# Ask the Expert: Clinical Investigators Provide Perspectives on the Management of Renal Cell Carcinoma

In Partnership with Project Echo® and Florida Cancer Specialists

Wednesday, June 2, 2021 5:00 PM - 6:00 PM ET

**Faculty** 

Walter Stadler, MD Vikas Malhotra, MD

**Moderator Neil Love, MD** 



#### **Faculty**



Walter Stadler, MD
Fred C Buffett Professor of Medicine
Dean for Clinical Research
Deputy Director, Comprehensive Cancer Center
The University of Chicago
Chicago, Illinois



Vikas Malhotra, MD
Staff Medical Oncologist-Hematologist
Florida Cancer Specialists and Research Institute
Spring Hill, Florida



#### **Steering Committee**



Chung-Han Lee, MD, PhD
Assistant Attending Physician
Genitourinary Oncology Service
Memorial Sloan Kettering Cancer Center
New York, New York



David I Quinn, MBBS, PhD

Medical Director, USC Norris Cancer Hospital and Clinics
Head, Section of GU Cancer, Division of Oncology
Associate Professor of Medicine
USC Norris Comprehensive Cancer Center
Keck School of Medicine of USC
Los Angeles, California



Sumanta K Pal, MD
Clinical Professor, Department of Medical Oncology
City of Hope Comprehensive Cancer Center
Duarte, California



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Dean for Clinical Research
Deputy Director, Comprehensive Cancer Center
The University of Chicago
Chicago, Illinois



#### **Commercial Support**

This activity is supported by an educational grant from Pfizer Inc.



#### Dr Love — Disclosures

**Dr Love** is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: AbbVie Inc, Adaptive Biotechnologies Corporation, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Daiichi Sankyo Inc, Eisai Inc, Epizyme Inc, Exact Sciences Inc, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, Genentech, a member of the Roche Group, Gilead Sciences Inc, GlaxoSmithKline, Grail Inc, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Novartis, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi Genzyme, Seagen Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc and Verastem Inc.



# Research To Practice CME Planning Committee Members, Staff and Reviewers

Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.



#### **Project ECHO® Disclosure**

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#### **Dr Stadler — Disclosures**

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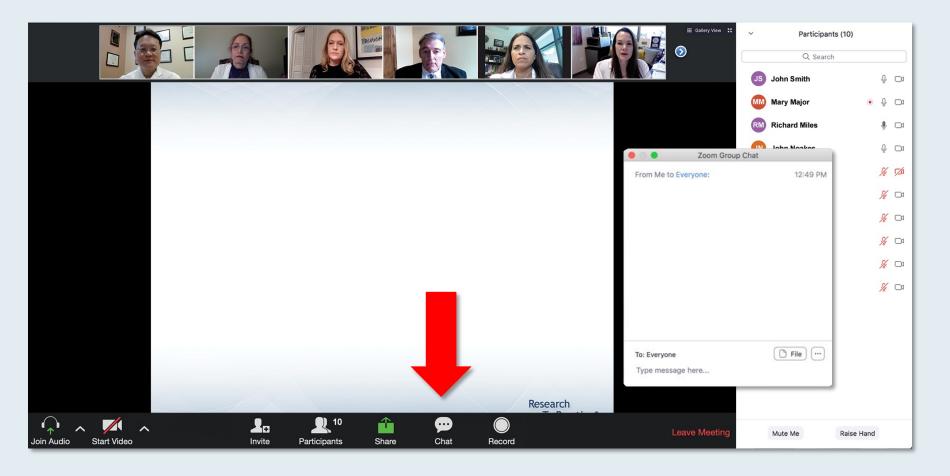


#### **Dr Malhotra** — **Disclosures**

No relevant conflicts of interest to disclose.



#### We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program begins and throughout the program.



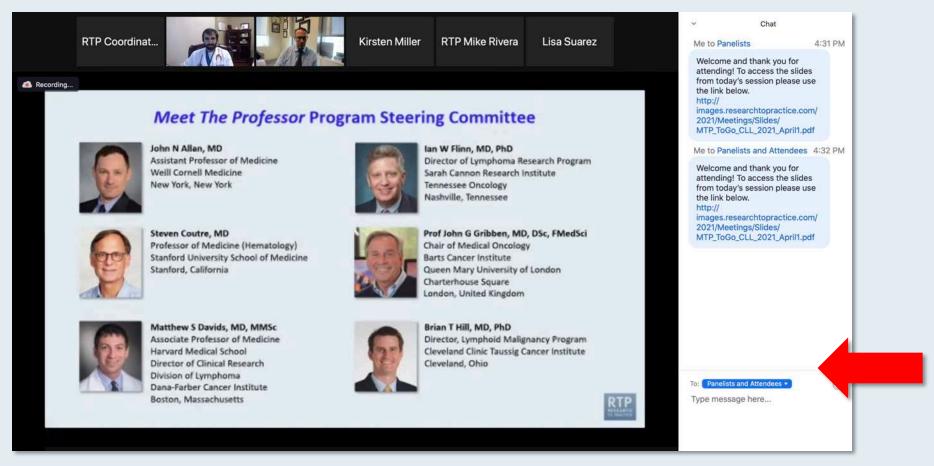
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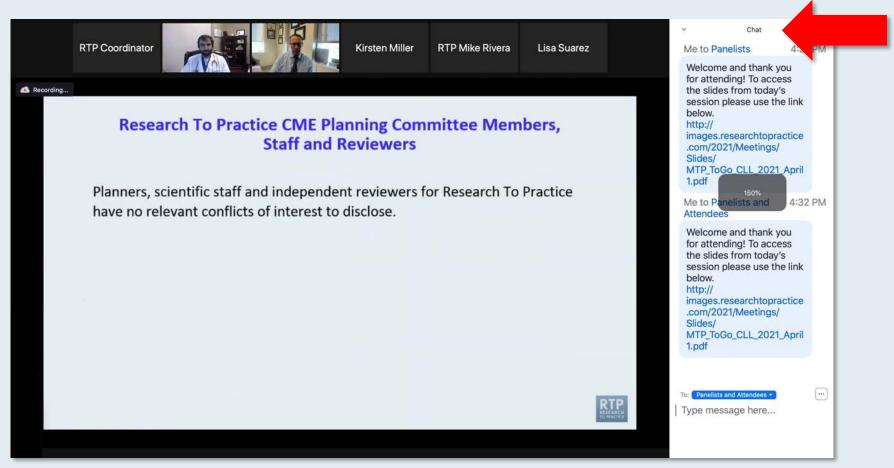
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### ONCOLOGY TODAY

WITH DR NEIL LOVE

## Renal Cell Carcinoma



DR CHUNG-HAN LEE
MEMORIAL SLOAN KETTERING CANCER CENTER
NEW YORK, NEW YORK









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

Monday, June 7, 2021 5:00 PM - 6:00 PM ET

**Faculty** 

Kristen K Ciombor, MD, MSCI

**Moderator Neil Love, MD** 



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

Wednesday, June 16, 2021 5:00 PM - 6:00 PM ET

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Thomas E Hutson, DO, PharmD

**Moderator Neil Love, MD** 



# ASCO Highlights and More: Investigators Review Recent Data Sets and Provide Perspectives on Current Oncology Care

A Daylong Multitumor Educational Webinar in Partnership with the Texas Society of Clinical Oncology (TxSCO)

**Saturday, June 26, 2021 8:00 AM – 3:00 PM Central Time** 

(9:00 AM - 4:00 PM Eastern Time)



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Webinar 2 – Tuesday, May 4, 2021

**Faculty** Chung-Han Lee, MD, PhD

Webinar 4 – Tuesday, July 6, 2021

Faculty
David I Quinn, MBBS, PhD



#### Thank you for joining us!

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



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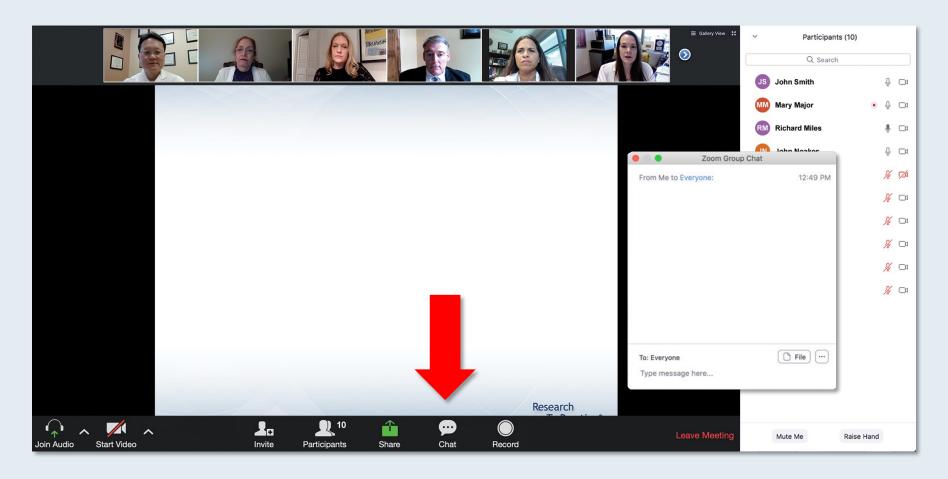
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#### **Agenda**

#### **MODULE 1: Cases from the Practice of Dr Malhotra**

- A 75-year-old man with metastatic RCC treated with axitinib/nivolumab
- A 65-year-old man RCC with extensive bone and lung metastases
- A 70-year-old man with RCC with 3 small lung metastases

**MODULE 2: Consensus or Controversy – Clinical Investigator Approaches to Clinical Scenarios** 

**MODULE 3: Renal Cell Carcinoma Journal Club with Dr Stadler** 

**MODULE 4: Key Data Sets** 

**MODULE 5: Other Recent Data Sets** 



# Pembrolizumab Demonstrated Superior Disease-Free Survival Compared with Placebo as Adjuvant Therapy for Patients with RCC Following Surgery

Press Release: April 8, 2021

"The pivotal Phase 3 KEYNOTE-564 trial evaluating pembrolizumab met its primary endpoint of disease-free survival (DFS) for the potential adjuvant treatment of patients with RCC following nephrectomy or following nephrectomy and resection of metastatic lesions.

Based on an interim analysis conducted by an independent Data Monitoring Committee, pembrolizumab monotherapy demonstrated a statistically significant and clinically meaningfully improvement in DFS compared with placebo. The trial will continue to evaluate overall survival (OS), a key secondary endpoint.

The safety profile of pembrolizumab in this trial was consistent with that observed in previously reported studies. Results will be presented at an upcoming medical meeting and will be submitted to regulatory authorities."



#### Pembrolizumab versus Placebo as Post-Nephrectomy Adjuvant Therapy for Patients with Renal Cell Carcinoma: Randomized, Double-Blind, Phase III KEYNOTE-564 Study

Choueiri TK et al. ASCO 2021; Abstract LBA5.

Plenary Session: Sunday, June 6, 1:00 PM - 4:00 PM EDT



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# Case Presentation — Dr Malhotra: A 75-year-old man with metastatic RCC treated with axitinib/nivolumab

75-year-old male who presented with hematuria and CT scans showed 5 cm left kidney mass. He had left nephrectomy in January 2017. In May 2018 he presented with extensive lung mets, biopsy proven. Motzer score was low with anemia. He was started on axitinib and nivolumab with excellent ongoing response for 3 years. Dose of axitinib had to be reduced to 5 mg once daily due to hand-foot syndrome.

#### Question

How do the faculty members handle dose of axitinib?



# Case Presentation — Dr Malhotra: A 65-year-old man with RCC with extensive bone and lung metastases

65-year-old male presented with left flank pain and CT showed large 12 cm left kidney mass. Work up showed extensive bone and lung mets. He was started on axitinib and avelumab. He had very good partial response and continues with good response. His Motzer score was low with anemia and hypercalcemia.

#### Question

How does the faculty decide between this regimen and ipi/nivo?



# Case Presentation — Dr Malhotra: A 70-year-old man with RCC with 3 small lung metastases

70-year-old male with right kidney mass — biopsy proven RCC with three 1 cm lung mets — hypermetabolic on PET. Low risk. He had 4 cycles of ipi/nivo with excellent response.

#### Question

Would the faculty consider nephrectomy?



## **Agenda**

#### **MODULE 1: Cases from the Practice of Dr Malhotra**

- A 63-year-old man with metastatic renal cell carcinoma (RCC) treated with ipilimumab/nivolumab
- A 67-year-old man with metastatic RCC and high-risk oncocytic features who responded to ipilimumab/nivolumab
- A 65-year-old man with Stage III RCC

**MODULE 2: Consensus or Controversy – Clinical Investigator Approaches to Clinical Scenarios** 

**MODULE 3: Renal Cell Carcinoma Journal Club with Dr Stadler** 

**MODULE 4: Key Data Sets** 

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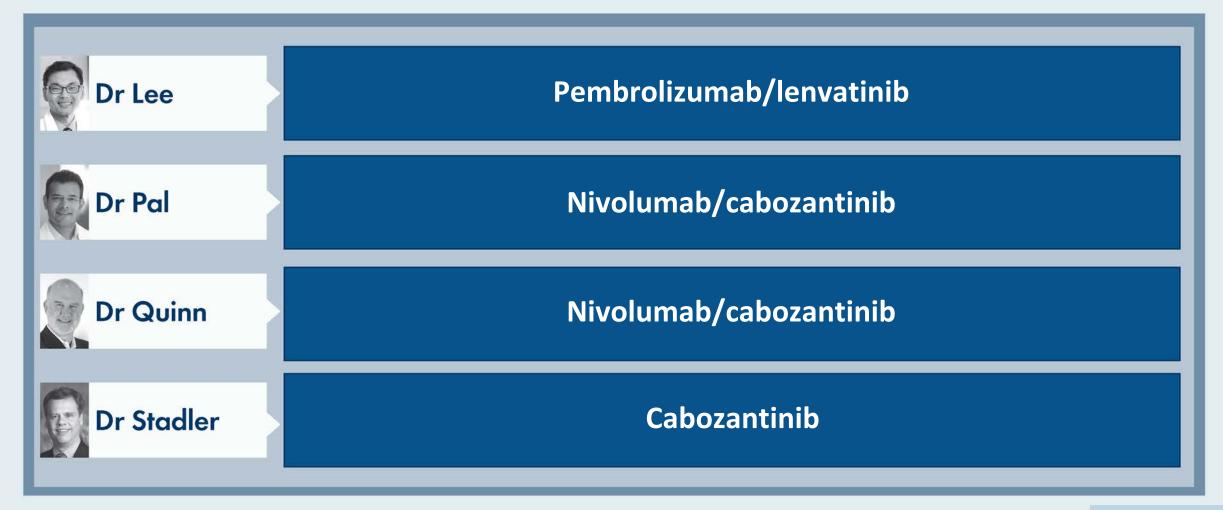


Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a 65-year-old patient with a history of nephrectomy for clear cell renal cell carcinoma (RCC) who on routine follow-up 3 years later is found to have asymptomatic bone metastases (PS 0)?

- 1. Nivolumab/ipilimumab
- 2. Avelumab/axitinib
- 3. Pembrolizumab/axitinib
- 4. Pembrolizumab/lenvatinib
- 5. Nivolumab/cabozantinib
- 6. Tyrosine kinase inhibitor (TKI) monotherapy
- 7. Anti-PD-1/PD-L1 monotherapy
- 8. Other



Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a <u>65-year-old</u> patient with a history of nephrectomy for clear cell renal cell carcinoma (RCC) who on routine follow-up 3 years later is found to have asymptomatic bone metastases (PS 0)?



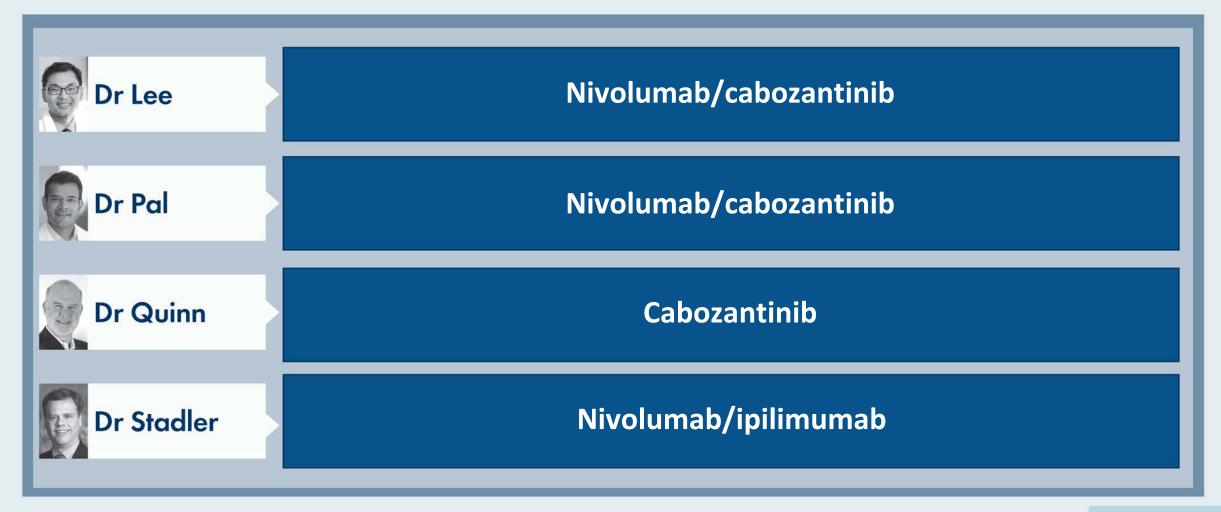


Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a <u>65-year-old</u> patient who presents with clear cell RCC with multiple painful bone metastases and hemoglobin (Hb) of 11.4 g/dL (PS 1)?

- 1. Nivolumab/ipilimumab
- 2. Avelumab/axitinib
- 3. Pembrolizumab/axitinib
- 4. Pembrolizumab/lenvatinib
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Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a <u>65-year-old</u> patient who presents with clear cell RCC with multiple painful bone metastases and a hemoglobin (Hb) of 11.4 g/dL (PS = 1)?



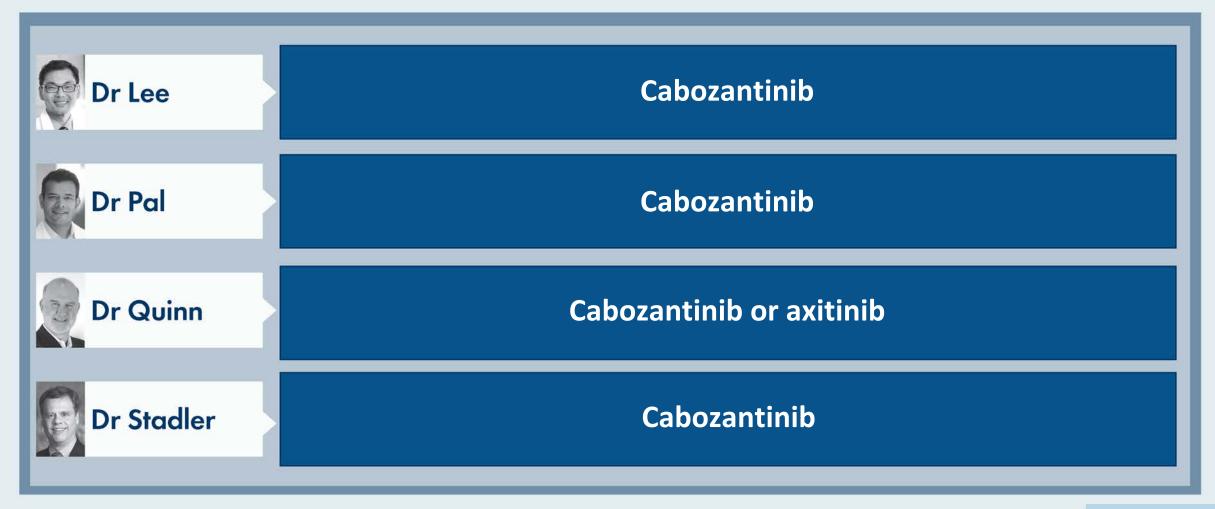


In general, what would you recommend as second-line treatment for a 65-year-old patient (PS 0) with metastatic clear cell RCC who receives first-line ipilimumab/nivolumab and experiences disease progression after 12 months?

- 1. TKI monotherapy
- 2. Everolimus
- 3. Lenvatinib + everolimus
- 4. Avelumab/axitinib
- 5. Pembrolizumab/axitinib
- 6. Nivolumab/cabozantinib
- 7. Anti-PD-1/PD-L1 monotherapy
- 8. Other

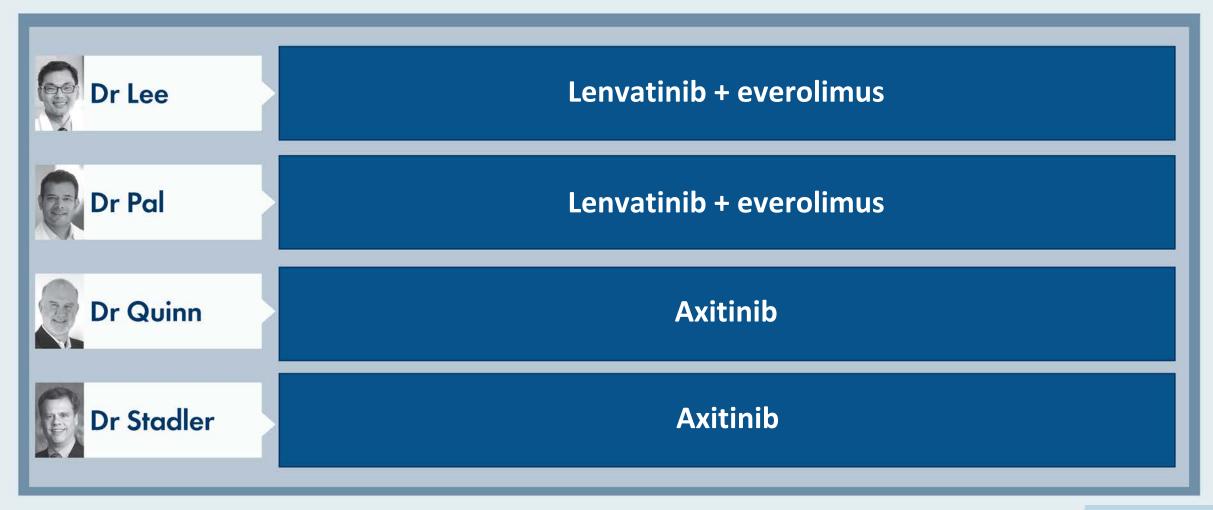


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In general, what would you recommend as second-line treatment for a 65-year-old patient (PS 0) with metastatic clear cell RCC who receives first-line nivolumab/cabozantinib and experiences disease progression after 12 months?



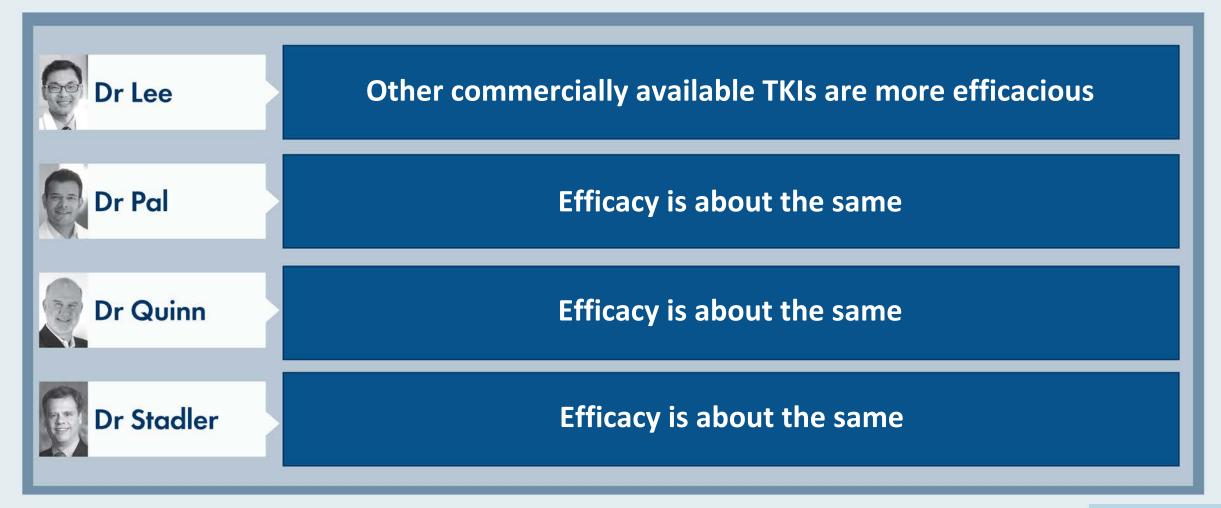


What would be your most likely third-line systemic therapy recommendation for a 65-year-old patient with metastatic RCC who experienced disease progression on first-line pembrolizumab/axitinib and second-line cabozantinib (PS 0)?



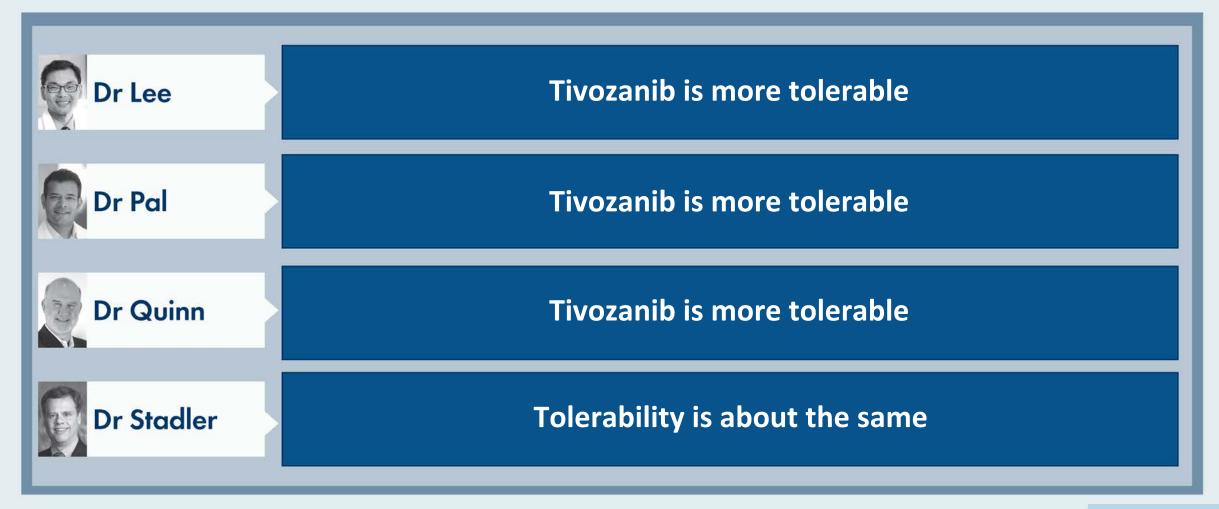


In general, how would you compare the efficacy of tivozanib to that of other commercially available tyrosine kinase inhibitors (TKIs) (eg, axitinib, cabozantinib, lenvatinib) in patients with relapsed metastatic RCC?





In general, how would you compare the tolerability of tivozanib to that of other commercially available TKIs (eg, axitinib, cabozantinib, lenvatinib) in patients with relapsed metastatic RCC?





## **Agenda**

**MODULE 1: Cases from the Practice of Dr Malhotra** 

**MODULE 2: Consensus or Controversy – Clinical Investigator Approaches to Clinical Scenarios** 

#### **MODULE 3: Renal Cell Carcinoma Journal Club with Dr Stadler**

- Active surveillance of metastatic RCC: Results from a prospective observational study (MaRCC)
- Optimized management of nivolumab and ipilimumab in advanced RCC: A response-based Phase II study (OMNIVORE)

**MODULE 4: Key Data Sets** 

**MODULE 5: Other Recent Data Sets** 



# Active Surveillance of Metastatic Renal Cell Carcinoma: Results From a Prospective Observational Study (MaRCC)

```
Michael R. Harrison, MD <sup>1</sup>; Brian A. Costello, MD<sup>2</sup>; Nrupen A. Bhavsar, PhD<sup>1</sup>; Ulka Vaishampayan, MD<sup>3</sup>; Sumanta K. Pal, MD <sup>4</sup>; Yousef Zakharia, MD<sup>5</sup>; Heather S. L. Jim, PhD <sup>6</sup>; Mayer N. Fishman, MD<sup>6</sup>; Ana M. Molina, MD<sup>7</sup>; Christos E. Kyriakopoulos, MD<sup>8</sup>; Che-Kai Tsao, MD<sup>9</sup>; Leonard J. Appleman, MD<sup>10</sup>; Benjamin A. Gartrell, MD<sup>11,12</sup>; Arif Hussain, MD<sup>13</sup>; Walter M. Stadler, MD <sup>14</sup>; Neeraj Agarwal, MD<sup>15</sup>; Russell K. Pachynski, MD<sup>16</sup>; Thomas E. Hutson, DO<sup>17</sup>; Hans J. Hammers, MD<sup>18</sup>; Christopher W. Ryan, MD<sup>19</sup>; Brant A. Inman, MD <sup>1</sup>; Jack Mardekian, PhD<sup>20</sup>; Azah Borham, PharmD<sup>20</sup>; and Daniel J. George, MD<sup>1</sup>
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*Cancer* 2021;127(11):1827-35.

# Optimized Management of Nivolumab and Ipilimumab in Advanced Renal Cell Carcinoma: A Response-Based Phase II Study (OMNIVORE)

Rana R. McKay, MD<sup>1</sup>; Bradley A. McGregor, MD<sup>2</sup>; Wanling Xie, MS<sup>2</sup>; David A. Braun, MD, PhD<sup>2</sup>; Xiao Wei, MD<sup>2</sup>; Christos E. Kyriakopoulos, MD<sup>3</sup>; Yousef Zakharia, MD<sup>4</sup>; Benjamin L. Maughan, MD, PharmD<sup>5</sup>; Tracy L. Rose, MD<sup>6</sup>; Walter M. Stadler, MD<sup>7</sup>; David F. McDermott, MD<sup>8</sup>; Lauren C. Harshman, MD<sup>2</sup>; and Toni K. Choueiri, MD<sup>2</sup>



#### **Agenda**

**MODULE 1: Cases from the Practice of Dr Malhotra** 

**MODULE 2: Consensus or Controversy – Clinical Investigator Approaches to Clinical Scenarios** 

**MODULE 3: Renal Cell Carcinoma Journal Club with Dr Stadler** 

- Active surveillance of metastatic RCC: Results from a prospective observational study (MaRCC)
- Optimized management of nivolumab and ipilimumab in advanced RCC: A response-based Phase II study (OMNIVORE)

**MODULE 4: Key Data Sets** 

**MODULE 5: Other Recent Data Sets** 



Pembrolizumab (Pembro) plus Axitinib (Axi) versus Sunitinib as First-Line Therapy for Advanced Clear Cell Renal Cell Carcinoma (ccRCC): Results from 42-Month Follow-Up of KEYNOTE-426

Rini BI et al.

ASCO 2021; Abstract 4500.

**Genitourinary Cancer – Kidney and Bladder: Monday, June 7, 8:00 AM - 11:00 AM** 



# Phase 2 Study of Belzutifan (MK-6482), an Oral Hypoxia-Inducible Factor 2α (HIF-2α) Inhibitor, for Von Hippel-Lindau (VHL) Disease-Associated Clear Cell Renal Cell Carcinoma (ccRCC)

Srinivasan R et al.

ASCO 2021; Abstract 4555.

**Genitourinary Cancer – Kidney and Bladder: Monday, June 7, 8:00 AM - 11:00 AM** 



# A Phase 1b/2 Umbrella Study of Investigational Immune and Targeted Combination Therapies as First-Line Therapy for Patients with Advanced Renal Cell Carcinoma (RCC)

Plimack ER et al.

ASCO 2021; Abstract TPS4594.

**Genitourinary Cancer – Kidney and Bladder: Monday, June 7, 8:00 AM - 11:00 AM** 

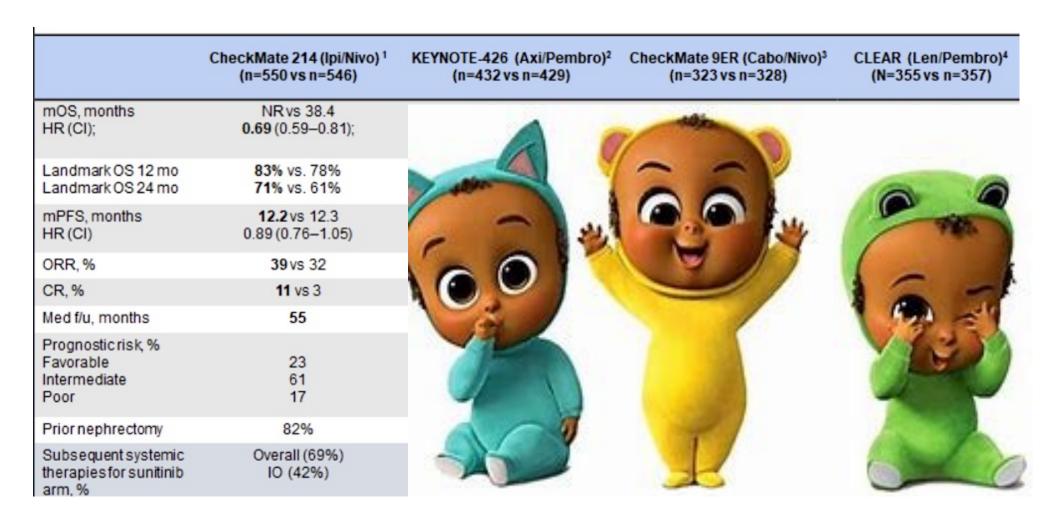


## Indirect comparison of the 4 regimens available.

	CheckMate 214 (Ipi/Nivo) 1 (n=550 vs n=546)	KEYNOTE-426 (Axi/Pembro) <sup>2</sup> (n=432 vs n=429)	CheckMate 9ER (Cabo/Nivo) <sup>3</sup> (n=323 vs n=328)	CLEAR (Len/Pembro) <sup>4</sup> (N=355 vs n=357)
mOS, months HR (CI);	NR vs 38.4 0.69 (0.59–0.81);	NR vs 35.7 <b>0.68</b> (0.55-0.85);	NR vs NR <b>0.60</b> (0.40–0.89);	NR vs NR <b>0.66</b> (0.49-0.88)
Landmark OS 12 mo Landmark OS 24 mo	83% vs. 78% 71% vs. 61%	90% vs. 79% 74% vs. 66%	87% vs. 78% (est) 74% vs 60% (est)	90% vs 79% (est.) 79% vs. 70%
mPFS, months HR (CI)	<b>12.2</b> vs 12.3 0.89 (0.76–1.05)	<b>15.4</b> vs 11.1 0.71 (0.60–0.84)	<b>16.6</b> vs 8.3 0.51 (0.41–0.64)	<b>23.9</b> vs 9.2 0.39 (0.32-0.49)
ORR, %	<b>39</b> vs 32	60 vs 40	56 vs 27	71 vs 36
CR, %	<b>11</b> vs 3	9 vs 3	8 vs 5	16 vs 4
Med f/u, months	55	30.6	18.1	27
Prognosticrisk, % Favorable Intermediate Poor	23 61 17	32 55 13	23 58 19	31 59 9
Prior nephrectomy	82%	83%	69%	74%
Subsequent systemic therapies for sunitinib arm, %	Overall (69%) IO (42%)	Overall (69%) IO (48%)	Overall (40%) IO (29%)	NR

#### Please handle with care....

## Indirect comparison of the 4 regimens available.



#### Please handle with care....



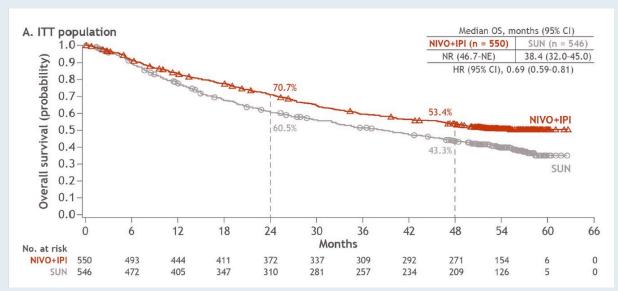
## Nivolumab plus ipilimumab versus sunitinib for first-line treatment of advanced renal cell carcinoma: extended 4-year follow-up of the phase III CheckMate 214 trial

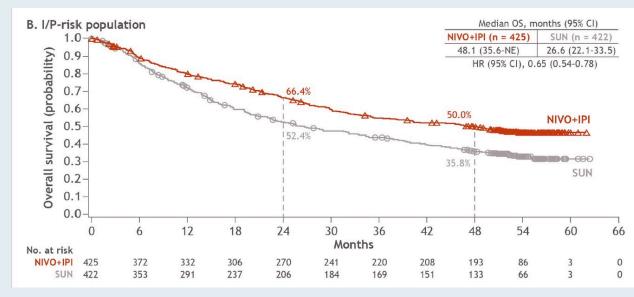
Laurence Albiges , 1 Nizar M Tannir, 2 Mauricio Burotto, 3 David McDermott, 4,5 Elizabeth R Plimack, Philippe Barthélémy, A Camillo Porta , 9 Thomas Powles, 10,11 Frede Donskov, 12 Saby George, 13 Christian K Kollmannsberger, 14 Howard Gurney, 15,16 Marc-Oliver Grimm, 17 Yoshihiko Tomita, 18 Daniel Castellano, 19 Brian I Rini, 20 Toni K Choueiri, 21 Shruti Shally Saggi,<sup>22</sup> M Brent McHenry,<sup>23</sup> Robert J Motzer<sup>24</sup>

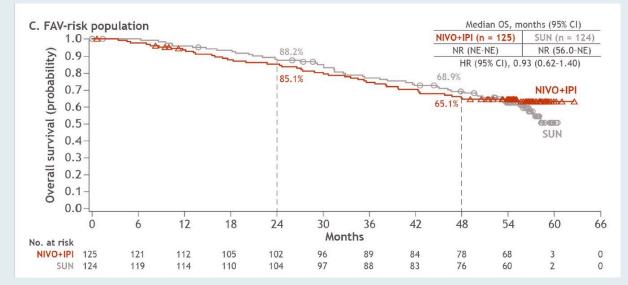
ESMO Open 2020;5(6):e001079



# CheckMate 214: OS in ITT, Intermediate/Poor-Risk and Favorable-Risk Populations

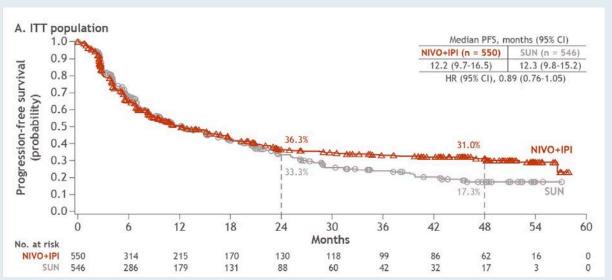


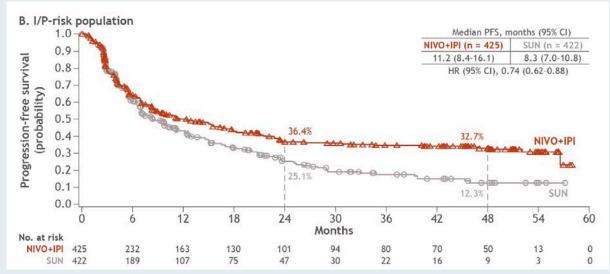


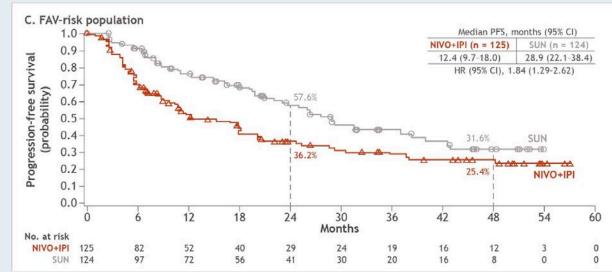




# CheckMate 214: PFS in ITT, Intermediate/Poor-Risk and Favorable-Risk Populations









#### Lancet Oncol 2020;21:1563-73

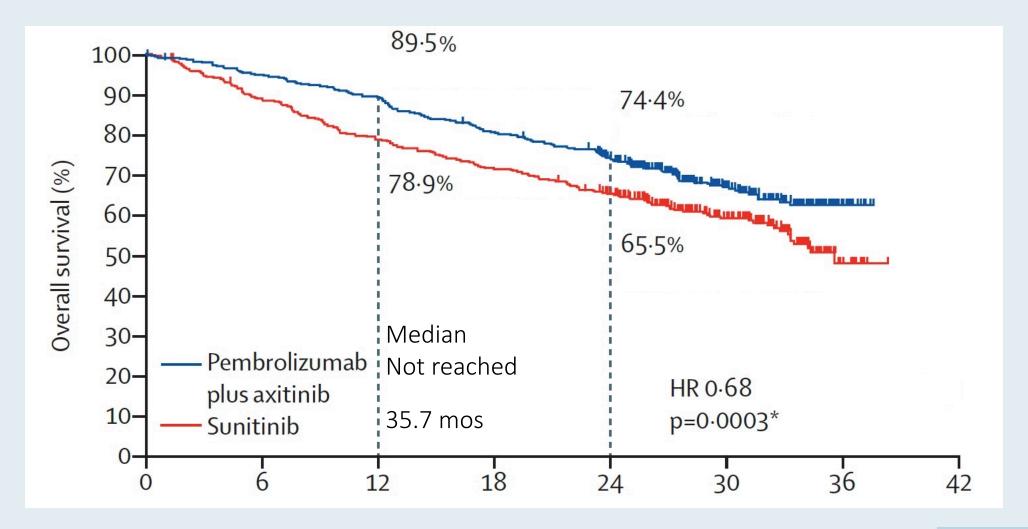
Pembrolizumab plus axitinib versus sunitinib monotherapy as first-line treatment of advanced renal cell carcinoma (KEYNOTE-426): extended follow-up from a randomised, open-label, phase 3 trial



Thomas Powles, Elizabeth R Plimack, Denis Soulières, Tom Waddell, Viktor Stus, Rustem Gafanov, Dmitry Nosov, Frédéric Pouliot, Bohuslav Melichar, Ihor Vynnychenko, Sergio J Azevedo, Delphine Borchiellini, Raymond S McDermott, Jens Bedke, Satoshi Tamada, Lina Yin, Mei Chen, L Rhoda Molife, Michael B Atkins, Brian I Rini



## **KEYNOTE-426: Overall Survival with Extended Follow-Up**





#### N Engl J Med 2021;384(9):829-41

The NEW ENGLAND JOURNAL of MEDICINE

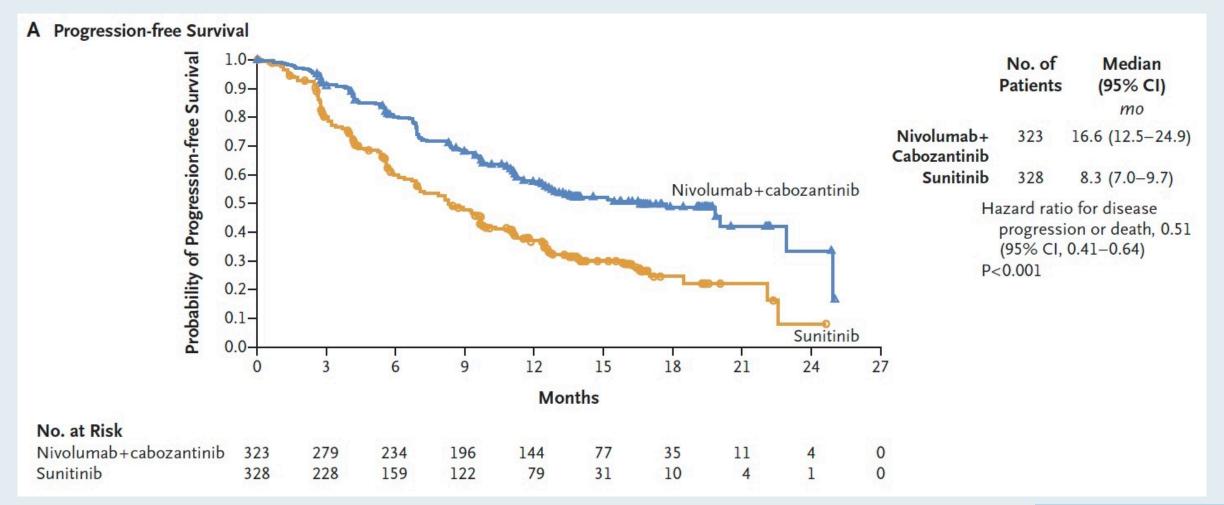
#### ORIGINAL ARTICLE

## Nivolumab plus Cabozantinib versus Sunitinib for Advanced Renal-Cell Carcinoma

T.K. Choueiri, T. Powles, M. Burotto, B. Escudier, M.T. Bourlon, B. Zurawski, V.M. Oyervides Juárez, J.J. Hsieh, U. Basso, A.Y. Shah, C. Suárez, A. Hamzaj, J.C. Goh, C. Barrios, M. Richardet, C. Porta, R. Kowalyszyn, J.P. Feregrino, J. Żołnierek, D. Pook, E.R. Kessler, Y. Tomita, R. Mizuno, J. Bedke, J. Zhang, M.A. Maurer, B. Simsek, F. Ejzykowicz, G.M. Schwab, A.B. Apolo, and R.J. Motzer, for the CheckMate 9ER Investigators\*

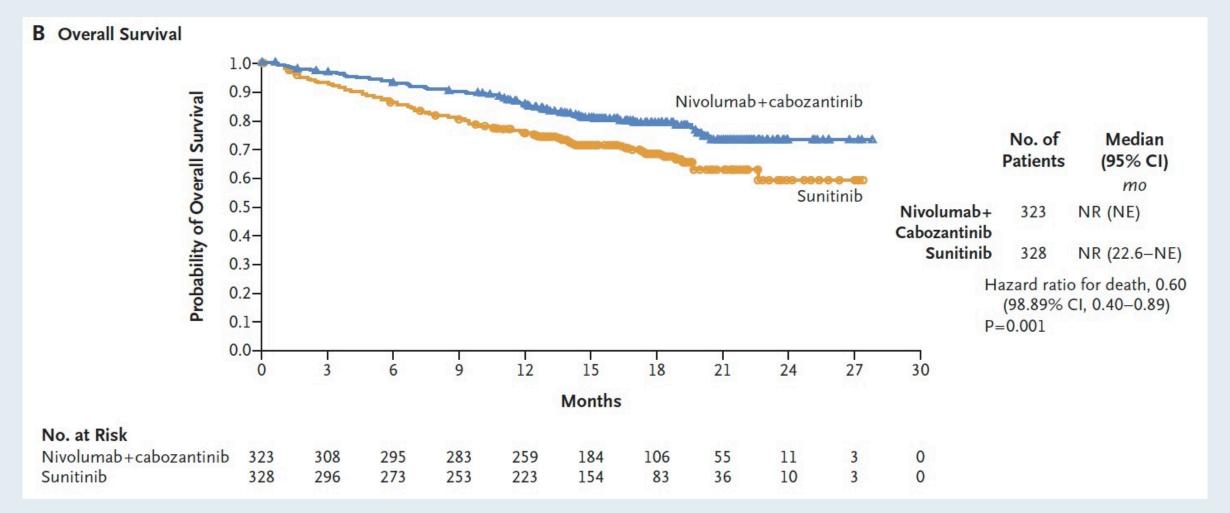


## **Progression-Free Survival in the Intention-to-Treat Population**





## **Overall Survival in the Intention-to-Treat Population**





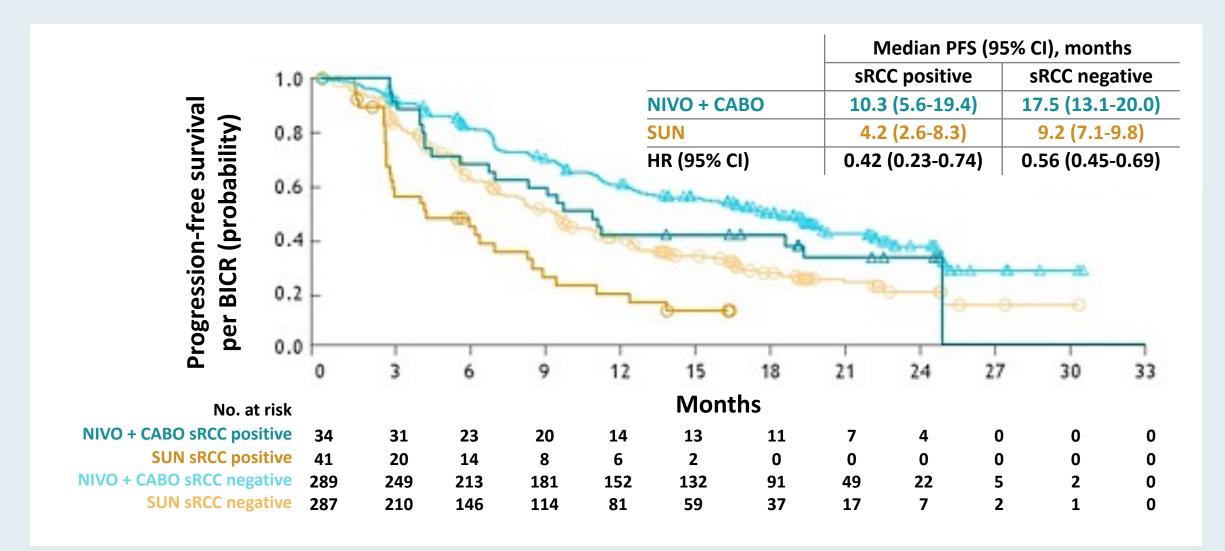
Nivolumab + Cabozantinib (NIVO + CABO) versus Sunitinib (SUN) for Advanced Renal Cell Carcinoma (aRCC): Outcomes by Sarcomatoid Histology and Updated Trial Results with Extended Follow-Up of CheckMate 9ER

Motzer RJ et al.

Genitourinary Cancers Symposium 2021; Abstract 308.

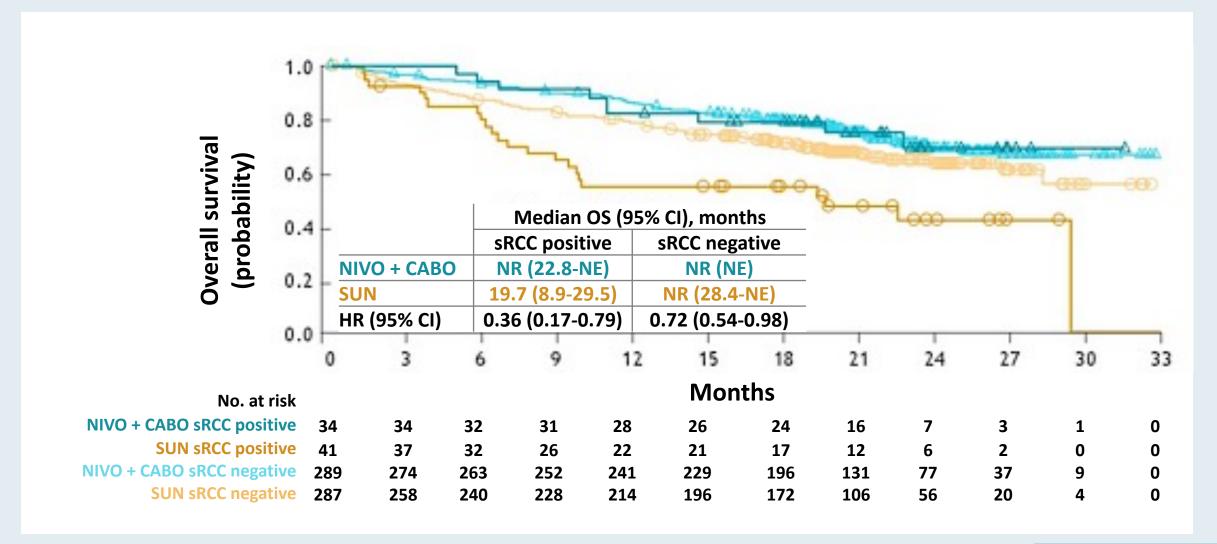


## **Progression-Free Survival per BICR by Sarcomatoid Histology**





#### **Overall Survival by Sarcomatoid Histology**





#### N Engl J Med 2021; [Online ahead of print].

The NEW ENGLAND JOURNAL of MEDICINE

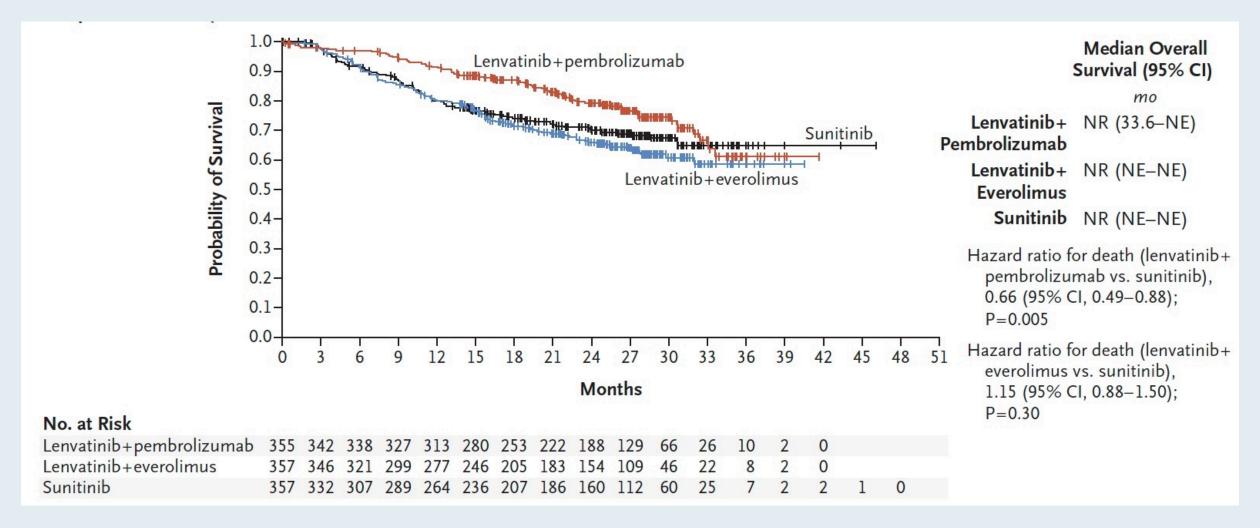
#### ORIGINAL ARTICLE

# Lenvatinib plus Pembrolizumab or Everolimus for Advanced Renal Cell Carcinoma

R. Motzer, B. Alekseev, S.-Y. Rha, C. Porta, M. Eto, T. Powles, V. Grünwald, T.E. Hutson, E. Kopyltsov, M.J. Méndez-Vidal, V. Kozlov, A. Alyasova, S.-H. Hong, A. Kapoor, T. Alonso Gordoa, J.R. Merchan, E. Winquist, P. Maroto, J.C. Goh, M. Kim, H. Gurney, V. Patel, A. Peer, G. Procopio, T. Takagi, B. Melichar, F. Rolland, U. De Giorgi, S. Wong, J. Bedke, M. Schmidinger, C.E. Dutcus, A.D. Smith, L. Dutta, K. Mody, R.F. Perini, D. Xing, and T.K. Choueiri, for the CLEAR Trial Investigators\*

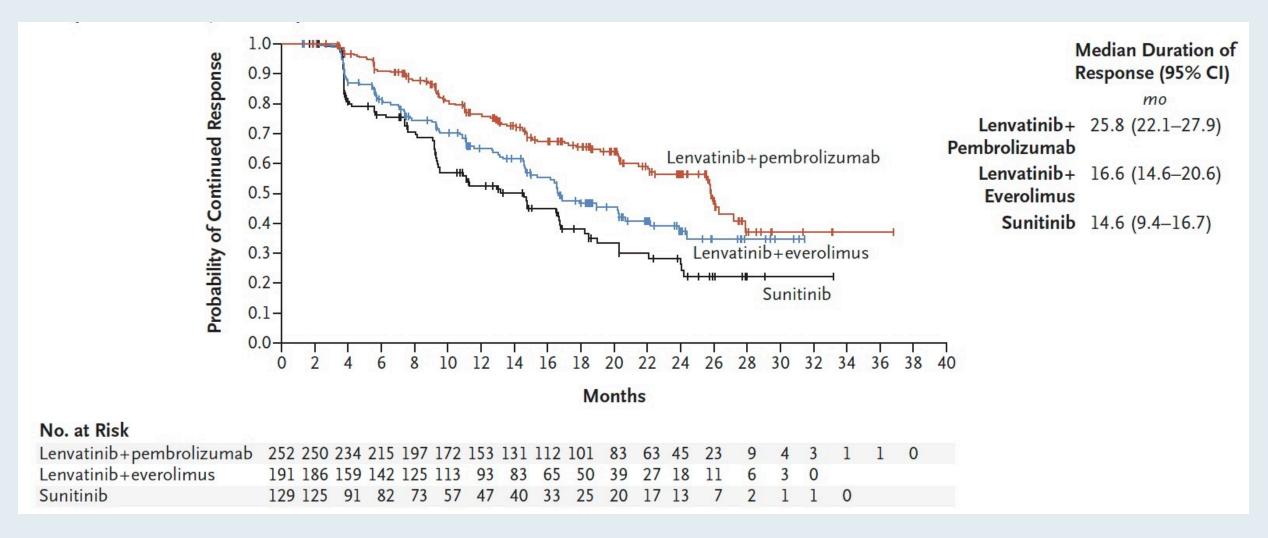


## **Kaplan-Meier Analysis of Overall Survival**





#### **Kaplan-Meier Analysis of Response Duration**





#### **Confirmed Tumor Responses**

Measure	Lenvatinib plus Pembrolizumab (N = 355)	Lenvatinib plus Everolimus (N = 357)	Sunitinib (N = 357)
Objective response (95% CI) — %†	71.0 (66.3–75.7)	53.5 (48.3–58.7)	36.1 (31.2–41.1)
Relative risk vs. sunitinib (95% CI)	1.97 (1.69–2.29)	1.48 (1.26–1.74)	Reference
Best overall response — no. (%)			
Complete response	57 (16.1)	35 (9.8)	15 (4.2)
Partial response	195 (54.9)	156 (43.7)	114 (31.9)
Stable disease	68 (19.2)	120 (33.6)	136 (38.1)
Progressive disease	19 (5.4)	26 (7.3)	50 (14.0)
Unknown or could not be evaluated:	16 (4.5)	20 (5.6)	42 (11.8)
Median time to response (range) — mo	1.94 (1.41–18.50)	1.91 (1.41–14.36)	1.94 (1.61–16.62)
Median duration of response (95% CI) — mo	25.8 (22.1–27.9)	16.6 (14.6–20.6)	14.6 (9.4–16.7)



# Selected Adverse Events of Any Cause That Emerged or Worsened During Treatment in at Least 25% of the Patients in Any Treatment Group

Event	Lenvatinib plus Pembrolizumab (N=352)			Lenvatinib plus Everolimus (N = 355)		Sunitinib (N=340)	
	Any Grade	Grade ≥3†	Any Grade	Grade ≥3†	Any Grade	Grade ≥3†	
			number of patients (percent)				
Any event	351 (99.7)	290 (82.4)	354 (99.7)	295 (83.1)	335 (98.5)	244 (71.8)	
Diarrhea	216 (61.4)	34 (9.7)	236 (66.5)	41 (11.5)	168 (49.4)	18 (5.3)	
Hypertension	195 (55.4)	97 (27.6)	162 (45.6)	80 (22.5)	141 (41.5)	64 (18.8)	
Hypothyroidism‡	166 (47.2)	5 (1.4)	95 (26.8)	2 (0.6)	90 (26.5)	0	
Decreased appetite	142 (40.3)	14 (4.0)	144 (40.6)	22 (6.2)	105 (30.9)	5 (1.5)	
Fatigue	141 (40.1)	15 (4.3)	149 (42.0)	27 (7.6)	125 (36.8)	15 (4.4)	



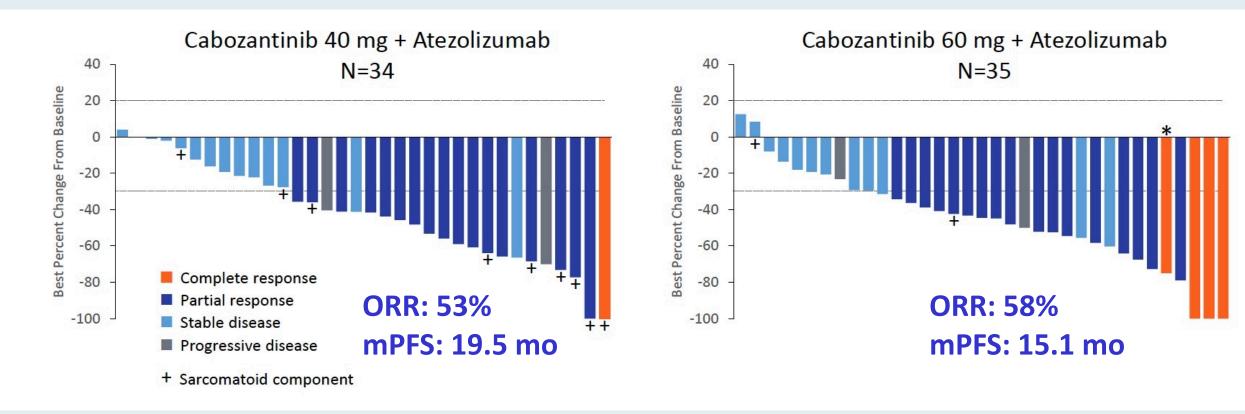
# Cabozantinib (C) in Combination with Atezolizumab (A) as First-Line Therapy for Advanced Clear Cell Renal Cell Carcinoma (ccRCC): Results from the COSMIC-021 Study

Pal S et al.

ESMO 2020; Abstract 7020.



### COSMIC-021: Cabozantinib/Atezolizumab for Previously Untreated Advanced ccRCC





### Select, Ongoing Phase III Clinical Trials for Previously Untreated Metastatic Renal Cell Carcinoma

Study acronym	Target accrual	Randomization	Primary endpoint(s)	Estimated primary completion
COSMIC-313	840	<ul> <li>Cabozantinib + nivolumab + ipilimumab         (4 doses) → cabozantinib + nivolumab</li> <li>Placebo + nivolumab + ipilimumab         (4 doses) → placebo + nivolumab</li> </ul>	PFS	Nov 2021
PDIGREE	1,046	<ul> <li>After Induction nivolumab/ipilimumab</li> <li>Pts with CR → Nivolumab</li> <li>Pts with non-CR or non-PD, <u>randomized</u></li> <li>→ Nivolumab</li> <li>→ Nivolumab + Cabozantinib</li> <li>Pts with PD → Cabozantinib</li> </ul>	OS	Sept 2021



# FDA Approves Tivozanib for Relapsed or Refractory Advanced RCC

Press Release: March 10, 2021

"On March 10, 2021, the Food and Drug Administration approved tivozanib, a kinase inhibitor, for adult patients with relapsed or refractory advanced renal cell carcinoma (RCC) following two or more prior systemic therapies.

Efficacy was evaluated in TIVO-3 (NCT02627963), a randomized (1:1), open-label, multicenter trial of tivozanib versus sorafenib in patients with relapsed or refractory advanced RCC who received two or three prior systemic treatments, including at least one VEGFR kinase inhibitor other than sorafenib or tivozanib.

The recommended tivozanib dose is 1.34 mg once daily (with or without food) for 21 consecutive days every 28 days until disease progression or unacceptable toxicity."



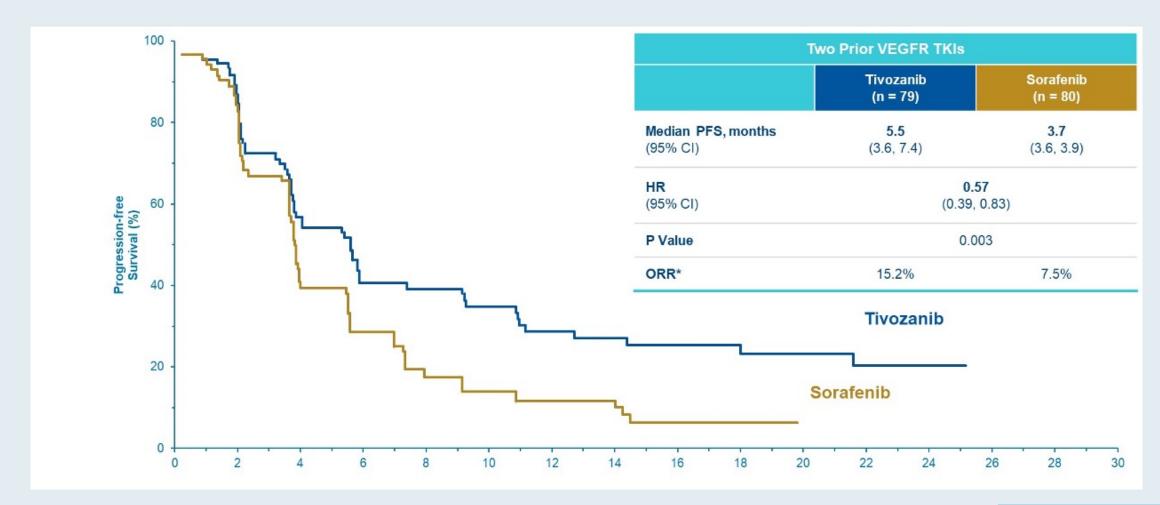
# Tivozanib in Patients with Advanced Renal Cell Carcinoma (aRCC) Who Have Progressed After Prior Treatment of Axitinib: Results from TIVO-3

Rini BI et al.

Genitourinary Cancers Symposium 2021; Abstract 278.



## TIVO-3: Progression-Free Survival and ORR in Patient Subgroup with 2 Prior TKIs



#### **TIVO-3: Tivozanib After Axitinib**

RCC Population	N (sub	jects)	mPFS (m	nonths)	HR	OF	RR
	<u>Tivo</u>	<u>Sor</u>	<u>Tivo</u>	<u>Sor</u>		<u>Tivo</u>	<u>Sor</u>
ITT	175	175	5.6	3.9	0.73	18%	8%
3 <sup>rd</sup> Line Any Prior Axitinib	47	46	5.5	3.9	0.71	16%	6%
4 <sup>th</sup> Line Any Prior Axitinib	36	43	5.5	3.6	0.64	11%	10%
3 <sup>rd</sup> and 4 <sup>th</sup> Line Any Prior Axitinib	83	89	5.5	3.7	0.68	13%	8%



#### A comparison of sunitinib with cabozantinib, crizotinib, and $\rightarrow \mathbb{Q}^*$ savolitinib for treatment of advanced papillary renal cell carcinoma: a randomised, open-label, phase 2 trial

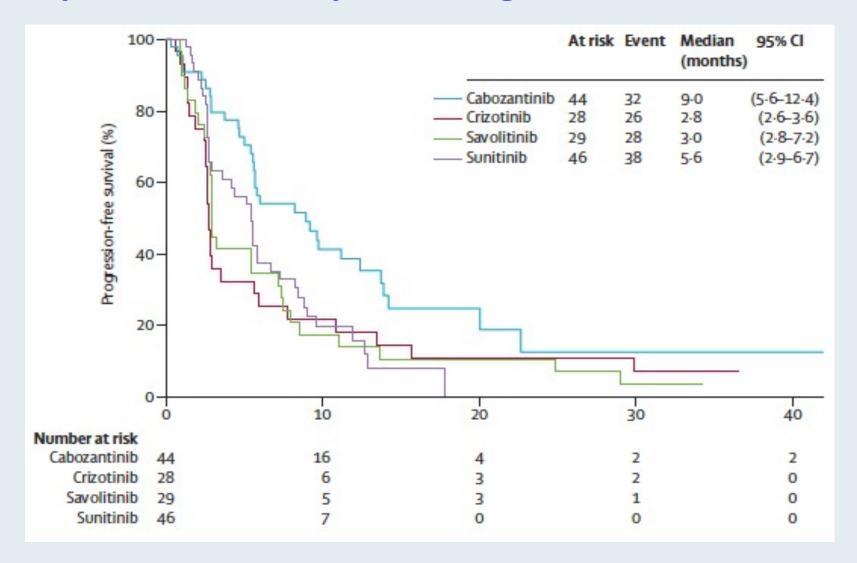




Sumanta K Pal, Catherine Tangen, Ian M Thompson Jr, Naomi Balzer-Haas, Daniel J George, Daniel Y C Heng, Brian Shuch, Mark Stein, Maria Tretiakova, Peter Humphrey, Adebowale Adeniran, Vivek Narayan, Georg A Bjarnason, Ulka Vaishampayan, Ajjai Alva, Tian Zhang, Scott Cole, Melissa Plets, John Wright, Primo N Lara Jr.

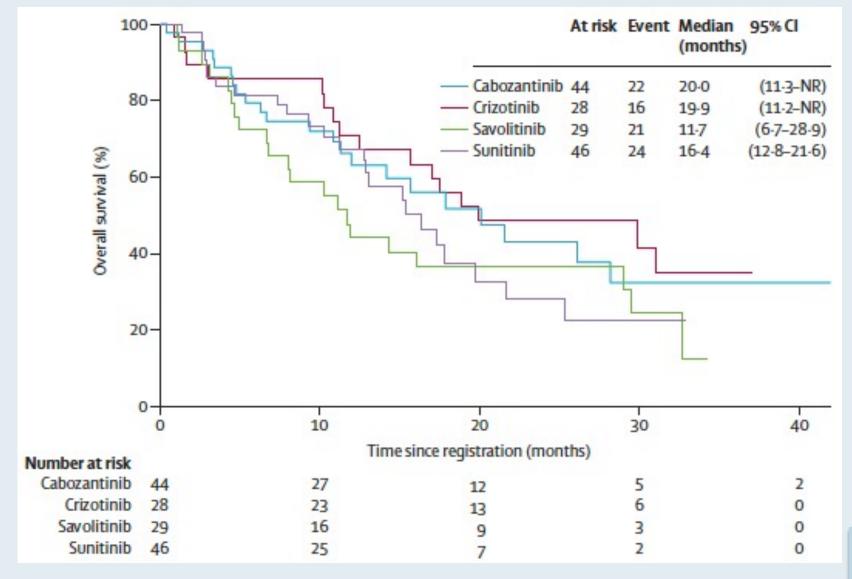


#### **Kaplan-Meier Analysis of Progression-Free Survival**





#### **Kaplan-Meier Analysis of Overall Survival**





### FDA Grants Priority Review to Belzutifan for von Hippel-Lindau Disease-Associated RCC

Press Release - March 16, 2021

"The FDA accepted a new drug application for belzutifan to treat von Hippel-Lindau disease-associated renal cell carcinoma and granted it priority review based on response rate results from a phase 2 trial.

A new drug application for belzutifan was accepted by the FDA and granted priority review for the treatment of patients with von Hippel-Lindau (VHL) disease-associated renal cell carcinoma (RCC), not requiring immediate surgery...

The application is based on results of a phase 2 trial, Study-004 (NCT03401788), of belzutifan in the treatment of VHL disease-associated RCC, with a primary end point of objective response rate and secondary measures of disease control rate, duration of response, time to response, progression-free survival, time to surgery, and safety. Patients treated on the trial must have had at least 1 measurable solid tumor localized to the kidneys and were not in need of immediate surgical intervention."

**Genitourinary Cancers Symposium 2021; Abstract 273.** 

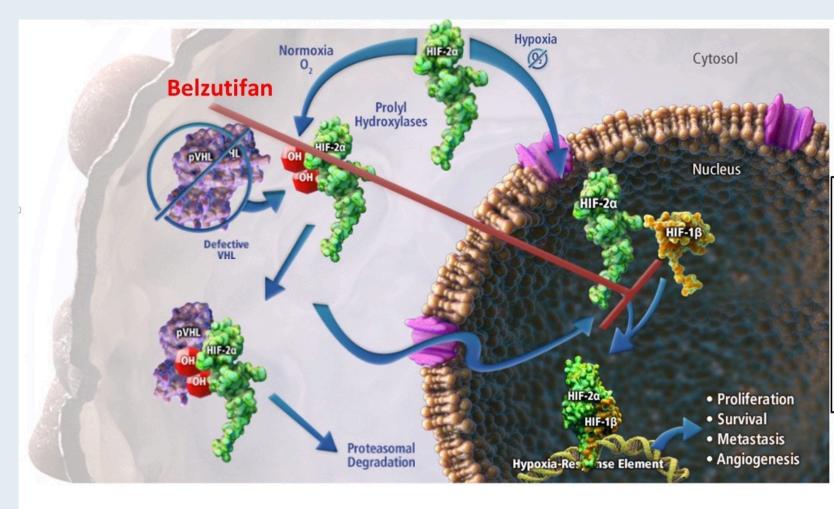
# The Oral HIF-2α Inhibitor Belzutifan (MK-6482) in Patients With Advanced Clear Cell Renal Cell Carcinoma: Updated Follow-up of a Phase 1/2 Study

<u>Todd Michael Bauer</u>,<sup>1</sup> Toni K. Choueiri,<sup>2</sup> Kyriakos P. Papadopoulos,<sup>3</sup> Elizabeth R. Plimack,<sup>4</sup> Jaime R. Merchan,<sup>5</sup> David F. McDermott,<sup>6</sup> M. Dror Michaelson,<sup>7</sup> Leonard Joseph Appleman,<sup>8</sup> Sanjay Thamake,<sup>9</sup> Rodolfo F. Perini,<sup>9</sup> Eric Kristopher Park,<sup>9</sup> Eric Jonasch<sup>10</sup>

<sup>1</sup>Sarah Cannon Research Institute/Tennessee Oncology, PLLC, Nashville, TN, USA; <sup>2</sup>Dana-Farber Cancer Institute and Harvard Medical School, Boston, MA, USA; <sup>3</sup>South Texas Accelerated Research Therapeutics (START), San Antonio, TX, USA; <sup>4</sup>Fox Chase Cancer Center, Philadelphia, PA, USA; <sup>5</sup>University of Miami, Miami, FL, USA; <sup>6</sup>Beth Israel Deaconess Medical Center, Boston, MA, USA; <sup>7</sup>Massachusetts General Hospital, Boston, MA, USA; <sup>8</sup>University of Pittsburgh Medical Center, Pittsburgh, PA; <sup>9</sup>Merck & Co., Inc., Kenilworth, NJ, USA; <sup>10</sup>The University of Texas MD Anderson Cancer Center, Houston, TX, USA



#### **pVHL Deficiency Results in HIF-2-alpha Activation**

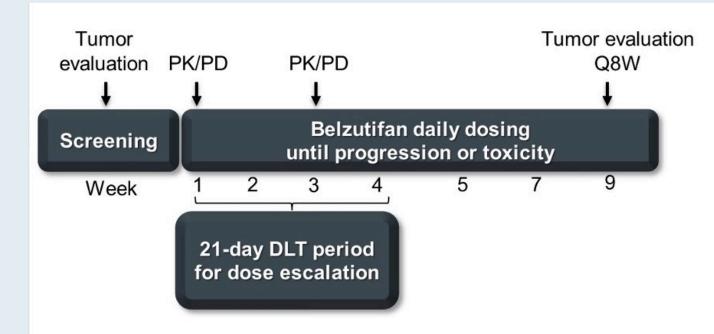


- 90% of patients with sporadic ccRCC have defective pVHL function<sup>1</sup>
- Loss of pVHL function results in constitutive activation of HIF-2α<sup>2</sup>
- Belzutifan is a potent, selective, small molecule HIF-2α inhibitor

1. Linehan WM, Rickets CJ. Nat Rev Urol. 2019;16:539-552. 2. Couvé S et al. Cancer Res. 2014;74:6554-6564.



#### **Study Design**

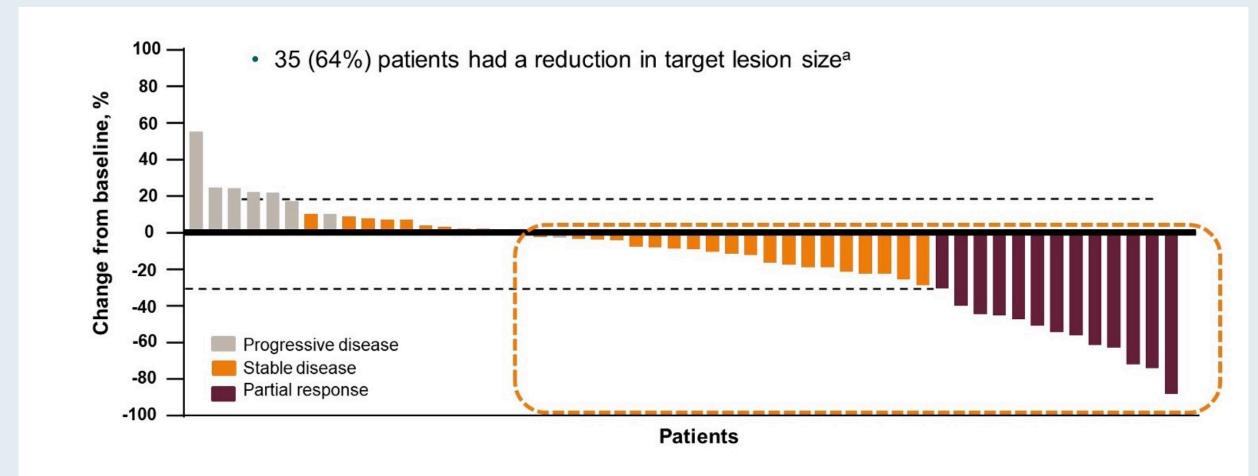


- Dose-escalation cohort for patients with advanced solid tumors
- Dose-expansion cohort for patients with advanced ccRCC who previously received ≥1 therapy
  - Key end points: Safety, objective response rate, duration of response

- Dose of 120 mg once daily selected for further clinical development from the dose-escalation cohort
- 55 patients with previously treated advanced ccRCC enrolled at 120 mg orally once daily in the dose-expansion cohort
  - 44 (80%) discontinued
    - Most common reason was disease progression: 60%
  - 11 (20%) have treatment ongoing
- Median (range) follow-up:
  - 27.7 (24.8-34.3) months



## Best Tumor Change from Baseline (Investigator Assessment in the ccRCC Cohort)



<sup>a</sup>3 patients were nonevaluable. Data cutoff: June 1, 2020.



Genitourinary Cancers Symposium 2021; Abstract 272.

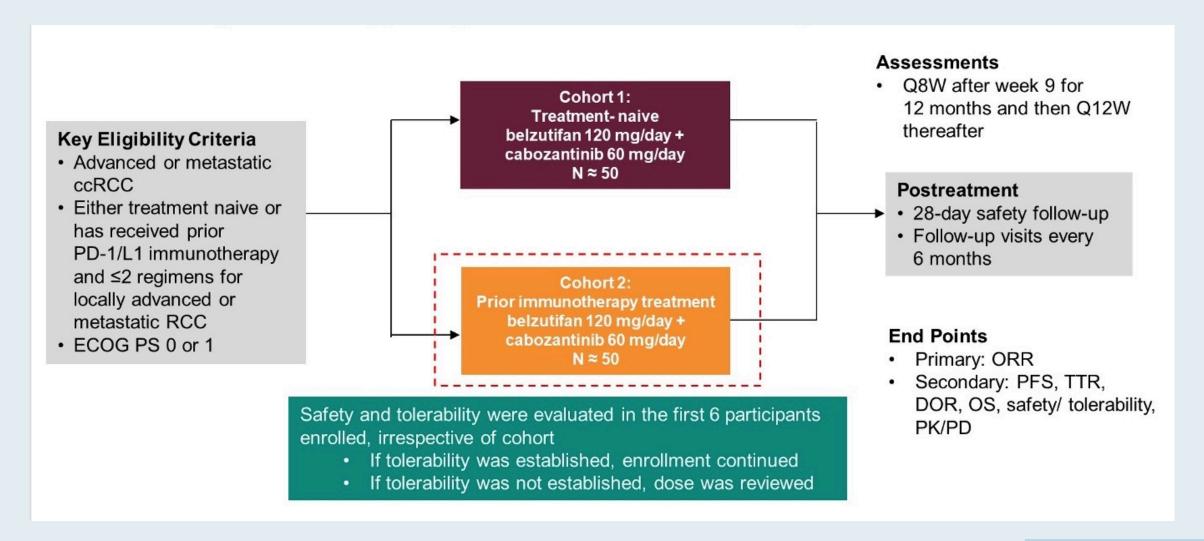
#### Phase 2 Study of the Oral Hypoxia-Inducible Factor 2α Inhibitor Belzutifan (MK-6482) in Combination With Cabozantinib in Patients With Advanced Clear Cell Renal Cell Carcinoma

<u>Toni K. Choueiri</u><sup>1</sup>; Todd M. Bauer<sup>2</sup>; David F. McDermott<sup>3</sup>; Edward Arrowsmith<sup>4</sup>; Ananya Roy<sup>5</sup>; Rodolfo Perini<sup>5</sup>; Donna Vickery<sup>5</sup>; Scott S. Tykodi<sup>6</sup>

<sup>1</sup>Dana-Farber Cancer Institute, Boston, MA, USA; <sup>2</sup>Sarah Cannon Research Institute/Tennessee Oncology, Nashville, TN, USA; <sup>3</sup>Beth Israel Deaconess Medical Center, Boston, MA, USA; <sup>4</sup>Tennessee Oncology, Chattanooga, TN, USA; <sup>5</sup>Merck & Co., Inc., Kenilworth, NJ, USA; <sup>6</sup>University of Washington and Fred Hutchinson Cancer Research Center, Seattle, WA, USA



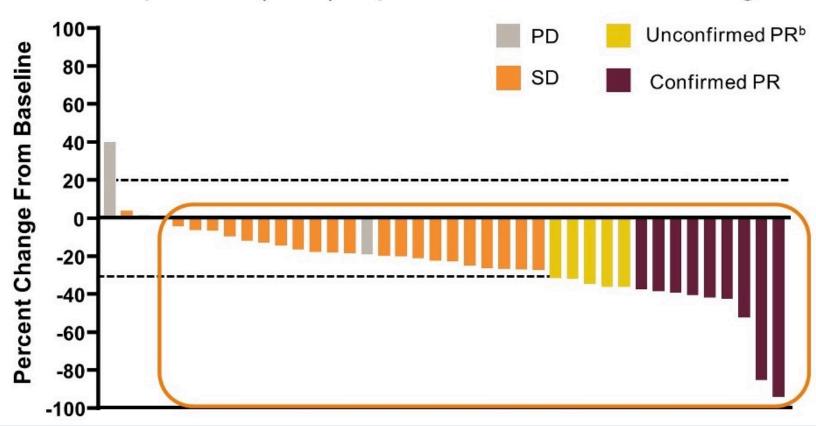
#### **Study Design**





#### **Best Tumor Change from Baseline**

• 36 of 41 patients (88%) experienced a reduction in target lesion sizea





#### **Treatment-Related Adverse Events**

Treatment-Related		Safety Analysis Set N = 52			
AEs in ≥15% of		Any Grade	Gra	de 3	
Patients	Event, n	n (%)	Event, n	n (%)	
Any	742	51 (98)	60	31 (60)	
Anemia	92	40 (77)	8	6 (12)	
Fatigue	67	35 (67)	10	6 (12)	
Hand-foot syndrome	56	28 (54)	1	1 (2)	
Diarrhea	49	23 (44)	2	2 (4)	
Hypertension	52	23 (44)	15	12 (23)	
Nausea	24	18 (35)	1	1 (2)	
ALT increased	48	17 (33)	7	3 (6)	
AST increased	34	17 (33)	2	2 (4)	
Decreased appetite	22	15 (29)	1	1 (2)	
Dysgeusia	19	12 (23)	1	1 (2)	
Headache	12	10 (19)	0	0 (0)	
Hypophosphatemia	18	9 (17)	2	2 (4)	
Stomatitis	10	8 (15)	0	0 (0)	

- There were no grade 4/5 treatment-related AEs
- Of all 742 AEs, 92% were grade 1 or 2 in severity
- Treatment-related hypoxia, considered an on-target AE for belzutifan, occurred in 2 patients (4%) (both were grade 3 AEs)



<sup>&</sup>lt;sup>a</sup>All patients who received ≥1 dose of treatment. Data cutoff: October 15, 2020.

#### **Agenda**

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**MODULE 2: Consensus or Controversy – Clinical Investigator Approaches to Clinical Scenarios** 

**MODULE 3: Renal Cell Carcinoma Journal Club with Dr Stadler** 

- Active surveillance of metastatic RCC: Results from a prospective observational study (MaRCC)
- Optimized management of nivolumab and ipilimumab in advanced RCC: A response-based Phase II study (OMNIVORE)

**MODULE 4: Key Data Sets** 

**MODULE 5: Other Recent Data Sets** 



#### Ann Oncol 2020;31(8):1030-9





#### **ORIGINAL ARTICLE**

Updated efficacy results from the JAVELIN Renal 101 trial: first-line avelumab plus axitinib versus sunitinib in patients with advanced renal cell carcinoma

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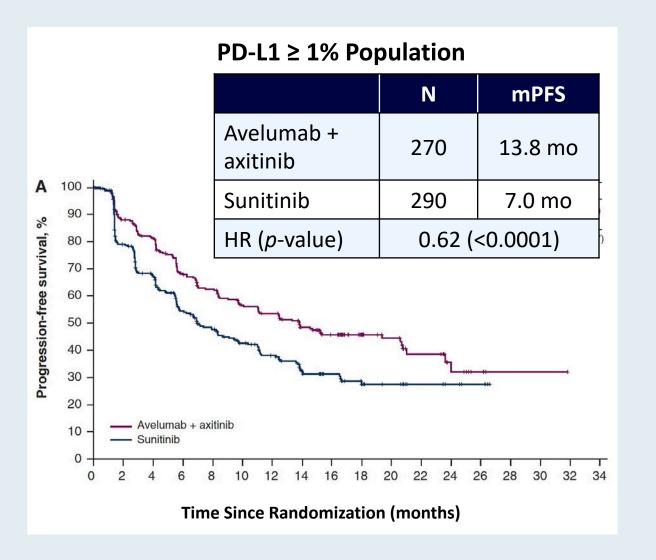


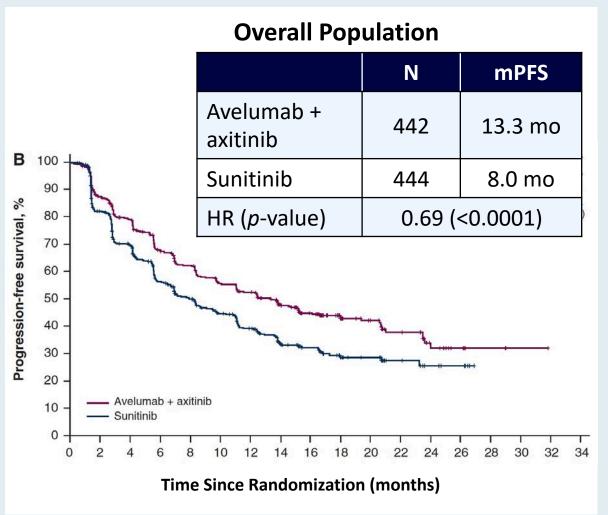
## JAVELIN Renal 101: Overall Response and Best Response Rate in the PD-L1-Positive and Overall Populations

	PD-L1-positive		Overall		
	Avelumab + axitinib (n = 270)	Sunitinib (n = 290)	Avelumab + axitinib (n = 442)	Sunitinib (n = 444)	
Confirmed ORR	55.9%	27.2%	52.5%	27.3%	
CR	5.6%	2.4%	3.8%	2.0%	
PR	50.4%	24.8%	48.6%	25.2%	
Stable disease	27.0%	41.4%	28.3%	43.7%	
Progressive disease	11.5%	22.4%	12.4%	19.4%	
Ongoing response	55.6%	53.2%	54.3%	50.4%	



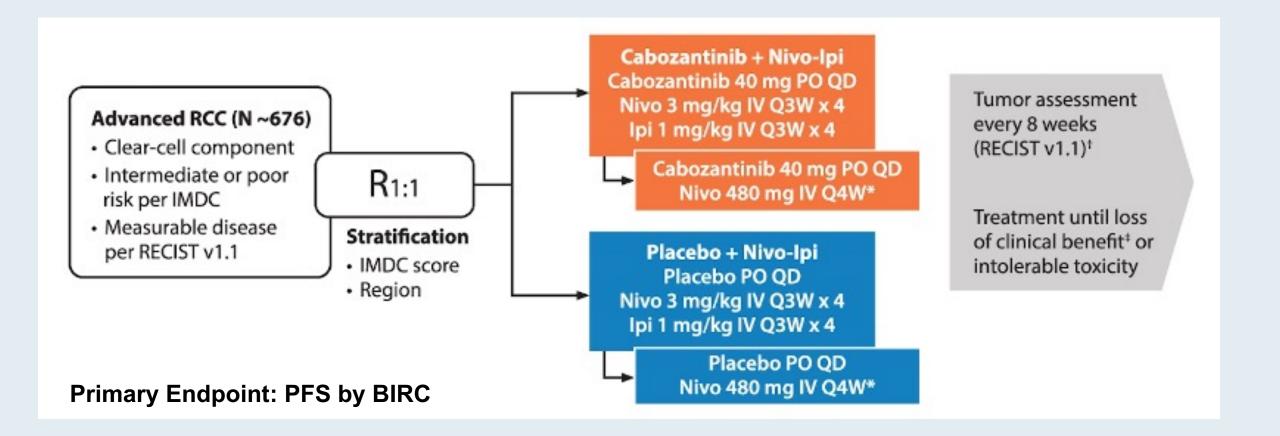
#### **JAVELIN Renal 101: PFS in the PD-L1+ and Overall Populations**







#### **COSMIC-313 Phase III Schema**



https://www.urotoday.com/conference-highlights/asco-2020/asco-2020-kidney-cancer/121877-asco-2020-cosmic-313-phase-iii-study-of-cabozantinib-in-combination-with-nivolumab-and-ipilimumab-in-patients-with-previously-untreated-advanced-renal-cell-carcinoma-of-intermediate-or-poor-risk.html



## Sequencing of Therapy for Patients with Relapsed/Refractory (R/R) RCC; Novel Approaches Under Investigation



# Salvage Ipilimumab and Nivolumab in Patients With Metastatic Renal Cell Carcinoma After Prior Immune Checkpoint Inhibitors

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J Clin Oncol 2020;38:3088-94.



#### Salvage Ipilimumab/Nivolumab for mRCC After Prior ICI Therapy

Variable	No. (%)
No. of prior lines of systemic therapy	
1	9 (20)
2	12 (27)
3	8 (18)
4	6 (13)
> 4	10 (22)
Prior VEGF receptor inhibitor <sup>a</sup>	27 (60)
Prior immunotherapy	
Anti–PD-1 <sup>b</sup>	34 (76)
Anti–PD-L1 <sup>b</sup>	11 (24)
IL-2 <sup>c</sup>	14 (31)
Best response to prior ICI	
PR	24 (53)
SD	12 (27)
PD	9 (20)

	BOR to Salvage Ipilimumab	T11 3/2/3
No. (%)	and Nivolumab	No. (%)
24 (53)	PR	4 (17)
	SD	2 (8)
	PD	17 (71)
	NE	1 (4)
12 (27)	PR	3 (25)
	SD	5 (42)
	PD	4 (33)
9 (20)	PR	2 (22)
	PD	7 (78)
	12 (27)	No. (%)       and Nivolumab         24 (53)       PR         SD       PD         NE       NE         12 (27)       PR         SD       PD         9 (20)       PR

Abbreviations: BOR, best objective response; ICI, immune checkpoint inhibitor; NE, not evaluable; PD, progressive disease; PR, partial response; SD, stable disease.



# A Pooled Analysis of the Efficacy and Safety of Cabozantinib Post Immunotherapy in Patients with Advanced Renal Cell Carcinoma

Oya M et al.

ASCO 2020; Abstract 5089.



#### **Efficacy of Cabozantinib with or without Prior Immunotherapy**

	Prior IO (N = 33)	No Prior IO (N = 332)
Objective response rate	21.2%	17.2%
Clinical benefit rate	75.8%	83.7%
Median PFS	Not reached	7.4 mo
6-months PFS	65.5%	58.3%
Median PFS	19.5 mo	21.9 mo
6-months OS	90.8%	90.6%



Phase II Trial of Lenvatinib (LEN) plus Pembrolizumab (PEMBRO) for Disease Progression After PD-1/PD-L1 Immune Checkpoint Inhibitor (ICI) in Metastatic Clear Cell Renal Cell Carcinoma (mccRCC)

Lee C-H et al.

ASCO 2020; Abstract 5008.



# Efficacy of Lenvatinib/Pembrolizumab in Patients Previously Treated with Immunotherapy

	Anti-PD-1/PD-L1 (N = 104)	Anti-PD-1/PD-L1 and anti-VEGF (n = 68)	Nivolumab + ipilimumab (n = 38)
ORR	55%	59%	47%
Median DOR	12 mo	9 mo	Not reached
Median PFS (irRECIST)	11.7 mo	Not reported	Not reported
OS at 12 months	77%	Not reported	Not reported



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

Monday, June 7, 2021 5:00 PM - 6:00 PM ET

**Faculty** 

Kristen K Ciombor, MD, MSCI

**Moderator Neil Love, MD** 



#### Thank you for joining us!

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

