

Fall Oncology Nursing Series

A Complimentary NCPD-Accredited Virtual Curriculum

Prostate Cancer

Thursday, September 2, 2021

5:00 PM – 6:00 PM ET

Faculty

Mary-Ellen Taplin, MD

Kathy D Burns, RN, MSN, AGACNP-BC, OCN

Moderator

Neil Love, MD

Faculty



Mary-Ellen Taplin, MD
Professor of Medicine
Harvard School of Medicine
Dana-Farber Cancer Institute
Boston, Massachusetts



Moderator
Neil Love, MD
Research To Practice
Miami, Florida



Kathy D Burns, RN, MSN, AGACNP-BC, OCN
GU Medical Oncology
City of Hope Comprehensive Cancer Center
Duarte, 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

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

Research To Practice CME Planning Committee Members, Staff and Reviewers

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

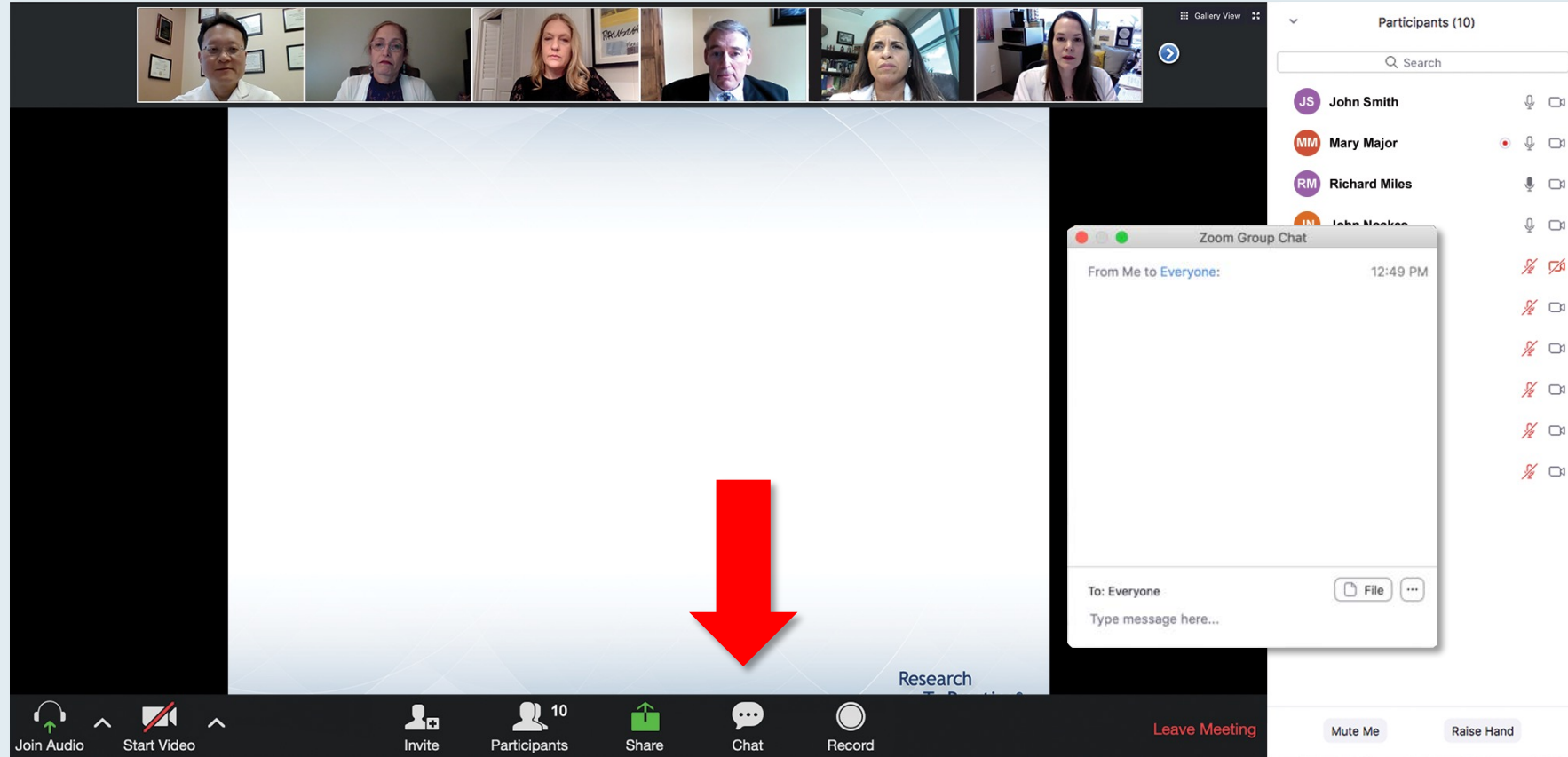
Dr Taplin — Disclosures

No relevant conflicts of interest to disclose

Ms Burns — Disclosures

Advisory Committee	EMD Serono Inc, Pfizer Inc
Speakers Bureau	Astellas, Aveo Pharmaceuticals, Exelixis Inc, Myovant Sciences, Pfizer Inc

We Encourage Clinicians in Practice to Submit Questions



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

Familiarizing Yourself with the Zoom Interface

How to answer survey or poll questions

The screenshot shows a Zoom meeting window. At the top, there is a gallery view of seven participants. The main content area displays a presentation slide titled "Meet The Profe" with the subtitle "Optimizing the Selection and of Therapy for Patients with Gastrointestinal Ca". Below the title, it says "Wednesday, August 25, 5:00 PM – 6:00 PM" and lists "Faculty Wells A Messersmith," and "Moderator Neil Love, MD". A "Quick Survey" overlay is positioned in the center-right of the screen, listing several treatment options with radio buttons for selection. To the right of the main content is a "Participants (10)" list showing names and icons for each participant. At the bottom, the Zoom toolbar includes buttons for "Join Audio", "Start Video", "Invite", "Participants", "Share", "Chat", "Record", and "Leave Meeting".

Quick Survey

- ☐ Ceritinib +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Ceritinib + pomalidomide +/- dexamethasone
- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Isosorbide + Rd
- ☐ Other

Submit

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Quick Poll

- ☐ Nivolumab/ipilimumab
- ☐ Avelumab/axitinib
- ☐ Pembrolizumab/axitinib
- ☐ Pembrolizumab/lenvatinib
- ☐ Nivolumab/cabozantinib
- ☐ Tyrosine kinase inhibitor (TKI) monotherapy
- ☐ Anti-PD-1/PD-L1 monotherapy
- ☐ Other

Submit

Clinicians in the audience, please click your answer choice for the premeeting survey as well as the live polling questions.

Familiarizing Yourself with the Zoom Interface

Expand chat submission box

The screenshot displays a Zoom meeting interface. At the top, a video bar shows participants: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the video bar, a 'Recording...' indicator is visible. The main content area shows a presentation slide titled 'Meet The Professor Program Steering Committee'. The slide lists six members of the steering committee, each with a portrait photo and their name and affiliation:

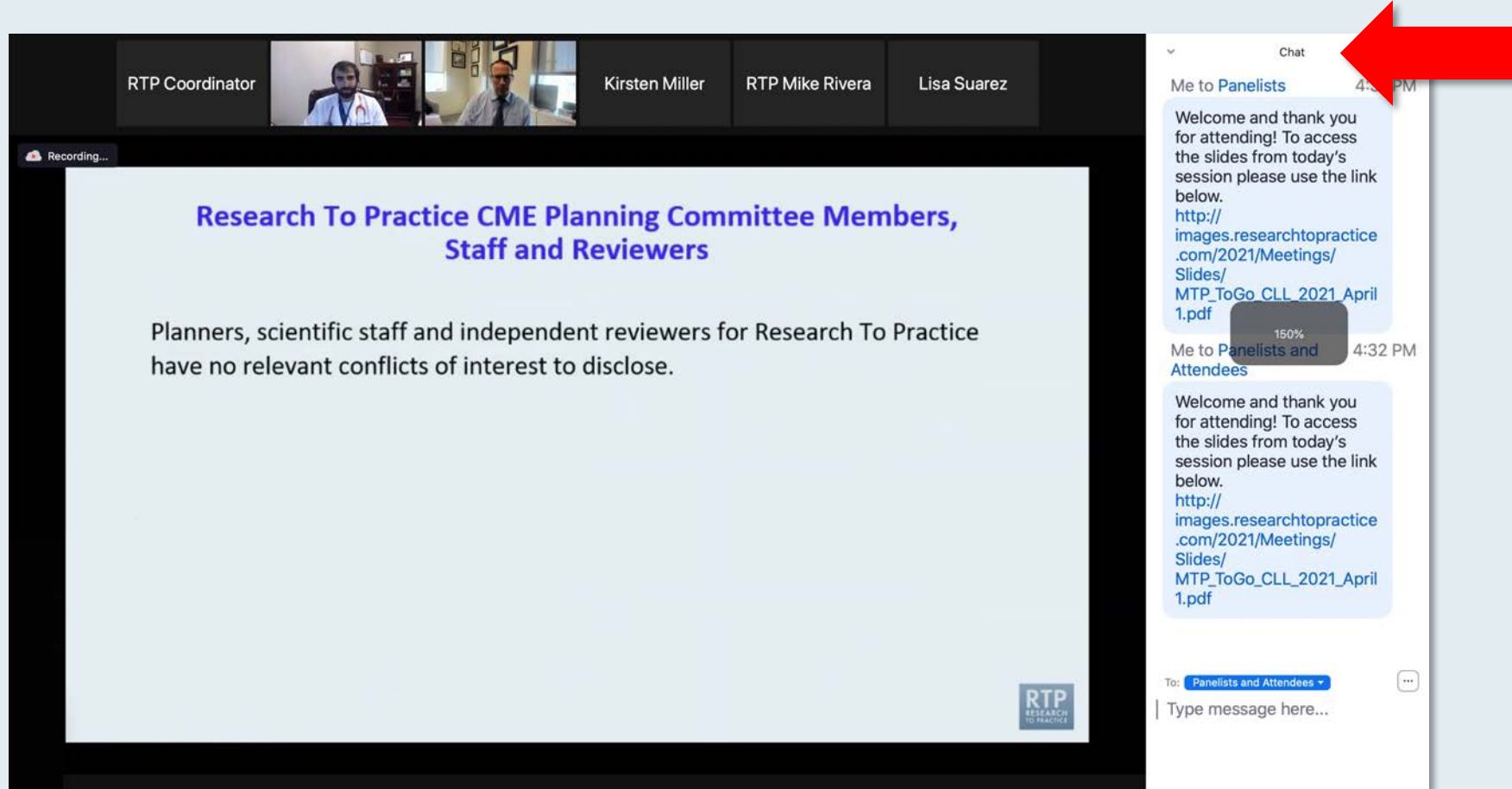
- John N Allan, MD**
Assistant Professor of Medicine
Weill Cornell Medicine
New York, New York
- Ian W Flinn, MD, PhD**
Director of Lymphoma Research Program
Sarah Cannon Research Institute
Tennessee Oncology
Nashville, Tennessee
- Steven Coutre, MD**
Professor of Medicine (Hematology)
Stanford University School of Medicine
Stanford, California
- Prof John G Gribben, MD, DSc, FMedSci**
Chair of Medical Oncology
Barts Cancer Institute
Queen Mary University of London
Charterhouse Square
London, United Kingdom
- Matthew S Davids, MD, MMSc**
Associate Professor of Medicine
Harvard Medical School
Director of Clinical Research
Division of Lymphoma
Dana-Farber Cancer Institute
Boston, Massachusetts
- Brian T Hill, MD, PhD**
Director, Lymphoid Malignancy Program
Cleveland Clinic Taussig Cancer Institute
Cleveland, Ohio

The chat window on the right is titled 'Chat' and shows two messages from 'Me to Panelists' and 'Me to Panelists and Attendees' at 4:31 PM and 4:32 PM respectively. Both messages welcome attendees and provide a link to access slides: http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf. At the bottom of the chat window, there is a 'To:' dropdown menu set to 'Panelists and Attendees' and a text input field labeled 'Type message here...'. A large red arrow points to this input field.

Drag the white line above the submission box up to create more space for your message.

Familiarizing Yourself with the Zoom Interface

Increase chat font size



The screenshot displays a Zoom meeting interface. At the top, a gallery view shows participants: RTP Coordinator, Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. The main area shows a presentation slide titled "Research To Practice CME Planning Committee Members, Staff and Reviewers" with the text: "Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose." A "Recording..." indicator is visible in the top left of the slide area. On the right, the chat window is open, showing a message from "Me to Panelists" with a link to a PDF. A red arrow points to the chat window's font size control, which is currently set to 150%. The chat input field at the bottom shows "To: Panelists and Attendees" and "Type message here..."

**Press Command (for Mac) or Control (for PC) and the + symbol.
You may do this as many times as you need for readability.**

ONCOLOGY TODAY

WITH DR NEIL LOVE

Side Effects of Hormonal Therapy in Prostate Cancer



DR ROBERTO IACOVELLI

FONDAZIONE POLICLINICO
UNIVERSITARIO A GEMELLI



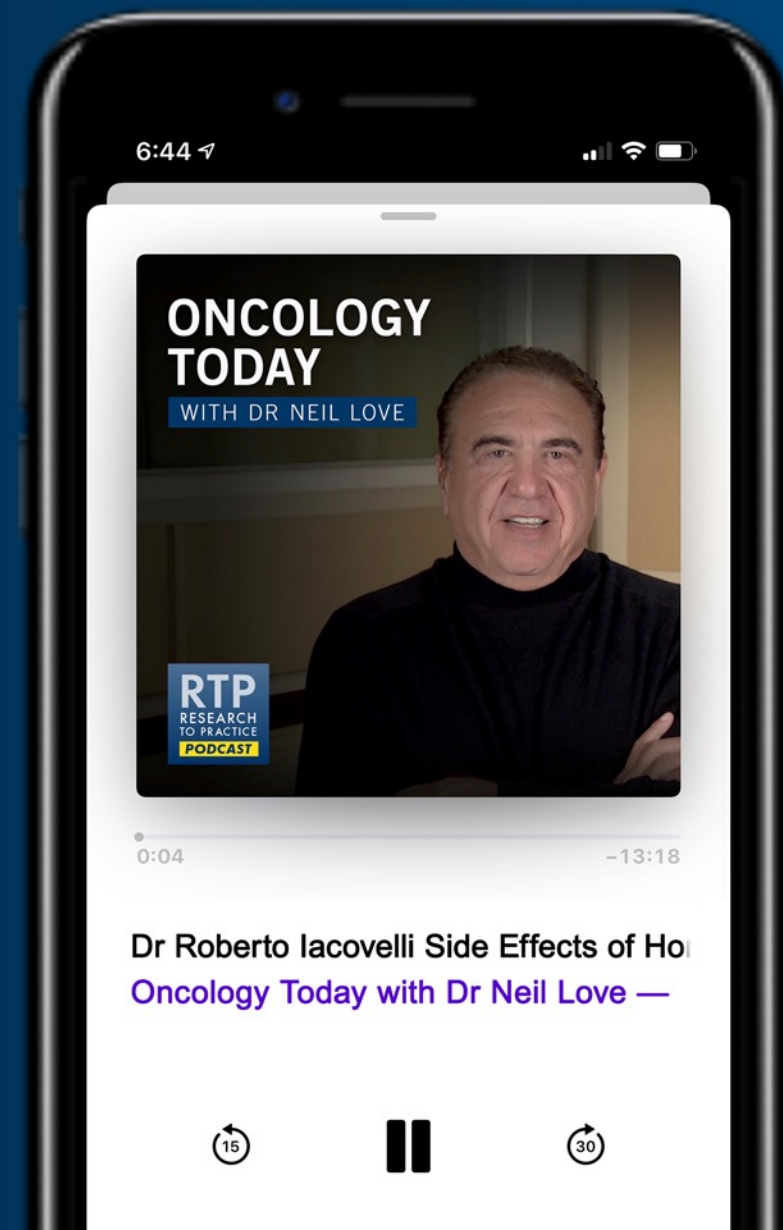
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Data + Perspectives: Clinical Investigators Discuss the Current and Future Management of Acute Myeloid Leukemia and Myelodysplastic Syndromes

*A Virtual CME Satellite Symposium During the Society of
Hematologic Oncology 2021 Annual Meeting*

**Wednesday, September 8, 2021
7:30 PM – 9:00 PM Central Time**

Faculty

**Courtney D DiNardo, MD, MSCE
Daniel A Pollyea, MD, MS
David Sallman, MD
Eunice S Wang, MD**

Moderator

Neil Love, MD

Exploring Key Issues Affecting the Care of Patients with Metastatic Colorectal Cancer with BRAF Mutations

A CME/MOC-Accredited Virtual Event

**Thursday, September 9, 2021
5:00 PM – 6:00 PM ET**

Faculty

Scott Kopetz, MD, PhD

Consulting Clinical Investigator

Wells A Messersmith, MD

Moderator

Neil Love, MD

Expert Second Opinion: Investigators Discuss Available Clinical Research in the Care of Patients with Early-Stage Non-Small Cell Lung Cancer

*A Live Webinar Held as a Satellite CME/MOC Symposium During the IASLC 2021
World Conference on Lung Cancer Worldwide Virtual Event*

Sunday, September 12, 2021

9:15 PM – 10:15 PM MDT / 11:15 PM – 12:15 AM ET

Faculty

Edward B Garon, MD, MS

Harvey I Pass, MD

Heather Wakelee, MD

Moderator

Neil Love, MD

What Urologists Want To Know: Addressing Current Questions and Controversies in the Management of Bladder Cancer

*A Virtual CME Satellite Symposium During the
American Urological Association (AUA) 2021 Annual Meeting*

Monday, September 13, 2021

11:00 AM – 12:30 PM ET / 8:00 AM – 9:30 AM PT

Faculty

Arjun Balar, MD

Ashish M Kamat, MD, MBBS

Guru Sonpavde, MD

Moderator

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Maha Hussain, MD, FACP, FASCO

A Oliver Sartor, MD

Neal D Shore, MD

Additional faculty to be announced

Moderator

Neil Love, MD

Meet The Professor

Optimizing the Clinical Management of Hodgkin and Non-Hodgkin Lymphomas

**Thursday, September 16, 2021
5:00 PM – 6:00 PM ET**

Faculty

Loretta J Nastoupil, MD

Moderator

Neil Love, MD

Thank you for joining us!

***NCPD credit information will be emailed
to each participant shortly.***

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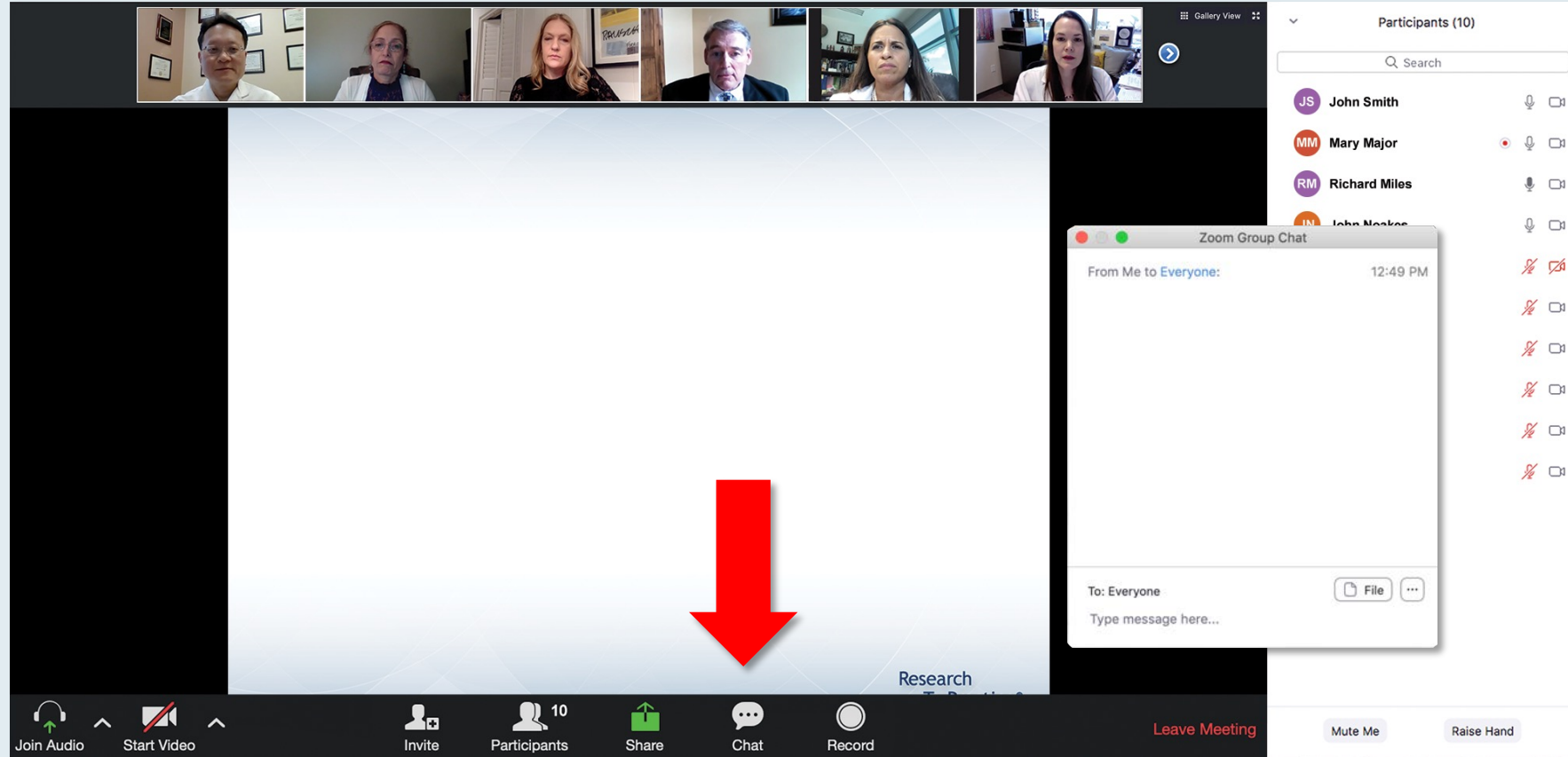


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Oncology Grand Rounds Nursing Webinar Series

April 2021

Monday	Tuesday	Wednesday	Thursday	Friday
19	20	21	22	23
	Breast Ca 8:30 AM <hr/> Lung Ca 5:00 PM	AML 12:00 PM <hr/> CRC and GE Ca 4:45 PM	Prostate Ca 8:30 AM <hr/> Lymphomas 5:00 PM	
26	27	28	29	30
	Multiple Myeloma 8:30 AM <hr/> GYN 5:00 PM	Bladder Ca 12:00 PM	CLL 8:30 AM <hr/> CAR-T 5:00 PM	

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



Kathleen Burns, NP



Brenda Martone MSN NP-BC AOCNP



Ronald Stein, JD, MSN, NP-C, AOCNP

How was it different to take care of this patient versus another patient in the same oncologic setting? What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?

Research To Practice Education Platform

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

Agenda

Prologue: What are some of the unique psychosocial issues associated with the clinical care of patients with prostate cancer?

Case 1: A 70-year-old man with prostate cancer and lymph node and bone metastases

^{177}Lu -PSMA-617: Is the future now?

Case 2: A 70-year-old man with metastatic CRPC with a somatic BRCA2 mutation

Agenda

Prologue: What are some of the unique psychosocial issues associated with the clinical care of patients with prostate cancer?

Case 1: A 70-year-old man with prostate cancer and lymph node and bone metastases

- **For a patient with prior localized prostate cancer with PSA-only recurrence, how do you determine when to use androgen deprivation therapy (ADT), and which treatment do you prefer?**
- **What are the usual side effects of ADT, and what complementary strategies are useful to ameliorate?**
- **For patients with M0 disease and increasing PSA, how do you determine when to bring in additional hormonal therapy, and which treatment do you prefer?**
- **For patients with metastatic prostate cancer, how do you determine whether to use ADT alone or in combination with chemotherapy or other endocrine agents? Which agent(s) do you prefer?**
- **How do you prepare patients to receive the various forms of secondary hormonal therapy (anti-androgens, abiraterone)?**

Agenda

¹⁷⁷Lu-PSMA-617: Is the future now?

- **What is ¹⁷⁷Lu-PSMA-617 targeted therapy? What are the risks and potential benefits of treatment?**

Case 2: A 70-year-old man with metastatic CRPC with a somatic BRCA2 mutation

- **How are treatments sequenced for patients with mCRPC? What are the survival outcomes with each regimen?**
- **When is radium-223 used? What is the tolerability profile? What benefit do patients derive from this treatment?**
- **Which patients with mCRPC are eligible to receive a PARP inhibitor? How is eligibility determined?**
- **How do PARP inhibitors work? What are the risks and potential benefits? How is a specific PARP inhibitor selected?**

Agenda

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Case Presentation – A 70-year-old man with prostate cancer and lymph node and bone metastases

- S/p primary radiation therapy 2010
- 2016: PSA recurrence (M0); initially observed and then started on ADT
- 2020: PSA progression; metastasis noted to lymph nodes and bone; started on abiraterone and then switched to apalutamide
- More recently developed Grade 3 maculopapular skin rash all over body
 - Antihistamines

How was it different to take care of this patient versus another patient in the same oncologic setting? What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?

Case 1 – A 70-year-old man with prostate cancer and lymph node and bone metastases

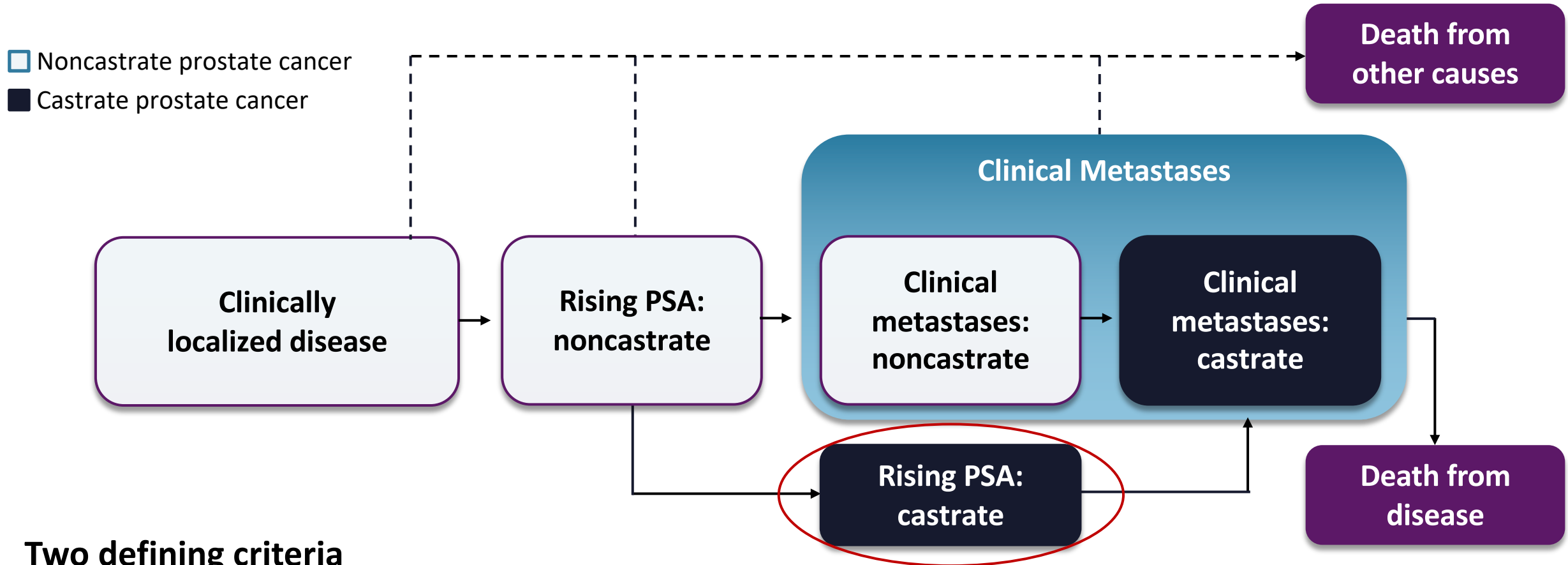
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Results of a Randomized Phase II Trial of Intense Androgen Deprivation Therapy prior to Radical Prostatectomy in Men with High-Risk Localized Prostate Cancer

Rana R. McKay,* Wanling Xie, Huihui Ye,† Fiona M. Fennessy, Zhenwei Zhang, Rosina Lis,† Carla Calagua, Dana Rathkopf,‡ Vincent P. Laudone, Glenn J. Bubley, David J. Einstein,§ Peter K. Chang, Andrew A. Wagner, J. Kellogg Parsons,|| Mark A. Preston, Kerry Kilbridge, Steven L. Chang, Atish D. Choudhury,¶ Mark M. Pomerantz, Quoc-Dien Trinh,** Adam S. Kibel†† and Mary-Ellen Taplin§§,‡‡

***Journal of Urology* 2021;206:80-7.**

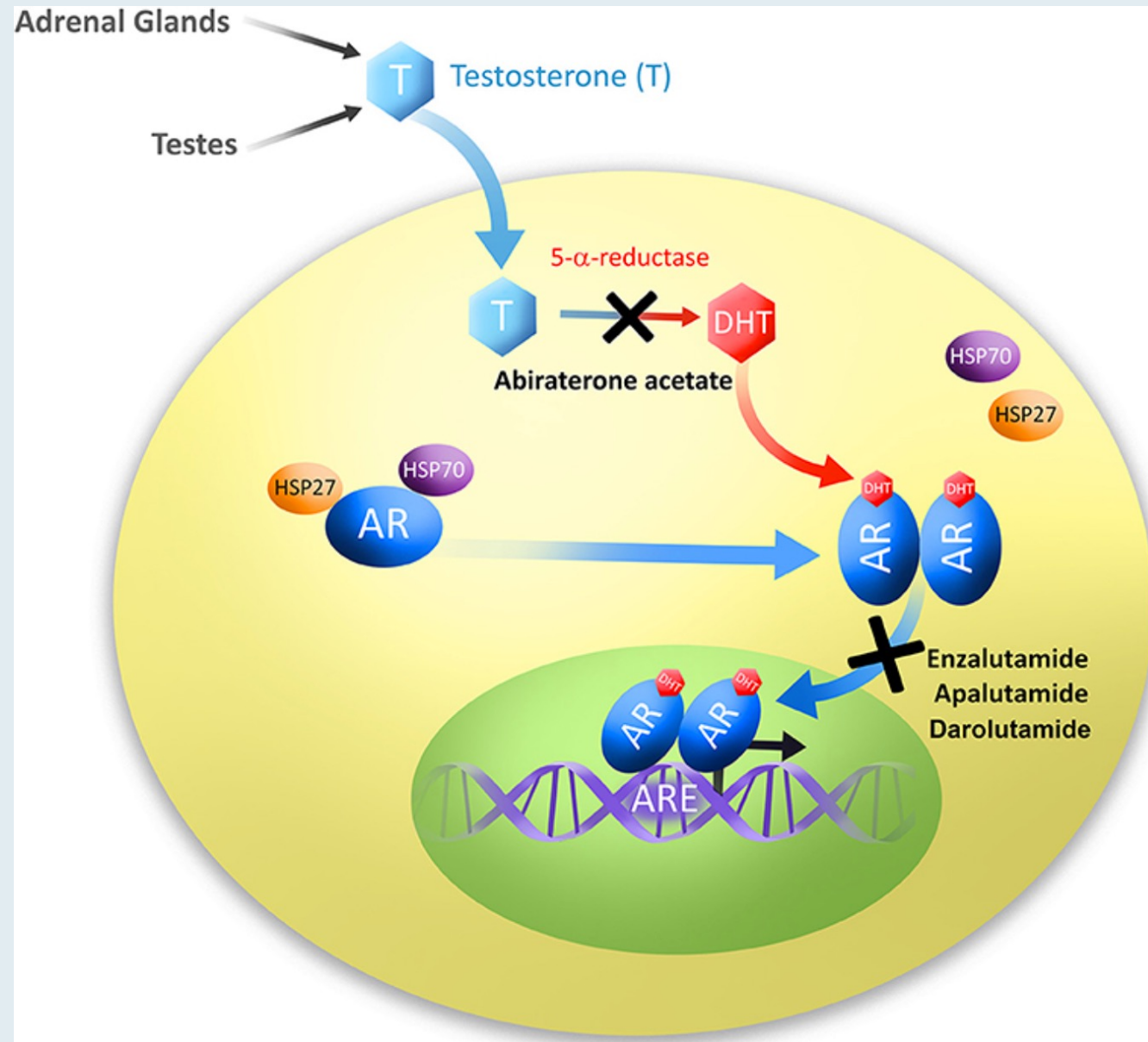
Clinical Disease States Model of Prostate Cancer¹



Two defining criteria

- Rising PSA in the setting of castrate testosterone levels (<50 ng/dL)
- No radiographically identifiable metastasis

Diagram of Androgen Production and Its Targeted Inhibition



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

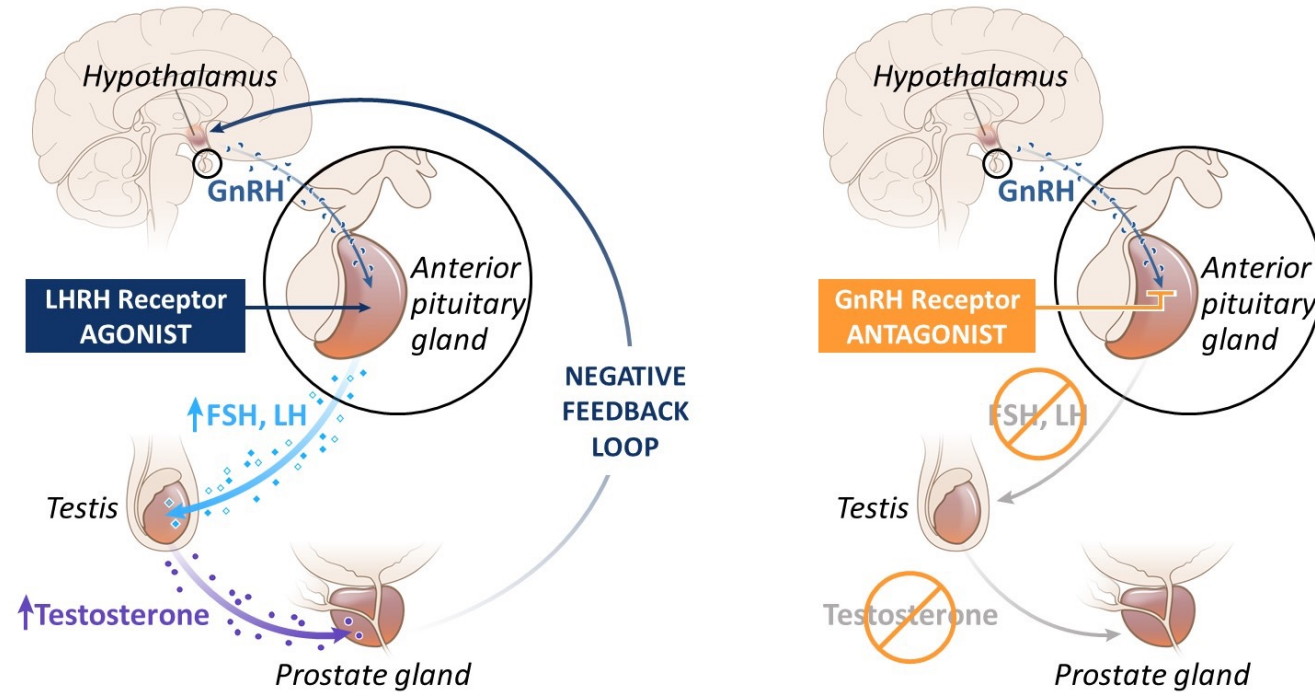
¹ Shore N et al.

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

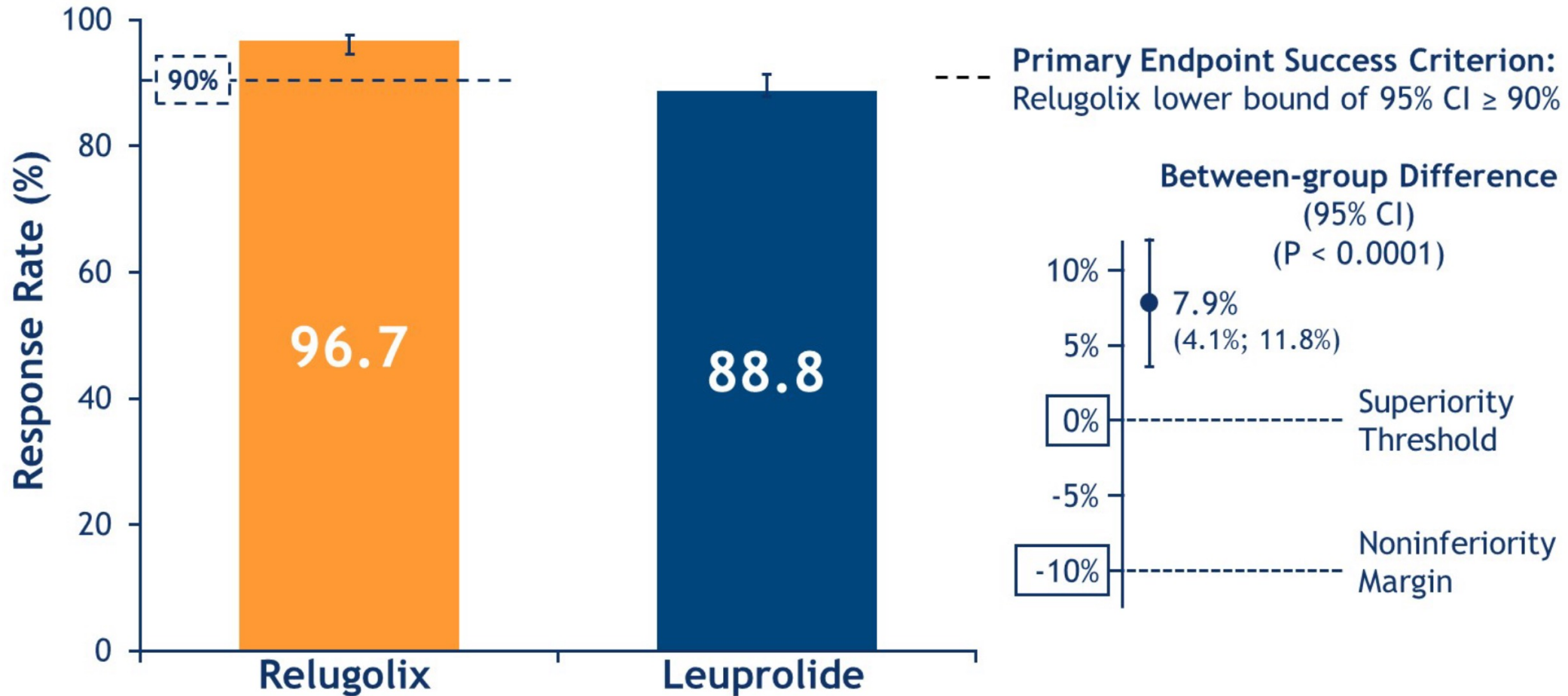
3

	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

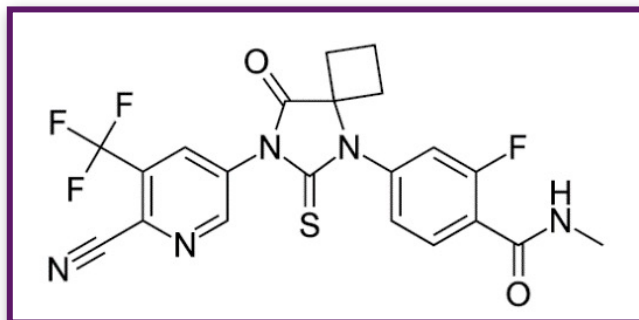
Event	Relugolix (n = 622)		Leuprolide (n = 308)	
	Any grade	Grade 3/4	Any grade	Grade 3/4
Major adverse cardiac event (MACE)*	2.9%	1.3%	6.2%	1.3%
In patients <i>without</i> prior history of MACE	2.8%	—	4.2%	—
In patients <i>with</i> prior history of MACE	3.6%	—	17.8%	—

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

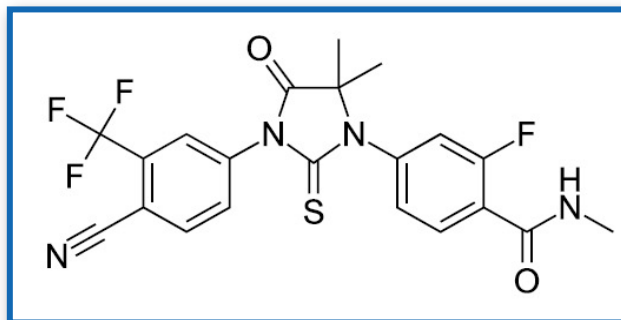
In the subgroup of patients with a reported medical history of MACE, the odds of having an event were 4.8 times as high with leuprolide as with relugolix.

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

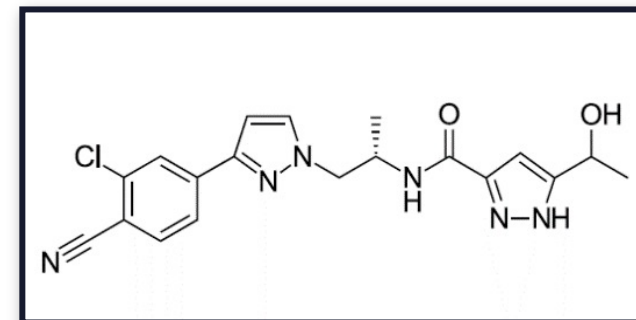
Apalutamide



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*



European Association of Urology

Eur J Cancer 2021;79(1):150-58.

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 Leeⁱ, 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

Toxicity	ARAMIS		PROSPER		SPARTAN	
	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%

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

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

Small EJ et al; SPARTAN Investigators. ASCO 2020;Abstract 5516.

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

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

original report

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., Hirotugu 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*

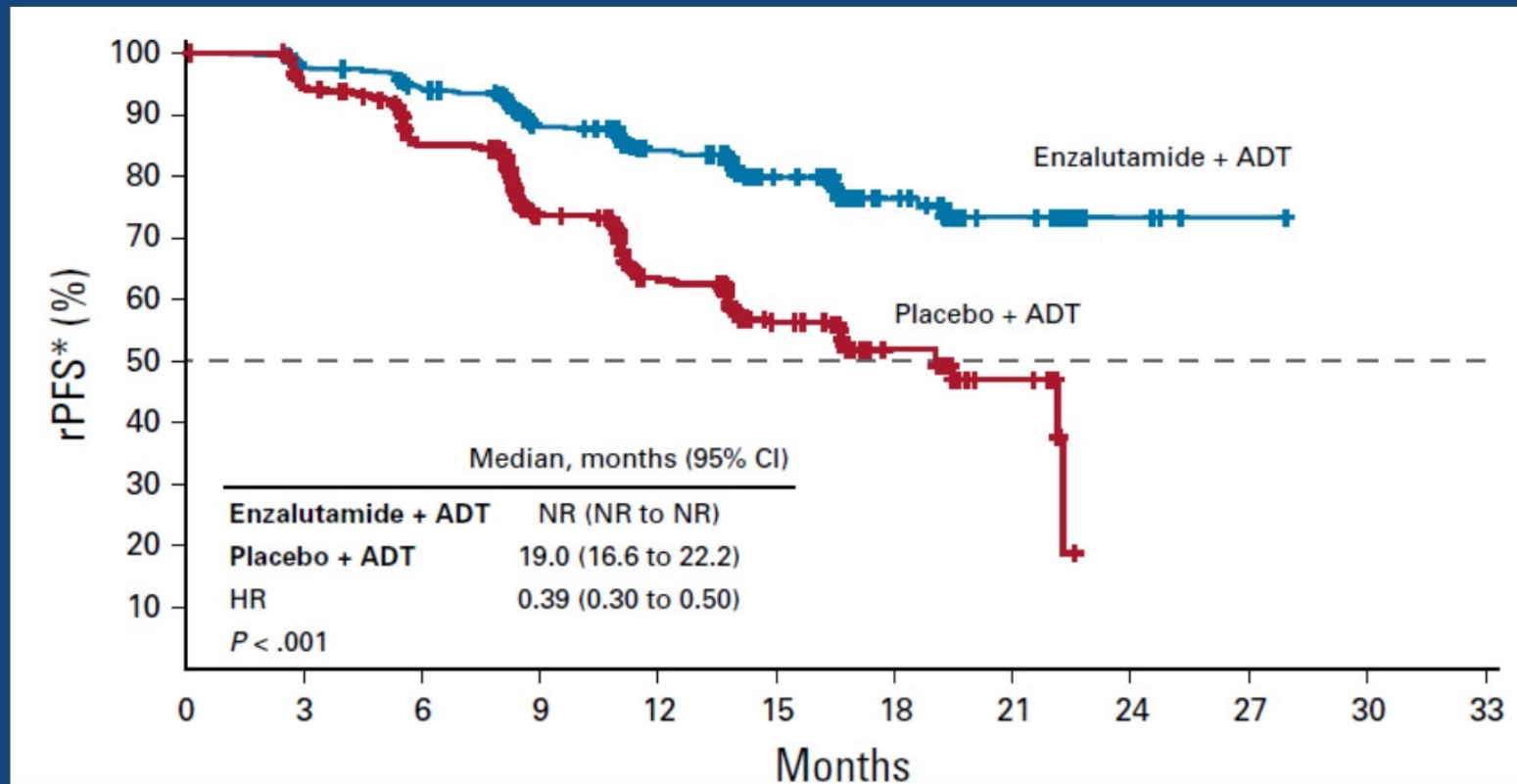
N Engl J Med 2019;381(1):13-24.

Survival Analyses for ARCHES and TITAN: ADT + Enzalutamide or Apalutamide for Metastatic Hormone-Sensitive Prostate Cancer

	ARCHES (N = 1,150)		TITAN (N = 1,052)	
Characteristics	<ul style="list-style-type: none"> 2/3rd high volume 17% prior docetaxel 25% prior RP/XRT 		<ul style="list-style-type: none"> 2/3rd high volume 10% prior docetaxel 17% prior RP/XRT 	
	ADT + enzalutamide (n = 574)	ADT (n = 576)	ADT + apalutamide (n = 955)	ADT (n = 554)
Radiographic PFS	NR	19.0 mo	NR	22.1 mo
	HR (overall): 0.39 <ul style="list-style-type: none"> HR (prior docetaxel): 0.52 HR (high volume): 0.43 HR (low volume): 0.25 		HR (overall): 0.48 <ul style="list-style-type: none"> HR (prior docetaxel): 0.47 HR (high volume): 0.53 HR (low volume): 0.36 	
Overall survival	NR	NR	NR	NR
	HR: 0.81 (immature)		HR (overall): 0.67 <ul style="list-style-type: none"> HR (prior docetaxel): 1.27 HR (high volume): 0.68 HR (low volume): 0.67 	

NR = not reached

ARCHES: Enzalutamide for mHSPC



Overall Survival: HR 0.81 (95% CI 0.53, 1.25), $P=0.3361$ but survival data were immature with only 14.4 months median follow-up and 84 deaths

Armstrong et al (2019) *J Clin Oncol* 37: 2974-2986

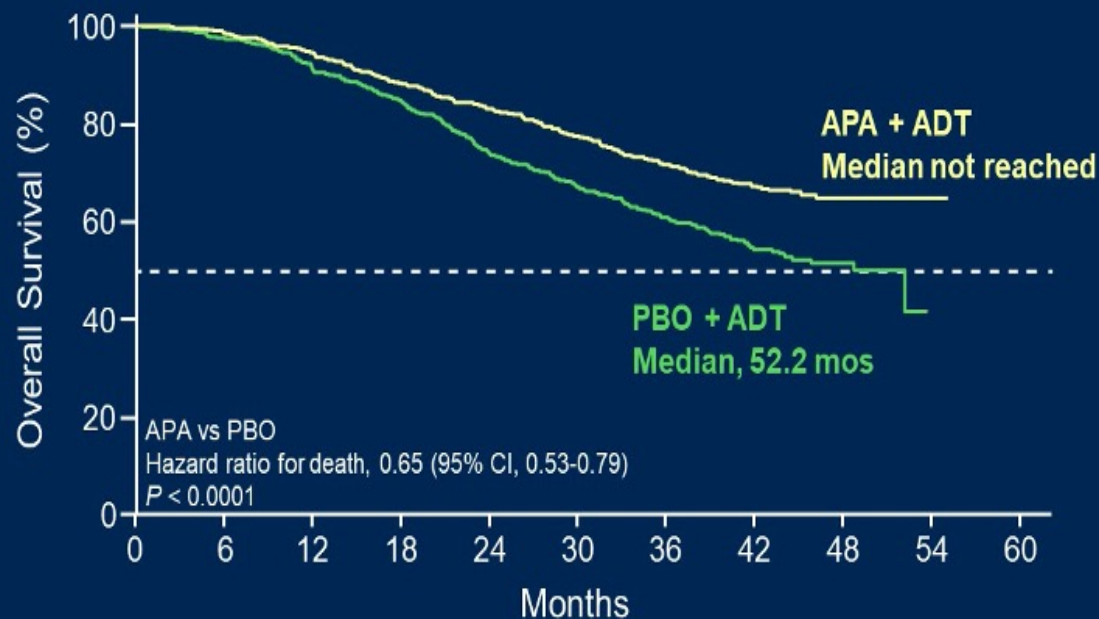
PRESENTED AT: **2020 ASCO**
ANNUAL MEETING

#ASCO20
Slides are the property of the author,
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PRESENTED BY: Neal Shore, MD, FACS

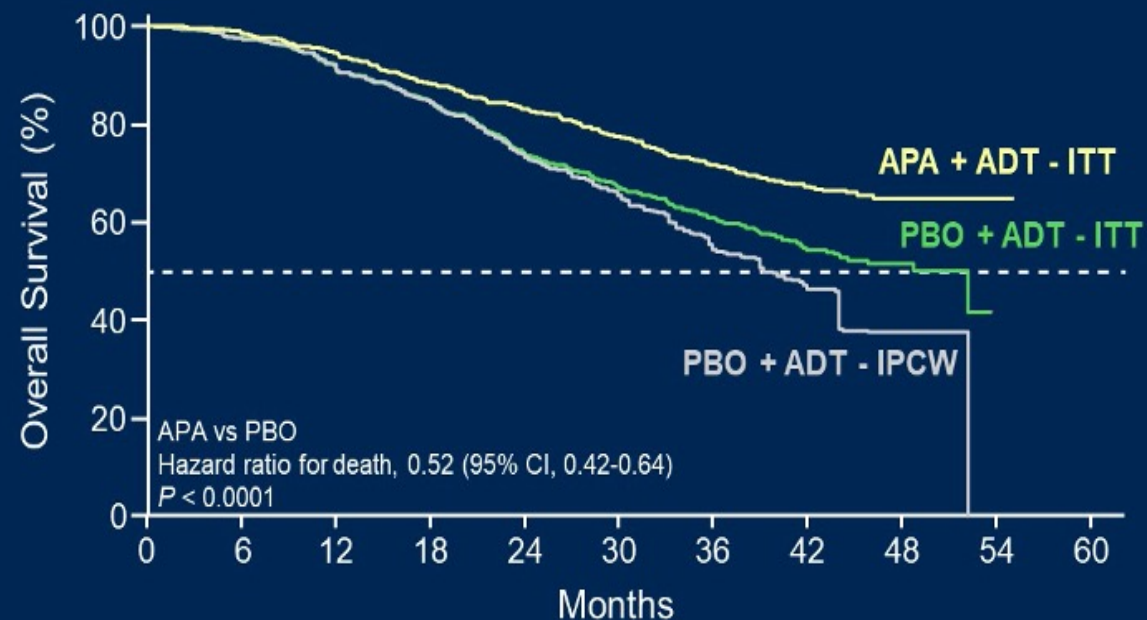
TITAN – Final Analysis: Overall Survival

OS (coprimary endpoint)
Median follow-up: 44.0 months



No. at risk:											
APA + ADT	525	513	489	452	425	394	362	227	52	3	0
PBO + ADT	527	510	474	436	374	339	301	181	43	0	0

OS with adjustment for ~40%
crossover from PBO



No. at risk:											
APA + ADT	525	513	489	452	425	394	362	227	52	3	0
PBO + ADT	527	510	474	436	374	339	301	181	43	0	0

A PHASE 3 TRIAL WITH A 2X2 FACTORIAL DESIGN OF ABIRATERONE ACETATE PLUS PREDNISONE AND/OR LOCAL RADIOTHERAPY IN MEN WITH *DE NOVO* METASTATIC CASTRATION-SENSITIVE PROSTATE CANCER (mCSPC): FIRST RESULTS OF PEACE-1

Karim Fizazi, MD, PhD

Institut Gustave Roussy, France

June 8, 2021

Karim Fizazi, Xavier Maldonado, 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, Isabelle Rieger, Marie-Laure Tanguy, Alberto Bossi

Design of PEACE-1

Key Eligibility Criteria

De novo mCSPC

Distant metastatic disease by ≥ 1 lesion on bone scan and/or CT scan

ECOG PS 0 -2

On-Study Requirement

Continuous ADT

Permitted

ADT ≤ 3 months

Stratification

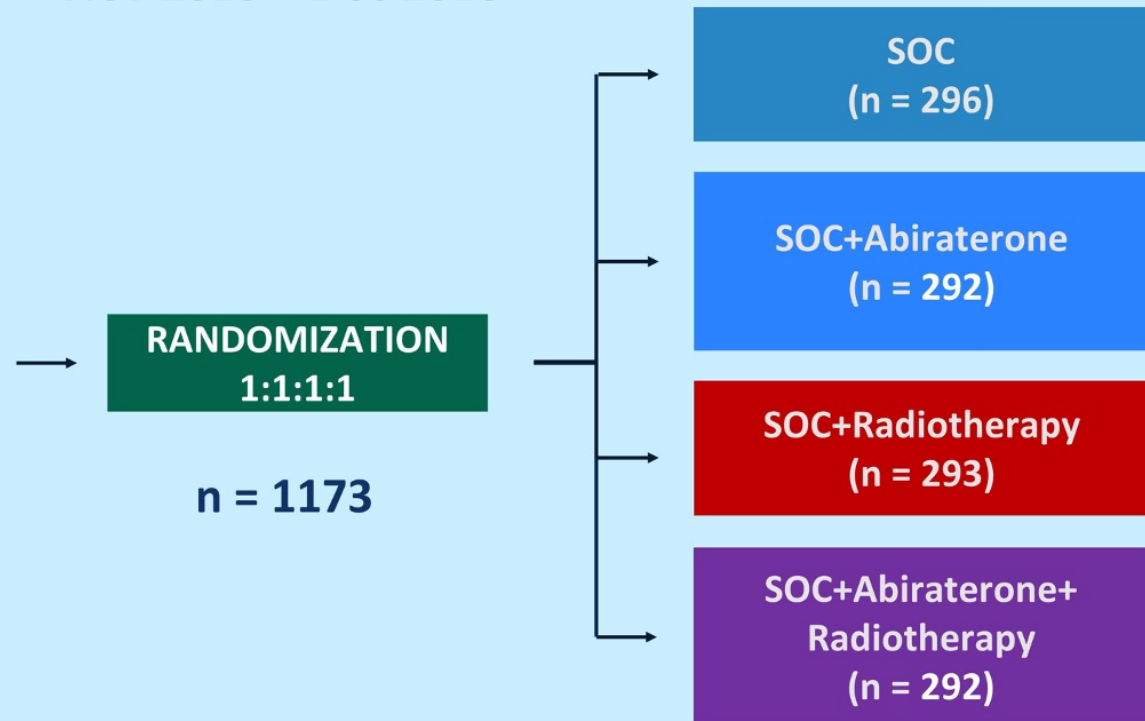
ECOG PS (0 vs 1-2)

Metastatic sites (LN vs bone vs visceral)

Type of castration (orchidectomy vs LHRH agonist vs LHRH antagonist)

Docetaxel (yes vs no)

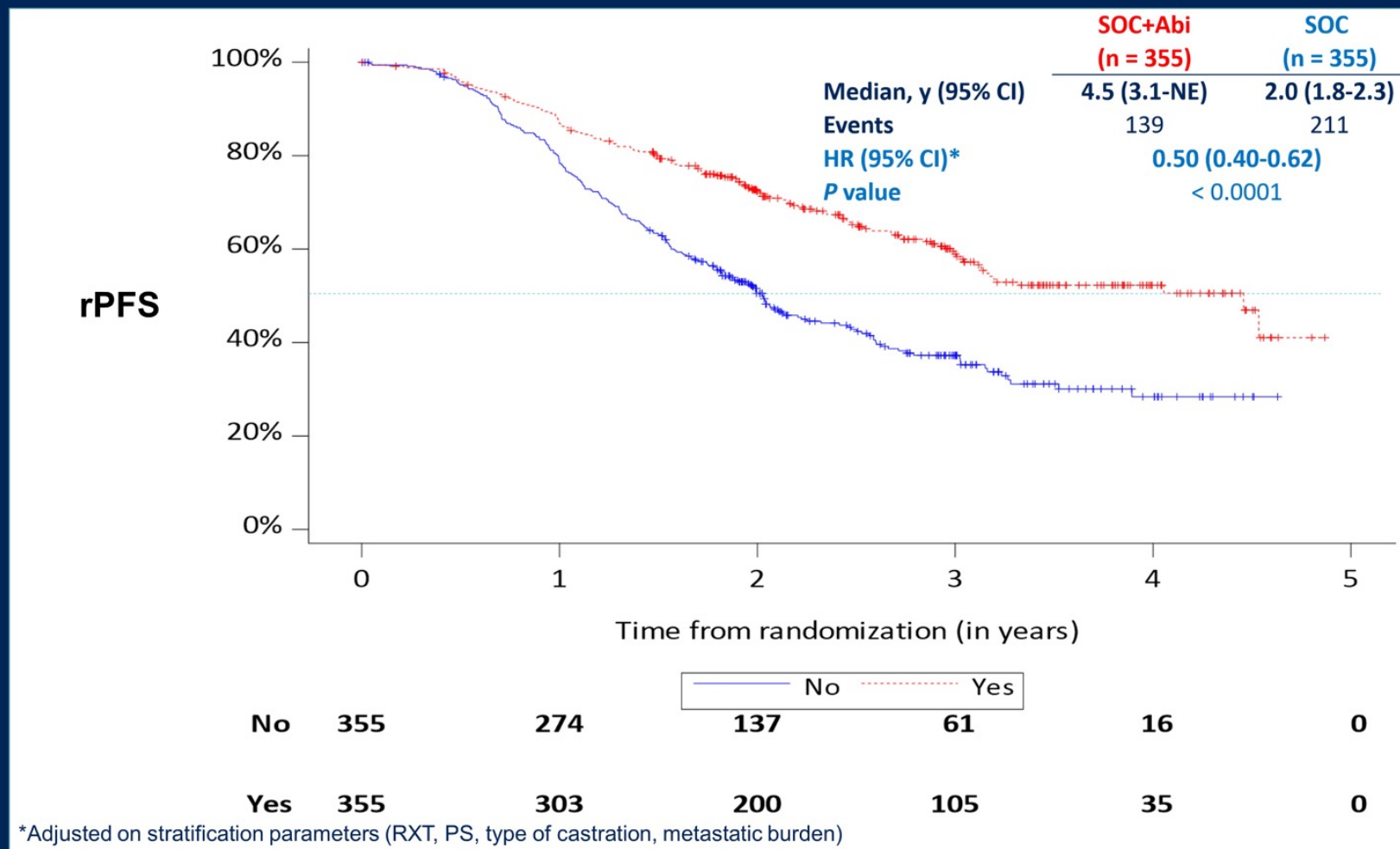
Nov 2013 – Dec 2018



ECOG PS, Eastern Cooperative Oncology Group performance status

Radiographic Progression-Free Survival (rPFS)

ADT+Docetaxel population: SOC=ADT+Docetaxel (+/- RXT)



Agenda

¹⁷⁷Lu-PSMA-617: Is the future now?

- **What is ¹⁷⁷Lu-PSMA-617 targeted therapy? What are the risks and potential benefits of treatment?**

Case 2: A 70-year-old man with metastatic CRPC with a somatic BRCA2 mutation

- **How are treatments sequenced for patients with mCRPC? What are the survival outcomes with each regimen?**
- **When is radium-223 used? What is the tolerability profile? What benefit do patients derive from this treatment?**
- **Which patients with mCRPC are eligible to receive a PARP inhibitor? How is eligibility determined?**
- **How do PARP inhibitors work? What are the risks and potential benefits? How is a specific PARP inhibitor selected?**

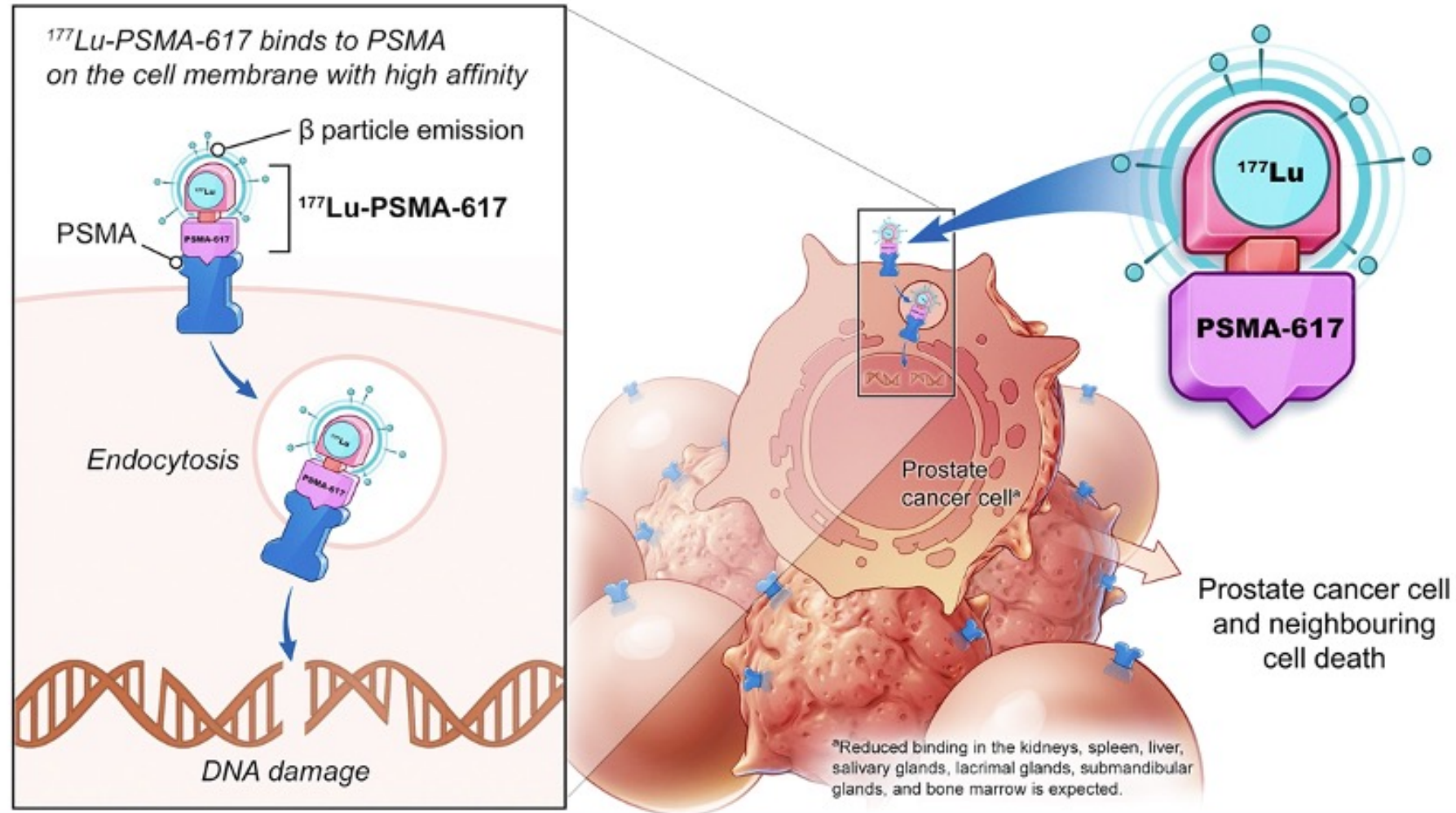
Phase 3 study of ^{177}Lu -PSMA-617 in patients with metastatic castration-resistant prostate cancer (VISION)

MJ Morris, J de Bono, KN Chi, K Fizazi, K Herrmann, K Rahbar, ST Tagawa, LT Nordquist, N Vaishampayan, G El-Haddad, CH Park, TM Beer, WJ Perez-Contreras, M DeSilvio, E Kpamegan, G Gericke, RA Messmann, BJ Krause, AO Sartor, VISION Investigators

**Mary-Ellen Taplin, MD
Dana-Farber Cancer Institute
Boston, MA**

June 6, 2021

^{177}Lu -PSMA-617 targeted radioligand therapy



Open-label study of protocol-permitted standard of care ± ^{177}Lu -PSMA-617 in adults with PSMA-positive mCRPC

Eligible patients

- Previous treatment with both
 - ≥ 1 androgen receptor pathway inhibitor
 - 1 or 2 taxane regimens
- Protocol-permitted standard of care (SOC) planned before randomization
 - Excluding chemotherapy immunotherapy, radium-223, investigational drugs
- ECOG performance status 0–2
- Life expectancy > 6 months
- PSMA-positive mCRPC on PET/CT with ^{68}Ga -PSMA-11

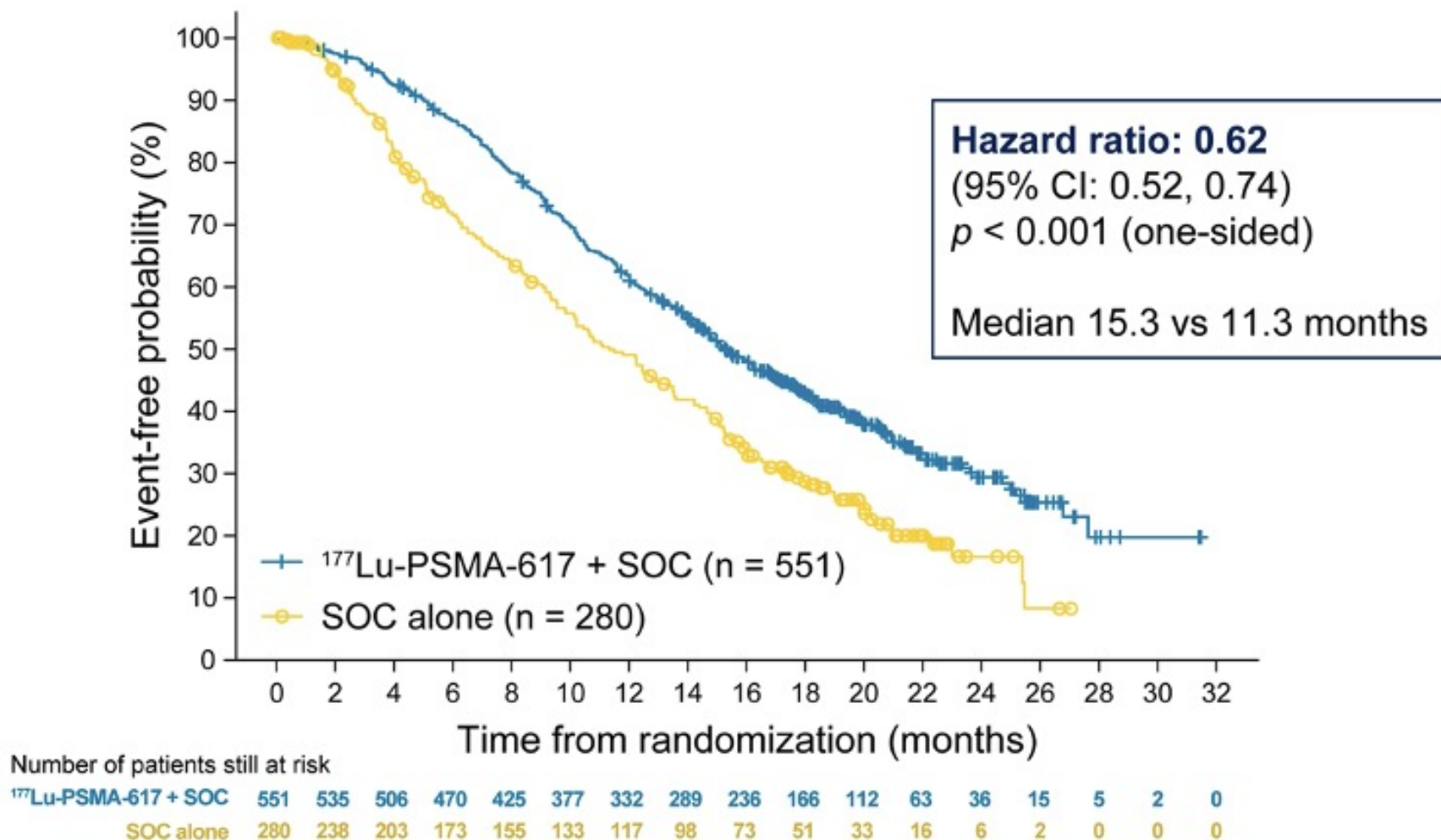


- Randomization stratified by
 - ECOG status (0–1 or 2)
 - LDH (high or low)
 - Liver metastases (yes or no)
 - Androgen receptor pathway inhibitors in SOC (yes or no)
- CT/MRI/bone scans
 - Every 8 weeks (treatment)
 - Every 12 weeks (follow-up)
 - Blinded independent central review

Primary endpoints: ^{177}Lu -PSMA-617 prolonged OS

Primary analysis

All randomized patients
(N = 831)



Treatment-emergent adverse events grouped as topics of interest: no unexpected or concerning safety signals

Patients, n (%)	All grades		Grade 3–5	
	¹⁷⁷ Lu-PSMA-617 + SOC (n = 529)	SOC alone (n = 205)	¹⁷⁷ Lu-PSMA-617 + SOC (n = 529)	SOC alone (n = 205)
Fatigue	260 (49.1)	60 (29.3)	37 (7.0)	5 (2.4)
Bone marrow suppression	251 (47.4)	36 (17.6)	124 (23.4)	14 (6.8)
Leukopenia	66 (12.5)	4 (2.0)	13 (2.5)	1 (0.5)
Lymphopenia	75 (14.2)	8 (3.9)	41 (7.8)	1 (0.5)
Anemia	168 (31.8)	27 (13.2)	68 (12.9)	10 (4.9)
Thrombocytopenia	91 (17.2)	9 (4.4)	42 (7.9)	2 (1.0)
Dry mouth	208 (39.3)	2 (1.0)	0 (0.0)	0 (0.0)
Nausea and vomiting	208 (39.3)	35 (17.1)	8 (1.5)	1 (0.5)
Renal effects	46 (8.7)	12 (5.9)	18 (3.4)	6 (2.9)
Second primary malignancies	11 (2.1)	2 (1.0)	4 (0.8)	1 (0.5)
Intracranial hemorrhage	7 (1.3)	3 (1.5)	5 (0.9)	2 (1.0)

Presented By: **Michael J. Morris**

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2021 ASCO
ANNUAL MEETING

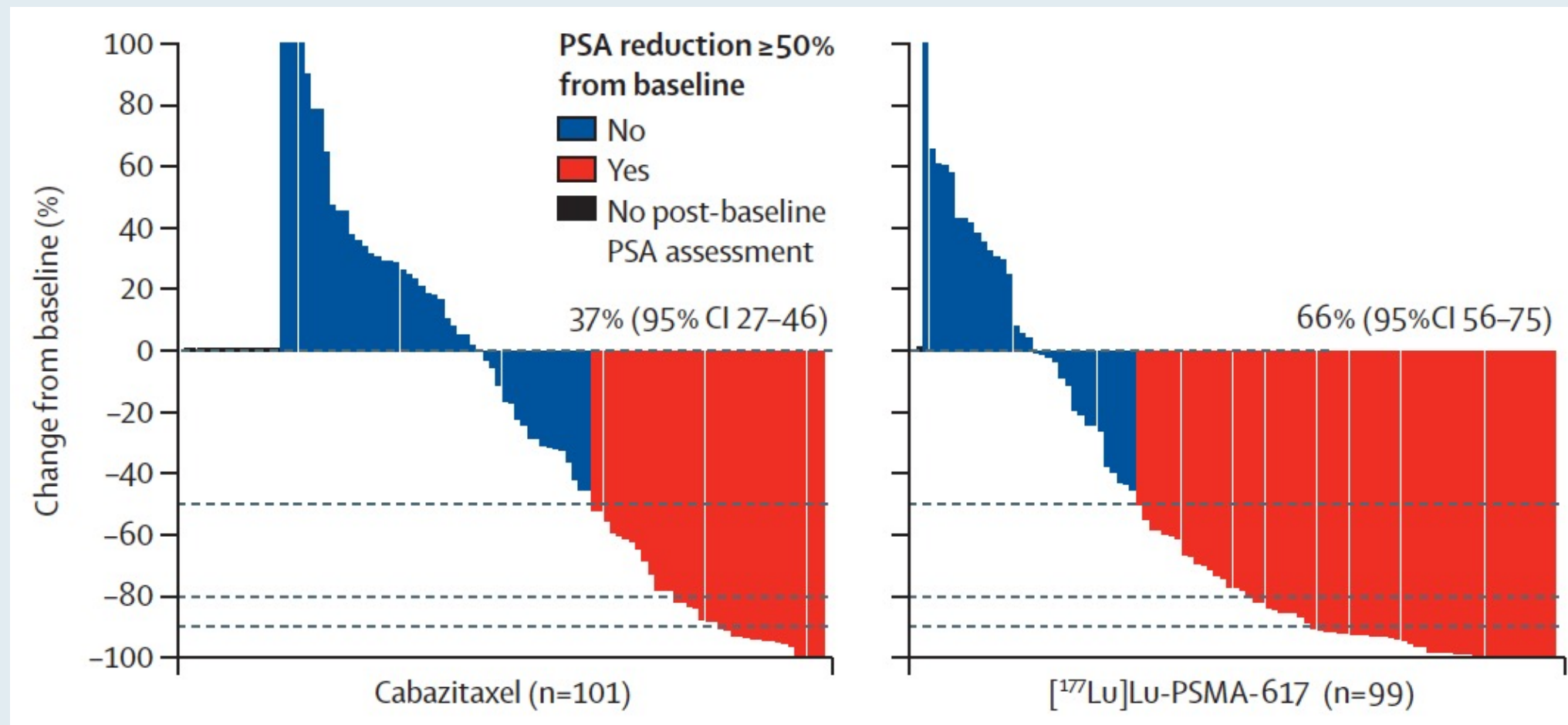
***Lancet* 2021;397:797-804.**

[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 Gedy, 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 $\geq 50\%$



Agenda

¹⁷⁷Lu-PSMA-617: Is the future now?

- **What is ¹⁷⁷Lu-PSMA-617 targeted therapy? What are the risks and potential benefits of treatment?**

Case 2: A 70-year-old man with metastatic CRPC with a somatic BRCA2 mutation

- **How are treatments sequenced for patients with mCRPC? What are the survival outcomes with each regimen?**
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- **How do PARP inhibitors work? What are the risks and potential benefits? How is a specific PARP inhibitor selected?**

Case Presentation – A 70-year-old man with metastatic CRPC with a somatic BRCA2 mutation

- S/p prostatectomy followed by leuprolide for Gleason 9 prostate cancer
- Biochemical recurrence necessitated salvage radiation followed by enzalutamide
- 2020: Abiraterone for second recurrence and radiographic progression seen within 2 months
- Radium-223 x 4 cycles → rising PSA
- Rucaparib initiated
 - Weight loss, nausea, anorexia, drop in hemoglobin from 15-12 g/dL

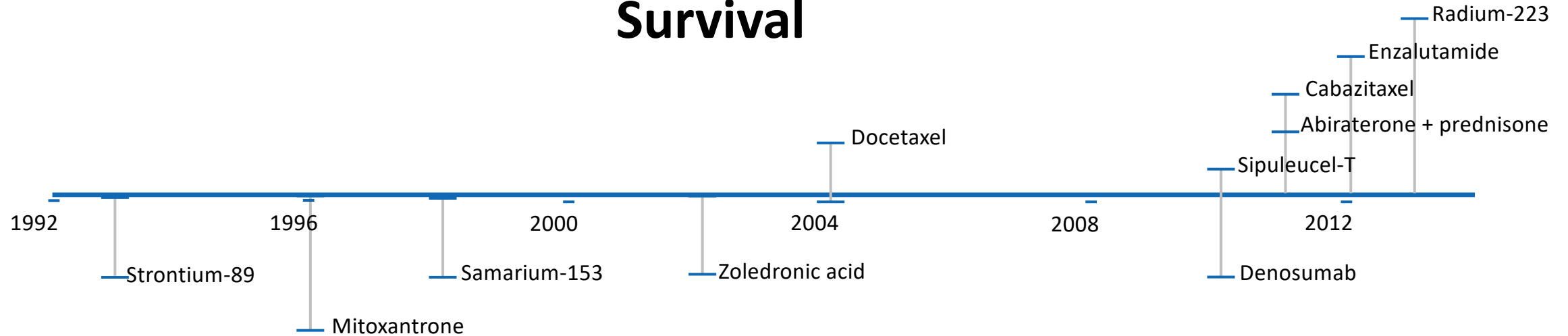
How was it different to take care of this patient versus another patient in the same oncologic setting? What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?

Case 2 – A 70-year-old man with metastatic CRPC with a somatic BRCA2 mutation

- How are treatments sequenced for patients with mCRPC? What are the survival outcomes with each regimen?
- When is radium-223 used? What is the tolerability profile? What benefit do patients derive from this treatment?
- Which patients with mCRPC are eligible to receive a PARP inhibitor? How is eligibility determined?
- How do PARP inhibitors work? What are the risks and potential benefits? How is a specific PARP inhibitor selected?

Timeline of FDA Approvals in Metastatic Castration-Resistant Prostate Cancer

Survival



Palliation

Metastatic disease was defined by conventional imaging (eg, bone scan, CT scans)

Management of Metastatic Castration-Resistant Prostate Cancer (mCRPC)

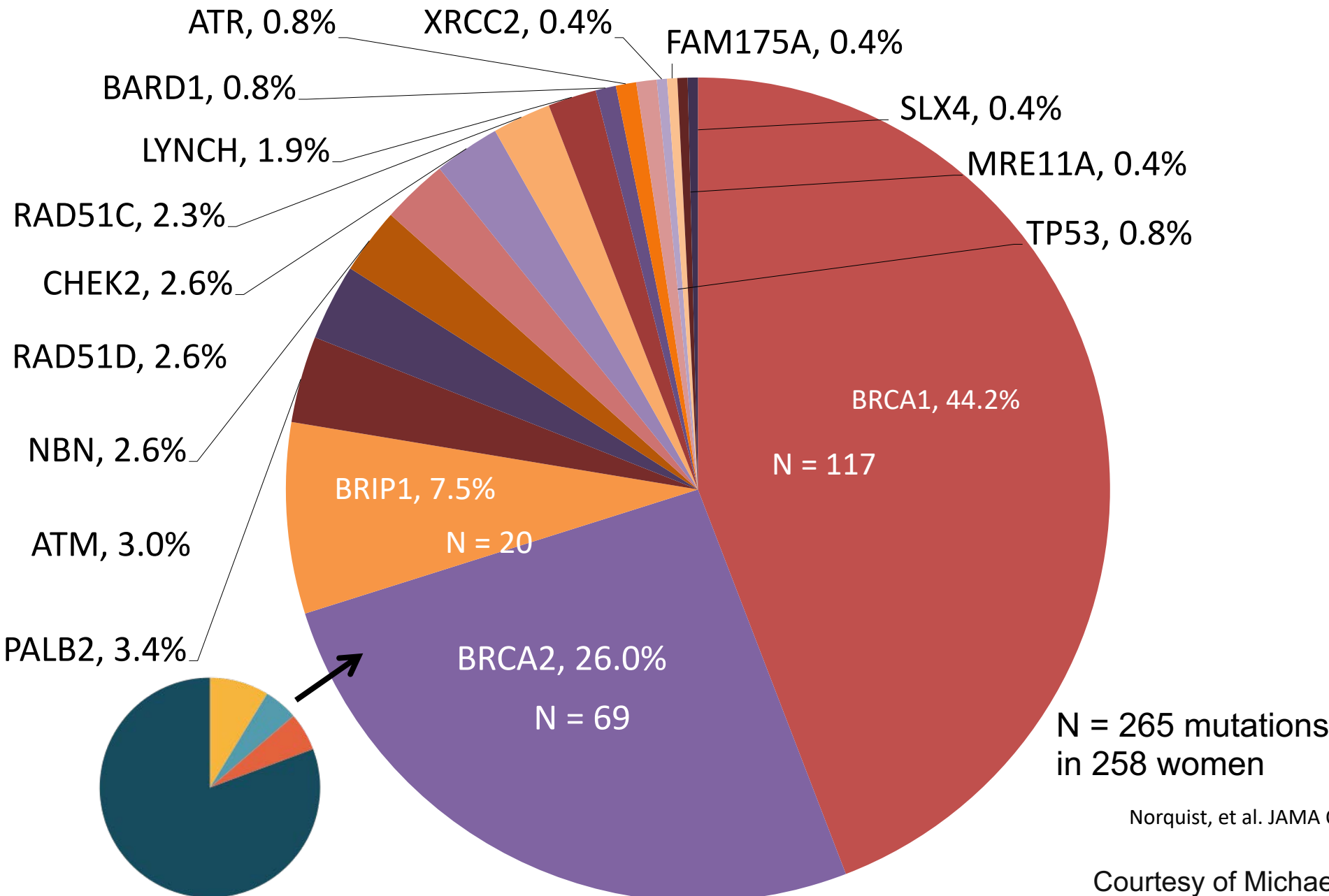
- Enzalutamide
- Abiraterone/prednisone
- Radium-223
- Sipuleucel-T
- Cabazitaxel
- Docetaxel
- PARP inhibitors

Practical Considerations and Challenges for Germline Genetic Testing in Patients With Prostate Cancer: Recommendations From the Germline Genetics Working Group of the PCCTC

Brittany M. Szymaniak, PhD¹; Lauren A. Facchini, MS²; Veda N. Giri, MD³; Emmanuel S. Antonarakis, MD⁴; Tomasz M. Beer, MD⁵; Maria I. Carlo, MD⁶; Daniel C. Danila, MD⁶; Mallika Dhawan, MD⁷; Daniel George, MD⁸; Julie N. Graff, MD⁹; Shilpa Gupta, MD¹⁰; Elisabeth Heath, MD¹¹; Celestia S. Higano, MD¹²; Glenn Liu, MD¹³; Ana M. Molina, MD¹⁴; Channing J. Paller, MD⁴; Akash Patnaik, MD, PhD, MMSc¹⁵; Daniel P. Petrylak, MD¹⁶; Zachery Reichert, MD, PhD¹⁷; Matthew B. Rettig, MD¹⁸; Charles J. Ryan, MD¹⁰; Mary-Ellen Taplin, MD¹⁹; Jake Vinson, BSc²⁰; Young E. Whang, MD, PhD²¹; Alicia K. Morgans, MD, MPH²²; Heather H. Cheng, MD, PhD¹²; and Rana R. McKay, MD²³

JCO Oncology Practice 2020;16:811-2

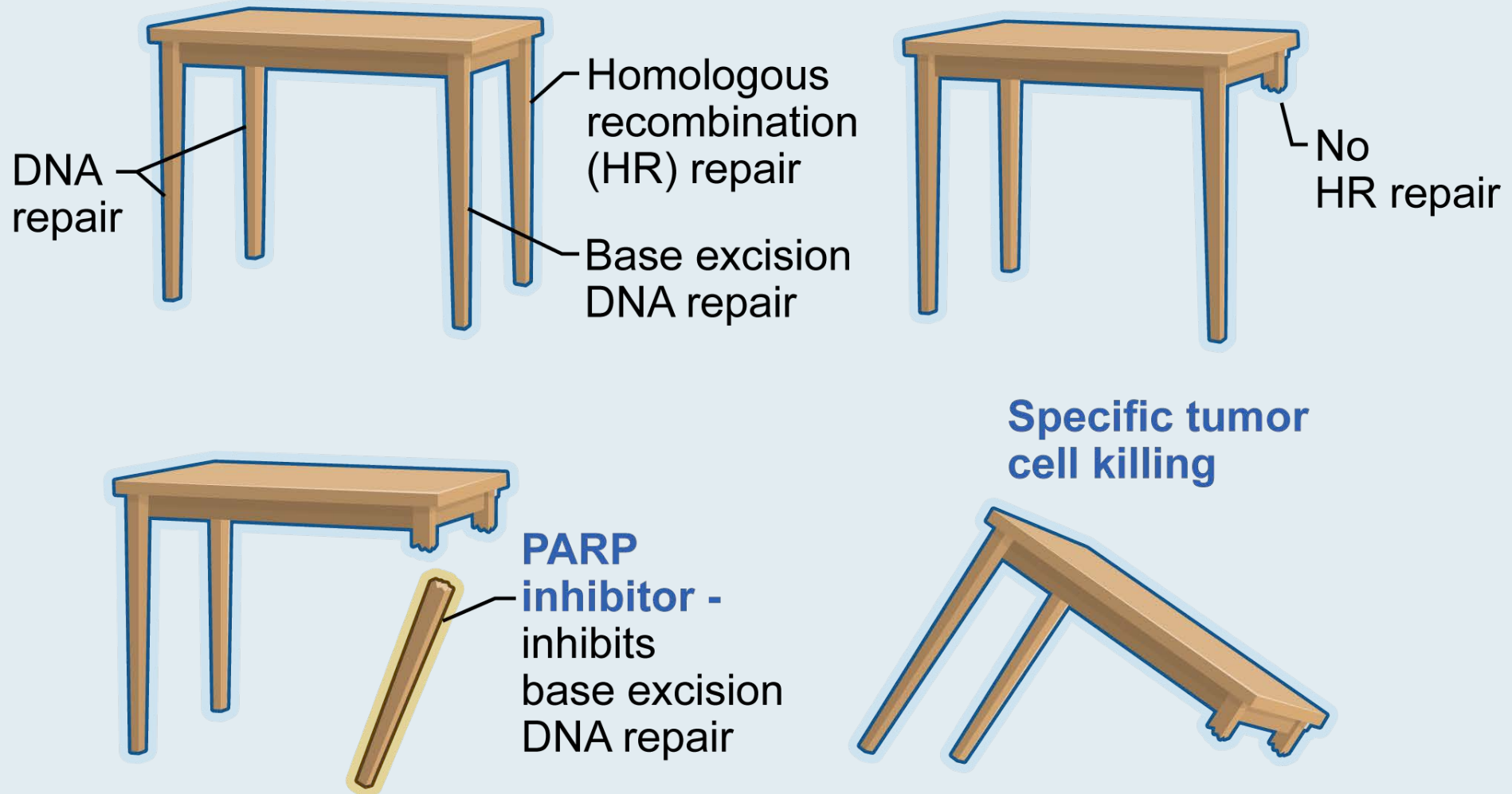
Summary of Germline Cancer-Associated Mutations: GOG 218 and GOG 262



Norquist, et al. JAMA Oncol. 2016;2:482-490.

Courtesy of Michael J Birrer, MD, PhD

Mechanism of Cell Death from Synthetic Lethality Induced by PARP Inhibition



Recent FDA Approvals of PARP Inhibitors for mCRPC

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

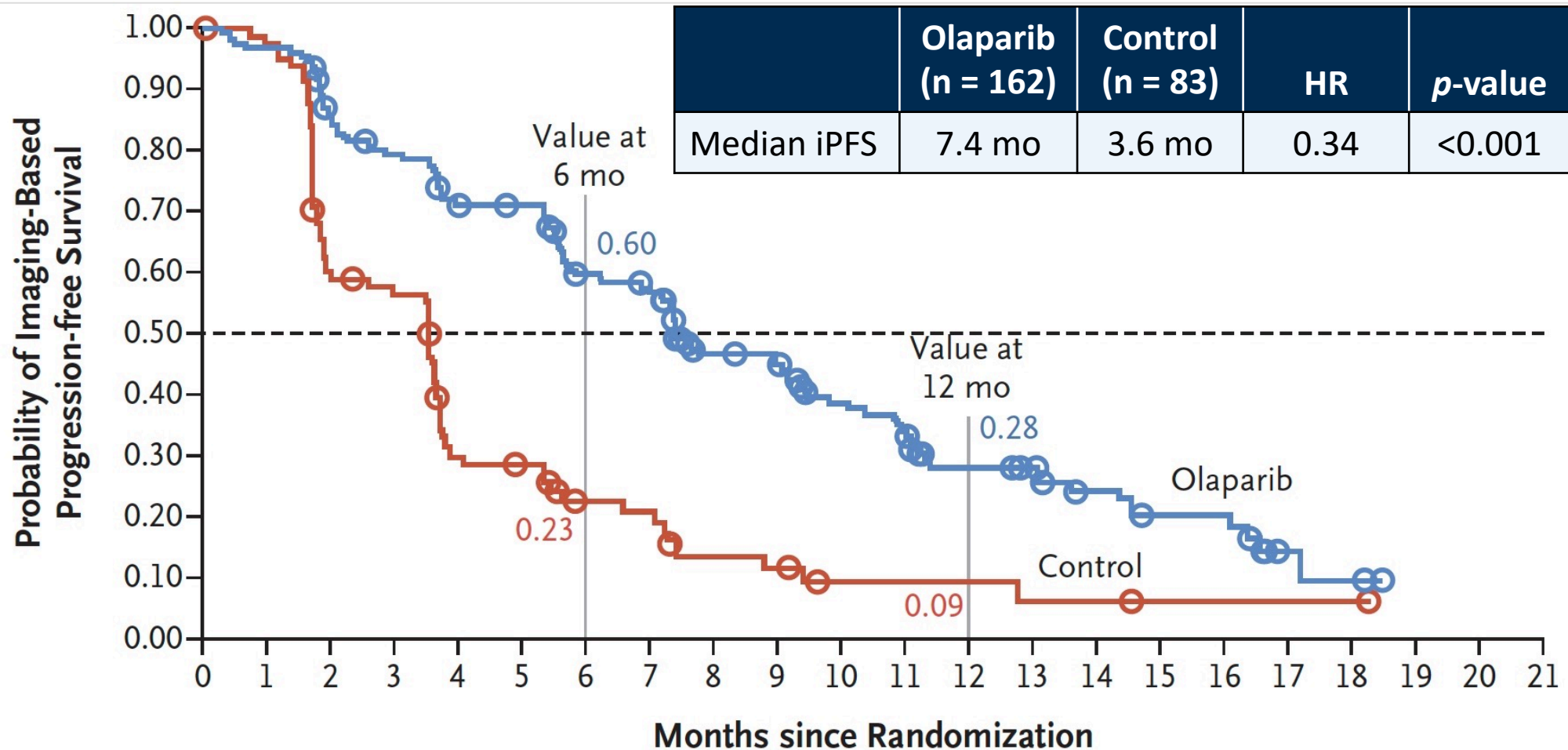
ORIGINAL ARTICLE

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(22):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)



ORIGINAL ARTICLE

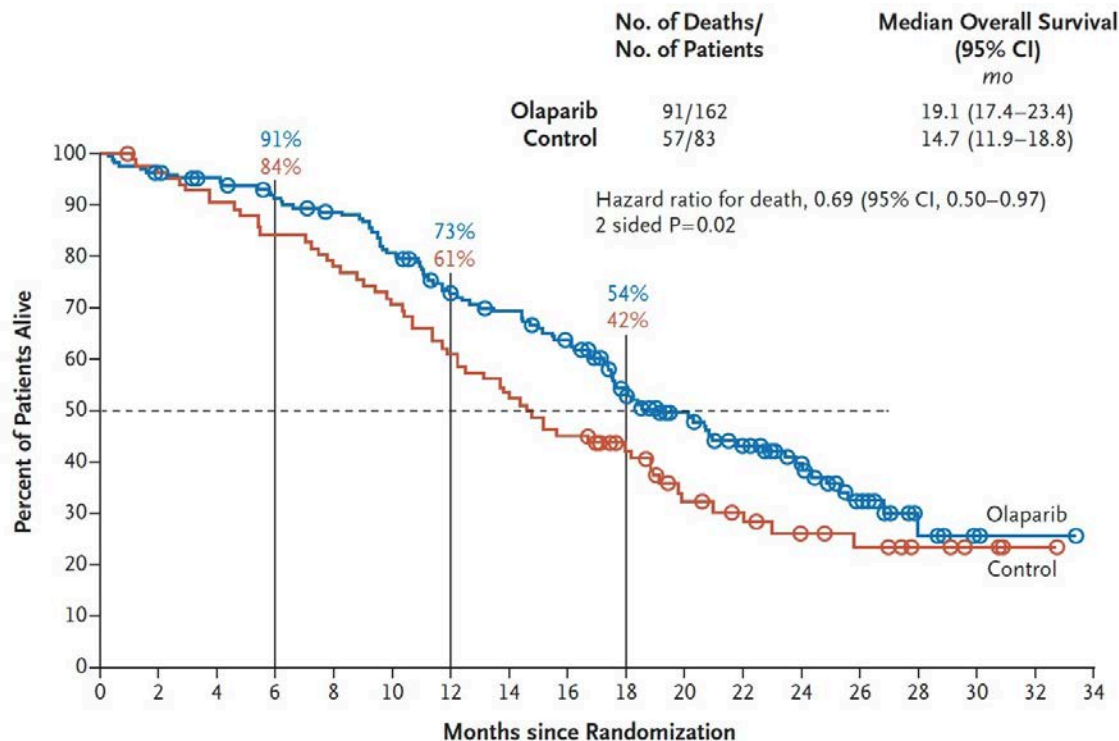
Survival with Olaparib in Metastatic Castration-Resistant Prostate Cancer

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*

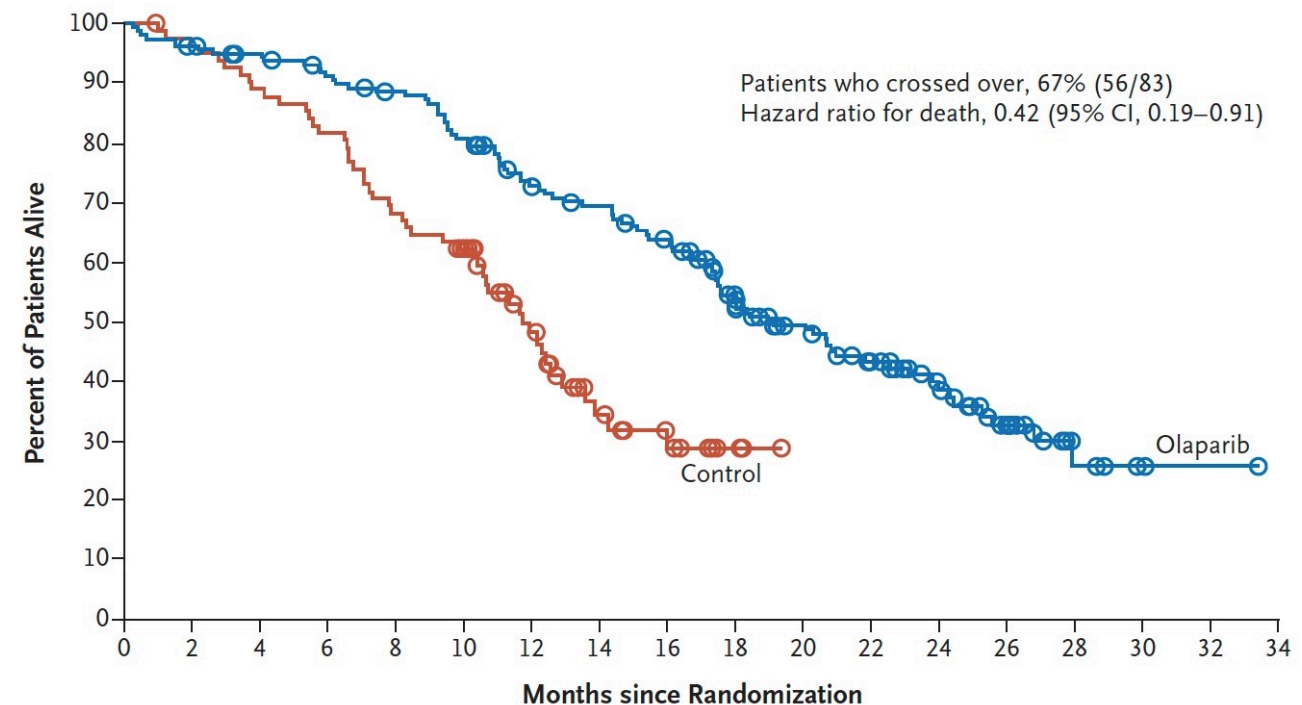
N Engl J Med 2020;383(24):2345-57.

PROfound: 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



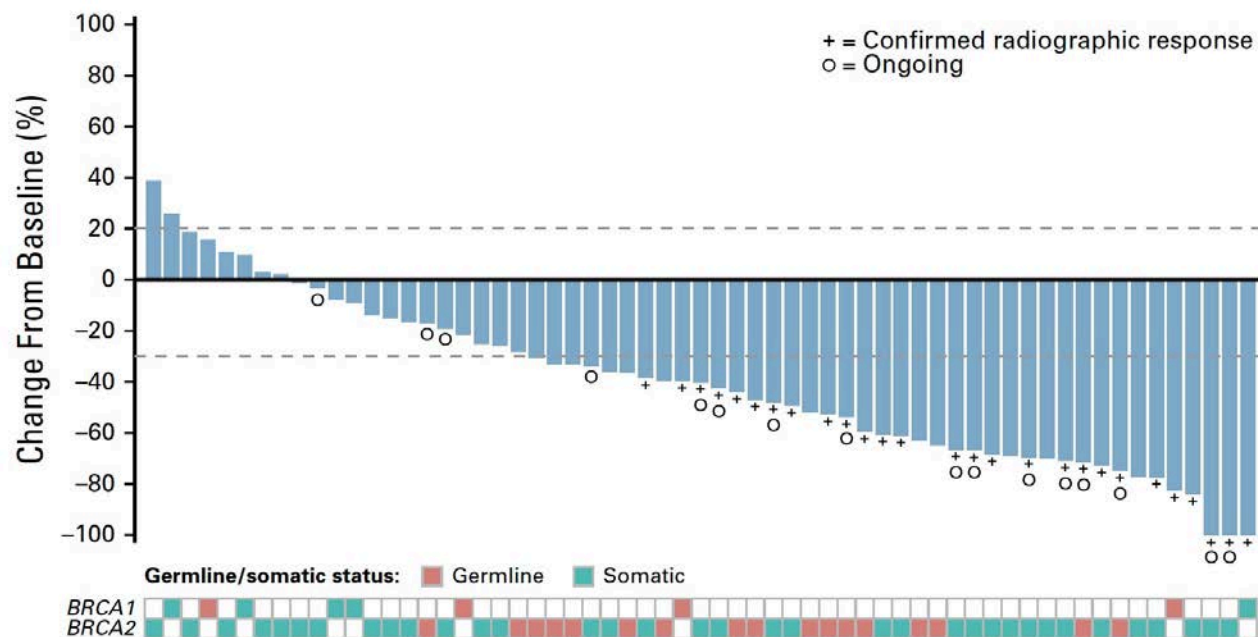
Rucaparib in Men With Metastatic Castration-Resistant Prostate Cancer Harboring a *BRCA1* or *BRCA2* Gene Alteration

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, PhD⁷; Nicholas J. Vogelzang, MD⁸; Richard M. Bambury, MD⁹; 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, MD¹⁸; Laurence E. Krieger, MBChB¹⁹; 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, PhD^{26,27}; on behalf of the TRITON2 investigators

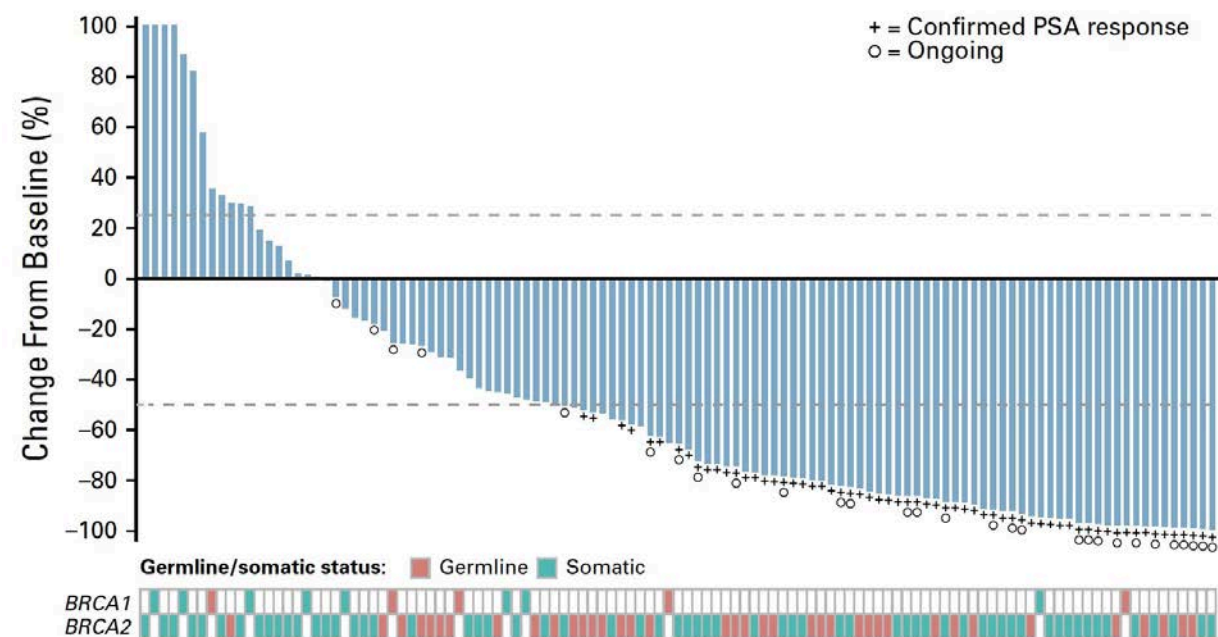
J Clin Oncol 2020;38(32):3763-72.

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%



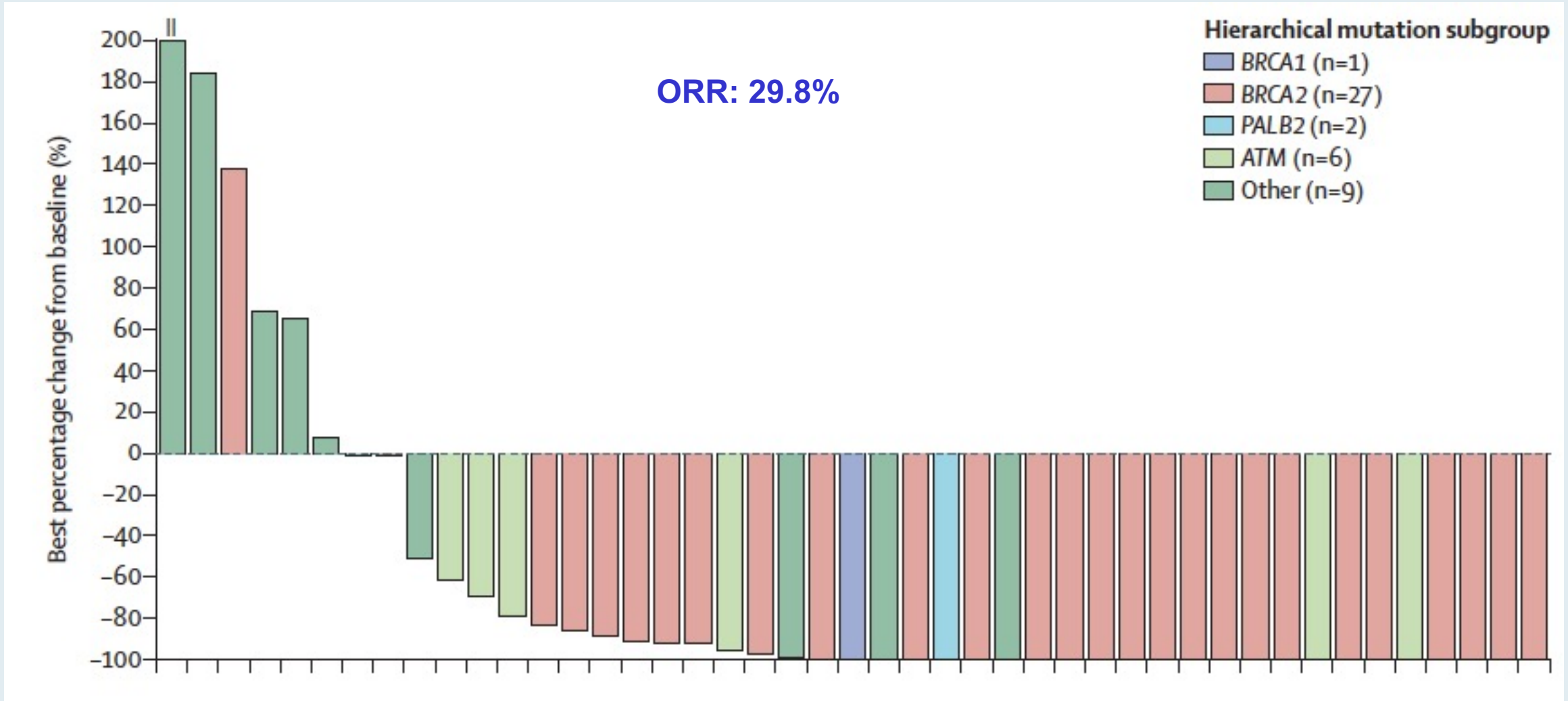


Talazoparib monotherapy in metastatic castration-resistant prostate cancer with DNA repair alterations (TALAPRO-1): an open-label, phase 2 trial

Johann S de Bono, Niven Mehra, Giorgio V Scagliotti, Elena Castro, Tanya Dorff, Adam Stirling, Arnulf Stenzl, Mark T Fleming, Celestia S Higano, Fred Saad, Consuelo Buttiglieri, Inge M van Oort, A Douglas Laird, Marielena Mata, Hsiang-Chun Chen, Cynthia G Healy, Akos Czibere, Karim Fizazi

Lancet Oncol 2021;[Online ahead of print].

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



Data + Perspectives: Clinical Investigators Discuss the Current and Future Management of Acute Myeloid Leukemia and Myelodysplastic Syndromes

*A Virtual CME Satellite Symposium During the Society of
Hematologic Oncology 2021 Annual Meeting*

**Wednesday, September 8, 2021
7:30 PM – 9:00 PM Central Time**

Faculty

Courtney D DiNardo, MD, MSCE

Daniel A Pollyea, MD, MS

David Sallman, MD

Eunice S Wang, MD

Moderator

Neil Love, MD

Thank you for joining us!

***NCPD credit information will be emailed
to each participant shortly.***