG S1605 ⁸
Intervention	Cretostimogene	Cretostimogene + pembrolizumab	TAR-200	TAR-200 Cetrelimab	N-803+BCG	Nadofaragene	Pembrolizumab	Atezolizumab
Mechanism	Oncolytic immunotherapy	Oncolytic immunotherapy + ICI	Chemotherapy	Chemotherapy + ICI	IL-15 superagonist + BCG	Gene therapy secreting IFN	ICI	ICI
Delivery	Intravesical	Intravesical + intravenous	Intravesical	Intravesical + intravenous	Intravesical	Intravesical	Intravenous	Intravenous
Stage	Phase 3 FDA BTD*	Phase 2	Phase 2 FDA BTD	Phase 2	FDA approved April 22, 2024	FDA approved	FDA approved (CIS)	Phase 2
N	116	35	85	53	77	98	96 (A)	129
6m CR-rate	64%	82%	N/A	N/A	56%	41%	36%	27%
12m CR-rate	N/A	68%	57.4%	56.7%	45%	24%	19% (A)	N/A
Safety	0% G3-4 TRAE	14.3% G3 TRAE	9.4% G3-4 TRAE	35.8% G3-4 TRAE	16% SAE	4% G3-4 TRAE	A: 11% G3 TRAE; 2% G4 TRAE	16% G3-5 TRAE

*BTD: breakthrough therapy designation; ICI: immune-checkpoint inhibitor

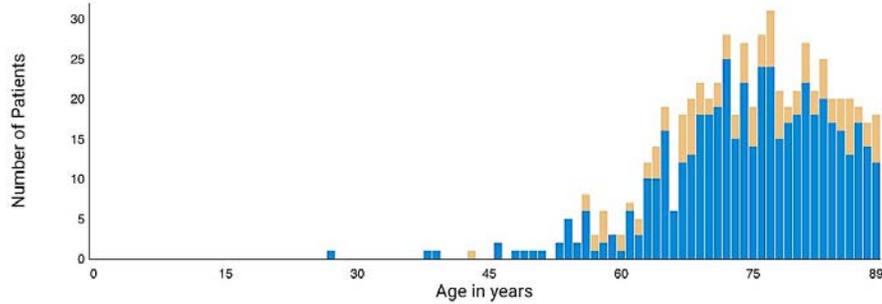
1. Tyson MD et al. AUA 2024. Abstract P2-02. 2. Li R et al. *Nat Med*. 2024 Aug;30(8):2216-2223. 3. Presented by MS van der Heijden at the European Society of Medical Oncology Congress 2024; September 13-17, 2024; Barcelona, Spain. 4. Chamie K. *NEJM Evidence*. 2022;2. 5. Boorjian SA et al. *Lancet Oncol*. 2021;22:107-117. 6. Balar AV et al. *Lancet Oncol*. 2021 Jul;22:919-930. 7. Necchi A et al. *Lancet Oncol*. 2024;S1470-2045:00178-5. 8. Black PC et al. *Eur Urol*. 2023;84:536-544.

BCG-unresponsive CIS: do we measure the IO effect?



- Thus far the results favor the intravesical monotherapy strategy
- Uncertainties related to the contribution of systemic ICI towards monotherapies

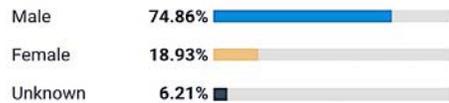
Real world U.S. data of therapeutic pathways for BCG-unresponsive HR-NMIBC



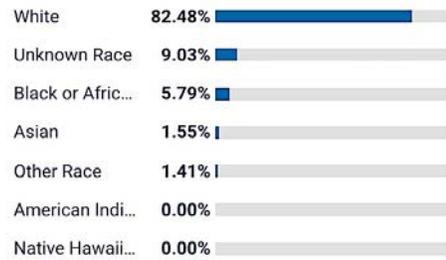
Patients 90 and Older: 60

Total Patients	Minimum Age	Maximum Age	Mean Age	Standard Deviation
708	27	90	76	10

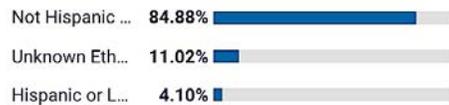
Sex



Race

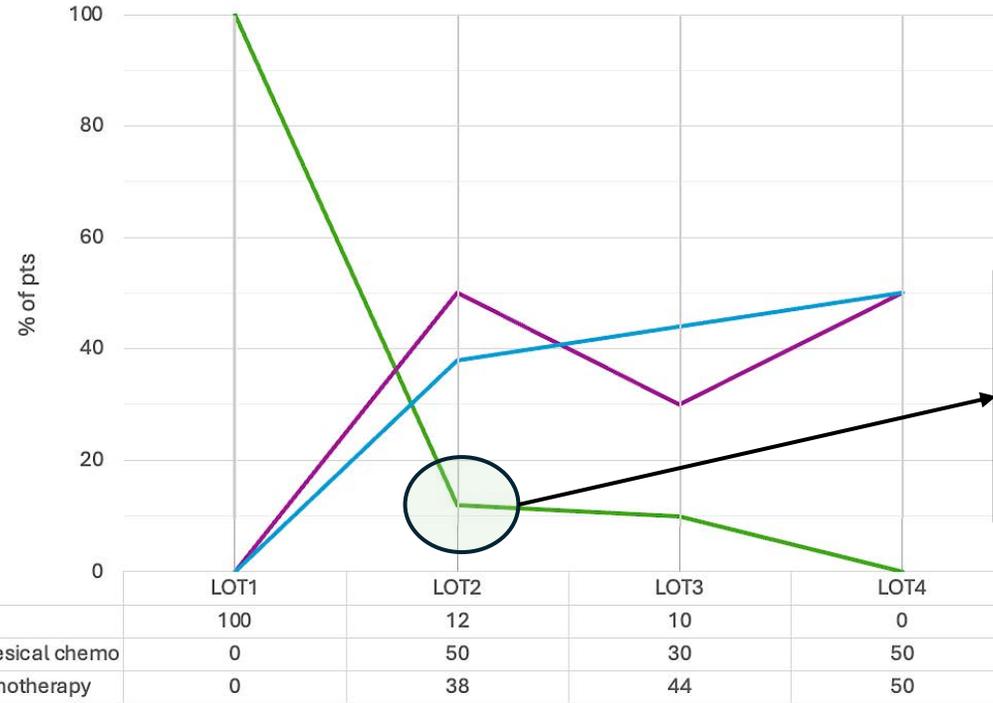


Ethnicity



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Distribution of treatment use across lines of treatments (LOT)



Myers AA, et al. *Eur Urol.* 2024:

- N=36
- 75% CR rate
- 12m-DFS: 69%
- 24m RC-free: 74%

N=708 pts

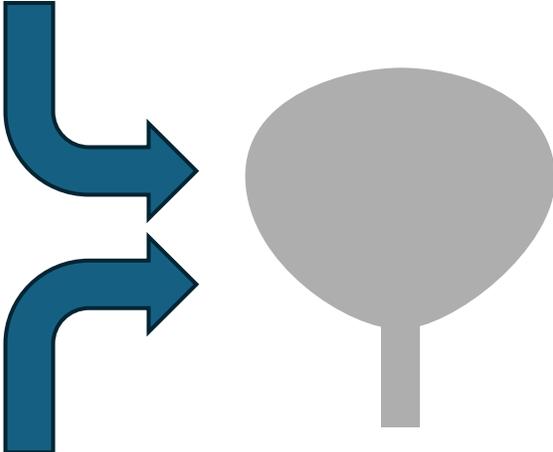
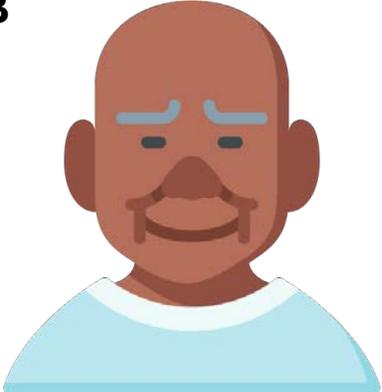
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Geographical disparities in radical cystectomy destiny

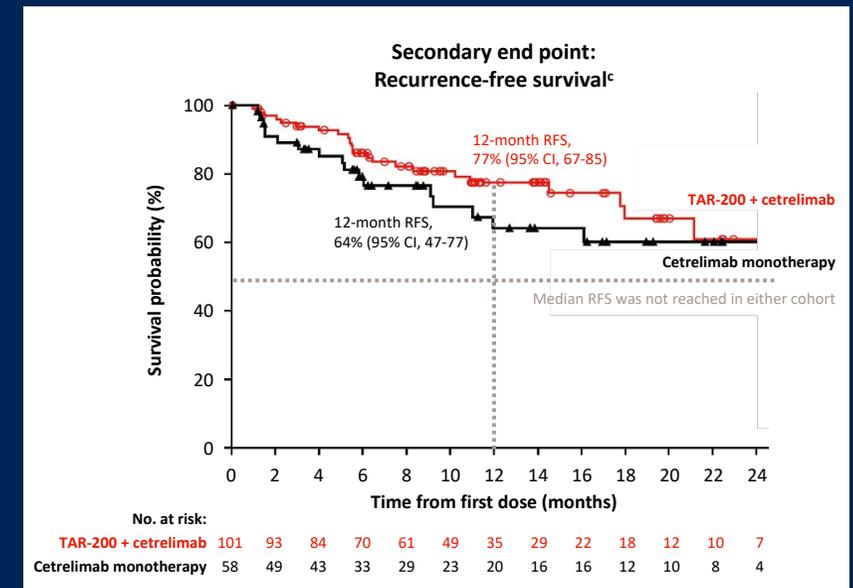
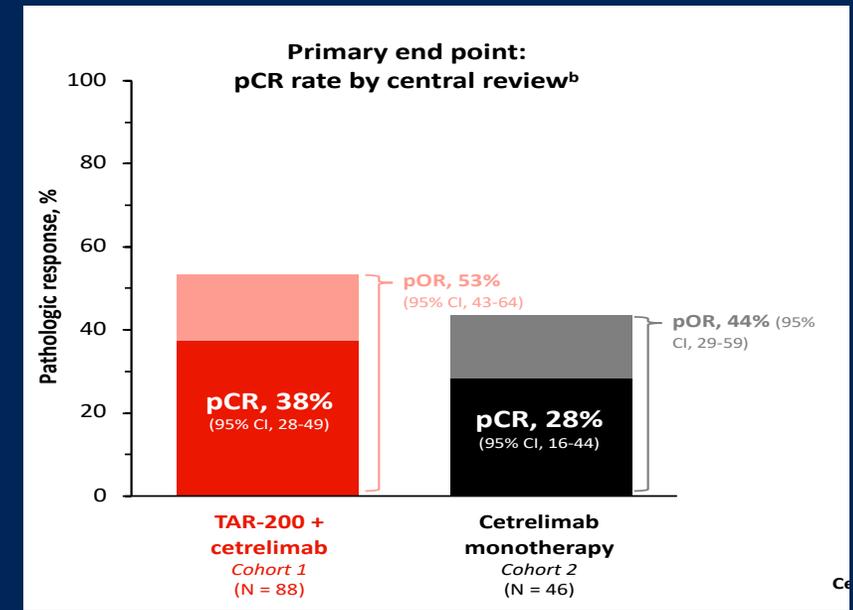
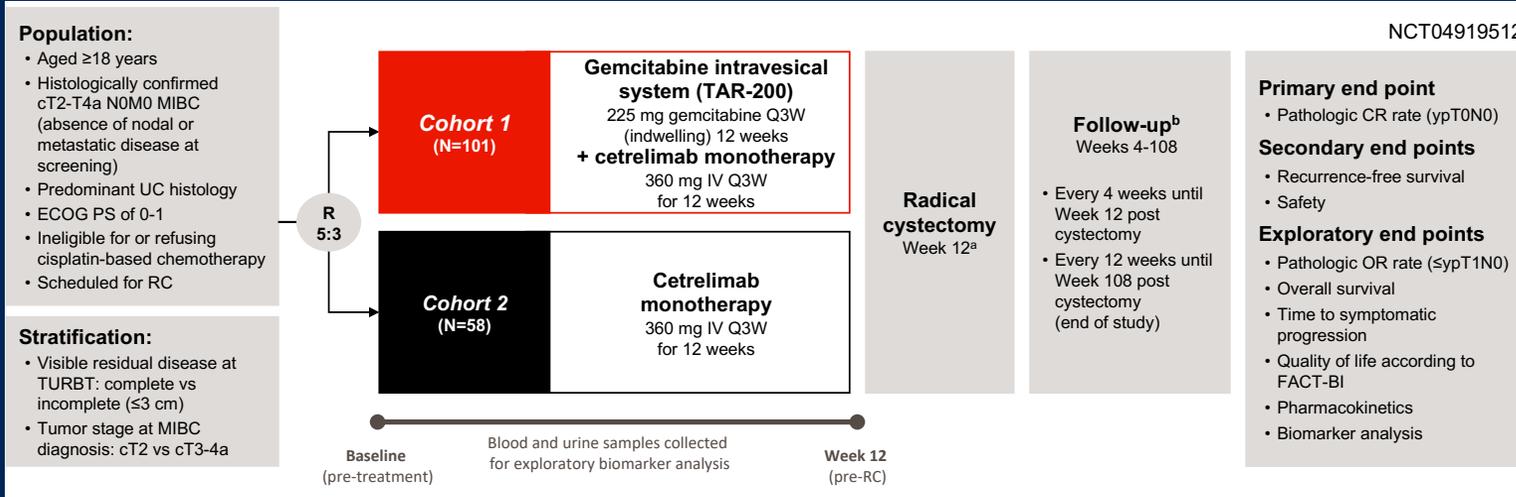
Patient A



Patient B



Sunrise-4: Primary results



Necchi A, et al. *J Clin Oncol.* 2025 Dec 3;JCO2502382. doi: 10.1200/JCO-25-02382. Online ahead of print.

Evolving treatment landscape for NMIBC

- BCG-naive HR-NMIBC: the future of systemic ICI is uncertain based on the results of phase 3 studies
- HR-NMIBC unresponsive to BCG: intravesical therapies (e.g., TAR-200, cretostimogene) are best positioned to become the new SOC
- Similar to MIBC trials, the contribution of systemic ICI towards the cCR rate is unknown
- Patients have raised the bar for therapeutic success: low rates of Grade 3-4 TRAE or long-lasting G1-2 TRAE may count
- In general, simplifying the therapeutic burden of these patients is an important goal for the ongoing research
- Geographical disparities in therapeutic access (as standard therapy or clinical trial therapy) are huge!

Second Opinion



Elizabeth R Plimack, MD, MS



Neil Love, MD

QUESTIONS FOR THE FACULTY

What would be your most likely treatment approach for this cisplatin-eligible 80-year-old man who develops MIBC and prefers to avoid cystectomy?

Based on the recent FDA approval of neoadjuvant EVP for patients with MIBC who are cisplatin ineligible, how are you integrating this regimen into your clinical practice?

Are you recommending EVP for all patients who are cisplatin ineligible? Have you employed it for patients who are cisplatin eligible? How do you determine the ideal patient to receive this regimen?

QUESTIONS FOR THE FACULTY

How would you assess the tolerability of neoadjuvant EVP?

What are the most common side effects experienced by patients who are receiving it?

Second Opinion



Thomas Powles, MBBS, MRCP, MD



Neil Love, MD

QUESTIONS FOR THE FACULTY

Which treatment would you most likely recommend for this man in his late 70s with BCG-refractory CIS? Would you proceed with cystectomy? Would you offer the TAR-200 gemcitabine intravesical system?

Now that the TAR-200 gemcitabine intravesical system has received FDA approval, how are you integrating it into patient care? Which patients do you feel are ideal candidates for this approach?

Based on available data and your clinical experience, how would you compare the tolerability of the TAR-200 gemcitabine intravesical system to that of other available systemic agents?

QUESTIONS FOR THE FACULTY

If the results of the ongoing Phase III SunRISe-3 trial evaluating TAR-200 with cetrelimab or TAR-200 alone versus BCG for patients with treatment-naïve high-risk NMIBC are positive, how do you see this approach being integrated with other available options in this setting?

Would you encourage a patient with FGFR-altered NMIBC in your own practice to enroll on a clinical trial with the TAR-210 erdafitinib intravesical delivery system? Do the early findings with TAR-210 lead you to believe that biomarker-based intravesical therapy is likely to become standard practice in the near future?

Agenda

Module 1: Optimal Use of Anti-PD-1/PD-L1 Antibodies in Non-Muscle-Invasive Bladder Cancer — Dr Friedlander

Module 2: Evolving Management of Muscle-Invasive Bladder Cancer — Dr Gupta

Module 3: Current and Future Role of Novel Intravesical Therapies in Nonmetastatic Urothelial Bladder Cancer (UBC) — Dr Necchi

Module 4: Emerging Utility of Circulating Tumor DNA Evaluation in Nonmetastatic UBC — Dr Galsky

Emerging Utility of Circulating Tumor DNA (ctDNA) Evaluation in Nonmetastatic UBC



**Mount
Sinai**

Matthew D. Galsky, MD FASCO

Lillian and Henry Stratton Professor of Medicine

Icahn School of Medicine at Mount Sinai

Director, Genitourinary Medical Oncology

Deputy Director

The Tisch Cancer Center at Mount Sinai

Overview

What do we know?



ctDNA tells us who needs adjuvant treatment

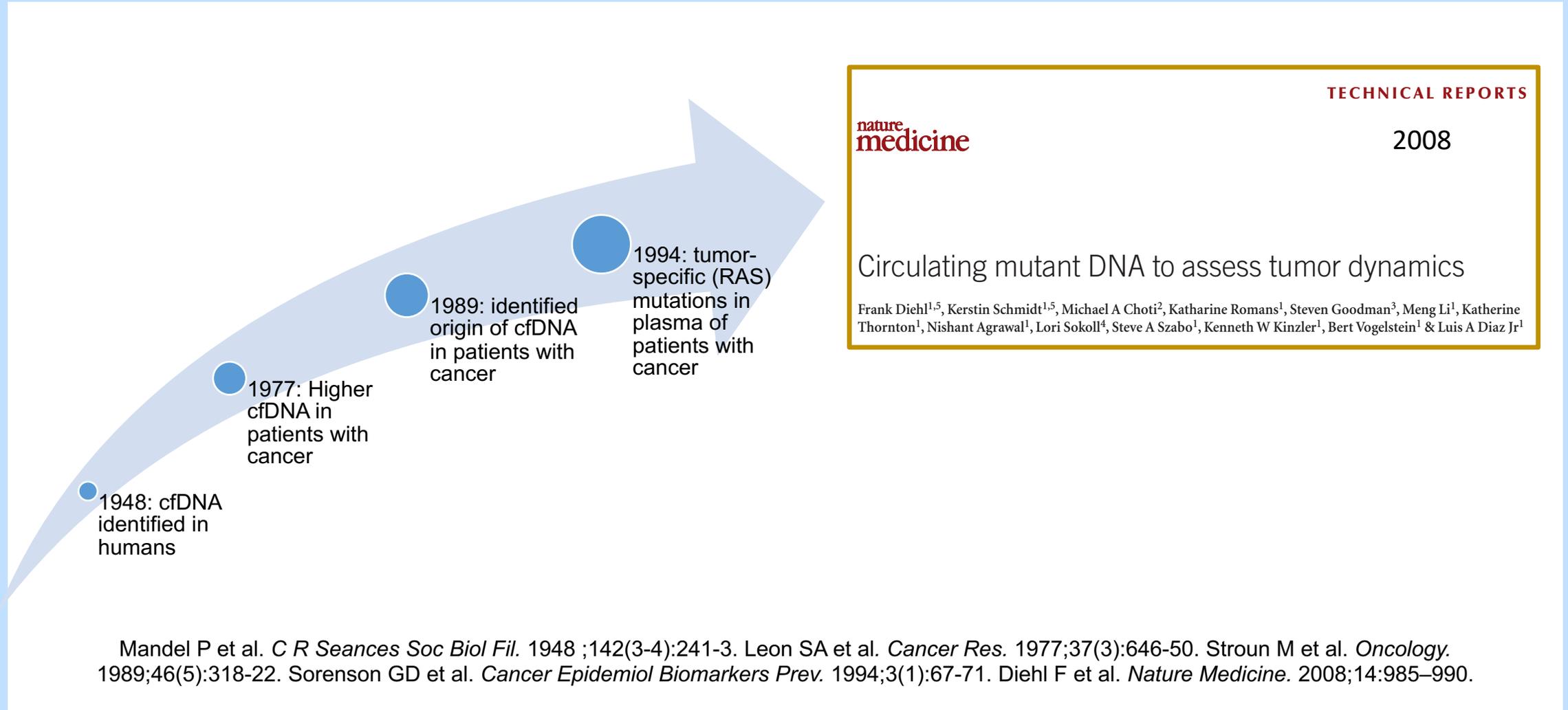


ctDNA tells us who doesn't need adjuvant treatment

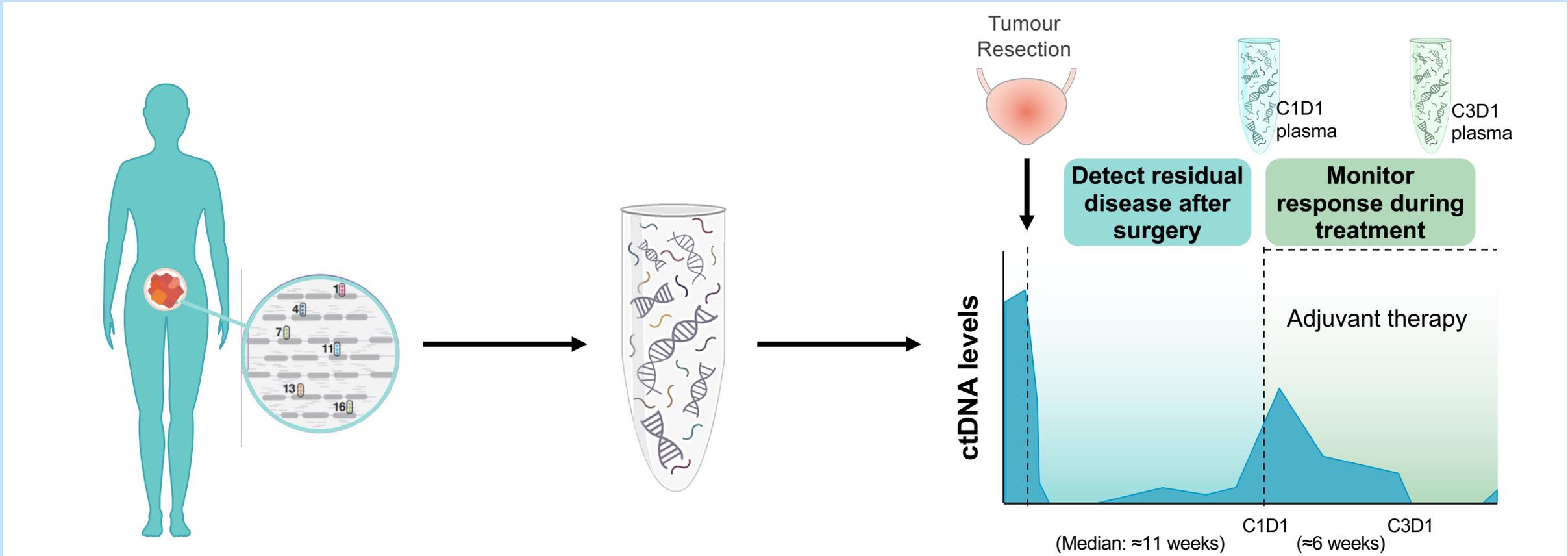


ctDNA tells us who doesn't need neoadjuvant treatment

Evolution of ctDNA as a Tool to Assess MRD



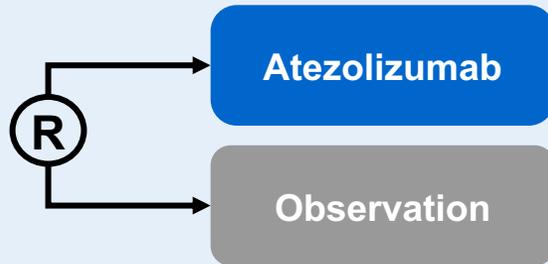
Tumor-Informed MRD Testing



Adjuvant PD-1/PD-L1 Blockade

IMvigor010

NCT02450331

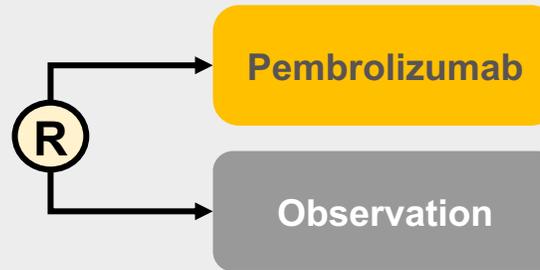


Primary endpoint
DFS

Secondary endpoints
OS, DSS, distant
metastasis-free survival,
AEs and ATAs

AMBASSADOR

NCT03244384

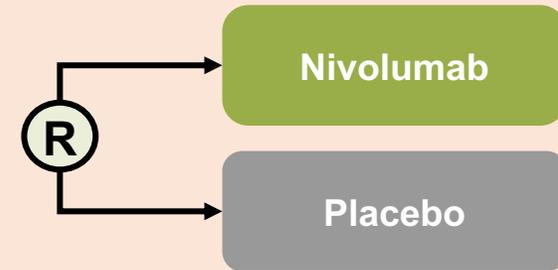


Co-primary endpoints
DFS and OS

Secondary endpoints
OS and DFS in PD-L1+
and PD-L1- patients

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NCT02632409



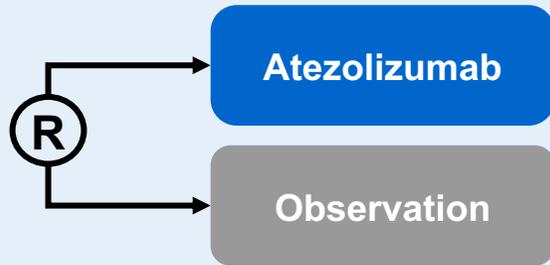
Primary endpoint
DFS in ITT and PD-L1 \geq 1%

Secondary endpoints
OS,
non-urothelial tract RFS,
disease-specific survival

Adjuvant PD-1/PD-L1 Blockade

IMvigor010

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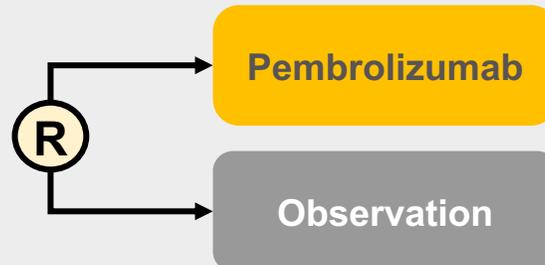


Did not meet primary endpoint

metastasis-free survival, AEs and ATAs

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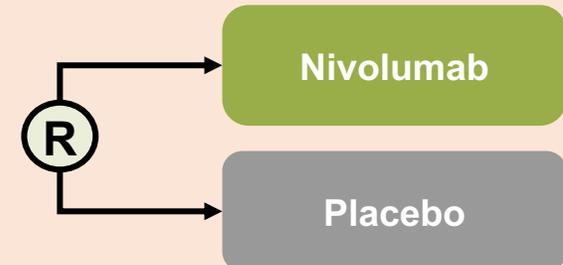


Met DFS primary endpoint

and PD-L1+ patients

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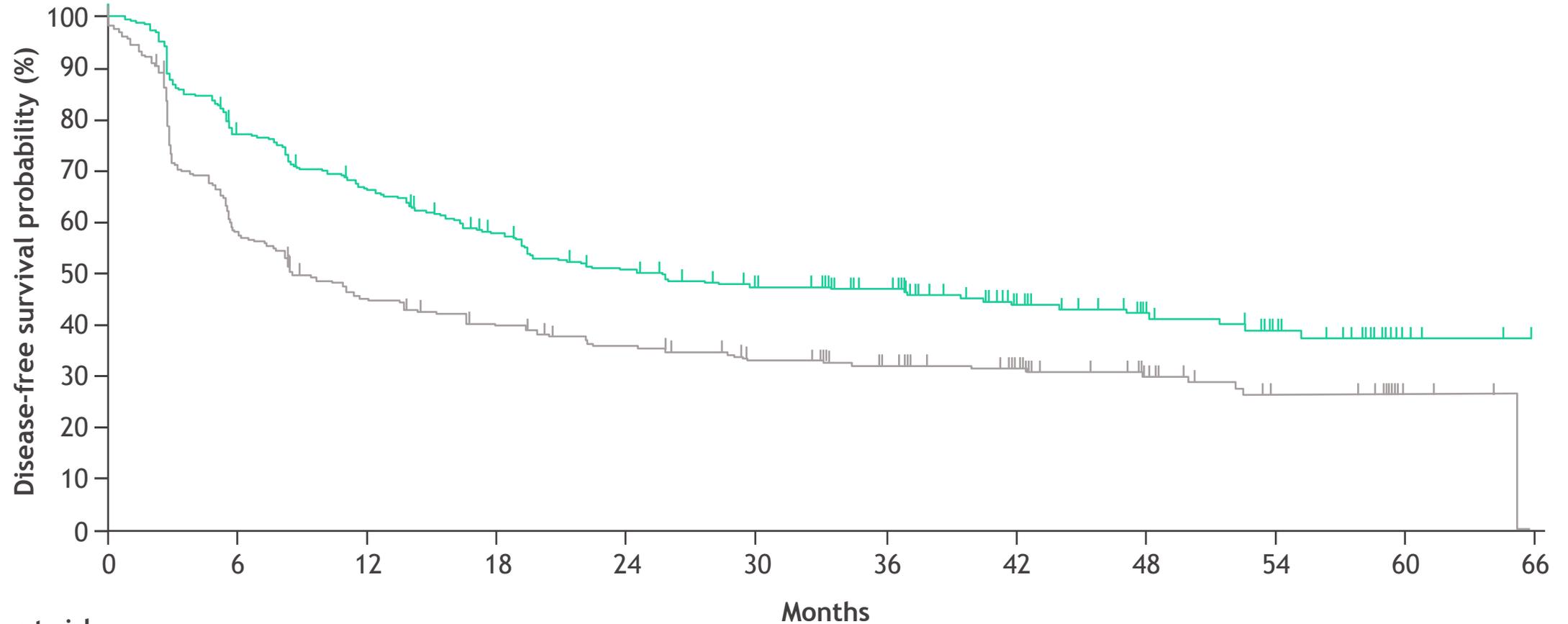
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Met DFS primary endpoint(s)

non-urothelial tract RFS, disease-specific survival

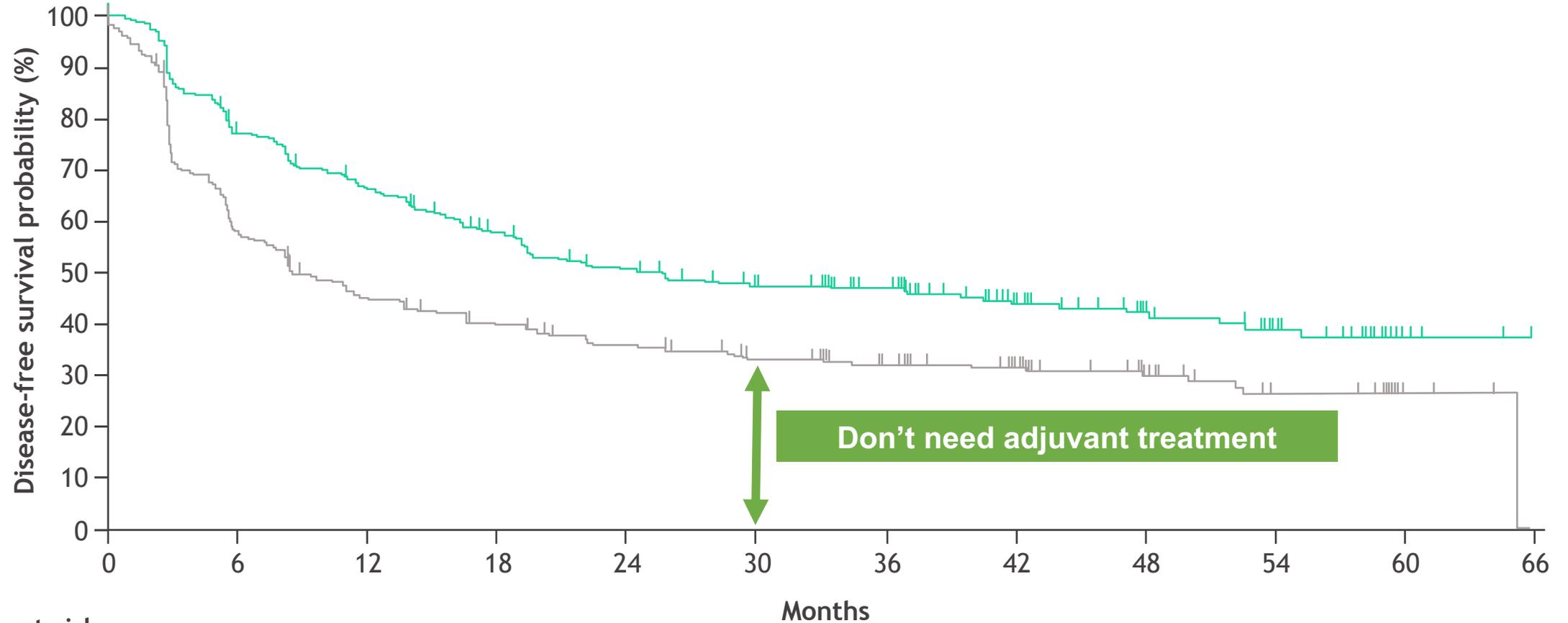
Adjuvant Nivolumab in Patients with MIBC



No. at risk

	0	6	12	18	24	30	36	42	48	54	60	66
NIVO	279	208	175	147	126	110	92	64	41	28	4	0
PBO	281	159	119	103	90	78	64	52	34	19	3	0

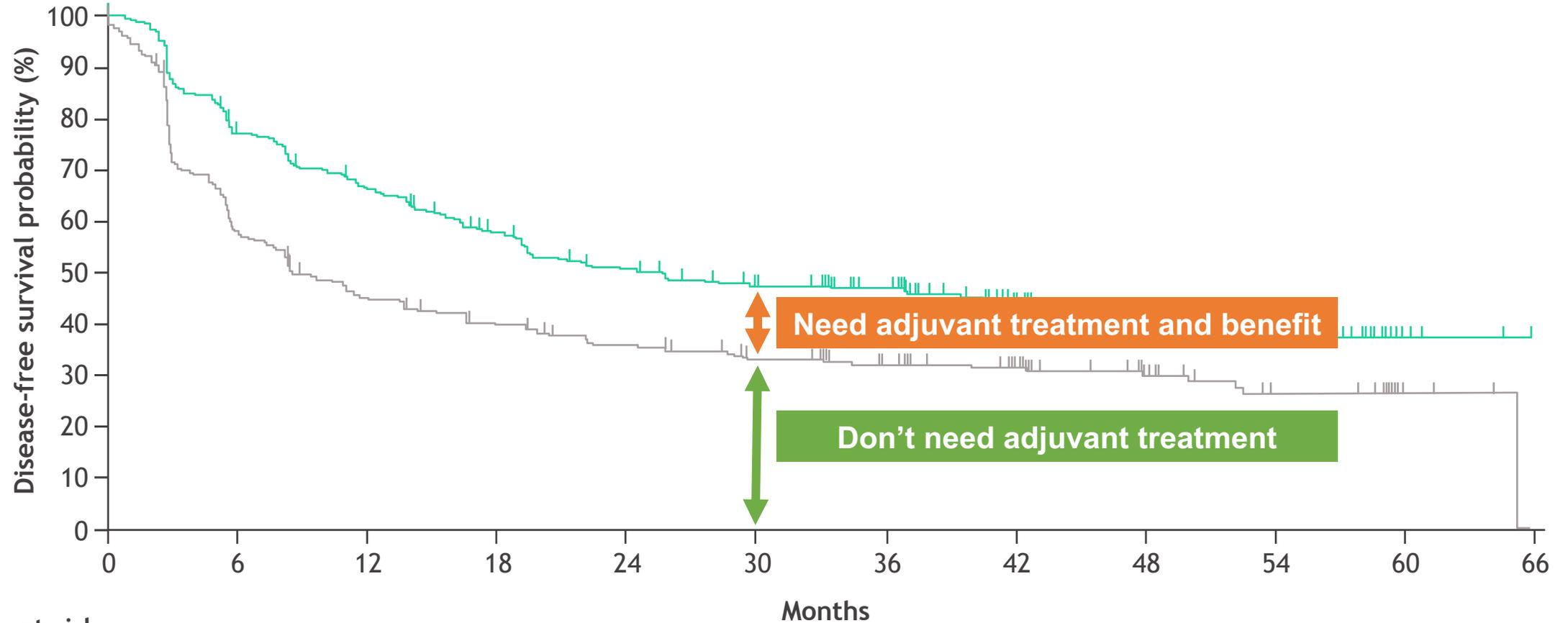
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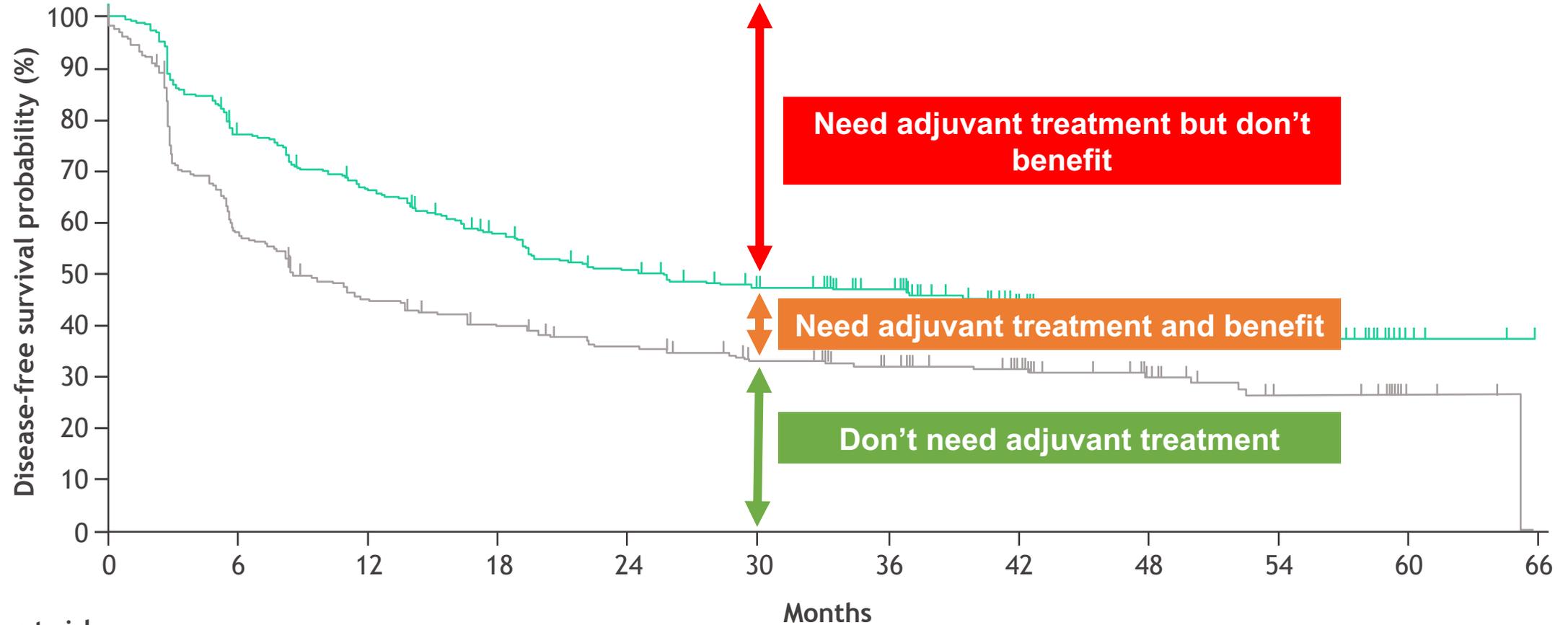
Adjuvant Nivolumab in Patients with MIBC



No. at risk

NIVO	279	208	175	147	126	110	92	64	41	28	4	0
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Adjuvant Nivolumab in Patients with MIBC



No. at risk

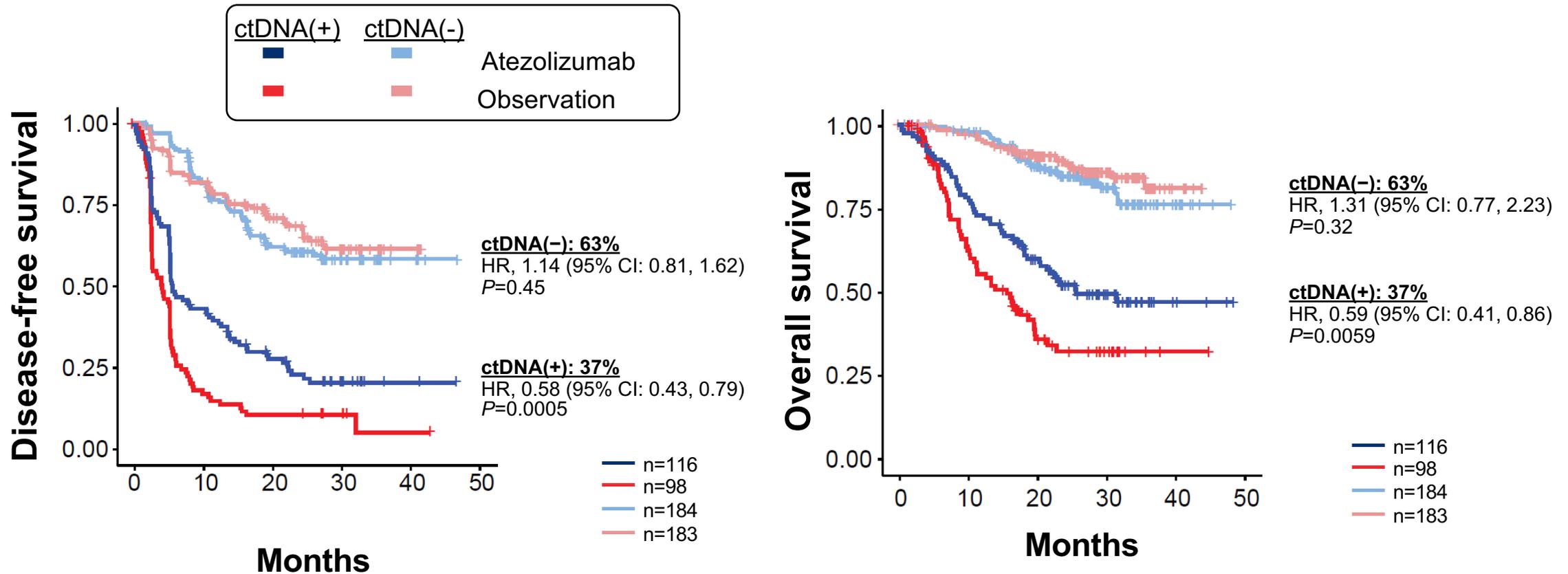
NIVO	279	208	175	147	126	110	92	64	41	28	4	0
PBO	281	159	119	103	90	78	64	52	34	19	3	0

The “Double Biomarker Dilemma”

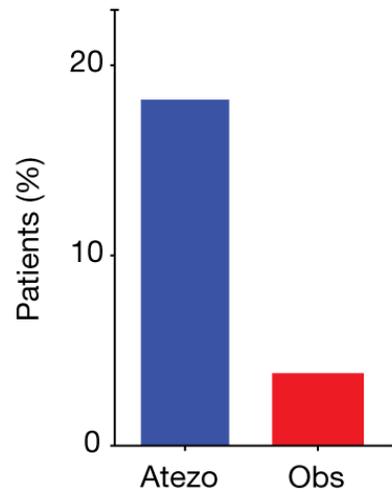
Who needs treatment?

Who benefits from treatment?

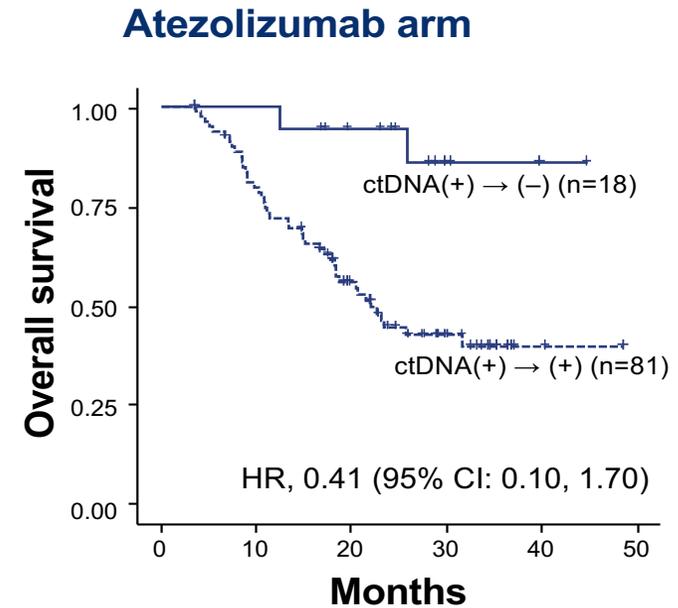
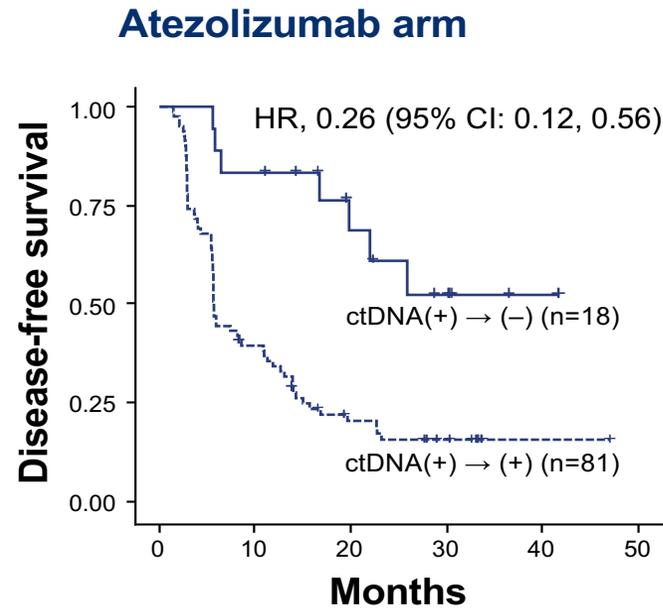
Retrospective Analysis of ctDNA in IMvigor 010



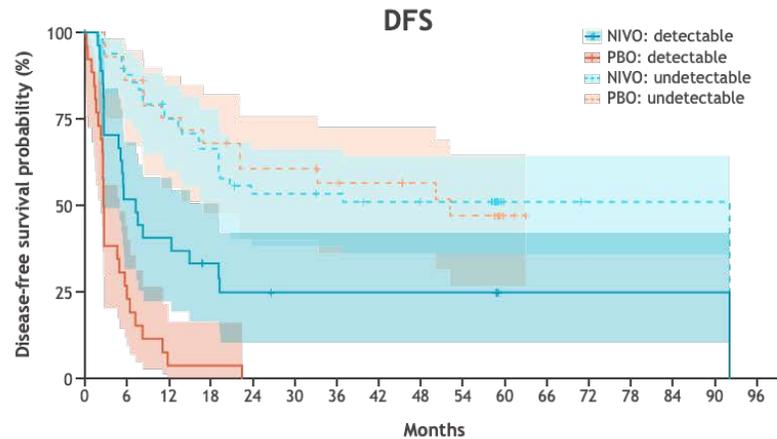
Can ctDNA-Based MRD Serve as an Intermediate Clinical Endpoint?



ctDNA+ patients at C1D1	n = 99	n = 79
Pos > Pos	81 (81.8%)	76 (96.2%)
Pos > Neg	18 (18.2%)	3 (3.8%)



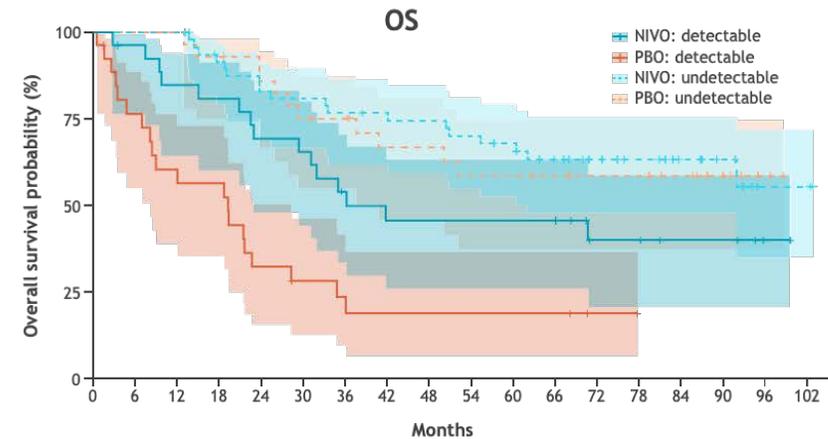
Retrospective Analysis of ctDNA in Checkmate 274



No. at risk

	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
NIVO: detectable	27	14	11	8	6	5	5	5	5	5	1	1	1	1	1	1	0
PBO: detectable	27	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
NIVO: undetectable	50	42	35	31	24	24	23	21	20	20	2	2	1	1	1	1	0
PBO: undetectable	29	25	21	19	16	16	14	13	12	10	2	0	0	0	0	0	0

ctDNA detectable	NIVO (n = 27)	PBO (n = 27)
Median DFS (95% CI), months	7.4 (2.8-19.2)	2.8 (2.4-5.0)
DFS HR (95% CI)	0.35 (0.18-0.66)	
ctDNA undetectable	NIVO (n = 50)	PBO (n = 29)
Median DFS (95% CI), months	91.9 (19.2-NE)	52.2 (16.9-NE)
DFS HR (95% CI)	0.99 (0.51-1.93)	

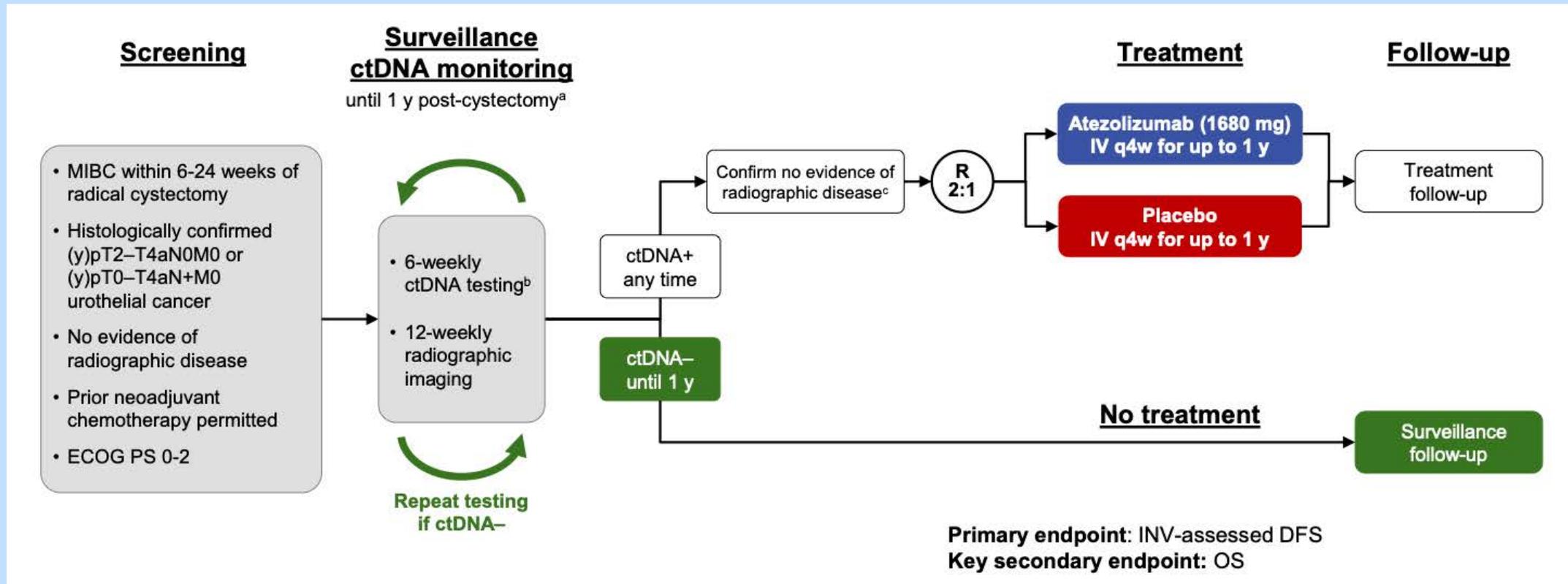


No. at risk

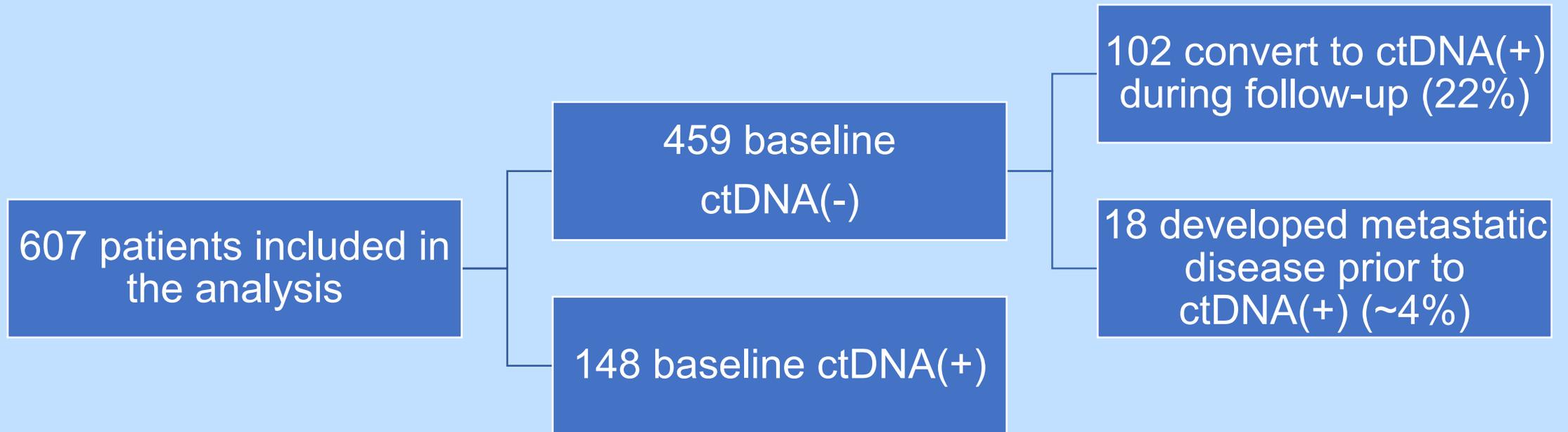
	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
NIVO: detectable	27	25	22	21	18	17	13	11	11	11	11	11	6	6	4	4	1	0
PBO: detectable	27	19	15	14	8	6	5	4	4	4	4	1	0	0	0	0	0	0
NIVO: undetectable	50	50	50	43	39	38	36	35	34	32	30	24	20	17	13	9	2	2
PBO: undetectable	29	29	29	27	24	21	20	16	16	14	14	13	12	12	10	5	2	0

ctDNA detectable	NIVO (n = 27)	PBO (n = 27)
Median OS (95% CI), months	36.2 (23.0-NE)	19.3 (8.1-28.2)
OS HR (95% CI)	0.41 (0.20-0.83)	
ctDNA undetectable	NIVO (n = 50)	PBO (n = 29)
Median OS (95% CI), months	NR (62.0-NE)	NR (40.7-NE)
OS HR (95% CI)	0.87 (0.41-1.84)	

IMvigor 011: Study Schema



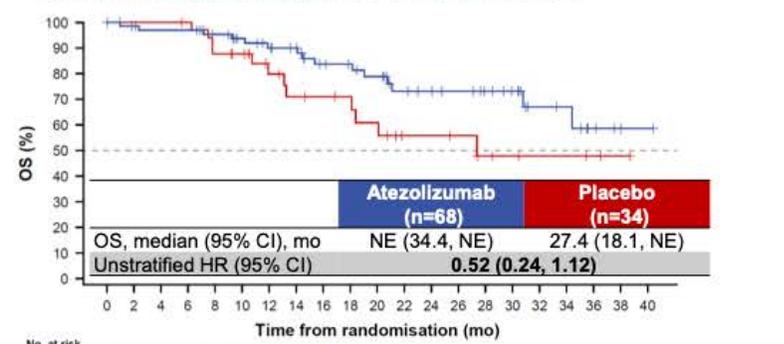
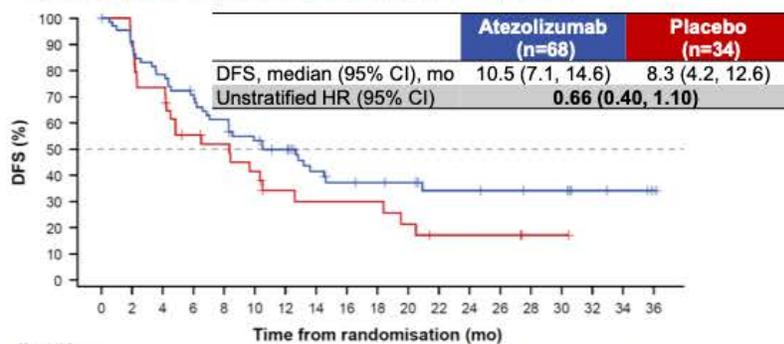
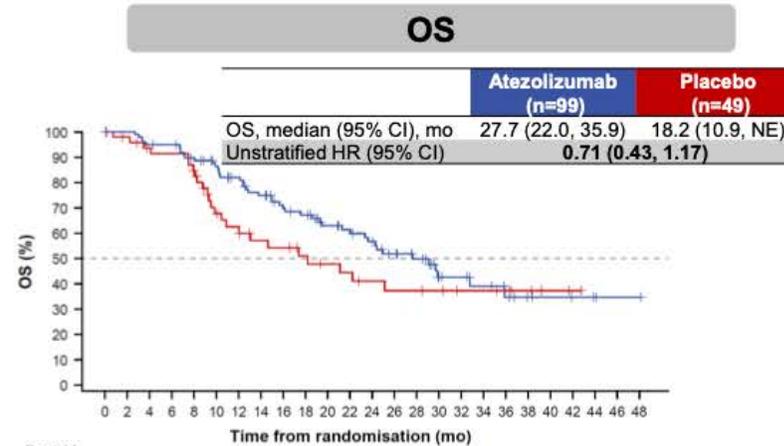
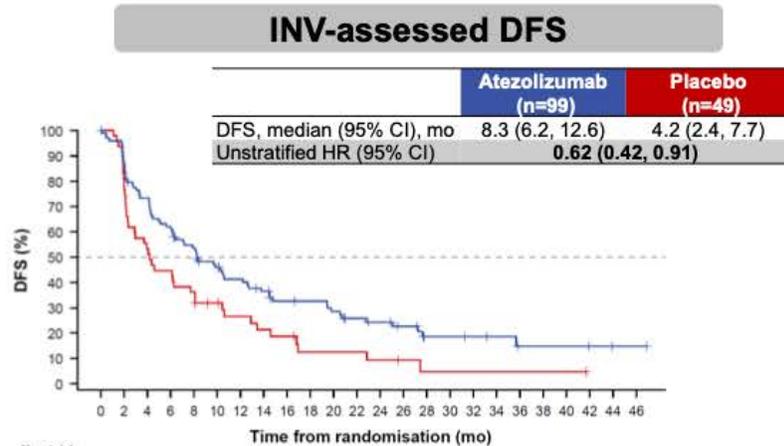
IMvigor 011: ctDNA kinetics



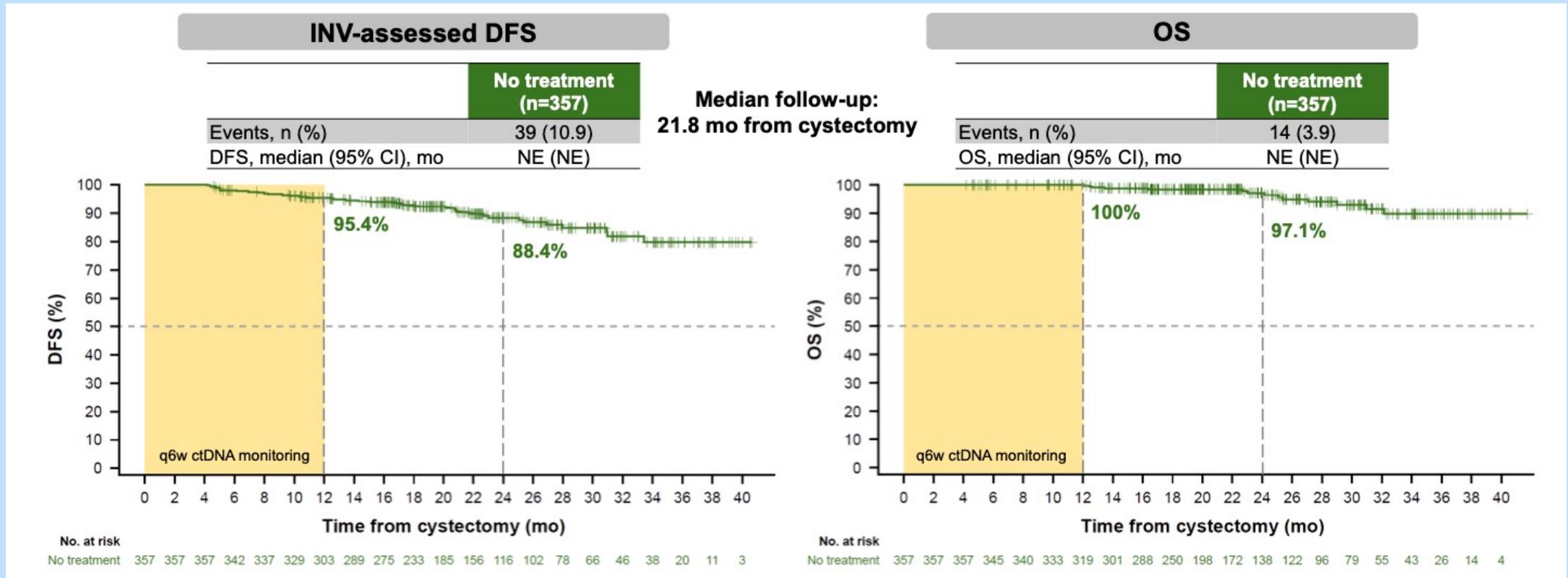
IMvigor 011: Outcomes in patients who tested ctDNA(+)

ctDNA+ at initial test
(148/250; 59.2%)

ctDNA+ at subsequent test
(102/250; 40.8%)



IMvigor 011: Outcomes in patients who tested persistently ctDNA(-)

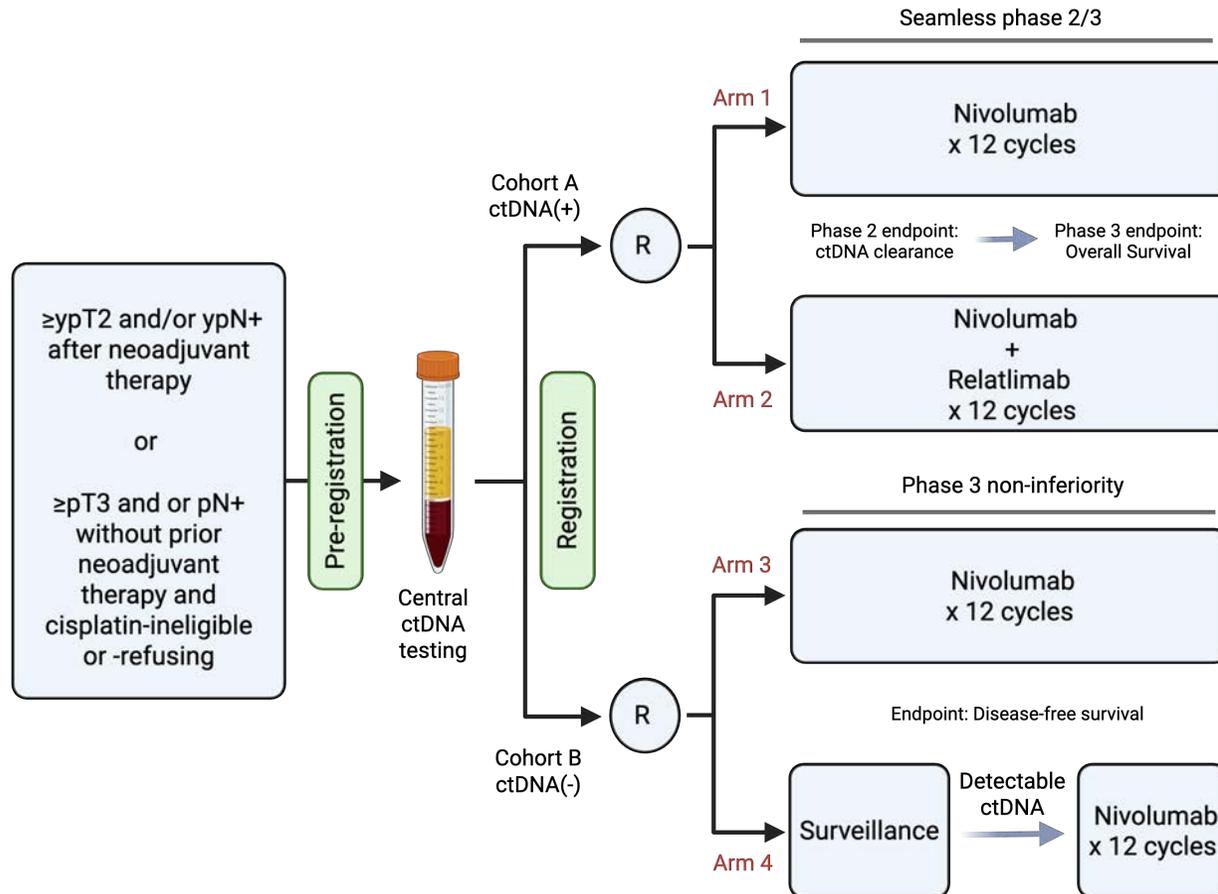


IMvigor 011: Take Home

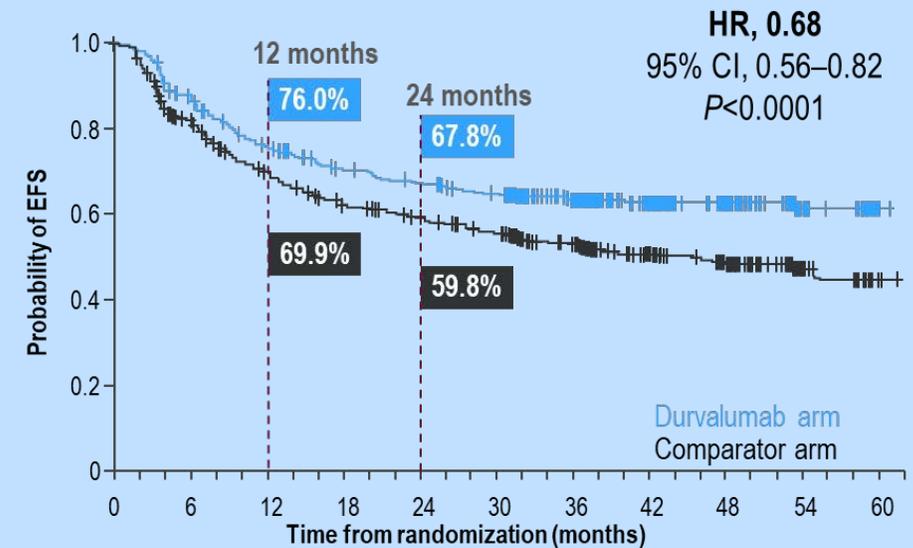
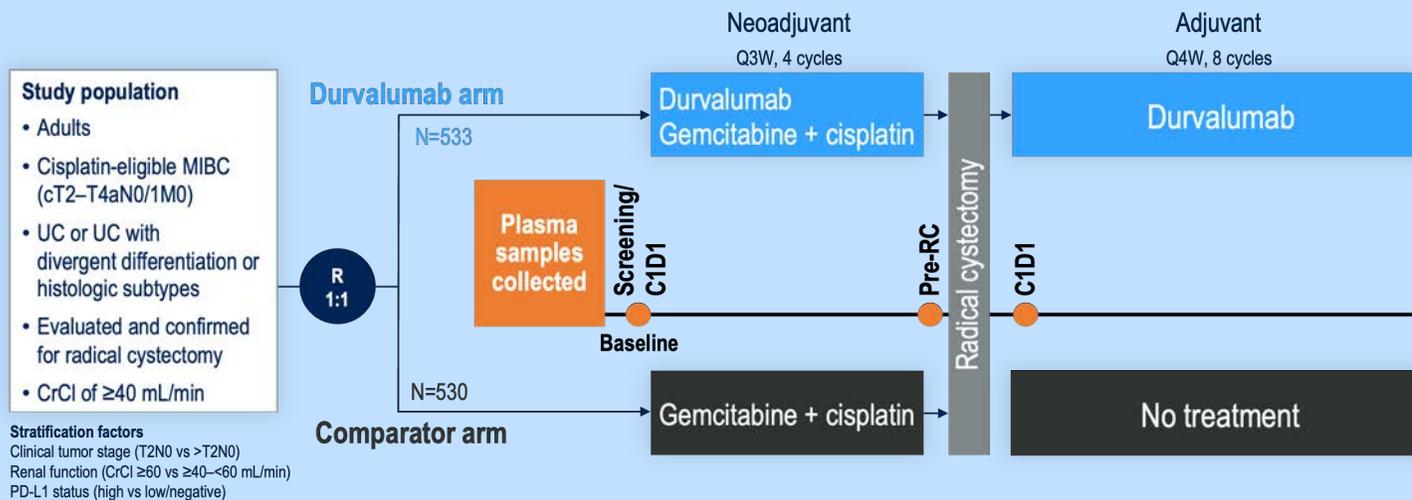
- ✓ Patients with ctDNA(+) assays after radical surgery for urothelial cancer need adjuvant treatment.
- ✓ Molecular recurrence is a new clinical disease state that can be meaningfully intervened upon with immune checkpoint blockade.
- ✓ Patients with serial ctDNA(-) assays *overall* have an excellent prognosis (conditional probability) – one does not know that the assay will be serially negative at the time standard adjuvant decisions need to be made.

Whether treatment upon molecular recurrence is non-inferior to standard adjuvant therapy was not tested...and has not yet been answered.

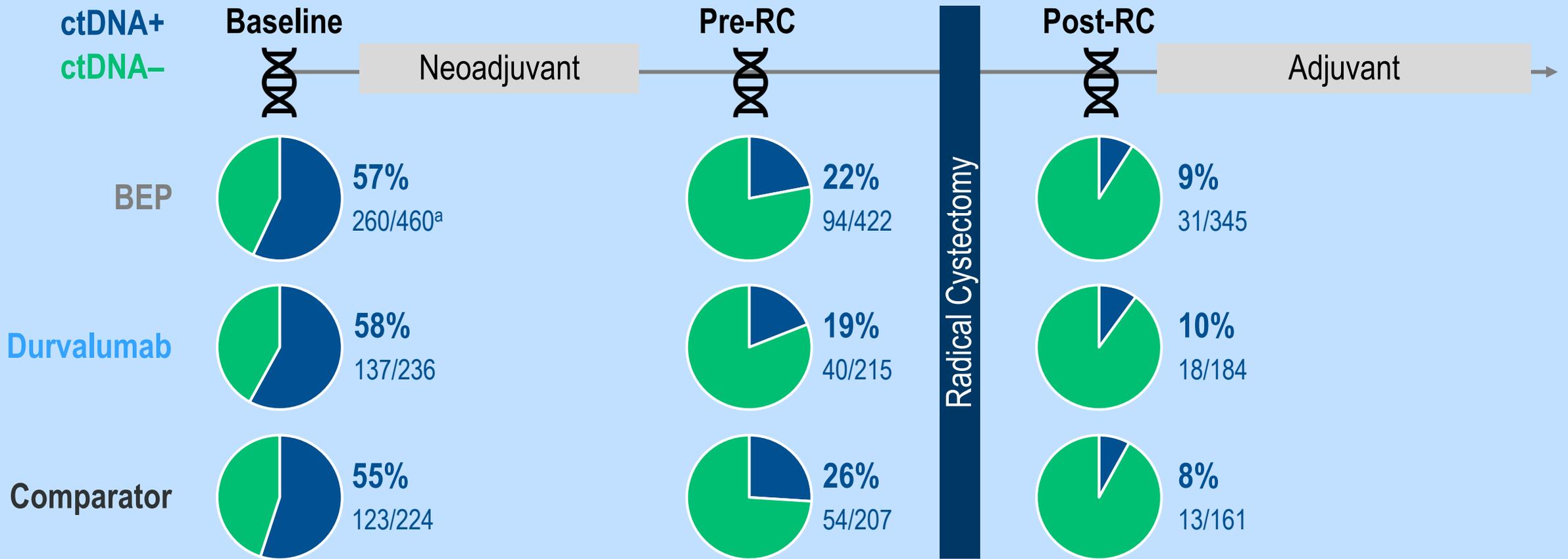
Alliance A032103: MODERN



NIAGARA demonstrated an improvement in outcomes adding PD-L1 blockade to neoadjuvant/adjutant therapy



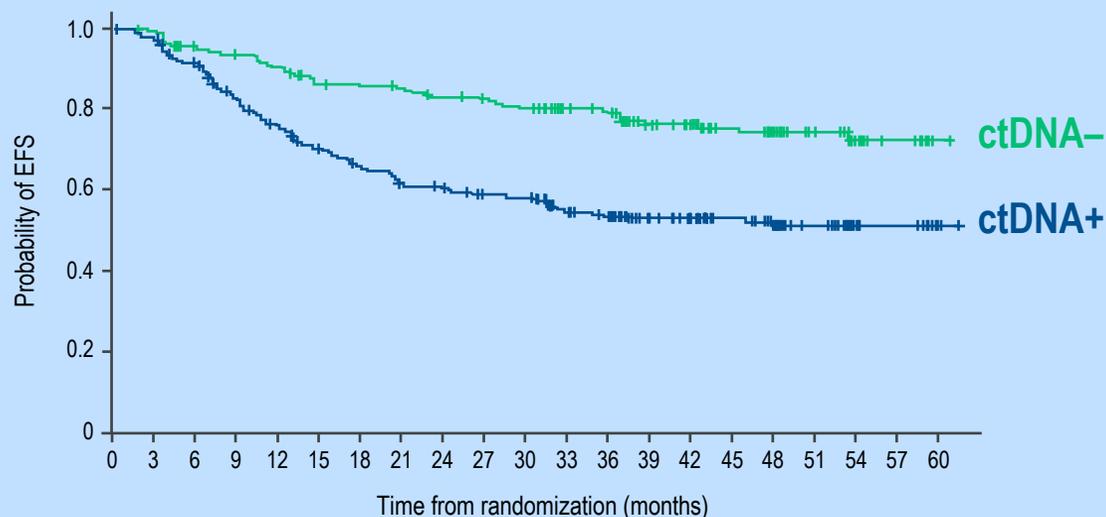
ctDNA detection rates in NIAGARA



Powles T et al. ASCO 2025. Abstract 4503.

Prognostic impact of baseline ctDNA in NIAGARA

EFS (combined arms)

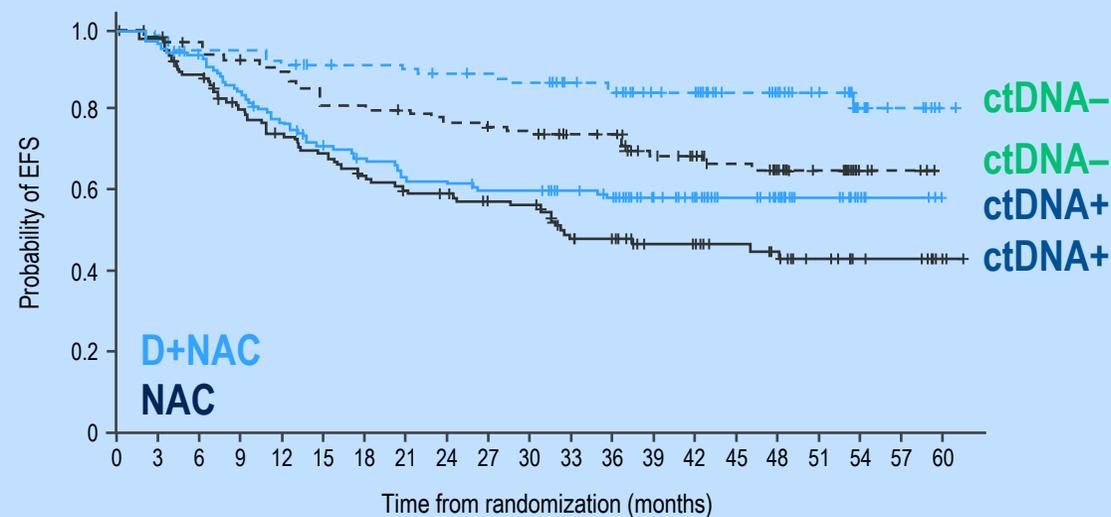


No. of patients at risk

ctDNA-	200	197	185	180	174	162	160	158	153	150	146	131	127	104	95	76	60	48	20	10	1
ctDNA+	260	253	233	206	188	170	156	145	143	135	134	114	105	83	72	61	47	33	16	13	2

ctDNA- vs ctDNA+ HR, 0.42 (95% CI, 0.30–0.60)

EFS (per arm)



No. of patients at risk

ctDNA- D+NAC	99	99	91	91	88	84	83	82	80	79	77	69	66	55	51	39	35	29	14	7	1
ctDNA- NAC	101	98	94	89	86	78	77	76	73	71	69	62	61	49	44	37	25	19	6	3	0
ctDNA+ D+NAC	137	133	126	113	103	91	85	79	78	75	75	69	63	49	42	35	26	17	7	5	0
ctDNA+ NAC	123	120	107	93	85	79	71	66	65	60	59	45	42	34	30	26	21	16	9	8	2

ctDNA-: D+NAC vs NAC HR, 0.45 (95% CI, 0.24–0.84)

ctDNA+: D+NAC vs NAC HR, 0.73 (95% CI, 0.51–1.05)

Durvalumab arm = D+NAC; Comparator arm = NAC

Conclusions

What do we know?

- ✅ ctDNA tells us who needs adjuvant treatment
- ⚠️ ctDNA tells us who doesn't need adjuvant treatment
- 🚫 ctDNA tells us who doesn't need neoadjuvant treatment

Second Opinion



Elizabeth R Plimack, MD, MS



Neil Love, MD

QUESTIONS FOR THE FACULTY

What treatment approach would you most likely recommend for a patient who presented with T4 disease and a 2-cm pelvic lymph node and attained a CR on imaging after 6 cycles of EVP?

Would you refer for surgery? Or would you consider this patient to have metastatic disease and use ctDNA to monitor continued response and potentially avoid surgery?

QUESTIONS FOR THE FACULTY

How would you compare the sensitivity of serial ctDNA monitoring to that of radiological assessments in detecting disease progression?

If a patient with no clinical or radiologic evidence of relapse were found to have a positive ctDNA test, would it change your approach to monitoring or management in any way?

Second Opinion



Thomas Powles, MBBS, MRCP, MD



Neil Love, MD

QUESTIONS FOR THE FACULTY

How would you approach the management of this 72-year-old man who received neoadjuvant chemoimmunotherapy and was found to have a positive ctDNA analysis prior to cystectomy and a negative ctDNA result after surgery?

Would you draw from the IMvigor011 results and be more inclined to forgo the use of adjuvant immune checkpoint inhibitor therapy? If so, how often would you repeat ctDNA testing?

QUESTIONS FOR THE FACULTY

Ultimately, do you believe ctDNA will be used to inform treatment decision-making for patients with nonmetastatic UBC in routine clinical practice in the near future?

Outside of a clinical trial, should medical oncologists in community-based practice be ordering these assays for their own patients and acting on the results?

Second Opinion: Clinical Investigators Provide Perspectives on the Future Role of AKT Inhibition in the Management of Prostate Cancer

*A CME Symposium Held Adjunct to the
2026 ASCO® Genitourinary Cancers Symposium*

Friday, February 27, 2026

6:00 PM – 7:30 PM PT (9:00 PM – 10:30 PM ET)

Faculty

Professor Karim Fizazi, MD, PhD

Daniel George, MD

Moderator

Elisabeth I Heath, MD

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Your feedback is very important to us.**

Please complete the survey currently available via the corresponding QR code on the printed handout for attendees in the room and on Zoom for those attending virtually. The survey will remain open up to 5 minutes after the meeting ends.

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