



Society for Immunotherapy of Cancer

Cancer Immunotherapy

GUIDELINES

Immunotherapy for the Treatment of Urothelial Cancer

August 25, 2021

5:30 – 6:30 p.m. EDT

Jointly provided by Postgraduate Institute for Medicine and the Society for Immunotherapy of Cancer

This webinar is supported, in part, by independent medical education grant funding from Amgen,
AstraZeneca Pharmaceuticals LP, and Merck & Co., Inc.

Webinar faculty



Ashish M. Kamat, MD,
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University of Texas MD
Anderson Cancer
Center*



Peter C. Black, MD –
*University of British
Columbia*



Matthew D. Galsky, MD –
*Tisch Cancer Institute at
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Center*



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*Perlmutter Cancer
Center – NYU Langone
Medical center*

Learning objectives

- Select appropriate diagnostics and biomarker testing tailored to the clinical setting for a patient being considered for immunotherapy based on the expert panel recommendations in the SITC Clinical Practice Guideline (CPG)
- Implement immunotherapy treatments effectively and appropriately for urothelial cancer according to the recommendations in the CPG
- Appraise patterns of response to immunotherapy in order to appropriately monitor and manage patients during treatment

Webinar outline

- Introduction to the Guideline
- Biomarkers in urothelial cancer
- Non-muscle invasive bladder cancer
- Advanced urothelial cancer
- Future directions for immunotherapy in urothelial cancer

Development of the guideline

- Panel included 15 members
- Developed in accordance with The Institute of Medicine's Standards for Developing Trustworthy Clinical Practice Guidelines
- Recommendations are based on literature evidence where available and expert consensus where necessary
- Consensus is defined as $\geq 75\%$ agreement amongst panel members

Original guideline: 2017

Kamat et al. *Journal for ImmunoTherapy of Cancer* (2017) 5:68
DOI 10.1186/s40425-017-0271-0

Journal for ImmunoTherapy
of Cancer

POSITION ARTICLE AND GUIDELINES

Open Access

Society for Immunotherapy of Cancer consensus statement on immunotherapy for the treatment of bladder carcinoma



Ashish M. Kamat^{1*}, Joaquim Bellmunt², Matthew D. Galsky³, Badrinath R. Konety⁴, Donald L. Lamm⁵, David Langham⁶, Cheryl T. Lee⁷, Matthew I. Milowsky⁸, Michael A. O'Donnell⁹, Peter H. O'Donnell¹⁰, Daniel P. Petrylak¹¹, Padmanee Sharma¹², Eila C. Skinner¹³, Guru Sonpavde¹⁴, John A. Taylor III¹⁵, Prasanth Abraham¹⁶ and Jonathan E. Rosenberg¹⁷

Development of the guideline

Open access

Position article and guidelines

 **Society for Immunotherapy of Cancer (SITC) clinical practice guideline on immunotherapy for the treatment of urothelial cancer**

Matthew D Galsky,¹ Arjun V Balar,² Peter C Black,³ Matthew T Campbell,⁴
Gail S Dykstra,^{5,6} Petros Grivas,^{7,8} Shilpa Gupta,⁹ Christopher J Hoimes,¹⁰
Lidia P Lopez,¹¹ Joshua J Meeks,^{12,13} Elizabeth R Plimack,¹⁴
Jonathan E Rosenberg,^{15,16} Neal Shore,¹⁷ Gary D Steinberg,¹⁸ Ashish M Kamat¹⁹

Webinar outline

- Introduction to the Guideline
- **Biomarkers in urothelial cancer**
- Non-muscle invasive bladder cancer
- Advanced urothelial cancer
- Future directions for immunotherapy in urothelial cancer

Biomarkers to predict response to BCG

Exploratory markers only:

CyPRIT cytokine
panel

Kamat et al., Eur Urol 2016

UroVysion FISH

Kamat et al., J Urol 2012

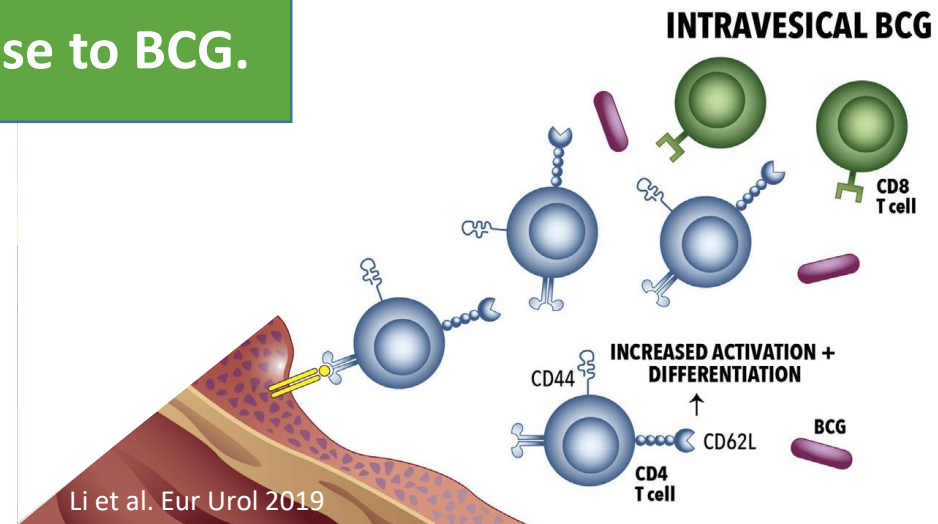
RNA expression
signatures

Kates et al., BCAN 2020

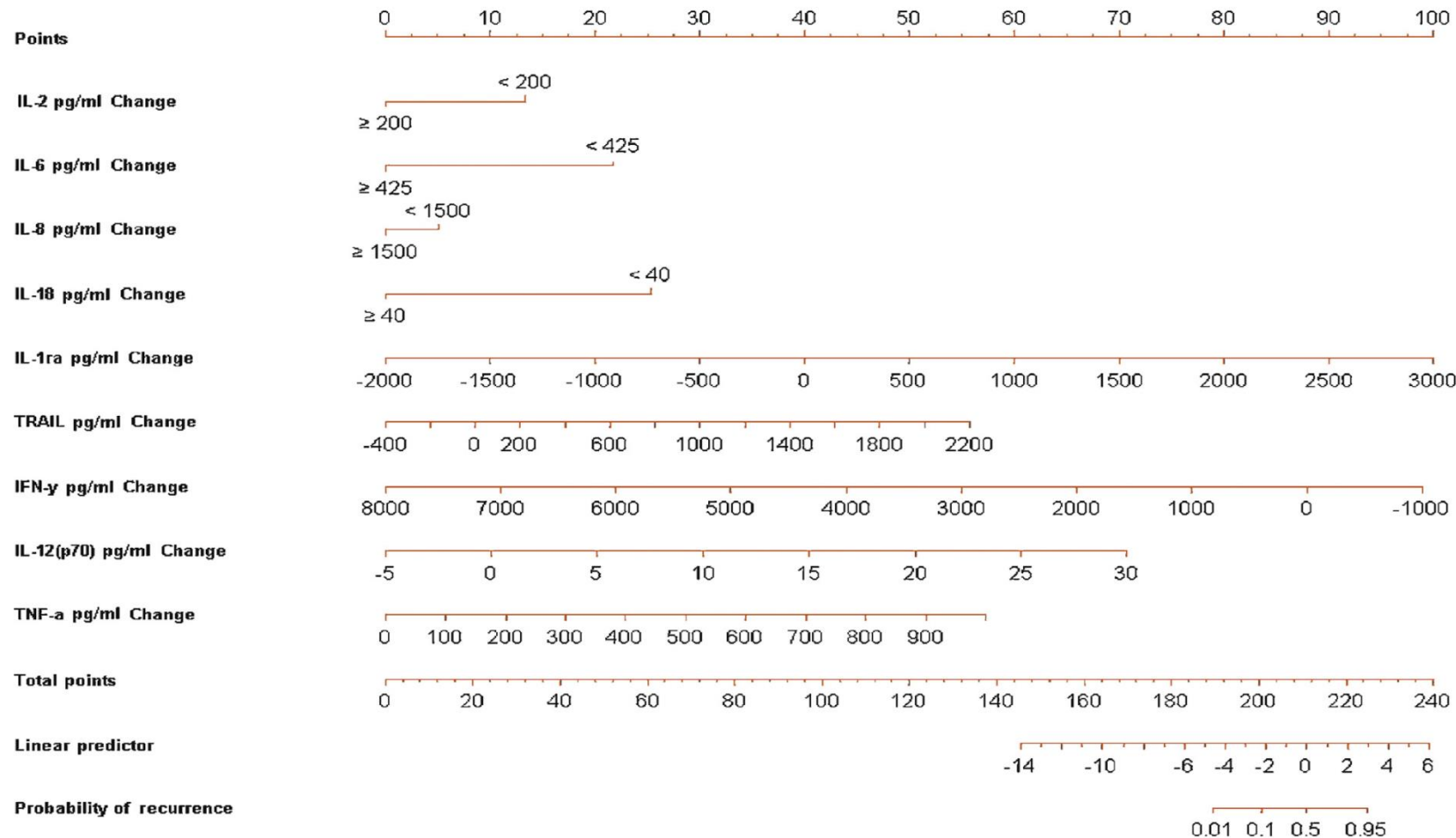
ARID1A
mutation

Pietzak et al., Eur Urol 2017

There are no validated biomarkers to predict response to BCG.



CyPRIT predicted the probability of recurrence with 85.5% accuracy

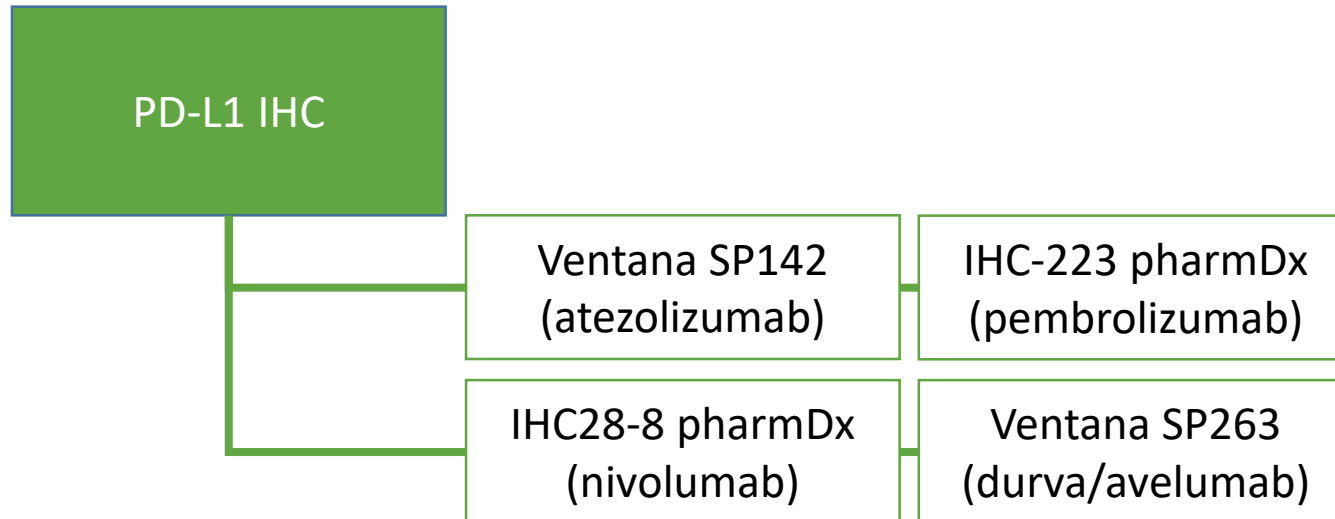


Biomarkers of response to anti-PD(L)1

Exploratory



Potential clinical utility

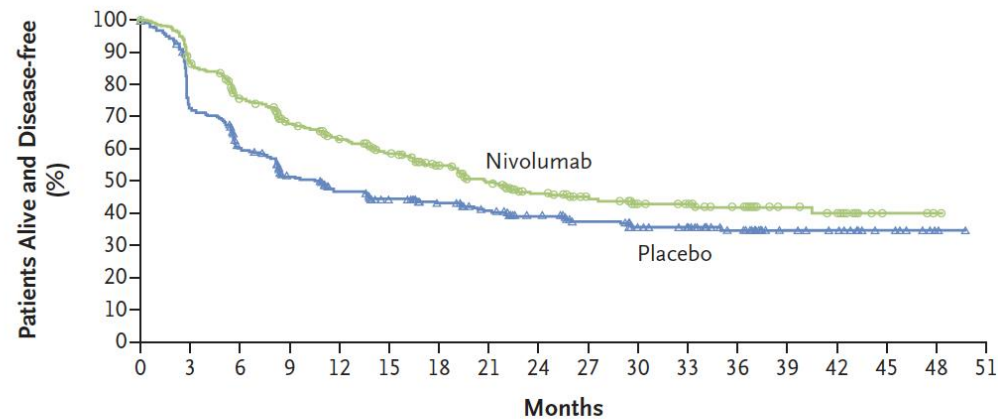


A role for PD-L1 immunohistochemistry?

BCG-unresponsive NMIBC	MIBC Adjuvant	First line mUC cisplatin ineligible	First line mUC switch maintenance	Second Line mUC
Pembrolizumab	Nivolumab	Pemrbolizumab Atezolizumab	Avelumab	Any
No value in PDL1 testing	PFS benefit in ITT, enhanced in PDL1+	Administer to carbo-eligible only if PDL1+	OS benefit in ITT, enhanced in PDL1+	No value in PDL1 testing

But carboplatin followed by switch maintenance avelumab is preferred regardless of PD-L1 status

Overall

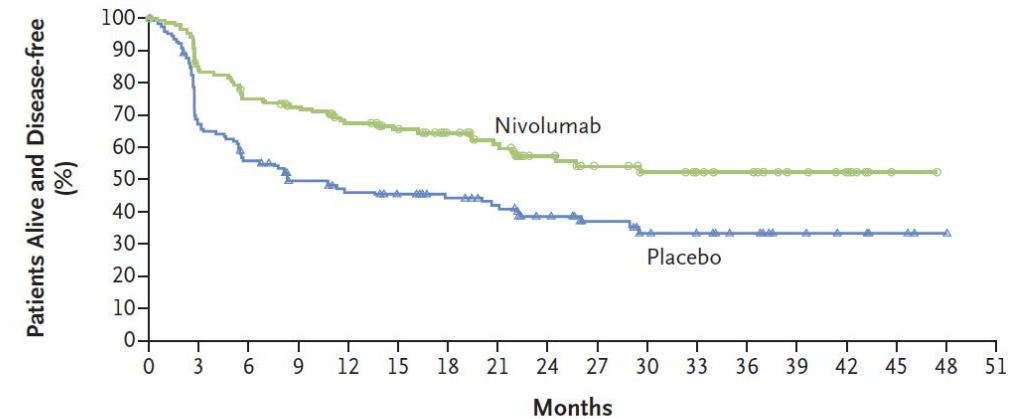


No. at Risk																		
Nivolumab	353	296	244	212	178	154	126	106	85	68	57	51	36	23	20	3	1	0
Placebo	356	248	198	157	134	121	105	94	80	65	54	50	37	22	19	10	2	0

No. of Events/ No. of Patients	Disease-free Survival at 6 Mo (95% CI)	Disease-free Survival at 12 Mo (95% CI)
	%	
170/353	74.9 (69.9–79.2)	62.8 (57.3–67.8)
204/356	60.3 (54.9–65.3)	46.6 (41.1–51.9)

Hazard ratio for disease recurrence or death:
0.70 (98.72% CI, 0.55 – 0.90) p<0.001

PD-L1+



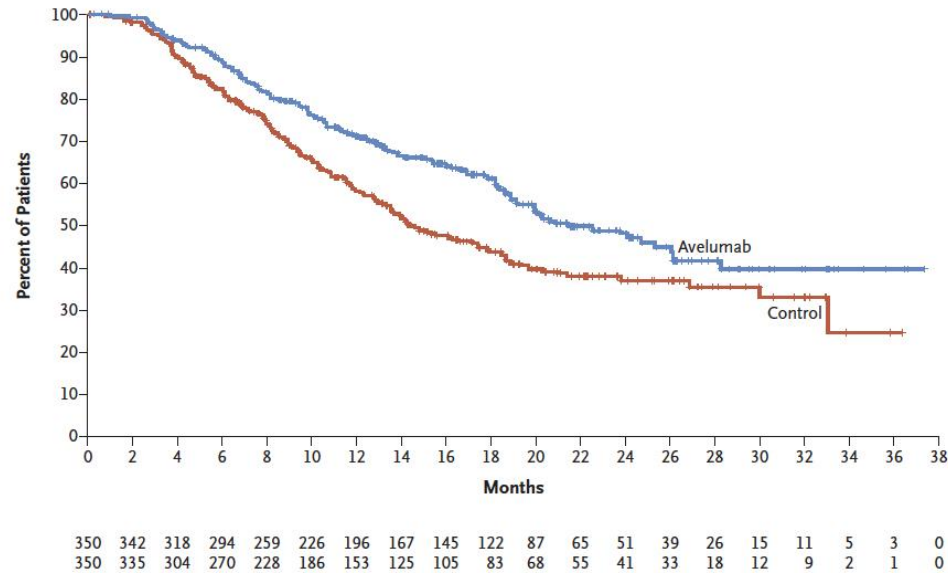
No. at Risk																		
Nivolumab	140	113	98	91	76	68	58	50	38	31	27	24	21	12	10	1	0	0
Placebo	142	90	73	59	53	49	42	37	28	22	17	16	12	7	5	3	1	0

No. of Events/ No. of Patients	Disease-free Survival at 6 Mo (95% CI)	Disease-free Survival at 12 Mo (95% CI)
	%	
55/140	74.5 (66.2–81.1)	67.2 (58.4–74.5)
81/142	55.7 (46.8–63.6)	45.9 (37.1–54.2)

Hazard ratio for disease recurrence or death:
0.55 (98.72% CI, 0.35 – 0.85) p<0.001

mUC Switch Maintenance: Javelin 100 Bladder

Overall



Median Overall Survival (95% CI)

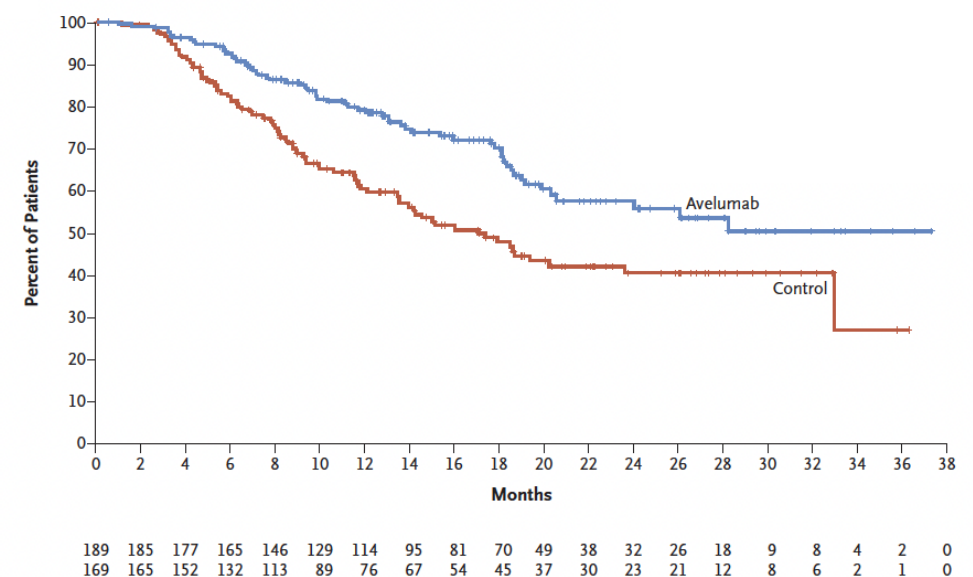
mo

Avelumab 21.4 (18.9–26.1)
Control 14.3 (12.9–17.9)

Stratified hazard ratio for death:

0.69 (95% CI, 0.56 – 0.86) p=0.001

PD-L1+



Median Overall Survival (95% CI)

mo

Avelumab NE (20.3–NE)
Control 17.1 (13.5–23.7)

Stratified hazard ratio for death:

0.56 (95% CI, 0.40 – 0.79) p<0.001

MSI/dMMR predicts response to anti-PD(L)1

Microsatellite instability (MSI) or mismatch repair deficiency (dMMR) is found in 1% of bladder ca and 7-14% of upper tract urothelial ca (Lynch Syndrome)

Pembrolizumab is indicated in patients with metastatic or unresectable solid tumor refractory to first line therapy if MSI/dMMR

However, pembrolizumab is indicated for platinum-refractory mUC regardless of MSI/dMMR status

Similar for pembrolizumab in treatment of patients with unresectable or metastatic solid tumors with **high TMB** (≥ 10 mutations/ megabase (mut/Mb))

Biomarkers - Summary

There are currently no biomarkers to predict response to BCG therapy.

PD-L1 immunohistochemistry is only indicated to determine use of carboplatin vs. anti-PD(L)1 therapy in carboplatin-eligible, cisplatin-ineligible patients with mUC (first line).

Pembrolizumab is indicated in 2nd line mUC regardless of MSI/dMMR or TMB status, so that these markers do not currently have an established role in treatment selection.

Webinar outline

- Introduction to the Guideline
- Biomarkers in urothelial cancer
- **Non-muscle invasive bladder cancer**
- Advanced urothelial cancer
- Future directions for immunotherapy in urothelial cancer

Risk-Adapted NMIBC Therapy

Low Risk	Intermediate Risk	High Risk	Very High Risk
TURBT	TURBT	TURBT x 2	TURBT
Single dose post-op chemo Observation Office fulguration	Single dose post-op chemo Consider adjuvant chemo, or BCG with maintenance (1 yr)	BCG with maintenance (3 years) ↓ Pembrolizumab	Radical cystectomy

INTRACAVITARY BACILLUS CALMETTE-GUERIN IN THE TREATMENT OF SUPERFICIAL BLADDER TUMORS

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(Reprinted from J Urol, 116: 180-183, 1976)

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Vol. 163, 1124-1129, April 2000

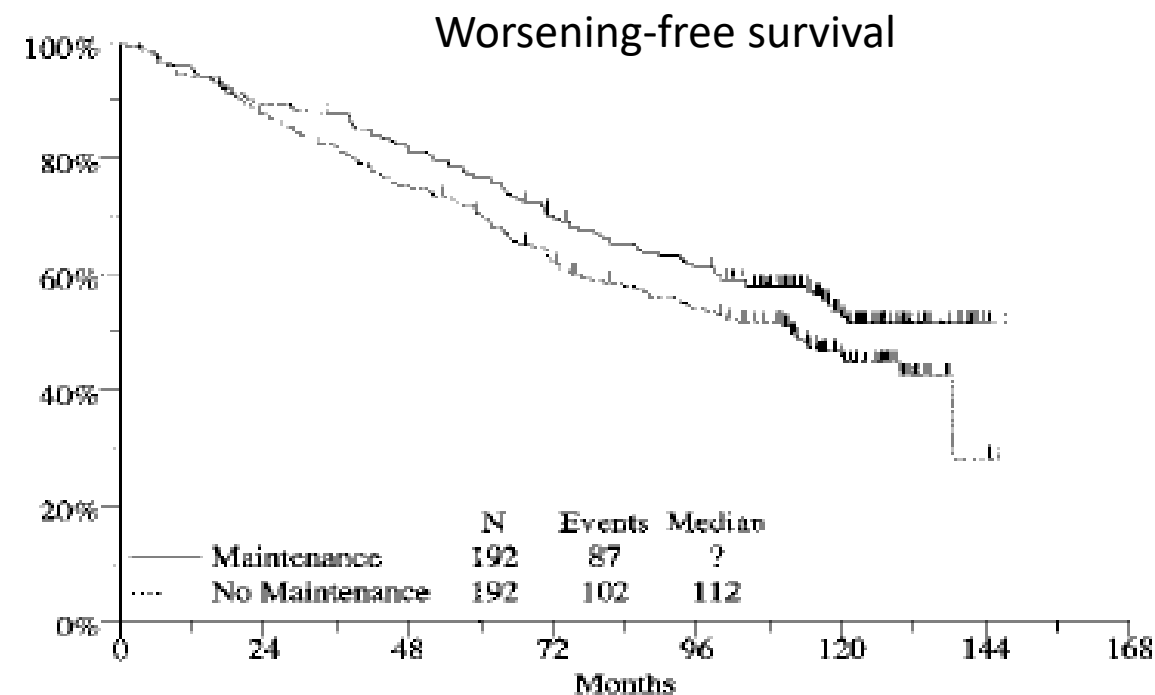
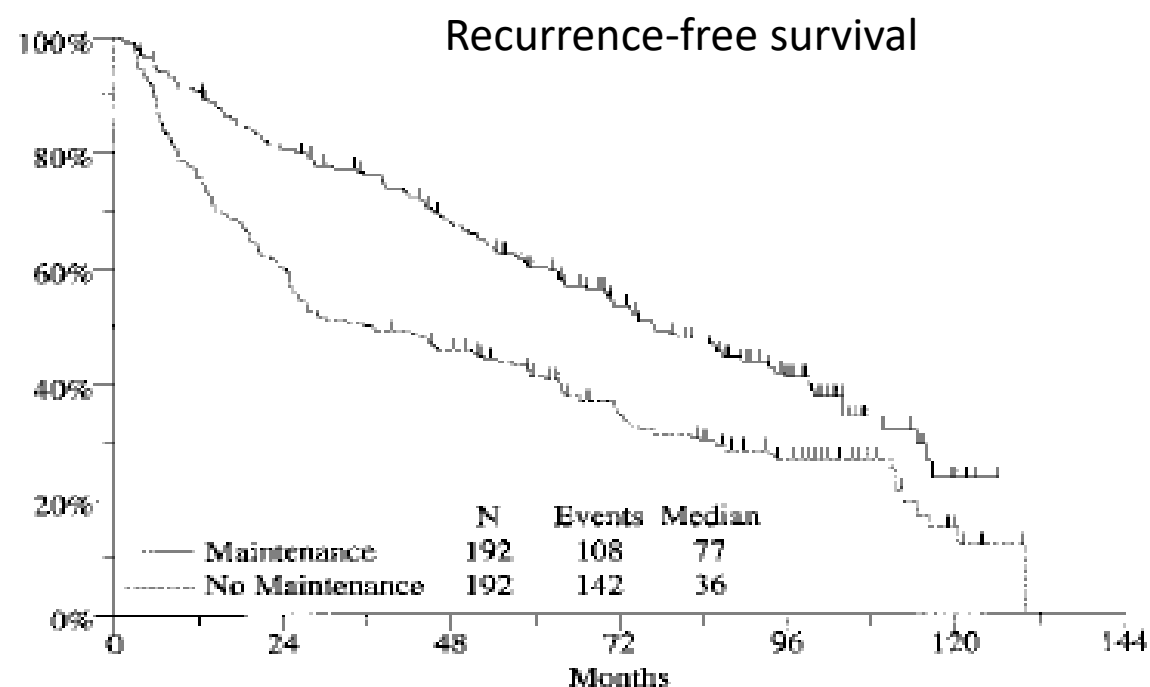
Printed in U.S.A.

MAINTENANCE BACILLUS CALMETTE-GUERIN IMMUNOTHERAPY FOR RECURRENT TA, T1 AND CARCINOMA IN SITU TRANSITIONAL CELL CARCINOMA OF THE BLADDER: A RANDOMIZED SOUTHWEST ONCOLOGY GROUP STUDY

DONALD L. LAMM,*† BRENT A. BLUMENSTEIN, JOHN D. CRISSMAN, JAMES E. MONTIE, JAMES E. GOTTESMAN, BRUCE A. LOWE, MICHAEL F. SAROSDY,‡ ROBERT D. BOHL, H. BARTON GROSSMAN,§ THOMAS M. BECK, JOSEPH T. LEIMERT AND E. DAVID CRAWFORD||

From the West Virginia University Medical Center, Morgantown, West Virginia, Southwest Oncology Group Statistical Center and Swedish Hospital Tumor Institute, Seattle, Washington, Harper Hospital, Detroit and University of Michigan Medical Center, Ann Arbor, Michigan, Oregon Health Sciences University and Northwest Clinical Oncology Program, Portland, Oregon, University of Texas Health Science Center at San Antonio, San Antonio and University of Texas M. D. Anderson Cancer Center, Houston, Texas, Columbus Clinical Oncology Program, Columbus, Ohio, St. Luke's Regional Medical Center, Boise, Idaho, and University of Colorado, Denver, Colorado

BCG: Bacillus Calmette-Guérin

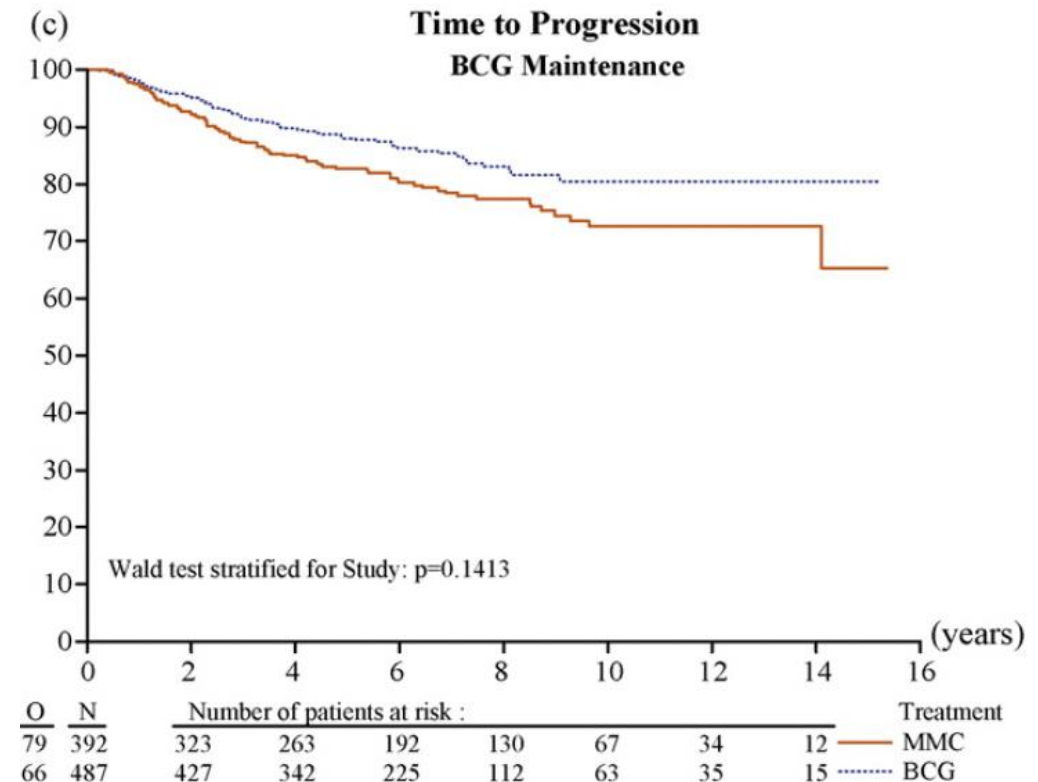
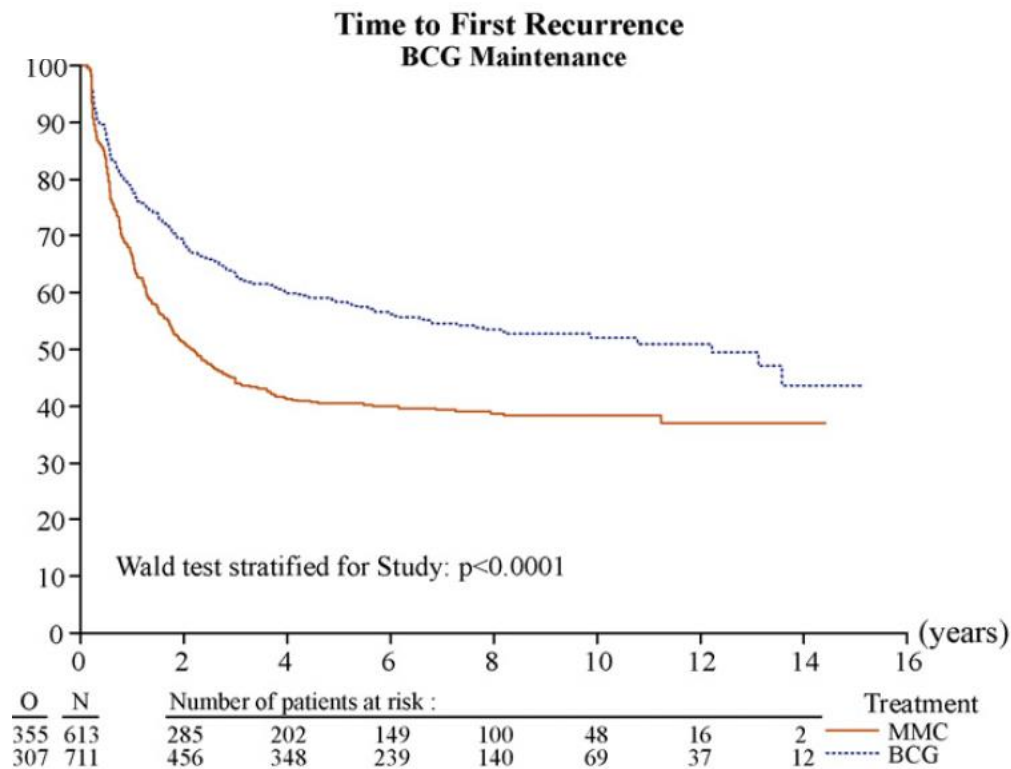


SWOG 8507

Lamm et al., J Urol 2000

BCG is Superior to Chemotherapy

Meta-analysis of 9 trials including 2820 patients

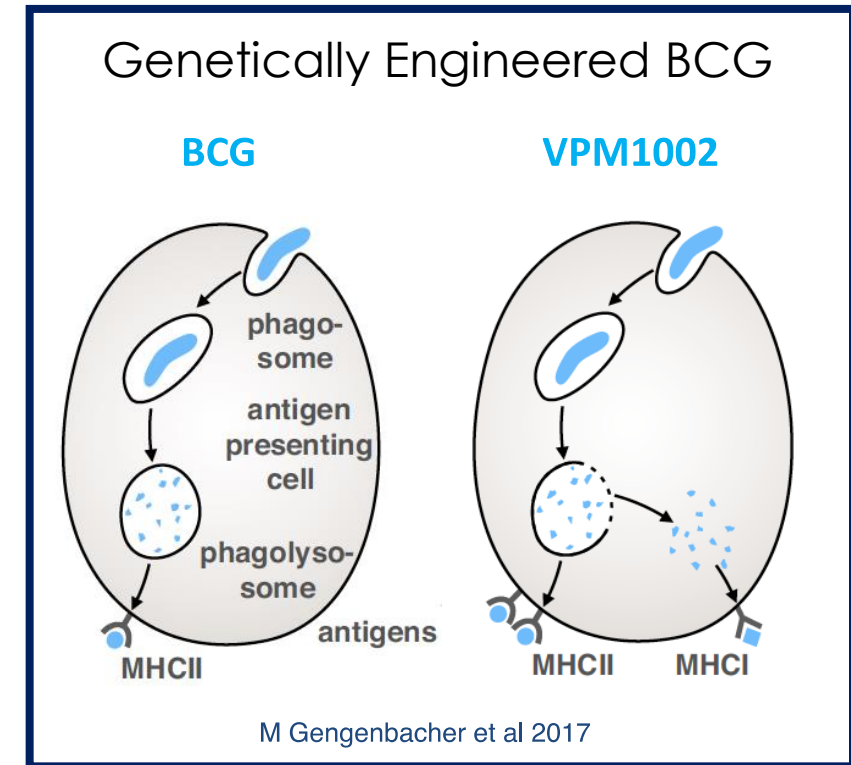
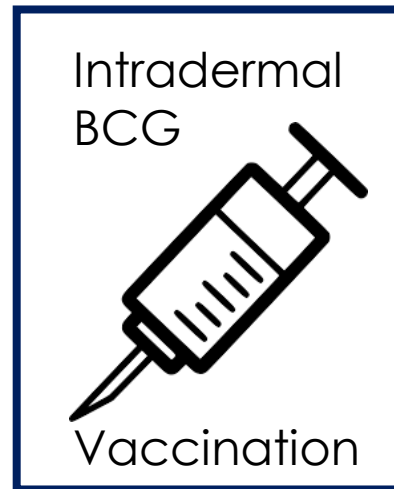
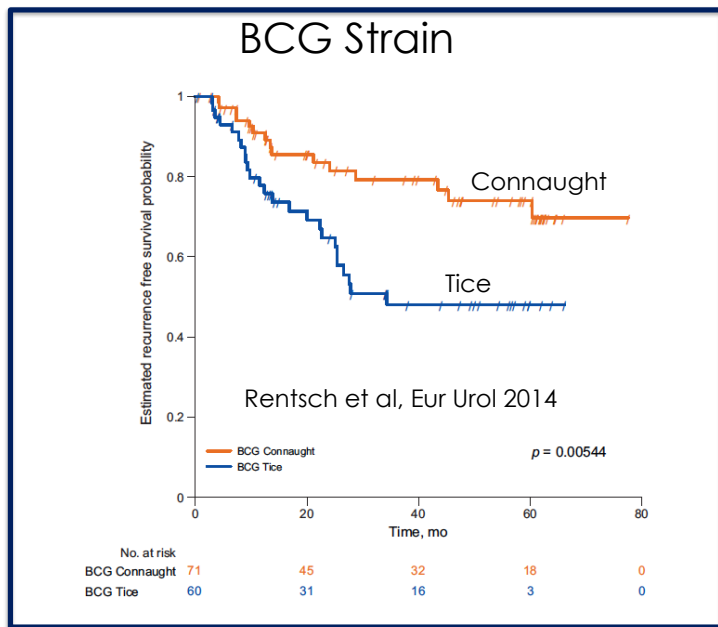


— Mitomycin
- - - BCG

Malmström PU et al., Eur Urol. 2009

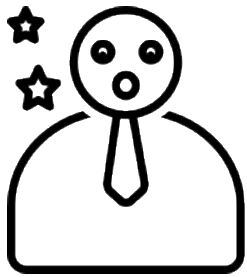
Better BCG: Building on a Solid Foundation

Completed trial: S1602 A Randomized Trial to Evaluate the Influence of BCG Strain Differences and T Cell Priming for BCG-Naïve High-Grade Non-Muscle Invasive Bladder Cancer



High risk NMIBC disease states defined by BCG

**BCG
Naïve**



**BCG
'Exposed'**

Induction only

Late Relapse



**BCG
Unresponsive**

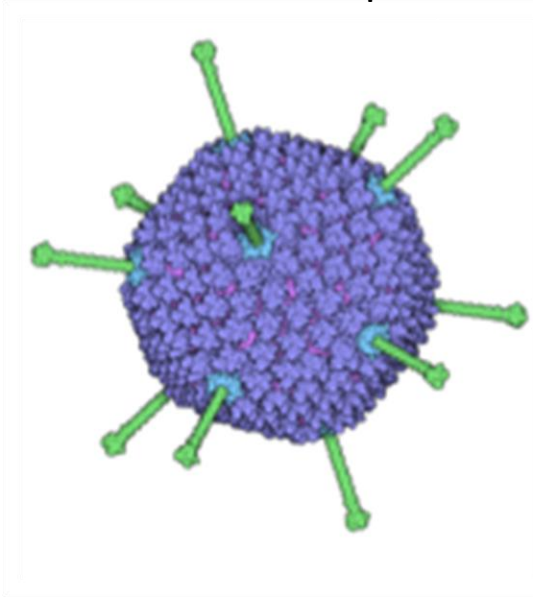
BCG Refractory

Early Relapse



Intravesical nadofaragene firadenovec for BCG unresponsive CIS $\pm$ Ta/T1

Gene therapy: adenovirus carrying IFN- α 2b
+ SYN3 as excipient



FDA priority review ongoing

Phase III Results

CR @ 3 months:	53%	(73% in Ta/T1)
CR @ 6 months:	41%	(63% in Ta/T1)
CR @ 9 months:	35%	(58% in Ta/T1)
CR @ 12 months:	24%	(44% in Ta/T1)

(5 patients progressed to MIBC (TURBT or RC))

PD(L)1 Inhibitors for BCG unresponsive CIS ± Ta/T1

Keynote 057 Pembrolizumab

N=96

3 mo CR: 41%

6 mo CR: 31%

12 mo CR: 19%

median DOR 16 mo

Gr 3 TRAE: 13%

Balar et al, Lancet Oncol 2021



SWOG S1605 Atezolizumab

N=74

3 mo CR: 42%

6 mo CR: 27% (mandatory biopsy)

12 mo CR: 25%

median DOR 15 mo

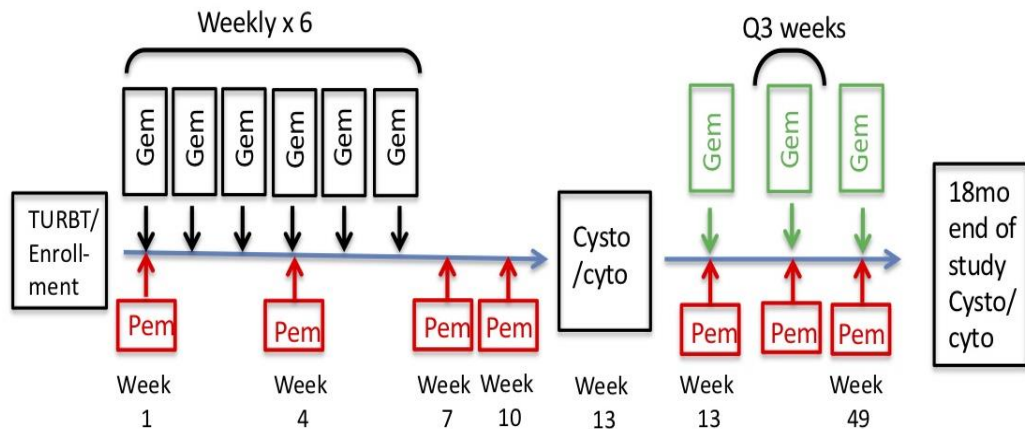
Gr 3 TRAE: 16%

Black et al, ASCO 2020 & 2021

What's next: Combination Therapy with Immune Checkpoint Inhibitors

A031803 Pembrolizumab

BCG unresponsive CIS ± Ta/T1



Pembro (IV) + intravesical gemcitabine

Checkmate 9UT Nivolumab

BCG unresponsive NMIBC
High risk disease after
adequate BCG
CIS with or without
papillary component, any
T1, any HG Ta
Predominantly urothelial

Arm 1: Nivolumab monotherapy (52 wk)

Arm 2: Nivolumab (52 wk) + BCG
(induction and maintenance)

Arm 3: Nivolumab (52 wk) +
Linrodostat (52 wk)

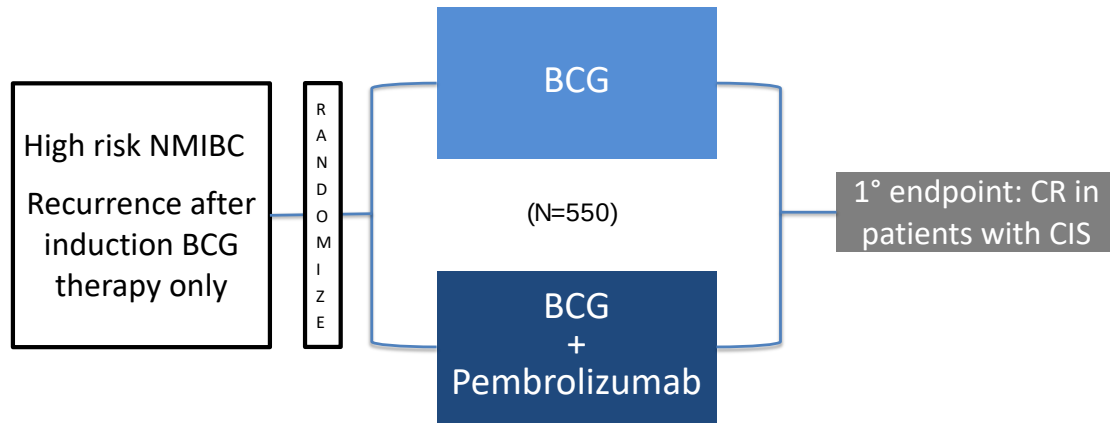
Arm 4: Nivolumab (52 wk) + BCG
(induction and maintenance) +
Linrodostat (52 wk)

Endpoint: Complete response rate or
duration of complete response (CIS
patients), Event-free survival

Linrodostat: once-daily PO IDO-1 inhibitor

What's next: Immune Checkpoint Inhibitors for Earlier NMIBC

BCG “Exposed”

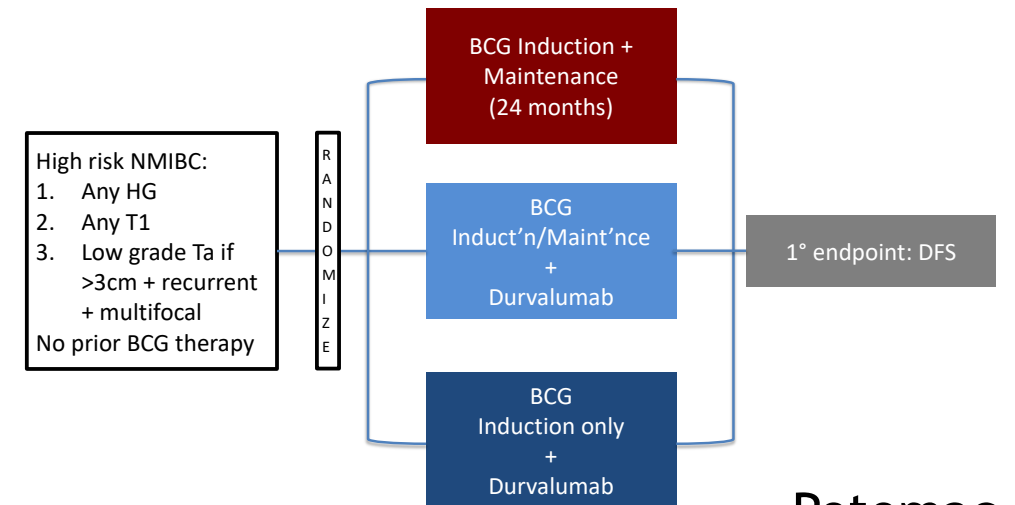


Keynote 676

Similar Trials:

- Checkmate 7G8 with nivolumab
- ADAPT-Bladder durvalumab + RT

BCG Naïve



Potomac

Similar Trials:

- ALBAN with atezolizumab
- CREST with sasanlimab (subq)

NMIBC Immunotherapy Summary

BCG induction + maintenance therapy is the standard of care for intermediate (1 year) and high risk (3 years) NMIBC

Pembrolizumab (IV) is approved for the treatment of BCG-unresponsive high risk NMIBC

Several novel immunotherapies are in clinical development as monotherapy and combination therapy in all states of NMIBC

Webinar outline

- Introduction to the Guideline
- Biomarkers in urothelial cancer
- Non-muscle invasive bladder cancer
- **Advanced urothelial cancer**
 - First-line immunotherapy
 - Second-line immunotherapy
- Future directions for immunotherapy in urothelial cancer

Immune Checkpoint Inhibitors for Locally Advanced and Metastatic UC

Agent	Ab Inhibits	Schedule	Post Platinum	Front-line Cis-Ineligible
Atezolizumab	PD-L1	Q3W	Accelerated	Accelerated
Nivolumab	PD-1	Q2W	Accelerated	--
Durvalumab	PD-L1	Q2W	Accelerated	--
Avelumab	PD-L1	Q2W	Accelerated	--
Pembrolizumab	PD-1	Q3W	Level 1	Accelerated

Approximately 50% of Patients are “Cisplatin-Ineligible”

- ECOG PS = 2
- Creatinine clearance < 60 mL/min
- Grade $\geq$ 2 hearing loss
- Grade $\geq$ 2 neuropathy
- New York Heart Association Class III CHF



Immune Checkpoint Inhibitors for Locally Advanced and Metastatic UC

Agent	Ab Inhibits	Schedule	Post Platinum	Front-line Cis-Ineligible
Atezolizumab	PD-L1	Q3W	Accelerated	Accelerated
Nivolumab	PD-1	Q2W	Accelerated	--
Durvalumab	PD-L1	Q2W	Accelerated	--
Avelumab	PD-L1	Q2W	Accelerated	--
Pembrolizumab	PD-1	Q3W	Level 1	Accelerated

PD-L1/PD-1 Inhibitor Therapy: A New Standard of Care for Cisplatin-Ineligible mUC

IMvigor210^{1,2} Atezolizumab

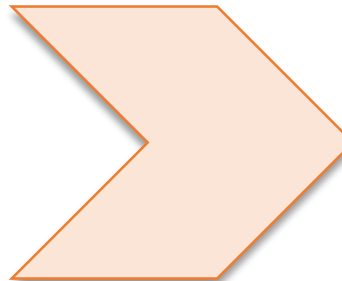
Mature OS data
for **cohort 1**
of 16.3 mo



- ORR: 24%, including 8% CRs
- 1-y OS: 58%; 2-y OS: 41%
- Baseline PD-L1 expression not strongly associated with ORR
- FDA approved in February 2017

KEYNOTE-052³ Pembrolizumab

Updated data
with OS of
11.3 mo



- ORR: 29%
- CR: 9%
- PD-L1 CPS $\geq 10 \rightarrow$ 47% ORR (mOS 18.5 mo)
- FDA approved in May 2017

A Series of Randomized Clinical Trials has Recently Refined First-line Treatment for Metastatic Urothelial CA

DANUBE

Is there a role for chemo + IO?

KEYNOTE 361

Is there a role for IO alone upfront?

IMvigor 130

Is there a role for biomarker selection for IO?

Javelin-100

Is there a role for “switch maintenance” IO?

Checkmate 901

Is there a role for IO doublet therapy?

A Series of Randomized Clinical Trials has Recently Refined First-line Treatment for Metastatic Urothelial CA

DANUBE

Is there a role for chemo + IO?

KEYNOTE 361

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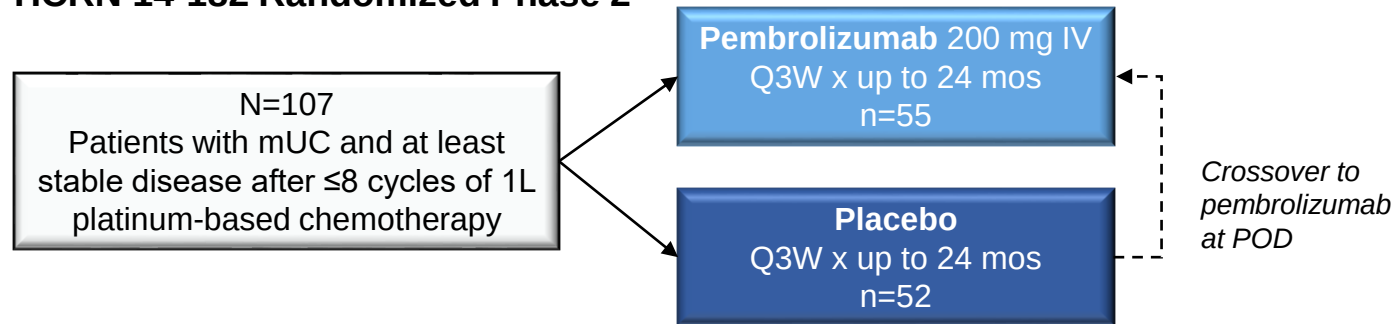
Is there a role for “switch maintenance” IO?

Checkmate 901

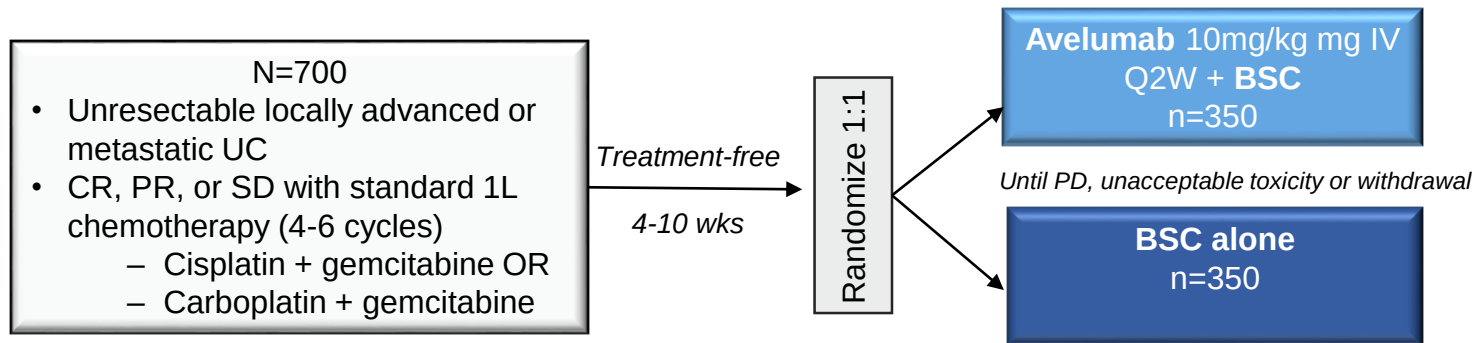
Is there a role for IO doublet therapy?

“Switch Maintenance” PD-1/PD-L1 Blockade Improves Outcomes in Metastatic UC

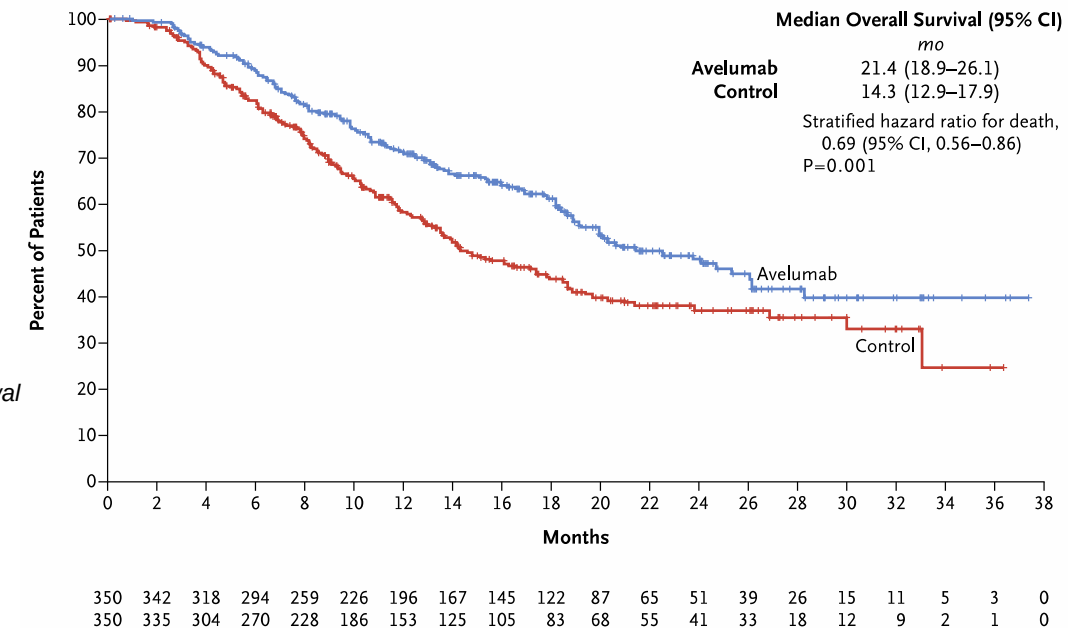
HCRN 14-182 Randomized Phase 2



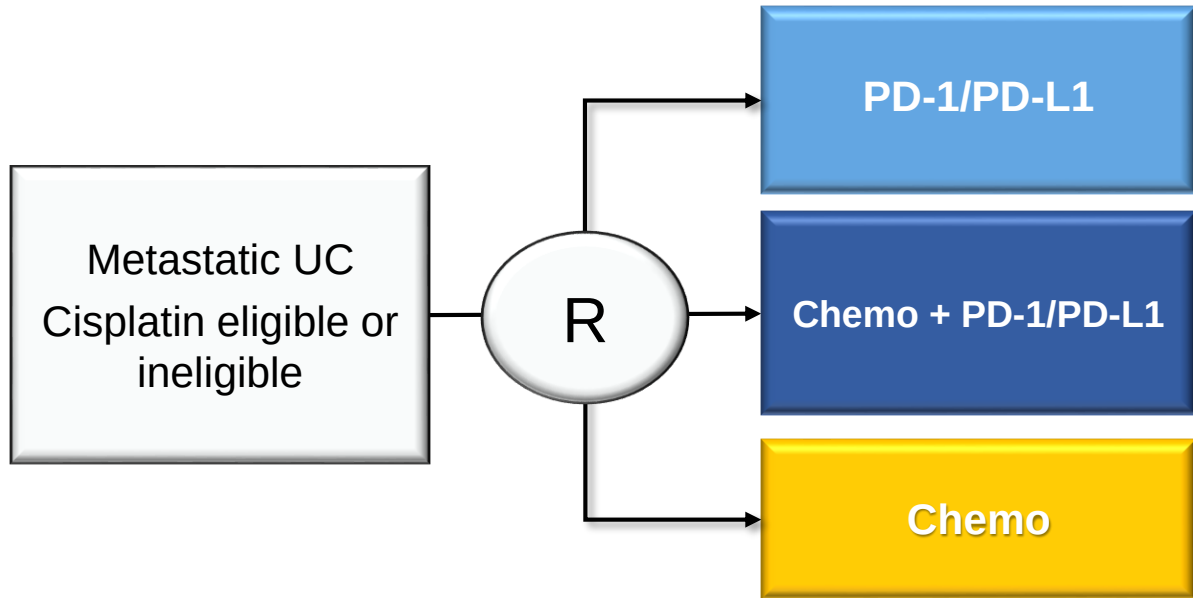
Javelin Bladder-100 Randomized Phase 3



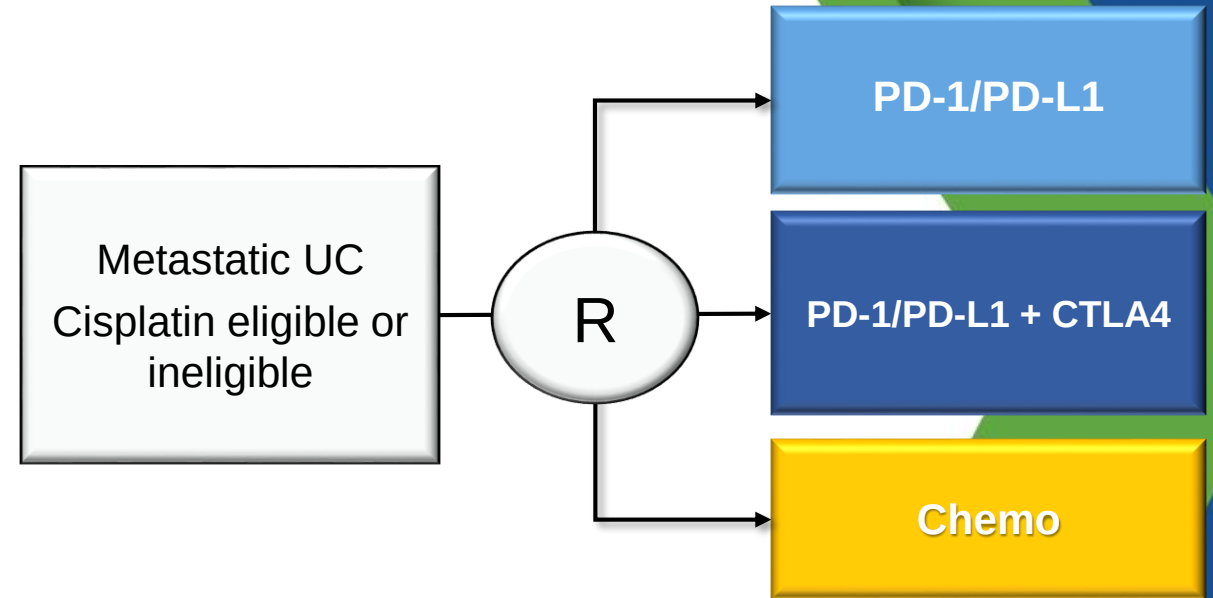
Javelin Bladder-100 Overall Survival



What is Optimal First-line Treatment for Metastatic UC?

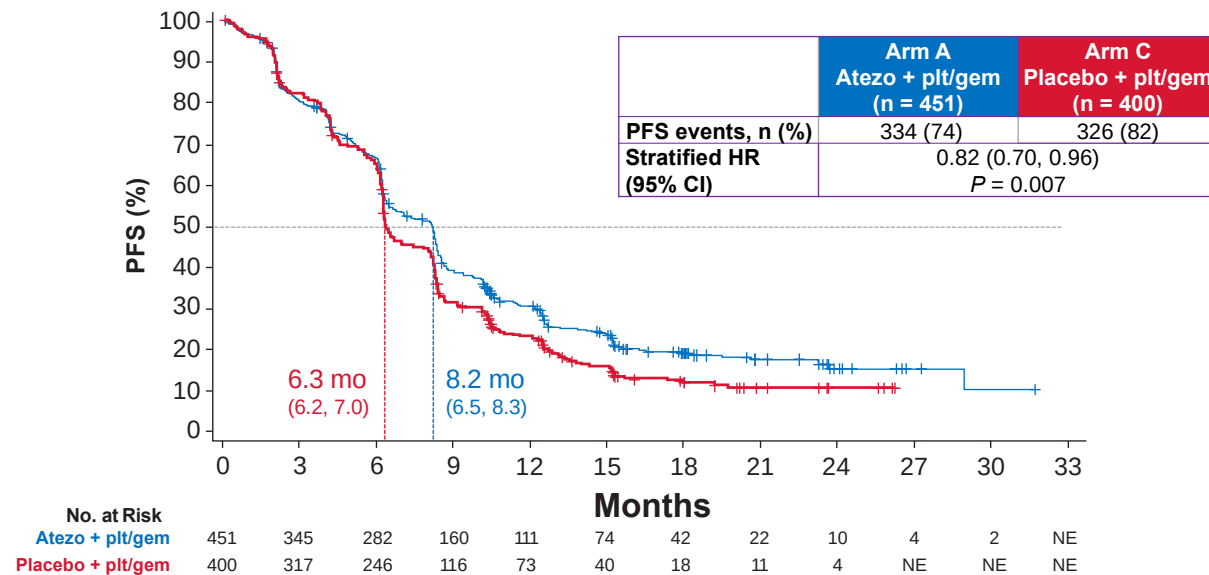


IMvigor 130✓
Keynote 361✓
Checkmate 901 (substudy)
NILE

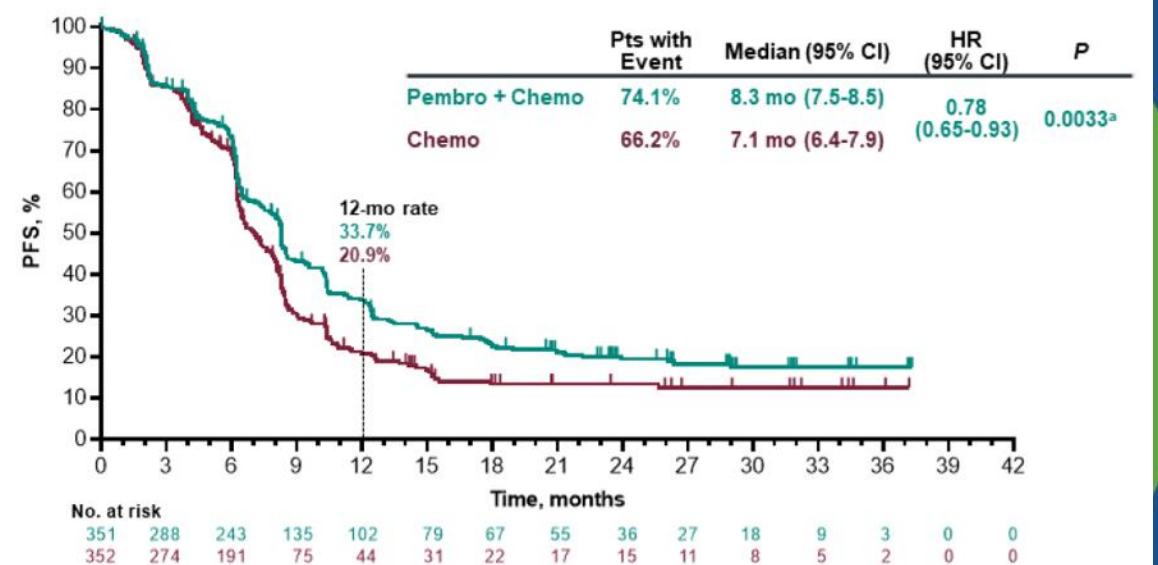


DANUBE✓
Checkmate 901 (main study)
NILE (sort of...)

Platinum-based Chemo + Anti-PD-1/PD-L1 Leads to Minor Improvements in PFS in ITT

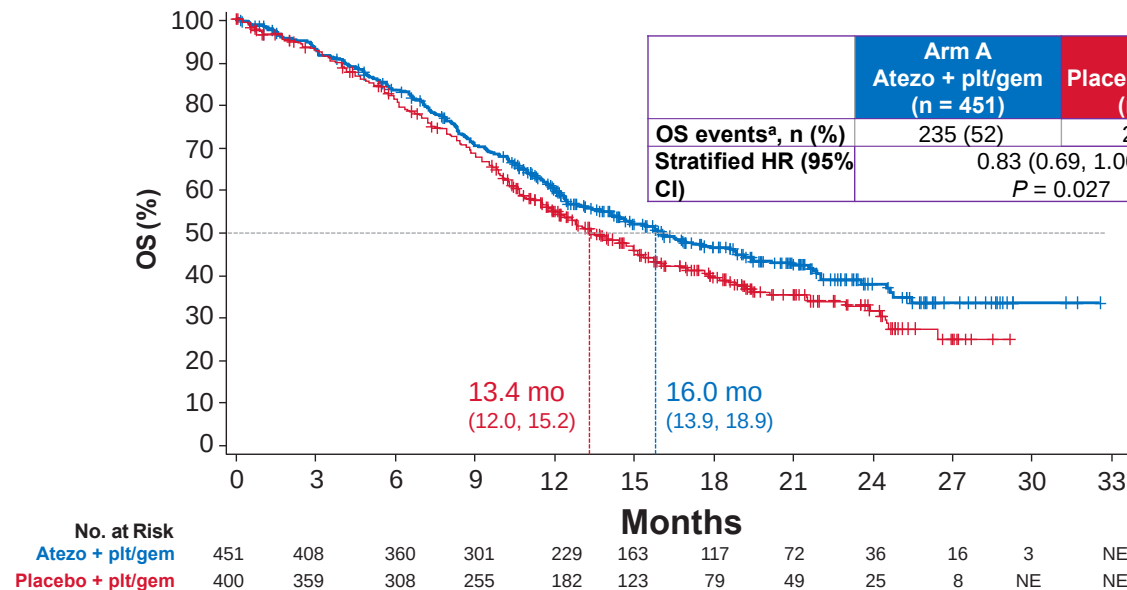


IMvigor 130

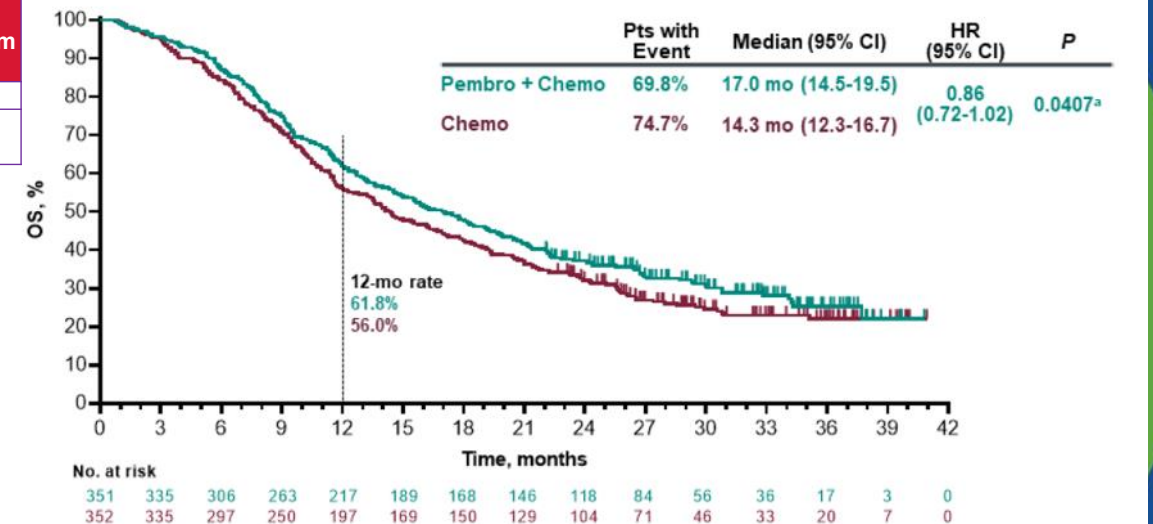


Keynote 361

Platinum-based Chemo + Anti-PD-1/PD-L1 Leads to Non-Significant Improvements in OS in ITT



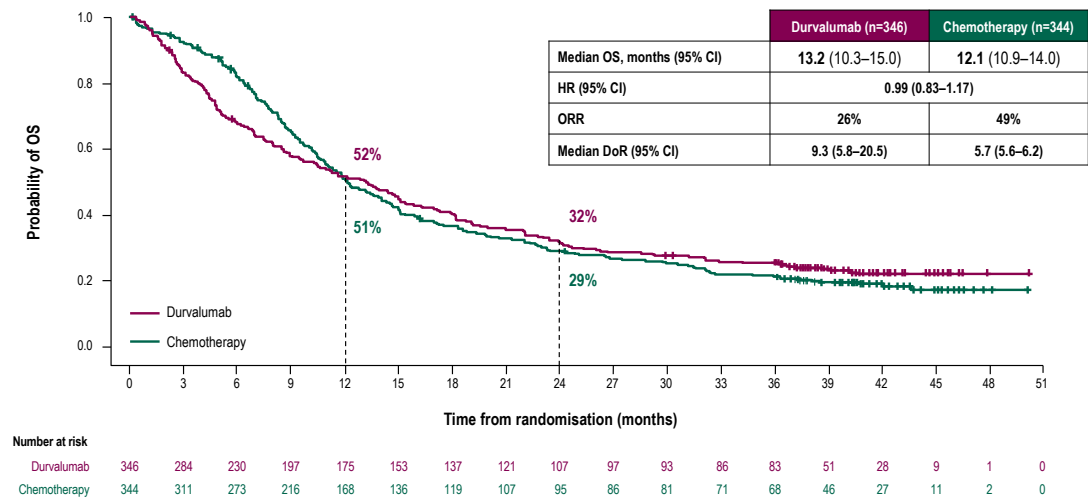
IMvigor 130



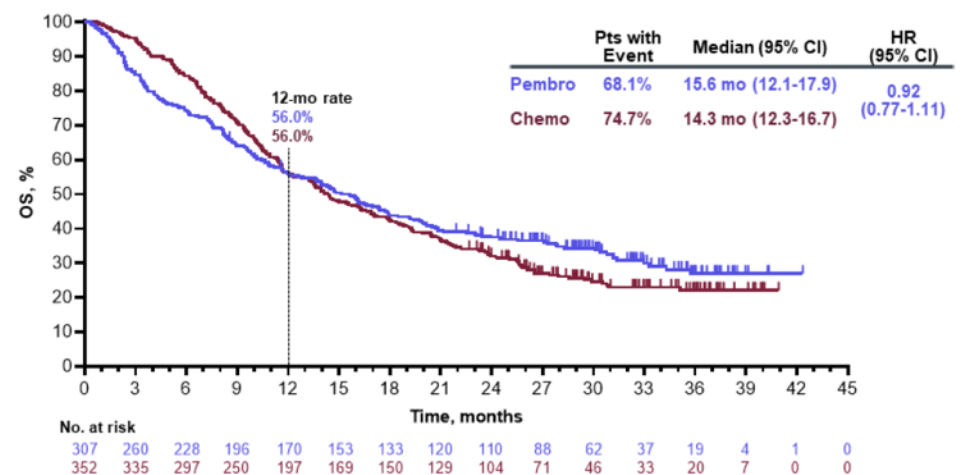
Keynote 361

Platinum-based Chemo vs Anti-PD-1/PD-L1 in ITT Populations

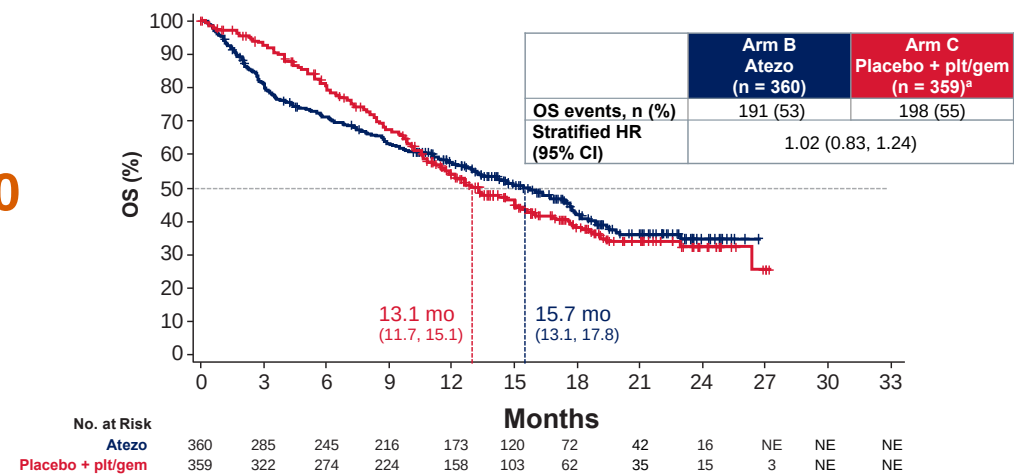
DANUBE



Keynote 361



IMVIGOR 130



Galsky MD, et al. *Lancet*. 2020;395(10236):1547-1557. Alva, et al. *Ann Oncol*. 2020;31 (suppl_4): S1142-S1215. Powles T, et al. *Lancet Oncol*. 2020;21(12):1574-1588.

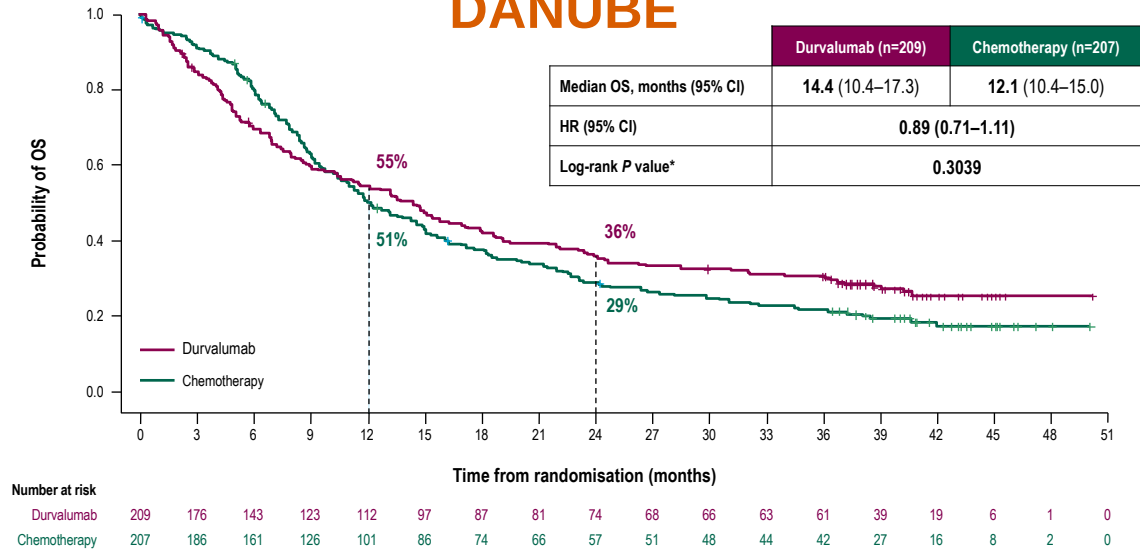
PD-L1 Testing...Clear as Mud?

Drug	Biomarker	Scoring
Pembrolizumab	22C3	TC + IC
Atezolizumab	SP142	IC
Nivolumab	28-8	TC
Durvalumab	SP263	TC + IC
Avelumab	73-10	TC + IC

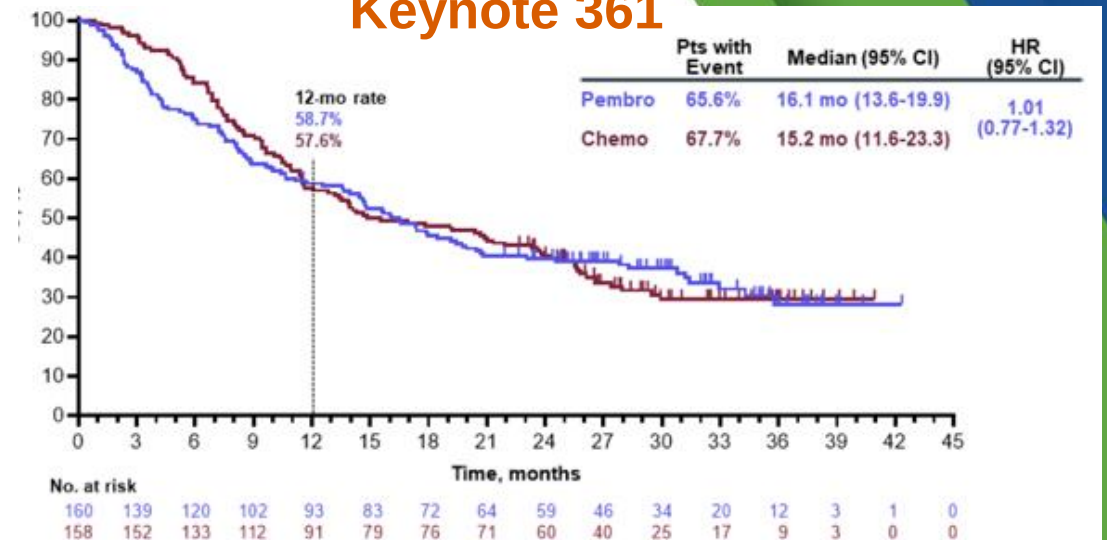
TC, tumor cell; IC, immune cell

Platinum-based Chemo vs Anti-PD-1/PD-L1 in PD-L1+ Populations

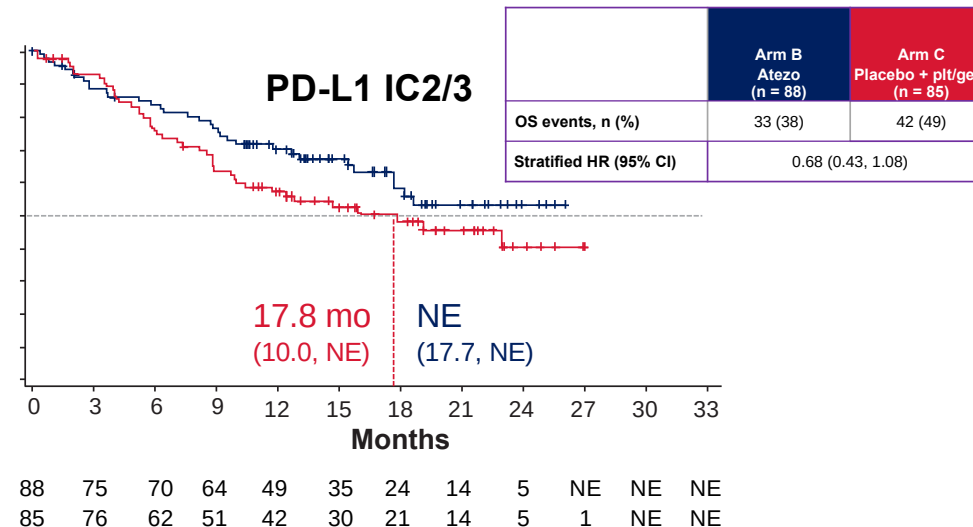
DANUBE



Keynote 361

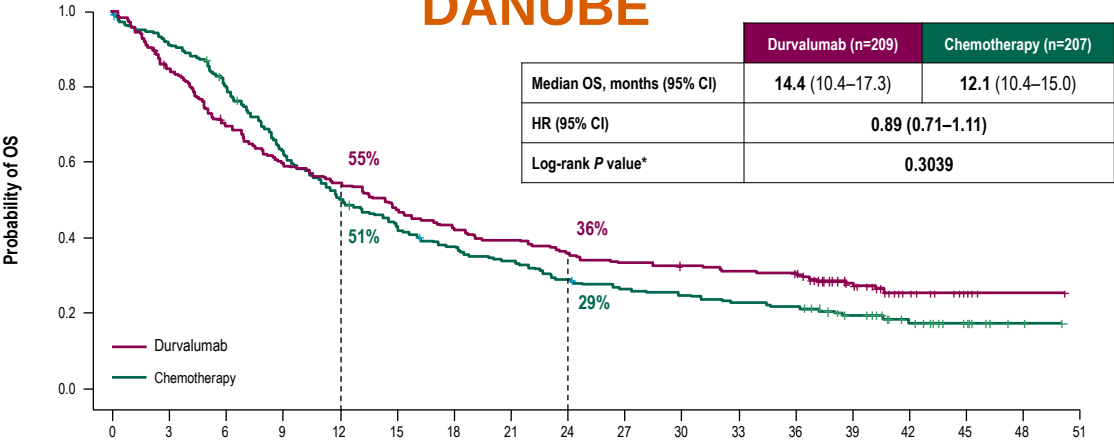


IMVIGOR 130



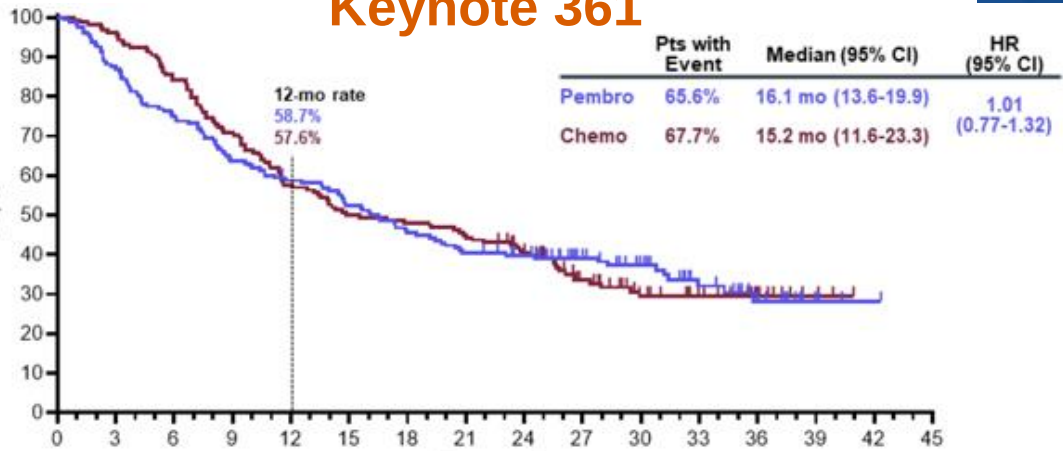
Platinum-based Chemo vs Anti-PD-1/PD-L1 in PD-L1+ Populations

DANUBE



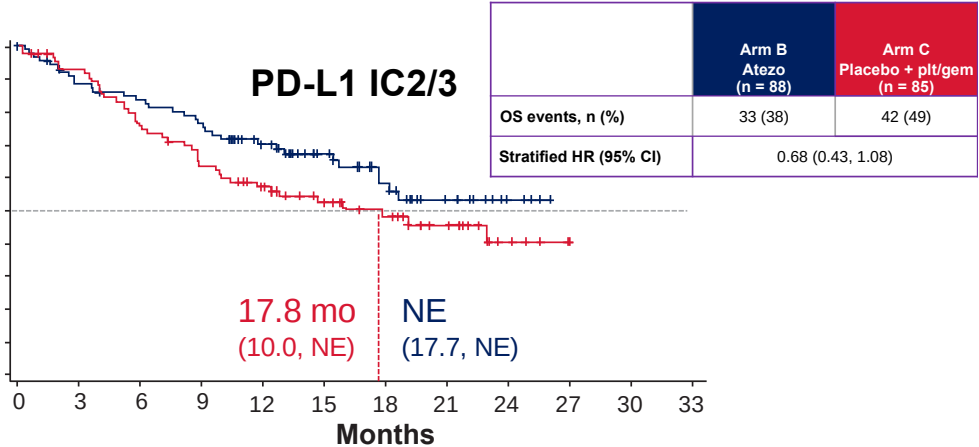
PD-L1+ (SP263) = 60%

Keynote 361



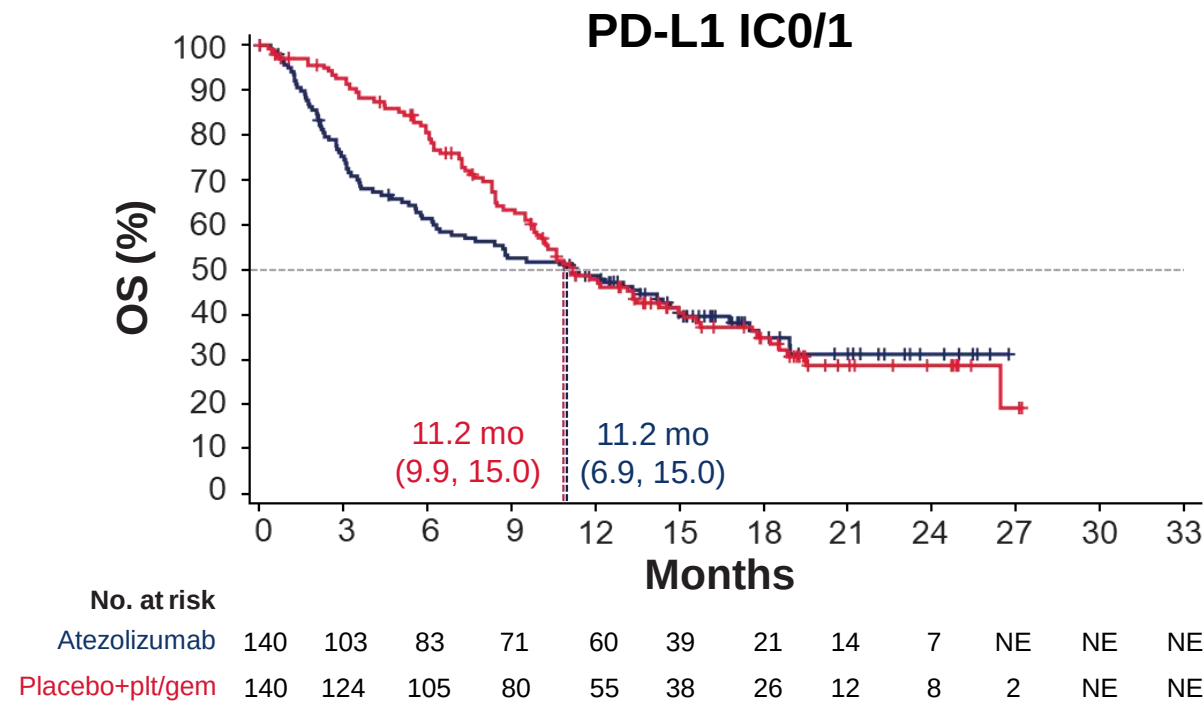
PD-L1+ (22C3) = 51%

IMVIGOR 130

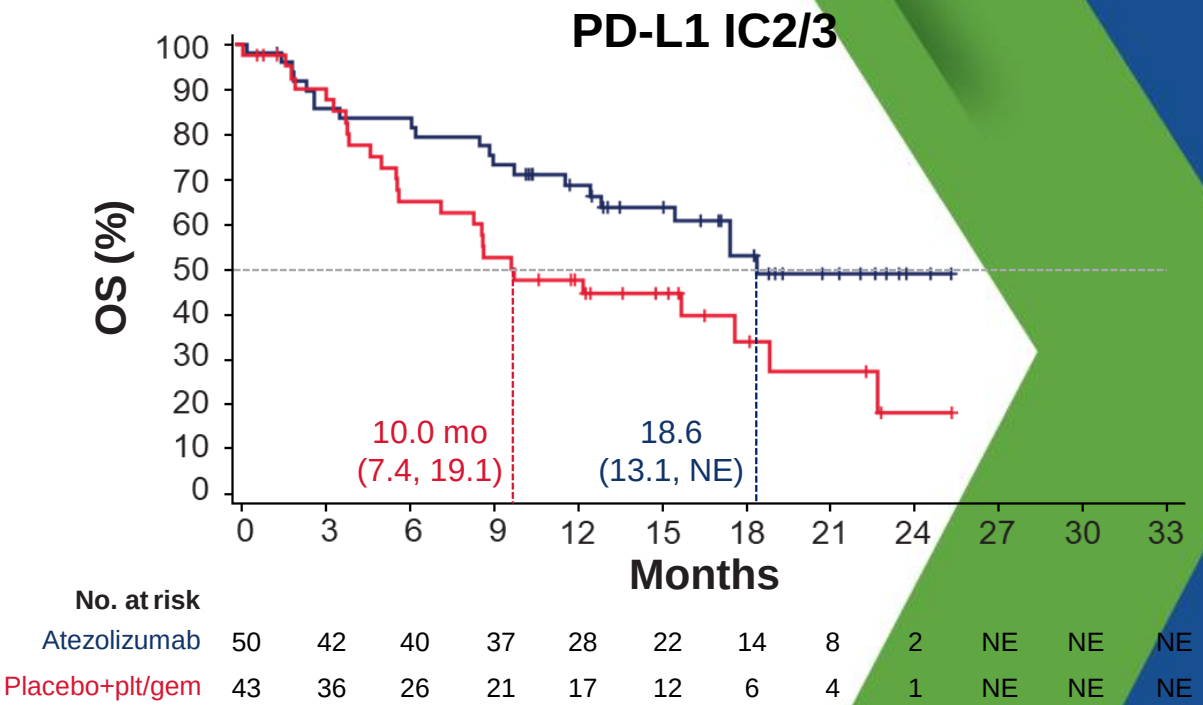


PD-L1+ (SP142) = 24%

What About the Current Label (ie, Cisplatin-Ineligible + PD-L1 “high”)?

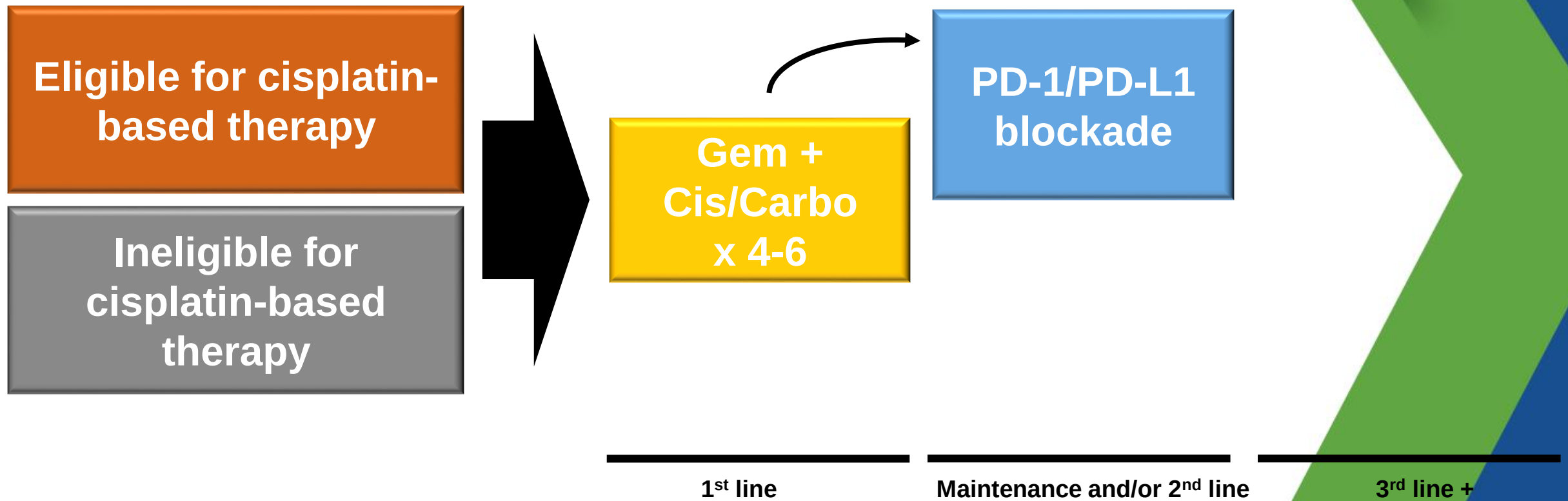


	Atezolizumab (Arm B) (n=140)	Placebo + plt/gem (Arm C) (n=140)
OS events	85	85
OS HR (95% CI)	1.11 (0.82, 1.51)	
ORR (95% CI), % ^a	16 (10, 23)	42 (34, 51)



	Atezolizumab (Arm B) (n=50)	Placebo + plt/gem (Arm C) (n=43)
OS events	21	26
OS HR (95% CI)	0.53 (0.30, 0.94)	
ORR (95% CI), %	38 (25, 53)	33 (19, 49)

Metastatic UC: 2021



Management of mUC

Patient population	Management
Cisplatin-eligible	Platinum-based chemotherapy ↗ If no disease progression → Avelumab maintenance ↘ If disease progression → Pembrolizumab Avelumab Nivolumab*
Cisplatin-ineligible	PD-L1(+) → Atezolizumab* Pembrolizumab* PD-L1(-) → Carboplatin-based chemotherapy
Cisplatin- and carboplatin-ineligible	Atezolizumab* Pembrolizumab*

**Accelerated approval contingent on confirmatory trials as of Guideline publication.*

Webinar outline

- Introduction to the Guideline
- Biomarkers in urothelial cancer
- Non-muscle invasive bladder cancer
- **Advanced urothelial cancer**
 - First-line immunotherapy
 - Second-line immunotherapy
- Future directions for immunotherapy in urothelial cancer

Approved checkpoint inhibitors for mUC – *post-platinum*

Drug	Indication	Dose
Avelumab	Advanced/metastatic UC	10 mg/kg Q2W
Nivolumab	Advanced/metastatic UC	240 mg Q2W or 480 mg Q4W
Pembrolizumab	Advanced/metastatic UC	200 mg Q3W or 400 mg Q6W

Trials in R/R mUC

Trial	Treatment arm(s)	Primary endpoint	Key results
JAVELIN Solid Tumor	Avelumab	ORR	ORR: 17%
JAVELIN 100	BSC +/- avelumab (maintenance post-chemo)	OS	OS HR: 0.69, p=0.001 PD-L1+ OS HR: 0.56, p<0.001

Trial	Treatment arm(s)	Primary endpoint	Key results
CheckMate 275	Nivolumab	ORR	ORR: 20.7%
KEYNOTE-045	Pembrolizumab vs. chemotherapy	OS PFS	OS HR: 0.70, p < 0.001 PFS HR: 0.96, p = 0.31

Management of mUC - before

Patient population	Management
Cisplatin-eligible	Platinum-based chemotherapy ↗ If no disease progression → Avelumab maintenance ↘ If disease progression → Pembrolizumab Avelumab Nivolumab*
Cisplatin-ineligible	PD-L1(+) → Atezolizumab* Pembrolizumab* PD-L1(-) → Carboplatin-based chemotherapy
Cisplatin- and carboplatin-ineligible	Atezolizumab* Pembrolizumab*

**Accelerated approval contingent on confirmatory trials as of Guideline publication.*

Management of mUC - after

Patient population	Management
Cisplatin-eligible	Cisplatin-based chemotherapy - If no disease progression → Avelumab maintenance - If disease progression → Pembrolizumab, Avelumab, Nivolumab*
Cisplatin-ineligible	PD-L1(+) → Carboplatin-based chemotherapy → Same options as above Atezolizumab*, Pembrolizumab* PD-L1(-) → Carboplatin-based chemotherapy
Cisplatin- and carboplatin-ineligible	Atezolizumab*, Pembrolizumab*

**Accelerated approval contingent on confirmatory trials as of Guideline publication.*

Webinar outline

- Introduction to the Guideline
- Biomarkers in urothelial cancer
- Non-muscle invasive bladder cancer
- Advanced urothelial cancer
- Future directions for immunotherapy in urothelial cancer
 - Adjuvant therapy in UC
 - Combination ICI in UC
 - Enfortumab vedotin + pembrolizumab

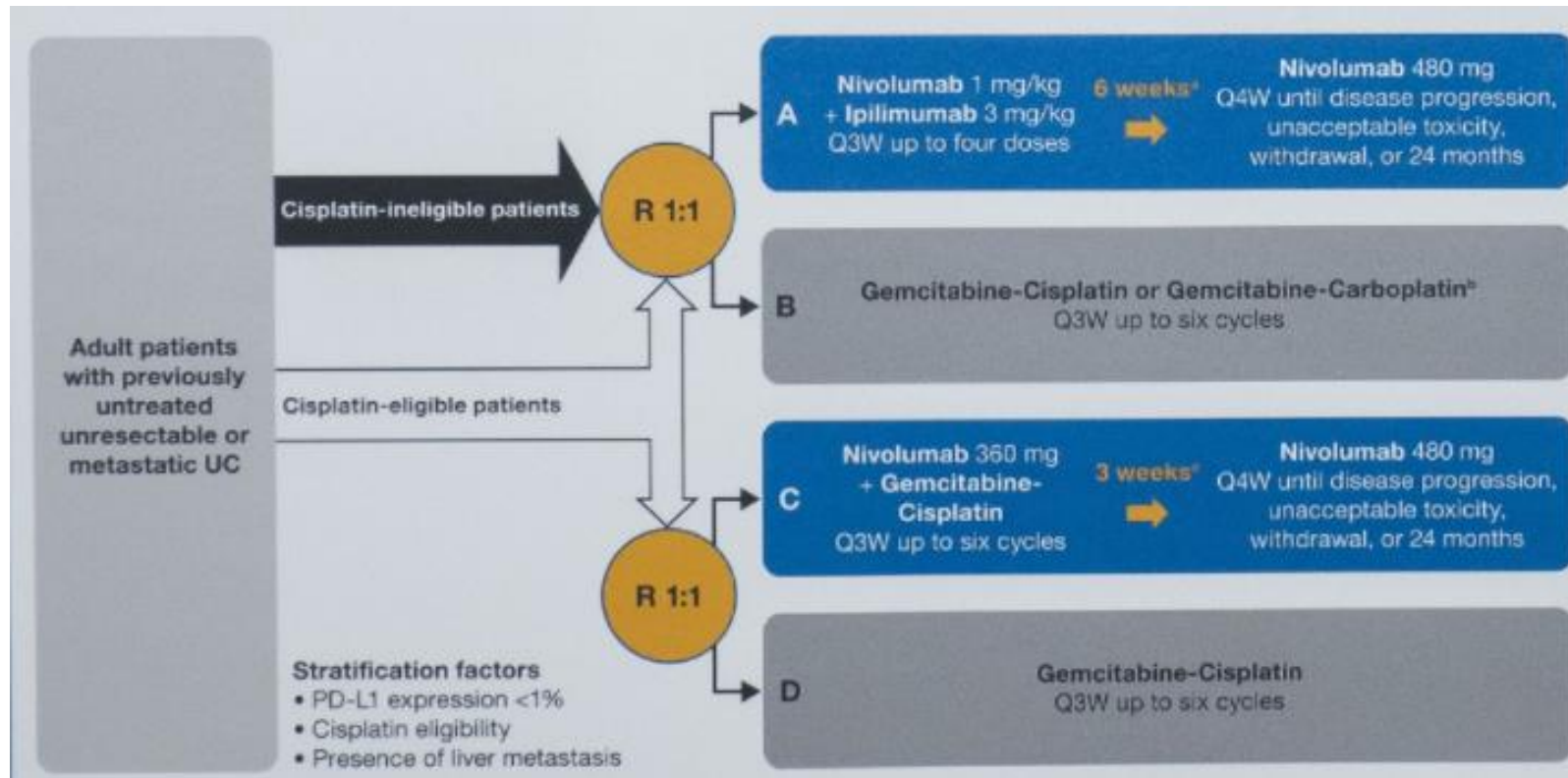
CheckMate 274

Treatment arm	mDFS	DFS @ 6 months	DFS @ 6 months (PD-L1+)	TRAEs grade 3+
Nivolumab	20.8 months	74.9%	74.5%	17.9%
Placebo	10.8 months	60.3%	55.7%	7.2%

Drug	Indication	Dose
Nivolumab	Adjuvant treatment of UC at high risk of recurrence after radical resection	240 mg Q2W or 480 mg Q4W

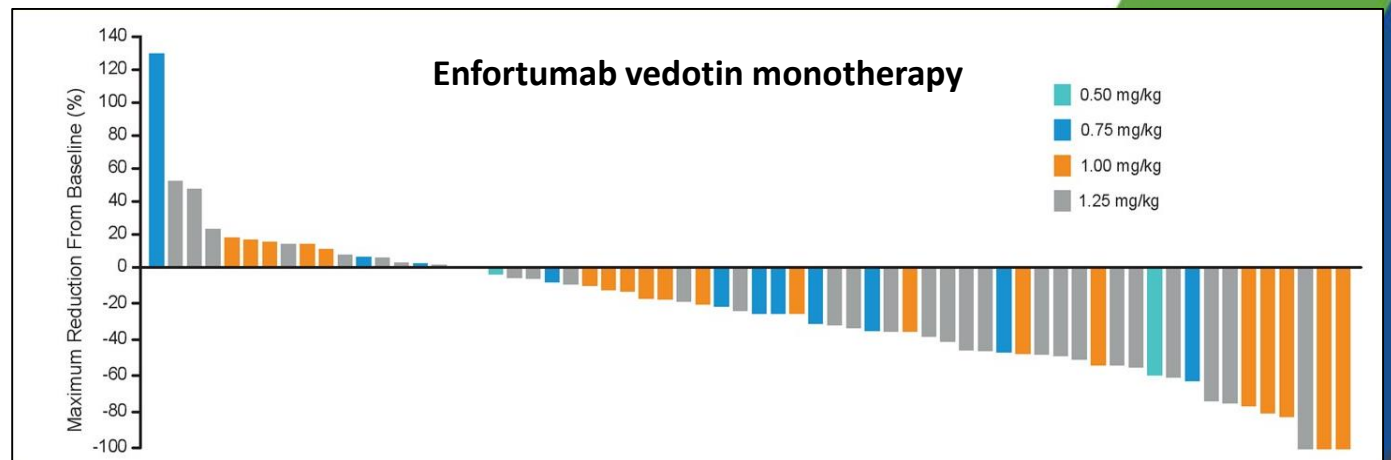
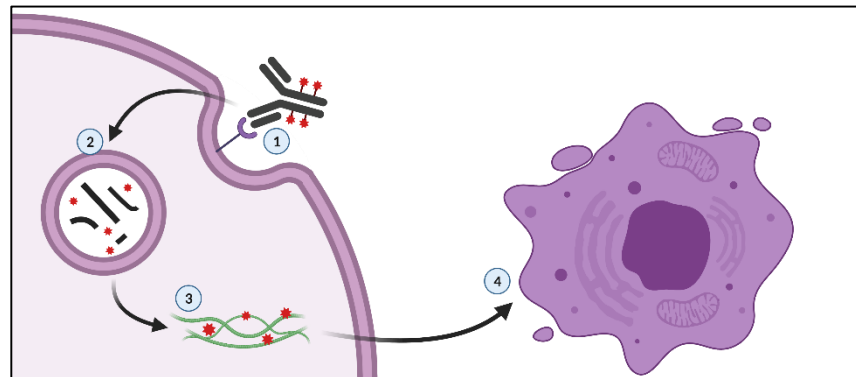
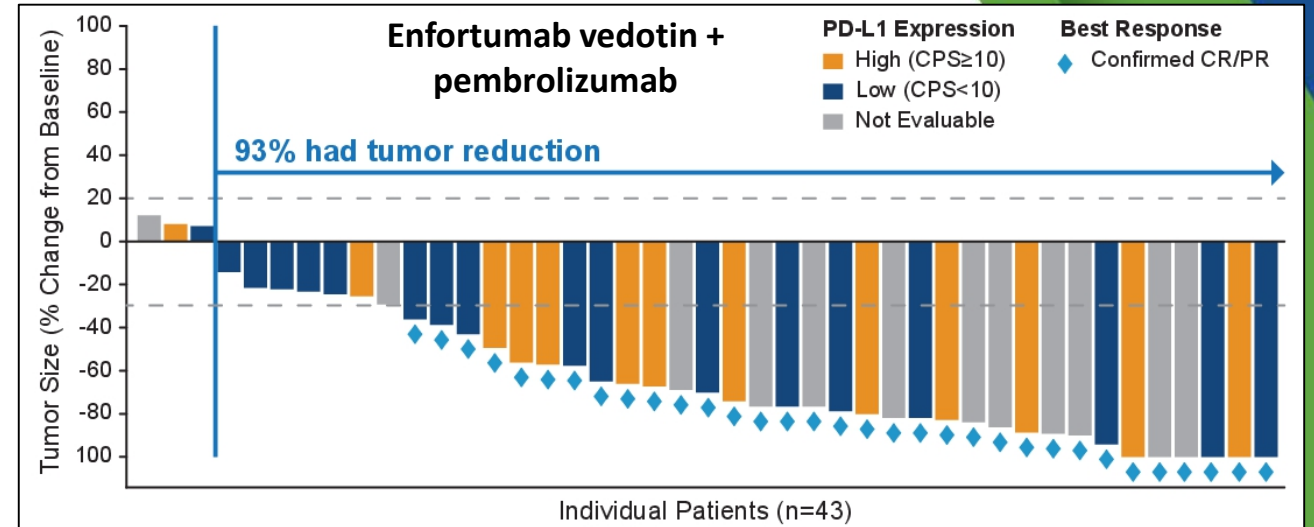
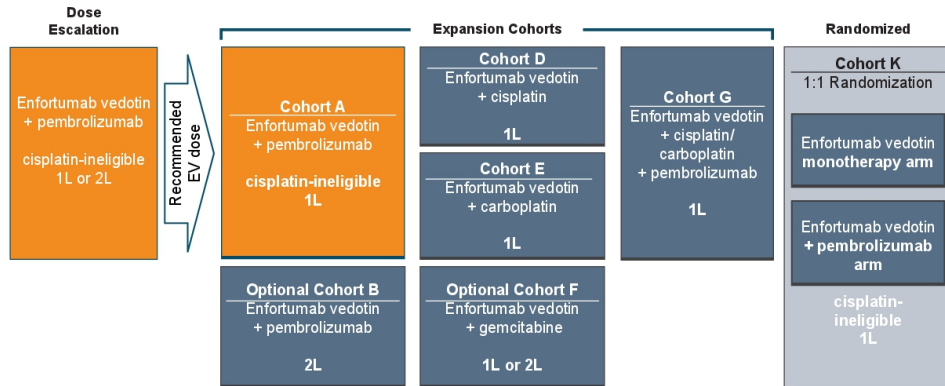
Nivolumab was approved for this indication 8/19/21, after publication of the Guideline.

CheckMate 901



Enfortumab vedotin: EV-103

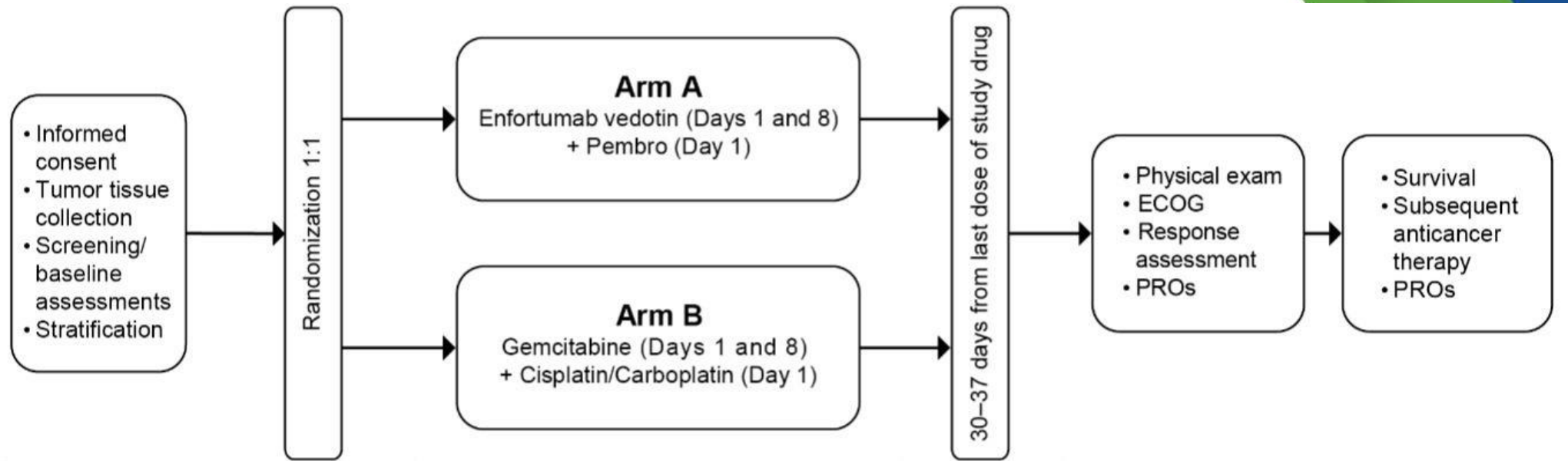
EV-103 Study Design for Ia/mUC Cohorts



Enfortumab Vedotin plus Pembrolizumab: EV-302 Trial Schema

Eligibility

- Locally advanced or metastatic urothelial carcinoma
- 1st line systemic therapy
- Platinum-eligible



Primary Endpoint: PFS, OS

**Secondary Endpoints: ORR, DOR,
DCR, QOL, PRO, Safety**



Practical Management Pearls for Immunotherapy for the Treatment of Urothelial Cancer

October 13, 2021, 4 - 5 p.m. ET

Practical Management Pearls for Immune Checkpoint Inhibitor-related Adverse Events

September 16, 2021, 11:30 a.m. - 12:30 p.m. ET

Learn more and register at:

<https://www.sitcancer.org/research/cancer-immunotherapy-guidelines/webinars>

Targets for Cancer Immunotherapy: A Deep Dive Seminar Series

Eight online seminars will address key questions in the field of cancer immunotherapy **drug development**

SEMINAR 5: MACROPHAGE BIOLOGY FOR ANTI-TUMOR IMMUNITY –
October 7, 2021, 10:30 a.m. - 12:30 p.m. ET

SEMINAR 6: THE 4-1BB PATHWAY – October 21, 2021, 3:30 - 5:30 p.m. ET

Learn more and register at:

<https://www.sitcancer.org/education/deepdive>



A Focus on Gastrointestinal Cancers

September 15, 2021, 12 – 4:10 PM ET

CME-, CPE-, CNE-, MOC-certified

Learn more and register at:

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