

Year in Review: GU Oncology

Saby George, MD, FACP

Associate Professor of Medicine and Oncology
Genitourinary Program
Roswell Park Comprehensive Cancer Center

COI DISCLOSURES

- Consultant/
 Advisory role: Astra
 Zeneca, Bayer, BMS,
 Corvus, Exelixis,
 Genentech, Janssen,
 Novartis, Pfizer,
 EMD Serono
- Institutional Research funds: Bayer, BMS, Corvus, Novartis, Pfizer, Merck, Celldex, Astellas, Seattle Genetics, Calithera Therapeutics, **Immunomedics**

Objectives

Updates in GU Oncology-2019

- Kidney Cancer
- Bladder cancer
- Prostate Cancer

- A 56 y/o male was recently referred to you for stage IV RCC (to lung, lymph nodes and adrenal) and has favorable risk per IMDC. What is the best treatment option?
- 1. Ipilimumab plus nivolumab
- 2. Sunitinib
- 3. High dose IL-2
- 4. Axitinib plus pembrolizumab
- 5. 2 and 4



- A 68 y/o female patient has a history of stage IV bladder cancer. She was found to have progressive disease after 1st line platinum and 2nd line pembrolizumab. Her performance status is ECOG1. What is the next best step?
- 1. Cisplatin rechallenge
- 2. RT-PCR testing for FGFR2/3
- 3. Hospice care
- 4. Switch to nivolumab



- A 71-year-old with newly-diagnosed metastatic prostate cancer patient is referred to you. His prostate biopsy showed GS 4+3=7 adenocarcinoma. He has two bone mets and PSA of 112 and normal counts and CMP and has no other co-morbidities. What is the best first treatment for this patient?
- 1. ADT alone
- 2. ADT plus enzalutamide
- 3. Bilateral orchiectomy only
- 4. ADT plus docetaxel



NCCN: Advanced Kidney Cancer

PRINCIPLES OF SYSTEMIC THERAPY FOR RELAPSE OR STAGE IV DISEASE

FIRST-LINE THE	RAPY FOR CLEAR CELL HISTOLOGY		
Risk	Preferred regimens	Other recommended regimens	Useful under certain circumstances
Favorable ^a	Axitinib + pembrolizumab Pazopanib Sunitinib	Ipilimumab + nivolumab Cabozantinib (category 2B) Axitinib + avelumab	 Active surveillance^b Axitinib (category 2B) High-dose IL-2^c
Poor/ intermediate ^a	Ipilimumab + nivolumab (category 1) Axitinib + pembrolizumab (category 1) Cabozantinib	PazopanibSunitinibAxitinib + avelumab	Axitinib (category 2B) High-dose IL-2 ^c Temsirolimus ^d

SUBSEQUENT THERAPY FOR CLEAR CELL HISTOLOGY			
Preferred regimens	Other recommended regimens	Useful under certain circumstances	
Cabozantinib (category 1) Nivolumab (category 1) Ipilimumab + nivolumab	Axitinib (category 1) Lenvatinib + everolimus (category 1) Axitinib + pembrolizumab Everolimus Pazopanib Sunitinib Axitinib + avelumab (category 3)	Bevacizumab or biosimilar ^e (category 2B) Sorafenib (category 2B) High-dose IL-2 for selected patients ^c (category 2B) Temsirolimus ^d (category 2B)	



JAVELIN Renal 101: Randomized Phase 3 Trial of Avelumab + Axitinib vs Sunitinib as First-Line Treatment of Advanced Renal Cell Carcinoma

Robert J. Motzer,¹ Konstantin Penkov,² John Haanen,³ Brian Rini,⁴ Laurence Albiges,⁵ Matthew T. Campbell,⁶ Christian Kollmannsberger,⁷ Sylvie Negrier,⁸ Motohide Uemura,⁹ Jae Lyun Lee,¹⁰ Howard Gurney,¹¹ Raanan Berger,¹² Manuela Schmidinger,¹³ James Larkin,¹⁴ Michael B. Atkins,¹⁵ Jing Wang,¹⁶ Paul B. Robbins,¹⁷ Aleksander Chudnovsky,¹⁶ Alessandra di Pietro,¹⁸ and Toni K. Choueiri¹⁹

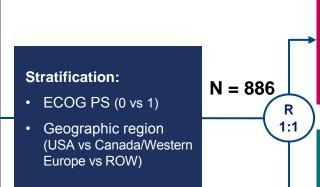
¹Memorial Sloan Kettering Cancer Center, New York, NY, USA; ²Private Medical Institution Euromedservice, Pushkin, St. Petersburg, Russian Federation; ³Netherlands Cancer Institute, Amsterdam, Netherlands; ⁴Cleveland Clinic Taussig Cancer Institute, Cleveland, OH, USA; ⁵Institut Gustave Roussy, Villejuif, France; ⁶The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ¬British Columbia Cancer Agency, Vancouver, BC, Canada; ⁶Centre Léon Bérard, Lyon, France; બOsaka University Hospital, Osaka, Japan; ¹0University of Ulsan College of Medicine, Asan Medical Center, Seoul, Korea; ¹¹Macquarie University, Sydney, NSW, Australia; ¹²Chaim Sheba Medical Center and Tel Aviv University Sackler School of Medicine, Israel; ¹³Medical University of Vienna; Department of Medicine, I, Clinical Division of Oncology and Comprehensive Cancer Center, Vienna, Austria; ¹⁴The Royal Marsden NHS Foundation Trust, London, UK; ¹⁵Georgetown Lombardi Comprehensive Cancer Center Washington, D.C., USA; ¹命Pfizer Inc, Cambridge, MA, USA; ¹³Pfizer Inc, San Diego, CA, USA; ¹³Pfizer SRL, Lombardia, Italy; ¹³The Lank Center for Genitourinary Oncology, Dana-Farber Cancer Institute and Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA

Abstract No. LBA6 PR esmo.org

JAVELIN Renal 101: study design

Key eligibility criteria:

- Treatment-naive aRCC with a clear cell component
- ≥ 1 measurable lesion as defined by RECIST v1.1
- Tumor tissue available for PD-L1 staining
- ECOG PS 0 or 1



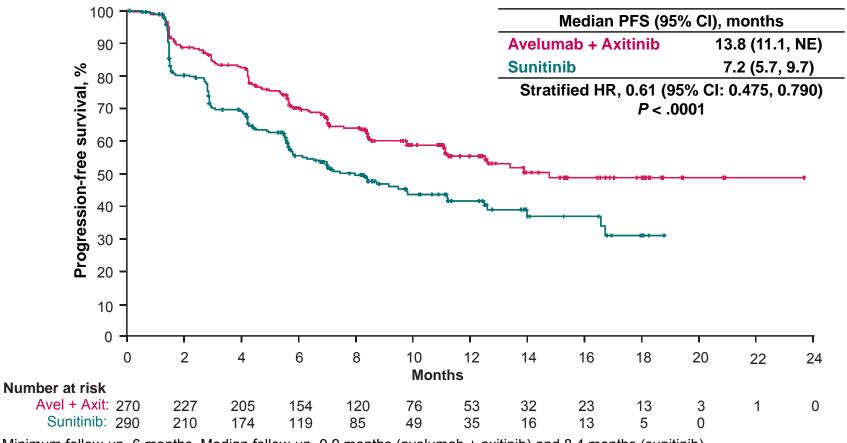
Avelumab 10 mg/kg IV Q2W
+
Axitinib 5 mg PO BID
(6-week cycle)

Sunitinib 50 mg PO QD (4 weeks on, 2 weeks off)

BID, twice per day; ECOG PS, Eastern Cooperative Oncology Group performance status; IV, intravenous; PO, orally; Q2W, every 2 weeks; QD, once per day; ROW, rest of the world.



PFS per IRC in the PD-L1+ group



Minimum follow-up, 6 months. Median follow-up, 9.9 months (avelumab + axitinib) and 8.4 months (sunitinib).

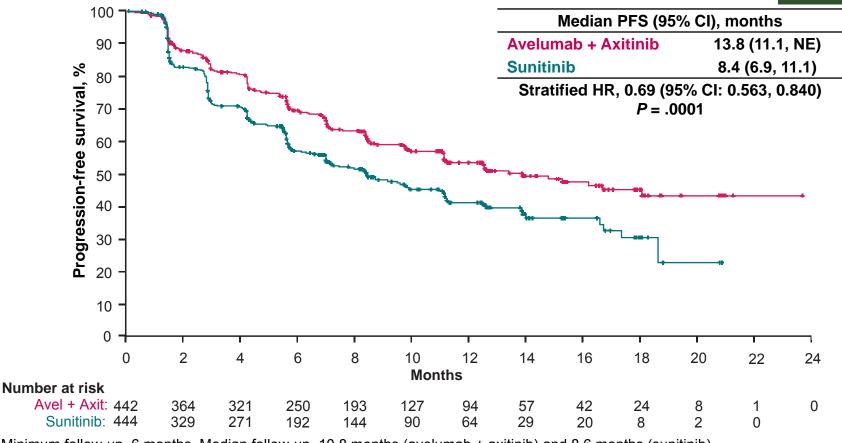
The PFS analysis crossed the prespecified efficacy boundary based on the alpha-spending function (P = .001).

NE, not estimable.



Key secondary endpoint

PFS per IRC in the overall population



Minimum follow-up, 6 months. Median follow-up, 10.8 months (avelumab + axitinib) and 8.6 months (sunitinib). The PFS analysis crossed the prespecified efficacy boundary based on the alpha-spending function (P = .001).



Confirmed objective response

	PD-L1+ group (N = 560)		Overall population (N = 886)	
Per IRC	Avelumab + Axitinib (N = 270)	Sunitinib (N = 290)	Avelumab + Axitinib (N = 442)	Sunitinib (N = 444)
Objective response rate (95% CI), %	55 (49.0, 61.2)	26 (20.6, 30.9)	51 (46.6, 56.1)	26 (21.7, 30.0)
Best overall response, %*				
Complete response	4	2	3	2
Partial response	51	23	48	24
Stable disease	27	43	30	46
Progressive disease	11	22	12	19
Not evaluable [†]	4	7	6	8
Patients with ongoing response, % [‡]	73	65	70	71
Per investigator assessment				
Objective response rate (95% CI), %	62 (55.8, 67.7)	30 (24.5, 35.3)	56 (51.1, 60.6)	30 (25.9, 34.7)
Best overall response, %				
Complete response	4	3	3	2
Partial response	58	27	53	28

Median duration of response was not yet reached in either treatment arm in either population.

^{*} Patients without target lesions at baseline per IRC who achieved non-complete response/non-progressive disease: 3% (avelumab + axitinib) and 2% (sunitinib) in the PD-L1+ group; 2% (avelumab + axitinib) and 2% (sunitinib) in the overall population. † Including patients with no postbaseline assessments. ‡ In patients with confirmed complete or partial response.



Pembrolizumab plus Axitinib vs Sunitinib as First-Line Therapy for Advanced Renal Cell Carcinoma: KEYNOTE-426

Thomas Powles,¹ Elizabeth R. Plimack,² Viktor Stus,³ Rustem Gafanov,⁴ Robert Hawkins,⁵ Dmitry Nosov,⁶ Frédéric Pouliot,² Boris Alekseev,⁶ Denis Soulières,⁶ Bohuslav Melichar,¹⁰ Ihor Vynnychenko,¹¹ Anna Kryzhanivska,¹² Igor Bondarenko,¹³ Sergio J. Azevedo,¹⁴ Delphine Borchiellini,¹⁵ Cezary Szczylik,¹⁶ Maurice Markus,¹² Raymond S. McDermott,¹ፆ Jens Bedke,¹⁰ Sophie Tartas,²⁰ Yen-Hwa Chang,²¹ Satoshi Tamada,²² Qiong Shou,²³ Rodolfo F. Perini,²⁴ Mei Chen,²⁴ Michael B. Atkins,²⁵ Brian I. Rini²⁶

¹Barts Health and the Royal Free NHS Trusts, Barts Cancer Institute, and Queen Mary University of London, London, UK; ²Fox Chase Cancer Center, Philadelphia, PA; ³Dnipropetrovsk Medical Academy of Ministry of Health of Ukraine, Dnipro, Ukraine; ⁴Russian Scientific Center of Roentgenoradiology, Moscow, Russia; ⁵The Christie NHS Foundation Trust, Manchester, UK; ⁶Central Clinical Hospital with Outpatient Clinic, Moscow, Russia; 7CHU de Quebec and Université Laval, Quebec City, QC; ³Hertzen Moscow Cancer Research Institute, Moscow, Russia; 9Centre Hospitalier de l'Universitaire de Montréal, Montréal, QC; ¹ºPalacky University Medical School and Teaching Hospital, Olomouc, Czech Republic; ¹¹Sunipropetrovsk Medical University, Sumy Regional Oncology Center, Sumy, Ukraine; ¹¹Vano-Frankivsk National Medical University, Ivano-Frankivsk, Ukraine; ¹¹Dnipropetrovsk Medical Academy, Dnipro, Ukraine; ¹¹Hospital de Clínicas de Porto Alegre, Porto Alegre, Brazil; ¹⁵Centre Antoine Lacassagne, Université Côte d'Azur, Nice, France; ¹⁶Military Institute of Medicine, Warsaw, Poland (currently affiliated with the Department of Oncology, Postgraduate Education Center ECZ, Otwock, Poland); ¹¬Rocky Mountain Cancer Center, Colorado Springs, CO, USA; ¹⁶Adelaide and Meath Hospital and University College Dublin, Dublin, Ireland; ¹¹PDepartment of Urology, Eberhard-Karls University Tübingen, Tübingen, Germany; ²⁰Hôpitaux Universitaires de Lyon, Lyon, France; ²¹Taipei Veterans General Hospital, Taipei, Taiwan; ²²Osaka City University Hospital, Osaka, Japan; ²³MSD China, Beijing, China; ²⁴Merck & Co., Inc., Kenilworth, NJ, USA; ²⁵Georgetown—Lombardi Comprehensive Cancer Center, Washington, D.C.; ²⁵Cleveland Clinic Taussig Cancer Institute, Cleveland, OH

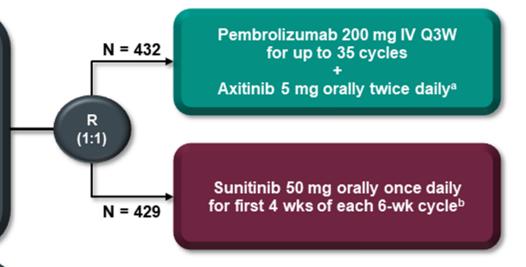
KEYNOTE-426 Study Design

Key Eligibility Criteria

- Newly diagnosed or recurrent stage IV clear-cell RCC
- No previous systemic treatment for advanced disease
- Karnofsky performance status ≥70
- Measurable disease per RECISTv1.1
- Provision of a tumor sample for biomarker assessment
- Adequate organ function

Stratification Factors

- IMDC risk group (favorable vs intermediate vs poor)
- Geographic region (North America vs Western Europe vs ROW)



End Points

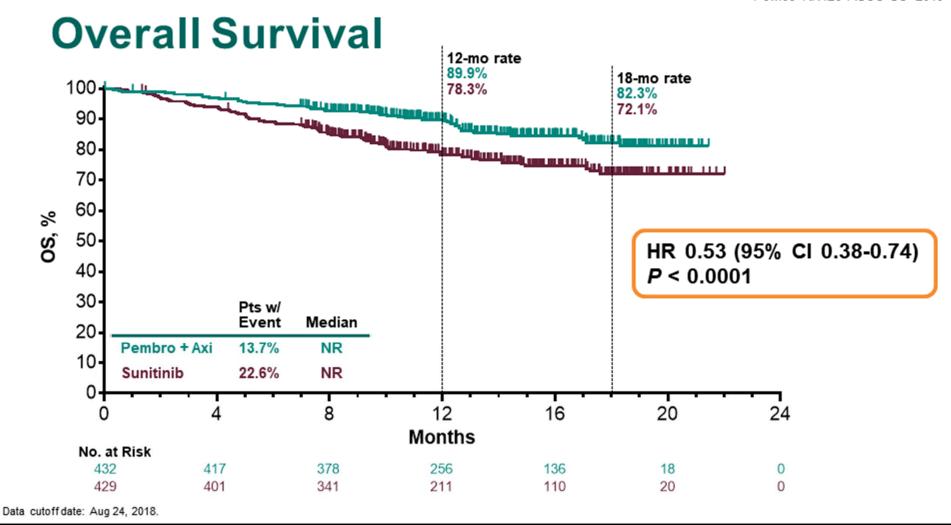
- Dual primary: OS and PFS (RECIST v1.1, BICR) in ITT
- Key secondary: ORR (RECIST v1.1, BICR) in ITT
- Other secondary: DOR (RECIST v1.1), PROs, safety

"Axitinib dose could be increased to 7 mg, then 10 mg, twice daily if safety criteria were met; dose could be reduced to 3 mg, then 2 mg, twice daily to manage toxicity.

"Sunitinib dose could be decreased to 37.5 mg, then 25 mg, once daily for the first 4 wks of each 6-wk cycle to manage toxicity.

BICR, blinded independent central radiologic review; DOR, duration of response; PROs, patient-reported outcomes; ROW, rest of world.

KEYNOTE-426 is a randomized, open-label, phase 3 study (ClinicalTrials.gov identifier NCT02853331).



NCCN: Advanced Bladder Cancer

PRINCIPLES OF SYSTEMIC THERAPY

Subsequent systemic therapy for locally advanced or metastatic disease (Stage IV) (post-platinum) ^c Participation in clinical trials of new agents is recommended.		
Preferred regimen • Pembrolizumab (category 1) ¹⁸	Other recommended regimens • Albumin-bound paclitaxel ²⁷ • Paclitaxel or docetaxel ²⁵ • Gemcitabine ¹⁴ • Pemetrexed ²⁶	
Alternative preferred regimens • Atezolizumab ¹⁹ • Nivolumab ²⁰ • Durvalumab ²¹ • Avelumab ^{22,23} • Erdafitinib ^{d,24}	Useful in certain circumstances based on prior medical therapy • Ifosfamide ²⁸ • Methotrexate • Ifosfamide, doxorubicin, and gemcitabine ¹⁶ • Gemcitabine and paclitaxel ¹⁵ • Gemcitabine and cisplatin ⁴ • DDMVAC with growth factor support ²	

Subsequent systemic therapy for locally advanced or metastatic disease (Stage IV) (post-checkpoint inhibitor) Participation in clinical trials of new agents is recommended.		
Preferred regimen for cisplatin ineligible, chemotherapy naïve • Gemcitabine/carboplatin	Other recommended regimens • Albumin-bound paclitaxel ²⁷ • Paclitaxel or docetaxel ²⁵ • Gemcitabine ¹⁴ • Pemetrexed ²⁶	
Preferred regimens for cisplatin eligible, chemotherapy naïve • Gemcitabine and cisplatin ⁴ • DDMVAC with growth factor support ²	Useful in certain circumstances based on prior medical therapy • Ifosfamide ²⁸ • Methotrexate • Ifosfamide, doxorubicin, and gemcitabine ¹⁶ • Gemcitabine and paclitaxel ¹⁵	

First Results From the Primary Analysis Population of the Phase 2 Study of Erdafitinib (JNJ-42756493) in Patients With Metastatic or Surgically Unresectable Urothelial Carcinoma and FGFR Alterations

Arlene O. Siefker-Radtke,¹ Andrea Necchi,² Se Hoon Park,³ Jesus Garcia-Donas,⁴ Robert A. Huddart,⁵ Earle F. Burgess,⁶ Mark T. Fleming,⁷ Arash Rezazadeh,⁸ Begoña Mellado,⁹ Sergey Varlamov,¹⁰ Monika Joshi,¹¹ Ignacio Duran,¹² Scott T. Tagawa,¹³ Anne O'Hagan,¹⁴ Anjali N. Avadhani,¹⁴ Bob Zhong,¹⁴ Peter De Porre,¹⁵ and Yohann Loriot¹⁶ on behalf of the BLC2001 Study Group sponsored by Janssen Research & Development

¹The University of Texas MD Anderson Cancer Center, Houston, Texas, USA; ²Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy; ³Samsung Medical Center, Seoul, Korea; ⁴Clara Campal Comprehensive Cancer Center, Madrid, Spain; ⁵Institute of Cancer Research, Sutton, London, UK; ⁶Levine Cancer Institute, Carolinas HealthCare System, Charlotte, North Carolina, USA; ²Virginia Oncology Associates, US Oncology Research, Norfolk, Virginia, USA; ®Norton Healthcare, Louisville, Kentucky, USA; ⁰Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain; ¹ºAltai Regional Cancer Center, Barnaul, Russia; ¹¹Penn State Cancer Institute, Hershey, Pennsylvania, USA; ¹²Hospital Universitario Marques de Valdecilla, Santander, Cantabria, Spain; ¹³Weill Cornell Medical College, New York, NY, USA; ¹⁴Janssen Research & Development, Spring House, Pennsylvania, USA; ¹⁵Janssen Research & Development, Beerse, Belgium; ¹⁵Institut Gustave Roussy, Villejuif, France



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Phase 2 BLC2001 Study Design

RANDOM Patients with Screening Regimen 1: 10 mg/d for 7 days metastatic or for FGFR on/7 days off surgically fusions/ unresectable ZATIO mutations on locally tissue by Regimen 2: 6 mg QD advanced UC central lab

Regimen 3^a : 8 mg QD with PD Uptitration to 9 mg QD $\mathbf{n} = \mathbf{99}$ Primary end point

ORR

Secondary end points

PFS, DoR, OS, safety, predictive biomarker evaluation, and PK

Patients

- Progression on ≥ 1 line prior systemic chemo or within 12 months of (neo)adjuvant chemo OR
- Chemo-naïve: cisplatin ineligible per protocol criteriab
- Prior immunotherapy was allowed

Primary hypothesis:

- ORR in Regimen 3 is > 25%
- One-sided $\alpha = 0.025$
- 85% power

 3 Dose uptitration if ≥ 5.5 mg/dL target serum phosphate not reached by Day 14 and if no TRAEs. b Ineligibility for cisplatin: impaired renal function or peripheral neuropathy.

Abbreviations: DoR, duration of response; PD, pharmacodynamics; PFS, progression-free survival; PK, pharmacokinetics; QD, daily; TRAEs, treatment-related adverse events.





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Antitumor Activity

Study has met the primary objective

		FOEW CIT
		[95% CI]
Patients, n	99	
Response per investigator assessment ^{a,b} , n (%)		
ORR	40 (40.4)	[30.7-50.1]
Complete response Partial response	3 (3.0) 37 (37.4)	
Stable disease	39 (39.4)	
Progressive disease	18 (18.2)	
Median time to response	1.4 months	
Median duration of response	5.6 months	[4.2-7.2]
ORR among patient subgroups, n (%) Chemo-naïve vs progressed/relapsed after chemo With vs without visceral metastases	5/12 (41.7) vs 35/87 (40.2) 30/78 (38.5) vs 10/21 (47.6)	
^a Confirmed with second scan at least 6 weeks following the initial observation of response. ^b Response in 2 patients was unknown.		

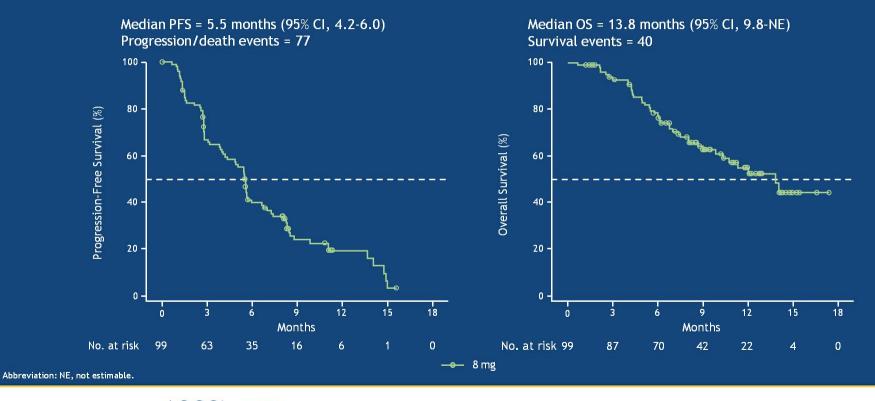
21.2% of patients remain on study treatment after 11 months of follow-up

Abbreviations: CI, confidence interval



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Progression-Free Survival ~6 Months Overall Survival > 1 Year





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Randomized double-blind phase II study of maintenance pembrolizumab versus placebo after first-line chemotherapy in patients with metastatic urothelial cancer: HCRN GU14-182

Matthew D. Galsky, Sumanta K. Pal, Amir Mortazavi, Matthew I. Milowsky, Saby George, Sumati Gupta, Mark T. Fleming, Long H. Dang, Daniel M. Geynisman, Radhika Walling, Robert S. Alter, Erwin L. Robin, Jue Wang, Shilpa Gupta, David D. Chism, Joel Picus, George Philips, David I. Quinn, Noah M. Hahn, Menggang Yu

Icahn School of Medicine at Mount Sinai; City of Hope National Medical Center, Duarte, CA; Ohio State University; University of North Carolina at Chapel Hill School of Medicine; Roswell Park Cancer Institute; Huntsman Cancer Institute-University of Utah Health Care; Virginia Oncology Associates; University of Florida; Fox Chase Cancer Center; Community Cancer Center; John Theurer Cancer Center at Hackensack University Medical Center; University of Arizona Cancer Center at Dignity Health St. Joseph's Hospital and Medical Center; Masonic Cancer Center, University of Minnesota; Vanderbilt University Medical Center; Washington University School of Medicine; Georgetown University Hospital; USC Norris Comprehensive Cancer Center; Johns Hopkins University School of Medicine; University of Wisconsin; Hoosier Cancer Research Network

HCRN GU14-182

Metastatic UC
At least stable
disease
≤ 8 cycles of
platinum-based
chemotherapy

Randomized
Stratification
Lymph-node only
metastases (Y/N)
Response to 1st line
chemo (CR/PR vs SD)

Placebo q3 weeks x up to 24 months



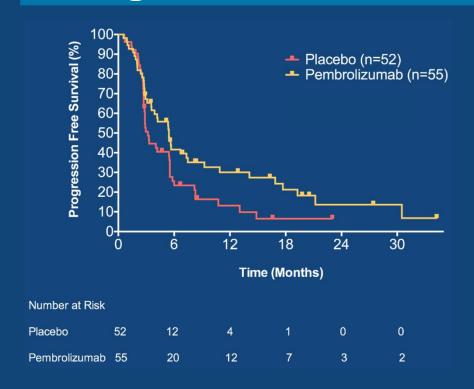
Pembrolizumab 200 mg IV q3 weeks x up to 24 months

Objective Response Rate (RECIST 1.1)

Characteristic	Placebo (n=52)	Pembrolizumab (n=55)
Not evaluable (baseline CR)	10	9
Overall response	12%	22%
Partial response	12%	13%
Complete response	0	9%
Stable disease	29%	35%
Progressive disease	54%	33%
Unknown	5%	10%



Progression-free Survival



Median PFS and 95% CI Placebo: 3.2 (2.8, 5.5) Pembrolizumab: 5.4 (3.6, 9.2)

Hazard Ratio: 0.64 (0.41, 0.98)

Log rank p = 0.038

Bladder summary

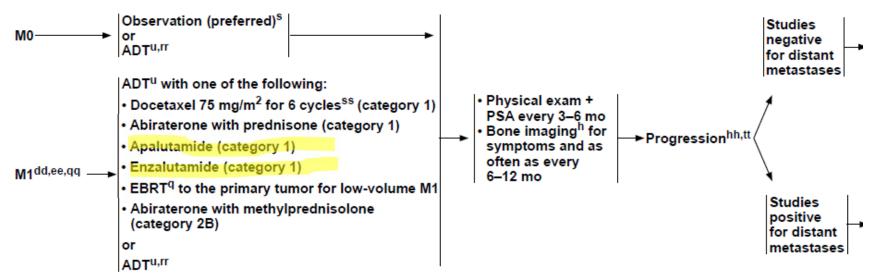
 Switch-maintenance pembrolizumab significantly delays disease progression in patients with Muc

PRESENTED BY:

Erdafitinib approved for FGFR2/3 variants of met TCC

NCCN: Advanced Prostate Cancer-Metastatic Castration Naive

SYSTEMIC THERAPY FOR CASTRATION-NAIVE DISEASE^{jj,pp}



OVERALL SURVIVAL (OS) RESULTS OF A PHASE III RANDOMIZED TRIAL OF STANDARD OF CARE THERAPY WITH OR WITHOUT ENZALUTAMIDE FOR METASTATIC HORMONE SENSITIVE PROSTATE CANCER (mHSPC)

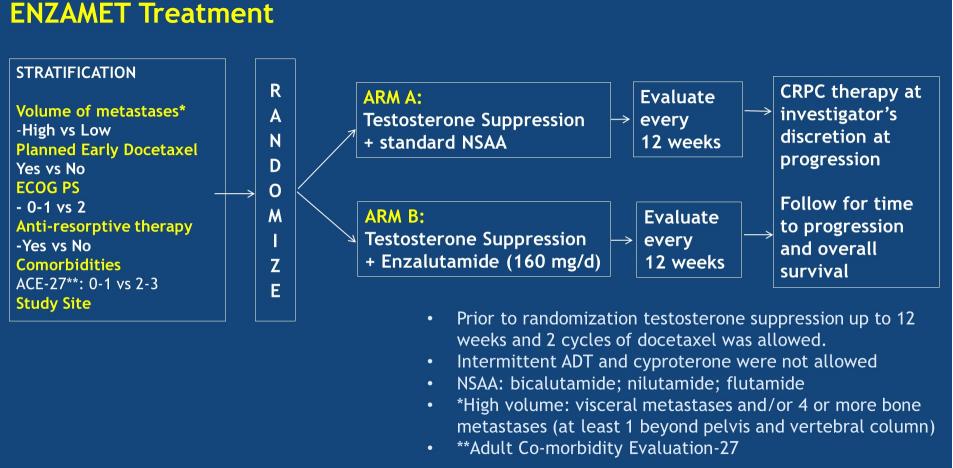
ENZAMET (ANZUP 1304):
AN ANZUP-LED INTERNATIONAL CO-OPERATIVE GROUP TRIAL
(NHMRC CTC, CCTG, CTI, DFCI)

Christopher Sweeney, Andrew Martin, Robert Zielinski, Alastair Thomson, Thean Hsiang Tan, Shahneen Sandhu, M. Neil Reaume, David Pook, Francis Parnis, Scott North, Gavin Marx, John McCaffrey, Ray McDermott, Nicola Lawrence, Lisa Horvath, Mark Frydenberg, Simon Chowdhury, Kim Chi, Martin Stockler, Ian Davis



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PRESENTED BY: Christopher Sweeney, MBBS

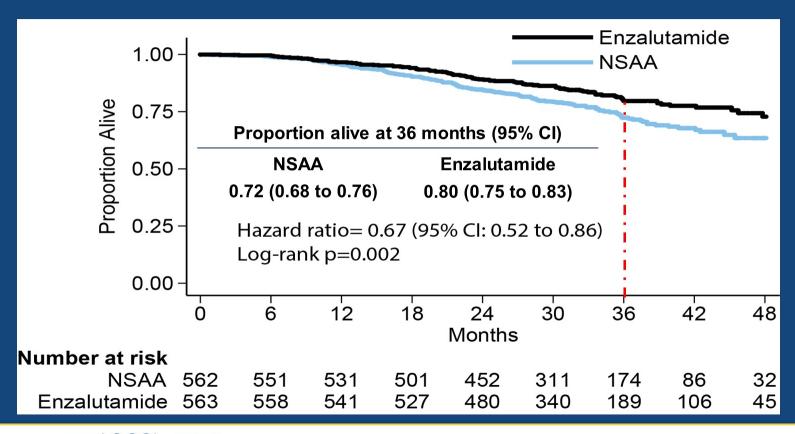


2019 **ASCO** PRESENTED AT: ANNUAL MEETING

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Primary endpoint: Overall survival



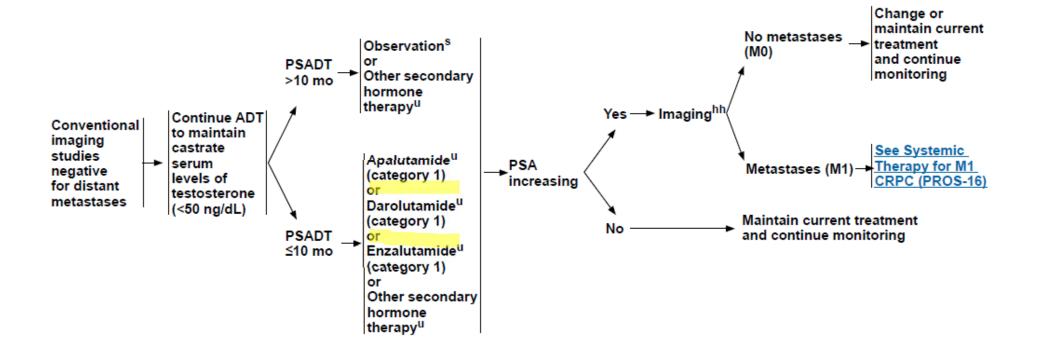
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PRESENTED BY: Christopher Sweeney, MBBS

NCCN: Advanced Prostate Cancer: M0 CRPC

SYSTEMIC THERAPY FOR M0 CASTRATION-RESISTANT PROSTATE CANCER (CRPC)



Conclusions

Kidney cancer: new first line standards of care

- Axitinib and avelumab
- Axitinib and pembrolizumab

Advanced Bladder cancer:

- Switch maintenance with pembrolizumab offers prolonged PFS.
- Erdafitinib offers PFS benefit to FRFR2/3 positive bladder cancer patients.

CSPC:

- Apalutamide
- Enzalutamide

CRPC (M0):

- Darolutamide
- Enzalutamide

- A 56 y/o male was recently referred to you for stage IV RCC (to lung, lymph nodes and adrenal) and has favorable risk per IMDC. What is the best treatment option?
- 1. Ipilimumab plus nivolumab
- 2. Sunitinib
- 3. High dose IL-2
- 4. Axitinib plus pembrolizumab
- 5. 2 and 4



- A 68 y/o female patient has a history of stage IV bladder cancer. She was found to have progressive disease after 1st line platinum and 2nd line pembrolizumab. Her performance status is ECOG1. What is the next best step?
- 1. Cisplatin rechallenge
- 2. RT-PCR testing for FGFR2/3
- 3. Hospice care
- 4. Switch to nivolumab



- A 71-year-old with newly-diagnosed metastatic prostate cancer patient is referred to you. His prostate biopsy showed GS 4+3=7 adenocarcinoma. He has two bone mets and PSA of 112 and normal counts and CMP and has no other co-morbidities. What is the best first treatment for this patient?
- 1. ADT alone
- 2. ADT plus enzalutamide
- 3. Bilateral orchiectomy only
- 4. ADT plus docetaxel

