

Debate: Neoadjuvant/Adjuvant Enfortumab Vedotin + Pembrolizumab (EVP) vs Cisplatin Based Therapy in MIBC

*The question is not whether EVP works...
It's if it should replace cisplatin-based therapy for
everyone?*

Jordan Ciuro MD

DDHO 2026

DISCLOSURE: LACK OF INSIDER INFORMATION



Dr. Brown has been at Emory from fellowship and is now faculty...



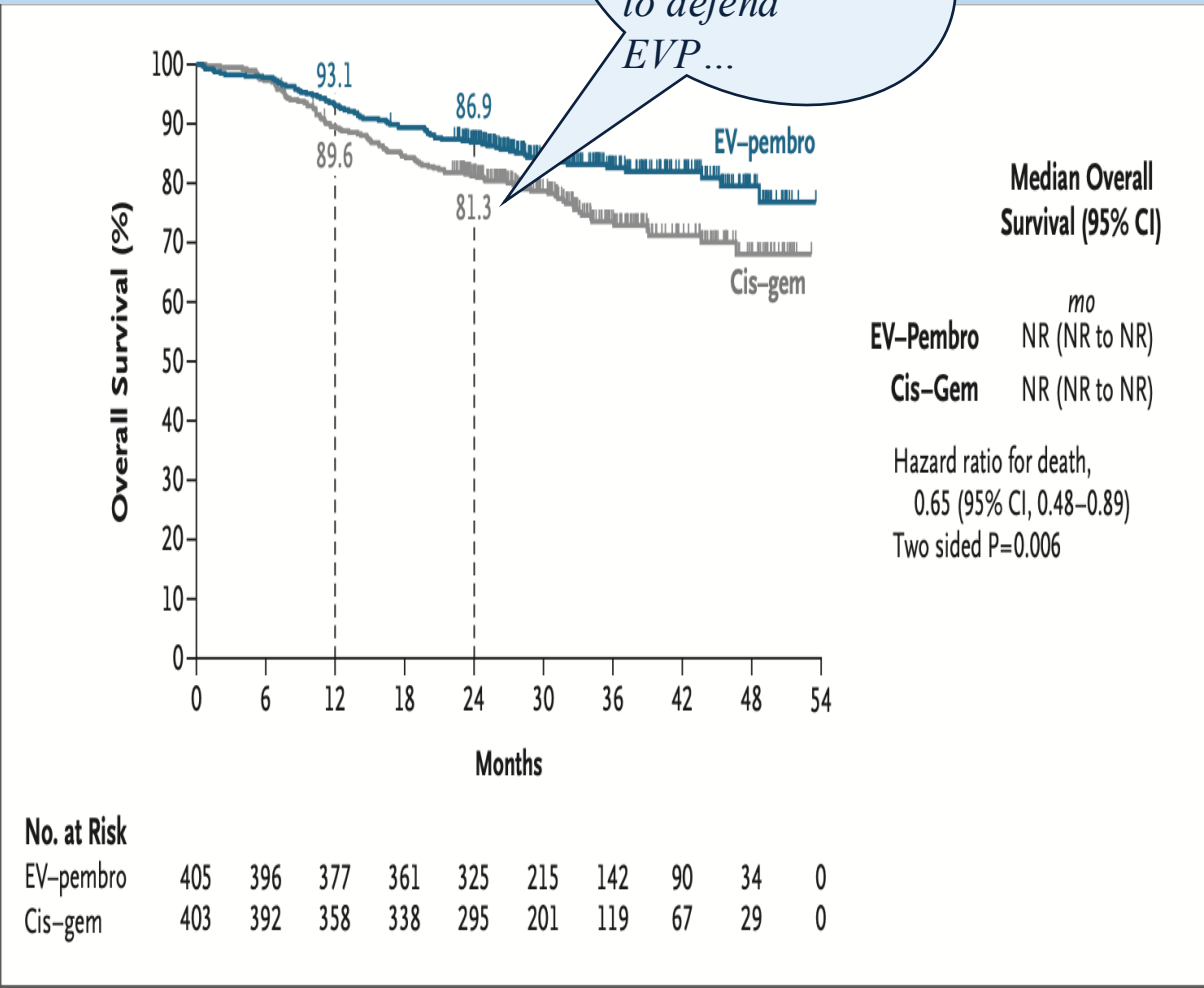
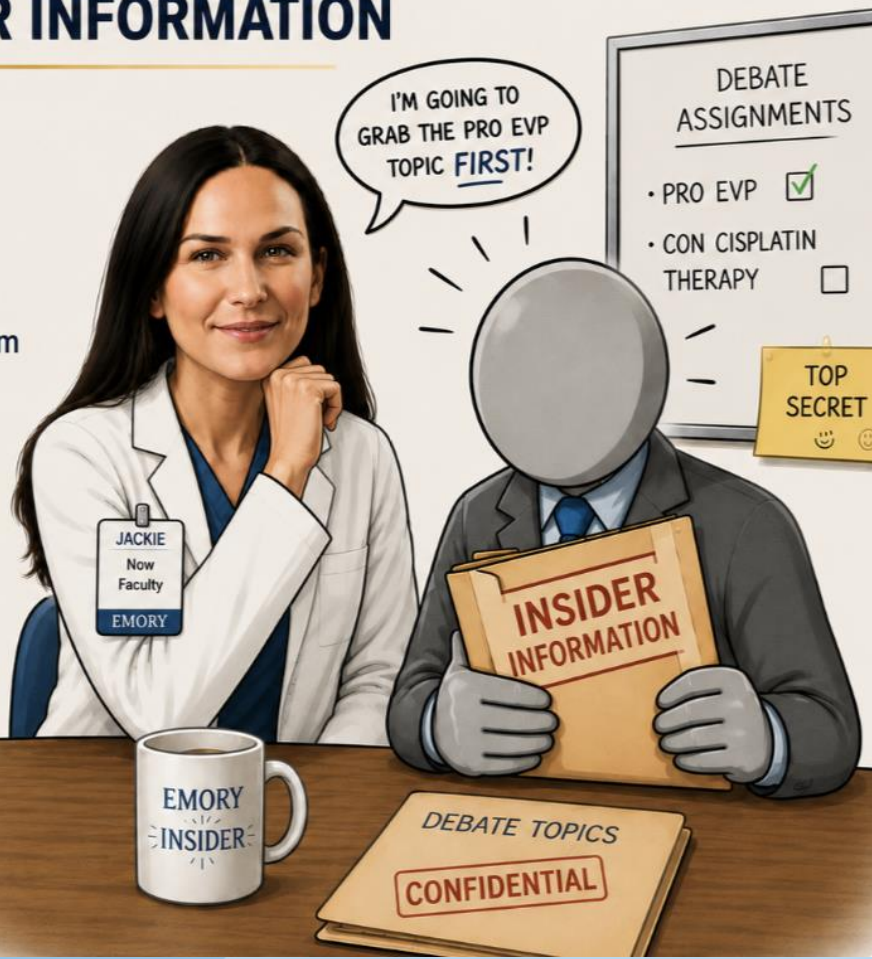
Interesting that she was assigned the pro EVP arm



Suspicious...



Unlike Dr. Brown, I received no advance notice of the debate topics.



Things we can agree on...

**EVP is highly
active in MIBC**



**EVP has become the
preferred regimen
for most patients
with MIBC**



**NIAGARA
regimen with
cisplatin therapy
STILL matters**



Specifically, today I am going to argue 5 things:

- 1. We still don't have the right head-to-head trial comparison**
- 2. The patients enrolled in these trials were different**
- 3. Tumor biology**
- 4. Toxicity**
- 5. Treatment sequencing**

Current NCCN MIBC Landscape

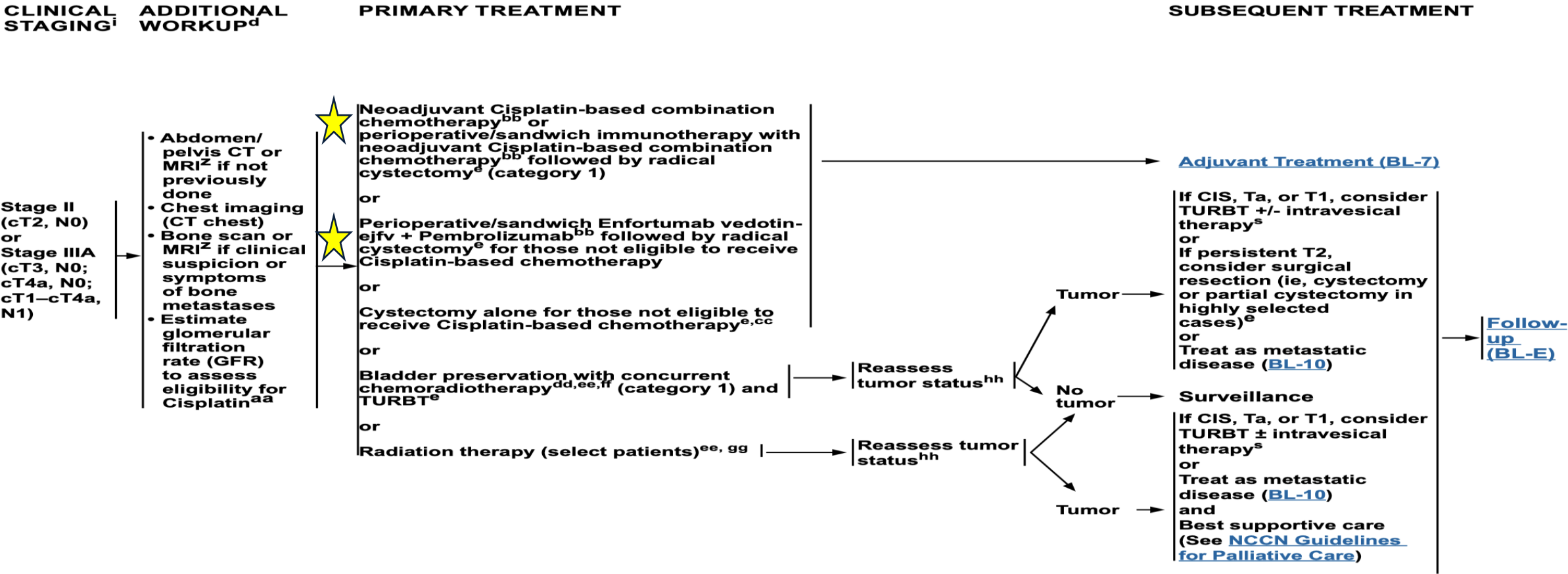


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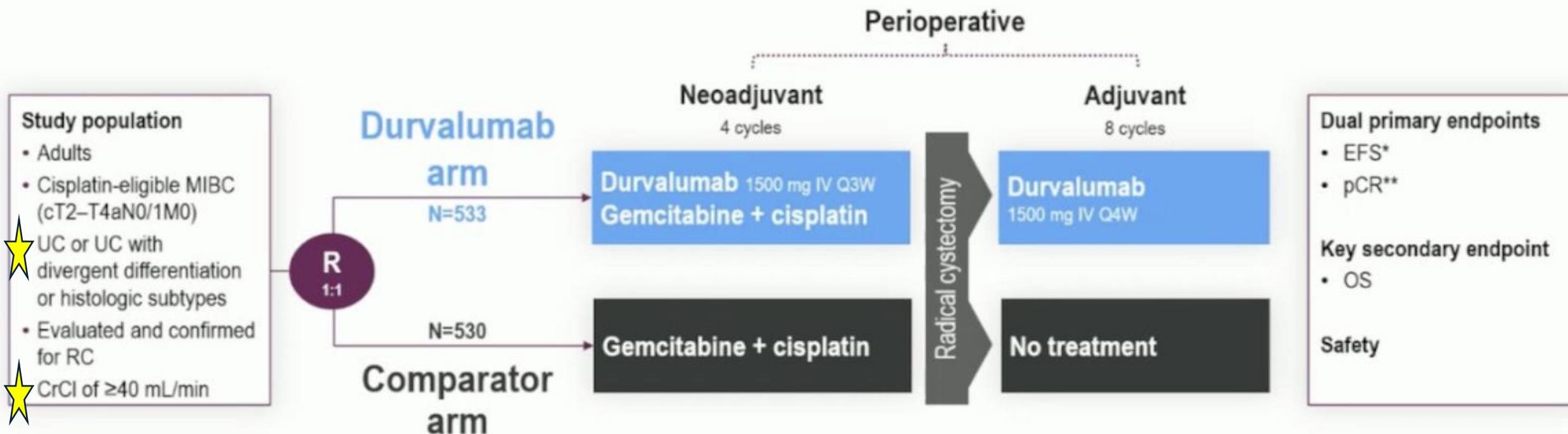
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NCCN Guidelines Version 1.2026 Muscle-Invasive Bladder Cancer

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NIAGARA: Study Design



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 was defined as:

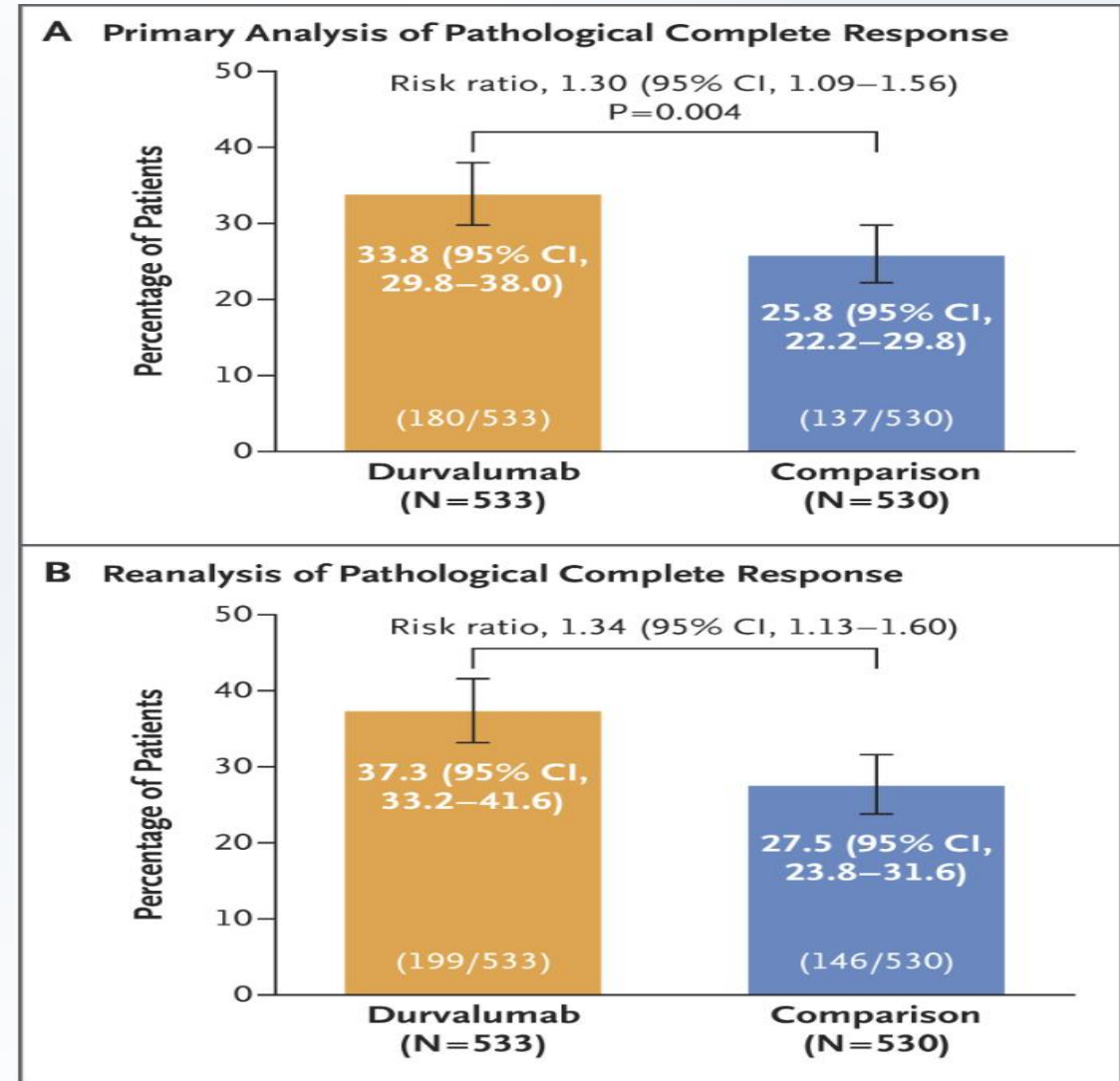
- Progressive disease that precluded RC
- Recurrence after RC
- Date of expected surgery in patients who did not undergo RC
- Death from any cause

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

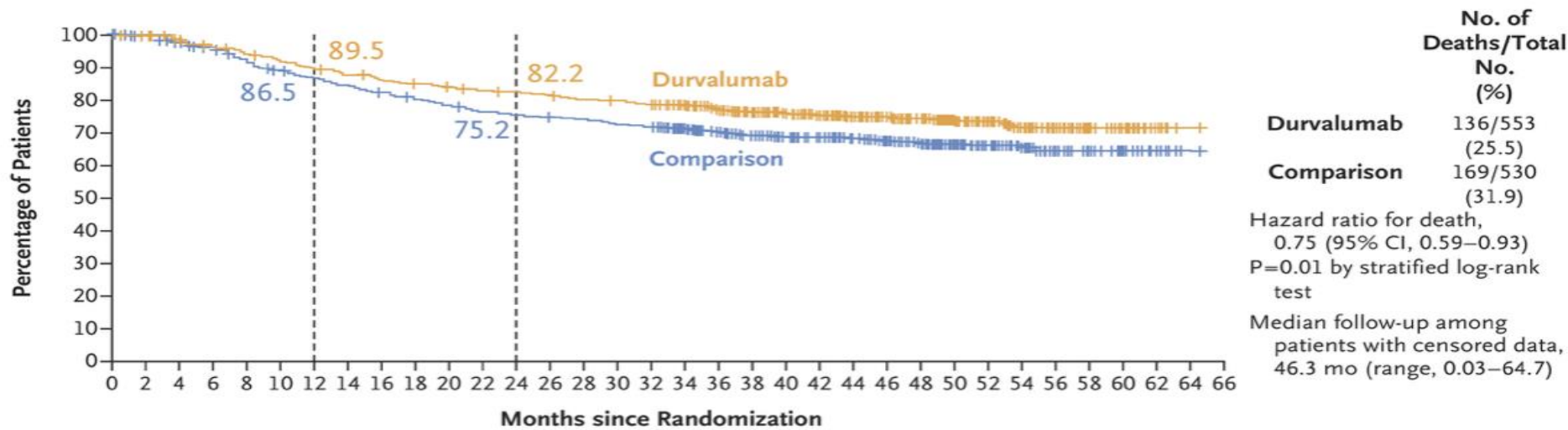
Why NIAGARA Changed Practice?

Statistically significant and clinically meaningful improvement in:

- EFS: HR 0.68 CI 0.56-0.82 $p < 0.0001$
- OS: HR 0.75 CI 0.59-0.93 $p = 0.0106$
- 10% improvement in pathologic complete response rates
- No delay to surgery



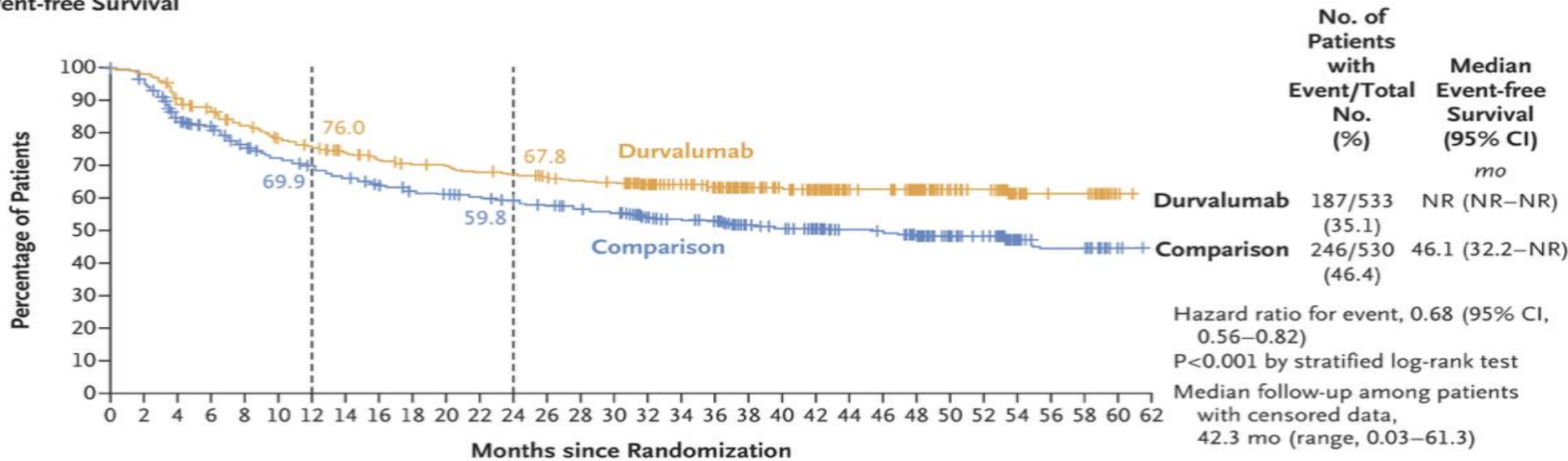
A Overall Survival



No. at Risk

Durvalumab	533	517	492	468	446	434	423	410	400	349	295	238	182	125	96	68	34	21	7	1	0
Comparison	530	507	467	438	413	392	378	368	358	311	259	215	174	113	90	60	38	21	10	2	0

A Event-free Survival



No. at Risk

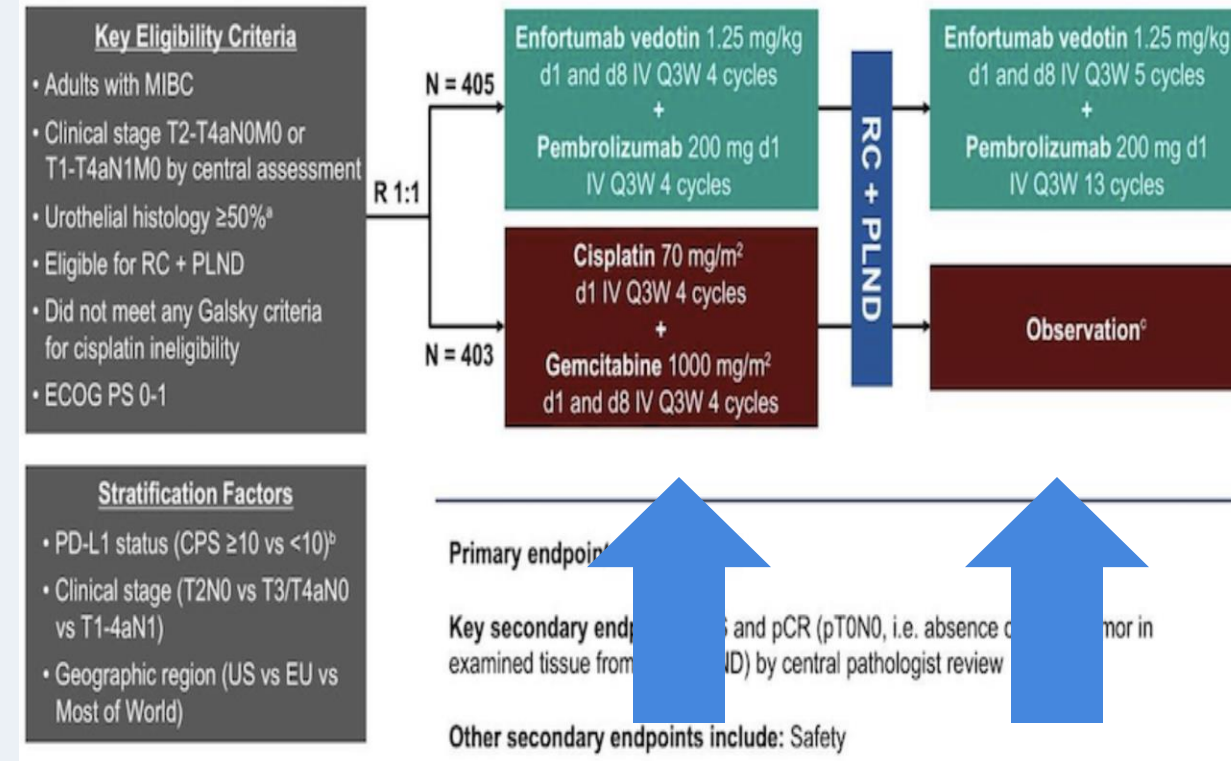
Durvalumab	533	475	424	386	356	344	330	315	282	255	202	141	115	86	81	32	20	20	1	0
Comparison	530	437	381	343	313	296	281	264	228	214	172	132	94	69	62	24	18	16	2	0

The Missing Head-to-Head Trial...

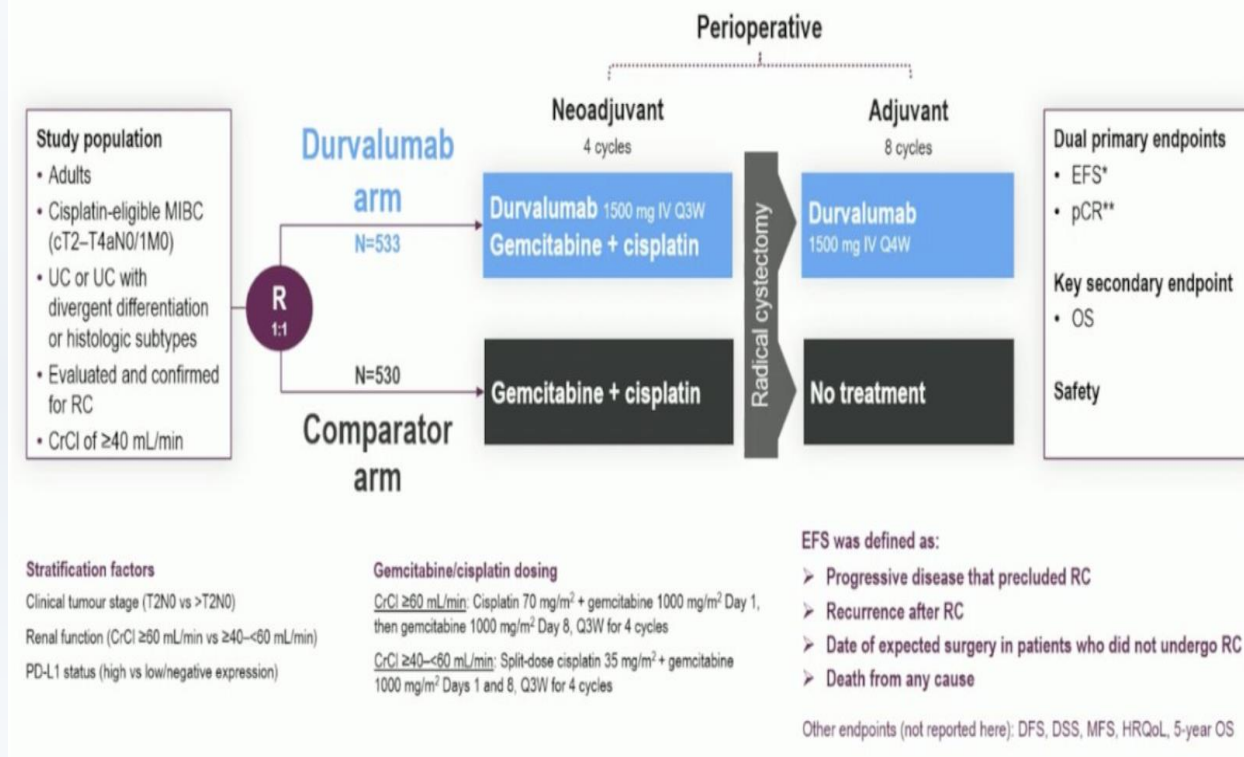
KEYNOTE15/EV-304

NIAGARA

Figure 1. Study design



NIAGARA: Study Design



Both regimens beat GC alone, but they have never been compared...

Are we comparing the same patients?

NIAGARA

Table 1. Demographic and Clinical Characteristics of the Patients at Baseline.*		
Characteristic	Durvalumab (N = 533)	Comparison (N = 530)
Age — yr		
Median (range)	65 (34–84)	66 (32–83)
≥75 — no. %	58 (10.9)	63 (11.9)
Sex — no. (%)		
Male	437 (82.0)	433 (81.7)
Female	96 (18.0)	97 (18.3)
Race — no. (%)†		
White	354 (66.4)	358 (67.5)
Asian	152 (28.5)	145 (27.4)
Black	6 (1.1)	4 (0.8)
Other	7 (1.3)	1 (0.2)
Missing data	14 (2.6)	22 (4.2)
Region — no. (%)		
Europe	265 (49.7)	287 (54.2)
Asia	151 (28.3)	143 (27.0)
North America and Australia	66 (12.4)	62 (11.7)
South America	51 (9.6)	38 (7.2)
ECOG performance-status score — no. (%)‡		
0	418 (78.4)	415 (78.3)
1	115 (21.6)	115 (21.7)
Smoking status — no. (%)		
Current	122 (22.9)	130 (24.5)
Former	255 (47.8)	269 (50.8)
Never	144 (27.0)	120 (22.6)
Missing data	12 (2.3)	11 (2.1)
Histologic type — no. (%)§		
Invasive urothelial carcinoma, not otherwise specified	457 (85.7)	441 (83.2)
Urothelial carcinoma with squamous differentiation	38 (7.1)	49 (9.2)
Urothelial carcinoma with glandular differentiation	10 (1.9)	15 (2.8)
Urothelial carcinoma with other histologic subtype	28 (5.3)	25 (4.7)
Tumor stage — no. (%)¶		
T2N0	215 (40.3)	213 (40.2)
Higher than T2N0	318 (59.7)	317 (59.8)
Regional lymph-node stage — no. (%)§		
N0	505 (94.7)	500 (94.3)
N1	28 (5.3)	30 (5.7)
Creatinine clearance — no. (%)		
≥60 ml/min/1.73 m ²	432 (81.1)	430 (81.1)
40 to <60 ml/min/1.73 m ²	101 (18.9)	100 (18.9)

EV304

Characteristic, n (%)	EV + pembro N = 405	Cis + gem N = 403
Median age (range), years	66.0 (35–83)	66.0 (37–85)
≥65 years	247 (61.0)	247 (61.3)
Male	327 (80.7)	327 (81.1)
ECOG PS		
0	317 (78.3)	310 (76.9)
1	88 (21.7)	93 (23.1)
Region		
United States	59 (14.6)	59 (14.6)
European Union	206 (50.9)	205 (50.9)
Most of world	140 (34.6)	139 (34.5)
PD-L1 CPS		
≥10	233 (57.5)	230 (57.1)
<10	171 (42.2)	173 (42.9)
Missing	1 (0.2)	0
Tumor stage at baseline (central assessment) ^a		
T2N0	79 (19.5)	77 (19.1)
T3/T4aN0	293 (72.3)	293 (72.7)
T1-4aN1	33 (8.1)	33 (8.2)
Pure urothelial carcinoma histology	370 (91.4)	353 (87.6)
Creatinine clearance		
≥90 mL/min	149 (36.8)	156 (38.7)
≥60 and <90 mL/min	252 (62.2)	245 (60.8)
≥30 and <60 mL/min ^b	4 (1.0)	2 (0.5)

Does Tumor Biology Matter? Variant Histology

Squamous histology

Enfortumab Vedotin Plus Pembrolizumab for the Treatment of Locally Advanced or Metastatic Bladder Cancer of Variant Histology

ClinicalTrials.gov ID ⓘ NCT05756569

Sponsor ⓘ Emory University

Information provided by ⓘ Jacqueline Brown, Emory University (Responsible Party)

Last Update Posted ⓘ 2025-07-28

Recruiting ⓘ

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Background: The Nectin-4 directed antibody-drug conjugate EV has demonstrated high efficacy in metastatic urothelial carcinoma (mUC), but outcomes in patients with divergent histologies remain poorly characterized. Squamous differentiation represents a clinically challenging subtype with distinct molecular features. We investigated Nectin-4 expression patterns

patients with squamous histology exhibited inferior clinical outcomes to EV: ORR was lower (20.0% vs 51.6%, $p = 0.02$), median PFS was 2.8 months vs 6.2 months (HR = 2.52, 95% CI 1.45–4.37, $p = 0.001$), and median OS was 6.5 months vs 13 months (HR = 2.38, 95% CI 1.26–4.49, $p = 0.008$). **Conclusions:** Squamous differentiation in advanced urothelial carcinoma is associated with significantly lower membranous Nectin-4 expression and NECTIN4 amplification frequency, corresponding to markedly inferior responses to EV. These findings highlight the critical need for alternative therapeutic targets and novel treatment strategies in this population. Research Sponsor: None.

UROTHELIAL CARCINOMA

865

Association of urothelial carcinoma with squamous differentiation with Nectin-4 expression and outcomes with enfortumab vedotin (EV) treatment.

Jonas Saal, Niklas Klümper, Stefanie Zschaebitz, Thomas Büttner, Florian Roghmann, Dora Niedersuess-Beke, Friedemann Zengerling, Richard Cathomas,

 Check for updates

Poster Session

Toxicity Profile Matters

GC+ Durvalumab (NIAGARA)

- Familiar toxicity profile
- Well established management
- Grade ≥ 3 TRAE: **40.6%**

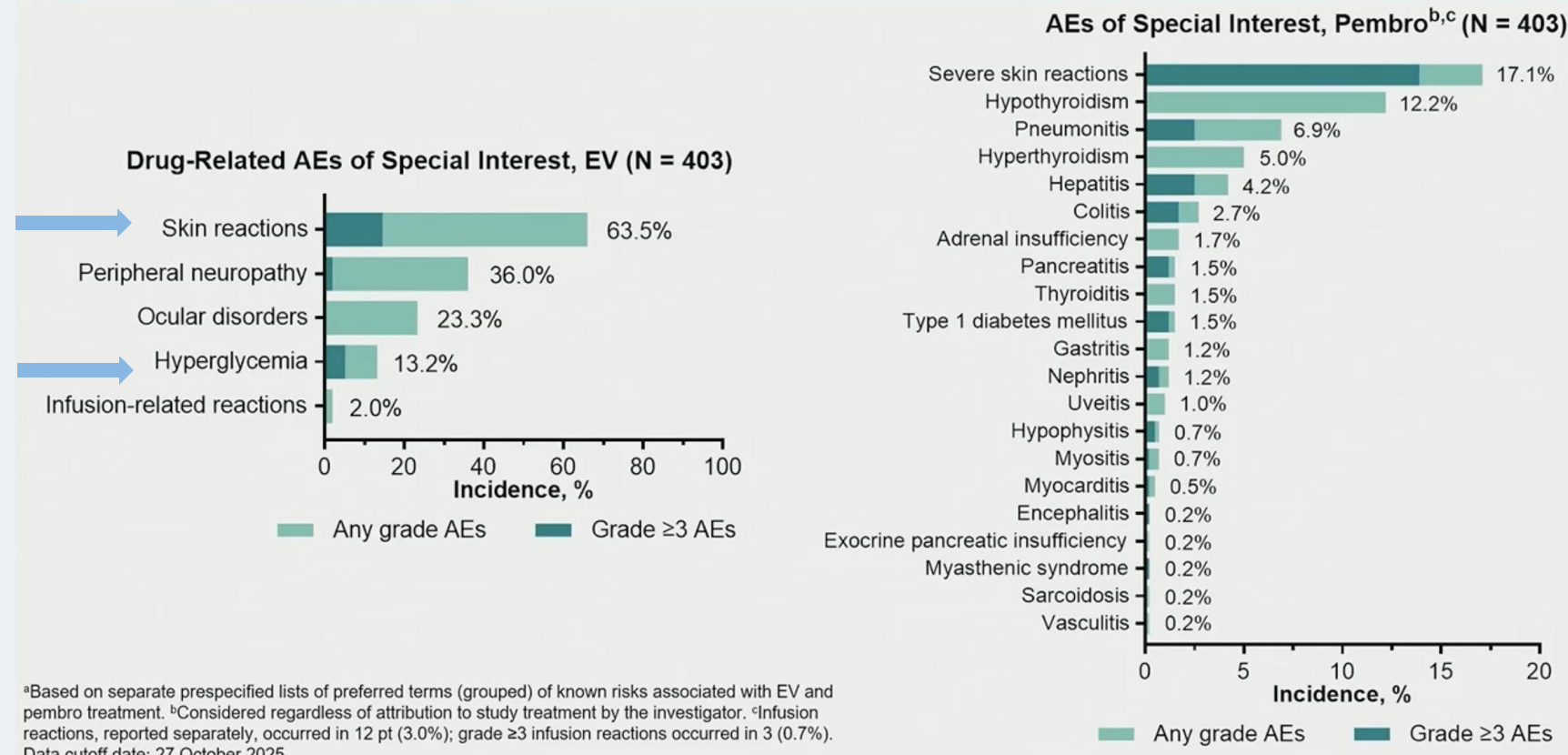
EVP (EV-304)

- Grade ≥ 3 TRAE: **45.5%**
- Unique toxicities:
 - **Severe skin reactions**
 - **Peripheral neuropathy**
 - **Hyperglycemia**
 - **Ocular toxicity**

Treatment AE in EV304

AEs of Special Interest^a

Safety Analysis Population, EV + Pembro Arm



EV studies excluded patients with:

- HbA1c ≥ 8 , limited data in diabetics

Treatment Burden Matters

Duration? Cost? Global Access?

NIAGARA

- Duration: 4 cy of GC (12w), 8 cy adj durvalumab (32w) = **44w**
- Established chemotherapy
- Lower financial burden
- Widely available globally

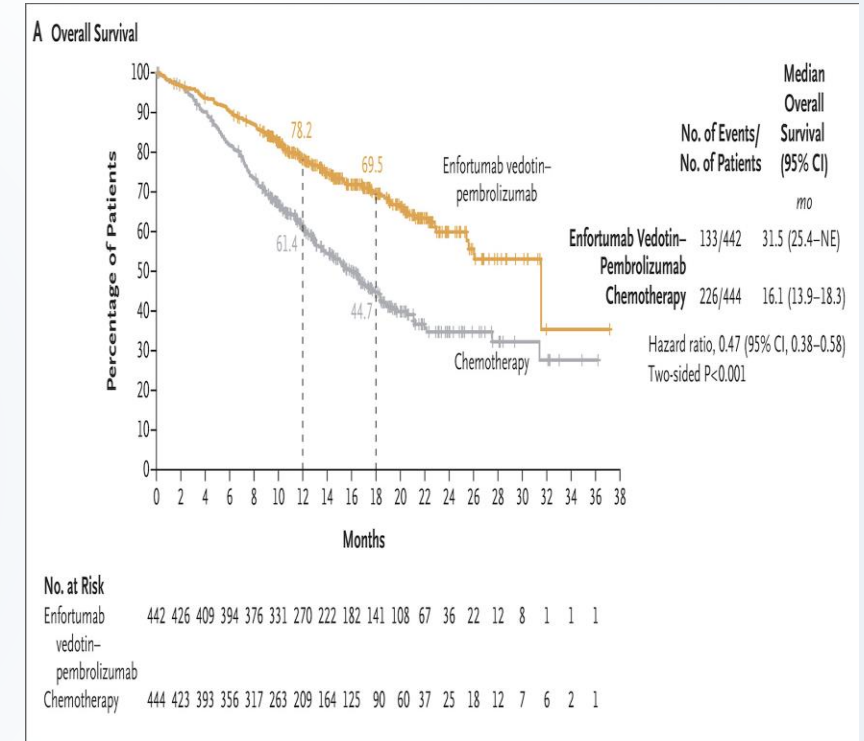
EVP

- Duration: 4 cy EVP, 5 cy adj EV and 13 cycles of adj pembro = **27w EVP + 24 weeks pembro = 51w**
- Novel targeted therapy+IO
- Higher financial burden
- Access may be limited

Treatment decisions extend beyond efficacy alone...

An unanswered question: Treatment Sequencing?

- Data from EV-302 evaluating EVP vs SOC chemotherapy in advanced UC improved OS
- Questions we still don't know:
 - Can EVP be effectively reused after perioperative EVP?
 - What is optimal therapy after relapse on adjuvant EVP?
 - Will earlier EV exposure change future treatment options?



Summary

What we know:

- EVP is a landmark trial
- EVP will become standard for most MIBC
- NIAGARA has OS and clinical utility

What we still don't know:

- EVP vs GC +durvalumab (no head-to head)
- Optimal treatment sequencing
- Best strategy by histology
- Duration of therapy needed? pCR and ctDNA to guide decisions

Who to still consider NIAGARA for?

- Variant histology
- Significant DM or history of skin conditions
- Cost or access limitations

EVP is practice-changing, not practice-uniform

*The goal is not to give every patient the same treatment...
it is to give every patient the right treatment*

