# Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Urothelial Bladder Carcinoma

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#### Dr Love — Disclosures

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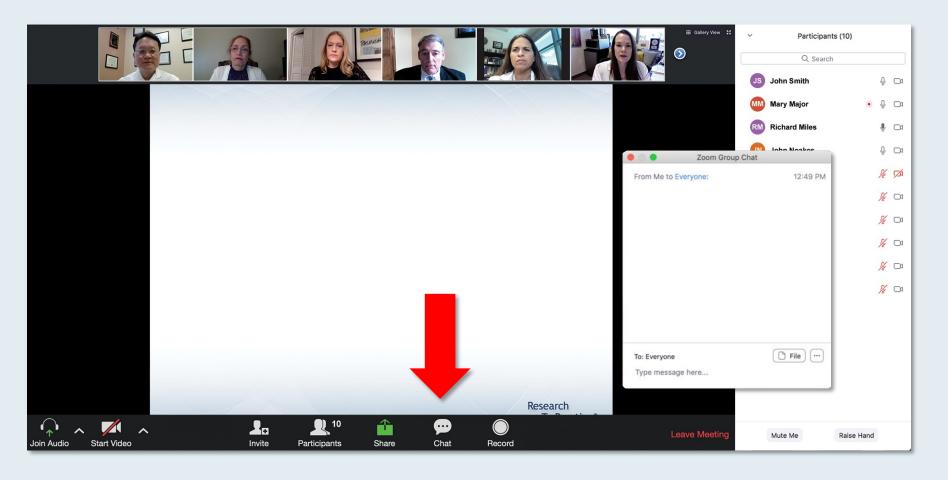


## **Dr Rosenberg — Disclosures**

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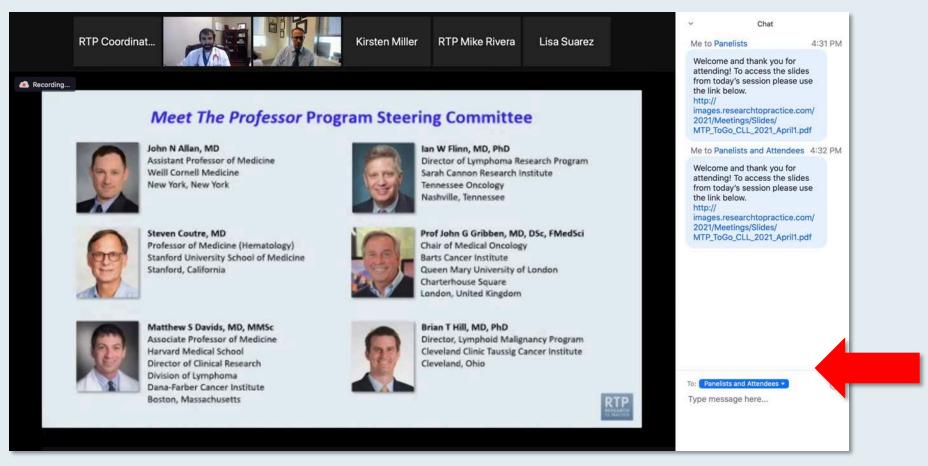


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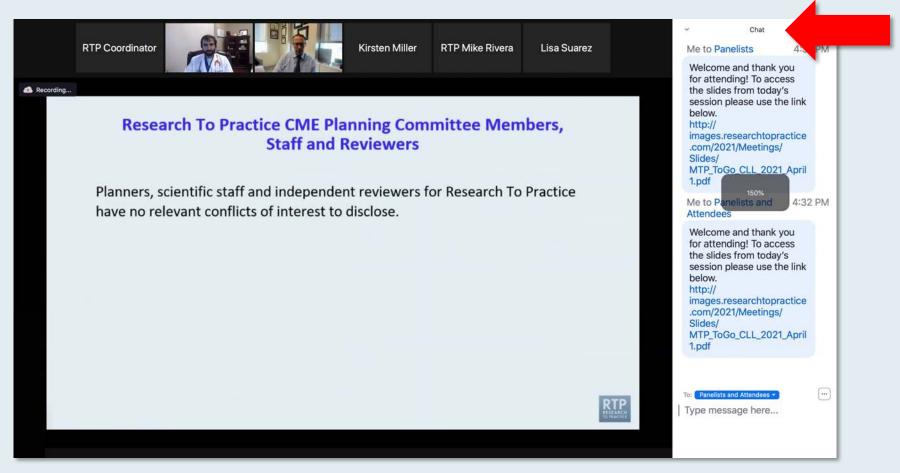


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# ONCOLOGY TODAY

WITH DR NEIL LOVE

**Key Presentations on Genitourinary Cancers from the 2021 ASCO Annual Meeting** 



DR ARJUN BALAR
NYU PERLMUTTER CANCER CENTER









# Meet The Professor

# Optimizing the Selection and Sequencing of Therapy for Patients with HER2-Positive Breast Cancer

Wednesday, September 22, 2021 5:00 PM - 6:00 PM ET

Faculty
Sara M Tolaney, MD, MPH



# **Fall Oncology Nursing Series**

A Complimentary NCPD-Accredited Virtual Curriculum

# **Hodgkin and Non-Hodgkin Lymphomas**

Thursday, September 23, 2021 5:00 PM - 6:00 PM ET

**Faculty** 

John P Leonard, MD Amy Goodrich, CRNP



# Meet The Professor Immunotherapy and Novel Agents in Gynecologic Cancers

Friday, September 24, 2021 12:00 PM – 1:00 PM ET

**Faculty** 

Martee L Hensley, MD, MSc



# Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancers

Monday, September 27, 2021 5:00 PM - 6:00 PM ET

**Faculty** 

Zev Wainberg, MD, MSc



# Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Triple-Negative Breast Cancer

Tuesday, September 28, 2021 5:00 PM - 6:00 PM ET

Faculty
Professor Peter Schmid, MD, PhD



# Meet The Professor Optimizing the Clinical Management of Hodgkin and Non-Hodgkin Lymphomas

Wednesday, September 29, 2021 5:00 PM – 6:00 PM ET

Faculty
Brad S Kahl, MD



# Meet The Professor Optimizing the Selection and Sequencing of Therapy for Patients with Renal Cell Carcinoma

Friday, October 1, 2021 12:00 PM – 1:00 PM ET

Faculty
Hans Hammers, MD, PhD



## Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.



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## **Meet The Professor** Program Participating Faculty



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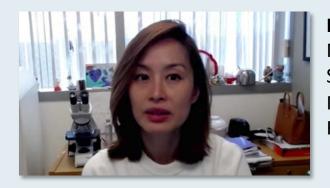
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Florida Cancer Specialists and
Research Institute
Naples, Florida



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**Introduction: ADCs in the News!!** 

**MODULE 1: Case Presentations** 

- Dr Moon: A 73-year-old man with metastatic UBC
- Dr Malik: An 84-year-old woman with non-muscle-invasive UBC and an FGFR2 tumor mutation
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# Case Presentation – Dr Moon: A 73-year-old man with metastatic UBC

- PMH: DM, HTN, Peripheral neuropathy (grade 1), CAD and ECOG 0-1
- Presents with cough x 3 months
- CT chest: Bilateral lung nodules varying between 1-2.5 cm
  - Biopsy: Urothelial carcinoma
- Gemcitabine/cisplatin x 3, with PD → Platinum-refractory
- Pembrolizumab, with PR and grade 1 pneumonitis managed with inhaled steroids

#### Questions

With COVID, what are the schedules that you feel most comfortable with for these medications?
 Do you think that there is any difference in efficacy and toxicity between different schedules?



**Dr Helen Moon** 



# Case Presentation – Dr Malik: An 84-year-old woman with non-muscle-invasive UBC and an FGFR2 tumor mutation



**Dr Henna Malik** 

- PMH: Diabetes mellitus, hypertension and hyperlipidemia
- Presented with hematuria intermittent over the past 1 year and treated for UTI with antibiotics that continued to recur
- Cystoscopy: High-grade, non-muscle-invasive urothelial cell carcinoma, approximately 2 cm in the posterior bladder wall
- CT abdomen/pelvis: No metastatic disease. Labs normal, except creatinine 1.2
- Pembrolizumab 200 mg IV q3 weeks
- NGS: FGFR2 mutation
- Erdafitinib → decrease in disease burden and patient tolerating treatment well with some mucositis

#### Questions

- How do you sequence erdafitinib and enfortumab vedotin? Where does sacituzumab govitecan fit in?
- How do your diabetic patients tolerate erdafitinib? How frequently should we schedule their eye exams? Can it worsen their retinopathy? How would you dose-modify this drug?



## Case Presentation – Dr Ibrahim: A 72-year-old woman with metastatic UBC – PD-L1 30%

- Metastatic UBC, PD-L1 30%
- Cisplatin/gemcitabine
- Clinical trial of nivolumab and sitravatinib → PD
- Enfortumab vedotin, with response
  - Ocular toxicity, with conjunctiva erythema
  - Skin toxicity, with pruritic rash on upper and lower extremities, that is not responding to methylprednisolone dose pack and dose reduction

- If a patient has disease progression on platinum-based therapy and has a low PD-L1 level, would you consider giving the enfortumab prior to immune checkpoint inhibitor therapy?
- What is the status of the clinical trial evaluating enfortumab vedotin and immune checkpoint inhibitor therapy in the front-line setting? Are the results expected relatively soon?
- How do you sequence enfortumab vedotin, erdafitinib, and sacituzumab govitecan for patients with metastatic disease who progress on platinum-based therapy?



**Dr Sulfi Ibrahim** 



### Case Presentation – Dr Brown: A 74-year-old woman with metastatic UBC



**Dr Gordon Brown** 

- Initial diagnosis of muscle-invasive UBC → cystectomy and anterior vaginectomy
   with urethrectomy
  - EBRT and cisplatin/gemcitabine followed by surveillance
- 5 years later develops metastases to pubic bone and femur
- Pembrolizumab → dose interrupted due to development of myositis → PD
- Enfortumab vedotin → lower extremity discomfort but stable disease

- What are your thoughts about the tolerability of the antibody-drug conjugates in patients with advanced bladder cancer compared to the historical tolerability of additional systemic chemotherapy in that same patient population?
- What is your opinion of the tolerability of erdafitinib in patients with metastatic muscle-invasive bladder cancer? How do you manage the associated toxicity issues?



# Case Presentation – Dr Santiago: A 56-year-old man with metastatic UBC – PD-L1-negative

**Dr Ferdy Santiago** 

- 1/2019 TURP: Invasive high-grade urothelial carcinoma, with RAF fusion, PD-L1-negative
- Palliative RT
- PET: Metastases to lung, LN, and bones
- Gemcitabine/cisplatin x 8 and zoledronic acid, with excellent response
- 12/2019 re-staging: Widespread PD
- Atezolizumab, with PD
- 3/2020: Enfortumab vedotin x 6 months, with improvement in disease followed by PD
  - Developed a significant skin rash 3 to 4 months into treatment that was managed by steroids

- With enfortumab vedotin, how do you go about differentiating between a drug-related rash and some other type of paraneoplastic rash?
- What are some strategies that can be employed to help mitigate the rash?



# Case Presentation – Dr Hafron: A 76-year-old woman with BCG-refractory non-muscle-invasive bladder cancer carcinoma in situ



**Dr Jason Hafron** 

- BCG unresponsive carcinoma in situ
- Elected to start treatment with pembrolizumab
- Initial labs for TSH were normal (TSH 1.2)
- After 3 infusions she began to have severe fatigue, constipation and joint weakness
  - TSH found to be 20.7 immune mediated hypothyroidism
  - Managed with levothyroxine and short course of steroids
- Patient responded and is doing well

#### Question

Do you routinely monitor thyroid studies for patients on pembrolizumab?



# Case Presentation – Dr Ibrahim: A 60-year-old man with BCG-refractory non-muscle-invasive UBC



Dr Sulfi Ibrahim

- Diagnosed with non-muscle-invasive UBC
- Received intravesical BCG and intravesical mitomycin
- Disease recurrence
- Discussed clinical trial of atezolizumab in combination with intravesical gemcitabine therapy

- Would you offer this patient pembrolizumab?
- Are there evolving strategies evaluating combining intravesical treatment along with immunotherapy?



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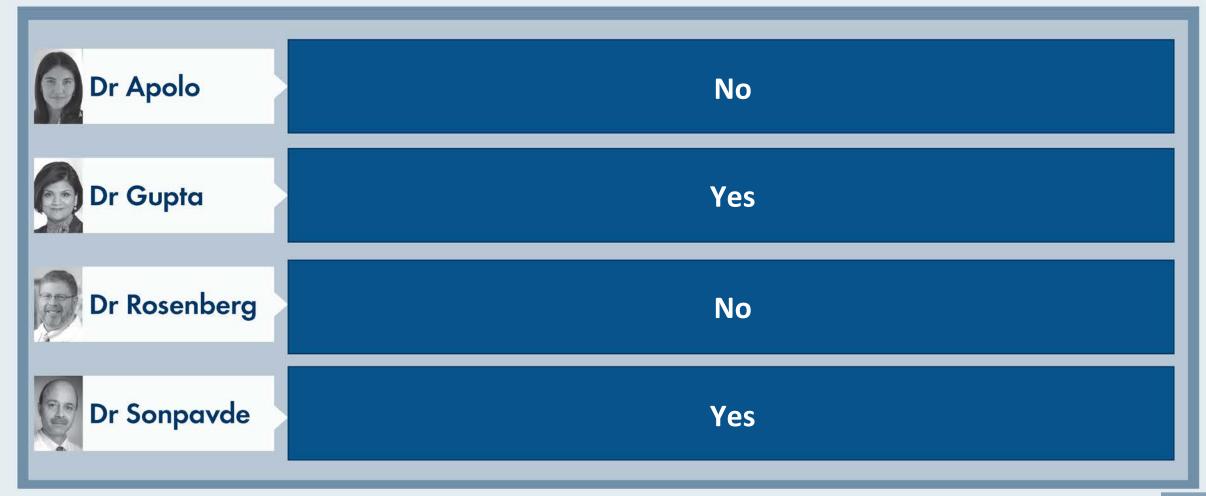
**MODULE 4: Key Data Sets** 



# Current and Emerging Treatment Strategies for Patients with Non-Metastatic Urothelial Bladder Cancer (UBC)

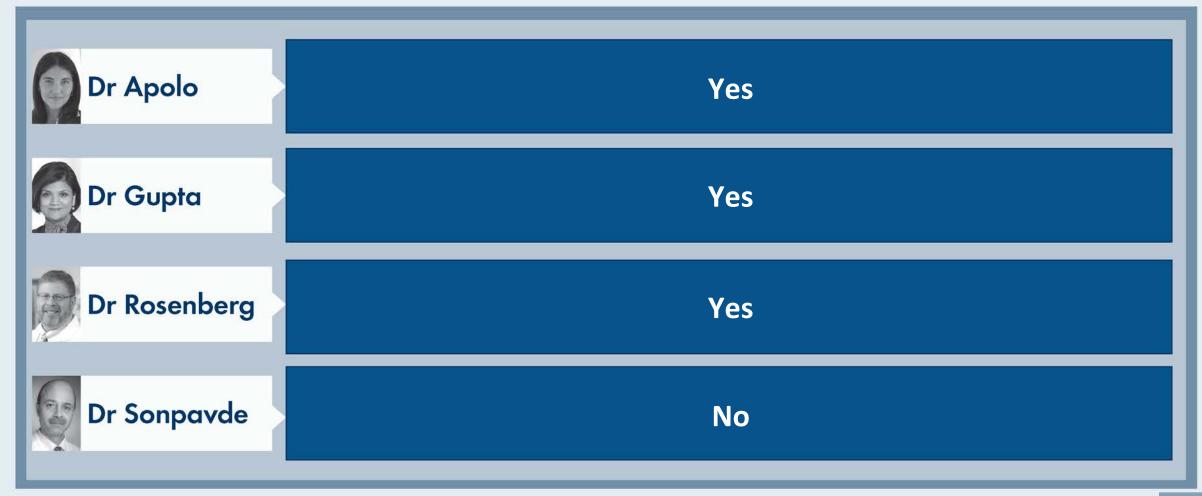


In general, would you recommend pembrolizumab to a 65-yearold patient with BCG-unresponsive non-muscle-invasive UBC who is otherwise healthy and prefers not to undergo cystectomy?



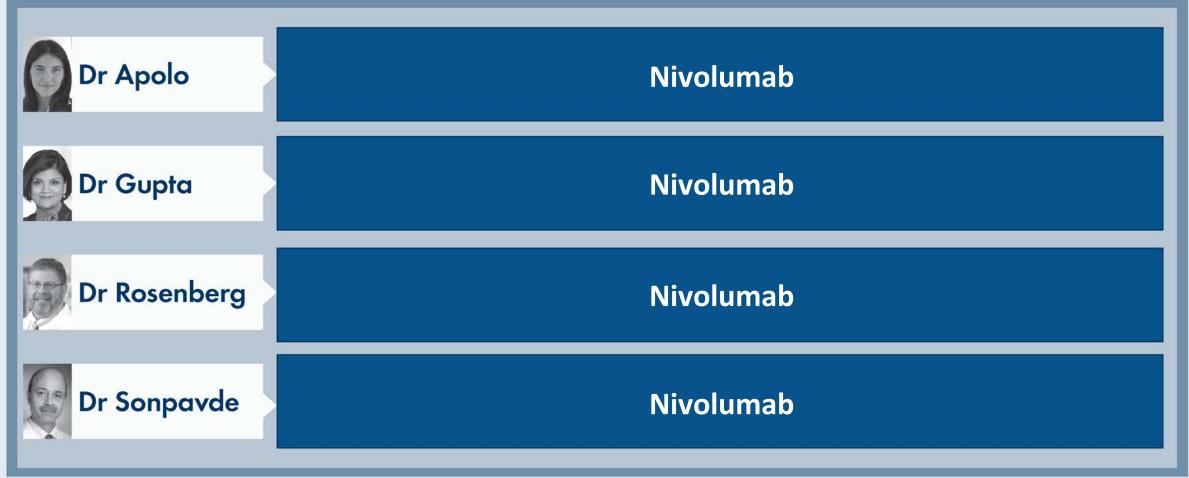


In general, would you recommend pembrolizumab to a 65-year-old patient with BCG-unresponsive non-muscle-invasive UBC who has significant comorbidities and is not a candidate for cystectomy?



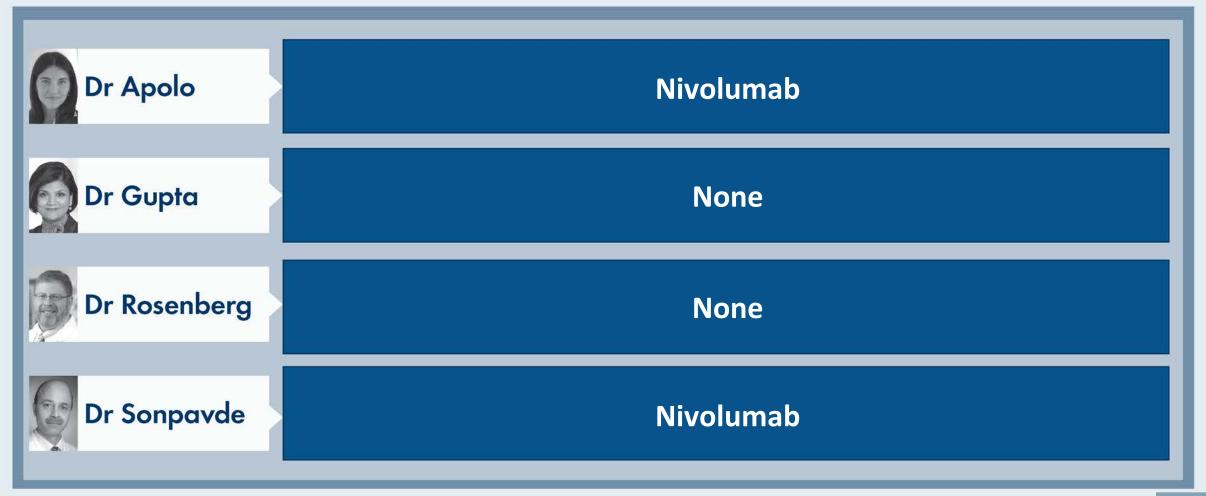


A 65-year-old man receives neoadjuvant dose-dense MVAC for muscle-invasive UBC and undergoes cystectomy, which reveals <u>significant residual disease and a positive pelvic lymph node</u>. PD-L1 = 80%. Regulatory and reimbursement issues aside, what adjuvant systemic therapy, if any, would you recommend?





A 65-year-old man receives neoadjuvant dose-dense MVAC for muscle-invasive UBC and undergoes cystectomy, which reveals <u>small amounts of residual disease</u> and <u>negative pelvic lymph nodes</u>. PD-L1 = 80%. Regulatory and reimbursement issues aside, what adjuvant systemic therapy, if any, would you recommend?

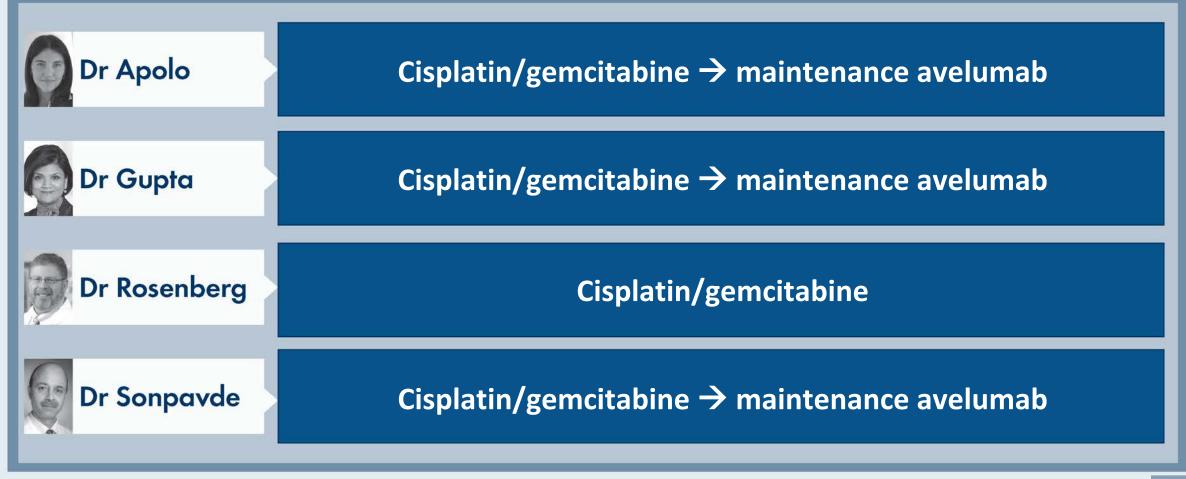




## Optimizing the Selection and Sequencing of Therapy for Patients with Metastatic UBC

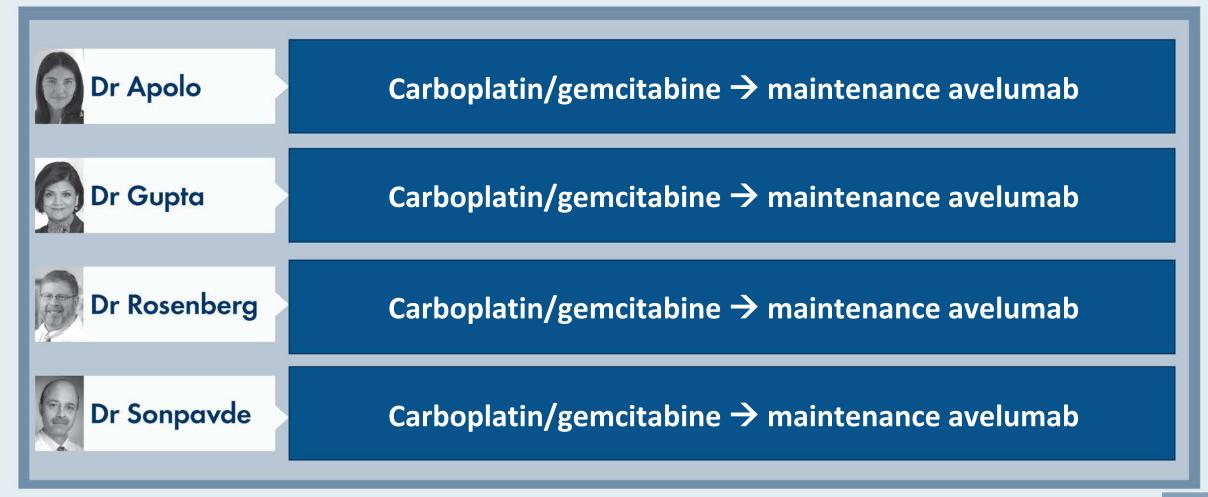


# What would be your preferred first-line treatment regimen for a <u>65-year-old</u> patient with de novo metastatic UBC?



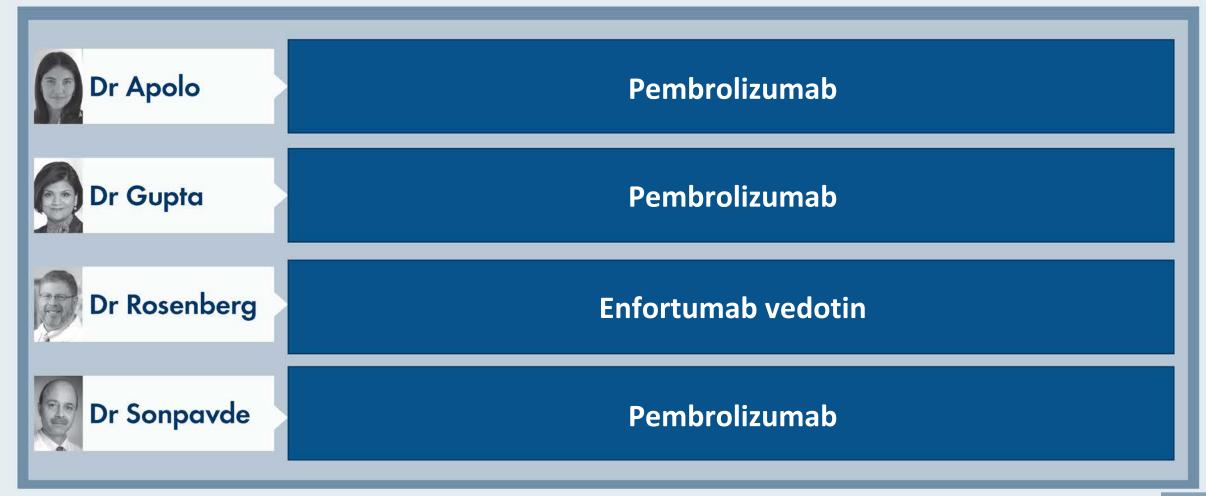


What would be your preferred first-line treatment regimen for an <u>80-year-old</u> patient with de novo metastatic UBC who is not a candidate for <u>cisplatin-based chemotherapy</u>?



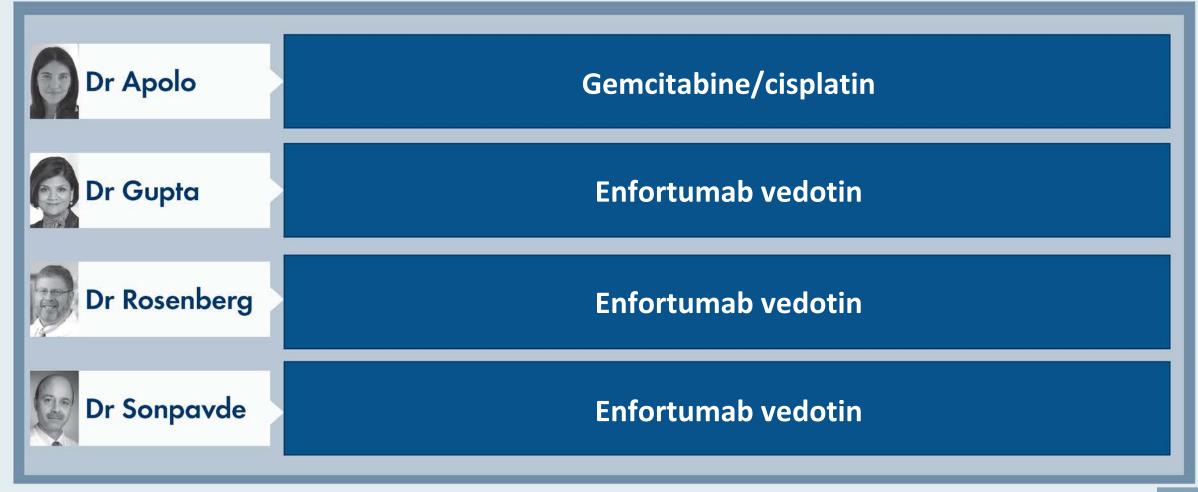


What would you generally recommend for a 65-year-old patient who experiences disease recurrence in the liver 9 months after cystectomy and adjuvant gemcitabine/cisplatin for muscle-invasive FGFR wild-type UBC?



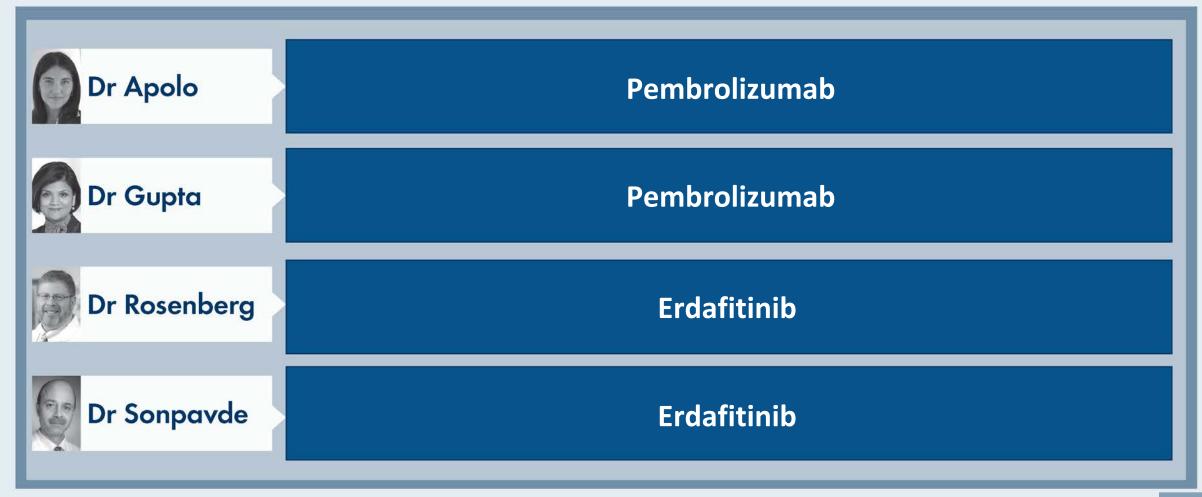


What would you generally recommend for a 65-year-old patient who experiences disease recurrence in the liver 9 months after cystectomy and <u>adjuvant nivolumab</u> for muscle-invasive FGFR wild-type UBC?



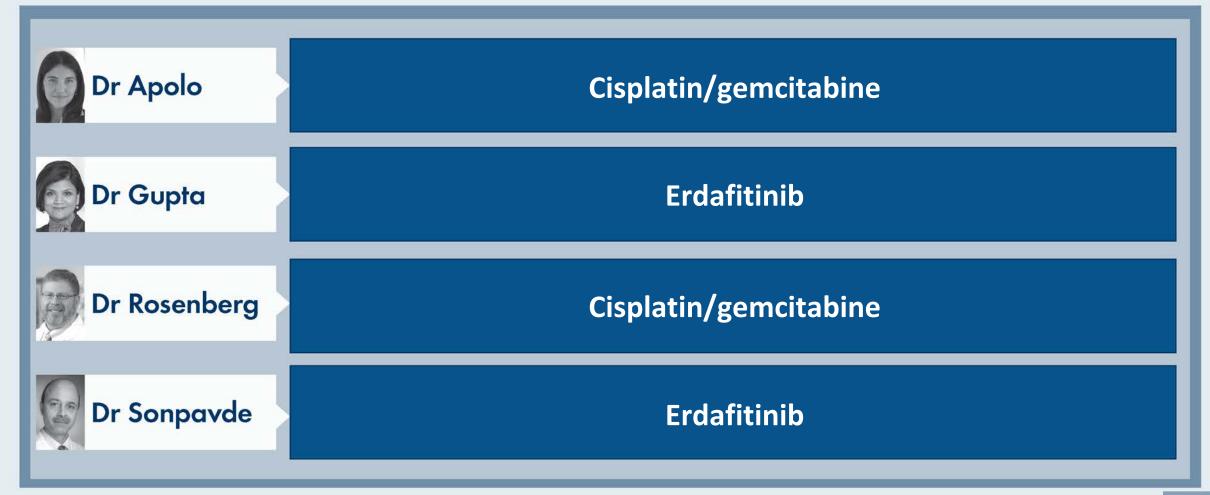


What would you generally recommend for a 65-year-old patient who experiences disease recurrence in the liver 9 months after cystectomy and adjuvant gemcitabine/cisplatin for muscle-invasive UBC who is found to have an FGFR3 mutation?



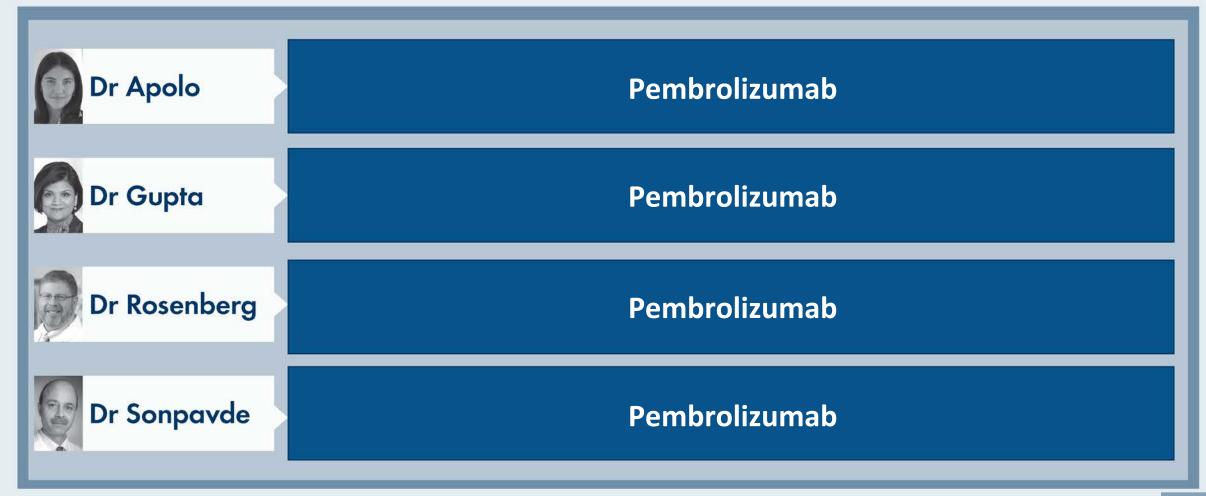


What would you generally recommend for a 65-year-old patient who experiences disease recurrence in the liver 9 months after cystectomy and adjuvant nivolumab for muscle-invasive UBC who is found to have an FGFR3 mutation?



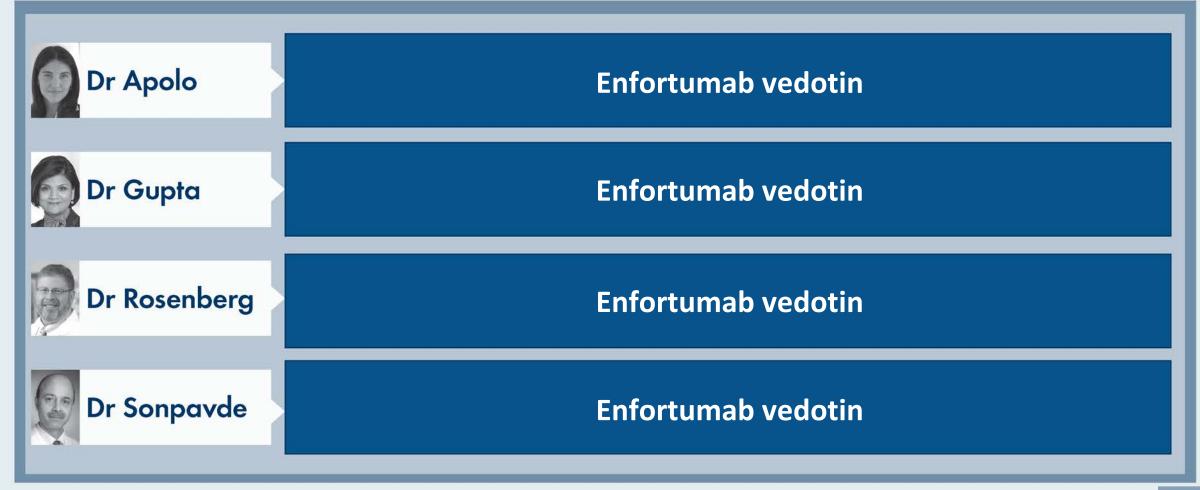


What would you generally recommend as second-line therapy for a 65-year-old patient with <u>FGFR wild-type</u> UBC metastatic to the liver whose disease progresses on first-line <u>cisplatin/gemcitabine</u>?



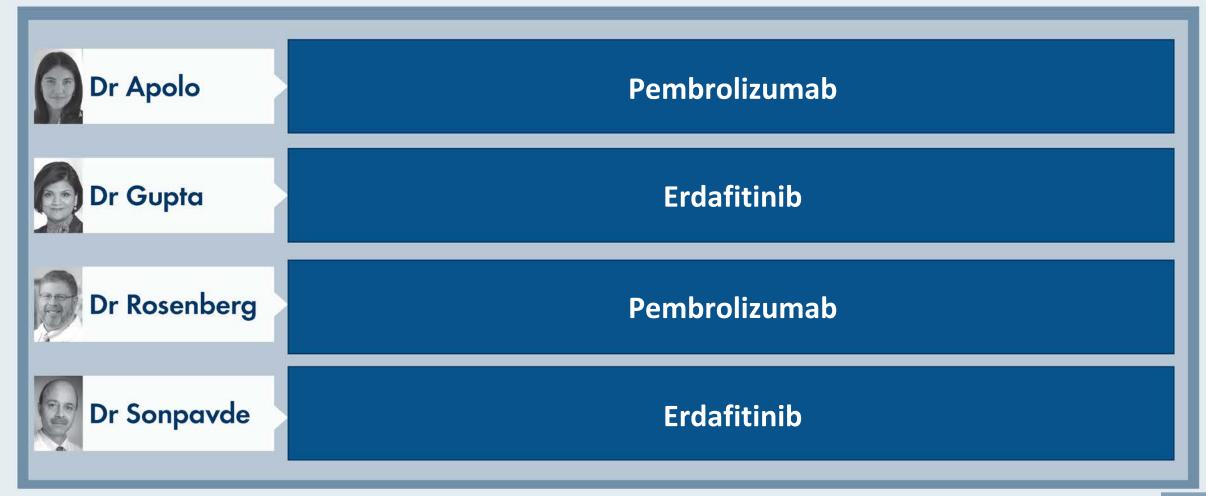


What would you generally recommend as second-line therapy for a 65-year-old patient with metastatic <u>FGFR wild-type</u> UBC to the liver whose disease progresses on <u>first-line cisplatin/gemcitabine followed by avelumab maintenance</u>?



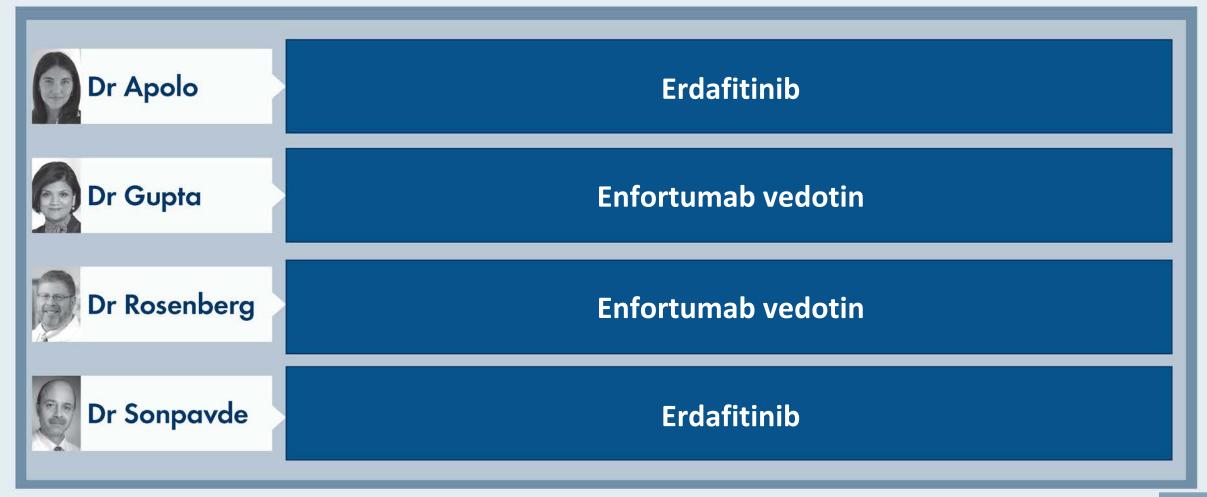


What would you generally recommend as second-line therapy for a 65-year-old patient with <u>FGFR3 mutation-positive</u> UBC metastatic to the liver whose disease progressed on first-line <u>cisplatin/gemcitabine</u>?



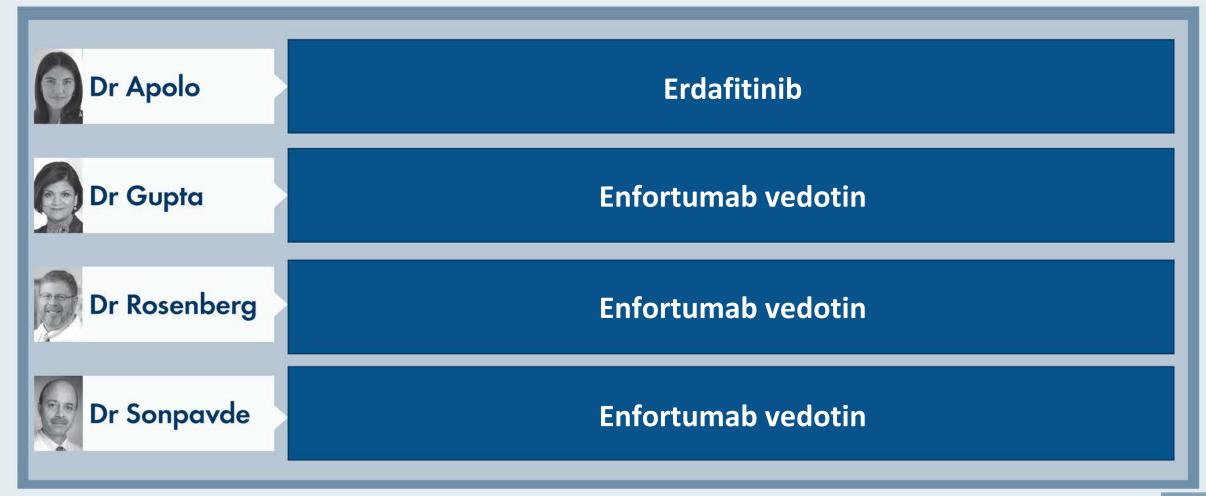


What would you generally recommend as second-line therapy for a 65-year-old patient with <u>FGFR3 mutation-positive</u> UBC metastatic to the liver whose disease progressed on <u>first-line cisplatin/gemcitabine followed by avelumab maintenance</u>?



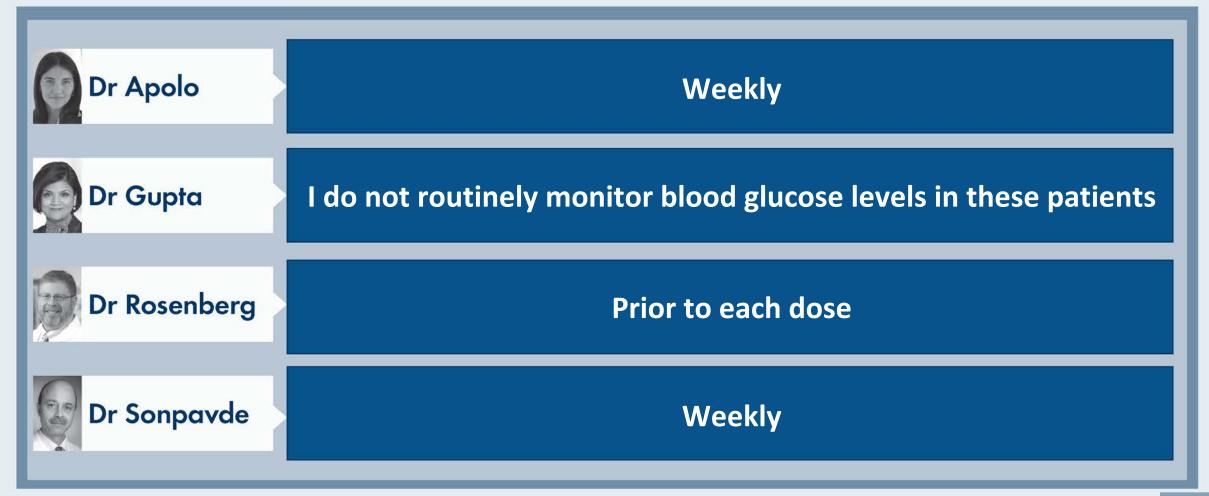


Of enfortumab vedotin, erdafitinib and sacituzumab govitecan, which would you generally recommend first for a patient with metastatic UBC who is eligible to receive all 3 agents?



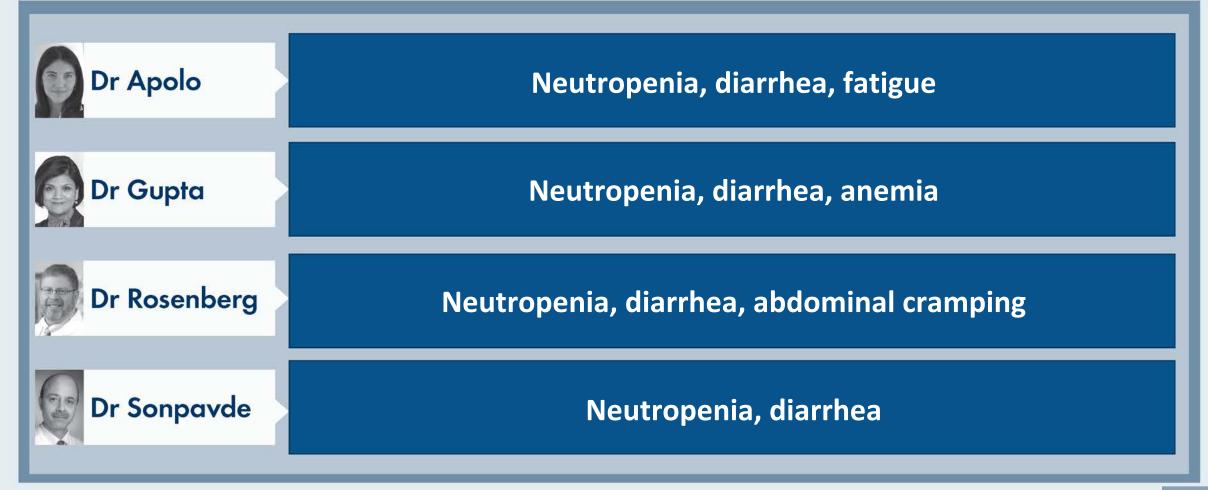


# How frequently do you monitor blood glucose levels in your patients receiving enfortumab vedotin?





Based on available evidence and your own clinical experience, please list common clinically relevant adverse side effects associated with sacituzumab govitecan:





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**MODULE 4: Key Data Sets** 



### Journal Club with Dr Rosenberg - Part 1

- Teo MY et al. Clinicogenomic predictors of extreme responses to anti-PD1/PDL1 checkpoint inhibitors (CPI) in metastatic urothelial cancer (mUC). ASCO 2020; Abstract 5050.
- Guercio BJ, Iyer G, Rosenberg JE. **Developing precision medicine for bladder cancer.** *Hematol Oncol Clin North Am* 2021;35(3):633-53.
- Do MH et al. **Dermatologic infections in cancer patients treated with checkpoint inhibitors.** *J Am Acad Dermatol* 2021;[Online ahead of print].
- Francis JH et al. Clinical and morphologic characteristics of fibroblast growth factor receptor inhibitor-associated retinopathy. JAMA Ophthalmol 2021;[Online ahead of print].
- Powles T et al. Beyond chemotherapy and checkpoint inhibitors: Weighing the risks and benefits of the novel therapies for metastatic urothelial carcinoma. J Clin Oncol 2021;[Online ahead of print].



### **Journal Club with Dr Rosenberg – Part 2**

- Lyou Y et al. Relationship between hyperphosphatemia with infigratinib (BGJ398) and efficacy in FGFR3-altered advanced/metastatic urothelial carcinoma (aUC). Genitourinary Cancers Symposium 2021; Abstract 576.
- Balar AV et al. Pembrolizumab (pembro) in combination with gemcitabine (Gem) and concurrent hypofractionated radiation therapy (RT) as bladder sparing treatment for muscle-invasive urothelial cancer of the bladder (MIBC): A multicenter phase 2 trial.
   ASCO 2021; Abstract 4504.
- Bellmunt J et al; IMvigor010 Study Group. Adjuvant atezolizumab versus observation in muscle-invasive urothelial carcinoma (IMvigor010): A multicentre, open-label, randomised, phase 3 trial. Lancet Oncol 2021;22(4):525-37.
- Funt SA et al. Neoadjuvant atezolizumab (A) with gemcitabine and cisplatin (GC) in patients (pts) with muscle-invasive bladder cancer (MIBC): A multicenter, single-arm, phase 2 trial. ASCO 2021; Abstract 4517.

### Journal Club with Dr Rosenberg - Part 3

- Hussain MHA et al. IMvigor010: Primary analysis from a phase III randomized study of adjuvant atezolizumab (atezo) versus observation (obs) in high-risk muscle-invasive urothelial carcinoma (MIUC). ASCO 2020; Abstract 5000.
- Heath El, Rosenberg JE. **The biology and rationale of targeting nectin-4 in urothelial carcinoma.** *Nat Rev Urol* 2021;18(2):93-103.
- Powles T et al. Enfortumab vedotin in previously treated advanced urothelial carcinoma. N Engl J Med 2021;384(12):1125-35.
- Rosenberg JE et al. Analysis of hard-to-treat subgroups from EV-301: A phase III trial of enfortumab vedotin (EV) vs chemotherapy for previously treated advanced urothelial carcinoma. ESMO 2021;
   Abstract 698P.
- Sarfaty M et al. Detection of FGFR3 alt in plasma cfDNA in metastatic UC patients receiving Erda therapy. ASCO 2021; Abstract e16519.
- Wong JL, Rosenberg JE. Targeting nectin-4 by antibody-drug conjugates for the treatment of urothelial carcinoma. Expert Opin Biol Ther 2021;21(7):863-73.



### **Meet The Professor with Dr Rosenberg**

**Introduction: ADCs in the News!!** 

**MODULE 1: Case Presentations** 

- Dr Moon: A 73-year-old man with metastatic UBC
- Dr Malik: An 84-year-old woman with non-muscle-invasive UBC and an FGFR2 tumor mutation
- Dr Ibrahim: A 72-year-old woman with metastatic UBC PD-L1 30%
- Dr Brown: A 74-year-old woman with metastatic UBC
- Dr Santiago: A 56-year-old man with metastatic UBC PD-L1-negative
- Dr Hafron: A 76-year-old woman with BCG-refractory non-muscle-invasive bladder cancer carcinoma in situ
- Dr Ibrahim: A 60-year-old man with BCG-refractory non-muscle-invasive UBC

**MODULE 2: Beyond the Guidelines** 

**MODULE 3: Journal Club with Dr Rosenberg** 

**MODULE 4: Key Data Sets** 



### Nonmetastatic Urothelial Bladder Cancer (UBC)



#### Lancet Oncol 2021;22:919-30

#### **Articles**

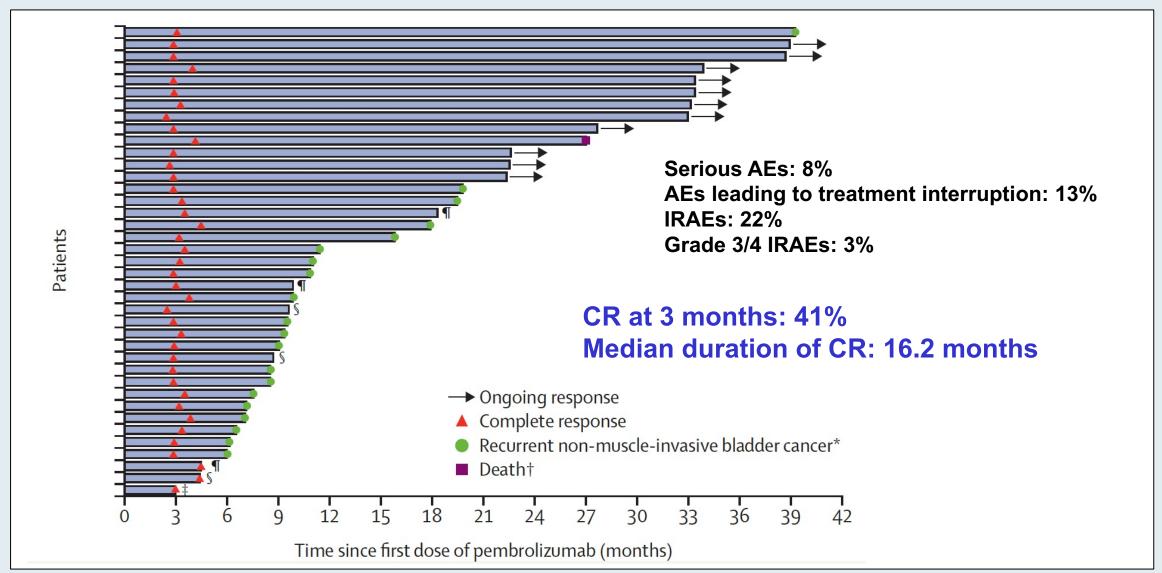
Pembrolizumab monotherapy for the treatment of high-risk 🔵 🔭 🕕 non-muscle-invasive bladder cancer unresponsive to BCG (KEYNOTE-057): an open-label, single-arm, multicentre, phase 2 study



Arjun V Balar, Ashish M Kamat, Girish S Kulkarni, Edward M Uchio, Joost L Boormans, Mathieu Roumiquié, Laurence E M Krieger, Eric A Singer, Dean F Bajorin, Petros Grivas, Ho Kyung Seo, Hiroyuki Nishiyama, Badrinath R Konety, Haojie Li, Kijoeng Nam, Ekta Kapadia, Tara Frenkl, Ronald de Wit.



### **KEYNOTE-057: Response, Duration of Response and Summary of Adverse Events**





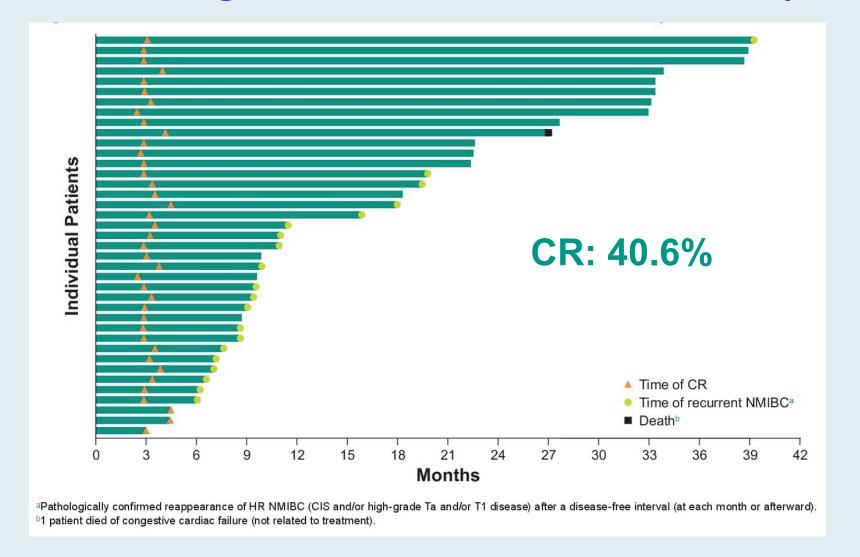
Pembrolizumab for the Treatment of Patients with High-Risk (HR) Non-Muscle-Invasive Bladder Cancer (NMIBC) Unresponsive to Bacillus Calmette-Guérin: Extended Follow-Up of KEYNOTE-057 Cohort A

Balar AV et al.

Genitourinary Cancers Symposium 2021; Abstract 451.



# Extended Follow-Up of KEYNOTE-057: Response, Time to Response and Recurrence of High-Risk NMIBC in Patients Who Experienced CR





### FDA Approves Nivolumab for Adjuvant Treatment of Urothelial Carcinoma

Press Release – August 19, 2021

"The Food and Drug Administration approved nivolumab for the adjuvant treatment of patients with urothelial carcinoma (UC) who are at high risk of recurrence after undergoing radical resection.

This is the first FDA approval for adjuvant treatment of patients with high-risk UC. The results supporting this approval also supported the conversion of nivolumab's accelerated approval for advanced/metastatic UC to a regular approval.

Nivolumab was investigated in CHECKMATE-274 (NCT02632409), a randomized, double-blind, placebo-controlled trial in patients who were within 120 days of radical resection of UC of the bladder or upper urinary tract (renal pelvis or ureter) at high risk of recurrence. Patients were randomized (1:1) to receive nivolumab 240 mg or placebo by intravenous infusion every 2 weeks until recurrence or until unacceptable toxicity for a maximum treatment duration of 1 year."



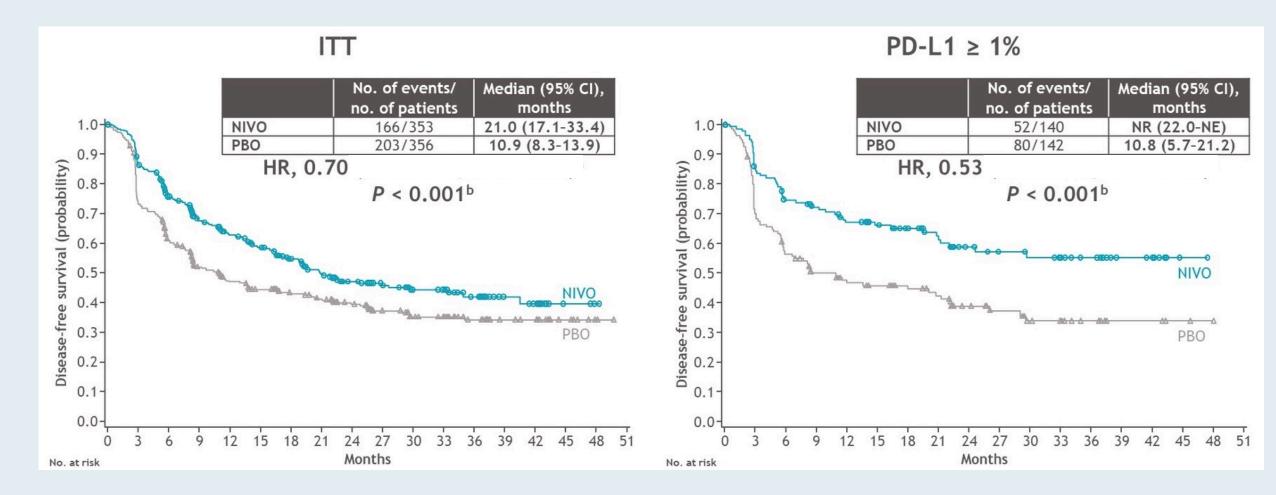
## First Results from the Phase 3 CheckMate 274 Trial of Adjuvant Nivolumab vs Placebo in Patients Who Underwent Radical Surgery for High-Risk Muscle-Invasive Urothelial Carcinoma (MIUC)

Bajorin DF et al.

Genitourinary Cancers Symposium 2021; Abstract 391.



## CheckMate 274: Disease-Free Survival in the ITT and PD-L1 ≥1% Populations









### **ORIGINAL ARTICLE**

Does the administration of preoperative pembrolizumab lead to sustained remission post-cystectomy? First survival outcomes from the PURE-01 study

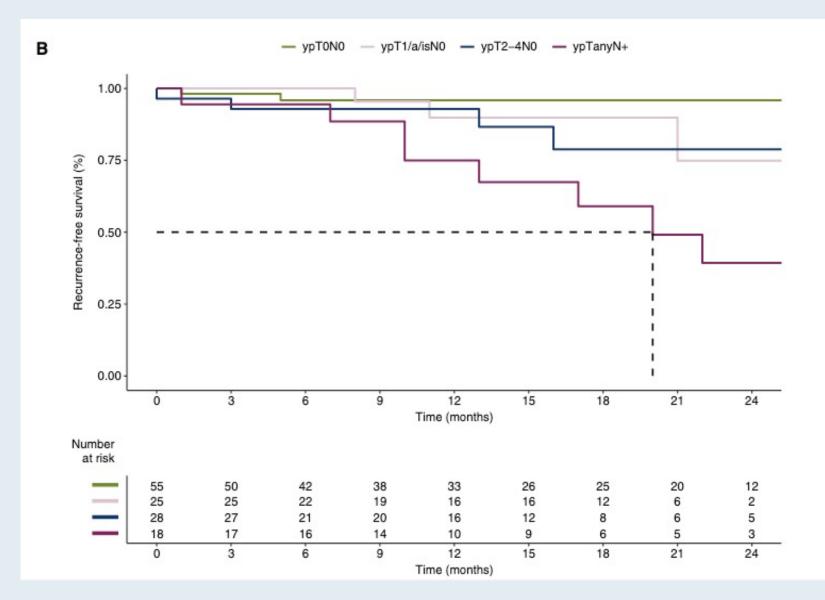
M. Bandini<sup>1</sup>, E. A. Gibb<sup>2</sup>, A. Gallina<sup>1</sup>, D. Raggi<sup>3</sup>, L. Marandino<sup>3</sup>, M. Bianchi<sup>1</sup>, J. S. Ross<sup>4,5</sup>, M. Colecchia<sup>3</sup>, G. Gandaglia<sup>1</sup>, N. Fossati<sup>1</sup>, F. Pederzoli<sup>1</sup>, R. Lucianò<sup>6</sup>, R. Colombo<sup>1</sup>, A. Salonia<sup>1</sup>, A. Briganti<sup>1</sup>, F. Montorsi<sup>1</sup> & A. Necchi<sup>3\*</sup>

<sup>1</sup>Urological Research Institute (URI), Unit of Urology, IRCCS Ospedale San Raffaele, Vita-Salute San Raffaele University, Milan, Italy; <sup>2</sup>Decipher Biosciences Inc., Vancouver, Canada; <sup>3</sup>Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy; <sup>4</sup>Foundation Medicine Inc., Cambridge; <sup>5</sup>Upstate Medical University, Syracuse, United States; <sup>6</sup>Department of Pathology, IRCCS Ospedale San Raffaele, Milan, Italy





### PURE-01: Recurrence-Free Survival (RFS) by ypTypN Stage



RFS	12-mo	24-mo
Overall (n = 126)	90.5%	78.3%
ypT0ypN0 (n = 55)	95.9%	95.9%
$ypT_{1/a/is}ypN0$ (n = 25)	89.8%	74.9%
ypT2-4 ypN0 (n = 28)	92.9%	78.8%
ypTanyN+ (n = 18)	74.9%	39.3%



### Avelumab (A) as the Basis of Neoadjuvant Chemotherapy (NAC) Regimen in Platinum Eligible and Ineligible Patients (pts) with Non-metastatic Muscle Invasive Bladder Cancer (NM-MIBC)

Martinez Chanza N et al.

ESMO 2021; Abstract 659MO.

Mini Oral Session – Genitourinary Tumors – Nonprostate
Saturday September 18, 2021



## Optimizing the Selection and Sequencing of Therapy for Patients with Metastatic UBC



### N Engl J Med 2020;383:1218-30.

The NEW ENGLAND JOURNAL of MEDICINE

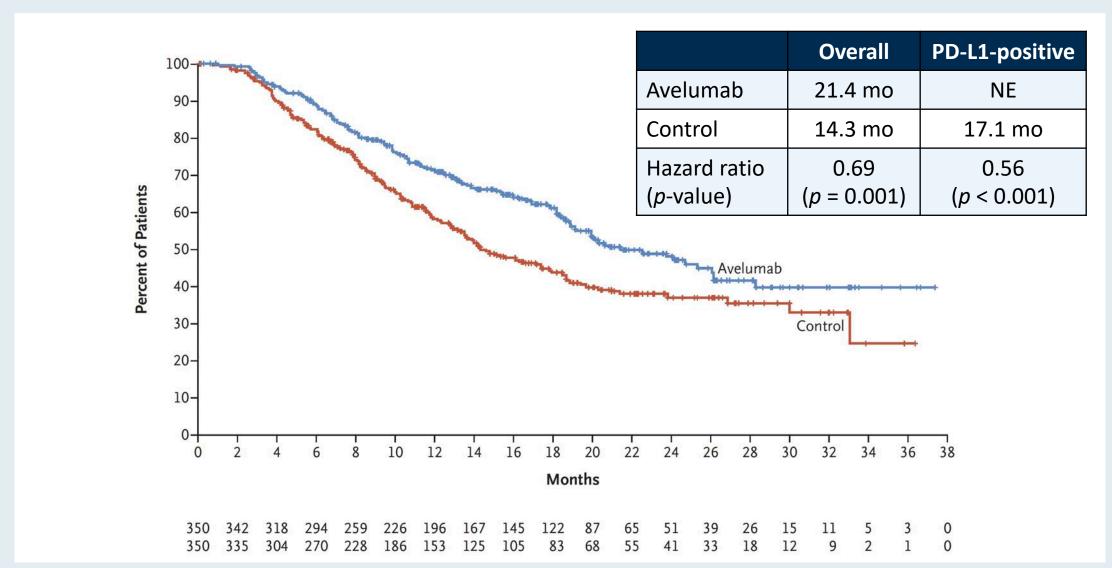
### ORIGINAL ARTICLE

## Avelumab Maintenance Therapy for Advanced or Metastatic Urothelial Carcinoma

T. Powles, S.H. Park, E. Voog, C. Caserta, B.P. Valderrama, H. Gurney, H. Kalofonos, S. Radulović, W. Demey, A. Ullén, Y. Loriot, S.S. Sridhar, N. Tsuchiya, E. Kopyltsov, C.N. Sternberg, J. Bellmunt, J.B. Aragon-Ching, D.P. Petrylak, R. Laliberte, J. Wang, B. Huang, C. Davis, C. Fowst, N. Costa, J.A. Blake-Haskins, A. di Pietro, and P. Grivas



### **JAVELIN Bladder 100 Primary Endpoint: Overall Survival**





## **Voluntary Withdrawal of Durvalumab Indication for Advanced Bladder Cancer in the United States**

Press Release – February 22, 2021

"The voluntary withdrawal of the durvalumab indication in the US for previously treated adult patients with locally advanced or metastatic bladder cancer [was announced today]. This decision was made in consultation with the Food and Drug Administration (FDA).

In May 2017, durvalumab was granted accelerated approval in the US based on promising tumor response rates and duration of response data from Study 1108, a Phase I/II trial that evaluated the safety and efficacy of durvalumab in advanced solid tumors, including previously treated bladder cancer. Continued approval was contingent on results from the DANUBE Phase III trial in the 1st-line metastatic bladder cancer setting, which did not meet its primary endpoints in 2020. The withdrawal is aligned with FDA guidance for evaluating indications with accelerated approvals that did not meet post-marketing requirements, as part of a broader industry-wide evaluation. This withdrawal does not impact the indication outside the US and does not impact other approved durvalumab indications within or outside the US."

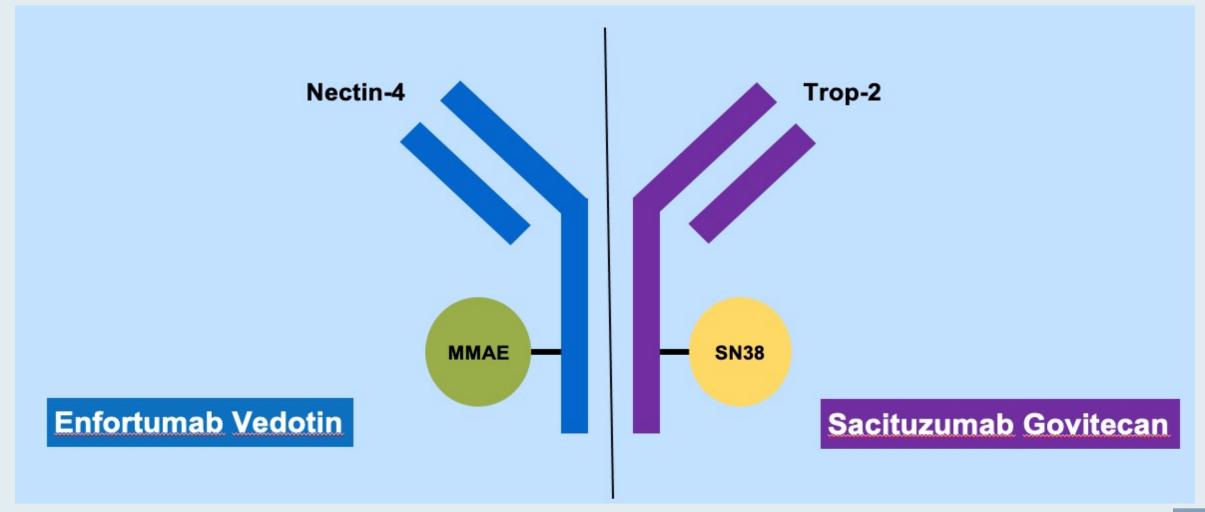


### **Ongoing Phase III Trials of Immunotherapy Combinations for UBC**

Trial identifier	N	Setting	Treatment arms
POTOMAC (NCT03528694)	1,019	High-risk, BCG-naïve, non-muscle invasive	<ul> <li>Durvalumab + BCG (induction + maintenance)</li> <li>Durvalumab + BCG (induction only)</li> <li>BCG</li> </ul>
NIAGARA (NCT03732677)	1,050	Neoadjuvant/ adjuvant, muscle invasive	<ul> <li>Chemotherapy + durvalumab → surgery → durvalumab</li> <li>Chemotherapy alone → surgery</li> </ul>
NILE (NCT03682068)	1,292	Unresectable, first line	<ul> <li>Durvalumab + standard chemotherapy</li> <li>Durvalumab + tremelimumab + standard therapy</li> <li>Standard chemotherapy</li> </ul>



### **Antibody-Drug Conjugates in UBC**





## FDA Grants Regular Approval to Enfortumab Vedotin-ejfv for Locally Advanced or Metastatic Urothelial Cancer

Press Release – July 9, 2021

"The Food and Drug Administration approved enfortumab vedotin-ejfv, a Nectin-4-directed antibody and microtubule inhibitor conjugate, for adult patients with locally advanced or metastatic urothelial cancer who

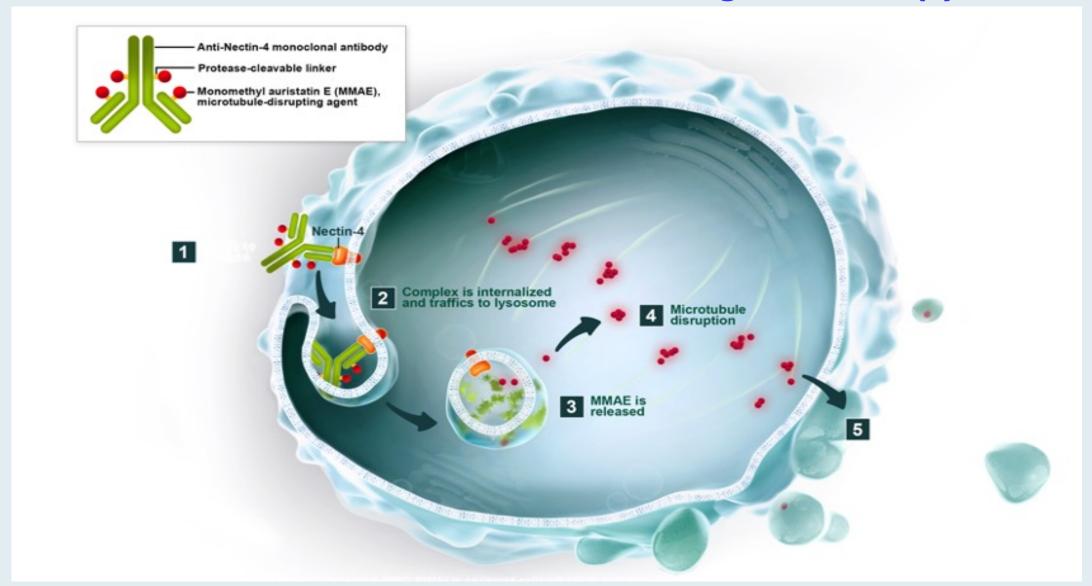
- have previously received a programmed death receptor-1 (PD-1) or programmed death-ligand (PD-L1) inhibitor and platinum-containing chemotherapy, or
- are ineligible for cisplatin-containing chemotherapy and have previously received one or more prior lines of therapy.

Trial EV-301 was an open-label, randomized, multicenter trial required to confirm the clinical benefit of the 2019 accelerated approval.

Efficacy for patients ineligible for cisplatin-containing chemotherapy was evaluated in Cohort 2 of EV-201, a single-arm, multi-cohort, international trial in 89 patients with locally advanced or metastatic urothelial cancer who received a prior PD-1 or PD-L1 inhibitor and were ineligible for cisplatin-containing chemotherapy."



### **Enfortumab Vedotin: Nectin-4-Targeted Therapy**





### ORIGINAL ARTICLE

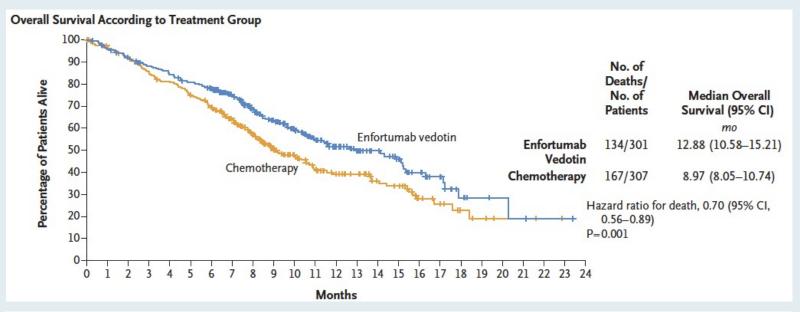
## Enfortumab Vedotin in Previously Treated Advanced Urothelial Carcinoma

Thomas Powles, M.D., Jonathan E. Rosenberg, M.D., Guru P. Sonpavde, M.D., Yohann Loriot, M.D., Ph.D., Ignacio Durán, M.D., Ph.D., Jae-Lyun Lee, M.D., Ph.D., Nobuaki Matsubara, M.D., Christof Vulsteke, M.D., Ph.D., Daniel Castellano, M.D., Chunzhang Wu, Ph.D., Mary Campbell, M.D., Maria Matsangou, M.B., Ch.B., M.D., and Daniel P. Petrylak, M.D.

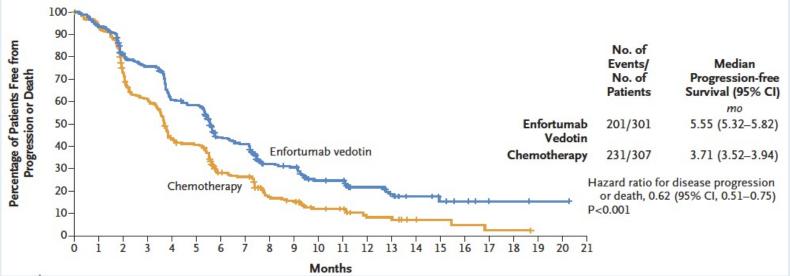
N Engl J Med 2021;384(12):1125-35.



### **EV-301: Survival and Response Analyses**



	EV (n = 301)	Chemo (n = 307)
ORR	40.6%	17.9%
DCR	71.9%	53.4%



Incidence of treatment-related adverse events was similar in the 2 groups:

93.9% versus 91.8%

Incidence of events of Grade 3 or higher was also similar in the 2 groups:

51.4% versus 49.8%



### **EV-301: Enfortumab Vedotin Safety Analysis**

Adverse Event	Enfortumab Vedotin Group (N = 296)		Chemotherapy Group (N=291)	
	Any Grade	Grade ≥3	Any Grade	Grade ≥3
		number of patie	ents (percent)	
Any adverse event	278 (93.9)	152 (51.4)	267 (91.8)	145 (49.8)
Alopecia	134 (45.3)	0	106 (36.4)	0
Peripheral sensory neuropathy†	100 (33.8)	9 (3.0)	62 (21.3)	6 (2.1)
Pruritus	95 (32.1)	4 (1.4)	13 (4.5)	0
Fatigue	92 (31.1)	19 (6.4)	66 (22.7)	13 (4.5)
Decreased appetite	91 (30.7)	9 (3.0)	68 (23.4)	5 (1.7)
Diarrhea	72 (24.3)	10 (3.4)	48 (16.5)	5 (1.7)
Dysgeusia	72 (24.3)	0	21 (7.2)	0
Nausea	67 (22.6)	3 (1.0)	63 (21.6)	4 (1.4)
Maculopapular rash	48 (16.2)	22 (7.4)	5 (1.7)	0
Anemia	34 (11.5)	8 (2.7)	59 (20.3)	22 (7.6)
Decreased neutrophil count	30 (10.1)	18 (6.1)	49 (16.8)	39 (13.4)
Neutropenia	20 (6.8)	14 (4.7)	24 (8.2)	18 (6.2)
Decreased white-cell count	16 (5.4)	4 (1.4)	31 (10.7)	20 (6.9)
Febrile neutropenia	2 (0.7)	2 (0.7)	16 (5.5)	16 (5.5)



### **Research Letter**

**ONLINE FIRST** 

September 8, 2021

### Postmarketing Cases of Enfortumab Vedotin-Associated Skin Reactions Reported as Stevens-Johnson Syndrome or Toxic Epidermal Necrolysis

Michelle Nadeau Nguyen, PharmD, BCOP, BCPS<sup>1</sup>; Melissa Reyes, MD, MPH, DTMH<sup>1</sup>; S. Christopher Jones, PharmD, MS, MPH<sup>1</sup>

Author Affiliations

JAMA Dermatol. Published online September 8, 2021. doi:10.1001/jamadermatol.2021.3450



Study EV-103: Update on Durability Results and Long Term Outcome of Enfortumab Vedotin + Pembrolizumab in First Line Locally Advanced or Metastatic Urothelial Carcinoma (la/mUC)

Friedlander TW et al.

ASCO 2021; Abstract 4528.



### EV-103: Enfortumab Vedotin + Pembrolizumab Cohorts

Patient Population

Locally
Advanced
or
Metastatic
Urothelial
Cancer
(la/mUC)

Dose Escalation<sup>1</sup>
EV 1.25 mg/kg
+ pembro

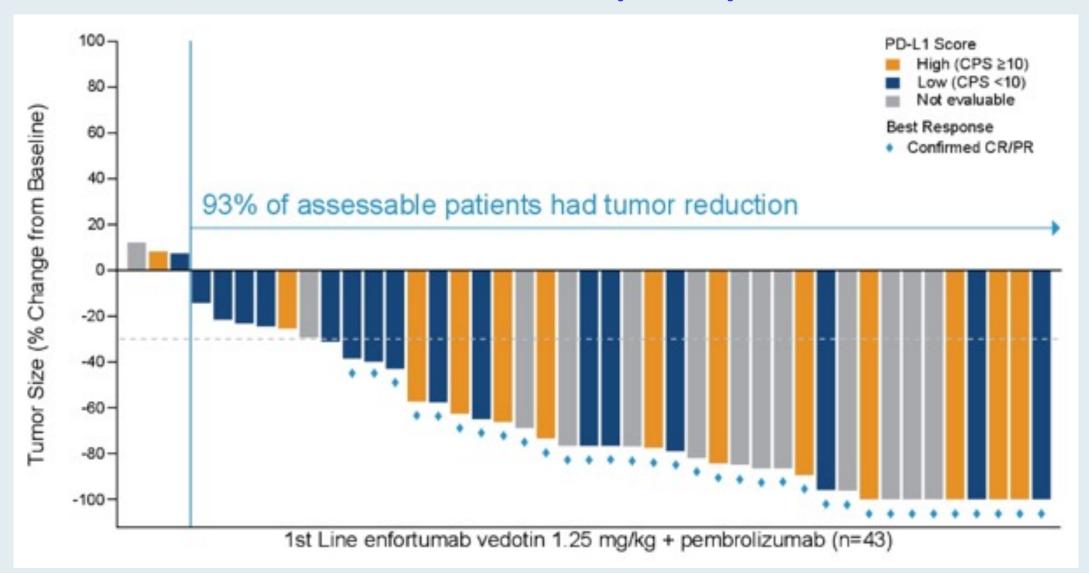
cis-ineligible
1L
(n=5)

Dose Expansion
Cohort A
EV + pembro
cis-ineligible
1L
(n=40)

- **Dosing:** Enfortumab vedotin on days 1 and 8 and pembrolizumab on day 1 of every 3-week cycle
- Primary endpoints: Adverse events, laboratory abnormalities
- Key secondary endpoints: Doselimiting toxicities, ORR, duration of response, progression-free survival, OS

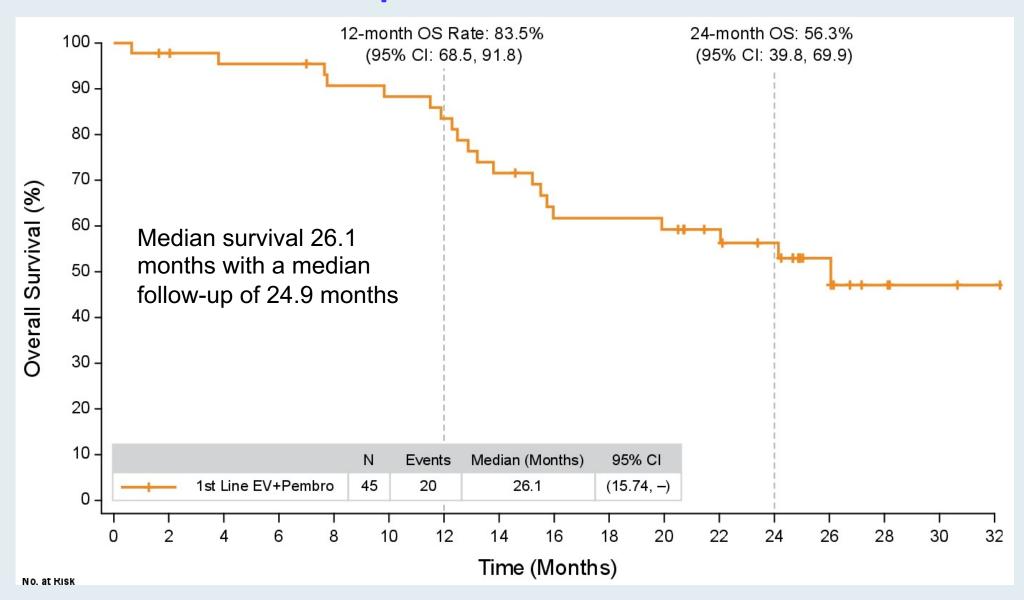


### **EV-103: Best Overall Response per RECIST**





### **EV-103: Updated Overall Survival**





## FDA Grants Accelerated Approval to Sacituzumab Govitecan for Advanced Urothelial Cancer

Press Release – April 13, 2021

"The Food and Drug Administration granted accelerated approval to sacituzumab govitecan for patients with locally advanced or metastatic urothelial cancer (mUC) who previously received a platinum-containing chemotherapy and either a programmed death receptor-1 (PD-1) or a programmed death-ligand 1 (PD-L1) inhibitor.

Efficacy and safety were evaluated in TROPHY (IMMU-132-06; NCT03547973), a single-arm, multicenter trial that enrolled 112 patients with locally advanced or mUC who received prior treatment with a platinum-containing chemotherapy and either a PD-1 or PD-L1 inhibitor. Patients received sacituzumab govitecan, 10 mg/kg intravenously, on days 1 and 8 of a 21-day treatment cycle."



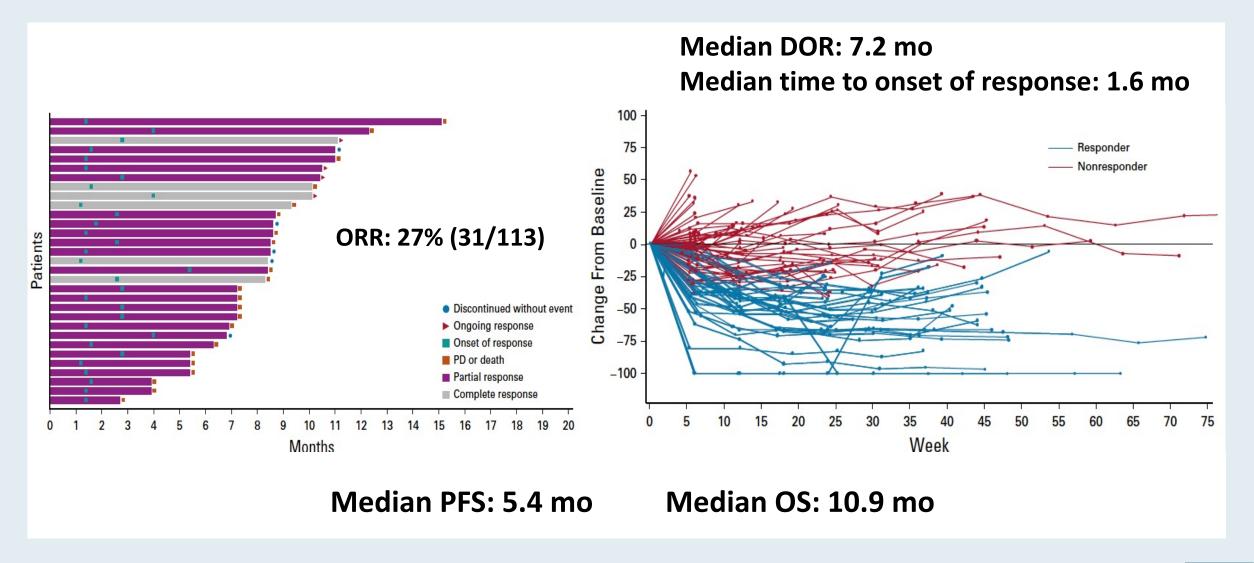
# TROPHY-U-O1: A Phase II Open-Label Study of Sacituzumab Govitecan in Patients With Metastatic Urothelial Carcinoma Progressing After Platinum-Based Chemotherapy and Checkpoint Inhibitors

Scott T. Tagawa, MD, MS<sup>1</sup>; Arjun V. Balar, MD<sup>2</sup>; Daniel P. Petrylak, MD<sup>3</sup>; Arash Rezazadeh Kalebasty, MD<sup>4</sup>; Yohann Loriot, MD, PhD<sup>5</sup>; Aude Fléchon, MD, PhD<sup>6</sup>; Rohit K. Jain, MD<sup>7</sup>; Neeraj Agarwal, MD<sup>8</sup>; Manojkumar Bupathi, MD, MS<sup>9</sup>; Philippe Barthelemy, MD, PhD<sup>10</sup>; Philippe Beuzeboc, MD, PhD<sup>11</sup>; Phillip Palmbos, MD, PhD<sup>12</sup>; Christos E. Kyriakopoulos, MD<sup>13</sup>; Damien Pouessel, MD, PhD<sup>14</sup>; Cora N. Sternberg, MD<sup>1</sup>; Quan Hong, MD<sup>15</sup>; Trishna Goswami, MD<sup>15</sup>; Loretta M. Itri, MD<sup>15</sup>; and Petros Grivas, MD, PhD<sup>16</sup>

J Clin Oncol 2021;39(22):2474-85.



### TROPHY U-01 (Cohort 1): ORR, Duration of Response and Survival





## FDA Grants Breakthrough Therapy Designation to Disitamab Vedotin for HER2-Positive Locally Advanced or Metastatic Urothelial Carcinoma

Press Release – September 30, 2020

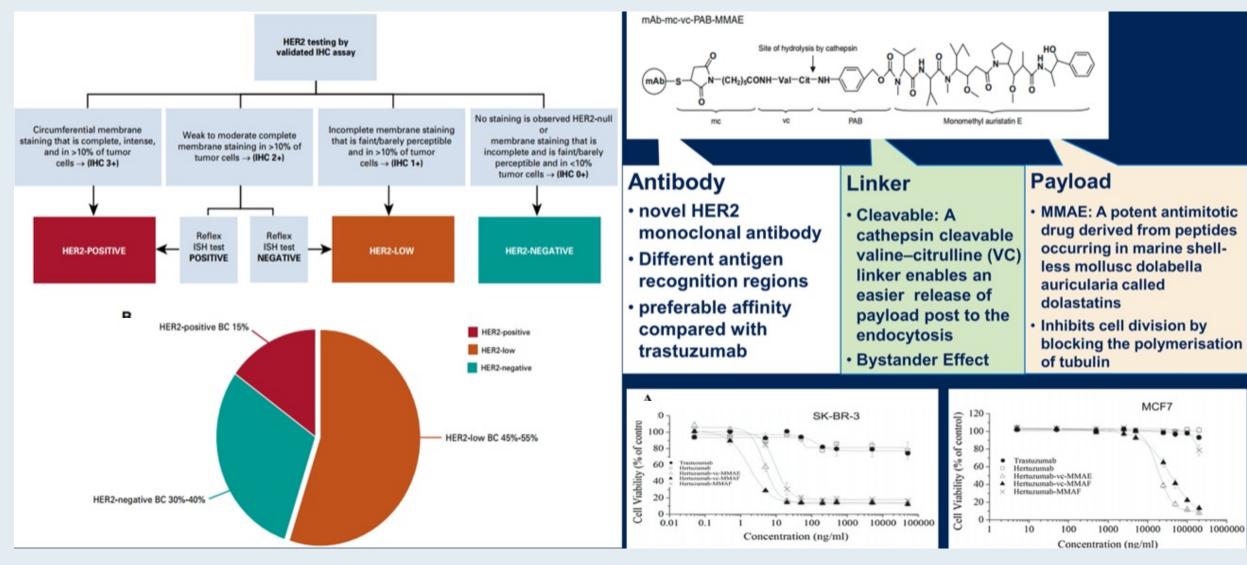
"The FDA has granted disitamab vedotin (RC48) a breakthrough therapy designation for the treatment of patients with HER2-positive locally advanced or metastatic urothelial carcinoma following treatment with platinum-based chemotherapy, according to the company developing the antibody-drug conjugate (ADC).

The designation will expedite the development and review of disitamab vedotin in this setting. Phase 2 data presented at the 2019 ASCO Annual Meeting showed that the ADC achieved a confirmed objective response rate of 51.2%, with confirmed responses reported in 22 of 43 patients. The best overall response was a partial response in 26 patients. An additional 13 patients reached stable disease for a disease control rate of 90.7%.

The median progression-free survival (PFS) was 6.9 months, with a 6-month PFS rate of 56.9%. The 6- and 12-month overall survival rates were 85.2% and 59.6%, respectively. Of note, the confirmed objective response rate was 62.5% in patients with prior anti–PD-1/PD-L1 treatment and 56.8% in patients with visceral metastases."



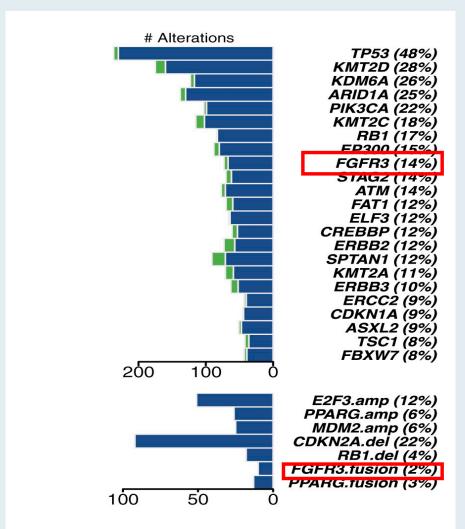
### **Disitamab Vedotin: A Novel HER2-Targeted ADC**





### FGFR3 Genomic Alterations in Muscle-Invasive Bladder Cancer

### **Genomics of MIBC: TCGA**



- In muscle-invasive disease, FGFR3 mutations in ~20% of tumors, but protein and/or gene overexpression in ~50%.
- Activating mutations of FGFR3 in ~75% of low-grade papillary bladder tumors.
- FGFR3-TACC3 fusions enriched in young, Asian, non-smokers, upper tract tumors (invasive, high grade)
- Preclinical evidence for activity of FGFR inhibitors in selected cells with FGFR alterations

Courtesy of Guru Sonpavde, MD



Erdafitinib or Erdafitinib plus Cetrelimab for Patients with Metastatic or Locally Advanced Urothelial Carcinoma and Fibroblast Growth Factor Receptor Alterations: First Results from the Phase 2 NORSE Study

Powles TB et al.

ESMO 2021; Abstract LBA27



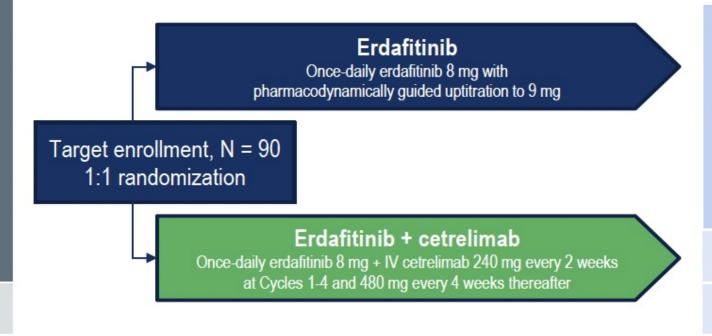
### **NORSE: Trial Design**

### **NORSE Phase 2 Study Design**

### Key eligibility criteria

- Age ≥ 18 years
- mUC diagnosis
- Ineligible for cisplatin
- Select FGFRa (mutation/fusion)
- Measurable disease
- No prior systemic therapy for mUC

Patients with any PD-L1 status could be enrolled



### Primary end points

- ORR
- Safety

#### Key secondary end points

- DCR
- DOR
- Time to response

No formal statistical comparisons between arms are prespecified

Point estimates along with 95% CI will be presented for each arm.

- Sample size determination: Assuming a true ORR of 45% in the erdafitinib arm and 55% in the erdafitinib + cetrelimab arm, n ≈ 45 patients in
  each arm would result in an estimated ORR that is above a 95% CI lower bound of 30% and 40%, respectively
- A review of safety and efficacy data was planned per the data review committee charter when ∼40 patients were response-evaluable



### **NORSE: Efficacy**

	Erdafitinib (n = 18)	Erdafitinib + Cetrelimab (n = 19)
ORR <sup>a</sup> , n (%) [95% CI]	6 (33%) [13%-59%]	13 (68%) [43%-87%]
Complete response, n (%)	1 (6%)	4 (21%)
Partial response, n (%)	5 (28%)	9 (47%)
DOR, median, months [95% CI]	NE [4.4-NE]	6.9 [1.6-NE]
Responses ongoing, n (%)	5 (28%)	10 (53%)
Time to response, median (range), months	2.3 (1-6)	1.8 (1-4)
DCR, n (%) [95% CI]	18 (100%) [82%-100%]	17 (90%) [67%-99%]



## Erdafitinib in Locally Advanced or Metastatic Urothelial Carcinoma (mUC): Long-Term Outcomes in BLC2001

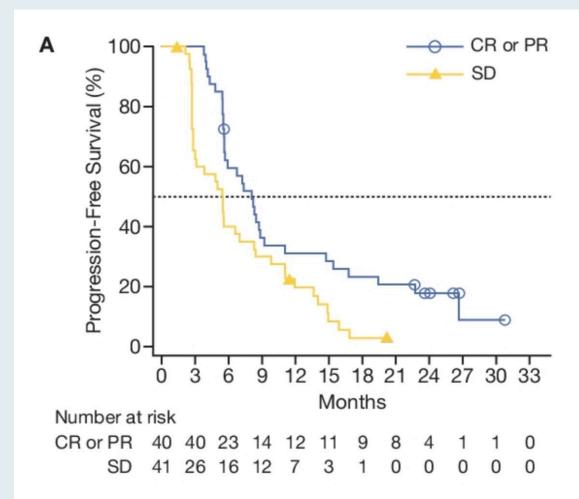
Siefker-Radtke AO et al.

ASCO 2020; Abstract 5015.

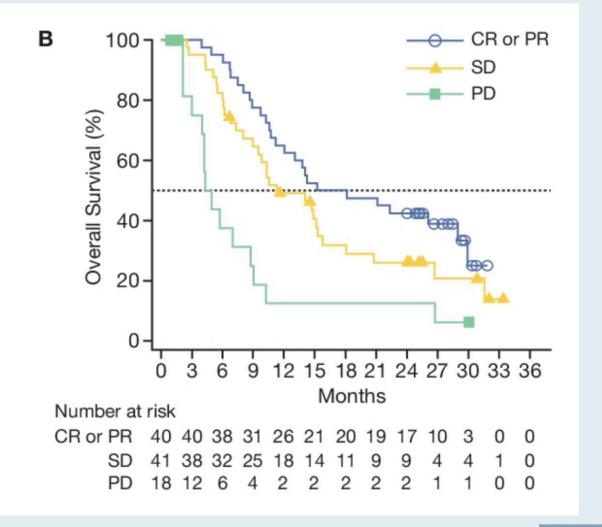


### **BLC2001: Survival**

### **Median PFS: 5.5 months**

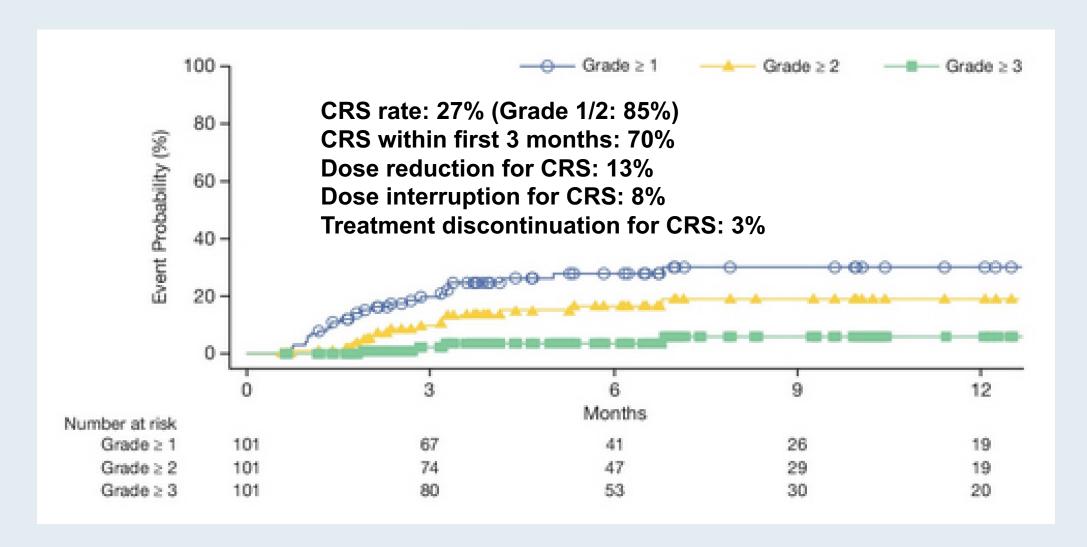


### **Median OS: 11.3 months**



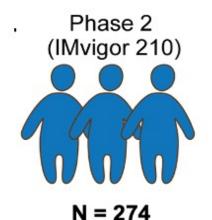


### **BLC2001: Central Serous Retinopathy (CRS)**





## Are FGFR3 Alterations Associated with Resistance to PD-1/PD-L1 Blockade in Large Clinical Trial Cohorts?

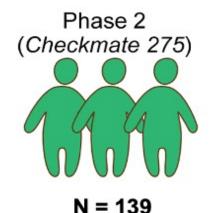


18% mFGFR



Wild type 21% (95% CI: 16%, 27%)

Mutant 24% (95% CI: 14%, 39%)



11% mFGFR

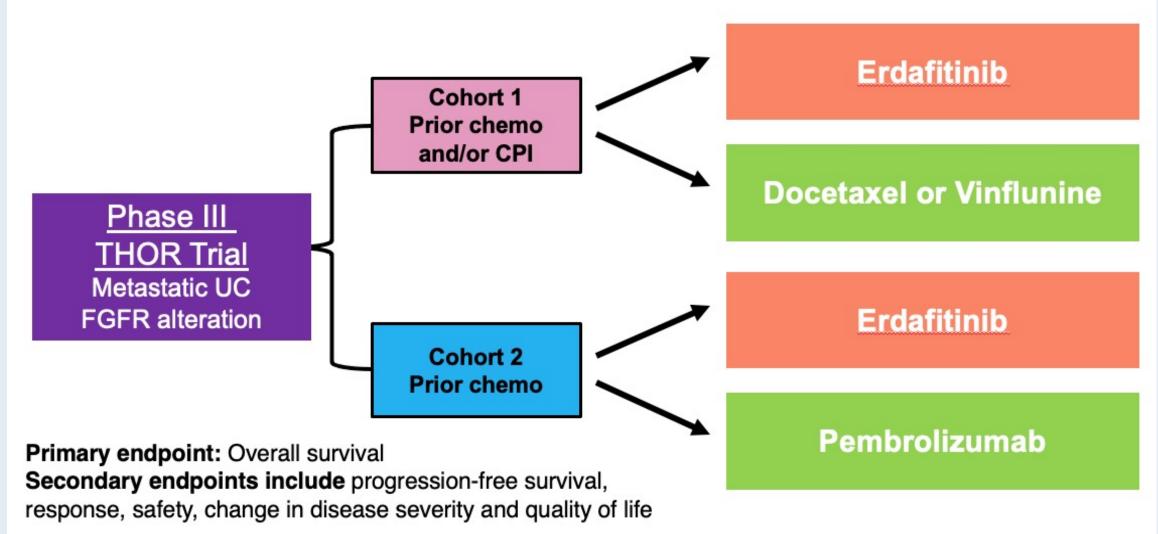
Wild type 21% (95% CI: 15%, 29%)

Mutant 21% (95% CI: 15%, 29%)

Wang, European Urology, 2019



### **Ongoing Phase III THOR Trial Design**





### Meet The Professor

## Optimizing the Selection and Sequencing of Therapy for Patients with HER2-Positive Breast Cancer

Wednesday, September 22, 2021 5:00 PM - 6:00 PM ET

Faculty
Sara M Tolaney, MD, MPH

**Moderator Neil Love, MD** 



### Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.

