Meet The Professor Optimizing the Management of Metastatic Castration-Resistant Prostate Cancer

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Head of Service and Full Professor
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University of Paris Saclay
Villejuif, France



Commercial Support

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Dr Love — Disclosures

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



Prof Fizazi — Disclosures

Advisory Committee and Consulting Agreements

Bayer HealthCare Pharmaceuticals, CureVac, Orion Corporation.



We Encourage Clinicians in Practice to Submit Questions

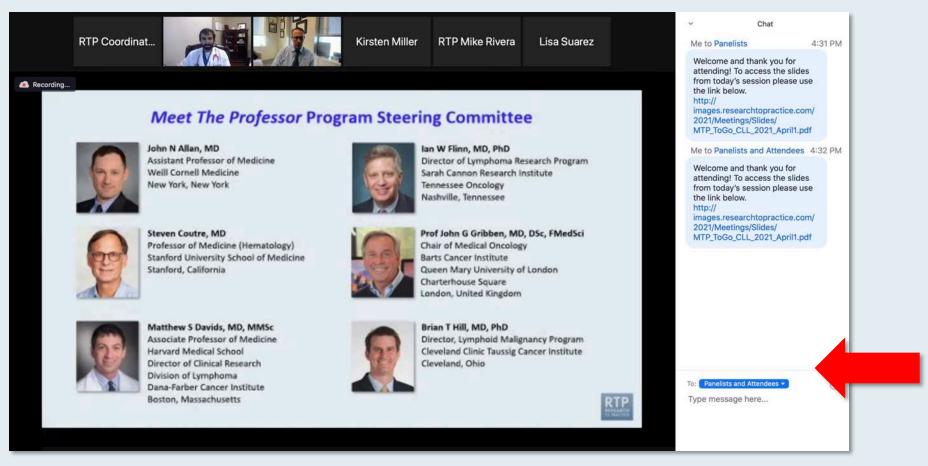


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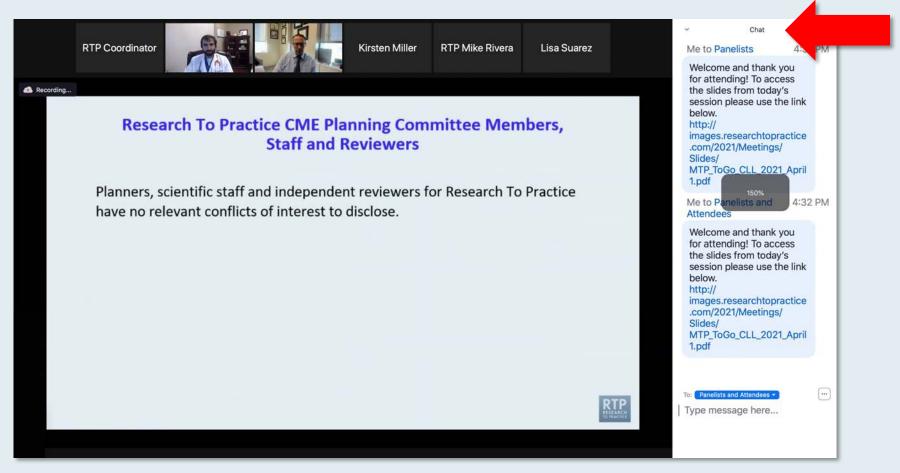


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Familiarizing Yourself with the Zoom Interface

Increase chat font size



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ONCOLOGY TODAY

WITH DR NEIL LOVE

Modern Management of Metastatic Castration-Resistant Prostate Cancer

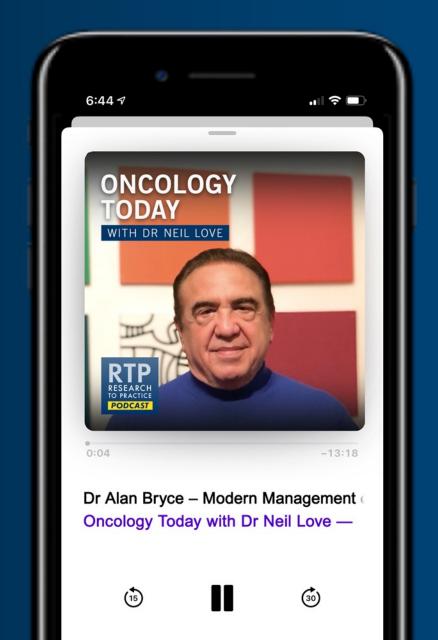


DR ALAN BRYCE
MAYO CLINIC









Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology

Breast Cancer

Thursday, January 6, 2022 5:00 PM - 6:00 PM ET

Faculty

Harold J Burstein, MD, PhD
Professor Peter Schmid, FRCP, MD, PhD



Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology Targeted Therapy for Non-Small Cell Lung Cancer

Tuesday, January 11, 2022 5:00 PM - 6:00 PM ET

Faculty

John V Heymach, MD, PhD Zofia Piotrowska, MD, MHS



Meet The Professor

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

Wednesday, January 12, 2022 6:00 PM - 7:00 PM ET

Faculty
Tiffany A Traina, MD



Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology Immunotherapy and Other Nontargeted Approaches for Lung Cancer

Thursday, January 13, 2022 5:00 PM - 6:00 PM ET

Faculty

Corey J Langer, MD Anne S Tsao, MD, MBA



Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Colorectal Cancer (Part 1 of a 3-Part Series)

Wednesday, January 19, 2022 10:15 PM - 11:45 PM ET

Faculty

Cathy Eng, MD Christopher Lieu, MD Alan P Venook, MD

Moderator Kristen K Ciombor, MD, MSCI



Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Gastroesophageal Cancers (Part 2 of a 3-Part Series)

Thursday, January 20, 2022 9:15 PM - 10:45 PM ET

Faculty

Yelena Y Janjigian, MD Eric Van Cutsem, MD, PhD Harry H Yoon, MD

Moderator Samuel J Klempner, MD



Beyond the Guidelines: Clinical Investigator Perspectives on the Management of Hepatobiliary Cancers (Part 3 of a 3-Part Series)

Friday, January 21, 2022 9:15 PM - 10:45 PM ET

Faculty

Ghassan Abou-Alfa, MD, MBA Richard S Finn, MD Robin K Kelley, MD

Moderator Tanios Bekaii-Saab, MD



Thank you for joining us!

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



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Meet The Professor Program Participating Faculty



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Villejuif, France



Meet The Professor Program Participating Faculty



Alicia K Morgans, MD, MPH
Genitourinary Medical Oncologist
Medical Director, Survivorship Program
Dana-Farber Cancer Institute
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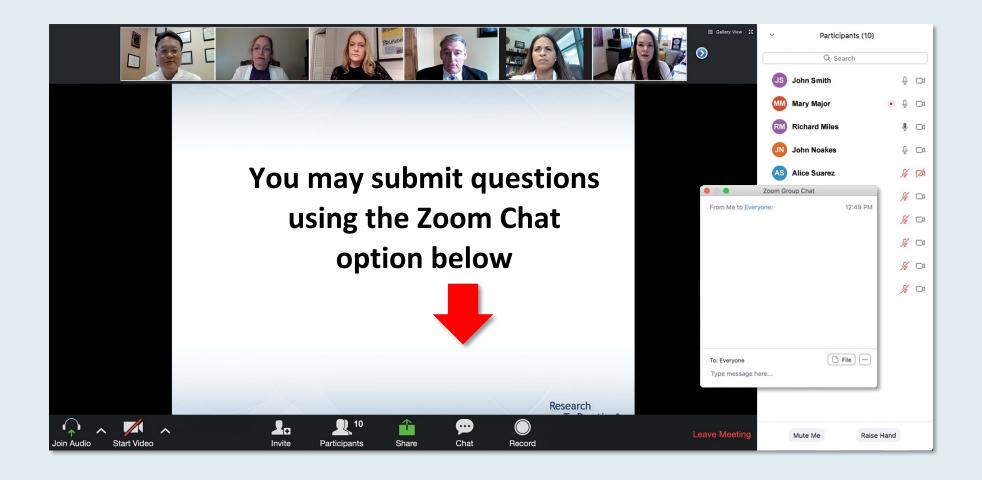
Moderator
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Research To Practice
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A Oliver Sartor, MD
Laborde Professor for Cancer Research
Medical Director, Tulane Cancer Center
Assistant Dean for Oncology
Tulane Medical School
New Orleans, Louisiana



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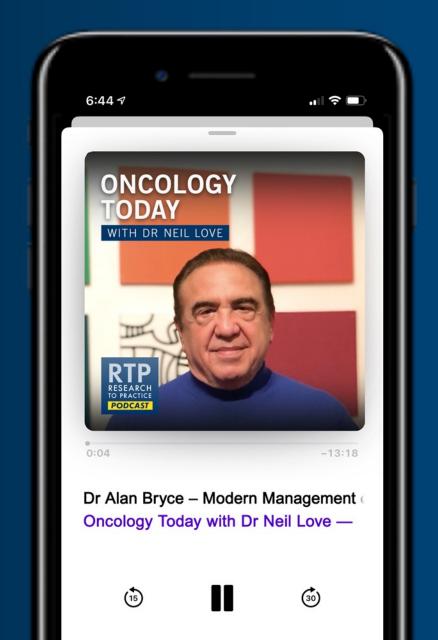


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Rohit Gosain, MD
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at UPMC Chautauqua
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Nataliya Mar, MD
University of California, Irvine
Irvine, California



Sulfi Ibrahim, MD Reid Health Richmond, Indiana



Helen H Moon, MD
Southern California Permanente
Medical Group
Riverside, California



Zanetta S Lamar, MD Florida Cancer Specialists and Research Institute Naples, Florida



Faculty for Second Opinion



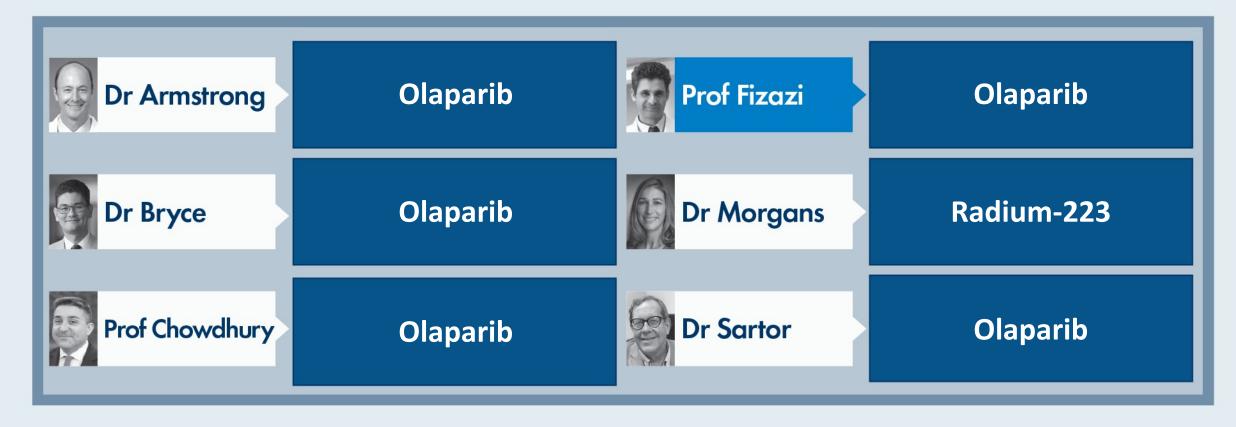
Simon Chowdhury, MD, PhD
Consultant Medical Oncologist
London, United Kingdom



A Oliver Sartor, MD
Laborde Professor for Cancer Research
Medical Director, Tulane Cancer Center
Assistant Dean for Oncology
Tulane Medical School
New Orleans, Louisiana



A 65-year-old man with MSS prostate cancer metastatic to the bone and a germline BRCA2 mutation who is receiving abiraterone/dexamethasone for hormone-sensitive metastatic disease develops new high-volume symptomatic bone metastases. Which systemic treatment would you most likely recommend?





Meet The Professor with Prof Fizazi

Introduction

MODULE 1: Journal Club with Prof Fizazi (Part 1)

MODULE 2: Case Presentations and Second Opinion

MODULE 3: Faculty Survey

MODULE 4: Immune Checkpoint Inhibitors in mCRPC

MODULE 5: Journal Club with Prof Fizazi (Part 2)

MODULE 6: Appendix



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Introduction



Positive Results Announced for the PROpel Phase III Trial of Olaparib with Abiraterone as First-Line Treatment for mCRPC

Press Release: September 24, 2021

"Positive high-level results from the PROpel Phase III trial showed that olaparib in combination with abiraterone demonstrated a statistically significant and clinically meaningful improvement in radiographic progression-free survival (rPFS) versus standard-of-care abiraterone as a 1st-line treatment for men with metastatic castration-resistant prostate cancer (mCRPC) with or without homologous recombination repair (HRR) gene mutations.

At a planned interim analysis, the Independent Data Monitoring Committee concluded that the trial met the primary endpoint of rPFS in men with mCRPC who had not received treatment in the 1st-line setting including with new hormonal agents or chemotherapy.

The data will be presented at an upcoming medical meeting."



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MODULE 6: Appendix



PSMA targeting in metastatic castration-resistant prostate cancer: where are we and where are we going?

Anne-Laure Giraudet, David Kryza, Michael Hofman, Aurélie Moreau, Karim Fizazi, Aude Flechon, Rodney J. Hicks and Ben Tran

Ther Adv Med Oncol

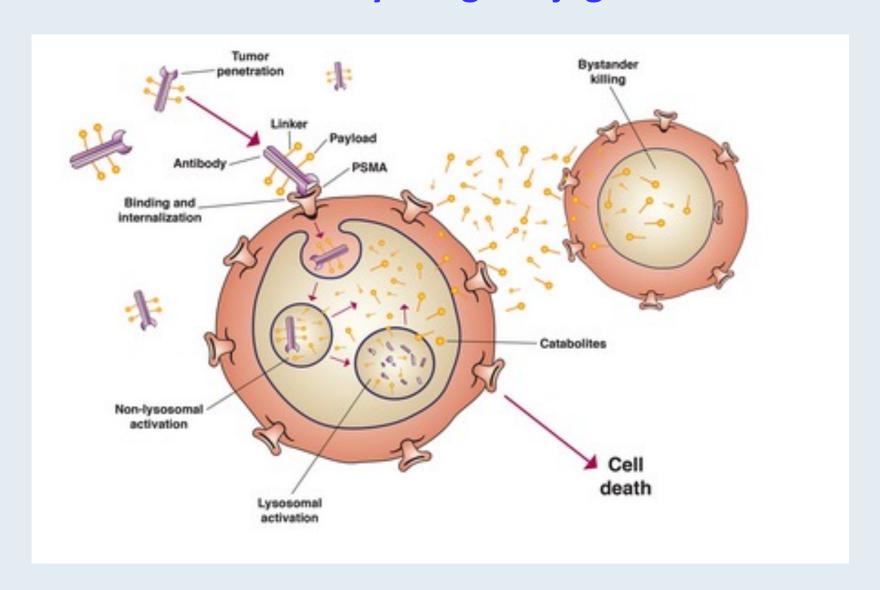
2021, Vol. 13: 1-14

DOI: 10.1177/ 17588359211053898

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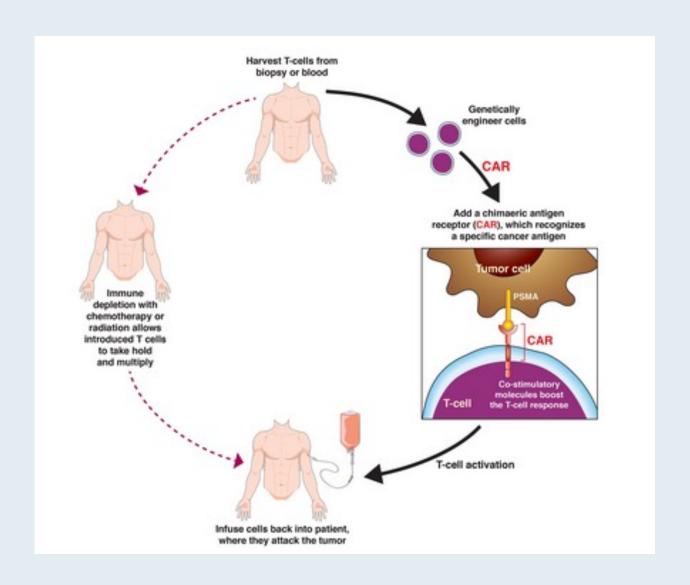


Antibody-Drug Conjugates



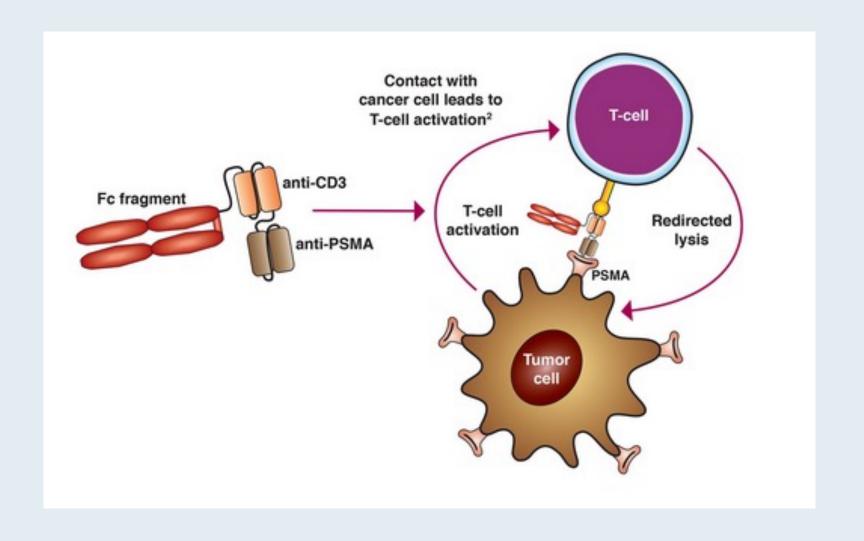


PSMA-Targeted CAR T-Cell Therapy





PSMA-Directed Bispecific T-Cell Engager





EUROPEAN UROLOGY 79 (2021) 519-529

available at www.sciencedirect.com journal homepage: www.europeanurology.com





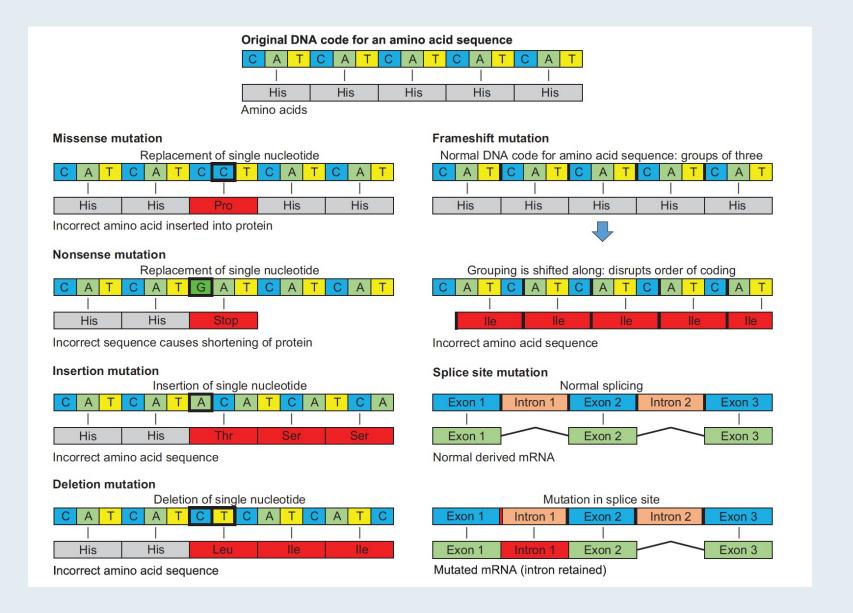
Review - Prostate Cancer

Genomic Testing in Patients with Metastatic Castration-resistant Prostate Cancer: A Pragmatic Guide for Clinicians

Axel S. Merseburger $a, \dagger, *$, Nick Waldron b, \dagger , Maria J. Ribal c, Axel Heidenreich d, Sven Perner e, f, Karim Fizazi d, Cora N. Sternberg d, Joaquin Mateo d, Manfred P. Wirth d, Elena Castro d, David Olmos d, Daniel P. Petrylak d, Simon Chowdhury d,

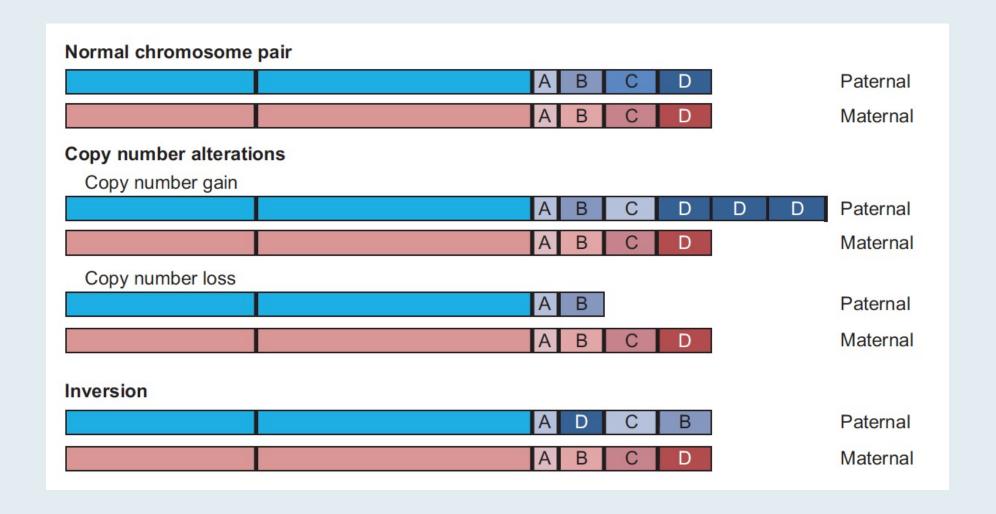


Overview of Common Gene Mutations





Overview of Common Large-Scale Alterations





Journal Club with Prof Fizazi – Part 1 (Continued)

- Tukachinsky H et al. **Genomic analysis of circulating tumor DNA in 3,334 patients with advanced prostate cancer identifies targetable BRCA alterations and AR resistance mechanisms.** Clin Cancer Res 2021;27(11):3094-105.
- Petrylak DP et al. **KEYNOTE-921: Phase III study of pembrolizumab plus docetaxel for metastatic castration-resistant prostate cancer.** *Future Oncol* 2021;17(25):3291-9.



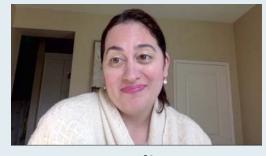
Meet The Professor with Prof Fizazi

MODULE 2: Case Presentations and Second Opinion

- Dr Mar: A 68-year-old man with metastatic hormone-sensitive prostate cancer
- Comments on the PEACE-1 Trial by Dr Sartor
- Dr Gosain: A 64-year-old man with mCRPC and a somatic BRCA2 mutation
- Second Opinion by Prof Chowdhury: A 67-year-old man with mCRPC and a germline BRCA2 mutation (Dr Lamar)
- Dr Sartor: A 75-year-old man with mCRPC and biallelic BRCA mutations
- Dr Sartor: A 65-year-old man with metastatic small cell prostate cancer
- Comments on the TheraP Trial by Dr Sartor



Case Presentation – Dr Mar: A 68-year-old man with metastatic hormone-sensitive prostate cancer



Dr Nataliya Mar

- Gleason 4 + 3 = 7 prostate cancer with PSA 9.5 ng/mL, s/p radical prostatectomy
- Post-operative PSA undetectable → 0.03 within 6 months → 0.05 → 0.08 ng/mL
- Restaging imaging: No evidence of metastatic disease
- Patient declined salvage RT and/or ADT
- PSA: 3.2 ng/mL within 18 months
- Restaging imaging: Two pulmonary nodules (largest, 1.4 cm), biopsy-proven prostate adenocarcinoma

Questions

- What treatment would you recommend?
- Would you recommend a second-generation antiandrogen, such as abiraterone, enzalutamide or apalutamide?



Comments on the PEACE-1 Trial



Dr A Oliver Sartor











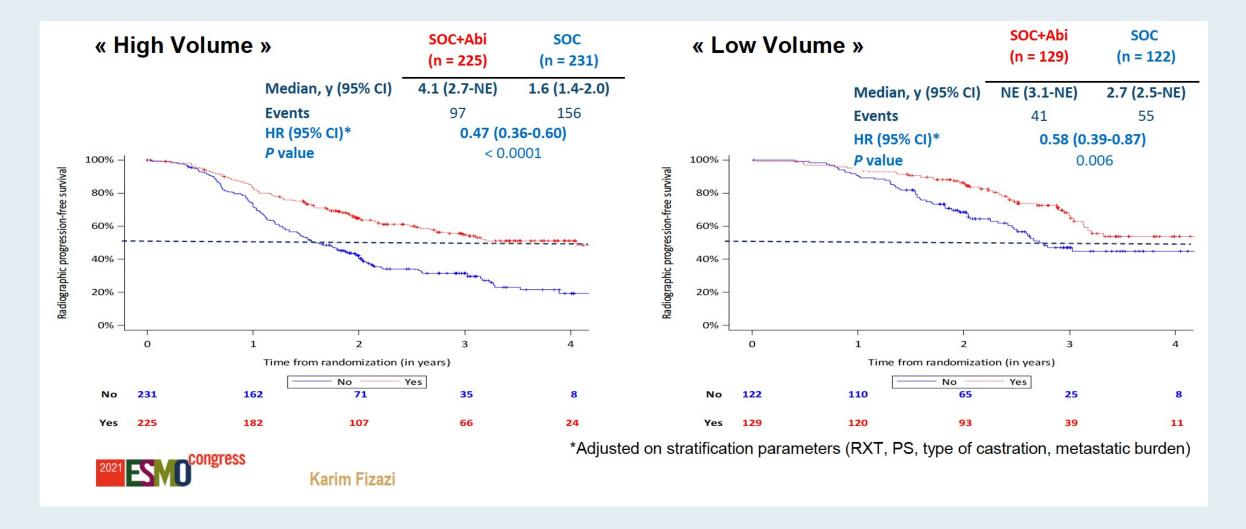
A phase 3 trial with a 2x2 factorial design in men with *de novo* metastatic castration-sensitive prostate cancer (mCSPC): Overall survival with abiraterone acetate plus prednisone in PEACE-1

Karim Fizazi, Joan Carles, Stéphanie Foulon, Guilhem Roubaud, Ray McDermott, Aude Fléchon, Bertrand Tombal, Stéphane Supiot, Dominik Berthold, Philippe Ronchin, Gabriel Kacsó, Gwenaëlle Gravis, Fabio Calabro, Jean-François Berdah, Ali Hasbini, Marlon Silva, Antoine Thiery-Vuillemin, Igor Latorzeff, Isabelle Rieger, Alberto Bossi





PEACE-1: Radiographic PFS (rPFS) by Metastatic Burden





PEACE-1: Grade 3-5 Adverse Events (ADT + Docetaxel Safety Population)

Toxicity, n (%)	SOC (+/- RXT) + Abiraterone (n=346)	SOC (+/- RXT) (n=350)
Neutropenia	34 (10)	32 (9)
Febrile neutropenia	18 (5)	19 (5)
Liver	20 (6)	2 (1)
Hypertension	76 (22)	45 (13)
Hypokalemia	11 (3)	1 (0)
Cardiac	6 (2)	5 (1)
Fatigue	10 (3)	15 (4)
Gastro-intestinal	14 (4)	18 (5)
Grade 5	7 (2)	3 (1)



Dr Moon: 2 patients with prostate cancer who received a PARP inhibitor

Dr Helen Moon

- Prostate cancer is one of the solid cancers that right out of the gate we try to subtype – Is it BRCA1 or BRCA2?
- Are they treated differently?
- What about ATM? PTEN?
- Will prostate cancer ever become a disease where precision medicine is the norm?



Case Presentation – Dr Gosain: A 64-year-old man with mCRPC and a somatic BRCA2 mutation



Dr Rohit Gosain

- 2018: Undergoing monitoring for a biochemical recurrence 3 years s/p prostatectomy for Gleason 4 + 4 prostate cancer
- 2019: Leuprolide + abiraterone + prednisone initiated due to PSADT <10 months
- Repeated disease progression noted in the bone, lymph nodes and liver in response to treatment with enzalutamide, docetaxel and cabazitaxel
- NGS testing: Somatic BRCA2 mutation
- Olaparib, with anemia → Dose reduced from 300 mg BID to 200 mg BID to 100 mg BID

Questions

- What is the responsiveness to PARP inhibitors in terms of germline versus somatic mutations? Are PARP inhibitors more responsive to certain mutations?
- What is your approach to dose-reducing PARP inhibitors for patients experiencing anemia?
 Would you use an alternate schedule instead of dose-reducing?



Second Opinion by Prof Chowdhury: A 67-year-old man with mCRPC and a germline BRCA2 mutation (Dr Lamar)







Prof Simon Chowdhury

- Sister died of ovarian cancer; patient and 4 offspring test positive for BRCA2 mutation
- 2005: Prostate cancer s/p prostatectomy, leuprolide/bicalutamide
- 2018: Abiraterone/prednisone
- 2019: Bone metastases
- Olaparib x 9 months → PSA increase
 - Depression
 - Severe fatigue addressed via dose adjustments



Case Presentation – Dr Sartor: A 75-year-old man with mCRPC and biallelic BRCA mutations

- Hormone-sensitive metastatic prostate cancer
- Germline BRCA2 mutation and second-hit BRCA mutation (biallelic)
- ADT/abiraterone
- Develops high-volume, symptomatic bone metastases
- Olaparib, alternating between 300 mg BID and QD



Dr Oliver Sartor



Case Presentation – Dr Sartor: A 65-year-old man with metastatic neuroendocrine prostate cancer

- Presents with high-volume, de novo metastatic prostate cancer, PSA 650 ng/mL
- Somatic BRCA2 mutation
- ADT/abiraterone → Recurs with urinary issues
- Biopsy: Small cell recurrence in the neck of the bladder, PSA 0.5 ng/mL
- Carboplatin/VP-16 + atezolizumab



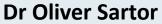
Dr Oliver Sartor



VISION trial of ¹⁷⁷Lu-PSMA-617 for mCRPC

- Expected FDA approval of lutetium-177-PSMA-617 in 2022
- Large magnitude of benefit in the Phase III VISION trial in mCRPC
- Is 6 cycles necessary, or is 3-4 cycles sufficient?
- PSMA expression in salivary and lacrimal glands and the possibility of ¹⁷⁷Lu-PSMA-617-associated xerostomia



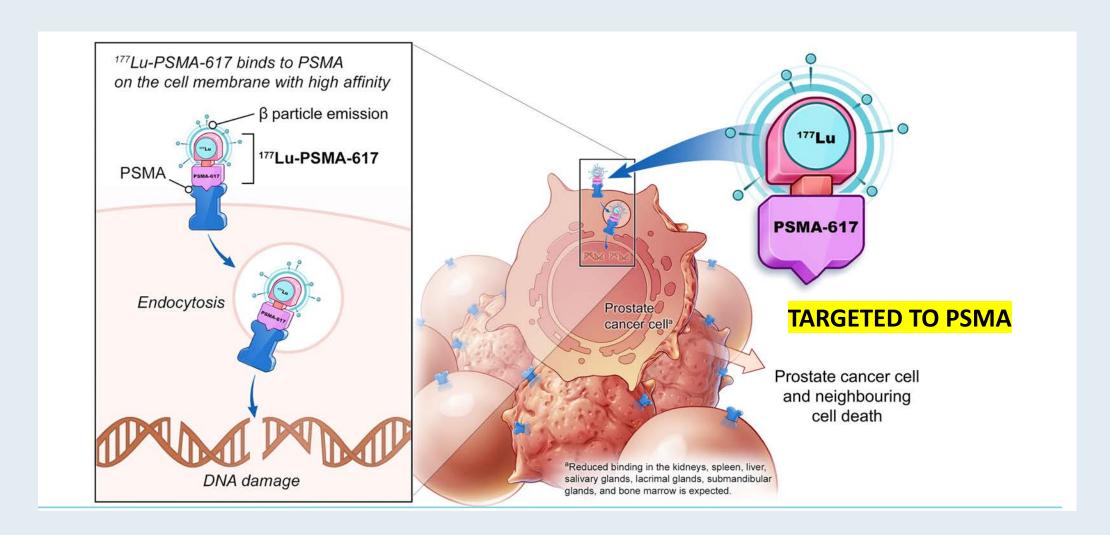




Prof Simon Chowdhury



¹⁷⁷Lu-PSMA-617: Mechanism of Action





N Engl J Med 2021;385:1091-103

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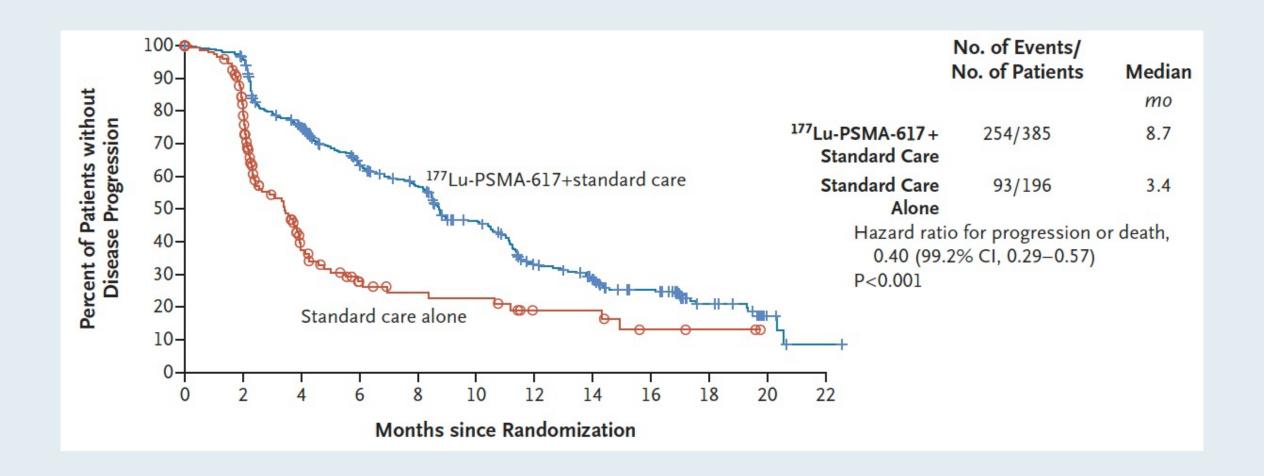
ORIGINAL ARTICLE

Lutetium-177–PSMA-617 for Metastatic Castration-Resistant Prostate Cancer

O. Sartor, J. de Bono, K.N. Chi, K. Fizazi, K. Herrmann, K. Rahbar, S.T. Tagawa, L.T. Nordquist, N. Vaishampayan, G. El-Haddad, C.H. Park, T.M. Beer, A. Armour, W.J. Pérez-Contreras, M. DeSilvio, E. Kpamegan, G. Gericke, R.A. Messmann, M.J. Morris, and B.J. Krause, for the VISION Investigators*

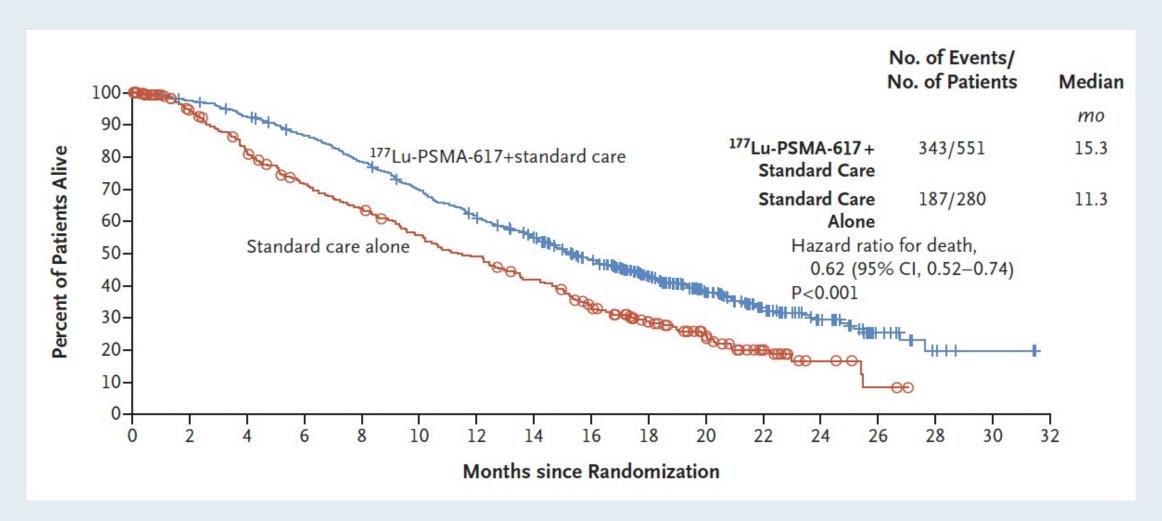


VISION: Imaging-Based Progression-Free Survival



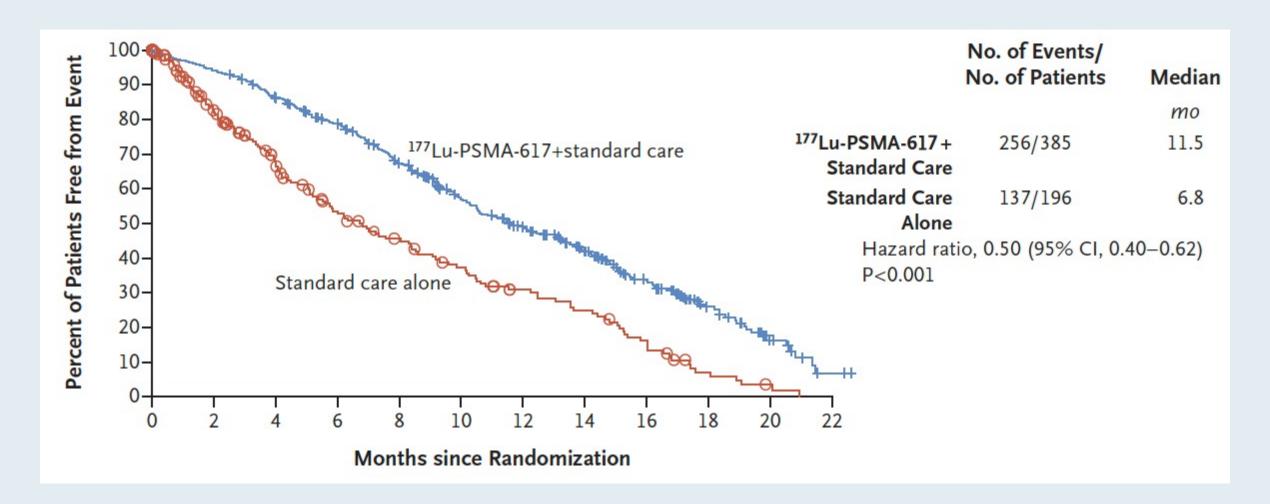


VISION: Overall Survival





VISION: Time to First Symptomatic Skeletal Event





VISION: Selected Adverse Events

Event	¹⁷⁷ Lu-PSMA-617 plus Standard Care (N = 529)		Standard Care Alone (N = 205)			
	All Grades	Grade ≥3	All Grades	Grade ≥3		
	number of patients (percent)					
Any adverse event	519 (98.1)	279 (52.7)	170 (82.9)	78 (38.0)		
Fatigue	228 (43.1)	31 (5.9)	47 (22.9)	3 (1.5)		
Thrombocytopenia	91 (17.2)	42 (7.9)	9 (4.4)	2 (1.0)		
Lymphopenia	75 (14.2)	41 (7.8)	8 (3.9)	1 (0.5)		
Leukopenia	66 (12.5)	13 (2.5)	4 (2.0)	1 (0.5)		
Adverse event that led to reduction in ¹⁷⁷ Lu-PSMA-617 dose	30 (5.7)	10 (1.9)	NA	NA		
Adverse event that led to interruption of ¹⁷⁷ Lu-PSMA-617†	85 (16.1)	42 (7.9)	NA	NA		
Adverse event that led to discontinuation of ¹⁷⁷ Lu-PSMA-617†	63 (11.9)	37 (7.0)	NA	NA		
Adverse event that led to death‡	19 (3.6)	19 (3.6)	6 (2.9)	6 (2.9)		



177Lu-PSMA-617 (LuPSMA) versus Cabazitaxel in Metastatic Castration-Resistant Prostate Cancer (mCRPC) Progressing After Docetaxel: Updated Results Including Progression-Free Survival (PFS) and Patient-Reported Outcomes (PROs) (TheraP ANZUP 1603)¹

[177Lu]Lu-PSMA-617 versus cabazitaxel in patients with metastatic castration-resistant prostate cancer (TheraP): a randomised, open-label, phase 2 trial ²

Michael S Hofman, Louise Emmett, Shahneen Sandhu, Amir Iravani, Anthony M Joshua, Jeffrey C Goh, David A Pattison, Thean Hsiang Tan, Ian D Kirkwood, Siobhan Ng, Roslyn J Francis, Craig Gedye, Natalie K Rutherford, Andrew Weickhardt, Andrew M Scott, Sze-Ting Lee, Edmond M Kwan, Arun A Azad, Shakher Ramdave, Andrew D Redfern, William Macdonald, Alex Guminski, Edward Hsiao, Wei Chua, Peter Lin, Alison Y Zhang, Margaret M McJannett, Martin R Stockler, John A Violet*, Scott G Williams, Andrew J Martin, Ian D Davis, for the TheraP Trial Investigators and the Australian and New Zealand Urogenital and Prostate Cancer Trials Group†

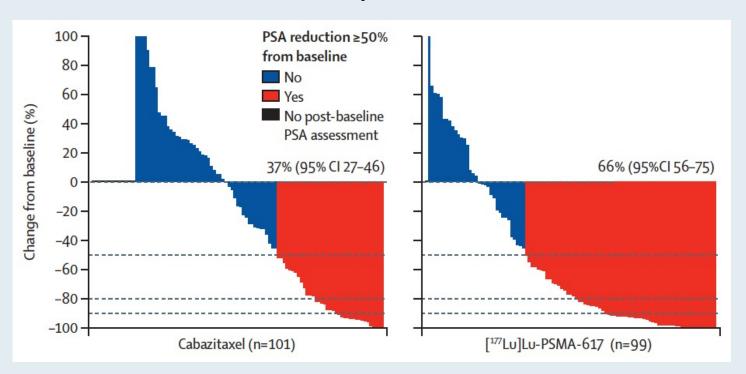


¹ Hofman MS et al. Genitourinary Cancers Symposium 2021; Abstract 6.

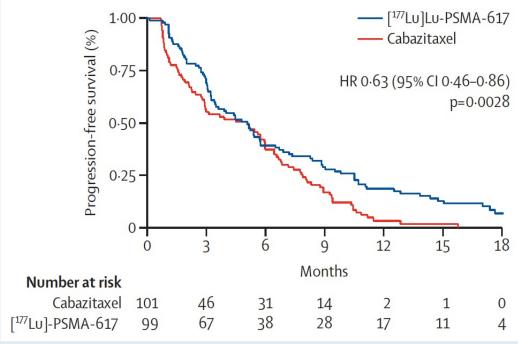
² Hofman MS et al. *Lancet* 2021;397(10276):797-804.

TheraP ANZUP 1603: PSA Response and PFS

PSA response



Radiographic or PSA progression-free survival





TheraP ANZUP 1603: Adverse Events

	[¹⁷⁷ Lu]Lu-PSMA-617 (n=98)		Cabazitaxe (n=85)	I
	Grade 1-2	Grade 3-4	Grade 1-2	Grade 3-4
Fatigue	69 (70%)	5 (5%)	61 (72%)	3 (4%)
Pain*	60 (61%)	11 (11%)	52 (61%)	4 (5%)
Dry mouth	59 (60%)	0	18 (21%)	0
Diarrhoea	18 (18%)	1 (1%)	44 (52%)	4 (5%)
Nausea	39 (40%)	1 (1%)	29 (34%)	0
Thrombocytopenia	18 (18%)	11 (11%)	4 (5%)	0
Dry eyes	29 (30%)	0	3 (4%)	0
Anaemia	19 (19%)	8 (8%)	11 (13%)	7 (8%)
Neuropathy†	10 (10%)	0	22 (26%)	1 (1%)
Dysgeusia	12 (12%)	0	23 (27%)	0
Haematuria	3 (3%)	1 (1%)	12 (14%)	5 (6%)
Neutropenia‡	7 (7%)	4 (4%)	4 (5%)	11 (13%)
Insomnia	9 (9%)	0	12 (14%)	1 (1%)
Vomiting	12 (12%)	1 (1%)	10 (12%)	2 (2%)
Dizziness	4 (4%)	0	11 (13%)	0
Leukopenia	10 (10%)	1 (1%)	5 (6%)	1 (1%)
Any adverse event	53 (54%)	32 (33%)	34 (40%)	45 (53%)



Comments on the TheraP Trial



Dr Oliver Sartor



Meet The Professor with Prof Fizazi

Introduction

MODULE 1: Journal Club with Prof Fizazi (Part 1)

MODULE 2: Case Presentations and Second Opinion

MODULE 3: Faculty Survey

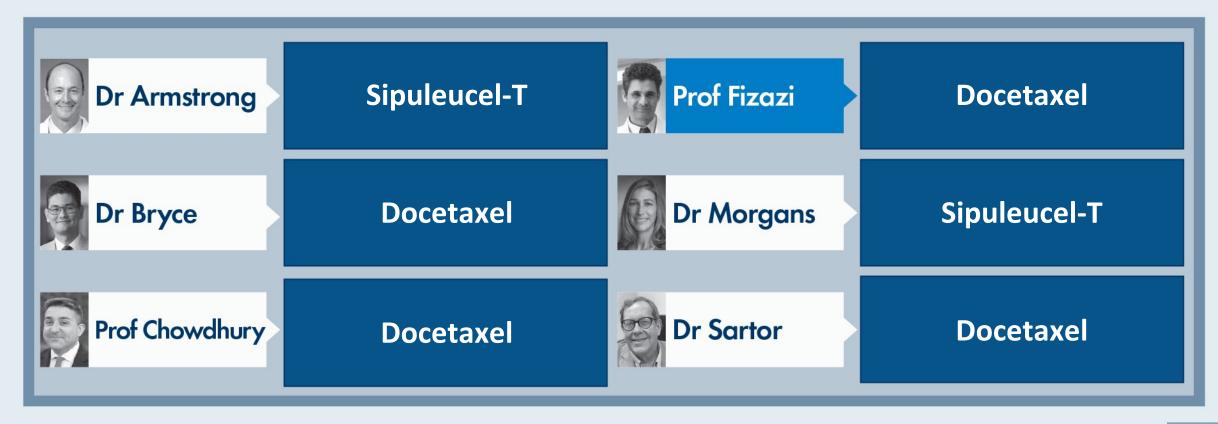
MODULE 4: Immune Checkpoint Inhibitors in mCRPC

MODULE 5: Journal Club with Prof Fizazi (Part 2)

MODULE 6: Appendix

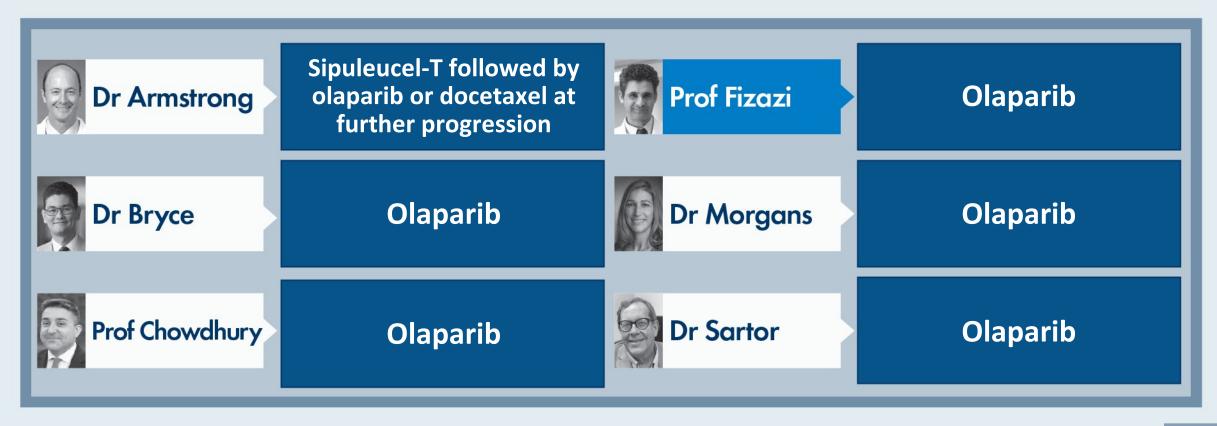


A 65-year-old man with BRCA wild-type, MSS prostate cancer metastatic to the bone who is receiving <u>abiraterone/dexamethasone</u> for hormone-sensitive metastatic disease develops new <u>low-volume</u> asymptomatic bone metastases. Which systemic treatment would you most likely recommend?





A 65-year-old man with MSS prostate cancer metastatic to the bone and a germline BRCA2 mutation who is receiving abiraterone/dexamethasone for hormone-sensitive metastatic disease develops new low-volume asymptomatic bone metastases. Which systemic treatment would you most likely recommend?



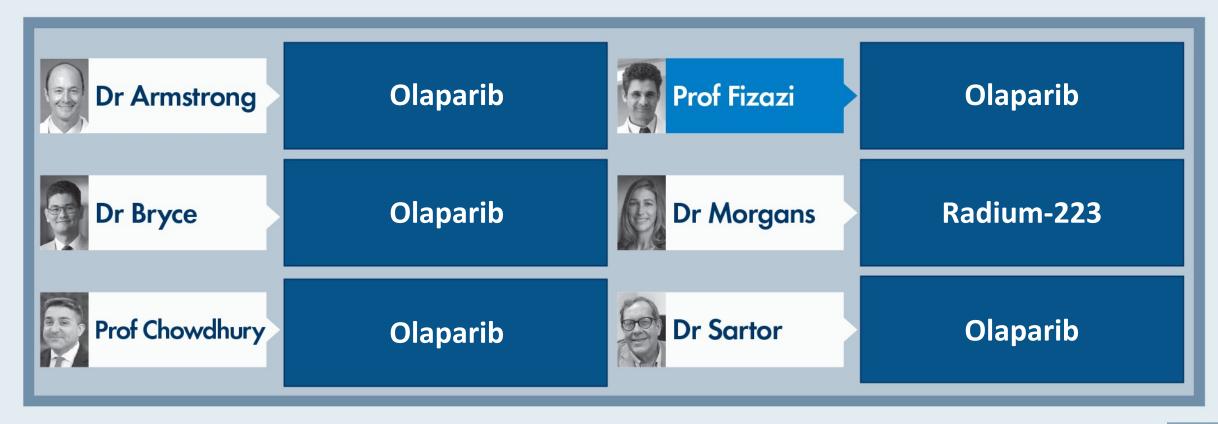


A 65-year-old man with BRCA wild-type, MSS prostate cancer metastatic to the bone who is receiving <u>abiraterone/dexamethasone</u> for hormone-sensitive metastatic disease develops new <u>high-volume</u> symptomatic bone metastases. Which systemic treatment would you most likely recommend?



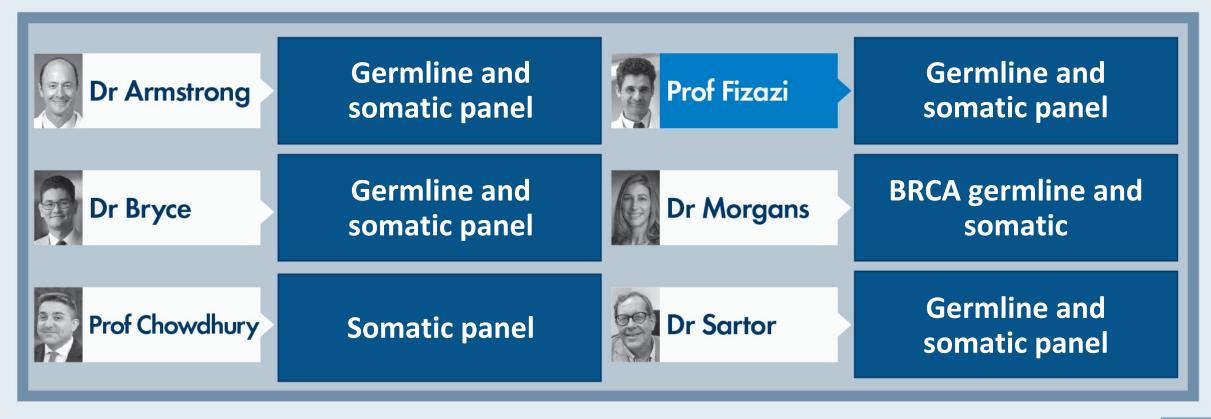


A 65-year-old man with MSS prostate cancer metastatic to the bone and a germline BRCA2 mutation who is receiving abiraterone/dexamethasone for hormone-sensitive metastatic disease develops new high-volume symptomatic bone metastases. Which systemic treatment would you most likely recommend?





Which of the following genomic evaluations do you generally order for patients with mCRPC and no specific family history of cancer?





At what point, if any, do you generally recommend a PARP inhibitor to a patient with metastatic prostate cancer and a germline BRCA mutation?



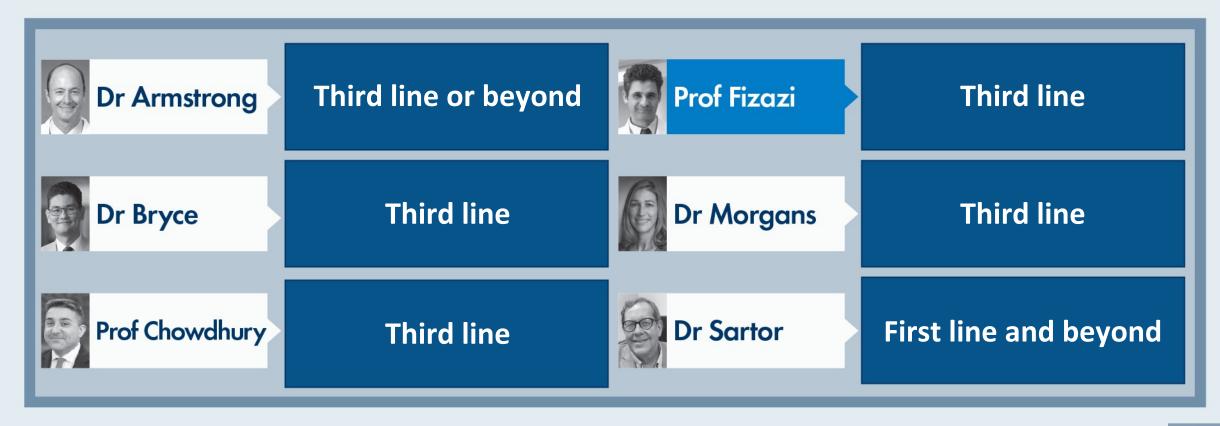


For a patient with metastatic prostate cancer and a germline BRCA mutation to whom you would administer a PARP inhibitor, which treatment strategy would you likely use?





Regulatory and reimbursement issues aside, in which line of therapy would you administer 177Lu-PSMA-617 for patients with metastatic prostate cancer?





Meet The Professor with Prof Fizazi

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Immune Checkpoint Inhibitors in mCRPC

Therapy	Disease State	Disease Response
Pembrolizumab monotherapy ^a	Post-chemotherapy	ORR 9% PSA RR 14%
Pembrolizumab + enzalutamide ^b	Pre-chemotherapy progressing on enzalutamide	ORR 12% PSA RR 14%
Atezolizumab + enzalutamide ^c	Pre- and post-chemotherapy, s/p abiraterone	ORR 14% PSA RR 26%
Atezolizumab + cabozantinib ^d	Pre-chemotherapy s/p enzalutamide or abiraterone	ORR 34% PSA RR 29%





Abstract LBA24

Cabozantinib in combination with atezolizumab in patients with metastatic castration-resistant prostate cancer (mCRPC): results of expanded cohort 6 of the COSMIC-021 Study

Neeraj Agarwal, ¹ Bradley McGregor, ² Benjamin L. Maughan, ¹ Tanya B. Dorff, ³ William Kelly, ⁴ Bruno Fang, ⁵ Rana R. McKay, ⁶ Parminder Singh, ⁷ Lance Pagliaro, ⁸ Robert Dreicer, ⁹ Sandy Srinivas, ¹⁰ Yohann Loriot, ¹¹ Ulka Vaishampayan, ¹² Sanjay Goel, ¹³ Dominic Curran, ¹⁴ Ashok Panneerselvam, ¹⁴ Li-Fen Liu, ¹⁴ Toni K. Choueiri, ^{2*} Sumanta Pal^{3*}

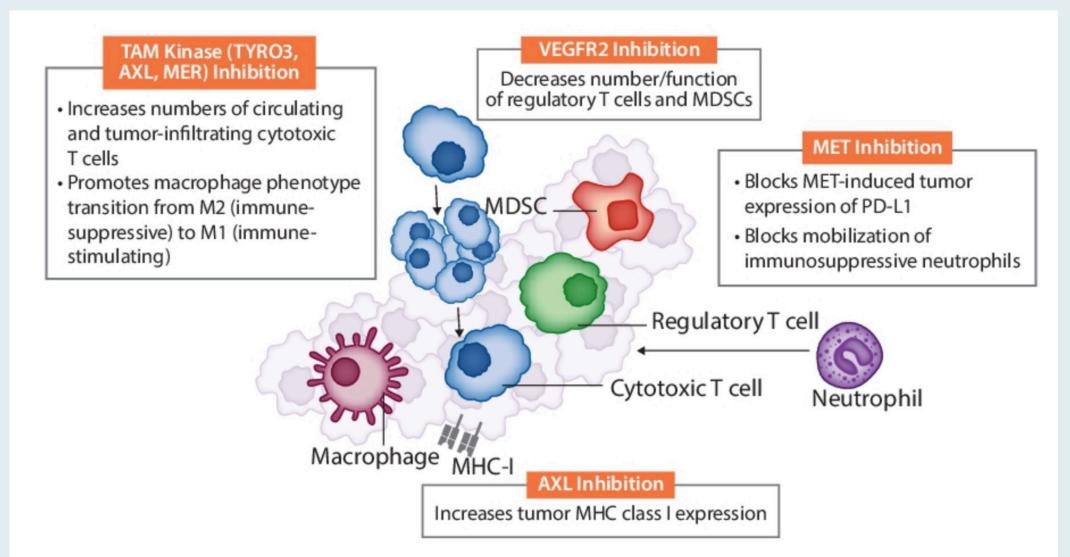
¹Huntsman Cancer Institute, University of Utah, Salt Lake City, UT, USA; ²Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, USA; ³City of Hope Comprehensive Cancer Center, Duarte, CA, USA; ⁴Sidney Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, USA; ⁵Regional Cancer Care Associates, East Brunswick, NJ, USA; ⁶University of California San Diego, San Diego, CA, USA; ⁷Department of Oncology, Mayo Clinic, Scottsdale, AZ, USA; ⁸Department of Oncology, Mayo Clinic, Rochester, MN, USA; ⁹University of Virginia Cancer Center, Charlottesville, VA, USA; ¹⁰Division of Medical Oncology, Stanford University Medical Center, Stanford, CA, USA; ¹¹Department of Cancer Medicine, Gustave Roussy Institute, INSERM 981, University Paris-Saclay, Villejuif, France; ¹²Karmanos Cancer Center, Wayne State University, Detroit, MI, USA (Current affiliation: Division of Hematology/Oncology, University of Michigan, Ann Arbor, MI, USA); ¹³Department of Medical Oncology, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, USA; ¹⁴Exelixis, Inc., Alameda, CA, USA





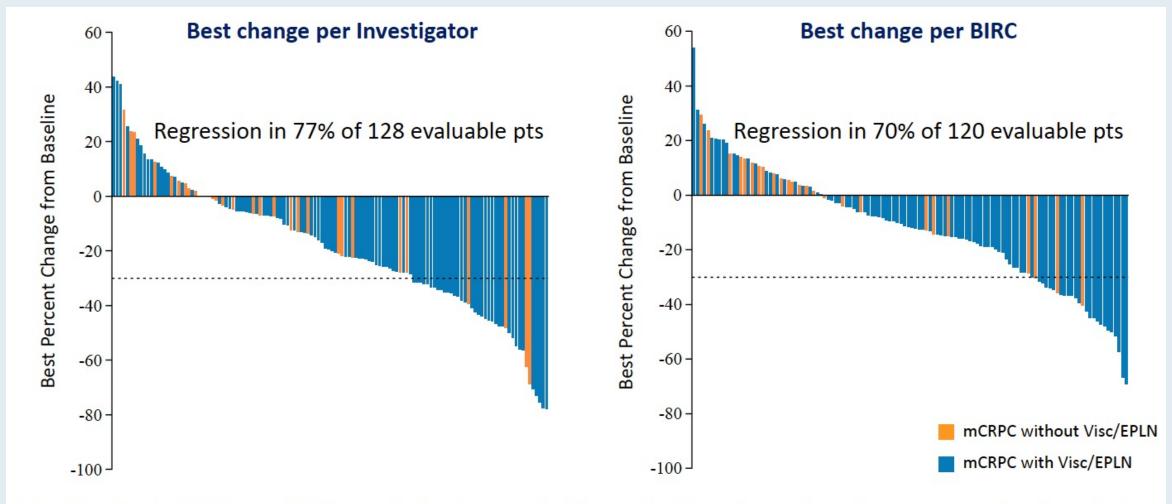
^{*}Co-senior authors

Cabozantinib Targets Pathways Associated with Tumor Immune Suppression





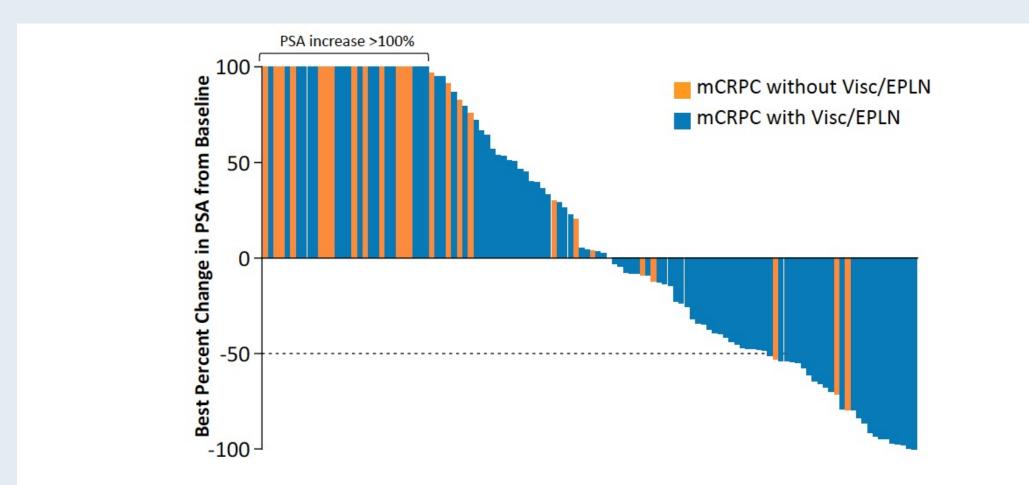
COSMIC-021: Best Change from Baseline in Sum of Target Lesions



Evaluable patients (pts) had measurable disease and at least one post-baseline scan; the three patients with complete responses per investigator had lymph node metastases as target lesions.



COSMIC-021: Best Change in PSA from Baseline



- In 118 patients with post-baseline assessments, 55 (47%) had a decrease in PSA, and 27 (23%) had a decrease ≥50%
- In 92 patients with Visc/EPLN, 50 (54%) had a decrease in PSA, and 24 (26%) had a decrease ≥50%



COSMIC-021: Select Treatment-Related Adverse Events

	mCRPC	C (N=132)
	Any Grade	Grade 3/4
Any AE, %	95	55
Diarrhea	55	6.8
Fatigue	43	6.8
Nausea	42	0.8
Decreased appetite	34	1.5
Dysgeusia	27	0
Palmar-plantar erythrodysesthesia	25	2.3
Vomiting	23	1.5
Weight decreased	23	1.5
Aspartate aminotransferase increased	20	3.0
Stomatitis	16	0.8
Hypertension	14	6.8
Alanine aminotransferase increased	14	3
Dysphonia	13	0
Hypothyroidism	12	0
Pulmonary embolism	11	8.3



CONTACT-02: Phase III Trial Schema

mCRPC (N ~580) - Prior treatment with

one NHT

- Measurable visceral disease or measurable extrapelvic adenopathy
- PSA progression and/or soft-tissue disease progression
- ECOG PS 0 or 1

Cabozantinib + Atezolizumab Cabozantinib 40 mg PO QD Atezolizumab 1200 mg IV Q3W

Second NHT*
Enzalutamide 160 mg PO QD

OR

Abiraterone 1000 mg PO QD + Prednisone 5 mg PO BID

Tumor assessment every 9 weeks (RECIST v1.1)[†]

Treatment until loss of clinical benefit[‡] or intolerable toxicity

Primary Endpoints:

- PFS per RECIST v1.1 by BIRC
- OS

Secondary Endpoint:

ORR per RECIST v1.1 by BIRC

Stratification

R_{1:1}

- Liver metastasis (yes, no)
- Prior docetaxel treatment for mCSPC (yes, no)
- Disease stage for which the first NHT was given (mCSPC, M0 CRPC, mCRPC)



^{*}Second NHT must differ from previous NHT taken

Tumor assessment (RECIST v1.1) every 9 weeks for the first 28 weeks then every 12 weeks thereafter

[‡]Patients may be treated beyond progression if there is a clinical benefit in the opinion of the investigator

PRINCE: Interim Analysis of the Phase Ib Study of ¹⁷⁷Lu-PSMA-617 in Combination with Pembrolizumab for Metastatic Castration Resistant Prostate Cancer (mCRPC)

Shahneen Sandhu, Anthony M. Joshua, Louise Emmett, Lavinia Spain, Lisa G. Horvath, Megan Crumbaker, Arsha Anton, Roslyn Wallace, Anupama Pasam, Mathias Bressel, Erin Cassidy, Patricia Banks, Aravind Ravi Kumar, Ramin Alipour, Tim Akhurst, Grace Kong, Ian D. Davis, Scott Williams, Rod Hicks, Michael S. Hofman

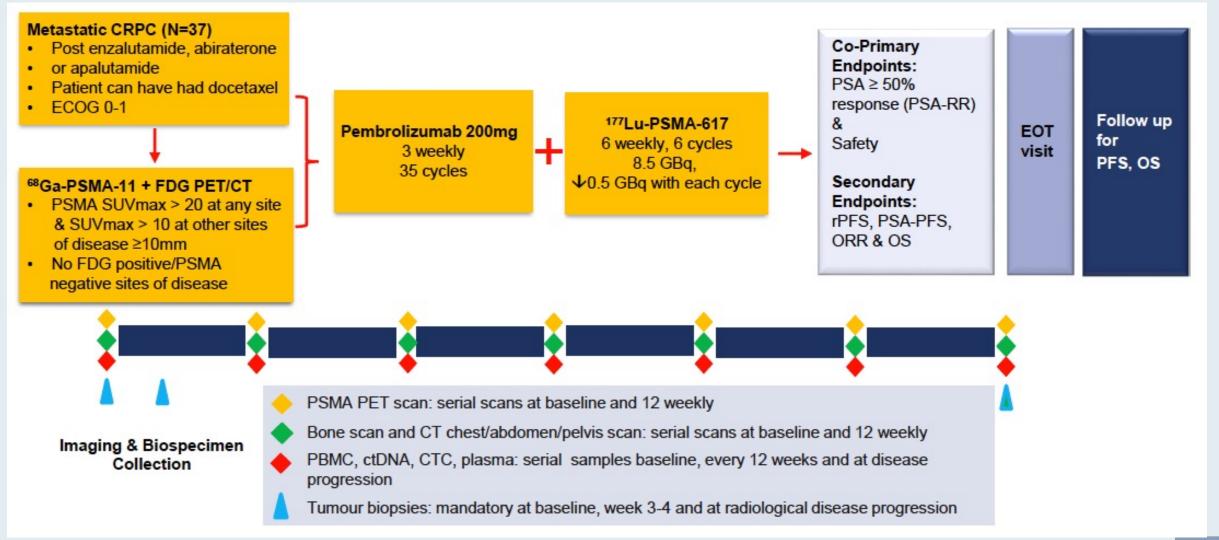
Abstract 5770



Presented by: Shahneen Sandhu

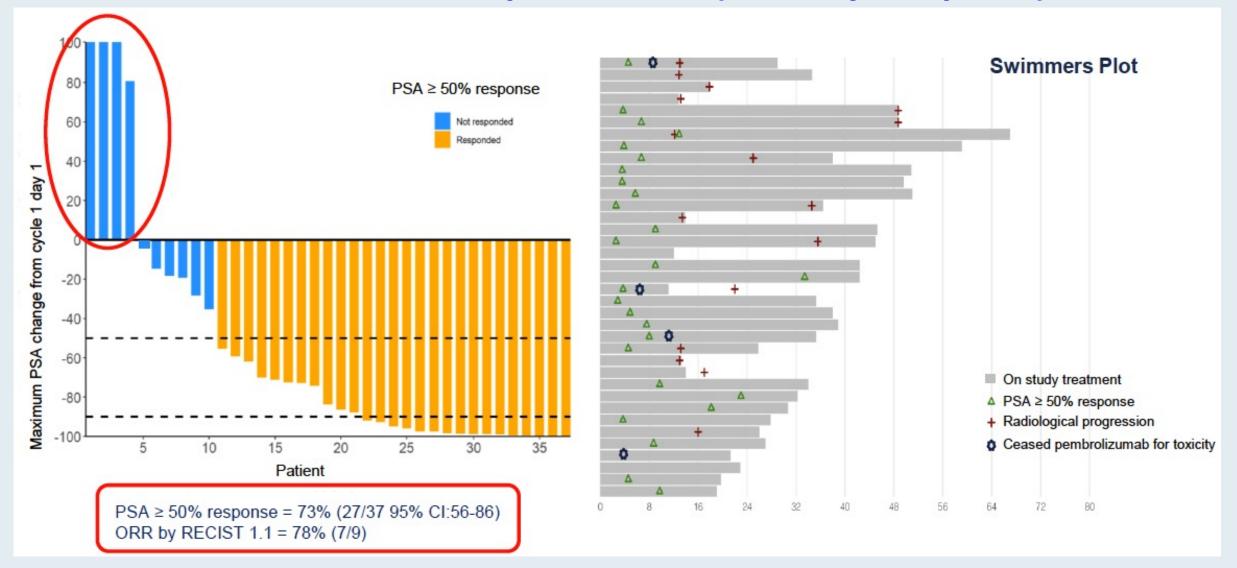


PSMA-Lutetium Radionuclide Therapy and ImmuNotherapy for Prostate CancEr (PRINCE) Trial Schema





PRINCE: PSA Response Rate (Primary Endpoint)





PRINCE: Treatment-Related Adverse Events

TRAE term	Grade 1 (%)	Grade 2 (%)	Grade 3 (%)	N=37 (%)
Xerostomia	21 (57%)	7 (19%)	15	28 (76%)
Fatigue	11 (29 %)	3 (8%)	2 (5%)	16 (43%)
Rash	5 (14%)	4 (11%)		9 (25%)
Nausea	8 (21%)	1 (3%)	_	9 (24%)
Pruritis	6 (16%)	1 (3%)	-	7 (19%)
Anorexia	3 (8%)	3 (8%)	-	6 (16%)
Thrombocytopenia	4 (11%)	1(3%)	1.17	5 (14%)
Bone pain (flare)	4 (11%)	-	-	4 (11%)
Aspartate aminotransferase elevation	2 (5%)	2 (5%)	1-	4 (11%)
Dry eye	3 (8%)	-	-	3 (8%)
Dysgeusia	2 (5%)	1 (3%)	-	3 (8%)
Weight loss	2 (5%)	1 (3%)		3 (8%)
Anemia	-	2 (5%)	1(3%)	3 (8%)
Alanine aminotransferase elevation	2 (5%)	1(3%)	-	3 (8%)
Amylase elevation	1 (3%)	1 (3%)	1 (3%)	3 (8%)
Arthralgia	3 (8%)	-	-	3 (8%)
Neutropenia	1 (3%)	-	1-	1 (3%)

Pembrolizumab cycles: Median (range)	8 (1 - 22)
¹⁷⁷ Lu-PSMA-617 cycles: Median (range)	4 (2 - 6)
Discontinuation for toxicity: Pembrolizumab, n (%) ¹⁷⁷ Lu-PSMA-617, n (%)	4 (11%) 0 (0%)

- Treatment related adverse events (TRAEs) in by worst grade affecting > 5% and all hematological toxicity
- . There were no grade 4 TRAEs or treatment related deaths



Meet The Professor with Prof Fizazi

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MODULE 5: Journal Club with Prof Fizazi (Part 2)

MODULE 6: Appendix



Journal Club with Prof Fizazi (Part 2)

- Sternberg CN et al. Efficacy and safety of cabazitaxel versus abiraterone or enzalutamide in older patients with metastatic castration-resistant prostate cancer in the CARD study. Eur Urol 2021;80(4):497-506.
- Aldea M et al. Cabazitaxel activity in men with metastatic castration-resistant prostate cancer with and without DNA damage repair defects. Eur J Cancer 2021;159:87-97.
- Baciarello G et al. Patient preference between cabazitaxel and docetaxel for first-line chemotherapy in metastatic castration-resistant prostate cancer: The CABADOC trial. Eur Urol 2021;[Online ahead of print].
- Fizazi K et al. Radium-223 (Ra-223) versus novel antihormone therapy (NAH) for progressive metastatic castration-resistant prostate cancer (mCRPC) after 1 line of NAH: RADIANT, an international phase 4, randomized, open-label study. ASCO 2021; Abstract TPS5093.

Journal Club with Prof Fizazi (Part 2 Continued)

- Agarwal N et al. TALAPRO-2: A phase 3 randomized study of enzalutamide (ENZA) plus talazoparib (TALA) versus placebo in patients with new metastatic castrationresistant prostate cancer (mCRPC). ASCO 2021; Abstract TPS5089.
- de Bono JS et al. **Talazoparib monotherapy in metastatic castration-resistant prostate cancer with DNA repair alterations (TALAPRO-1): An open-label, phase 2 trial.** *Lancet Oncol* 2021;22(9):1250-64.
- Loehr A et al. Response to rucaparib in BRCA-mutant metastatic castration-resistant prostate cancer identified by genomic testing in the TRITON2 study. Clin Cancer Res 2021;27(24):6677-86.



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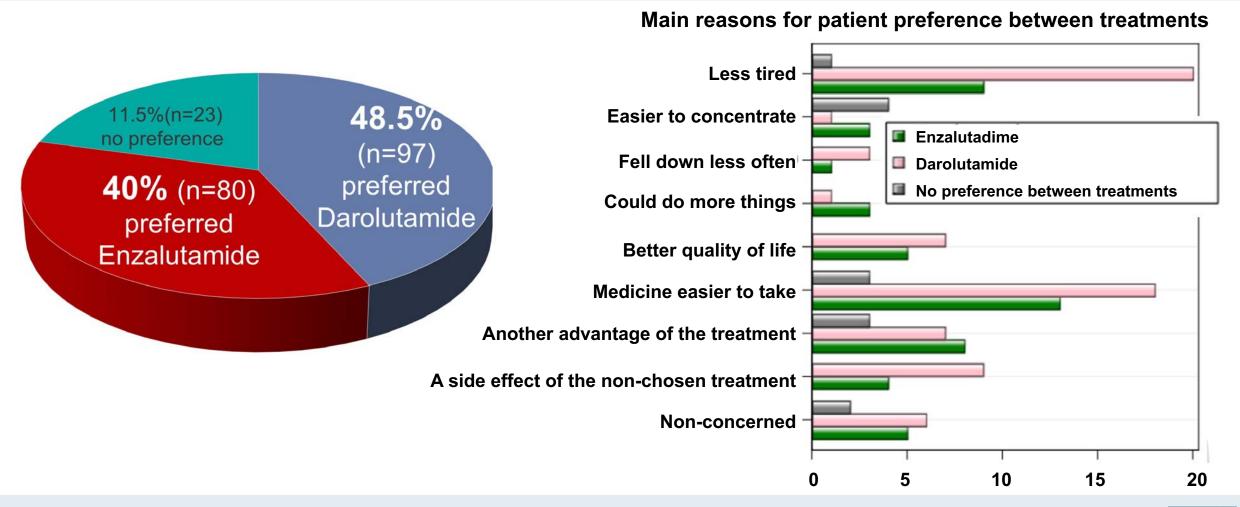
MODULE 4: Immune Checkpoint Inhibitors in mCRPC

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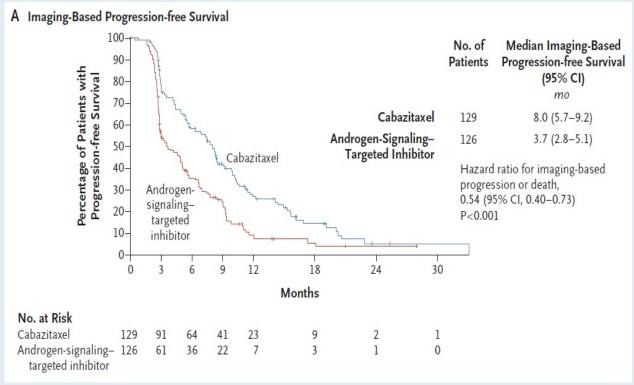


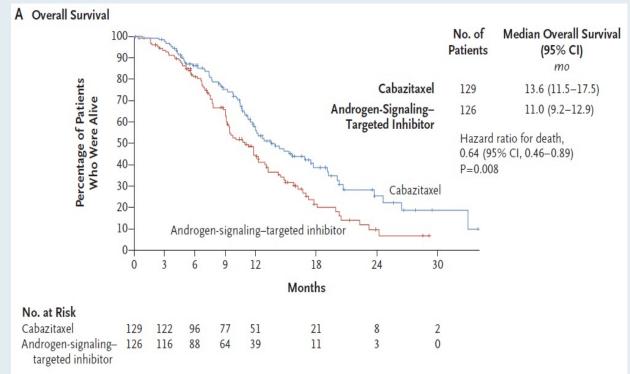
ODENZA: A Phase II Crossover Trial Evaluating Preference Between Darolutamide and Enzalutamide in Men with Asymptomatic or Mildly Symptomatic mCRPC





CARD: Imaging-Based PFS and OS with Cabazitaxel versus Abiraterone or Enzalutamide for mCRPC







CARD: Select Adverse Events

Event		zitaxel 126)	Androgen-Signaling-Targeted Inhibitor (N = 124)		
	Any Grade	Grade ≥3	Any Grade	Grade ≥3	
Any adverse event — no. (%)	124 (98.4)	(<u>22</u> 0	117 (94.4)	_	
Any grade ≥3 adverse event — no. (%)		71 (56.3)	 -	65 (52.4)	
Any serious adverse event — no. (%)	49 (38.9)		48 (38.7)	_	
Any adverse event leading to permanent discontinuation of treatment — no. (%)	25 (19.8)	-	11 (8.9)	-	
Any adverse event leading to death — no. (%)*	7 (5.6)	_	14 (11.3)	_	
Common adverse events — no. (%)†					
Asthenia or fatigue	67 (53.2)	5 (4.0)	45 (36.3)	3 (2.4)	
Diarrhea	50 (39.7)	4 (3.2)	8 (6.5)	0	
Infection	40 (31.7)	10 (7.9)	25 (20.2)	9 (7.3)	
Musculoskeletal pain or discomfort‡	34 (27.0)	2 (1.6)	49 (39.5)	7 (5.6)	
Nausea or vomiting	33 (26.2)	0	29 (23.4)	2 (1.6)	
Peripheral neuropathy	25 (19.8)	4 (3.2)	4 (3.2)	0	
Constipation	19 (15.1)	0	13 (10.5)	0	
Hematuria	19 (15.1)	1 (0.8)	7 (5.6)	2 (1.6)	
Laboratory abnormalities — no./total no. (%)††					
Anemia	124/125 (99.2)	10/125 (8.0)	118/124 (95.2)	6/124 (4.8)	
Leukopenia	93/125 (74.4)	40/125 (32.0)	39/124 (31.5)	2/124 (1.6)	
Neutropenia	81/123 (65.9)	55/123 (44.7)	8/124 (6.5)	4/124 (3.2)	
Thrombocytopenia	51/125 (40.8)	4/125 (3.2)	20/124 (16.1)	2/124 (1.6)	
Aspartate aminotransferase increased	27/124 (21.8)	4/124 (3.2)	35/124 (28.2)	0/124	
Alanine aminotransferase increased	24/124 (19.4)	1/124 (0.8)	11/124 (8.9)	0/124	
Hypokalemia	15/125 (12.0)	1/125 (0.8)	19/124 (15.3)	1/124 (0.8)	



ORIGINAL RESEARCH

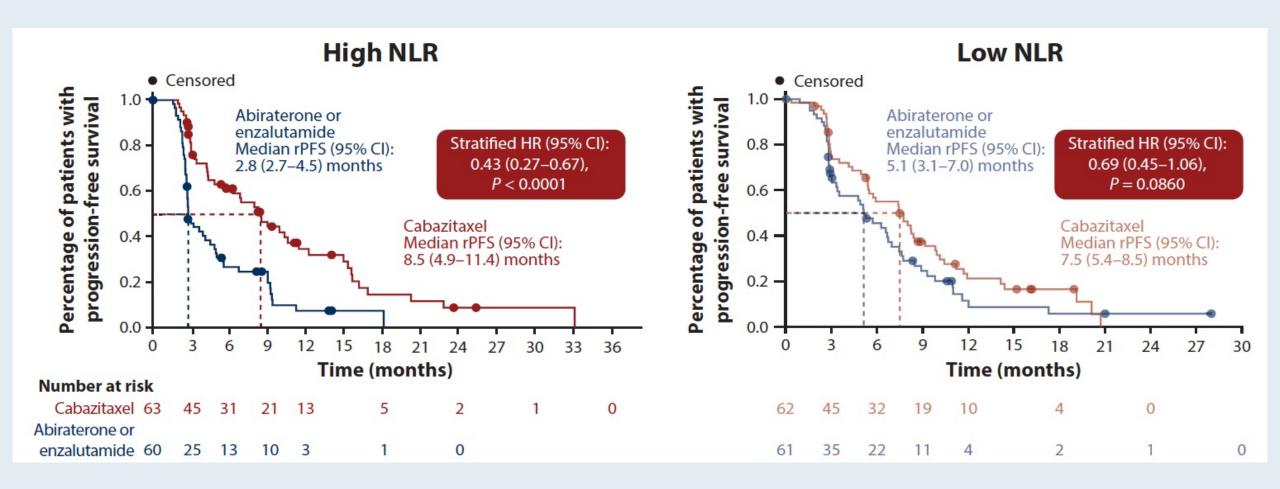
Baseline neutrophil-to-lymphocyte ratio as a predictive and prognostic biomarker in patients with metastatic castration-resistant prostate cancer treated with cabazitaxel versus abiraterone or enzalutamide in the CARD study

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R. de Wit<sup>1*</sup>, C. Wülfing<sup>2</sup>, D. Castellano<sup>3</sup>, G. Kramer<sup>4</sup>, J.-C. Eymard<sup>5</sup>, C. N. Sternberg<sup>6</sup>, K. Fizazi<sup>7,8</sup>, B. Tombal<sup>9</sup>, A. Bamias<sup>10</sup>, J. Carles<sup>11</sup>, R. lacovelli<sup>12,13</sup>, B. Melichar<sup>14</sup>, Á. Sverrisdóttir<sup>15</sup>, C. Theodore<sup>16</sup>, S. Feyerabend<sup>17</sup>, C. Helissey<sup>18</sup>, M. C. Foster<sup>19</sup>, A. Ozatilgan<sup>19</sup>, C. Geffriaud-Ricouard<sup>20</sup> & J. de Bono<sup>21,22</sup>
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ESMO Open 2021;[Online ahead of print].

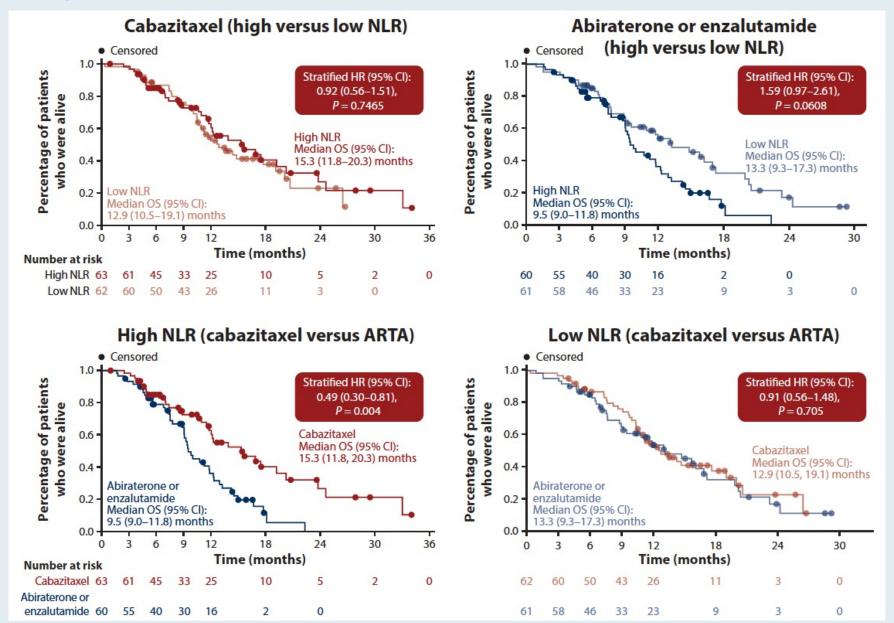


CARD: rPFS by Baseline Neutrophil-to-Lymphocyte Ratio (NLR)



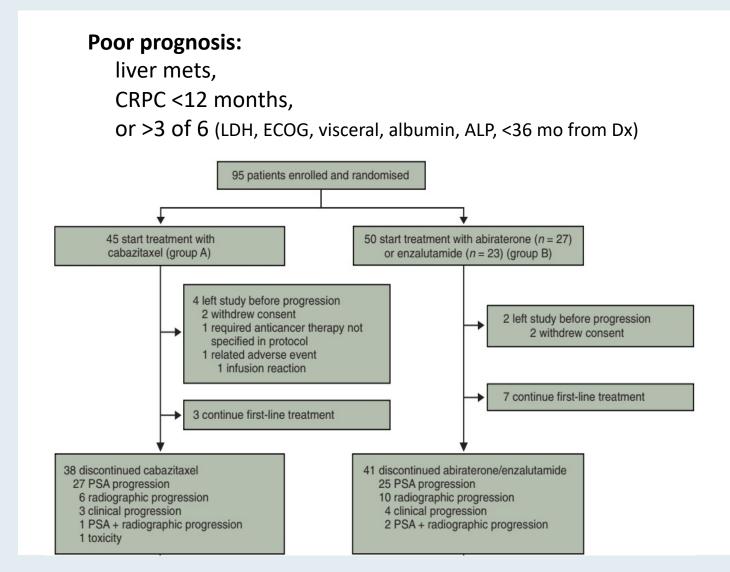


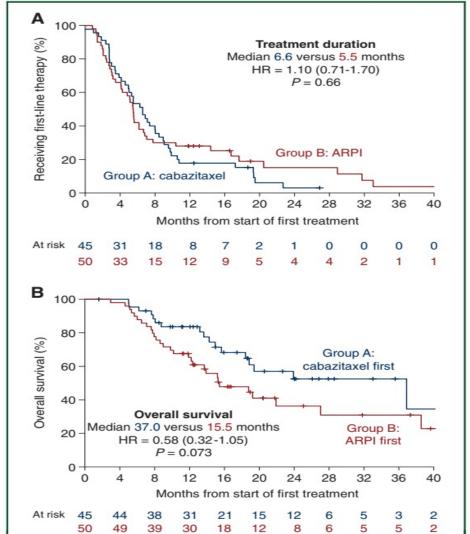
CARD: OS by Baseline NLR





The Canadian Trial (Phase II OZM-054 Trial)





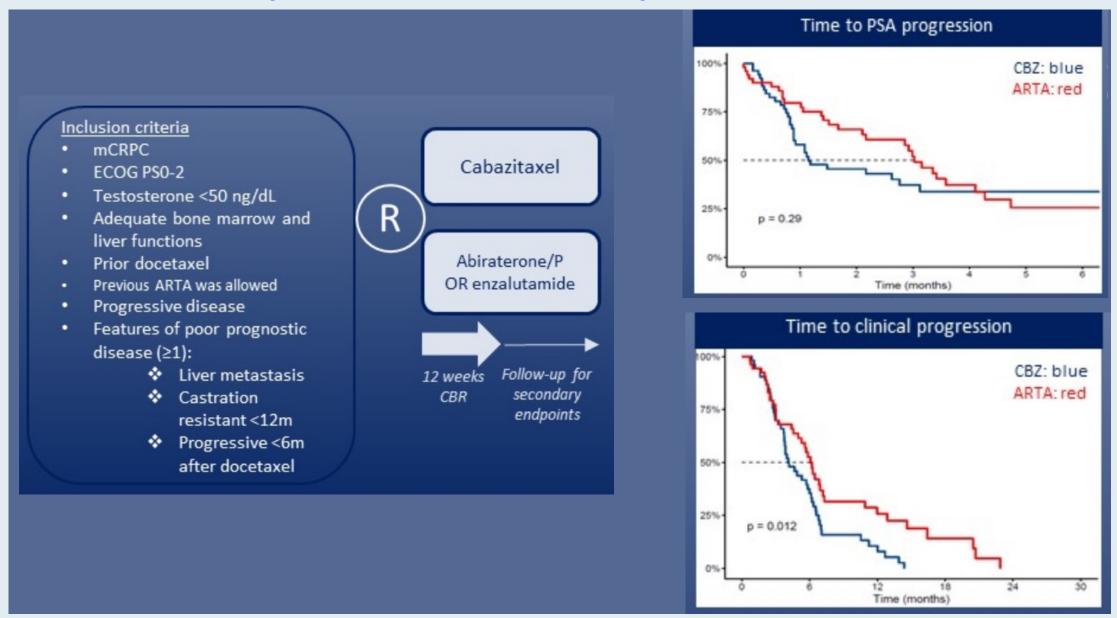


First Results from a Randomized Phase II Study of Cabazitaxel (CBZ) versus an Androgen Receptor Targeted Agent (ARTA) in Patients with Poor-Prognosis Castration-Resistant Prostate Cancer (mCRPC)

van der Zande K et al. ASCO 2021; Abstract 5059.

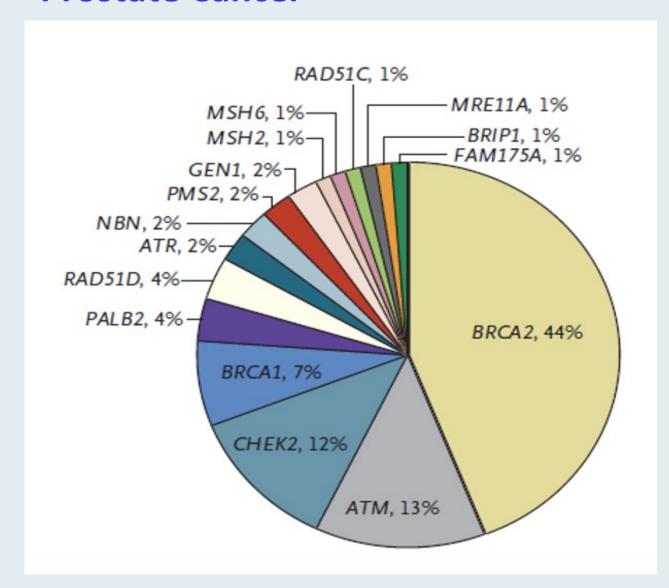


The Dutch Trial (Phase II OSTRICh Trial)





Inherited DNA Repair Gene Mutations in Men with Metastatic Prostate Cancer



- Multicenter study of 692 men
- Deleterious mutations were found in 82 men (11.8%) in 16 genes
- Observed rate exceeded that associated with localized prostate cancer (4.6%) and general population without cancer (2.7%)



Recent FDA Approvals of PARP Inhibitors for mCRPC

PARP inhibitor	Approval date	Pivotal study
Olaparib	May 19, 2020	PROfound
Rucaparib	May 15, 2020	TRITON2



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

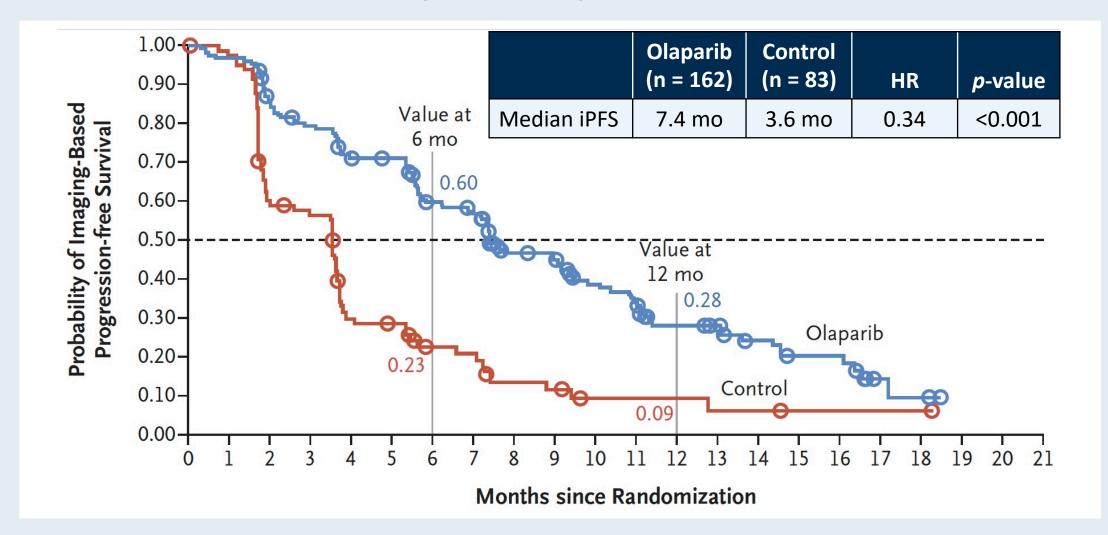
Olaparib for Metastatic Castration-Resistant Prostate Cancer

J. de Bono, J. Mateo, K. Fizazi, F. Saad, N. Shore, S. Sandhu, K.N. Chi, O. Sartor, N. Agarwal, D. Olmos, A. Thiery-Vuillemin, P. Twardowski, N. Mehra, C. Goessl, J. Kang, J. Burgents, W. Wu, A. Kohlmann, C.A. Adelman, and M. Hussain

N Engl J Med 2020;382:2091-102



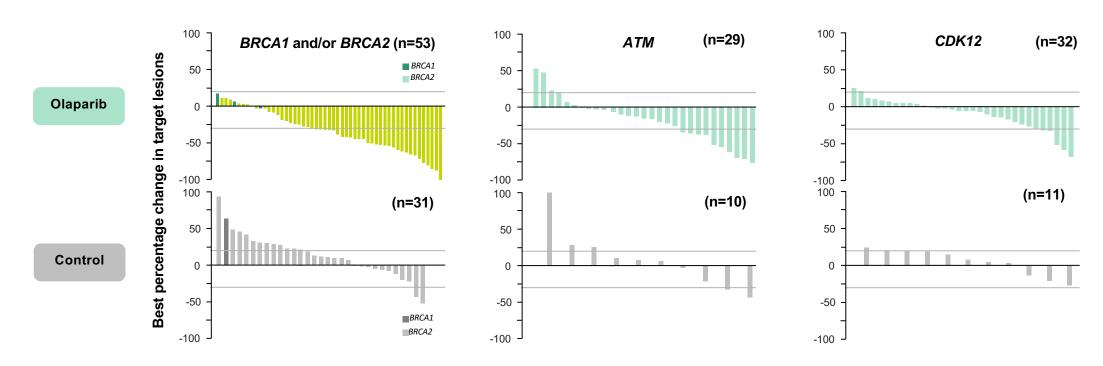
PROfound Primary Endpoint: Imaging-Based PFS with Olaparib for Patients with mCRPC Who Had at Least 1 Alteration in BRCA1, BRCA2 or ATM (Cohort A)





Olaparib Antitumor Activity in PROfound

		Cohort A		Cohorts A+B		BRCA1 and/or BRCA2		ATM		CDK12	
		Olaparib (N=162)	Control (N=83)	Olaparib (N=256)	Control (N=131)	Olaparib (N=102)	Control (N=58)	Olaparib (N=62)	Control (N=24)	Olaparib (N=61)	Control (N=28)
rPFS	Median, months	7.4	3.6	5.8	3.5	9.8	3.0	5.4	4.7	5.1	2.2
	HR (95% CI)	0.34 (0.	25–0.47)	0.49 (0.38	3–0.63)	0.22 (0	.15–0.32)	1.04 (0.6	1–1.87)	0.74 (0.44	–1.31)
os	Median OS, months	19.1	14.7	17.3	14.0	20.1	20.1 14.4		15.6	14.1 11.5	
	HR (95% CI)	0.69 (0.	50–0.97)	0.79 (0.63	1–1.03)	0.63 (0.	0.63 (0.42–0.95)		3–1.75)	0.97 (0.57–1.71)	
ORR	Evaluable patients, n	84	43	138	67	57	33	30	10	34	12
	ORR, %	33.3	2.3	21.7	4.5	43.9	0	10.0	10.0	5.9	0
PSA	Evaluable patients, n Confirmed response, %	153 43.1	77 7.8	243 30.0	123 9.8	94 61.7	54 0	61 13.1	22 22.7	58 5.2	27 3.7
СТС	Evaluable patients, n	52	22	78	32	29	17	25	3	14	5
	Conversion, %	55.8	22.7	52.6	21.9	69.0	23.5	40.0	33.3	50.0	40.0



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Survival with Olaparib in Metastatic Castration-Resistant Prostate Cancer

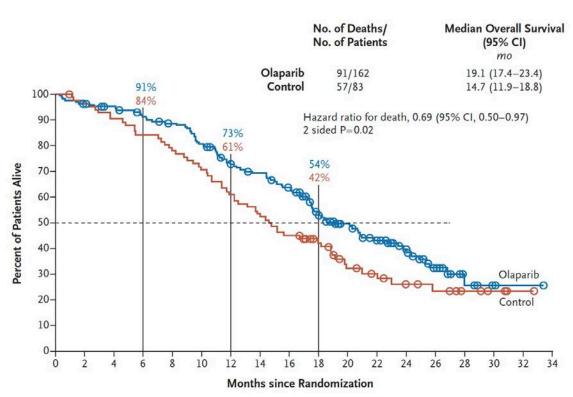
M. Hussain, J. Mateo, K. Fizazi, F. Saad, N. Shore, S. Sandhu, K.N. Chi, O. Sartor, N. Agarwal, D. Olmos, A. Thiery-Vuillemin, P. Twardowski, G. Roubaud, M. Özgüroğlu, J. Kang, J. Burgents, C. Gresty, C. Corcoran, C.A. Adelman, and J. de Bono, for the PROfound Trial Investigators*

N Engl J Med 2020;383(24):2345-57.

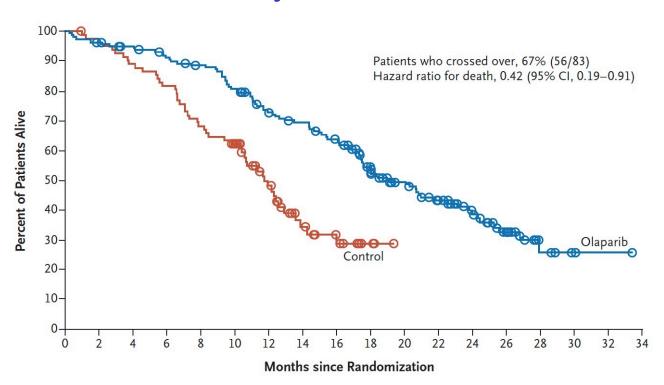


PROfound: OS with Olaparib in Patients with mCRPC Who Had at Least 1 Alteration in BRCA1, BRCA2 or ATM (Cohort A)

Overall survival



Cross-over adjusted overall survival





Rucaparib in Men With Metastatic Castration-Resistant Prostate Cancer Harboring a *BRCA1* or *BRCA2* Gene Alteration

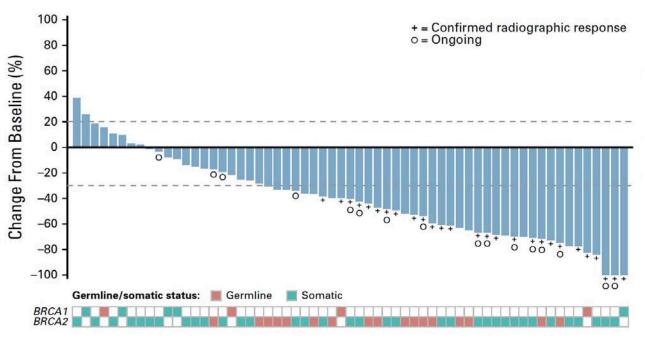
Wassim Abida, MD, PhD¹; Akash Patnaik, MD, PhD, MMSc²; David Campbell, MBBS³; Jeremy Shapiro, MBBS⁴; Alan H. Bryce, MD⁵; Ray McDermott, MD, PhD, MBA⁶; Brieuc Sautois, MD, PhDⁿ; Nicholas J. Vogelzang, MD˚; Richard M. Bambury, MD˚; Eric Voog, MD¹⁰; Jingsong Zhang, MD, PhD¹¹; Josep M. Piulats, MD¹²; Charles J. Ryan, MD¹³; Axel S. Merseburger, PhD¹⁴; Gedske Daugaard, DMSc¹⁵; Axel Heidenreich, MD¹⁶; Karim Fizazi, MD, PhD¹⁷; Celestia S. Higano, MD¹ã; Laurence E. Krieger, MBChB¹⁰; Cora N. Sternberg, MD²⁰; Simon P. Watkins, PhD²¹; Darrin Despain, MStat²²; Andrew D. Simmons, PhD²³; Andrea Loehr, PhD²³; Melanie Dowson, BA²⁴; Tony Golsorkhi, MD²⁵; and Simon Chowdhury, MD, PhD²⁶,²⁷; on behalf of the TRITON2 investigators

J Clin Oncol 2020;38(22):3763-72.

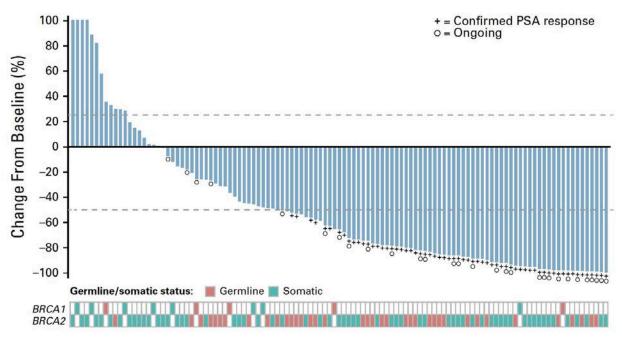


TRITON2: Response to Rucaparib in Patients with mCRPC Harboring a BRCA1 or BRCA2 Gene Alteration

ORR per independent radiology review: 43.5%



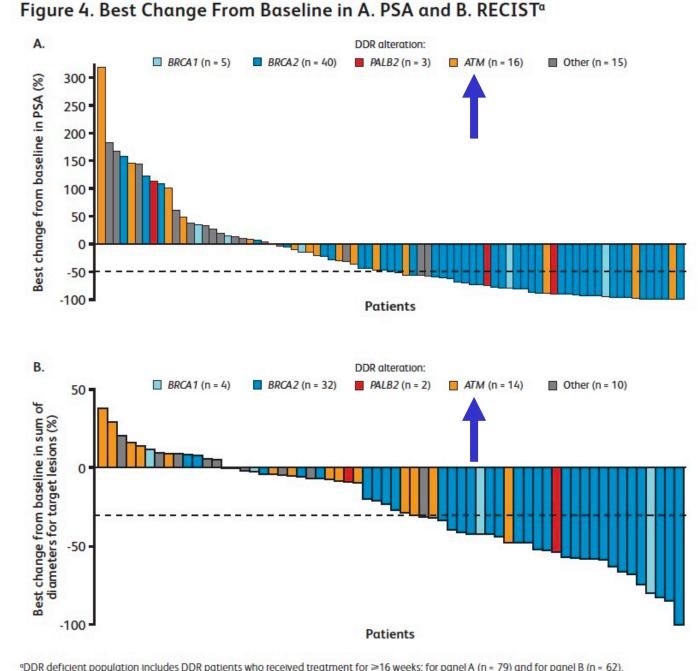
Confirmed PSA response rate: 54.8%





Talazoparib in mCRPC (TALAPRO-1)

BRCA in blue ATM loss in orange PALB2 in red





Abiraterone acetate plus prednisolone with or without enzalutamide added to androgen deprivation therapy compared to ADT alone for men with high-risk nonmetastatic prostate cancer: primary combined analysis from two comparisons in the STAMPEDE platform protocol

Gerhardt Attard, Louise Brown, Noel Clarke, Laura Murphy, William Cross, Rob Jones, Silke Gillessen, J.Martin Russell, Adrian Cook, Jo Bowen, Anna Lydon, Ian Pedley, Omi Parikh, Simon Chowdhury, Zafar Malik, David Matheson, Chris Parker, Matthew Sydes, Mahesh Parmar, Nicholas James on behalf of the STAMPEDE investigators*

Conducted by Medical Research Council Trials Unit at University College London, U.K.

ClinicalTrials.gov number, NCT00268476 & Current Controlled Trials number, ISRCTN78818544

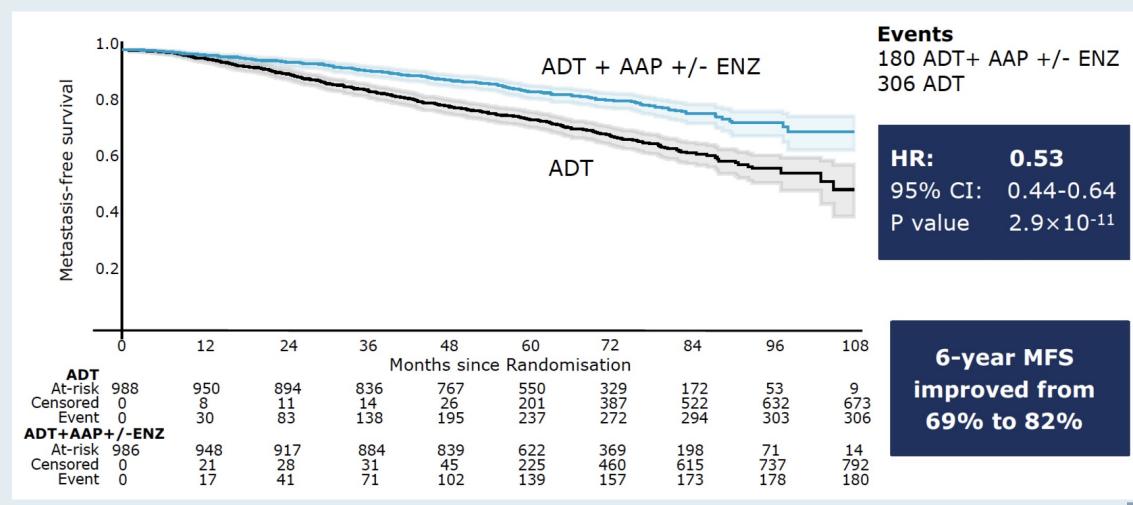
*113 U.K. and Swiss sites: list of investigators and collaborators at www.stampedetrial.org

www.stampedetrial.org



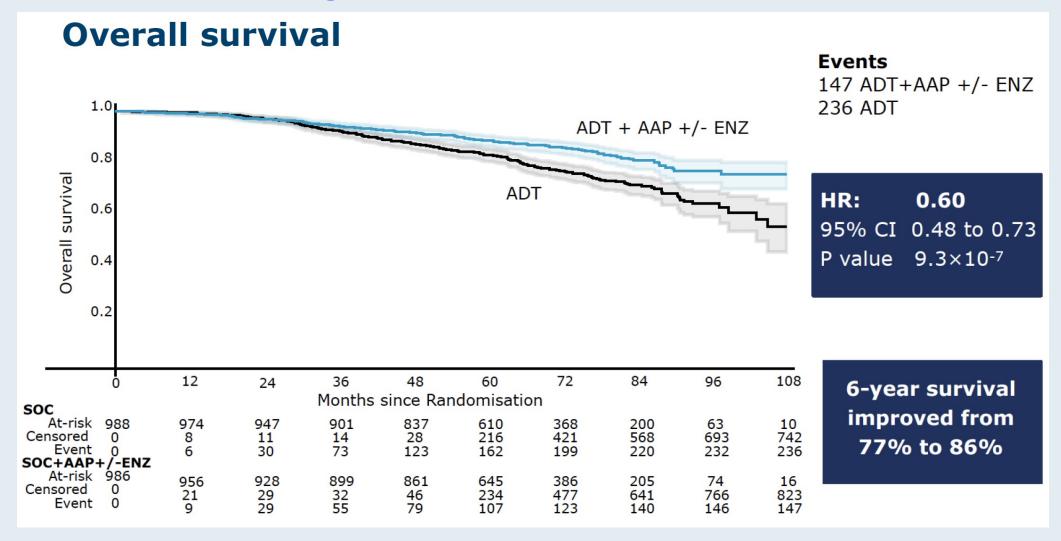


Metastasis-Free Survival with the Addition of Abiraterone Acetate and Prednisolone with or without Enzalutamide to ADT for High-Risk M0 Prostate Cancer





Overall Survival with the Addition of Abiraterone Acetate and Prednisolone with or without Enzalutamide to ADT for High-Risk M0 Prostate Cancer





Year in Review: Clinical Investigator Perspectives on the Most Relevant New Data Sets and Advances in Oncology

Breast Cancer

Thursday, January 6, 2022 5:00 PM - 6:00 PM ET

Faculty

Harold J Burstein, MD, PhD
Professor Peter Schmid, FRCP, MD, PhD

Moderator Neil Love, MD



Thank you for joining us!

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

