13th Annual Oncology Grand Rounds

A Complimentary NCPD Live Webinar Series Held During the 46th Annual ONS Congress

Prostate Cancer

Thursday, April 22, 2021 8:30 AM - 10:00 AM ET

Medical Oncologists

Charles J Ryan, MD
A Oliver Sartor, MD
Mary-Ellen Taplin, MD

Oncology Nurse Practitioners

Kathy D Burns, RN, MSN, AGACNP-BC, OCN Brenda Martone, MSN, NP-BC, AOCNP Ronald Stein, JD, MSN, NP-C, AOCNP

Moderator Neil Love, MD



Medical Oncologists



Charles J Ryan, MD
Professor of Medicine
BJ Kennedy Chair in Clinical Medical Oncology
Director, Division of Hematology, Oncology
and Transplantation



Oncology Nurse Practitioners

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City of Hope Comprehensive Cancer Center
Duarte, California



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Ronald Stein, JD, MSN, NP-C, AOCNP Clinical Instructor of Medicine USC Norris Comprehensive Cancer Center Los Angeles, California

Commercial Support

This activity is supported by educational grants from Astellas and Pfizer Inc, AstraZeneca Pharmaceuticals LP, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, and Merck.



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.



Dr Ryan — **Disclosures**

No relevant conflicts of interest to disclose



Dr Sartor — **Disclosures**

Consulting Agreements	Advanced Accelerator Applications, Astellas, AstraZeneca Pharmaceuticals LP, Bavarian Nordic, Bayer HealthCare Pharmaceuticals, Blue Earth Diagnostics, Bristol-Myers Squibb Company, Clarity Pharmaceuticals, Clovis Oncology, Constellation Pharmaceuticals, Dendreon Pharmaceuticals Inc, EMD Serono Inc, Fusion Pharmaceuticals, ITM Isotopen Technologien Muenchen AG, Janssen Biotech Inc, Myovant Sciences, Myriad Genetic Laboratories Inc, Noria Therapeutics Inc, Novartis, Noxopharm, Pfizer Inc, Point Biopharma Inc, Progenics Pharmaceuticals Inc, Sanofi Genzyme, Telix Pharmaceuticals, TeneoBio, Theragnostics
Contracted Research	Advanced Accelerator Applications, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Constellation Pharmaceuticals, Dendreon Pharmaceuticals Inc, Endocyte Inc, Invitae, Janssen Biotech Inc, Merck, Progenics Pharmaceuticals Inc, Sanofi Genzyme, SOTIO LLC



Dr Taplin — **Disclosures**

No relevant conflicts of interest to disclose



Ms Burns — Disclosures

Advisory Committee	EMD Serono Inc
Speakers Bureau	Astellas, Exelixis Inc, Merck, Pfizer Inc



Ms Martone — Disclosures

No relevant conflicts of interest to disclose

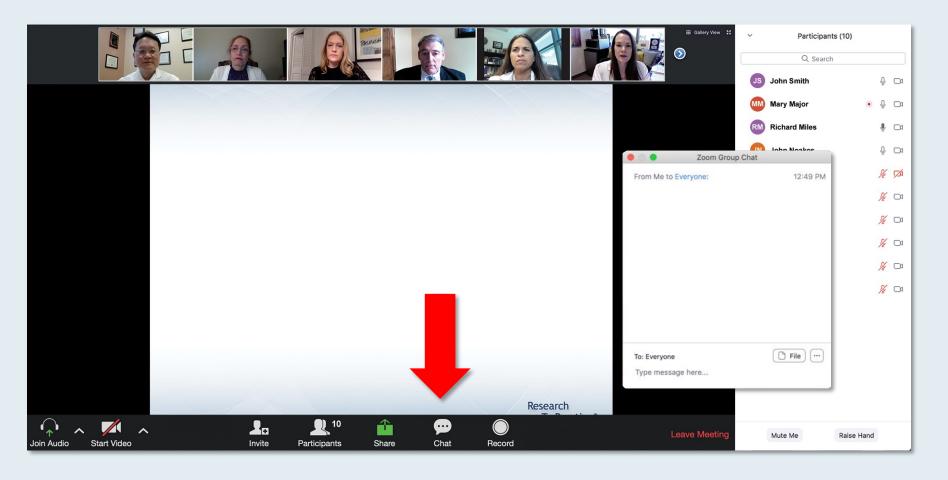


Mr Stein — **Disclosures**

No relevant conflicts of interest to disclose



We Encourage Clinicians in Practice to Submit Questions



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



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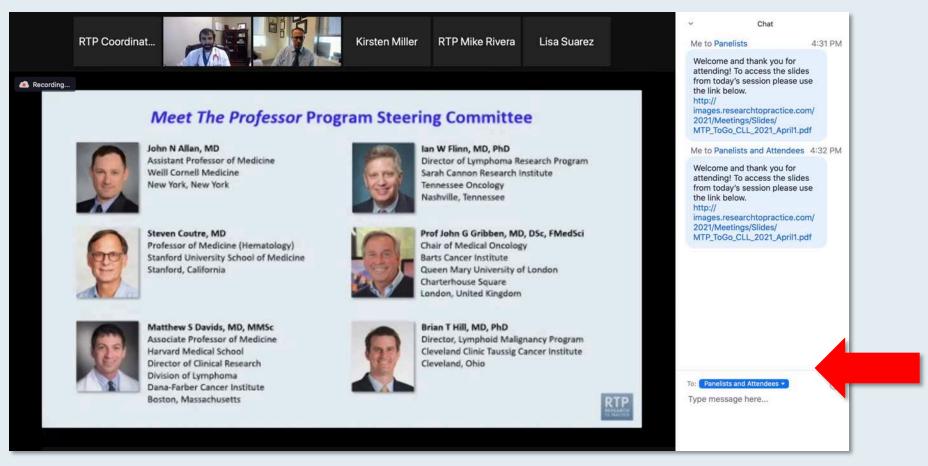
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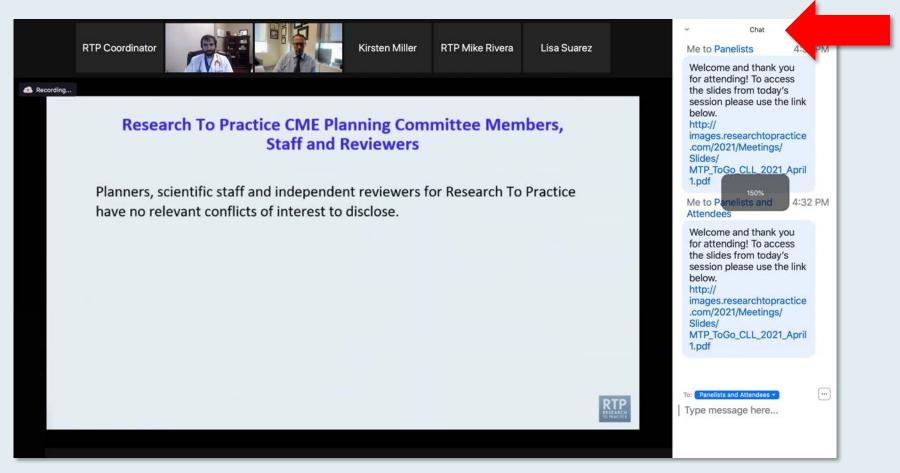


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ONCOLOGY TODAY

WITH DR NEIL LOVE

Side Effects of Hormonal Therapy in Prostate Cancer



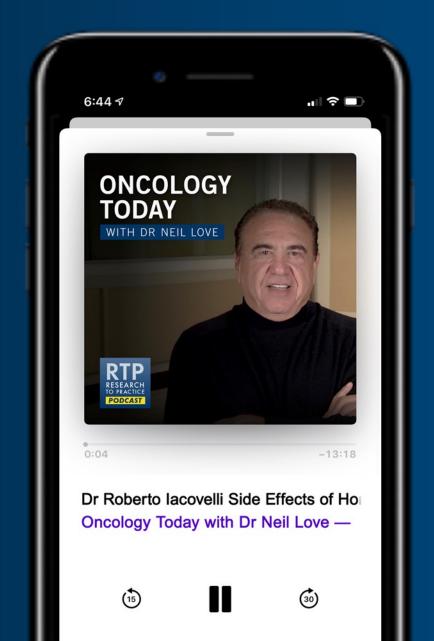
DR ROBERTO IACOVELLI

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13th Annual Oncology Grand Rounds

A Complimentary NCPD Live Webinar Series Held During the 46th Annual ONS Congress

Breast Cancer

Tuesday, April 20, 2021

8:30 AM - 10:00 AM ET

Non-Small Cell Lung Cancer

Tuesday, April 20, 2021

5:00 PM - 6:30 PM ET

Acute Myeloid Leukemia

Wednesday, April 21, 2021

12:00 PM - 1:00 PM ET

Colorectal and Gastroesophageal Cancers

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Chimeric Antigen Receptor T-Cell Therapy

Thursday, April 29, 2021

5:00 PM - 6:30 PM ET



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

In Partnership with Project Echo® and Florida Cancer Specialists

Tuesday, May 4, 2021 5:00 PM - 6:00 PM ET

Faculty
Chung-Han Lee, MD, PhD

Moderator Neil Love, MD



Current Concepts and Recent Advances in Oncology

A Daylong Clinical Summit Hosted in Partnership with Medical Oncology Association of Southern California (MOASC)

> Saturday, May 15, 2021 10:30 AM - 6:30 PM ET



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10:30 AM — Breast Cancer Ruth O'Regan, Tiffany A Traina

11:30 AM — Multiple Myeloma Kenneth Anderson, Noopur Raje

12:50 PM — Chronic Lymphocytic Leukemia and Lymphomas Craig Moskowitz, Jeff Sharman

1:50 PM — Genitourinary Cancers
Joaquim Bellmunt, Sumanta Kumar Pal



Saturday, May 15, 2021

3:15 PM — Gastrointestinal Cancers Wells A Messersmith, Eileen M O'Reilly

4:15 PM — Acute Myeloid Leukemia and Myelodysplastic Syndromes
Harry Paul Erba, Rami Komrokji

5:35 PM — Lung Cancer
D Ross Camidge, Benjamin Levy



Up for Debate: Oncology Investigators Provide Their Take on Current Controversies in Patient Care

A Daylong Multitumor Educational Webinar in Partnership with Florida Cancer Specialists

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2:00 PM — Multiple Myeloma Irene M Ghobrial, Sagar Lonial

3:15 PM — Breast Cancer Virginia Kaklamani, Nancy U Lin



Thank you for joining us!

NCPD credit information will be emailed to each participant shortly.



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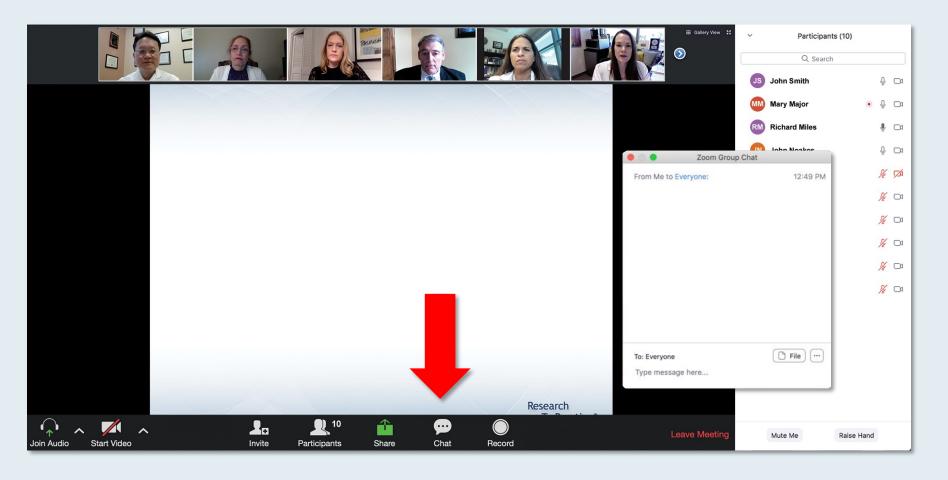


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Medical Oncologists



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Mollie Moran, APRN-CNP, AOCNP
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Abramson Cancer Center
Perelman Center for Advanced Medicine
University of Pennsylvania Medical Center
Faculty, University of Pennsylvania School of Nursing
Philadelphia, Pennsylvania



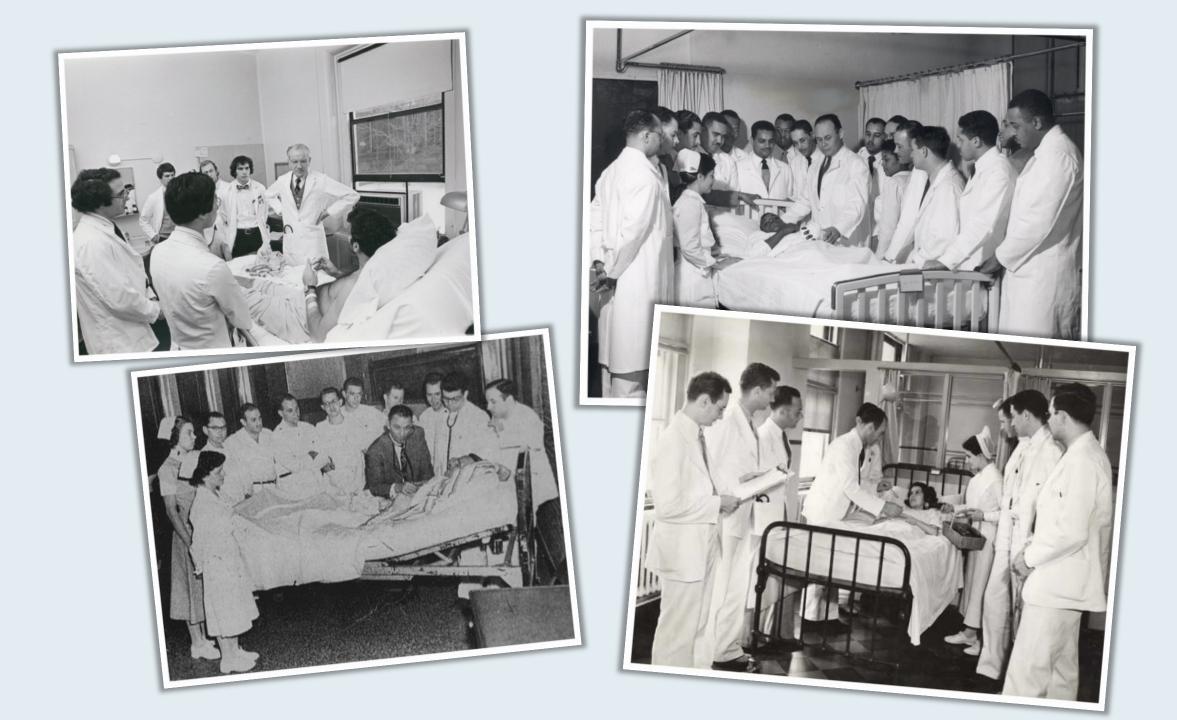
Elizabeth Zerante, MS, AGACNP-BC
APN Inpatient Hematopoietic Cellular
Therapy Service
University of Chicago Medicine
Chicago, Illinois



Oncology Grand Rounds Nursing Webinar Series

Monday	Tuesday	Wednesday	Thursday	Friday
19	Breast Ca 8:30 AM Lung Ca 5:00 PM	AML 12:00 PM CRC and GE Ca 4:45 PM	Prostate Ca 8:30 AM Lymphomas 5:00 PM	23
26	Multiple Myeloma 8:30 AM GYN 5:00 PM	Bladder Ca 12:00 PM	CLL 8:30 AM CAR-T 5:00 PM	30













13th Annual Oncology Grand Rounds

Oncology Nurse Practitioners Case Presentations

- Key patient-education issues
- Biopsychosocial considerations:
 - Family/loved ones
 - The bond that heals

Clinical Investigators Oncology Strategy

- New agents and regimens
- Predictive biomarkers
- Ongoing research and implications



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Moderator Neil Love, MD







Agenda

Case 1 (Mr Stein): A 59-year-old man with metastatic hormone-sensitive prostate cancer (mHSPC) and high-volume disease burden

Case 2 (Ms Burns): A 70-year-old man with M0 disease and a rising PSA on ADT

Case 3 (Ms Martone): A 72-year-old man with metastatic castration-resistant prostate cancer (mCRPC) and a somatic BRCA2 mutation

Case 4 (Mr Stein): A 69-year-old man with metastatic castrate-resistant disease and a somatic BRCA1 mutation and loss of heterozygosity



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Men who have metastatic prostate cancer on initial diagnosis have the greatest chance for sustained response with androgen deprivation and...

- 1. Endocrine-based therapy
- 2. Docetaxel
- 3. Either endocrine-based therapy or docetaxel no difference
- 4. I don't know



Case Presentation – A 59-year-old man with mHSPC and high-volume disease burden (Part 1)



Mr Stein

- Retired national park ranger living in a rural area presents to local clinic with significant back pain and unable to walk
- Workup reveals vertebral metastases all along spinal column
- PSA 6,400 ng/mL



Case Presentation – A 59-year-old man with mHSPC and high-volume disease burden (Part 2)



Mr Stein

- Retired national park ranger living in a rural area presents to local clinic with significant back pain and unable to walk
- Workup reveals vertebral metastases all along spinal column
- PSA 6,400 ng/mL
- Patient receives leuprolide and enzalutamide and is responding well with pronounced improvement in back pain



Ms Martone: Side Effects Associated with Androgen Deprivation Therapy





Ms Martone: Sexual Side Effects Associated with Androgen Deprivation Therapy





Ms Burns: Relationship Between Patient and Family Caregivers





Ms Martone: Selection of Androgen Deprivation Treatment





Ms Burns: Abiraterone, Enzalutamide and Apalutamide





FDA Approves Relugolix for Advanced Prostate Cancer

Press Release: December 18, 2020

"On December 18, 2020, the U.S. Food and Drug Administration approved the first oral gonadotropin-releasing hormone (GnRH) receptor antagonist, relugolix, for adult patients with advanced prostate cancer.

Efficacy was evaluated in HERO (NCT03085095), a randomized, open label trial in men requiring at least one year of androgen deprivation therapy with either prostate cancer recurrence following radiation or surgery or newly diagnosed castration-sensitive advanced prostate cancer.

Patients (N=934) were randomized (2:1) to receive relugolix 360 mg oral loading dose on the first day, followed by daily oral doses of 120 mg, or leuprolide acetate 22.5 mg injection subcutaneously every 3 months for 48 weeks."



HERO Phase III Trial: Results Comparing Relugolix, an Oral GnRH Receptor Antagonist, versus Leuprolide Acetate for Advanced Prostate Cancer¹

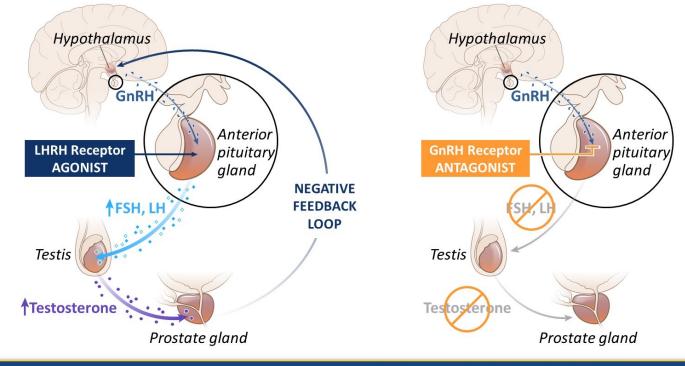
Oral Relugolix for Androgen-Deprivation Therapy in Advanced Prostate Cancer²

¹Shore N et al. ASCO 2020; Abstract 5602.

² Shore ND et al. N Engl J Med 2020;382(23):2187-96.



LHRH agonist vs antagonist MOA and side effect profile



PRESENTED AT: 2020 ASCO ANNUAL MEETING #ASCO20 Sides are the property of the outhor, permission required for reuse.

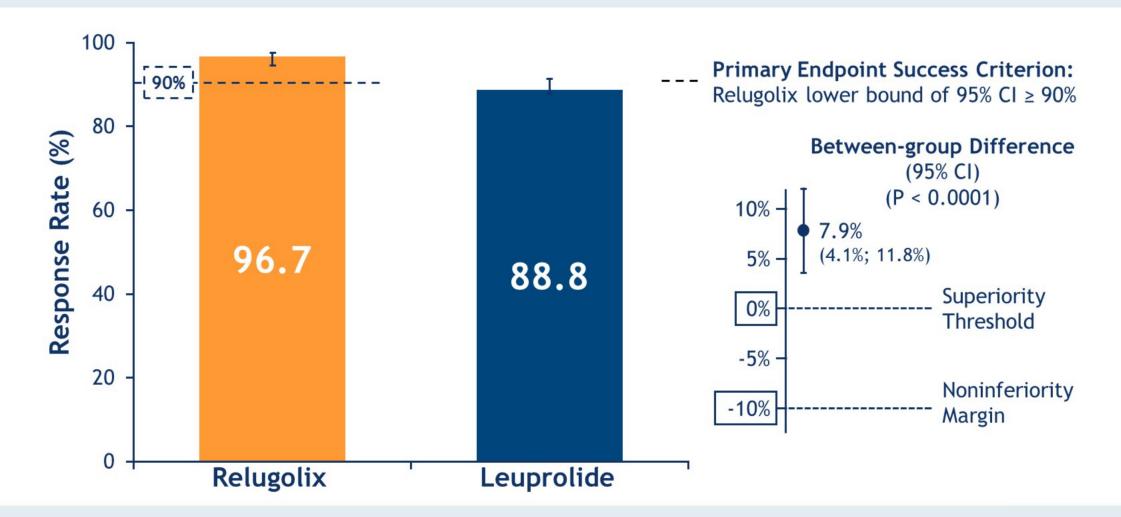
PRESENTED BY: Neal Shore, MD, FACS Carolina Urologic Research Center, SC, USA

Relugolix Leuprolide

	Relugolix (N = 622)	Leuprolide (N = 308)
Hot flush	54.3%	51.6%
Fatigue	21.5%	18.5%
Constipation	12.2%	9.7%
Diarrhea*	12.2%	6.8%
Arthralgia	12.1%	9.1%
Hypertension	7.9%	11.7%

Courtesy of Tanya B Dorff, MD

HERO: Primary Endpoint – Sustained Castration Key Secondary Endpoint – Noninferiority to Leuprolide





Relugolix: Cardiovascular Safety

	Relugolix (n = 622)		Leuprolide (n = 308)	
Event	Any grade	Grade 3/4	Any grade	Grade 3/4
Major adverse cardiac event (MACE)*	2.9%	1.3%	6.2%	1.3%
In patients without prior history of MACE	2.8%	_	4.2%	
In patients with prior history of MACE	3.6%		17.8%	

^{*}Nonfatal myocardial infarction, nonfatal stroke and death from any cause

In the subgroup of patients with a reported medical history of MACE, the odds of having an event were 4.8 times as high with leuprolide as with relugolix.



FDA-Approved Next-Generation Antiandrogens in Metastatic Hormone-Sensitive Prostate Cancer

Agent	Approval date	Pivotal study
Enzalutamide	December 16, 2019	ARCHES
Apalutamide	September 17, 2019	TITAN



ARCHES: A Randomized, Phase III Study of Androgen Deprivation Therapy With Enzalutamide or Placebo in Men With Metastatic Hormone-Sensitive Prostate Cancer

Andrew J. Armstrong, MD, ScM¹; Russell Z. Szmulewitz, MD²; Daniel P. Petrylak, MD³; Jeffrey Holzbeierlein, MD⁴; Arnauld Villers, MD⁵; Arun Azad, MBBS, PhD⁶; Antonio Alcaraz, MD, PhD⁷; Boris Alekseev, MD⁸; Taro Iguchi, MD, PhD⁹; Neal D. Shore, MD¹⁰; Brad Rosbrook, MS¹¹; Jennifer Sugg, MS¹²; Benoit Baron, MS¹³; Lucy Chen, MD¹²; and Arnulf Stenzl, MD¹⁴

J Clin Oncol 2019;37(32):2974-86.

The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1812

JULY 4, 2019

VOL. 381 NO. 1

Apalutamide for Metastatic, Castration-Sensitive Prostate Cancer

Kim N. Chi, M.D., Neeraj Agarwal, M.D., Anders Bjartell, M.D., Byung Ha Chung, M.D., Andrea J. Pereira de Santana Gomes, M.D., Robert Given, M.D., Álvaro Juárez Soto, M.D., Axel S. Merseburger, M.D., Mustafa Özgüroğlu, M.D., Hirotsugu Uemura, M.D., Dingwei Ye, M.D., Kris Deprince, M.D., Vahid Naini, Pharm.D., Jinhui Li, Ph.D., Shinta Cheng, M.D., Margaret K. Yu, M.D., Ke Zhang, Ph.D., Julie S. Larsen, Pharm.D., Sharon McCarthy, B.Pharm., and Simon Chowdhury, M.D., for the TITAN Investigators*

N Engl J Med 2019;381(1):13-24.



Final Analysis Results From TITAN: A Phase 3 Study of Apalutamide vs Placebo in Patients With Metastatic Castration-Sensitive Prostate Cancer Receiving Androgen Deprivation Therapy

<u>Kim N. Chi</u>, ¹ Simon Chowdhury, ² Anders Bjartell, ³ Byung Ha Chung, ⁴ Andrea J. Pereira de Santana Gomes, ⁵ Robert Given, ⁶ Álvaro Juárez Soto, ⁷ Axel S. Merseburger, ⁸ Mustafa Özgüroğlu, ⁹ Hirotsugu Uemura, ¹⁰ Dingwei Ye, ¹¹ Spyros Triantos, ¹² Sabine Brookman-May, ^{12,13} Suneel Mundle, ¹⁴ Sharon A. McCarthy, ¹⁴ Julie S. Larsen, ¹⁵ Weili Sun, ¹⁵ Katherine Bevans, ¹⁶ Ke Zhang, ¹⁷ Nibedita Bandyopadhyay, ¹⁴ Neeraj Agarwal, ¹⁸ for the TITAN Investigators

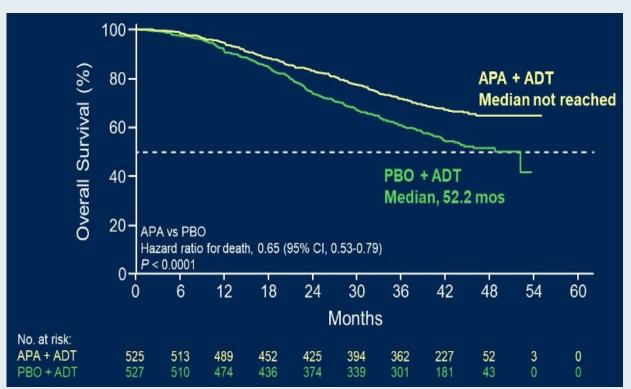
¹BC Cancer and Vancouver Prostate Centre, Vancouver, BC, Canada; ²Guy's, King's, and St. Thomas' Hospitals, and Sarah Cannon Research Institute, London, UK; ³Skåne University Hospital, Lund University, Malmö, Sweden; ⁴Yonsei University College of Medicine and Gangnam Severance Hospital, Seoul, South Korea; ⁵Liga Norte Riograndense Contra O Cancer, Natal, Brazil; ⁶Urology of Virginia, Eastern Virginia Medical School, Norfolk, VA; ³Hospital Universitario de Jerez de la Frontera, Cadiz, Spain; ⁶University Hospital Schleswig-Holstein, Campus Lübeck, Lübeck, Germany; ⁶Istanbul University-Cerrahpaşa, Cerrahpaşa, School of Medicine, Istanbul, Turkey; ¹ºKindai University Faculty of Medicine, Osaka, Japan; ¹¹Fudan University Shanghai Cancer Center, Shanghai, China; ¹²Janssen Research & Development, Spring House, PA; ¹³Ludwig-Maximilians-University (LMU), Munich, Germany; ¹⁴Janssen Research & Development, Raritan, NJ; ¹⁵Janssen Research & Development, Los Angeles, CA; ¹⁶Janssen Research & Development, Horsham, PA, ¹ðJanssen Research & Development, San Diego, CA; ¹⁶Huntsman Cancer Institute, University of Utah, Salt Lake City, UT



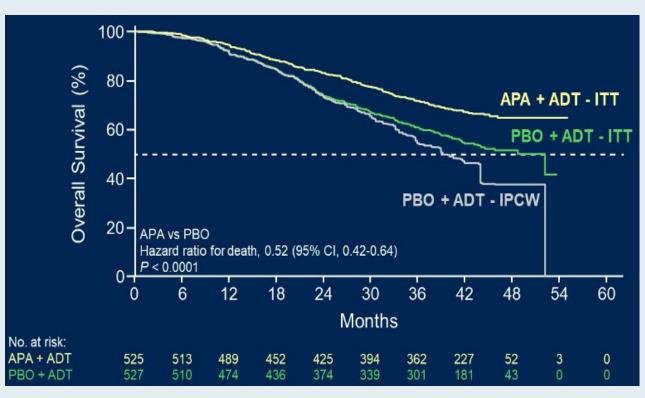


TITAN – Final Analysis: Overall Survival

OS (Co-primary endpoint)
Median follow-up: 44.0 months



OS with adjustment for ~40% crossover from PBO





Agenda

Case 1 (Mr Stein): A 59-year-old man with metastatic hormone-sensitive prostate cancer (mHSPC) and high-volume disease burden

Case 2 (Ms Burns): A 70-year-old man with M0 disease and a rising PSA on ADT

Case 3 (Ms Martone): A 72-year-old man with metastatic castration-resistant prostate cancer (mCRPC) and a somatic BRCA2 mutation

Case 4 (Mr Stein): A 69-year-old man with metastatic castrate-resistant disease and a somatic BRCA1 mutation and loss of heterozygosity



Case Presentation – A 70-year-old man with M0 disease and a rising PSA on ADT

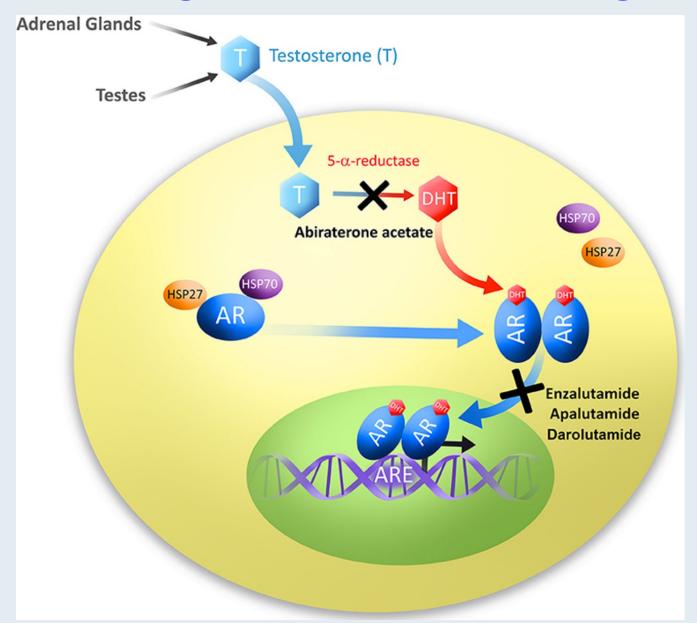


Ms Burns

- S/p primary radiation therapy 2010
- 2016: PSA recurrence (M0); initially observed and then started on ADT
- 2020: PSA progression; doubling-time 8 months; apalutamide added to ADT
- More recently developed Grade 3 maculopapular skin rash all over body
 - Antihistamines



Diagram of Androgen Production and Its Targeted Inhibition





Next-Generation Androgen Receptor Inhibitors^{1,2}

Apalutamide

F F N N N O O

Enzalutamide

Darolutamide

- Apalutamide and enzalutamide have similar structures
- Darolutamide is structurally distinct from apalutamide and enzalutamide, characterized by low blood—brain barrier penetration^{1,2,} and may have improved tolerability

^{1.} Zurth C et al. *J Clin Oncol*. 2018;36(Suppl 6):Abstract 345.

^{2.} Sandmann S et al. American Society of Clinical Oncology 2019 Genitourinary Cancers Symposium (ASCO GU 2019). Abstract 156.

The NEW ENGLAND JOURNAL of MEDICINE

N Engl J Med 2020;383:1040-9.

ORIGINAL ARTICLE

Nonmetastatic, Castration-Resistant Prostate Cancer and Survival with Darolutamide

K. Fizazi, N. Shore, T.L. Tammela, A. Ulys, E. Vjaters, S. Polyakov, M. Jievaltas, M. Luz, B. Alekseev, I. Kuss, M.-A. Le Berre, O. Petrenciuc, A. Snapir, T. Sarapohja, and M.R. Smith, for the ARAMIS Investigators*

The NEW ENGLAND JOURNAL of MEDICINE

N Engl J Med 2020;382(23):2197-206.

ORIGINAL ARTICLE

Enzalutamide and Survival in Nonmetastatic, Castration-Resistant Prostate Cancer

Cora N. Sternberg, M.D., Karim Fizazi, M.D., Ph.D., Fred Saad, M.D., Neal D. Shore, M.D., Ugo De Giorgi, M.D., Ph.D., David F. Penson, M.D., M.P.H., Ubirajara Ferreira, M.D., Ph.D., Eleni Efstathiou, M.D., Ph.D., Katarzyna Madziarska, M.D., Ph.D., Michael P. Kolinsky, M.D., Daniel I. G. Cubero, M.D., Ph.D., Bettina Noerby, M.D., Fabian Zohren, M.D., Ph.D., Xun Lin, Ph.D., Katharina Modelska, M.D., Ph.D., Jennifer Sugg, M.S., Joyce Steinberg, M.D., and Maha Hussain, M.D., for the PROSPER Investigators*



Eur J Cancer 2020; [Online ahead of print].

Prostate Cancer

Apalutamide and Overall Survival in Prostate Cancer

Matthew R. Smith ^{a,*}, Fred Saad ^b, Simon Chowdhury ^c, Stéphane Oudard ^d, Boris A. Hadaschik ^e, Julie N. Graff ^f, David Olmos ^g, Paul N. Mainwaring ^h, Ji Youl Lee ⁱ, Hiroji Uemura ^j, Peter De Porre ^k, Andressa A. Smith ^l, Sabine D. Brookman-May ^{m,n}, Susan Li ^l, Ke Zhang ^o, Brendan Rooney ^p, Angela Lopez-Gitlitz ^m, Eric J. Small ^q



Overall Survival: Darolutamide, Enzalutamide, Apalutamide

	ARAMIS ¹	PROSPER ²	SPARTAN ³
Antiandrogen	Darolutamide	Enzalutamide	Apalutamide
Median follow-up	49 mo	47 mo	52 mo
Median OS	Not estimated	57 vs 56 mo	74 vs 60 mo
OS hazard ratio	0.69 (p = 0.003)	0.73 (p = 0.001)	0.78 (p = 0.0161)



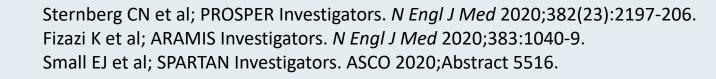
¹ Fizazi K et al; ARAMIS Investigators. *N Engl J Med* 2020;383:1040-9.

² Sternberg CN et al; PROSPER Investigators. *N Engl J Med* 2020;382(23):2197-206.

³ Smith MR et al; SPARTAN Investigators. *Eur Urol* 2021;79(1):150-158.

Comparison of Toxicities: Darolutamide, Enzalutamide, Apalutamide

	ARAMIS		PROSPER		SPARTAN	
Toxicity	Darolutamide	Placebo	Enzalutamide	Placebo	Apalutamide	Placebo
Fatigue/asthenia	16%	11%	33%	14%	30%	21%
Falling	4%	5%	11%	4%	16%	9%
Dizziness	5%	4%	10%	4%	9%	6%
Mental impairment	1%	2%	5%	2%	5%	3%





Agenda

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Case 4 (Mr Stein): A 69-year-old man with metastatic castrate-resistant disease and a somatic BRCA1 mutation and loss of heterozygosity



Case Presentation – A 72-year-old man with mCRPC and a somatic BRCA2 mutation (Part 1)



Ms Martone

- Dentist diagnosed with mCRPC with a somatic BRCA2 mutation
- Olaparib therapy initiated



Case Presentation – A 72-year-old man with mCRPC and a somatic BRCA2 mutation (Part 2)



Ms Martone

- Dentist diagnosed with mCRPC with a somatic BRCA2 mutation
- Olaparib therapy initiated
- Confusion regarding schedule to take oral pills led to underdosing
- Currently at full dose of olaparib and is responding well to treatment

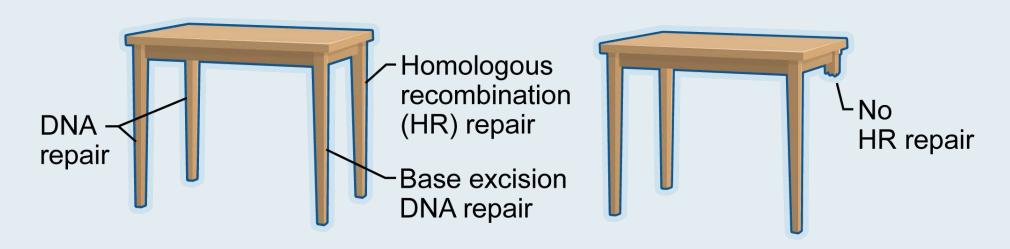


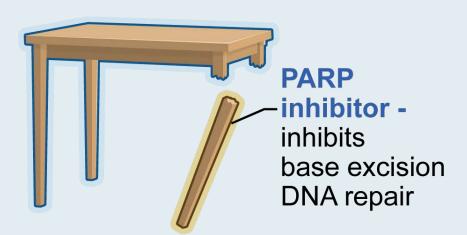
Management of Metastatic Castration-Resistant Prostate Cancer

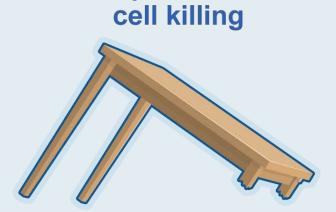
- Enzalutamide
- Abiraterone/prednisone
- Radium-223
- Sipuleucel-T
- Cabazitaxel
- Docetaxel
- PARP inhibitors



Mechanism of Cell Death from Synthetic Lethality Induced by PARP Inhibition







Specific tumor



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

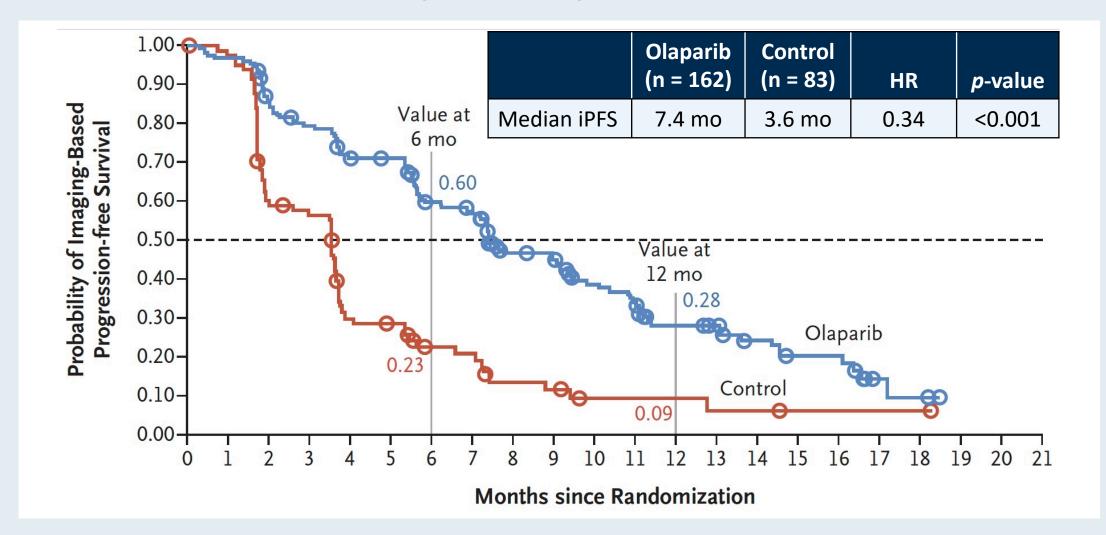
Olaparib for Metastatic Castration-Resistant Prostate Cancer

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)





The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Survival with Olaparib in Metastatic Castration-Resistant Prostate Cancer

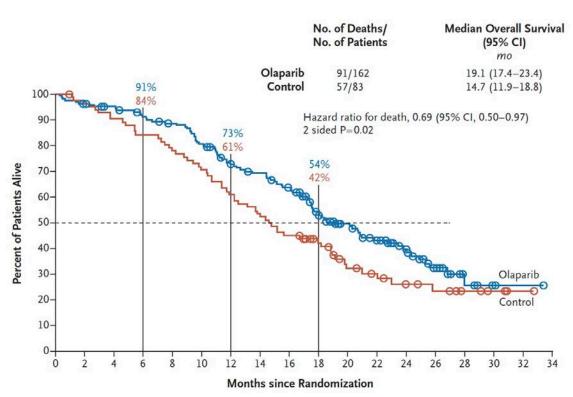
M. Hussain, J. Mateo, K. Fizazi, F. Saad, N. Shore, S. Sandhu, K.N. Chi, O. Sartor, N. Agarwal, D. Olmos, A. Thiery-Vuillemin, P. Twardowski, G. Roubaud, M. Özgüroğlu, J. Kang, J. Burgents, C. Gresty, C. Corcoran, C.A. Adelman, and J. de Bono, for the PROfound Trial Investigators*

N Engl J Med 2020; [Online ahead of print].

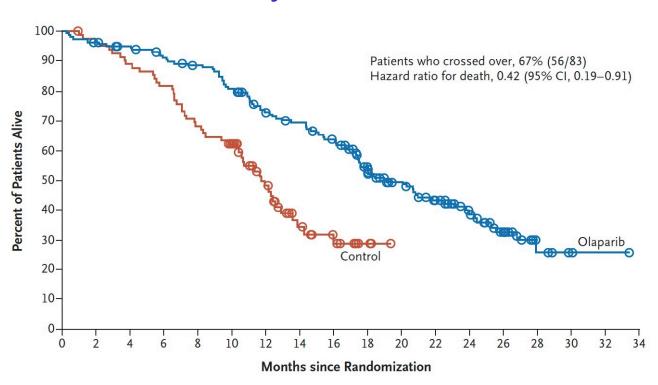


PROfound: Overall Survival with Olaparib for Patients with mCRPC Who Had at Least 1 Alteration in BRCA1, BRCA2 or ATM (Cohort A)

Overall survival



Cross-over adjusted overall survival





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

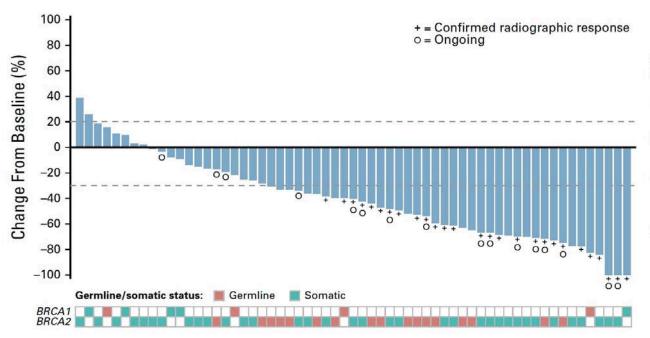
Wassim Abida, MD, PhD¹; Akash Patnaik, MD, PhD, MMSc²; David Campbell, MBBS³; Jeremy Shapiro, MBBS⁴; Alan H. Bryce, MD⁵; Ray McDermott, MD, PhD, MBA⁶; Brieuc Sautois, MD, PhDˀ; Nicholas J. Vogelzang, MD³; Richard M. Bambury, MD⁰; Eric Voog, MD¹⁰; Jingsong Zhang, MD, PhD¹¹; Josep M. Piulats, MD¹²; Charles J. Ryan, MD¹³; Axel S. Merseburger, PhD¹⁴; Gedske Daugaard, DMSc¹⁵; Axel Heidenreich, MD¹⁶; Karim Fizazi, MD, PhD¹⁷; Celestia S. Higano, MD¹³; 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(32):3763-72.

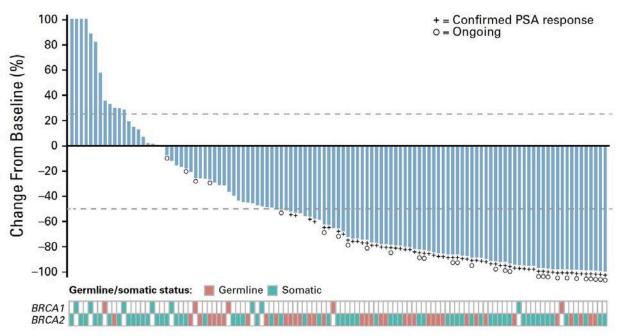


TRITON2: Response to Rucaparib in Patients with mCRPC Harboring a BRCA1 or BRCA2 Gene Alteration

ORR per independent radiology review: 43.5%



Confirmed PSA response rate: 54.8%





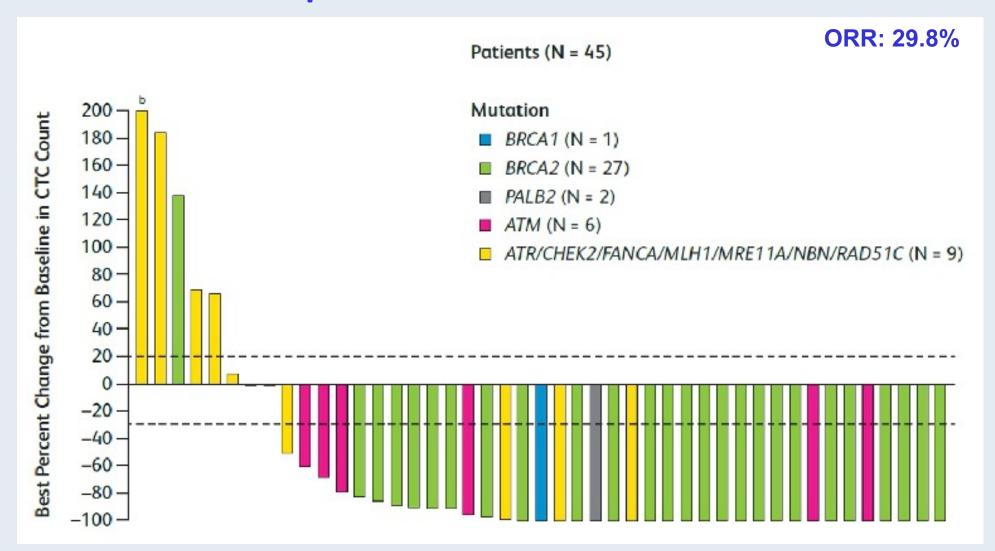
TALAPRO-1: Phase II Study of Talazoparib (TALA) in Patients (pts) with DNA Damage Repair Alterations (DDRm) and Metastatic Castration-Resistant Prostate Cancer (mCRPC)

de Bono JS et al.

Genitourinary Cancers Symposium 2021; Abstract 93.



TALAPRO-1: Best Change from Baseline in Circulating Tumor Cell Count with Talazoparib





Agenda

Case 1 (Mr Stein): A 59-year-old man with metastatic hormone-sensitive prostate cancer (mHSPC) and high-volume disease burden

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Case 4 (Mr Stein): A 69-year-old man with metastatic castrate-resistant disease and a somatic BRCA1 mutation and loss of heterozygosity



Case Presentation – A 69-year-old man with metastatic castrate-resistant disease and a somatic BRCA1 mutation and loss of heterozygosity



Mr Stein

- Initially diagnosed in 2014 with metastatic disease, and now has rapidly progressing disease
- Developed spinal cord compression treated with radiation and IV steroids
 - "Code Spine"



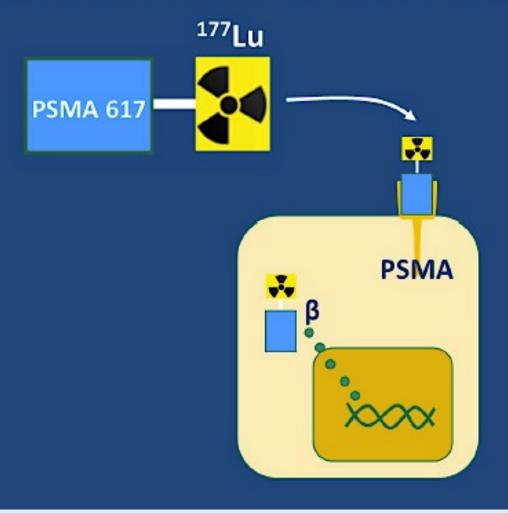
CARD: Overall Survival Analysis of Patients with Metastatic Castration-Resistant Prostate Cancer Receiving Cabazitaxel vs Abiraterone or Enzalutamide

Tombal B et al.

ASCO 2020; Abstract 5569.



¹⁷⁷Lu-PSMA-617 is a small molecule RLT targeting PSMA





Lancet 2021;397:797-804.

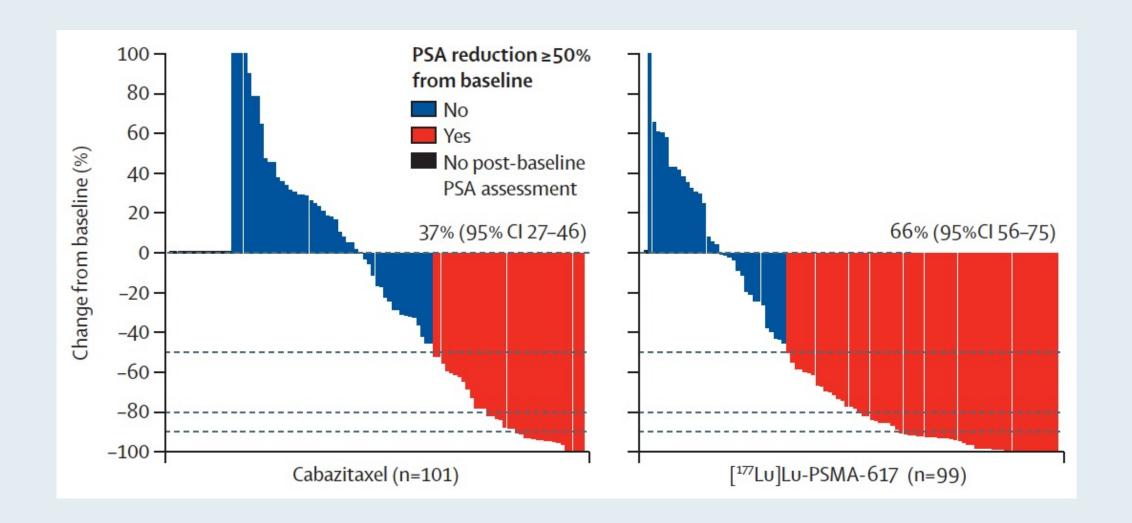
[177Lu]Lu-PSMA-617 versus cabazitaxel in patients with metastatic castration-resistant prostate cancer (TheraP): a randomised, open-label, phase 2 trial



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†



TheraP: Primary Endpoint — **PSA Response** ≥50%





TheraP: Select Adverse Events

	¹⁷⁷ Lu-PSMA-617 (n = 98)		Cabazitaxel (n = 85)		
Event	Grade 1/2	Grade 3/4	Grade 1/2	Grade 3/4	
Pain	61%	11%	61%	5%	
Thrombocytopenia	18%	11%	5%	0	
Anemia	19%	8%	13%	8%	
Neutropenia	7%	4%	5%	13%	



Positive Results Announced from the Phase III VISION Trial of Radioligand Therapy ¹⁷⁷Lu-PSMA-617 for Advanced Prostate Cancer

Press Release: Mar 23, 2021

"The Phase III VISION study [is] evaluating the efficacy and safety of ¹⁷⁷Lu-PSMA-617, a targeted radioligand therapy in patients with progressive PSMA-positive metastatic castration-resistant prostate cancer (mCRPC) compared to best standard of care alone.

The trial met both primary endpoints of overall survival and radiographic progression-free survival... The safety profile was consistent with data reported in previous clinical studies.

Results from the VISION trial will be presented at an upcoming medical meeting and included in US and EU regulatory submissions."



13th Annual Oncology Grand Rounds

A Complimentary NCPD Live Webinar Series Held During the 46th Annual ONS Congress

Hodgkin and Non-Hodgkin Lymphomas

Thursday, April 22, 2021 5:00 PM - 6:30 PM ET

Medical Oncologists

Stephen M Ansell, MD, PhD
Carla Casulo, MD
John P Leonard, MD

Oncology Nurse Practitioners

Jacklyn Gideon, MSN, AGPCNP-BC Robin Klebig, APRN, CNP, AOCNP Mollie Moran, APRN-CNP, AOCNP

Moderator Neil Love, MD



Thank you for joining us!

NCPD credit information will be emailed to each participant shortly.

