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

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Dr Love — Disclosures

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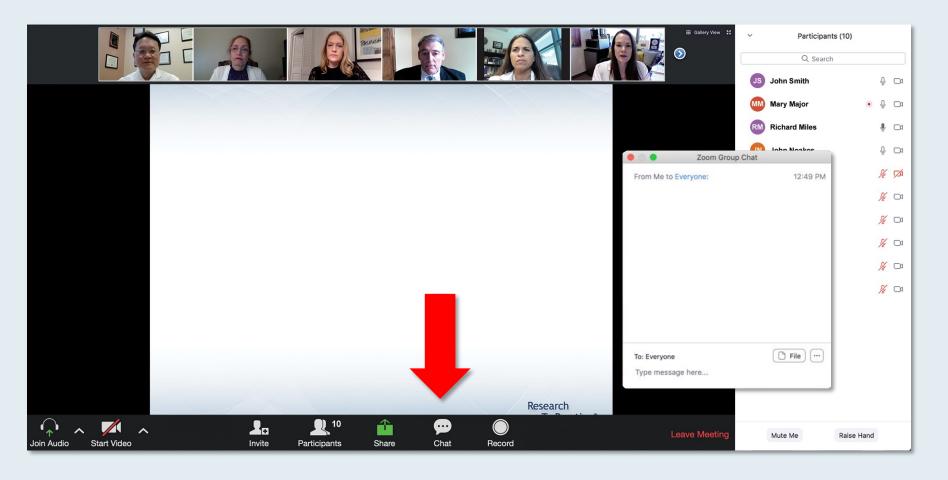
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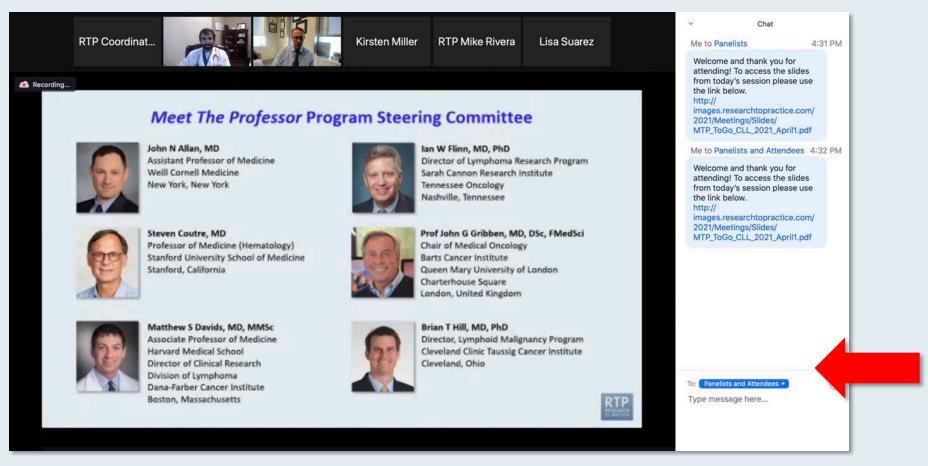


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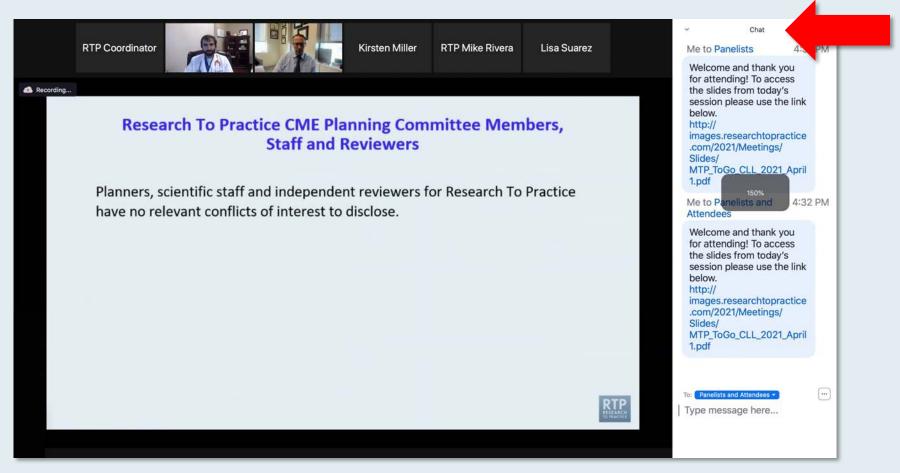


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ONCOLOGY TODAY

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 Clinical Management of Hodgkin and Non-Hodgkin Lymphomas

Thursday, September 16, 2021 5:00 PM - 6:00 PM ET

Faculty

Loretta J Nastoupil, MD



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

Friday, September 17, 2021 12:00 PM – 1:00 PM ET

Faculty

Philip A Philip, MD, PhD, FRCP



Meet The Professor

Optimizing the Selection and Sequencing of Therapy for Patients with Urothelial Bladder Carcinoma

Tuesday, September 21, 2021 5:00 PM - 6:00 PM ET

Faculty
Jonathan E Rosenberg, MD



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



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



Thank you for joining us!

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



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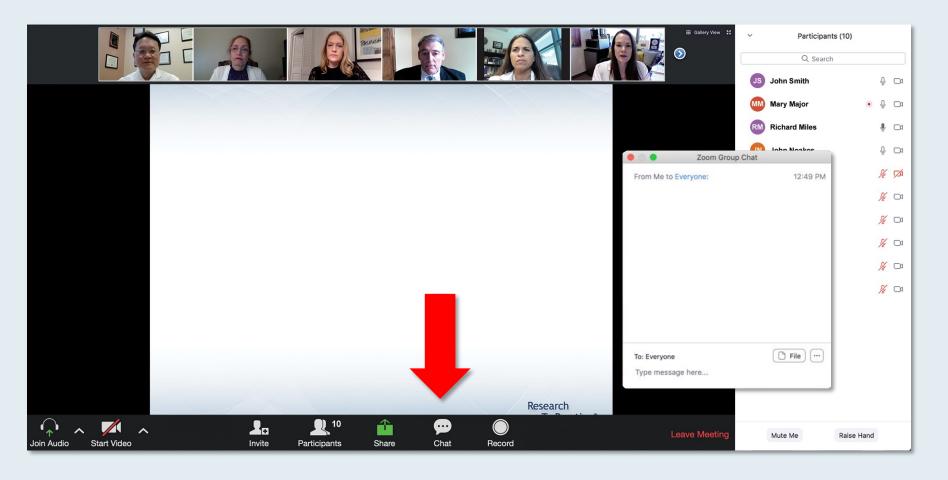
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Meet The Professor with Dr Agarwal

MODULE 1: Case Presentations

- Dr Plimack: A 61-year-old woman with metastatic clear cell RCC
- Dr Hammers: A 59-year-old man with intermediate/poor-risk ccRCC with metastases to the bone and lung
- Prof Powles: A 69-year-old man with metastatic sarcomatoid RCC to the liver
- Dr Hammers: A man in his 60s with recurrent RCC who is s/p renal transplant
- Dr Hammers: A man in his 70s with metastatic RCC and a long-standing history of Crohn's disease
- Dr Jonasch: A 30-year-old man with von Hippel-Lindau disease

MODULE 2: Journal Club with Dr Agarwal

MODULE 3: Beyond the Guidelines

MODULE 4: Key Data Sets



At what point in your oncology career were you in 2016?

- 1. Clinical practice for 10 years or more
- 2. Clinical practice for 5 to 10 years
- 3. Clinical practice for less than 5 years
- 4. Residency or fellowship
- 5. Medical school
- 6. College
- 7. Other



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Case Presentation – Dr Plimack: A 61-year-old woman with metastatic clear cell RCC



Dr Elizabeth Plimack

• Presented with a large, painful RCC primary and lung and liver metastases

Question

What would you do for this patient?



Case Presentation – Dr Plimack: A 61-year-old woman with metastatic clear cell RCC (continued)



Dr Elizabeth Plimack

- Presented with a large, painful RCC primary and lung and liver metastases
- Right radical cytoreductive nephrectomy with adrenalectomy, cholecystectomy and partial hepatectomy
- Axitinib/pembrolizumab, with rapid disease progression

Question

What would you choose as her next line of therapy?



Case Presentation – Dr Plimack: A 61-year-old woman with metastatic clear cell RCC (continued)



Dr Elizabeth Plimack

- Presented with a large, painful RCC primary and lung and liver metastases
- Right radical cytoreductive nephrectomy with adrenalectomy, cholecystectomy and partial hepatectomy
- Axitinib/pembrolizumab, with rapid disease progression
- Dose-reduced cabozantinib (40 mg daily)
 - After 7 months, developed cutaneous toxicity, HFS



Case Presentation – Dr Plimack: A 61-year-old woman with metastatic clear cell RCC (continued)



Dr Elizabeth Plimack

Cabozantinib-associated cutaneous toxicity













Case Presentation – Dr Plimack: A 61-year-old woman with metastatic clear cell RCC (continued)



Dr Elizabeth Plimack

- Presented with a large, painful RCC primary and lung and liver metastases
- Right radical cytoreductive nephrectomy with adrenalectomy, cholecystectomy and partial hepatectomy
- Axitinib/pembrolizumab, with rapid disease progression
- Dose-reduced cabozantinib (40 mg daily)
 - After 7 months, developed cutaneous toxicity, HFS
 - Held treatment until fully healed, then re-challenged at a lower dose



Case Presentation – Dr Hammers: A 59-year-old man with intermediate/poor-risk ccRCC with metastases to the bone and lung



Dr Hans Hammers

- Patient initially diagnosed with stage III ccRCC, Grade 4, non-sarcomatoid
- Within the year, he presents with metastatic recurrence in the bone and lung
 - Pelvic osseous metastasis, 2-cm
 - Multiple lung metastases, the largest measuring 1.4-cm
- PMH: controlled HTN, controlled diabetes

Question

What would you recommend as first-line therapy for this patient?



Case Presentation – Dr Hammers: A 59-year-old man with intermediate/poor-risk ccRCC with metastases to the bone and lung (continued)

- Patient initially diagnosed with stage III ccRCC, Grade 4, non-sarcomatoid
- Within the year, he presents with metastatic recurrence in the bone and lung
 - Pelvic osseous metastasis, 2-cm
 - Multiple lung metastases, the largest measuring 1.4-cm
- PMH: controlled HTN, controlled diabetes
- Nivolumab/ipilimumab, with a major response
 - Grade 3 diarrhea after third dose of nivolumab
 - Significant microscopic inflammatory changes on colonoscopy

Question

What would you do at this time?



Dr Hans Hammers



Case Presentation – Dr Hammers: A 59-year-old man with intermediate/poor-risk ccRCC with metastases to the bone and lung (continued)



Dr Hans Hammers

- PMH: Controlled hypertension, DM
- Stage III, Grade 4 clear cell RCC, with no sarcomatoid or rhabdoid component
- One year later, 2-cm pelvic lytic osseous metastasis, multiple lung metastases
- Nivolumab/ipilimumab, with a major response
 - Grade 3 diarrhea after third dose of nivolumab
 - Significant microscopic inflammatory changes on colonoscopy
- Initiated steroids, dropped the last dose of the combination, continued nivolumab
- One year later, progression in one lung nodule while on nivolumab

Question

 What would you do next? With limited disease progression, would you consolidate with either surgery or stereotactic radiation therapy?



Case Presentation – Prof Powles: A 69-year-old man with metastatic sarcomatoid RCC to the liver



Prof Thomas Powles

- PMH: Heavy smoker, airway disease (PS 1)
- Lung biopsy: Sarcomatoid mass

Question

• For sarcomatoid kidney cancer we know immune therapy has a really important role, but is this another group of patients that should get ipilimumab/nivolumab or actually pembrolizumab/cabozantinib/nivolumab?



Case Presentation – Prof Powles: A 69-year-old man with metastatic sarcomatoid RCC to the liver (continued)



Prof Thomas Powles

- PMH: Heavy smoker, airway disease (PS 1)
- Lung biopsy: Sarcomatoid mass
- CT scan: liver metastases and large renal mass
- Cabozantinib and nivolumab

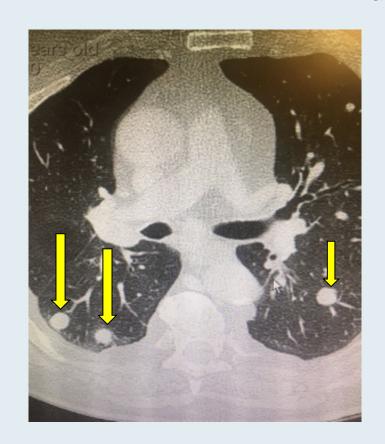


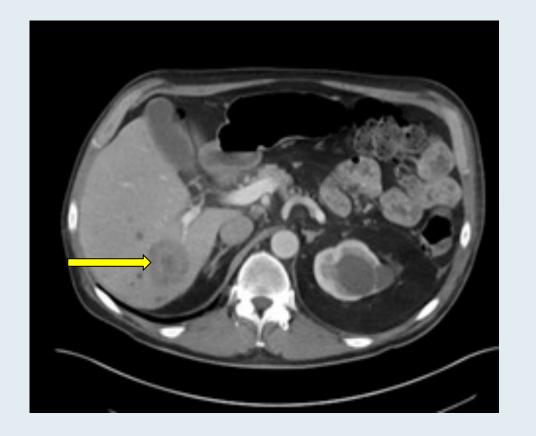
Case Presentation – Prof Powles: A 69-year-old man with metastatic sarcomatoid RCC to the liver (continued)



Prof Thomas Powles

Baseline CT scans







Case Presentation – Dr Hammers: A man in his 60s with recurrent RCC who is s/p renal transplant



Dr Hans Hammers

- Recipient of kidney from his daughter
- Immunosuppressive therapy with cyclosporine, prednisone and mycophenolate mofetil
- He has done well with renal transplant
- Recurrent disease involving the lung as well as a lesion in the abdomen close to the bowel

Question

What would you recommend for this patient on immunosuppressive therapy?



Case Presentation – Dr Hammers: A man in his 60s with recurrent RCC who is s/p renal transplant (continued)



Dr Hans Hammers

- Recipient of kidney from his daughter
- Immunosuppressive therapy with cyclosporine, prednisone and mycophenolate mofetil
- He has done well with renal transplant
- Recurrent disease involving the lung as well as a lesion in the abdomen close to the bowel
- Patient wanted to retain graft as long as possible
- Treated with various lines of TKI therapies and lenvatinib/everolimus
- Nivolumab → no response, lost graft within the month
- Patient succumbed to progressive disease



Case Presentation – Dr Hammers: A man in his 70s with metastatic RCC and a long-standing history of Crohn's disease



Dr Hans Hammers

- PMH: Crohn's disease that was well-controlled with a TNF agonist, HLA-B27 spondylitis
- Recurrent disease in lungs and abdomen, suboptimal PS
- TNF agonist held for several weeks
- Nivolumab/ipilimumab → beautiful response in lung lesions, lymph nodes, and abdominal implant
- Significant flare of spondylitis
- TNF agonist restarted with steroids
- Response has been maintained for over a year



Case Presentation – Dr Jonasch: A 30-year-old man with von Hippel-Lindau disease

Dr Eric Jonasch

- PMH: hemangioblastoma, small renal cell mass
- Treated his father for VHL disease; Patient began surveillance in his early 20s

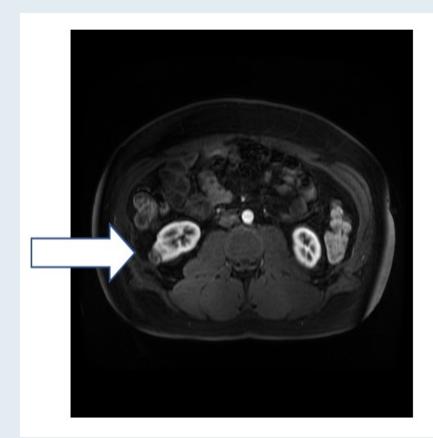


Case Presentation – Dr Jonasch: A 30-year-old man with von Hippel-Lindau disease (continued)

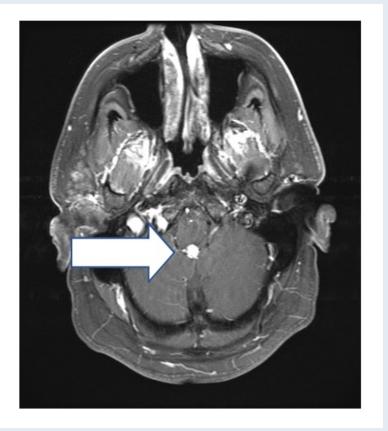


Dr Eric Jonasch

Small renal mass



Hemangioblastoma





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MODULE 2: Journal Club with Dr Agarwal

MODULE 3: Beyond the Guidelines

MODULE 4: Key Data Sets



Journal Club with Dr Agarwal - Part 1

- Duarte C et al. Treatment outcomes in renal cell carcinoma patients with metastases to the pancreas and other sites. ASCO 2021; Abstract 4557.
- Bakouny Z et al al. Cytoreductive nephrectomy (CN) for metastatic renal cell carcinoma (mRCC) treated with immune checkpoint inhibitors (ICI) or targeted therapy (TT): A propensity score-based analysis. Genitourinary Cancers Symposium 2020; Abstract 608.
- Ravi P et al. Evaluation of the safety and efficacy of immunotherapy rechallenge in patients with renal cell carcinoma. *JAMA Oncol* 2020;6(10):1606-10.
- Ravi et al. Use of immune checkpoint inhibitors (ICIs) after prior ICI in metastatic renal cell carcinoma (mRCC):
 Results from a multicenter collaboration. ASCO 2020; Abstract 5077.
- Dudani S et al. **Application of IMDC criteria across first-line (1L) and second-line (2L) therapies in metastatic renal-cell carcinoma (mRCC): New and updated benchmarks of clinical outcomes.** ASCO 2020; Abstract 5063.
- Schmidt AL et al. **The very favorable metastatic renal cell carcinoma (mRCC) risk group.** Genitourinary Cancers Symposium 2021; Abstract 339.



Journal Club with Dr Agarwal – Part 2

- Zengin ZB et al. Illustration of temporal evolution in patients with metastatic renal cell carcinoma (mRCC) using both circulating tumor DNA (ctDNA) and tissue-based genomic data. Genitourinary Cancers Symposium 2021; Abstract 347.
- Zengin ZB et al. Complementary role of circulating tumor DNA assessment and tissue genomic profiling in metastatic renal cell carcinoma. Clin Cancer Res 2021;27(17):4807-13.
- Coletta AM et al. The impact of a hospital-based exercise oncology program on cancer treatment-related side
 effects among rural cancer survivors. Support Care Cancer 2021;29(8):4663-72.
- Cowman SJ et al. Macrophage HIF-1 α is an independent prognostic indicator in kidney cancer. Clin Cancer Res 2020;26(18):4970-82.
- Desai A et al. **COVID-19 vaccine guidance for patients with cancer participating in oncology clinical trials.** *Nat Rev Clin Oncol* 2021;18(5):313-9.
- Hutson TE et al. A single-arm, multicenter, phase 2 study of lenvatinib plus everolimus in patients with advanced non-clear cell renal cell carcinoma. *Eur Urol* 2021;80(2):162-70.
- Li H et al. Combination therapy with avelumab (Ave) and cabozantinib (Cabo) in patients (pts) with newly diagnosed metastatic clear cell renal cell carcinoma (mccRCC). Genitourinary Cancers Symposium 2021; Abstract 334.

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Optimizing Front-Line Decision-Making for Advanced RCC

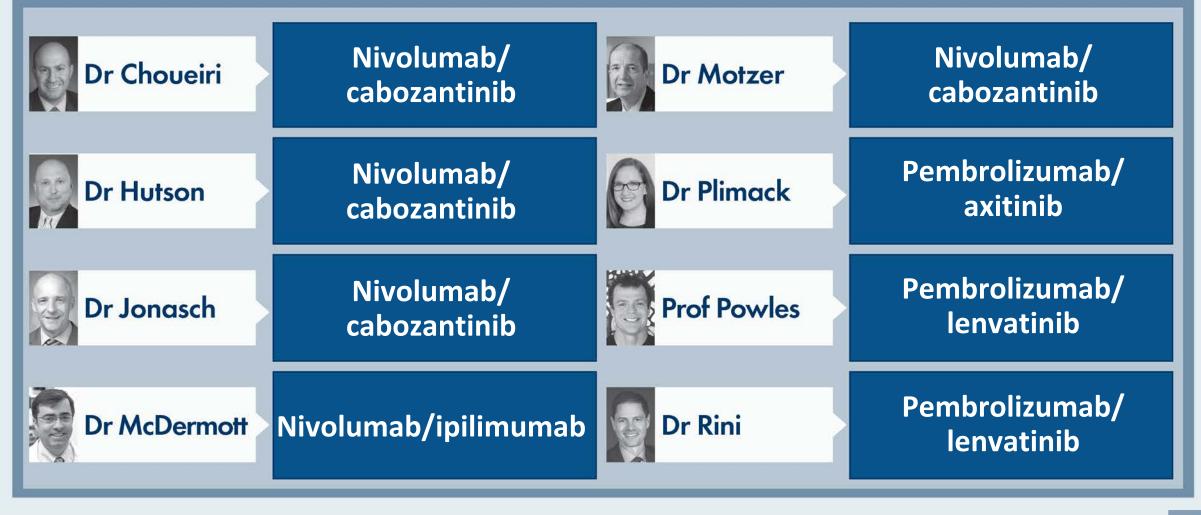


Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a 65-year-old patient with a history of nephrectomy for clear cell renal cell carcinoma (RCC) who on routine follow-up 3 years later is found to have asymptomatic bone metastases (PS 0)?

- 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)?



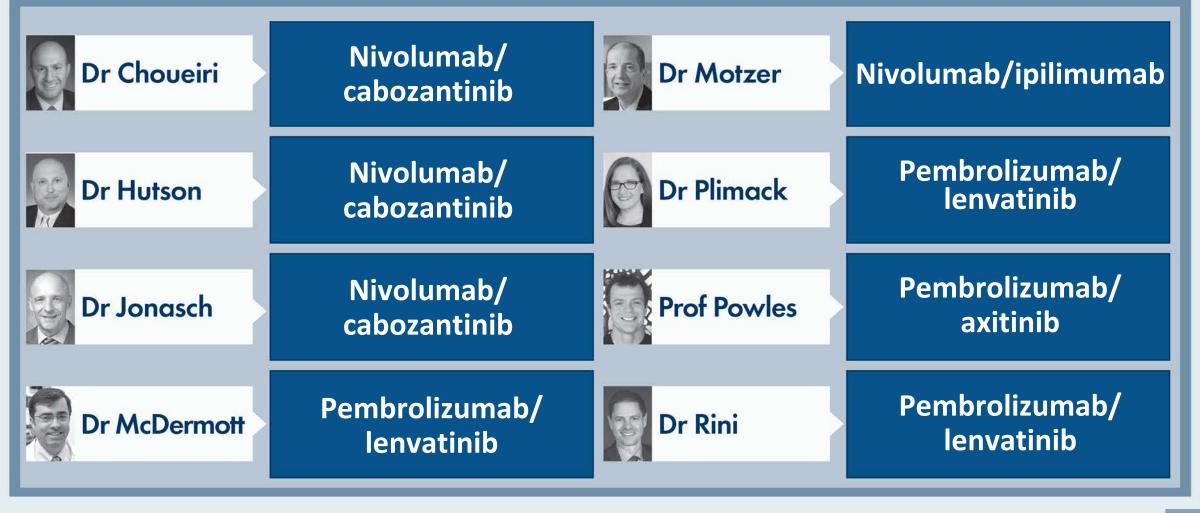


Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a <u>65-year-old</u> patient who presents with clear cell RCC with multiple painful bone metastases and hemoglobin (Hb) of 11.4 g/dL (PS 1)?

- 1. Nivolumab/ipilimumab
- 2. Avelumab/axitinib
- 3. Pembrolizumab/axitinib
- 4. Pembrolizumab/lenvatinib
- 5. Nivolumab/cabozantinib
- 6. 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 who presents with clear cell RCC with multiple painful bone metastases and hemoglobin (Hb) of 11.4 g/dL (PS = 1)?





In general, which first-line therapy would you recommend for a 65-year-old patient who presents with metastatic clear cell RCC and for whom the use of immune checkpoint inhibitors is contraindicated?

- 1. Sunitinib
- 2. Pazopanib
- 3. Cabozantinib
- 4. Axitinib
- 5. Other



In general, which first-line therapy would you recommend for a 65-year-old patient who presents with metastatic clear cell RCC and for whom the use of immune checkpoint inhibitors is contraindicated?





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





Sequencing of Therapy for Patients with Relapsed/Refractory RCC; Novel Approaches under Investigation



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 <u>ipilimumab/nivolumab</u> and experiences disease progression after 12 months?

- 1. Sunitinib
- 2. Pazopanib
- 3. Cabozantinib
- 4. Axitinib
- 5. Avelumab/axitinib
- 6. Pembrolizumab/axitinib
- 7. Nivolumab/cabozantinib
- 8. Other



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?



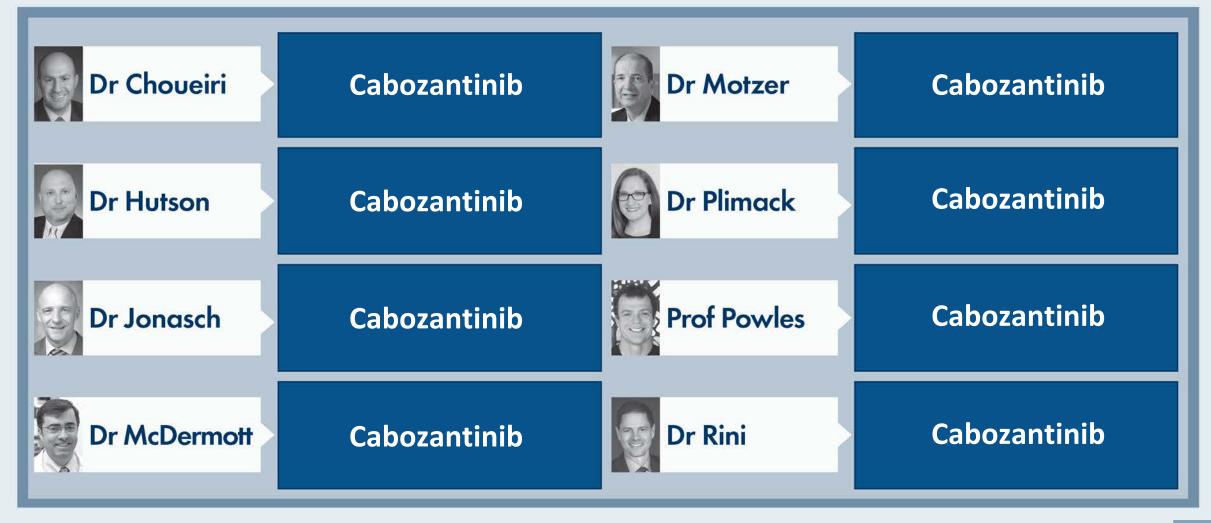


In general, what would you recommend as second-line treatment for a 65-year-old patient (PS 0) with metastatic clear-cell RCC who receives first-line pembrolizumab/axitinib and experiences disease progression after 12 months?

- 1. Sunitinib
- 2. Pazopanib
- 3. Cabozantinib
- 4. Sorafenib
- 5. Lenvatinib/everolimus
- 6. Nivolumab/ipilimumab
- 7. Nivolumab/cabozantinib
- 8. Other

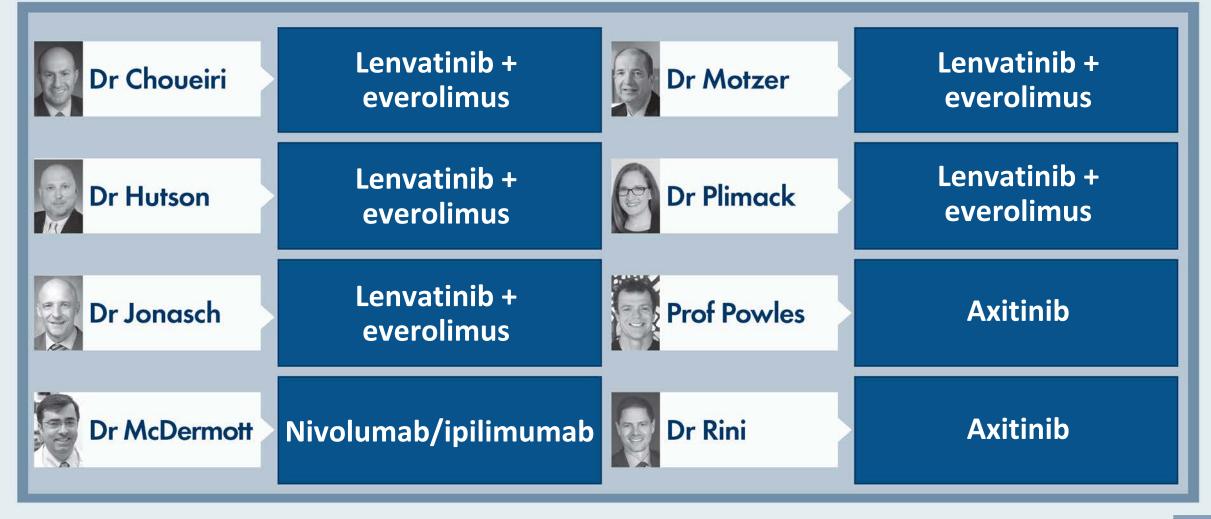


In general, what would you recommend as second-line treatment for a 65-year-old patient (PS 0) with metastatic clear cell RCC who receives first-line pembrolizumab/axitinib and experiences disease progression after 12 months?





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?





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- Dr Jonasch: A 30-year-old man with von Hippel-Lindau disease

MODULE 2: Journal Club with Dr Agarwal

MODULE 3: Beyond the Guidelines

MODULE 4: Key Data Sets



Open access



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, Mauricio Burotto, David McDermott, ^{4,5} Elizabeth R Plimack,⁶ Philippe Barthélémy,^{7,8} Camillo Porta ⁽¹⁾, 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,²² M Brent McHenry,²³ Robert J Motzer²⁴

ESMO Open 2020;5(6):e001079.

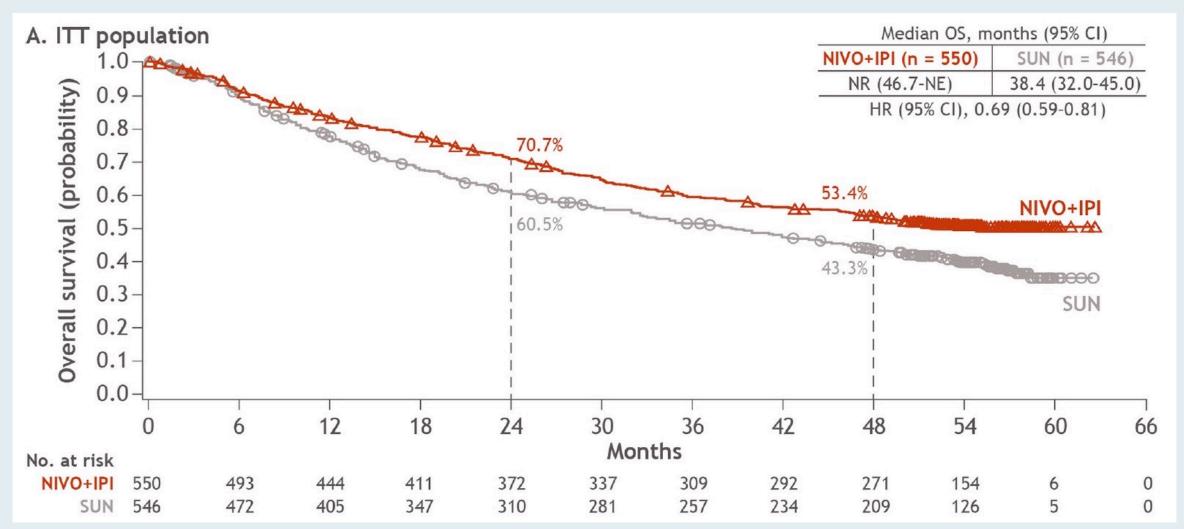


CheckMate 214: Overall Response and Best Response Rate per IRRC at 4 Years Minimum Follow-Up in ITT Population

	Intent-to-Treat		Intermediate/Poor Risk		Favorable Risk	
	Nivo + Ipi (n = 550)	Sunitinib (n = 546)	Nivo + Ipi (n = 425)	Sunitinib (n = 422)	Nivo + Ipi (n = 125)	Sunitinib (n = 124)
Confirmed ORR	39.1%	32.4%	41.9%	26.8%	29.6%	51.6%
CR	10.7%	2.6%	10.4%	1.4%	12.0%	6.5%
PR	28.4%	29.9%	31.5%	25.4%	17.6%	45.2%
Stable disease	36.0%	42.1%	30.8%	44.3%	53.6%	34.7%
Progressive disease	17.6%	14.1%	19.3%	16.8%	12.0%	4.8%
Ongoing response	65.1%	52.0%	65.2%	49.6%	64.9%	56.3%

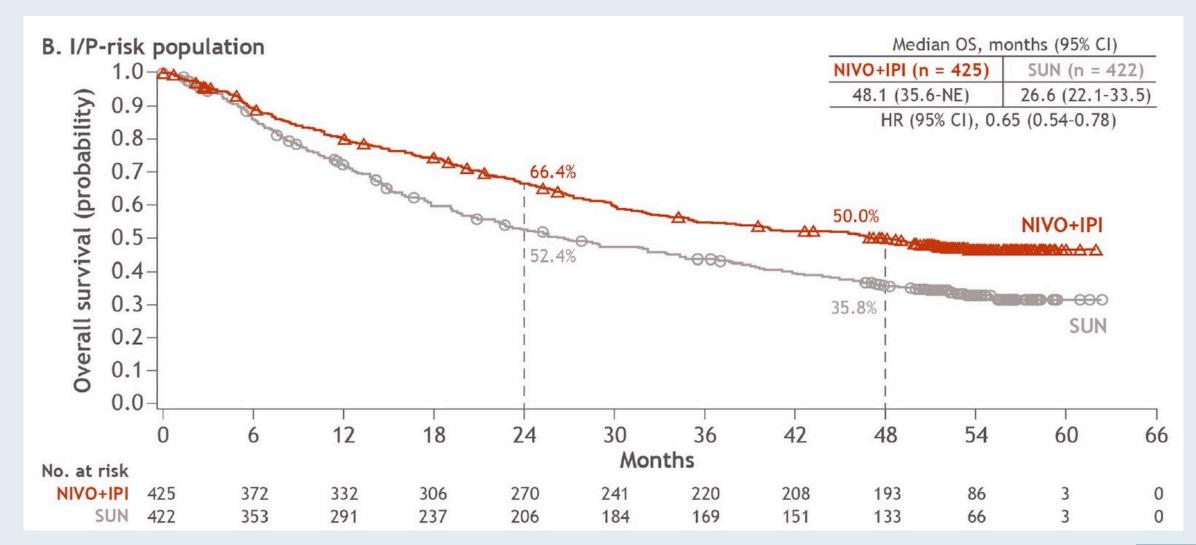


CheckMate 214: Overall Survival (ITT)





CheckMate 214: Overall Survival (Intermediate/Poor Risk)





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

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

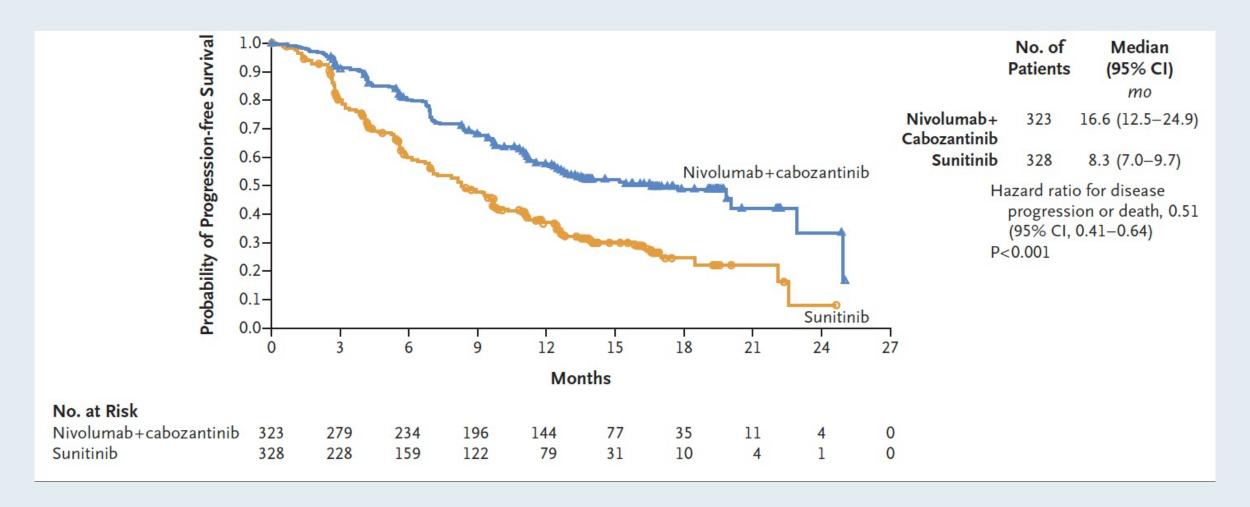
Nivolumab plus Cabozantinib versus Sunitinib for Advanced Renal-Cell Carcinoma

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*



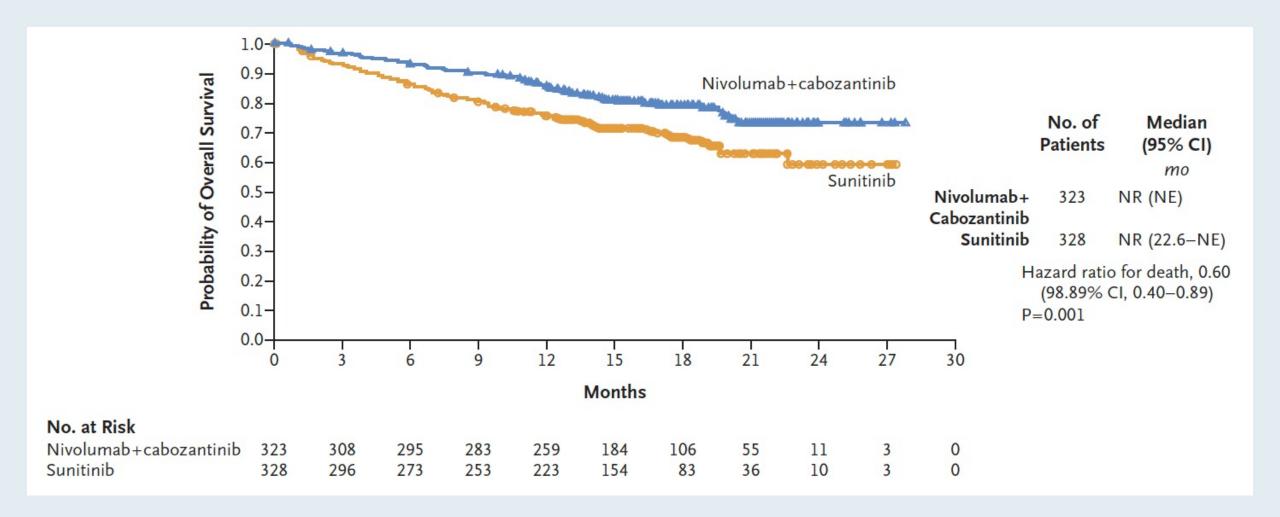


CheckMate 9ER: Progression-Free Survival





CheckMate 9ER: Overall Survival





ABSTRACT 4509: NIVOLUMAB PLUS CABOZANTINIB IN PATIENTS WITH NON-CLEAR CELL RENAL CELL CARCINOMA: RESULTS OF A PHASE 2 TRIAL

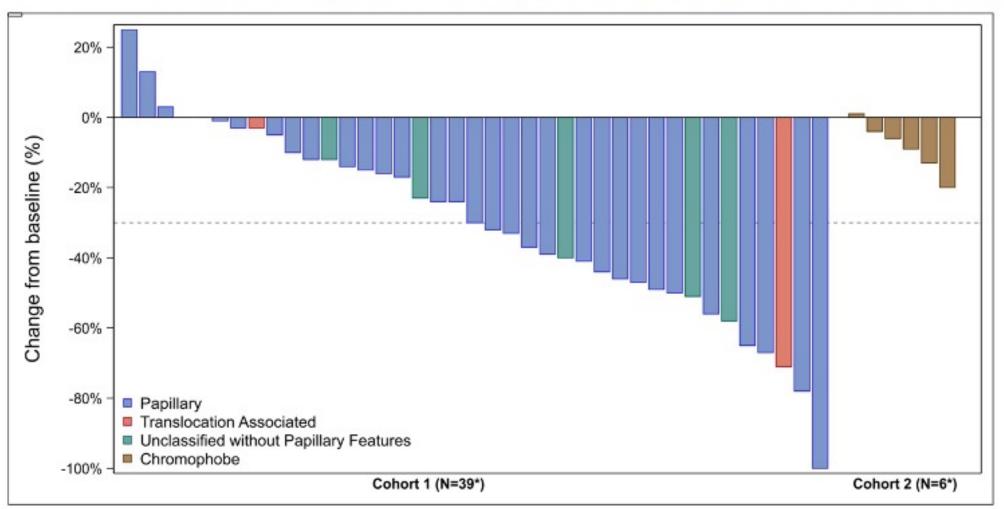
Chung-Han Lee, Martin H Voss, Maria Isabel Carlo, Ying-Bei Chen, Ed Reznik, Andrea Knezevic, Robert A Lefkowitz, Natalie Shapnik, Diana Tassone, Chloe Dadoun, Mark Zucker, Neil J. Shah, Colette Ngozi Owens, Deaglan Joseph McHugh, David Henry Aggen, Andrew Leonard Laccetti, Ritesh Kotecha, Darren R. Feldman, Robert J. Motzer June 6, 2021



Corresponding Author Contact: Dr. Chung-Han Lee leec4@mskcc.org



Maximum Change in Target Lesions by Histology





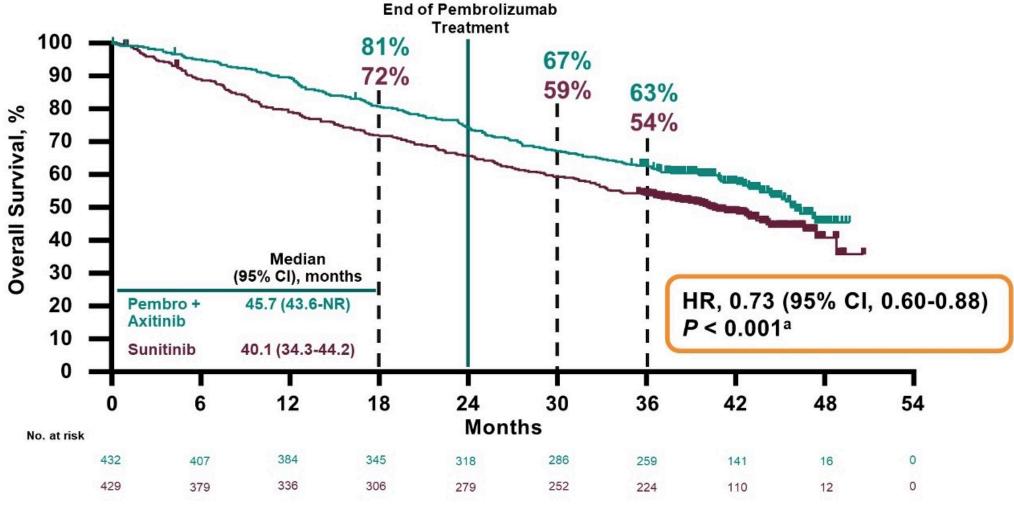
Pembrolizumab Plus Axitinib Versus Sunitinib as First-Line Therapy for Advanced Clear Cell Renal Cell Carcinoma: Results From 42-Month Follow-Up of KEYNOTE-426

- B. I. Rini¹; E. R. Plimack²; V. Stus³; T. Waddell⁴; R. Gafanov⁵; F. Pouliot⁶; D. Nosov⁷;
- B. Melichar⁸; D. Soulieres⁹; D. Borchiellini¹⁰; I. Vynnychenko¹¹; R. S. McDermott¹²;
- S. J. Azevedo¹³; S. Tamada¹⁴; A. Kryzhanivska¹⁵; C. Li¹⁶; J. E. Burgents¹⁶;
- L. R. Molife¹⁷; J. Bedke¹⁸; T. Powles¹⁹

¹Vanderbilt-Ingram Cancer Center, Nashville, TN, USA; ²Fox Chase Cancer Center, Philadelphia, PA, USA; ³Dnipropetrovsk Medical Academy of Ministry of Health of Ukraine, Dnipro, Ukraine; ⁴The Christie NHS Foundation Trust, Manchester, United Kingdom; ⁵Russian Scientific Center of Roentgenoradiology, Moscow, Russia; ⁵CHU of Québec and Laval University, Québec City, QC, Canada; ¹Central Clinical Hospital With Outpatient Clinic, Moscow, Russia; [®]Palacky University Medical School and Teaching Hospital, Olomouc, Czech Republic; [®]Centre Hospitalier de l'Universitaire de Montréal, Montréal, QC, Canada; ¹¹Centre Antoine Lacassagne, Université Côte d'Azur, Nice, France; ¹¹Sumy State University, Sumy Regional Oncology Center, Sumy, Ukraine; ¹²Adelaide and Meath Hospital and University College Dublin, Dublin, Ireland; ¹³Hospital de Clínicas de Porto Alegre, Porto Alegre, Brazil; ¹⁴Osaka City University Hospital, Osaka, Japan; ¹⁵Ivano-Frankivsk National Medical University, Ivano-Frankivsk, Ukraine; ¹®Merck & Co., Inc., Kenilworth, NJ, USA; ¹¹MSD UK, London, United Kingdom; ¹®Eberhard Karls Universität Tübingen, Tübingen, Germany; ¹®Barts Health NHS Trust and the Royal Free NHS Foundation Trust, Barts Cancer Institute, and Queen Mary University of London, London, United Kingdom



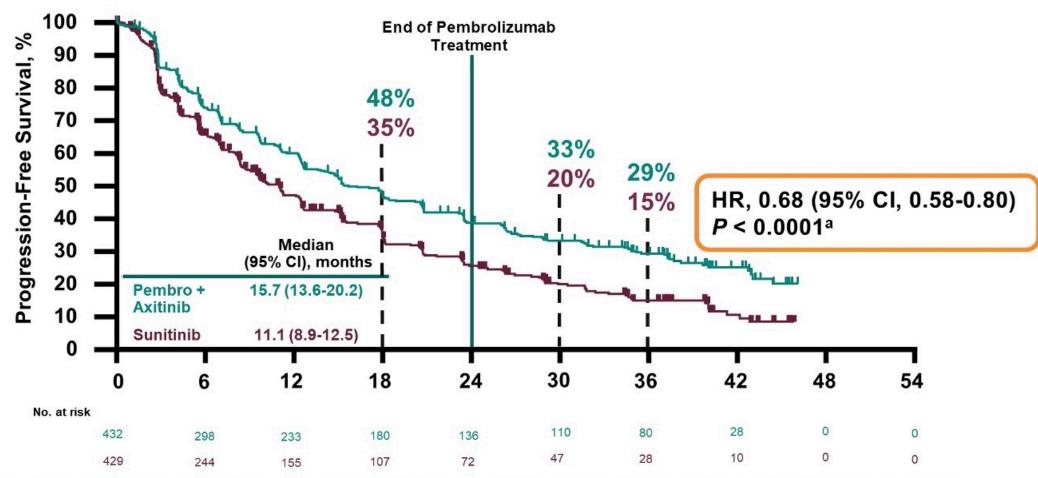
OS in the ITT Population



^aBecause superiority of pembrolizumab + axitinib was shown at the first interim analysis, no alpha was allocated to OS; only nominal P values are reported. Data cutoff: January 11, 2021.



PFS in the ITT Population



^aBecause superiority of pembrolizumab + axitinib was shown at the first interim analysis, no alpha was allocated to PFS; only nominal P values are reported. Data cutoff: January 11, 2021.



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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T. K. Choueiri<sup>1*</sup>, R. J. Motzer<sup>2</sup>, B. I. Rini<sup>3†</sup>, J. Haanen<sup>4</sup>, M. T. Campbell<sup>5</sup>, B. Venugopal<sup>6</sup>, C. Kollmannsberger<sup>7</sup>, G. Gravis-Mescam<sup>8</sup>, M. Uemura<sup>9</sup>, J. L. Lee<sup>10</sup>, M.-O. Grimm<sup>11</sup>, H. Gurney<sup>12</sup>, M. Schmidinger<sup>13</sup>, J. Larkin<sup>14</sup>, M. B. Atkins<sup>15</sup>, S. K. Pal<sup>16</sup>, J. Wang<sup>17</sup>, M. Mariani<sup>18</sup>, S. Krishnaswami<sup>19</sup>, P. Cislo<sup>20</sup>, A. Chudnovsky<sup>21</sup>, C. Fowst<sup>18</sup>, B. Huang<sup>19</sup>, A. di Pietro<sup>22</sup> & L. Albiges<sup>23</sup>
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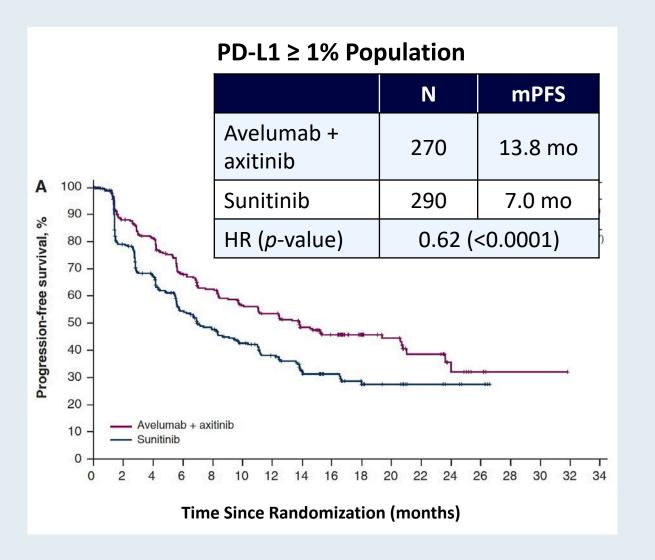


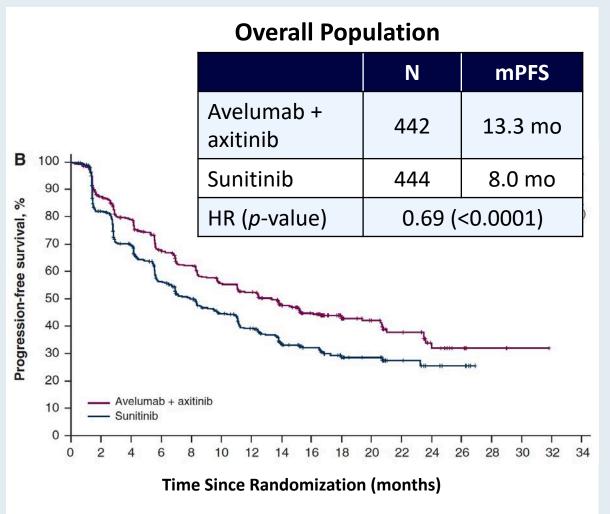
JAVELIN Renal 101: Overall Response and Best Response Rate in the PD-L1-Positive and Overall Populations

	PD-L1-po	sitive	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-Positive and Overall Populations







FDA Approves Lenvatinib with Pembrolizumab for Advanced RCC

Press Release – August 10, 2021

"The Food and Drug Administration approved the combination of lenvatinib plus pembrolizumab for first-line treatment of adult patients with advanced renal cell carcinoma (RCC).

The efficacy of this combination was investigated in CLEAR (Study 307/KEYNOTE-581; NCT02811861), a multicenter, open-label, randomized phase 3 trial in patients with advanced RCC in the first-line setting. Patients were enrolled regardless of PD-L1 tumor expression status.

The recommended dosages for patients with advanced RCC are lenvatinib 20 mg orally once daily with pembrolizumab 200 mg administered as an intravenous infusion over 30 minutes every 3 weeks or 400 mg administered as an intravenous infusion over 30 minutes every 6 weeks up to 2 years, until disease progression or until unacceptable toxicity."



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

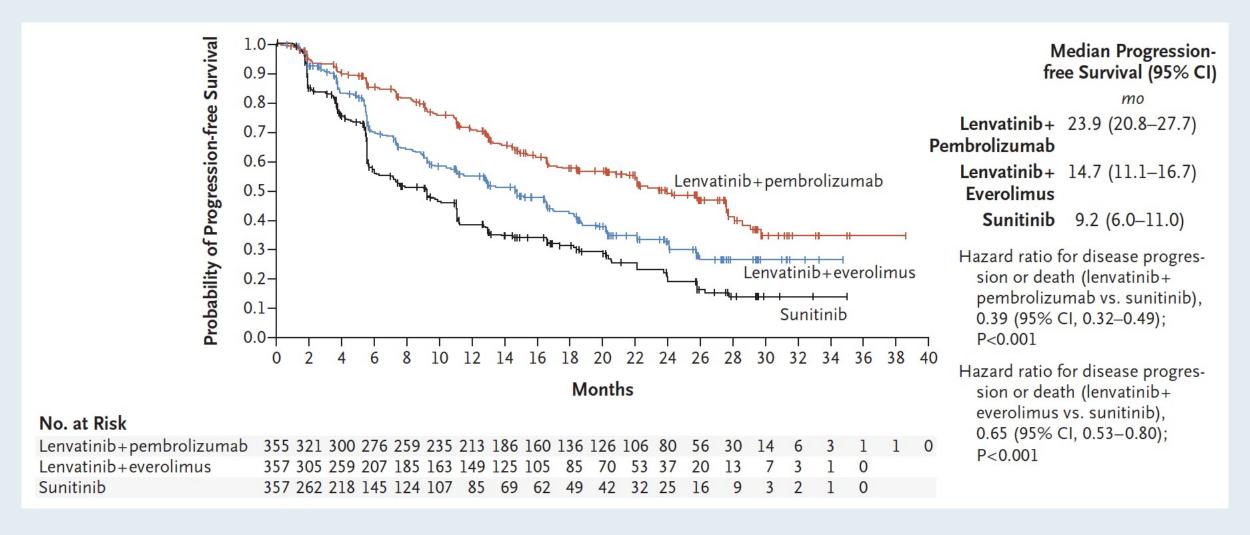
Lenvatinib plus Pembrolizumab or Everolimus for Advanced Renal Cell Carcinoma

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*

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

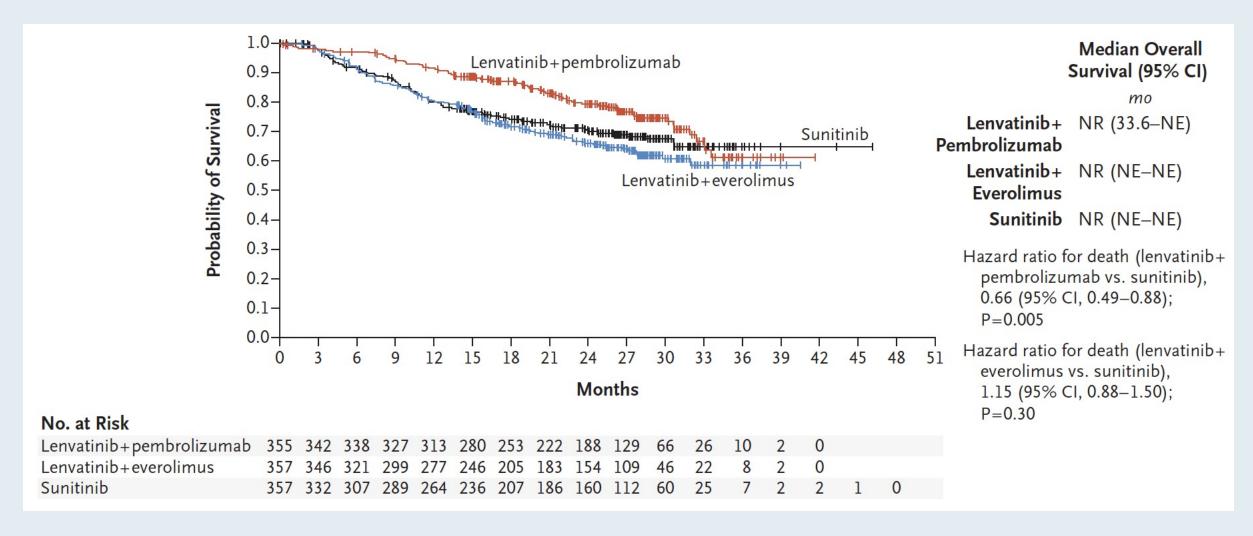


CLEAR: Progression-Free Survival





CLEAR: Overall Survival





ANALYSIS OF THE CLEAR STUDY IN PATIENTS WITH ADVANCED RENAL CELL CARCINOMA: DEPTH OF RESPONSE AND EFFICACY FOR SELECTED SUBGROUPS IN THE LENVATINIB-PLUS-PEMBROLIZUMAB AND SUNITINIB TREATMENT ARMS

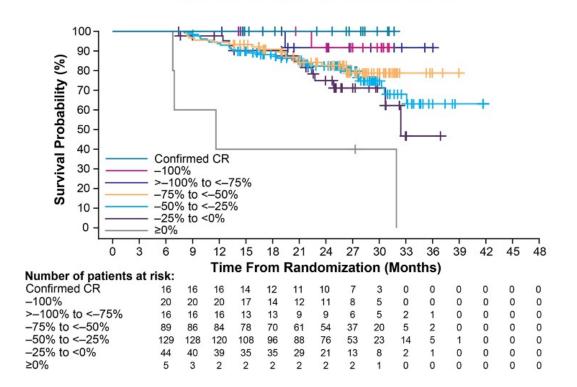
Viktor Grünwald¹, Thomas Powles², Evgeny Kopyltsov³, Vadim Kozlov⁴, Teresa Alonso Gordoa⁵, Masatoshi Eto⁶, Thomas Hutsonժ, Robert Motzer⁶, Eric Winquist⁶, Pablo Maroto¹⁰, Bhumsuk Keam¹¹, Giuseppe Procopio¹², Shirley Wong¹³, Bohuslav Melichar¹⁴, Frederic Rolland¹⁵, Mototsugu Oya¹⁶, Karla Rodriguez-Lopez¹ժ, Kenichi Saito¹⁶, Alan Smith¹⁶, Camillo Porta²⁰

¹University Hospital Essen, Essen, Germany; ²The Royal Free NHS Trust, London, England, UK; ³State Institution of Healthcare "Regional Clinical Oncology Dispensary", Omsk, Russia; ⁴State Budgetary Health Care Institution "Novosibirsk Regional Clinical Oncology Dispensary", Novosibirsk, Russia; ⁵Hospital Universitario Ramón y Cajal, Madrid, Spain; ⁶Kyushu University, Fukuoka, Japan; ⁷Texas Oncology, Dallas, TX, USA; ⁸Memorial Sloan Kettering Cancer Center, New York, NY, USA; ⁹Western University, London, Ontario, Canada; ¹⁰Hospital de la Santa Creu i Sant Pau, Barcelona, Spain; ¹¹Seoul National University Hospital, Seoul, Korea; ¹²Fondazione IRCCS Istituto Nazionale dei Tumori di Milano, Milan, Italy; ¹³Western Health, VIC, Australia; ¹⁴Palacký University Medical School and Teaching Hospital, Olomouc, Czech Republic; ¹⁵Centre René Gauducheau Centre de Lutte Contre Le Cancer Nantes, Saint-Herblain, France; ¹⁶Keio University School of Medicine, Tokyo, Japan; ¹⁷Merck & Co., Inc., Kenilworth, NJ, USA; ¹⁸Eisai Inc., Woodcliff Lake, NJ, USA; ¹⁹Eisai Ltd., Hatfield, England, UK; ²⁰San Matteo University Hospital Foundation, Pavia, Italy.

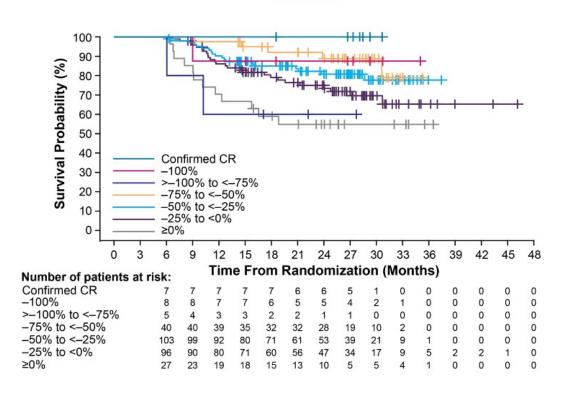


CLEAR: 6-Month OS Analysis by Depth of Response

Lenvatinib plus Pembrolizumab



Sunitinib



Among patients treated with lenvatinib plus pembrolizumab, all those who had a complete response were alive at 2 years; survival rates were similar for patients who had more than 75% reduction in target lesions.

Tumors assessed by Independent Review Committee per RECIST v1.1



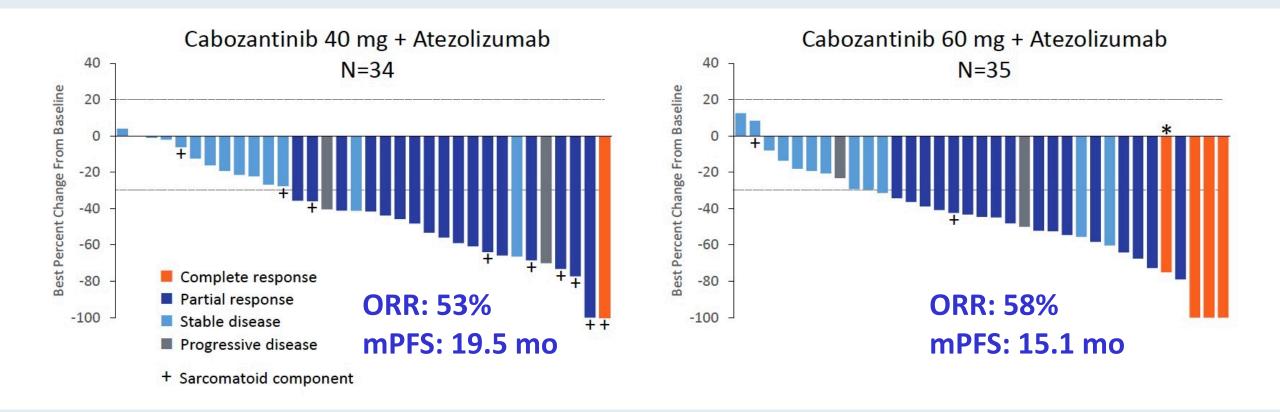
Cabozantinib (C) in Combination with Atezolizumab (A) as First-Line Therapy for Advanced Clear Cell Renal Cell Carcinoma (ccRCC): Results from the COSMIC-021 Study

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 RCC

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



Sequencing of Therapy for Patients with Relapsed/Refractory RCC; Novel Approaches under Investigation



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."



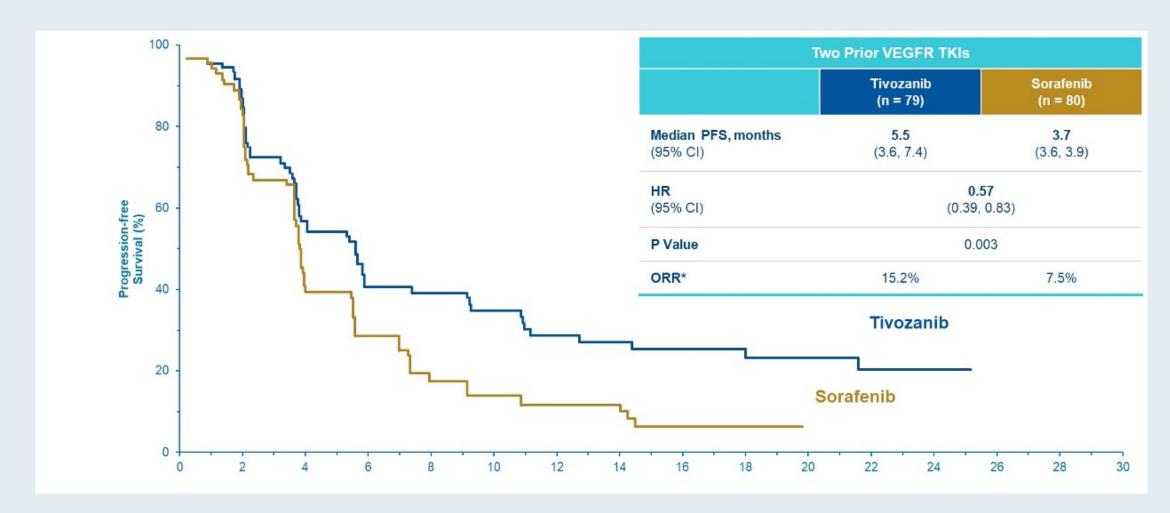
Tivozanib in Patients with Advanced Renal Cell Carcinoma (aRCC) Who Have Progressed After Prior Treatment of Axitinib: Results from TIVO-3

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 rd Line Any Prior Axitinib	47	46	5.5	3.9	0.71	16%	6%
4 th Line Any Prior Axitinib	36	43	5.5	3.6	0.64	11%	10%
3 rd and 4 th Line Any Prior Axitinib	83	89	5.5	3.7	0.68	13%	8%



TIVO-3: Durability of Response and Updated Overall Survival of Tivozanib versus Sorafenib in Metastatic Renal Cell Carcinoma (mRCC)

Verzoni et al.

ASCO 2021; Abstract 4546.

"Tivozanib demonstrated clinically meaningful and statistically significant improvement in ORR and DoR with similar OS to sorafenib in patients with highly relapsed or refractory mRCC"

Median DoR was 20.3 months with tivozanib, twice that observed with sorafenib



FDA Approves Belzutifan for Cancers Associated with von Hippel-Lindau Disease

Press Release – August 13, 2021

"The Food and Drug Administration approved belzutifan, a hypoxia-inducible factor inhibitor for adult patients with von Hippel-Lindau (VHL) disease who require therapy for associated renal cell carcinoma (RCC), central nervous system (CNS) hemangioblastomas, or pancreatic neuroendocrine tumors (pNET), not requiring immediate surgery.

Belzutifan was investigated in the ongoing Study 004 (NCT03401788), an open-label clinical trial in 61 patients with VHL-associated RCC (VHL-RCC) diagnosed based on a VHL germline alteration and with at least one measurable solid tumor localized to the kidney. Enrolled patients had other VHL-associated tumors, including CNS hemangioblastomas and pNET. Patients received belzutifan 120 mg once daily until disease progression or unacceptable toxicity."



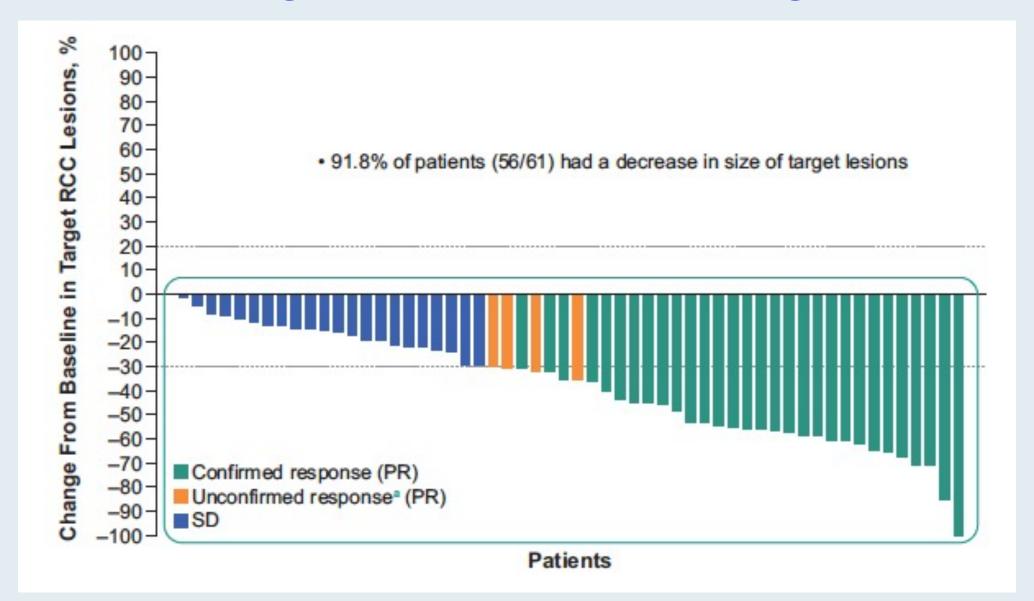
Phase 2 Study of Belzutifan (MK-6482), an Oral Hypoxia-Inducible Factor 2α (HIF-2α) Inhibitor, for Von Hippel-Lindau (VHL) Disease-Associated Clear Cell Renal Cell Carcinoma (ccRCC)

Srinivasan R et al.

ASCO 2021; Abstract 4555.



Maximum Change from Baseline in Sum of Target RCC Lesions





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

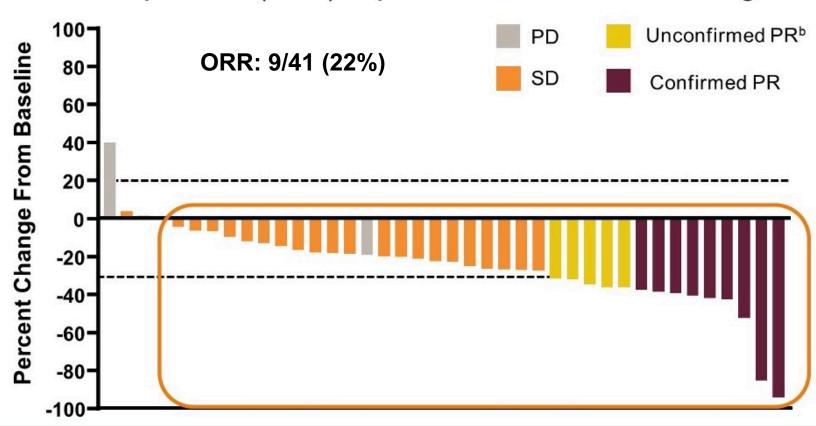
<u>Toni K. Choueiri</u>¹; Todd M. Bauer²; David F. McDermott³; Edward Arrowsmith⁴; Ananya Roy⁵; Rodolfo Perini⁵; Donna Vickery⁵; Scott S. Tykodi⁶

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



Best Tumor Change from Baseline

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





Summary of Adverse Events

n (%)	N = 52
Any grade treatment-emergent AE	52 (100)
Any grade treatment-related AE	51 (98)
Related to belzutifan	51 (98)
Related to cabozantinib	51 (98)
Grade 3-5 treatment-emergent AEs	35 (67)
Grade 3 ^b treatment-related AEs	31 (60)
Related to belzutifan	17 (33)
Related to cabozantinib	28 (54)
Serious treatment-emergent AEs	16 (31)
Serious treatment-related AEs	7 (13)
Related to belzutifan	4 (8)
Related to cabozantinib	4 (8)

n (%)	N = 52
Deaths due to a treatment-emergent AE	1 (2)°
Deaths due to a treatment-related AE	0 (0)
Belzutifan dose reduced ^d	10 (19)
Cabozantinib dose reduced ^e	25 (48)
Discontinued any drug due to a treatment-emergent AE	8 (15)
Discontinued belzutifanf	6 (12)
Discontinued cabozantinib ^g	8 (15)



Treatment-Related Adverse Events

Treatment-Related	Safety Analysis Set N = 52				
AEs in ≥15% of	Α	ny Grade	Grad	Grade 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)



^aAll patients who received ≥1 dose of treatment. Data cutoff: October 15, 2020.

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

Thursday, September 16, 2021 5:00 PM - 6:00 PM ET

Faculty

Loretta J Nastoupil, MD

Moderator Neil Love, MD

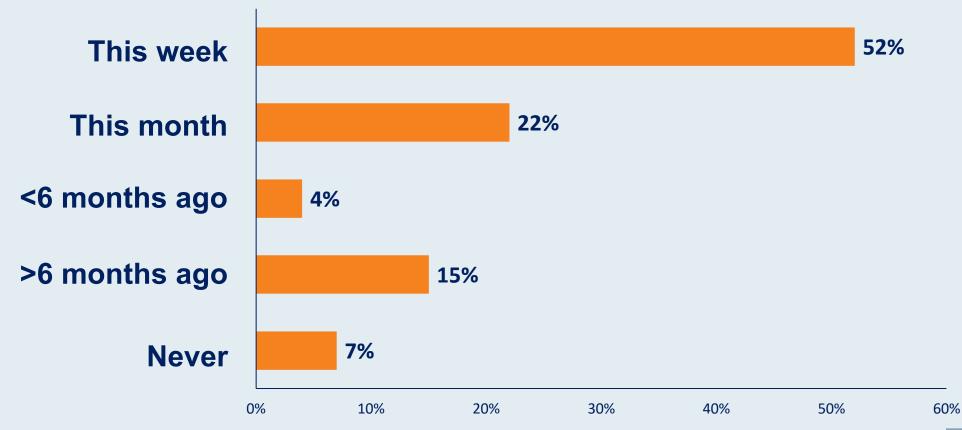


Thank you for joining us!

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

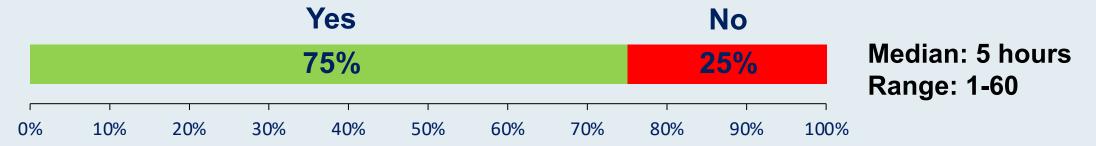


When was the last time that you presented, or had a case presented for you, at a local tumor board meeting?

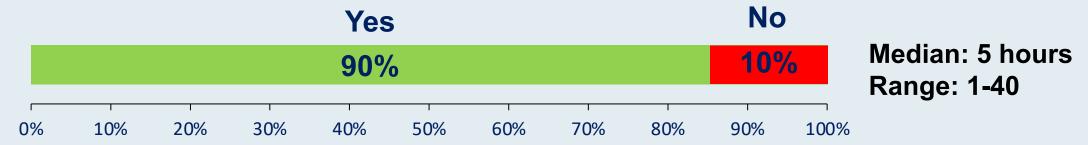




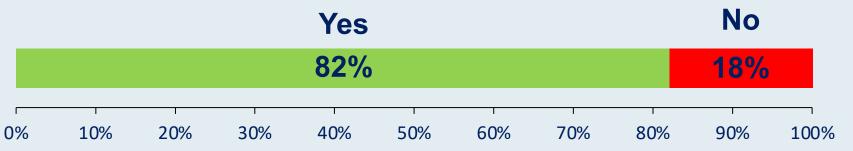
In the past month have you listened to audio podcasts not related to medicine?



In the past month have you listened to oncology-related audio podcasts?



In the past month have you listened to RTP audio podcasts?



Median: 4 hours

Range: 1-66



Premeeting survey: July 2021