

# **Oncology Today: Recent Research Advances in Prostate Cancer and the Clinical Implications – A 2023 Post-ASCO GU Activity**

*A CME/MOC-Accredited Virtual Event*

**Wednesday, March 29, 2023**

**5:00 PM – 6:00 PM ET**

**Consulting Clinical Investigator**

**Daniel P Petrylak, MD**

**Faculty Panel**

**Andrew J Armstrong, MD, ScM**

**Rana R McKay, MD**

**Moderator**

**Neil Love, MD**

## Commercial Support

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

## 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, BeyondSpring Pharmaceuticals Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI BioPharma Corp, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Corporation, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab US Inc, Gilead Sciences Inc, Grail Inc, GSK, 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, Kronos Bio Inc, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSera Therapeutics LLC, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc, and Zymeworks 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 Armstrong — Disclosures

<b>Advisory Committee</b>	Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Clovis Oncology, Epic Sciences, Exact Sciences Corporation, Exelixis Inc, Merck, Myovant Sciences, Pfizer Inc, POINT Biopharma
<b>Consulting Agreements</b>	Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Dendreon Pharmaceuticals Inc, Epic Sciences, Exact Sciences Corporation, Exelixis Inc, Forma Therapeutics, Janssen Biotech Inc, Merck, Myovant Sciences, Pfizer Inc, POINT Biopharma
<b>Contracted Research</b>	Amgen Inc, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Celgene Corporation, Dendreon Pharmaceuticals Inc, Forma Therapeutics, Genentech, a member of the Roche Group, Janssen Biotech Inc, Merck, Pfizer Inc
<b>Nonrelevant Financial Relationship</b>	National Cancer Institute, National Institutes of Health, Prostate Cancer Foundation/Movember, US Department of Defense

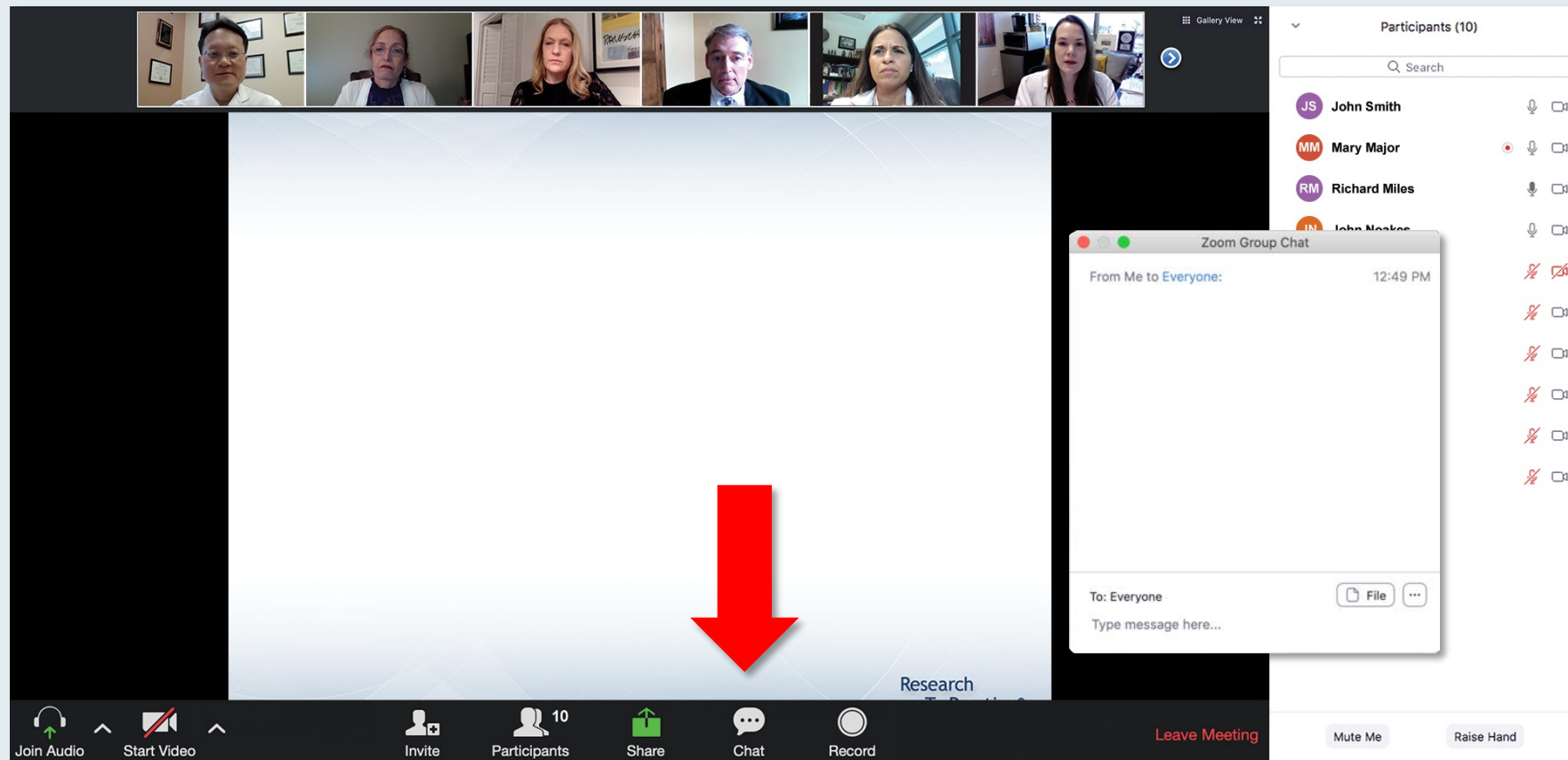
## Dr McKay — Disclosures

<b>Consulting Agreements</b>	AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Caris Life Sciences, Dendreon Pharmaceuticals Inc, Exelixis Inc, Johnson & Johnson Pharmaceuticals, Lilly, Merck, Myovant Sciences, Novartis, Pfizer Inc, Sanofi, Seagen Inc, Sorrento Therapeutics, Telix Pharmaceuticals Limited, Tempus
<b>Contracted Research</b>	AstraZeneca Pharmaceuticals LP, Exelixis Inc, Oncternal Therapeutics, Tempus

## Dr Petrylak — Disclosures

<b>Consulting Agreements</b>	Advanced Accelerator Applications, Amgen Inc, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bicycle Therapeutics, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Clovis Oncology, Exelixis Inc, Gilead Sciences Inc, Incyte Corporation, Infinity Pharmaceuticals Inc, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, Lilly, Merck, Mirati Therapeutics Inc, Monopteros Therapeutics, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Regeneron Pharmaceuticals Inc, Roche Laboratories Inc, Sanofi, Seagen Inc, UroGen Pharma
<b>Contracted Research</b>	Advanced Accelerator Applications, Agensys Inc, Arvinas, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, BioXcel Therapeutics, Bristol-Myers Squibb Company, Clovis Oncology, Daiichi Sankyo Inc, Eisai Inc, Endocyte Inc, Ferring Pharmaceuticals, Genentech, a member of the Roche Group, Gilead Sciences Inc, Innocrin Pharmaceuticals Inc, Lilly, Medivation Inc, a Pfizer Company, Merck, Mirati Therapeutics Inc, Novartis, Pfizer Inc, Progenics Pharmaceuticals Inc, Replimune, Roche Laboratories Inc, Sanofi, Seagen 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

## Expand chat submission box

The screenshot shows a Zoom meeting interface. At the top, there are video thumbnails for participants: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the thumbnails is a slide titled "Meet The Professor Program Participating Faculty" featuring six faculty members with their photos and titles. To the right is a chat window titled "Chat" with two messages from "Me to Panelists" and "Me to Panelists and Attendees". At the bottom of the chat window is a submission box with a dropdown menu set to "Panelists and Attendees" and a text input field. A red arrow points to the white line above the submission box, indicating where to drag to expand the chat area.

**Meet The Professor Program Participating Faculty**

**Nancy L Bartlett, MD**  
Professor of Medicine  
Koman Chair in Medical Oncology  
Washington University School of Medicine  
St Louis, Missouri

**Jonathan W Friedberg, MD, MMSc**  
Samuel E Durand Professor of Medicine  
Director, James P Wilmot Cancer Institute  
University of Rochester  
Rochester, New York

**Carla Casulo, MD**  
Associate Professor of Medicine  
Division of Hematology/Oncology  
Director, Hematology/Oncology Fellowship Program  
University of Rochester  
Wilmot Cancer Institute  
Rochester, New York

**Brian T Hill, MD, PhD**  
Director, Lymphoid Malignancy Program  
Cleveland Clinic Taussig Cancer Institute  
Cleveland, Ohio

**Christopher R Flowers, MD, MS**  
Chair, Professor  
Department of Lymphoma/Myeloma  
The University of Texas MD Anderson Cancer Center  
Houston, Texas

**Brad S Kahl, MD**  
Professor of Medicine  
Washington University School of Medicine  
Director, Lymphoma Program  
Siteman Cancer Center  
St Louis, Missouri

**Chat**

Me to Panelists 4:31 PM

Welcome and thank you for attending! To access the slides from today's session please use the link below.  
[http://images.researchtopractice.com/2021/Meetings/Slides/MTP\\_ToGo\\_CLL\\_2021\\_April1.pdf](http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf)

Me to Panelists and Attendees 4:32 PM

Welcome and thank you for attending! To access the slides from today's session please use the link below.  
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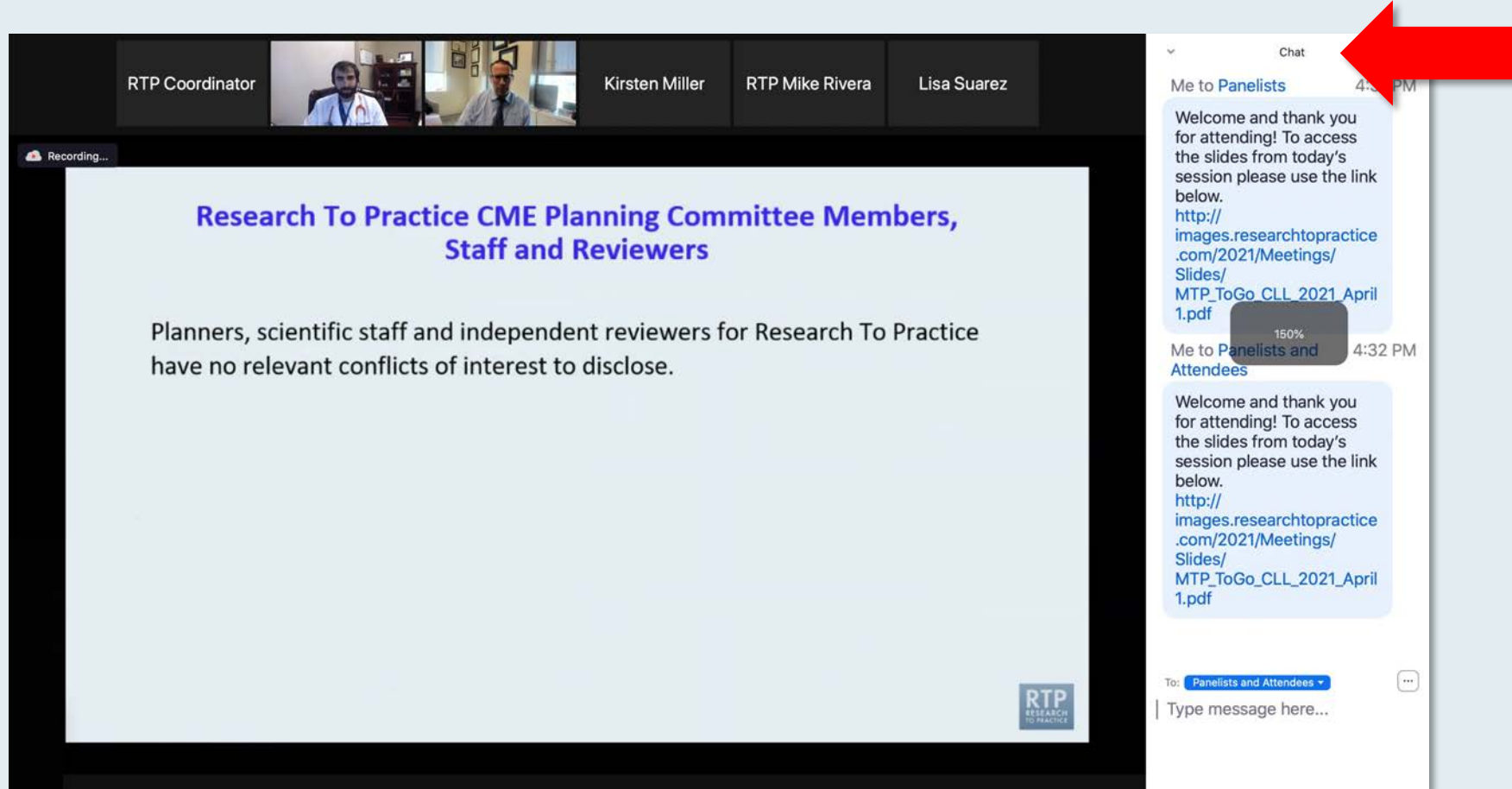
To: Panelists and Attendees

Type message here...

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



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



# Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys

The screenshot shows a Zoom meeting window. At the top, a row of seven participant video thumbnails is visible. The main content area on the left displays a presentation slide with the following text:   
**Meet The Professionals**  
**Optimizing the Selection and Timing of Therapy for Patients with Gastrointestinal Cancer**  
**Wednesday, August 25, 2021**  
**5:00 PM – 6:00 PM EST**  
**Faculty**  
**Wells A Messersmith, MD**  
**Moderator**  
**Neil Love, MD**  
The RTP Research to Practice logo is in the bottom right corner of the slide. A 'Quick Survey' pop-up window is centered over the slide, listing several treatment combinations with radio button options. To the right of the main content area is a 'Participants (10)' sidebar showing a list of names with status icons (microphone, video, chat). At the bottom of the window is a Zoom toolbar with icons for Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and a red 'Leave Meeting' button.

**Quick Survey**

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

**Participants (10)**

- JS John Smith
- MM Mary Major
- RM Richard Miles
- JN John Noakes
- AS Alice Suarez
- JP Jane Perez
- RS Robert Stiles
- JF Juan Fernandez
- AK Ashok Kumar
- JS Jeremy Smith

The screenshot shows a Zoom meeting window. At the top, a row of seven participant video thumbnails is visible. The main content area on the left displays a presentation slide with the following text:   
**Regulatory and reimbursement issues aside, which treatment would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) if follow-up 3 years later is found to have asymptomatic (PS 0)?**  

1. Nivolumab/ipilimumab
2. Avelumab/axitinib
3. Pembrolizumab/axitinib
4. Pembrolizumab/lenvatinib
5. Nivolumab/cabozantinib
6. Tyrosine kinase inhibitor (TKI) monotherapy
7. Anti-PD-1/PD-L1 monotherapy
8. Other

The RTP Research to Practice logo is in the bottom right corner of the slide. A 'Quick Poll' pop-up window is centered over the slide, listing the same eight options as radio button choices. To the right of the main content area is a 'Participants (10)' sidebar showing a list of names with status icons. At the bottom of the window is a Zoom toolbar with icons for Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and a red 'Leave Meeting' button.

**Quick Poll**

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

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- RS Robert Stiles
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- AK Ashok Kumar
- JS Jeremy Smith

# ONCOLOGY TODAY

WITH DR NEIL LOVE

## Managing Metastatic Urothelial Bladder Cancer



DR SCOTT TAGAWA  
WEILL CORNELL MEDICINE



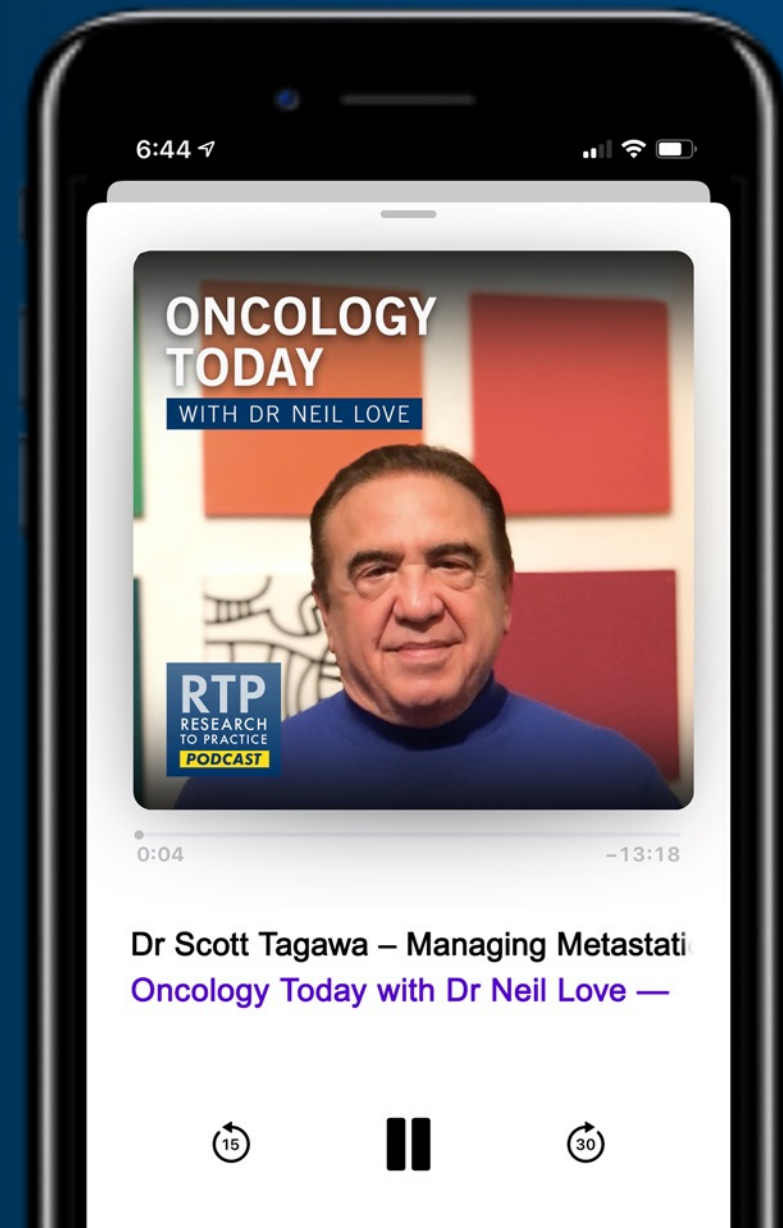
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**Google Podcasts**





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

*A Multitumor CME/MOC-Accredited Live Webinar Series*

## **Acute Myeloid Leukemia and Myelodysplastic Syndromes**

**Tuesday, April 4, 2023**

**5:00 PM – 6:00 PM ET**

### **Faculty**

**Uma Borate, MD, MS**

**Andrew H Wei, MBBS, PhD**

### **Moderator**

**Neil Love, MD**

# ***Meet The Professor***

## **Optimizing the Management of ER-Positive and Triple-Negative Breast Cancer**

**Wednesday, April 12, 2023  
5:00 PM – 6:00 PM ET**

**Faculty**

**Sara A Hurvitz, MD**

**Moderator**

**Neil Love, MD**

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

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## **Immunotherapy and Other Nontargeted Approaches for Lung Cancer**

**Thursday, April 13, 2023**

**5:00 PM – 6:00 PM ET**

### **Faculty**

**Luis Paz-Ares, MD, PhD**

**Heather Wakelee, MD**

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*A Multitumor CME/MOC-Accredited Live Webinar Series*

## **Colorectal Cancer**

**Wednesday, April 19, 2023**

**5:00 PM – 6:00 PM ET**

### **Faculty**

**Pashtoon M Kasi, MD, MS**

**Wells A Messersmith, MD**

### **Moderator**

**Neil Love, MD**

# What I Tell My Patients: Expert Insights into Patient Education on New Treatments and Clinical Trial Participation

*A Complimentary NCPD Hybrid Symposium Series Held During the 48<sup>th</sup> Annual ONS Congress*

## **Cervical and Endometrial Cancer**

**Wednesday, April 26, 2023**

11:15 AM – 12:45 PM CT (12:15 PM – 1:45 PM ET)

### **Faculty**

Paula J Anastasia, MN, RN, AOCN

Michael J Birrer, MD, PhD

Jennifer Filipi, MSN, NP

Brian M Slomovitz, MD

## **Diffuse Large B-Cell Lymphoma**

**Thursday, April 27, 2023**

6:00 AM – 7:30 AM CT (7:00 AM – 8:30 AM ET)

### **Faculty**

Christopher R Flowers, MD, MS

Amy Goodrich, CRNP

Robin Klebig, APRN, CNP, AOCNP

Matthew Lunning, DO

## **Breast Cancer**

**Wednesday, April 26, 2023**

6:00 PM – 8:00 PM CT (7:00 PM – 9:00 PM ET)

### **Faculty**

Jamie Carroll, APRN, MSN, CNP

Virginia Kaklamani, MD, DSc

Joyce O'Shaughnessy, MD

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

## **Chronic Lymphocytic Leukemia**

**Thursday, April 27, 2023**

12:15 PM – 1:45 PM CT (1:15 PM – 2:45 PM ET)

### **Faculty**

John N Allan, MD

Jacqueline Broadway-Duren, PhD, DNP, APRN, FNP-BC

Corinne Hoffman, MS, APRN-CNP, AOCNP

*Additional faculty to be announced*

# What I Tell My Patients: Expert Insights into Patient Education on New Treatments and Clinical Trial Participation

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## **HER2-Targeted Antibody-Drug Conjugates**

**Thursday, April 27, 2023**

6:00 PM – 7:30 PM CT (7:00 PM – 8:30 PM ET)

### **Faculty**

Kelly EH Goodwin, MSN, RN, ANP-BC

Zev Wainberg, MD, MSc

*Additional faculty to be announced*

## **Ovarian Cancer**

**Friday, April 28, 2023**

12:15 PM – 1:45 PM CT (1:15 PM – 2:45 PM ET)

### **Faculty**

Courtney Arn, CNP

David M O'Malley, MD

Richard T Penson, MD, MRCP

Jaclyn Shaver, MS, APRN, CNP, WHNP

## **Hepatobiliary Cancers**

**Friday, April 28, 2023**

6:00 AM – 7:30 AM CT (7:00 AM – 8:30 AM ET)

### **Faculty**

Blanca Ledezma, MSN, NP, AOCNP

Amanda K Wagner, APRN-CNP, AOCNP

*Additional faculty to be announced*

## **Lung Cancer**

**Friday, April 28, 2023**

6:00 PM – 8:00 PM CT (7:00 PM – 9:00 PM ET)

### **Faculty**

Tara Plues, APRN, MSN

Jillian Thompson, MSN, ANP-BC, AOCNP

*Additional faculty to be announced*

# What I Tell My Patients: Expert Insights into Patient Education on New Treatments and Clinical Trial Participation

*A Complimentary NCPD Hybrid Symposium Series Held During the 48<sup>th</sup> Annual ONS Congress*

## **Prostate Cancer**

**Saturday, April 29, 2023**

12:15 PM – 1:45 PM CT (1:15 PM – 2:45 PM ET)

### **Faculty**

Neeraj Agarwal, MD

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

Susan K Roethke, MSN, CRNP, AOCNP, ANP-BC

*Additional faculty to be announced*

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**Rana R McKay, MD**

**Moderator**

**Neil Love, MD**



# Agenda

- ▶ **Intensification of endocrine therapy: Emerging role in nonmetastatic disease; choice of androgen deprivation therapy**
- ▶ **Management of castration-resistant M0 disease; PROTACs, CDK4/6 inhibitors and other new endocrine approaches**
- ▶ **Hormone-sensitive metastatic disease – Choice of antiandrogen**
- ▶ **Castration-resistant metastatic disease**
- ▶ **Genomic evaluation; PARP inhibitors for metastatic disease**
- ▶ **Ideal sequencing of PARP inhibitors; management of associated side effects**
- ▶ **Biomarker testing; MSI-high disease; TKIs with immunotherapy; bispecific antibodies?**

***Thank you for joining us!***

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

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**Neil Love, MD**

## Consulting Clinical Investigator



**Daniel P Petrylak, MD**

Professor of Internal Medicine (Medical Oncology)  
and Urology

Yale School of Medicine  
New Haven, Connecticut



**Moderator**

**Neil Love, MD**

Research To Practice

## Faculty Panel



**Andrew J Armstrong, MD, ScM**

Professor of Medicine, Surgery, Pharmacology  
and Cancer Biology

Director of Research

Duke Cancer Institute Center for Prostate  
and Urologic Cancers

Divisions of Medical Oncology and Urology

Duke University

Durham, North Carolina



**Rana R McKay, MD**

Associate Professor of Medicine and Urology

Associate Director, Translational Sciences

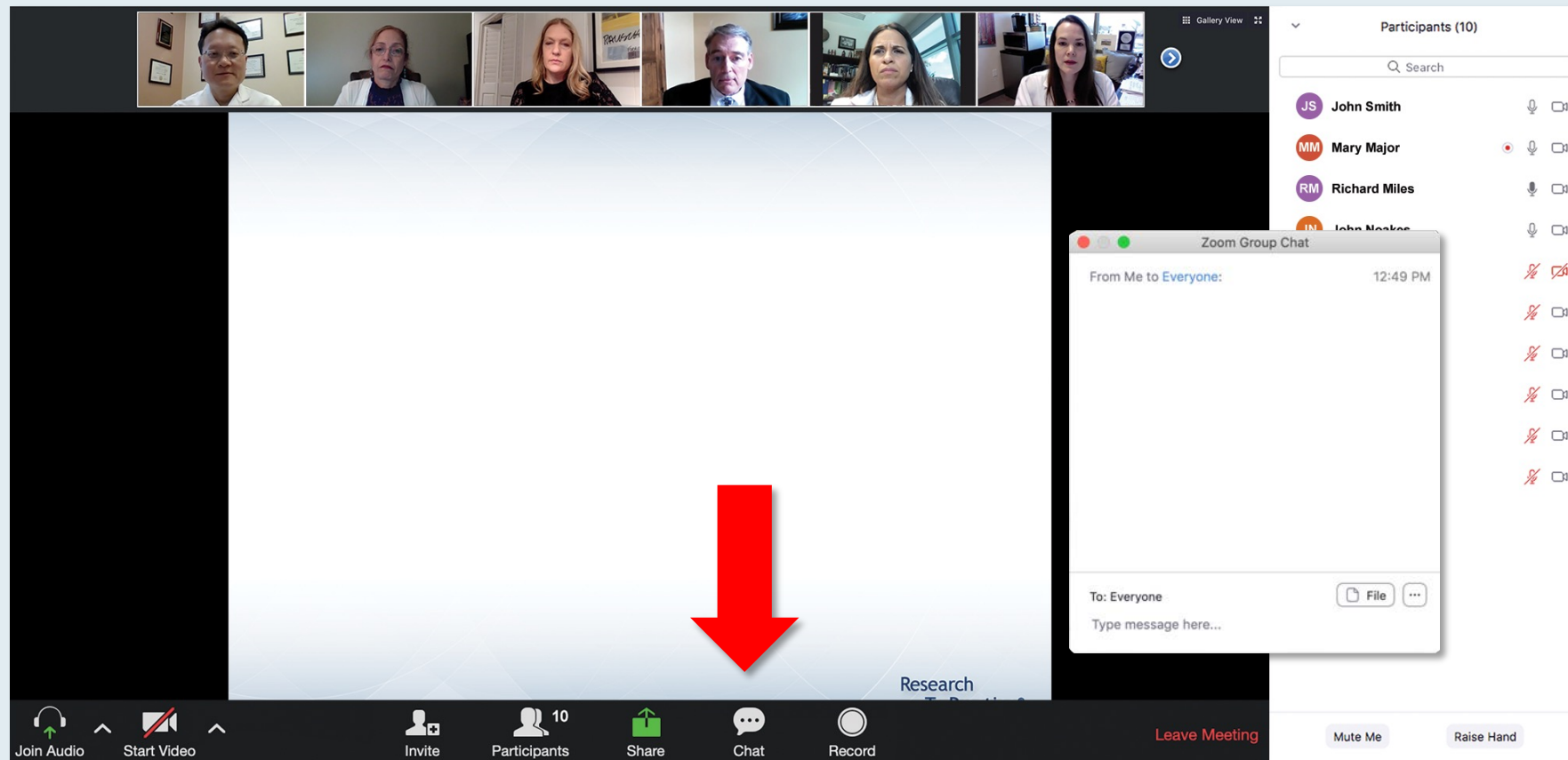
Co-Lead, Genitourinary Oncology Program

University of California San Diego

Moore's Cancer Center

La Jolla, California

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- ☐ Certizomib +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Certizomib + pomalidomide +/- dexamethasone
- ☐ Elokizumab + lenalidomide +/- dexamethasone
- ☐ Elokizumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Isaxomib + Rd
- Other

A "Submit" button is at the bottom of the survey. To the right of the main content is a "Participants (10)" list showing names and status icons. The bottom toolbar includes icons for Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and a "Leave Meeting" button.

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Matthew Lunning, DO

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Jamie Carroll, APRN, MSN, CNP

Virginia Kaklamani, MD, DSc

Joyce O'Shaughnessy, MD

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## Lung Cancer

**Friday, April 28, 2023**

6:00 PM – 8:00 PM CT (7:00 PM – 9:00 PM ET)

### Faculty

Tara Plues, APRN, MSN

Jillian Thompson, MSN, ANP-BC, AOCNP

*Additional faculty to be announced*

# What I Tell My Patients: Expert Insights into Patient Education on New Treatments and Clinical Trial Participation

*A Complimentary NCPD Hybrid Symposium Series Held During the 48<sup>th</sup> Annual ONS Congress*

## **Prostate Cancer**

**Saturday, April 29, 2023**

12:15 PM – 1:45 PM CT (1:15 PM – 2:45 PM ET)

### **Faculty**

Neeraj Agarwal, MD

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

Susan K Roethke, MSN, CRNP, AOCNP, ANP-BC

*Additional faculty to be announced*

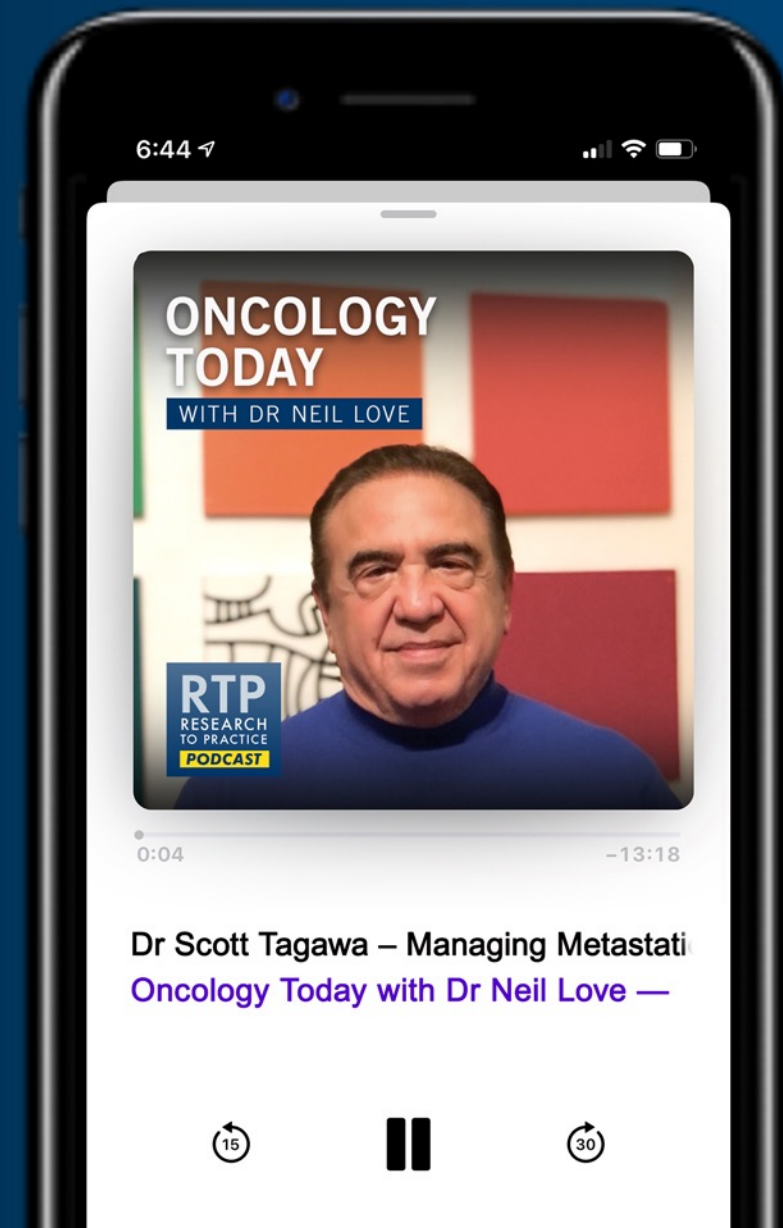
# ONCOLOGY TODAY

WITH DR NEIL LOVE

## Managing Metastatic Urothelial Bladder Cancer



DR SCOTT TAGAWA  
WEILL CORNELL MEDICINE



# **Oncology Today: Recent Research Advances in Prostate Cancer and the Clinical Implications – A 2023 Post-ASCO GU Activity**

*A CME/MOC-Accredited Virtual Event*

**Wednesday, March 29, 2023**

**5:00 PM – 6:00 PM ET**

**Consulting Clinical Investigator**

**Daniel P Petrylak, MD**

**Faculty Panel**

**Andrew J Armstrong, MD, ScM**

**Rana R McKay, MD**

**Moderator**

**Neil Love, MD**

## Commercial Support

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

## 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 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, BeyondSpring Pharmaceuticals Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI BioPharma Corp, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Corporation, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab US Inc, Gilead Sciences Inc, Grail Inc, GSK, 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, Kronos Bio Inc, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSera Therapeutics LLC, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc, and Zymeworks Inc.

# Dr Armstrong — Disclosures

<b>Advisory Committee</b>	Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Clovis Oncology, Epic Sciences, Exact Sciences Corporation, Exelixis Inc, Merck, Myovant Sciences, Pfizer Inc, POINT Biopharma
<b>Consulting Agreements</b>	Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Dendreon Pharmaceuticals Inc, Epic Sciences, Exact Sciences Corporation, Exelixis Inc, Forma Therapeutics, Janssen Biotech Inc, Merck, Myovant Sciences, Pfizer Inc, POINT Biopharma
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<b>Nonrelevant Financial Relationship</b>	National Cancer Institute, National Institutes of Health, Prostate Cancer Foundation/Movember, US Department of Defense

## Dr McKay — Disclosures

<b>Consulting Agreements</b>	AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Caris Life Sciences, Dendreon Pharmaceuticals Inc, Exelixis Inc, Johnson & Johnson Pharmaceuticals, Lilly, Merck, Myovant Sciences, Novartis, Pfizer Inc, Sanofi, Seagen Inc, Sorrento Therapeutics, Telix Pharmaceuticals Limited, Tempus
<b>Contracted Research</b>	AstraZeneca Pharmaceuticals LP, Exelixis Inc, Oncternal Therapeutics, Tempus

## Dr Petrylak — Disclosures

<b>Consulting Agreements</b>	Advanced Accelerator Applications, Amgen Inc, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bicycle Therapeutics, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Clovis Oncology, Exelixis Inc, Gilead Sciences Inc, Incyte Corporation, Infinity Pharmaceuticals Inc, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, Lilly, Merck, Mirati Therapeutics Inc, Monopteros Therapeutics, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Regeneron Pharmaceuticals Inc, Roche Laboratories Inc, Sanofi, Seagen Inc, UroGen Pharma
<b>Contracted Research</b>	Advanced Accelerator Applications, Agensys Inc, Arvinas, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, BioXcel Therapeutics, Bristol-Myers Squibb Company, Clovis Oncology, Daiichi Sankyo Inc, Eisai Inc, Endocyte Inc, Ferring Pharmaceuticals, Genentech, a member of the Roche Group, Gilead Sciences Inc, Innocrin Pharmaceuticals Inc, Lilly, Medivation Inc, a Pfizer Company, Merck, Mirati Therapeutics Inc, Novartis, Pfizer Inc, Progenics Pharmaceuticals Inc, Replimune, Roche Laboratories Inc, Sanofi, Seagen Inc

# Cases from the Community: Investigators Discuss Available Research Guiding the Care of Patients with Prostate Cancer

*Part 2 of a 3-Part CME Symposium Series Held in Conjunction  
with the 2023 ASCO Genitourinary Cancers Symposium*

**Thursday, February 16, 2023**

**7:15 PM – 9:15 PM PT**

## **Faculty**

**Emmanuel S Antonarakis, MD**

**Maha Hussain, MD, FACP, FASCO**

**Prof Karim Fizazi, MD, PhD**

**Matthew R Smith, MD, PhD**

## **Moderator**

**Alan H Bryce, MD**

# Agenda

- ▶ **Intensification of endocrine therapy: Emerging role in nonmetastatic disease; choice of androgen deprivation therapy**
- ▶ **Management of castration-resistant M0 disease; PROTACs, CDK4/6 inhibitors and other new endocrine approaches**
- ▶ **Hormone-sensitive metastatic disease – Choice of antiandrogen**
- ▶ **Castration-resistant metastatic disease**
- ▶ **Genomic evaluation; PARP inhibitors for metastatic disease**
- ▶ **Ideal sequencing of PARP inhibitors; management of associated side effects**
- ▶ **Biomarker testing; MSI-high disease; TKIs with immunotherapy; bispecific antibodies?**

# Positive Topline Results from the Phase III EMBARK Study of Enzalutamide with Leuprolide for Nonmetastatic Prostate Cancer

Press Release – March 16, 2023

“[Today positive topline results were announced] from the Phase 3 EMBARK trial evaluating enzalutamide in men with non-metastatic hormone-sensitive prostate cancer (nmHSPC; also known as non-metastatic castration-sensitive prostate cancer or nmCSPC) with high-risk biochemical recurrence (BCR). Patients enrolled in the trial were randomized to one of three study arms: enzalutamide plus leuprolide, placebo plus leuprolide, or enzalutamide monotherapy. The study met its primary endpoint with a statistically significant and clinically meaningful improvement in metastasis-free survival (MFS) for patients treated with enzalutamide plus leuprolide versus placebo plus leuprolide.

At the time of the analysis, a positive trend in the key secondary endpoint of overall survival (OS) was also observed, but these data were not yet mature. Patients in the trial will be followed for a subsequent final OS analysis. The study also met a key secondary endpoint with a statistically significant and clinically meaningful improvement in MFS for patients treated with enzalutamide monotherapy versus placebo plus leuprolide. Additional key secondary endpoints reached statistical significance, including time to prostate-specific antigen (PSA) progression and time to first use of new antineoplastic therapy. Other secondary endpoints are being analyzed. No new safety signals have been observed to date in the preliminary safety analysis. Detailed results from EMBARK will be presented at a future medical meeting.”

# **EMBARC: A Phase 3 Randomized Study of Enzalutamide or Placebo plus Leuprolide Acetate and Enzalutamide Monotherapy in High-Risk Biochemically Recurrent Prostate Cancer**

Shore ND et al.

AUA 2023.

Session: Plenary: Saturday Morning

April 29, 2023

9:45 AM – 10:00 AM CT (10:45 AM – 11:00 AM ET)

Location: Hall B1



# Intensification of endocrine therapy: Emerging role in nonmetastatic disease; choice of androgen deprivation therapy



**Dr Daniel Petrylak (New Haven, Connecticut)**

# Management of castration-resistant M0 disease; PROTACs, CDK4/6 inhibitors and other new endocrine approaches



**Dr Daniel Petrylak (New Haven, Connecticut)**

# Hormone-sensitive metastatic disease – Choice of antiandrogen



**Dr Daniel Petrylak (New Haven, Connecticut)**

# Castration-resistant metastatic disease



**Dr Daniel Petrylak (New Haven, Connecticut)**

# Genomic evaluation; PARP inhibitors for metastatic disease



**Dr Daniel Petrylak (New Haven, Connecticut)**

# Ideal sequencing of PARP inhibitors; management of associated side effects



**Dr Daniel Petrylak (New Haven, Connecticut)**



# Biomarker testing; MSI-high disease; TKIs with immunotherapy; bispecific antibodies?



**Dr Daniel Petrylak (New Haven, Connecticut)**

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

*A Multitumor CME/MOC-Accredited Live Webinar Series*

## **Acute Myeloid Leukemia and Myelodysplastic Syndromes**

**Tuesday, April 4, 2023**

**5:00 PM – 6:00 PM ET**

### **Faculty**

**Uma Borate, MD, MS**

**Andrew H Wei, MBBS, PhD**

### **Moderator**

**Neil Love, MD**



***Thank you for joining us!***

***Please take a moment to complete the survey currently up on Zoom. Your feedback is very important to us. The survey will remain open up to 5 minutes after the meeting ends.***

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

## Supplementary slides

# **Oncology Today: Recent Research Advances in Prostate Cancer and the Clinical Implications – A 2023 Post-ASCO GU Activity**

*A CME/MOC-Accredited Virtual Event*

**Wednesday, March 29, 2023**

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**Faculty Panel**

**Andrew J Armstrong, MD, ScM**

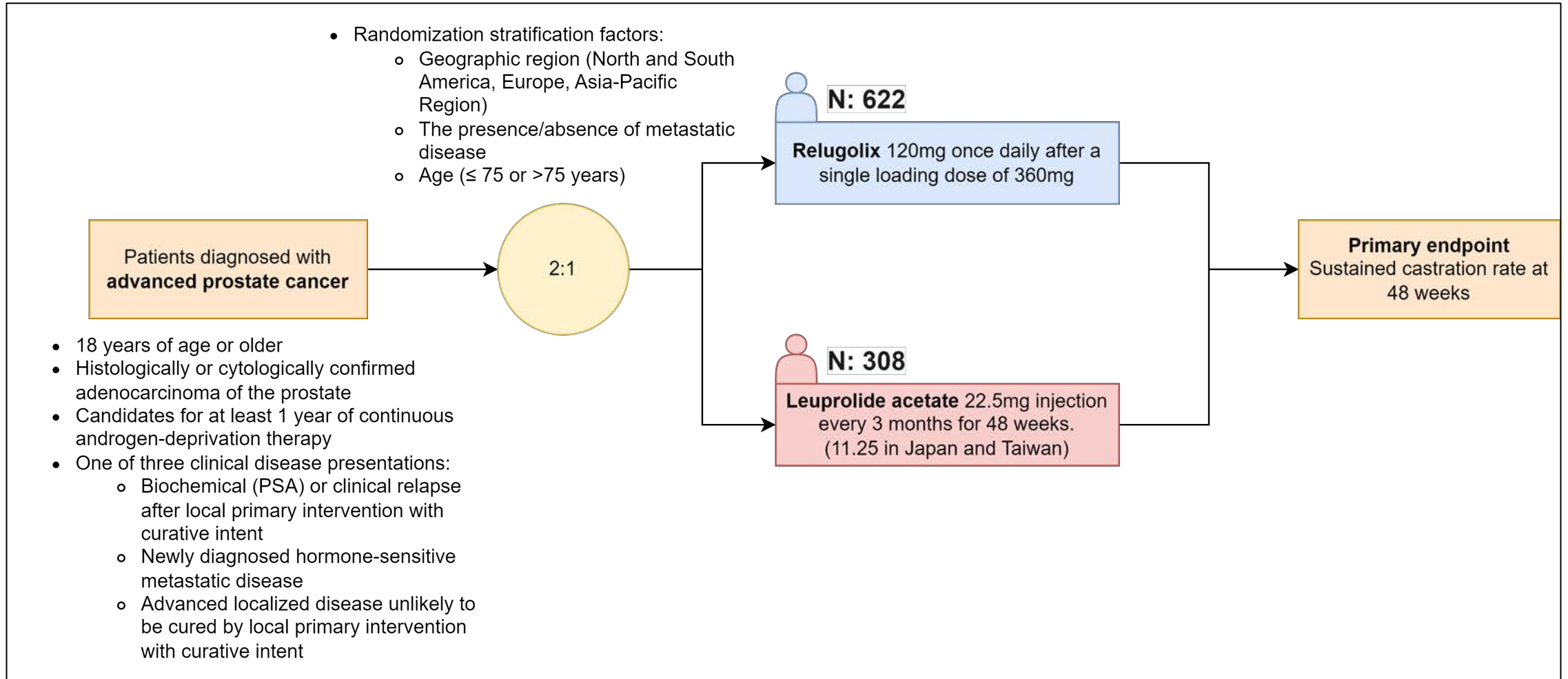
**Rana R McKay, MD**

**Moderator**

**Neil Love, MD**

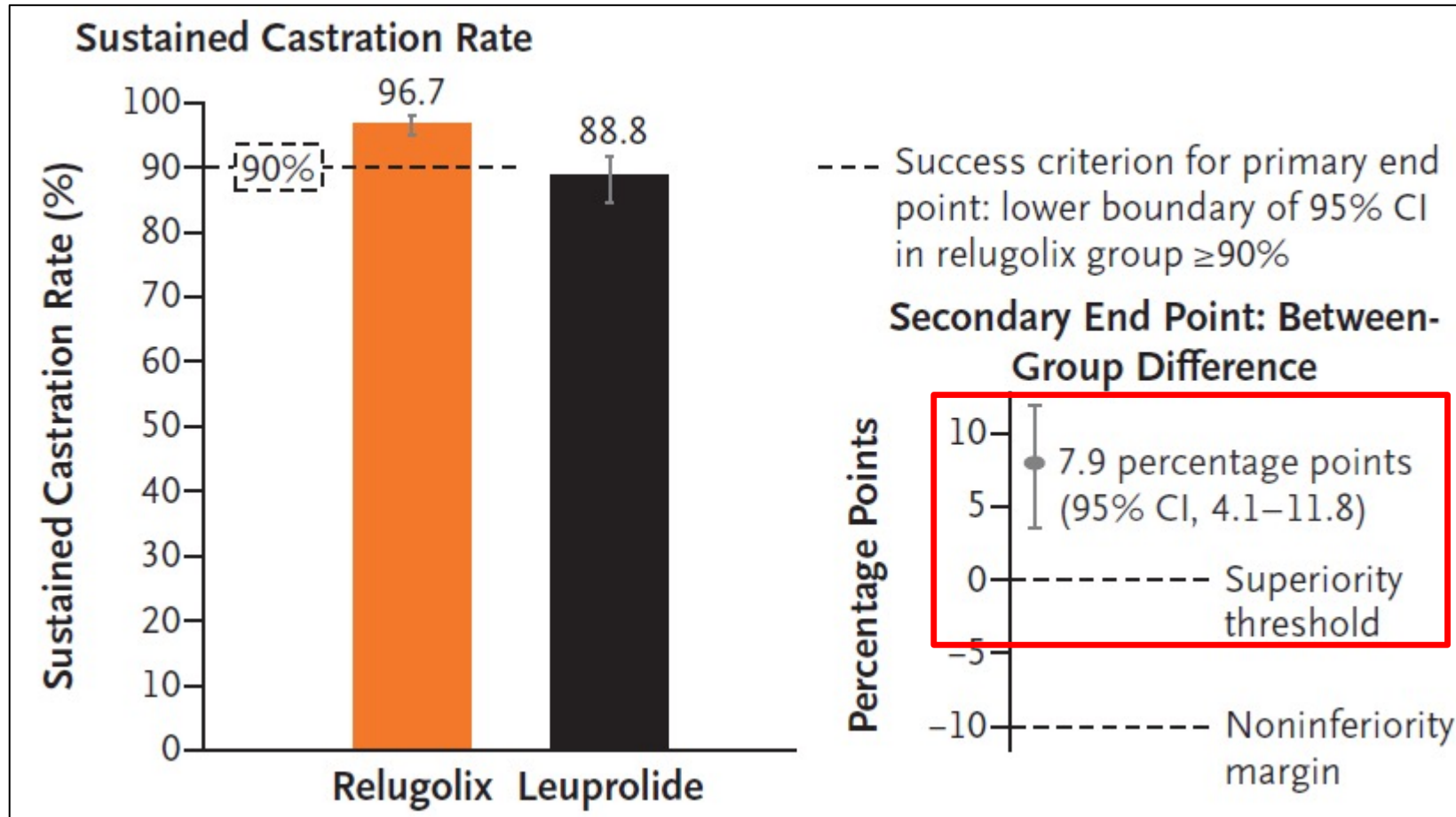
# PHASE III HERO TRIAL

## STUDY DESIGN



# PHASE III HERO TRIAL

## RESULTS: PRIMARY ENDPOINT



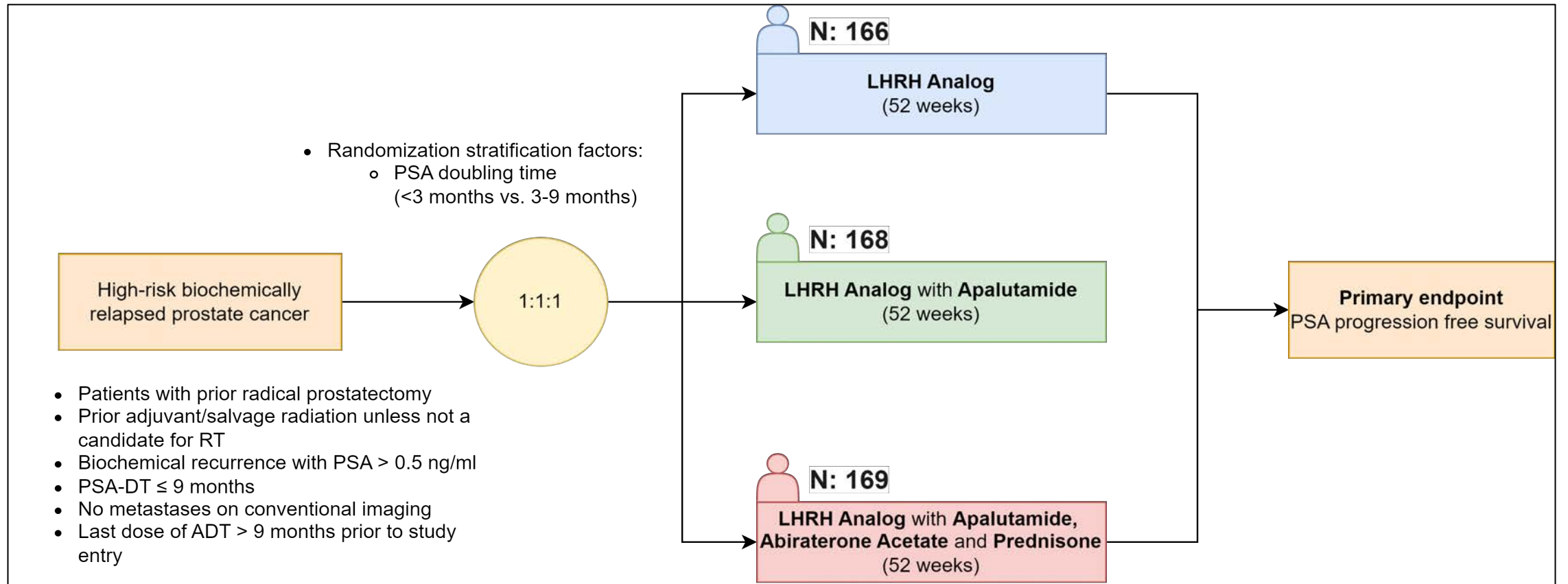
# PHASE III HERO TRIAL

## RESULTS: ADVERSE EVENTS

Adverse Events - N (%)	Relugolix (N=622)		Leuprolide (N=308)	
	Any Grade	Grade 3 or 4	Any Grade	Grade 3 or 4
Any adverse event	578 (92.9)	112 (18.0)	288 (93.5)	63 (20.5)
Serious adverse event	76 (12.2)	61 (9.8)	47 (15.3)	35 (11.4)
Fatal adverse event	7 (1.1)		9 (2.9)	
MACE	18 (2.9)	8 (1.3)	19 (6.2)	4 (1.3)
Without prior history of MACE	15/538 (2.8)		11/263 (4.2)	
With prior history of MACE	3/84 (3.6)		8/45 (17.8)	

# PHASE III PRESTO TRIAL

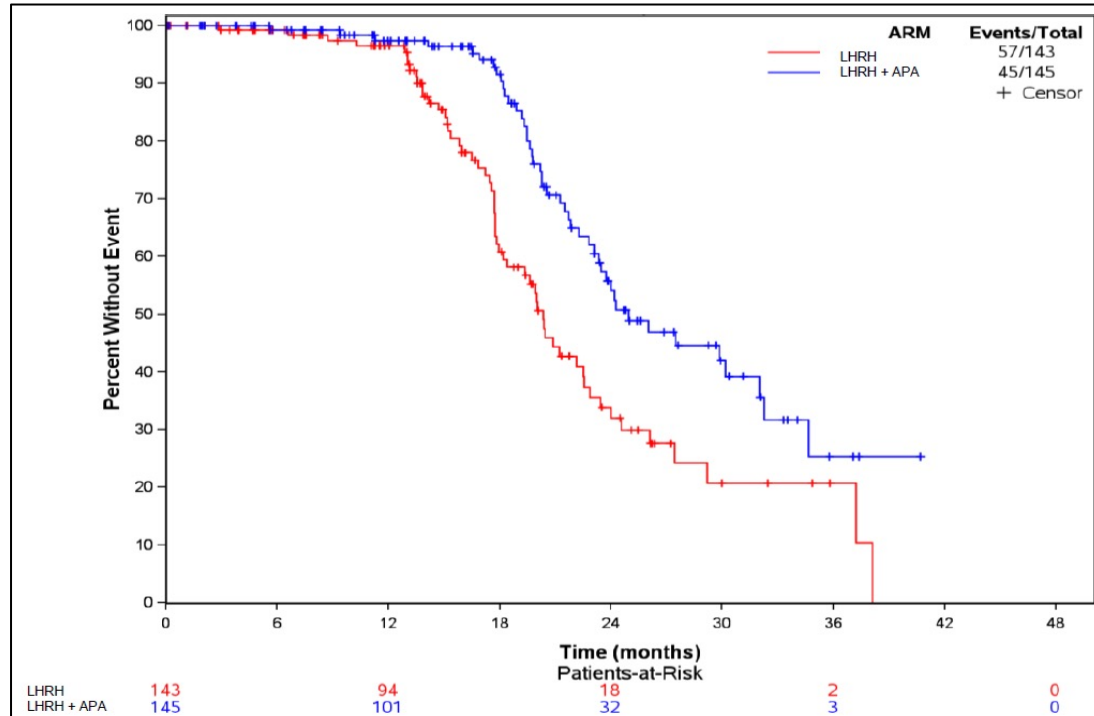
## STUDY DESIGN



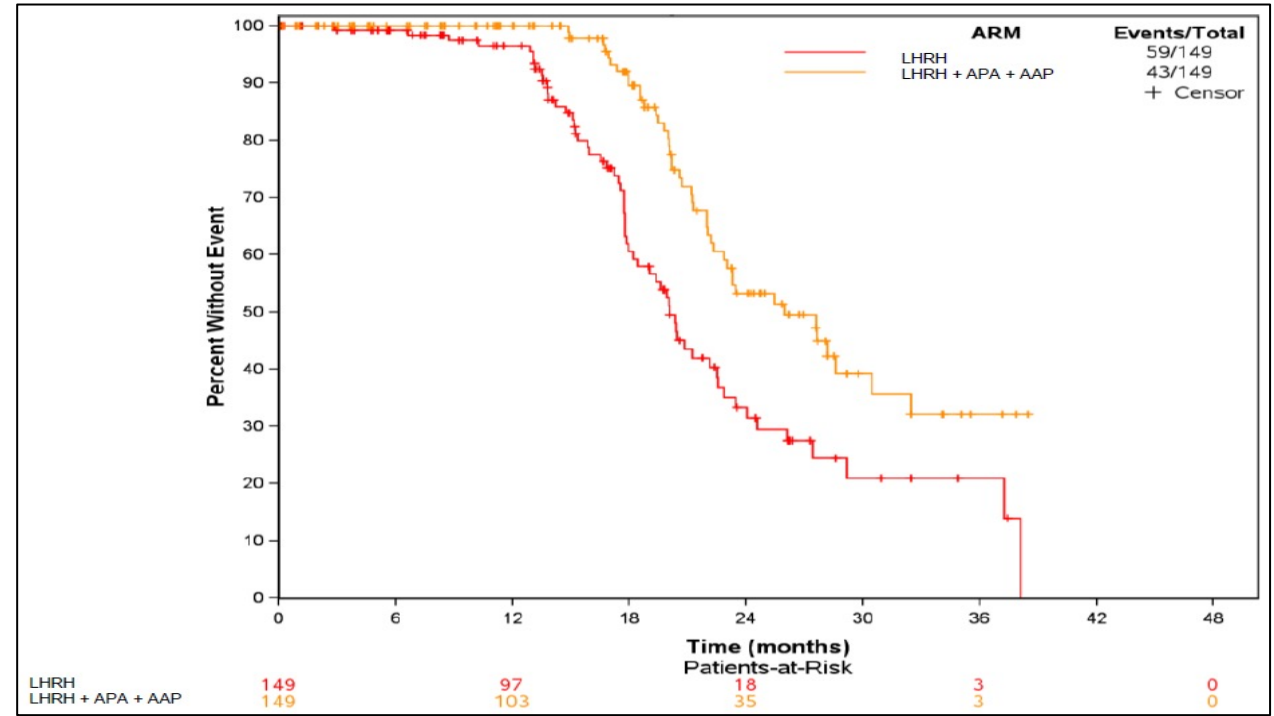
# PHASE III PRESTO TRIAL

## RESULTS: PSA PROGRESSION FREE SURVIVAL

	PSA Progression-Free Survival	
	Apalutamide + ADT	ADT alone
Events/Total	45/145	57/143
Median PSA PFS (months)	24.9 (95% CI: 23.3 – 32.3)	20.3 (95% CI: 18.2 – 22.9)
Hazard Ratio (95% CI)   p-value	0.52 (95% CI: 0.35 – 0.77)   0.00047*	
*One sided p-value		



	PSA Progression-Free Survival	
	Apalutamide + Abiraterone + ADT	ADT alone
Events/Total	43/149	59/149
Median PSA PFS (months)	26.0 (95% CI: 22.9 – 32.5)	20.0 (95% CI: 18.2 – 22.5)
Hazard Ratio (95% CI)   p-value	0.48 (95% CI: 0.32 – 0.71)   0.00008*	
*One-sided p-value		





# PHASE III PRESTO TRIAL

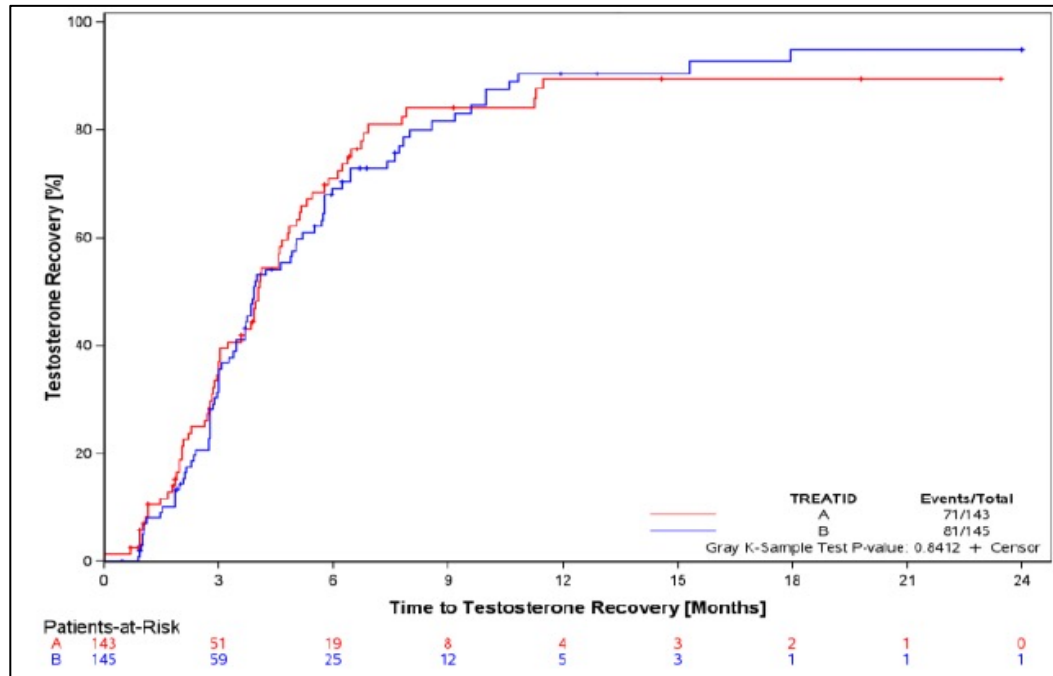
## RESULTS: ANALYSIS BY PSA DOUBLING TIME

PSA Progression-Free Survival		
Subgroup Analysis by PSA Doubling Time	Total Participants	HR (95% CI)
<b>Apalutamide + ADT vs ADT</b>		
< 3 months	Apalutamide + ADT: 39 ADT: 38	0.57 (0.28-1.18)
3-9 months	Apalutamide + ADT: 106 ADT: 105	0.50 (0.31-0.80)
<b>Apalutamide + Abiraterone + ADT vs ADT</b>		
< 3 months	Apalutamide + Abiraterone ADT: 41 ADT: 40	0.46 (0.22-0.95)
3-9 months	Apalutamide + Abiraterone ADT: 108 ADT: 109	0.48 (0.30-0.77)

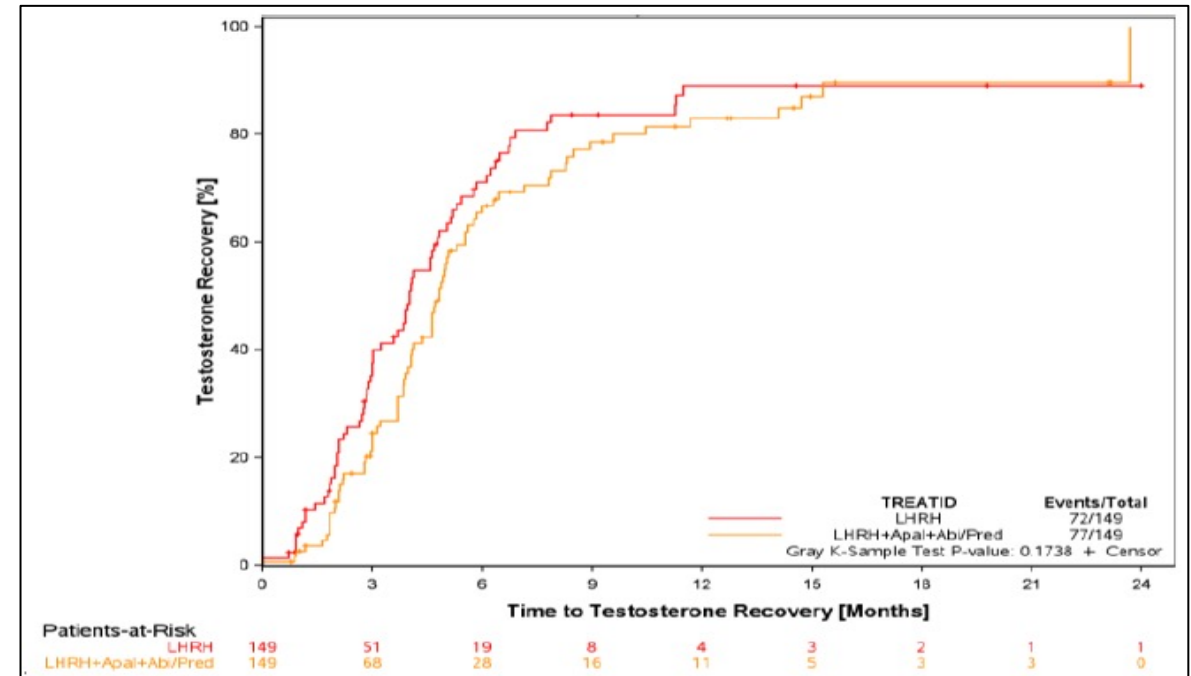
# PHASE III PRESTO TRIAL

## RESULTS: TIME TO TESTOSTERONE RECOVERY

	Time to Testosterone Recovery (>50 ng/dL)	
	ADT alone	Apalutamide + ADT
Events/Total	71/143	81/145
Median TTR (months)	4	3.9
Hazard Ratio (95% CI)   p-value	0.96 (95% CI: 0.70-1.32)   0.8412*	
*Gray's test		



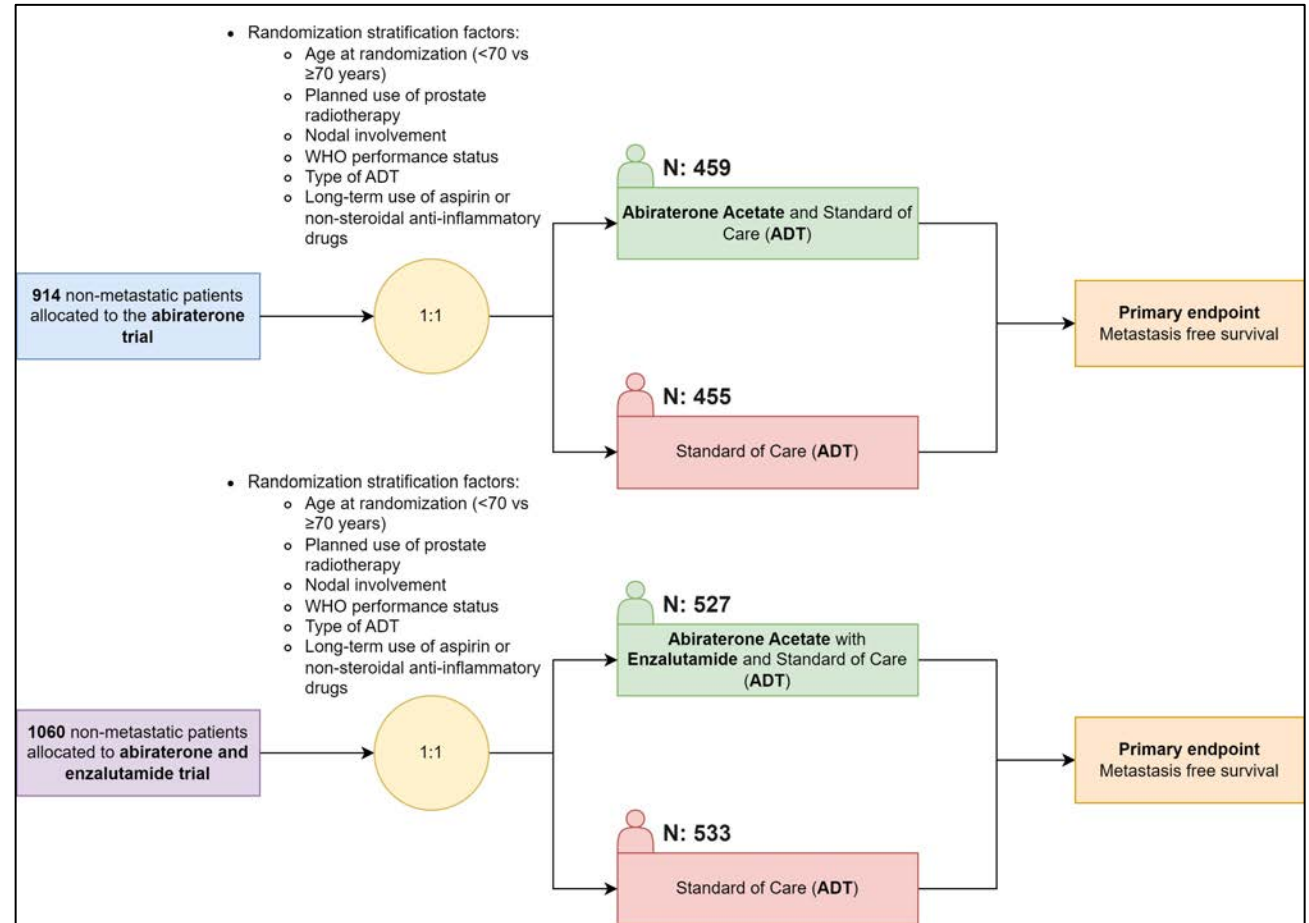
	Time to Testosterone Recovery (>50 ng/dL)	
	ADT alone	Apalutamide + Abiraterone + ADT
Events/Total	72/149	77/149
Median TTR (months)	4	4.8
Hazard Ratio (95% CI)   p-value	0.80 (95% CI: 0.58-1.10)   0.1738*	
*Gray's test		



# PHASE III STAMPEDE TRIAL

## STUDY DESIGN

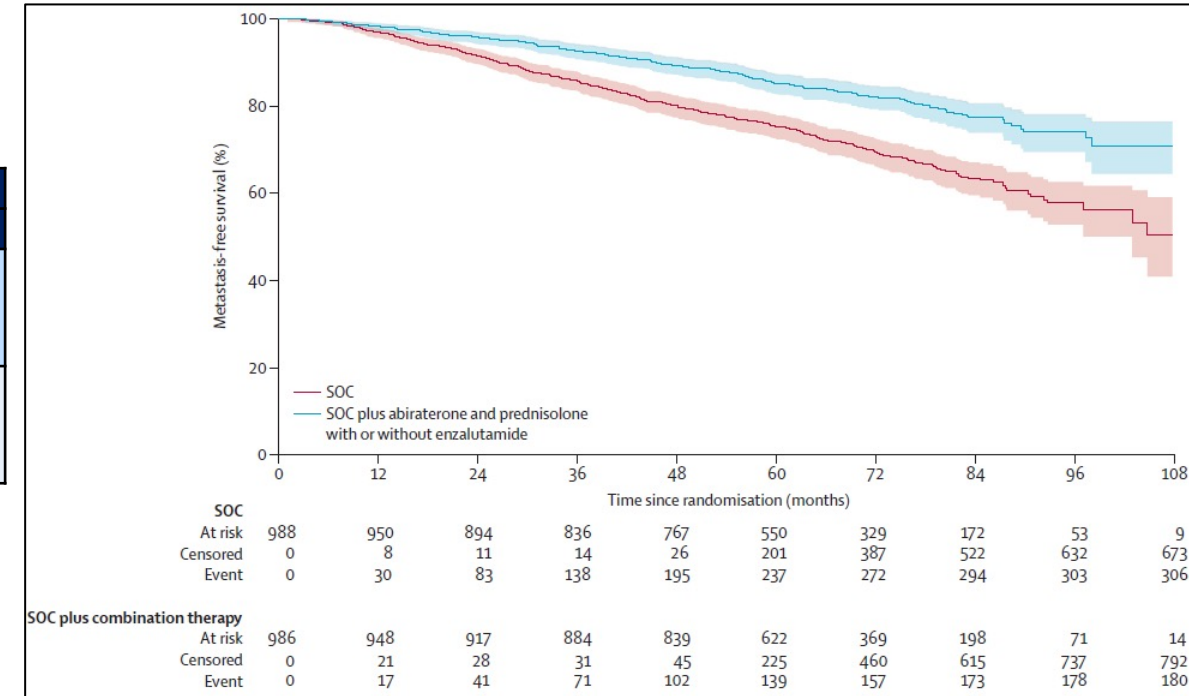
Inclusion criteria	Type of definitive therapy	High risk definition
High risk local, or locally advanced - histologically confirmed prostatic adenocarcinoma	Planned for radiation therapy	<p>Either:</p> <p>a) at least two of the following:</p> <ul style="list-style-type: none"> <li>- T3 or T4</li> <li>- GS 8-10</li> <li>- PSA <math>\geq 40</math> ng/mL</li> </ul> <p>b) Relapsing with high-risk features (<math>\leq 12</math> months of total ADT with an interval of <math>\geq 12</math> months without treatment and a PSA <math>\geq 4</math> ng/mL with a doubling time of <math>&lt; 6</math> months or a PSA <math>\geq 20</math> ng/mL)</p>



# PHASE III STAMPEDE TRIAL

## RESULTS: METASTASIS FREE SURVIVAL

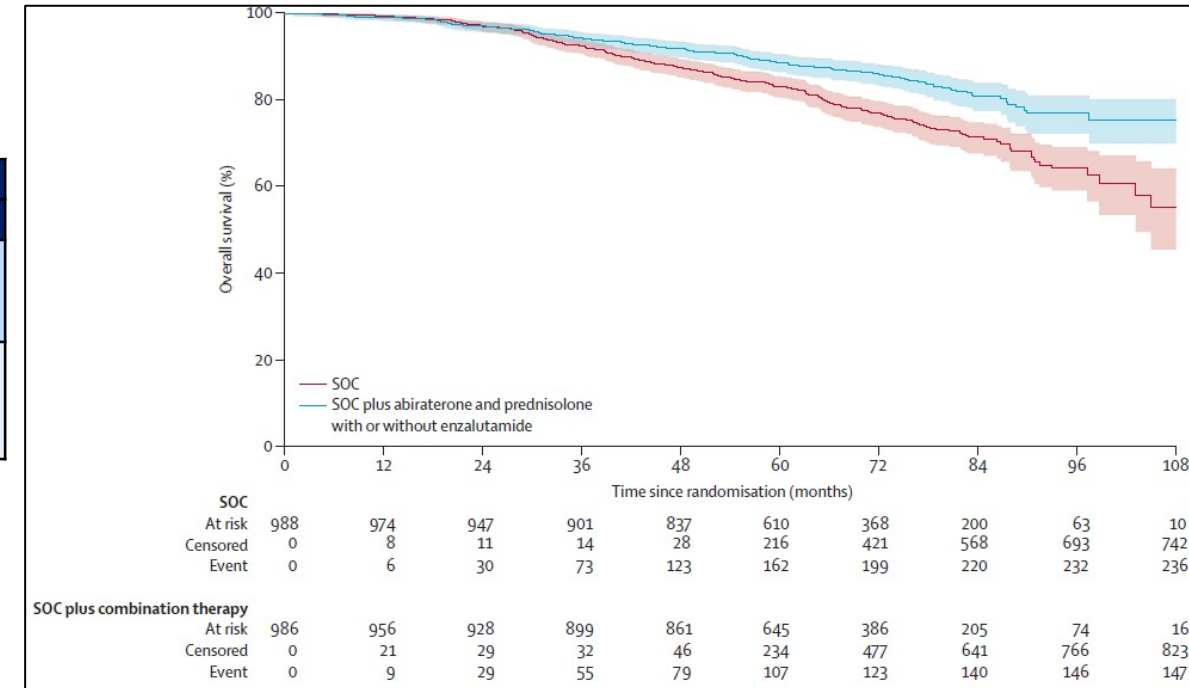
Arms	Metastasis free survival		
	Events in treatment arm	Events in control arm	HR (95% CI)
Treatment: Abiraterone Control: SOC (ADT)	111/459 Metastasis: 51 Death: 60	183/455 Metastasis: 110 Death: 73	0.54 (0.43-0.68)
Treatment: Abiraterone- Enzalutamide Control: SOC (ADT)	69/257 Metastasis: 36 Death: 33	123/533 Metastasis: 79 Death: 44	0.53 (0.39-0.71)



# PHASE III STAMPEDE TRIAL

## RESULTS: OVERALL SURVIVAL

Arms	Overall survival		
	Events in treatment arm	Events in control arm	HR (95% CI)
Treatment: Abiraterone Control: SOC (ADT)	95/459	142/455	0.63 (0.48-0.82)
Treatment: Abiraterone- Enzalutamide Control: SOC (ADT)	52/527	94/533	0.54 (0.39-0.76)



Attard G et al, Lancet 2022

# TRIALS IN M0 CRPC

## OVERVIEW

Trial Name	Total Participants	Interventions	Primary Endpoint
PROSPER (NCT02003924)	1560	Enzalutamide 160mg once daily	Metastasis-free survival
SPARTAN (NCT01946204)	1200	Apalutamide 240mg once daily	Metastasis-free survival
ARAMIS (NCT02200614)	1500	Darolutamide 600mg twice daily	Metastasis-free survival

# TRIALS IN M0 CRPC

## ENDPOINTS

### PROSPER

#### PRIMARY ENDPOINTS

- **Metastasis-free survival:** defined as the time from randomization to radiographic progression, as determined by central review at any time, or as the time to death from any cause during the period from randomization to 112 days after the discontinuation of the trial regimen without evidence of radiographic progression, whichever occurred first

#### SECONDARY ENDPOINTS

- Overall survival
- Time to PSA progression
- The PSA response rate
- The time to the first use of a subsequent antineoplastic therapy
- Quality of life
- Safety

### SPARTAN

#### PRIMARY ENDPOINTS

- **Metastasis-free survival:** defined as the time from randomization to the first detection of distant metastasis on imaging (as assessed by means of blinded independent central review) or death from any cause, whichever occurred first

#### SECONDARY ENDPOINTS

- Overall survival
- Time to metastasis
- Progression-free survival
- Time to symptomatic progression
- Time to the initiation of cytotoxic chemotherapy

#### EXPLORATORY ENDPOINTS

- Time to PSA progression
- PSA response rate
- Second progression-free survival
- Patient reported outcomes

### ARAMIS

#### PRIMARY ENDPOINTS

- **Metastasis-free survival:** defined as the time from randomization to confirmed evidence of distant metastasis on imaging or death from any cause, whichever occurred first

#### SECONDARY ENDPOINTS

- Overall survival
- Time to pain progression
- Time to first symptomatic skeletal event
- Time to the first cytotoxic chemotherapy

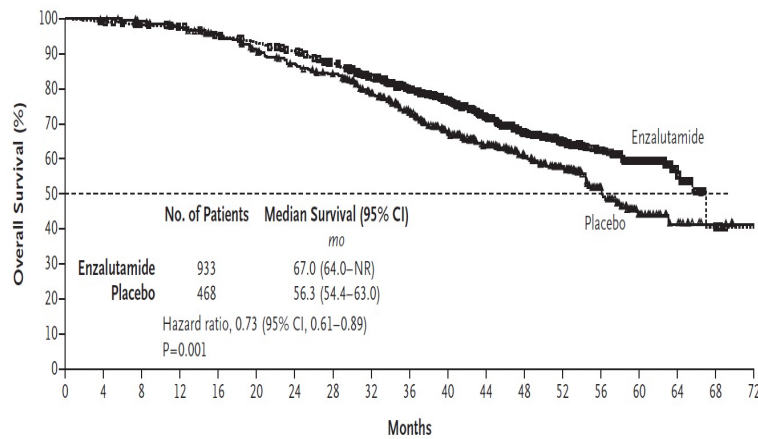
#### EXPLORATORY ENDPOINTS

- Progression-free survival
- Time to first prostate cancer related invasive procedure
- Time to initiation of subsequent antineoplastic therapy
- PSA progression and response
- Deterioration in ECOG performance status
- Quality of life

# LONG-TERM RESULTS

## OVERALL SURVIVAL

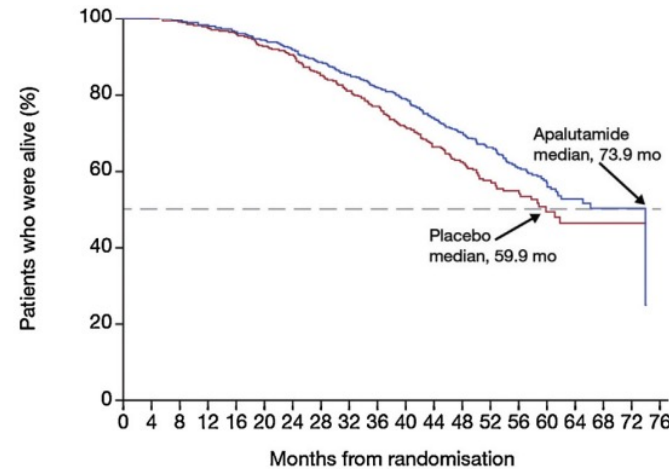
### PROSPER



No. at Risk		933	926	910	897	874	850	822	782	700	608	517	424	327	244	169	89	33	4	0
Enzalutamide		933	926	910	897	874	850	822	782	700	608	517	424	327	244	169	89	33	4	0
Placebo		468	467	459	444	428	404	381	363	321	274	219	177	140	106	64	30	16	3	0

Arms	Overall survival	
	Median OS	HR (95% CI)
Treatment: Enzalutamide Control: ADT	67.0 vs. 56.3 (months)	0.73 (0.61-0.89)
Median Follow up: <b>48.0 months</b>		

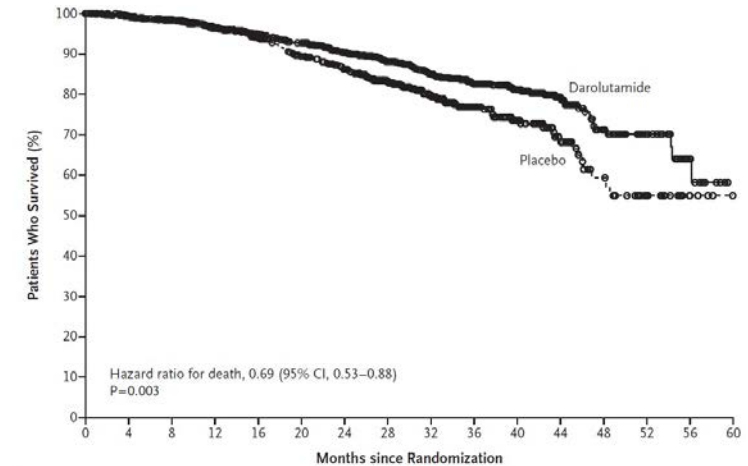
### SPARTAN



Number of patients		806	791	774	758	739	717	691	658	625	593	558	499	376	269	181	100	47	19	4	0
Apalutamide		806	791	774	758	739	717	691	658	625	593	558	499	376	269	181	100	47	19	4	0
Placebo		401	392	385	373	358	339	328	306	286	263	240	204	156	114	82	38	21	6	2	0

Arms	Overall survival	
	Median OS	HR (95% CI)
Treatment: Apalutamide Control: ADT	73.9 vs. 59.9 (months)	0.78 (0.64–0.96)
Median Follow up: <b>52.0 months</b>		

### ARAMIS



No. at Risk		955	932	908	863	816	771	680	549	425	293	214	129	69	37	12	0
Darolutamide		955	932	908	863	816	771	680	549	425	293	214	129	69	37	12	0
Placebo		554	530	497	460	432	394	333	261	182	130	93	54	28	16	4	0

Arms	Overall survival	
	Median OS	HR (95% CI)
Treatment: Darolutamide Control: ADT	NR vs. NR (months)	0.69 (0.53-0.88)
Median Follow up: <b>29.0 months</b>		

Sternberg CJ et al, NEJM 2020; Smith MR et al, Eur Urol 2021; Fizazi K et al, NEJM 2020



# Pathways/Targets & Agents

Pathway	Target	Agents
Angiogenesis	PDGF receptor	Olaratumab
	VEGF	Aflibercept
	VEGF receptor	Ramucirumab
Androgen signaling *	Androgen receptor, CYP17	Abi, Enza, Orteronel, Apalutamide, EPI-506, Darolutamide, Galeterone, <i>High dose testosterone</i>
Apoptosis	BCL-2	AT-101
	Clusterin, MDM2	Custirsen, MI-773
Cell Cycle *	Microtubules, CDK4/6	Docetaxel, Cabazitaxel, Palbociclib
DNA repair	PARP	Veliparib, Olaparib, Rucaparib, Niraparib, Talazoparib
Bone *	Osteoclast, RANKL, Integrins	Radium 223, Zoledronic acid, Denosumab, EMD 525797
Immune modulation *	Vaccine, CTLA-4	Sipuleucel-T, Ipilimumab
	PDL, Multiple	Pembrolizumab, PROSTVAC, Atezolizumab, Tasquinimod
Other Pathways	HSP27, Src MET +/-VEGFR2, I3K Bromodomain, <i>EZH2, TGF-B</i>	OGX-427, LY2875358, PAM4983g, OTX015, GSK525762, <i>Tazemetostat, Galunisertib, Lu-PSMA, Ipatasertib</i>

\* FDA approved based on Phase III trials or other registrational mechanism

Courtesy of Maha Hussain, MD, FACP, FASCO

# Life Prolonging Doublet and Triplet Therapies for Metastatic Hormone Sensitive Prostate Cancer

Trial	Experimental Arm	Comparison
CHAARTED	ADT + Docetaxel	ADT
STAMPEDE	ADT + Abiraterone/Pred	ADT
LATITUDE	ADT + Abiraterone/Pred	ADT
TITAN	ADT + Apalutamide	ADT (+/- Docetaxel 11%)
ENZAMET (+/- Docetaxel 45%)	ADT + Enzalutamide	ADT +NSAA
PEACE-1	ADT + Docetaxel + Abiraterone/Pred	ADT + Docetaxel
ARASENS	ADT + Docetaxel + Darolutamide	ADT + Docetaxel

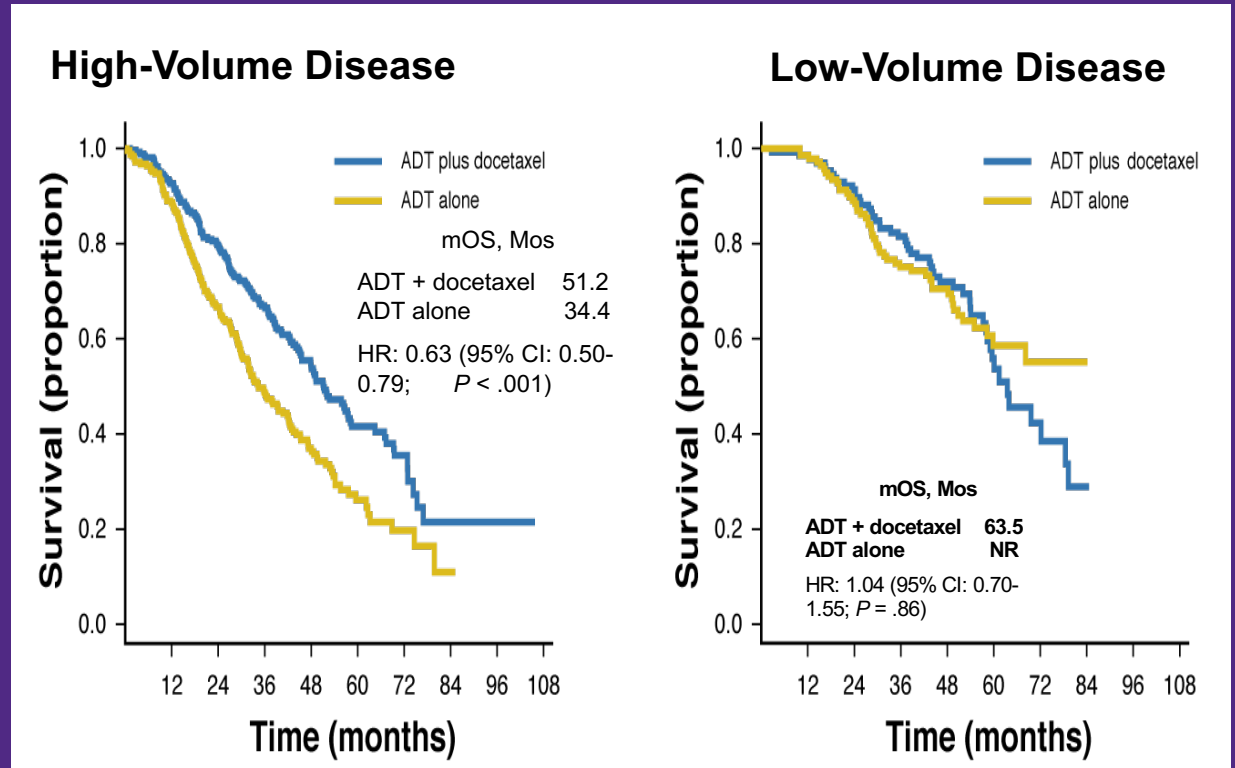
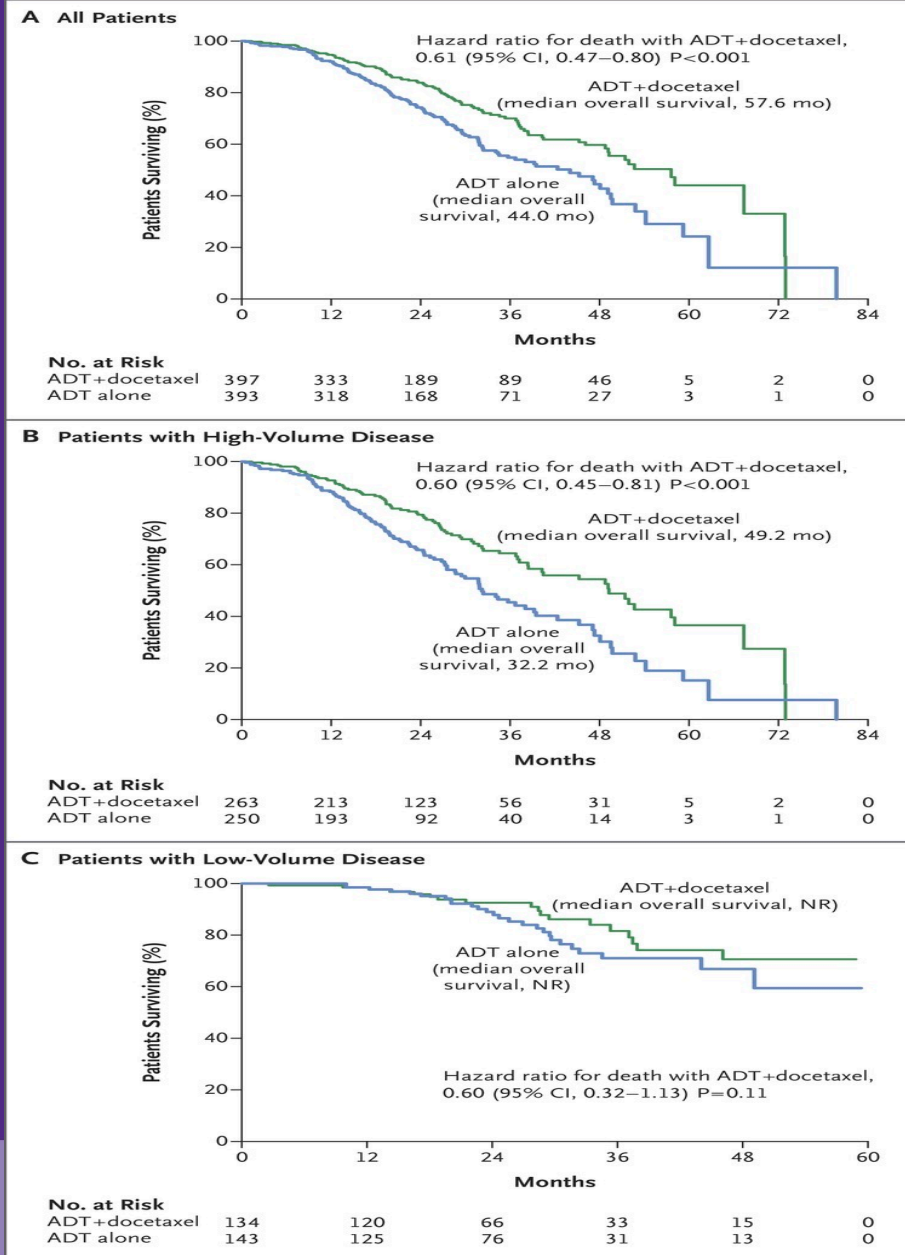
Courtesy of Maha Hussain, MD, FACP, FASCO

ADT: Androgen deprivation

# CHAARTED: ADT +/- Docetaxel in mHSPC

(N = 790, Median follow-up 53.7m)

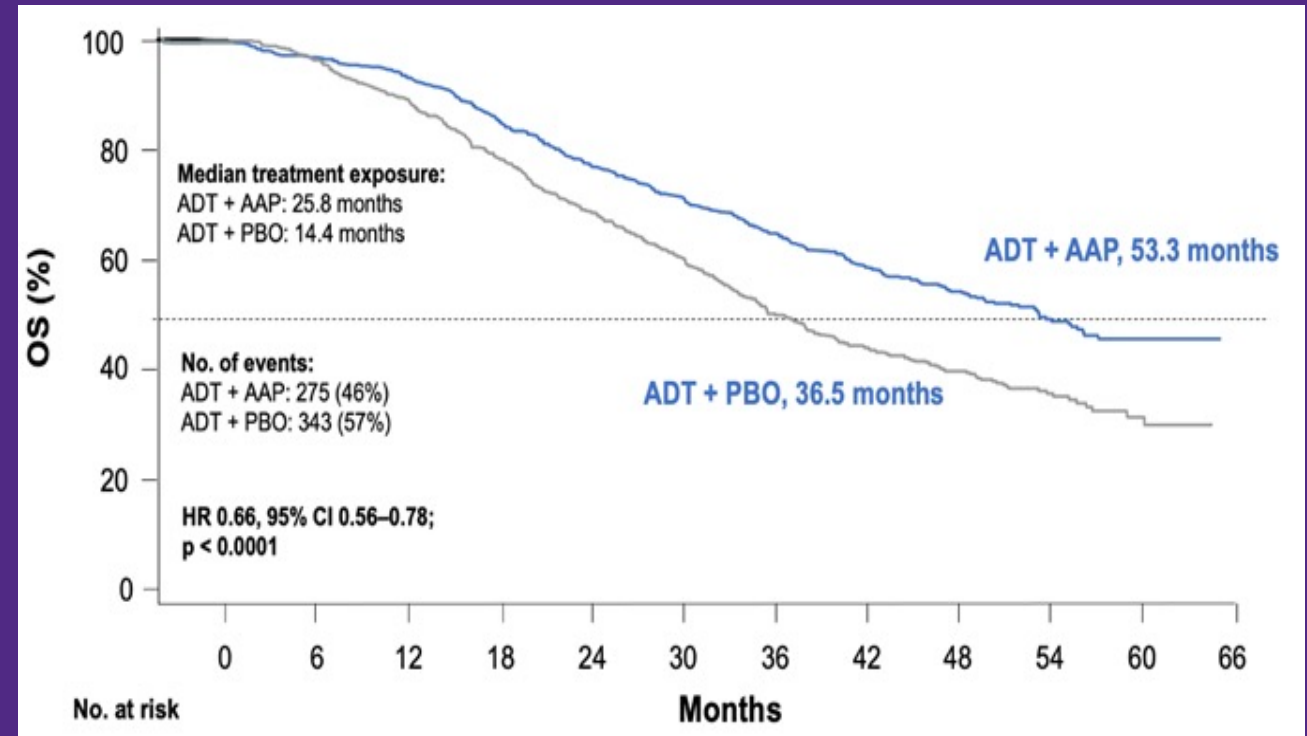
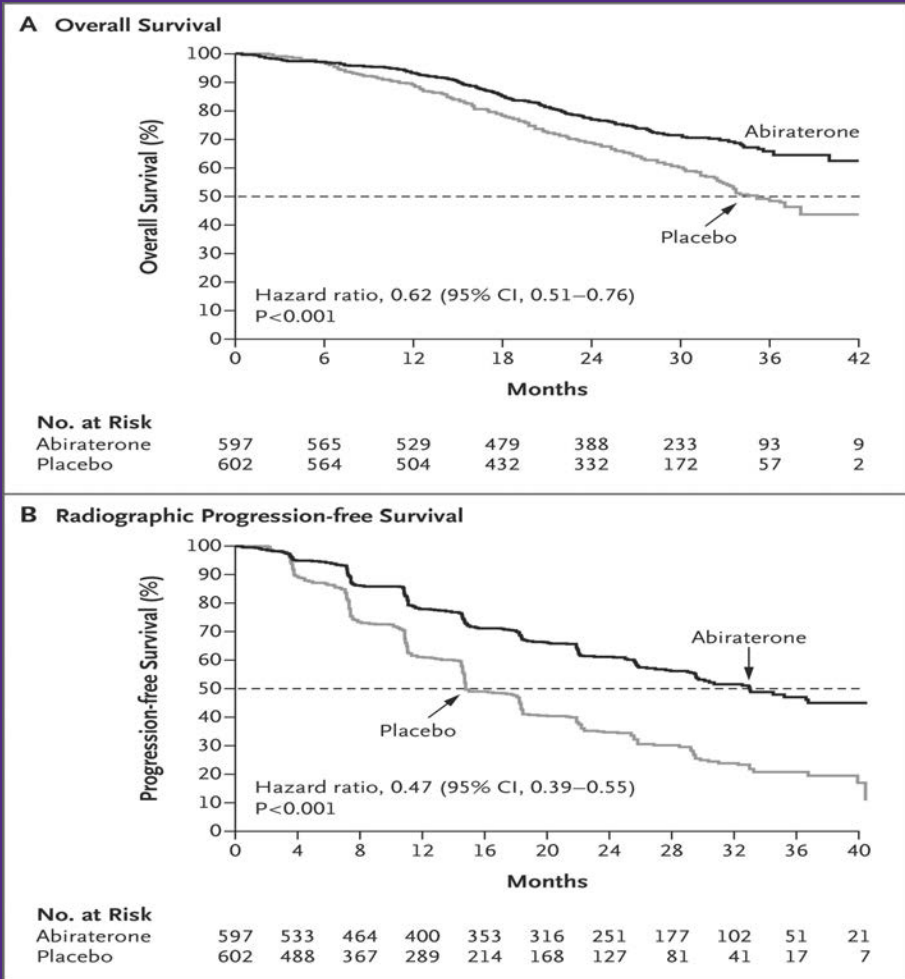
Long-Term Follow-up: High-Volume vs Low-Volume Disease



Kyriakopoulos CE, et al. J Clin Oncol. 2018

Courtesy of Maha Hussain, MD, FACP, FASCO

# LATITUDE: ADT + Abiraterone/Prednisone or Placebo in Newly Diagnosed High-Risk mHSPC



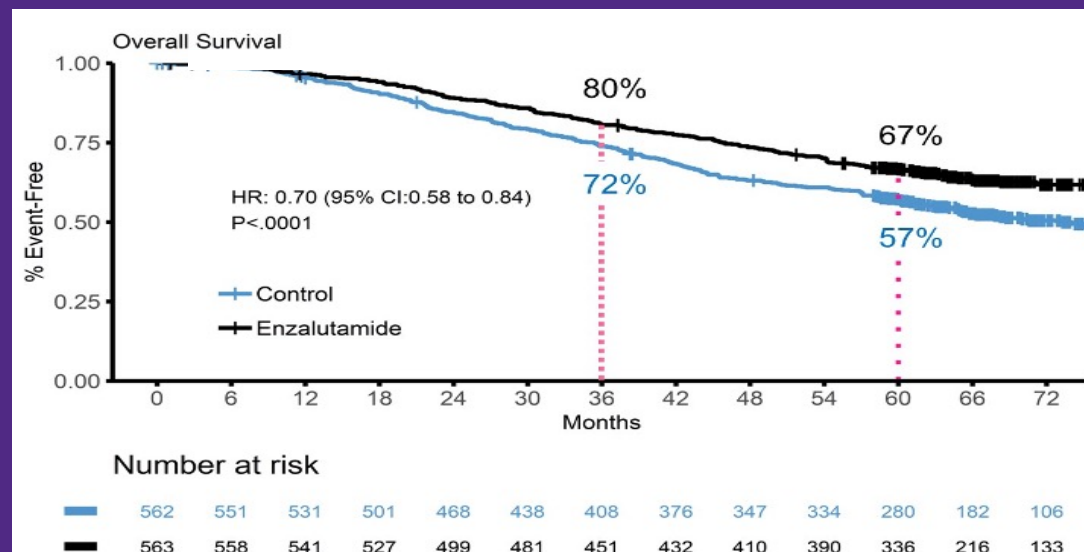
- Median follow-up of 51.8 months
- **34% reduction in risk of death**
- Median OS was significantly longer for abiraterone + ADT vs placebo + ADT
  - **53.3 months vs 36.5 months**
  - **HR = 0.66; p < 0.0001**

**OS rate at 3 years:**  
ADT + AA + P: 66%  
ADT + placebos: 49%

Courtesy of Maha Hussain, MD, FACP, FASCO

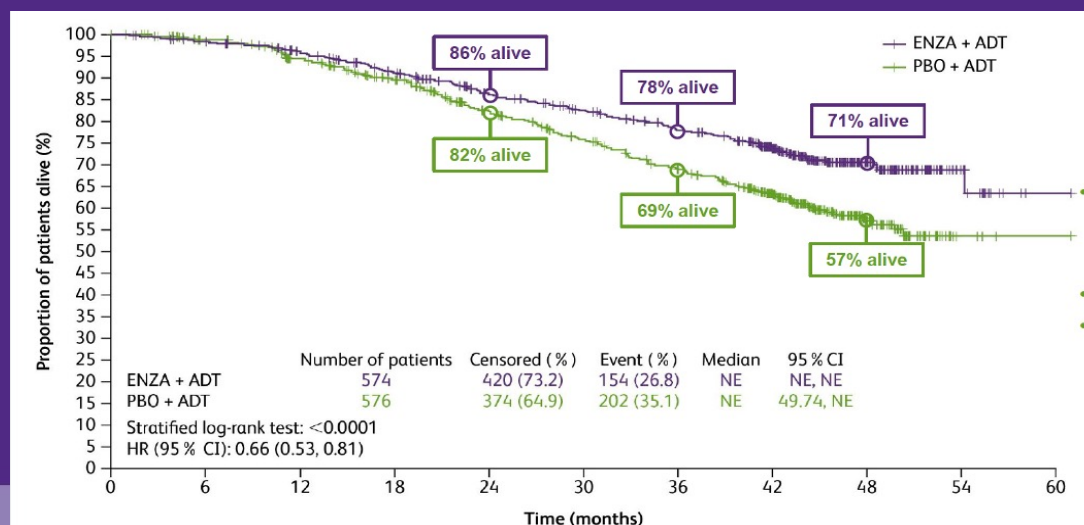
# Final Overall Survival (OS) Analyses: Enzalutamide for Metastatic Hormone-Sensitive Prostate Cancer

## ENZAMET<sup>1</sup> Enzalutamide + testosterone suppression (TS)



- Median follow-up of 68.0 months
- 30% reduction in risk of death
- Median OS was significantly longer for enzalutamide + TS versus standard NSAA + TS
  - **Not reached vs 73.2 months**
  - **HR = 0.70; p < 0.0001**

## ARCHES<sup>2</sup> Enzalutamide + ADT

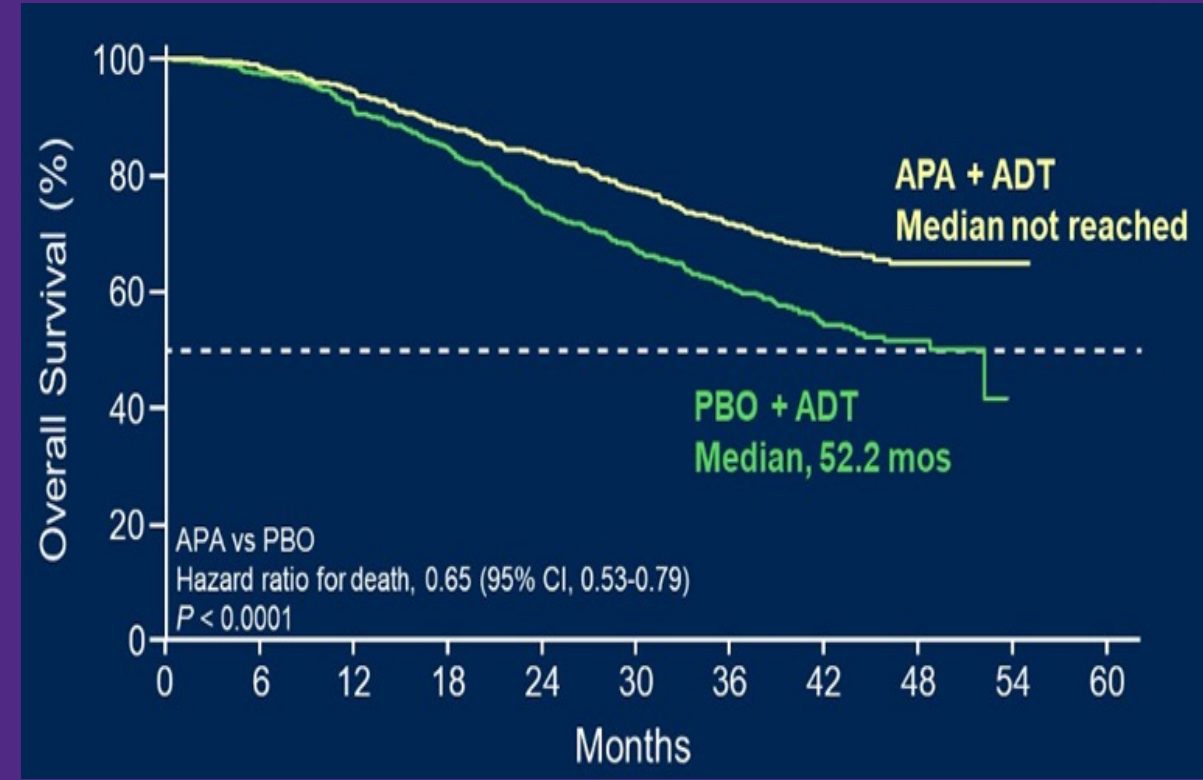
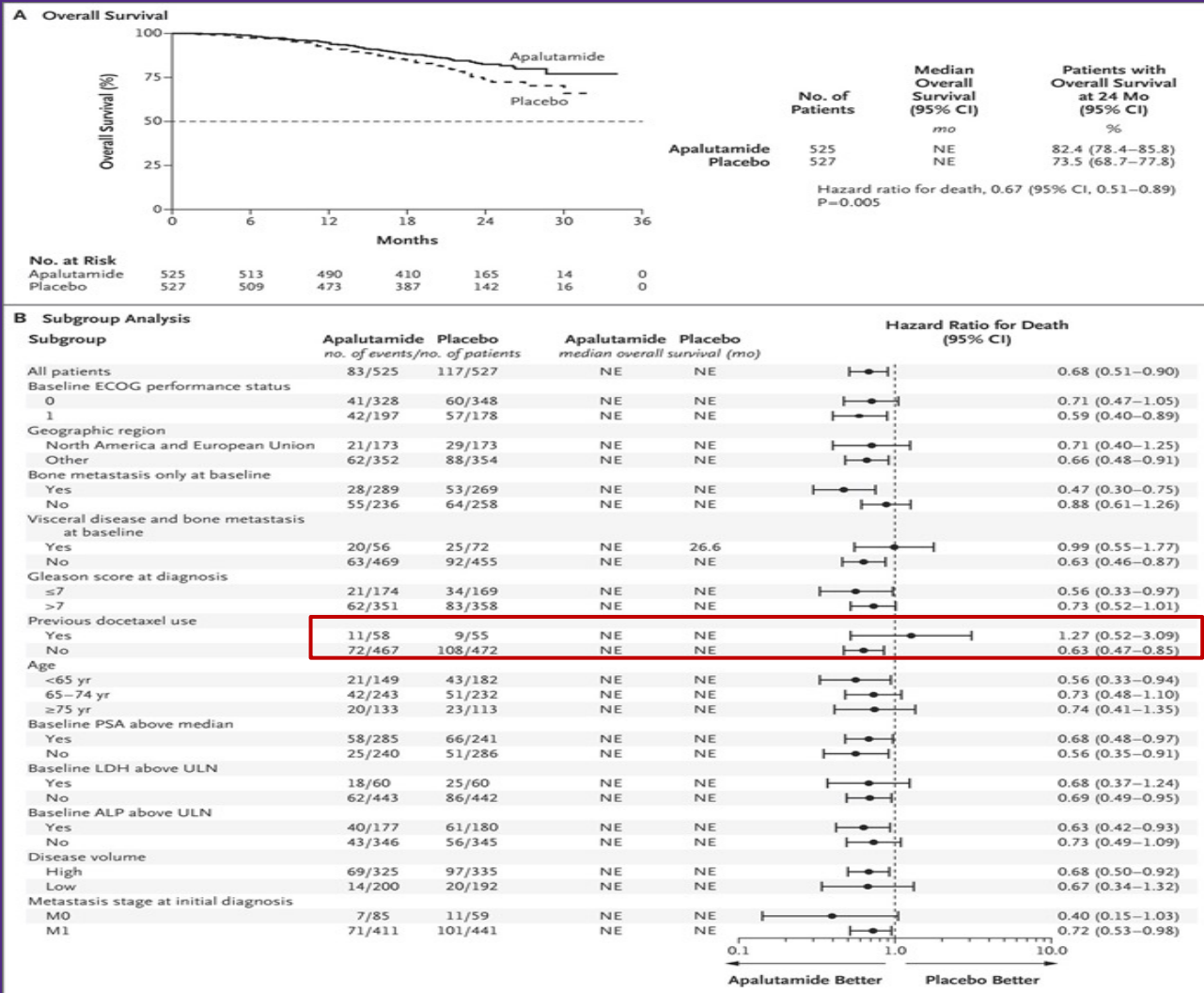


- Median follow-up of 44.6 months
- 34% reduction in risk of death
- Median OS was not reached for enzalutamide plus ADT, but was 47.7 months (95% CI, 43.3 to not evaluable) for placebo plus ADT.
  - **HR = 0.66; p < 0.001**

Courtesy of Maha Hussain, MD, FACP, FASCO



# Apalutamide for Metastatic, Castration-Sensitive Prostate Cancer



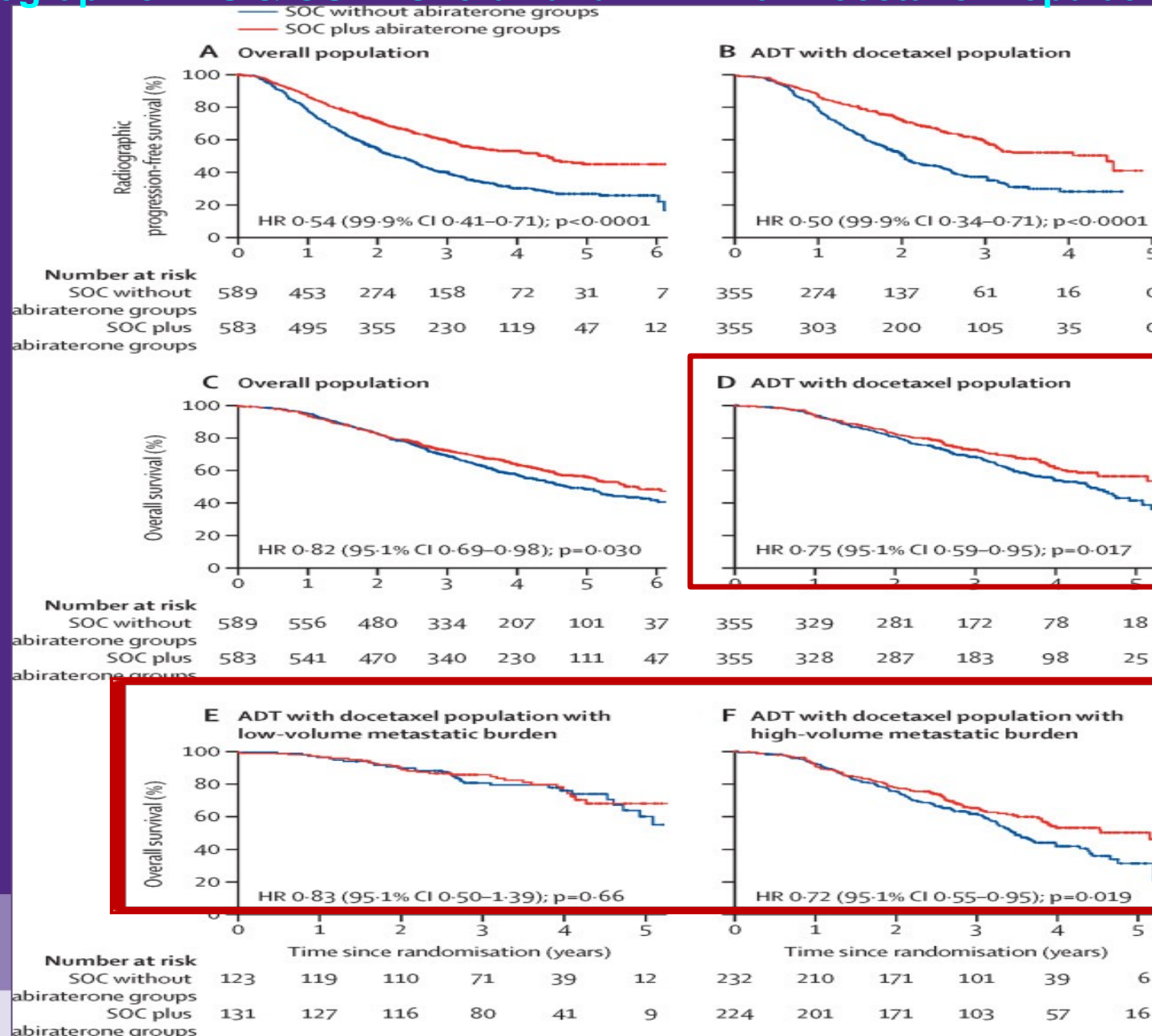
- 8% difference in OS at 2 years
- Reduced risk of death by 33%

- Median follow-up of 44.0 months
  - 35% reduction in risk of death
- Median OS was significantly longer for apalutamide + ADT vs placebo + ADT:
  - Not reached vs 52.2 months
  - HR = 0.65; p < 0.0001

Courtesy of Maha Hussain, MD, FACP, FASCO

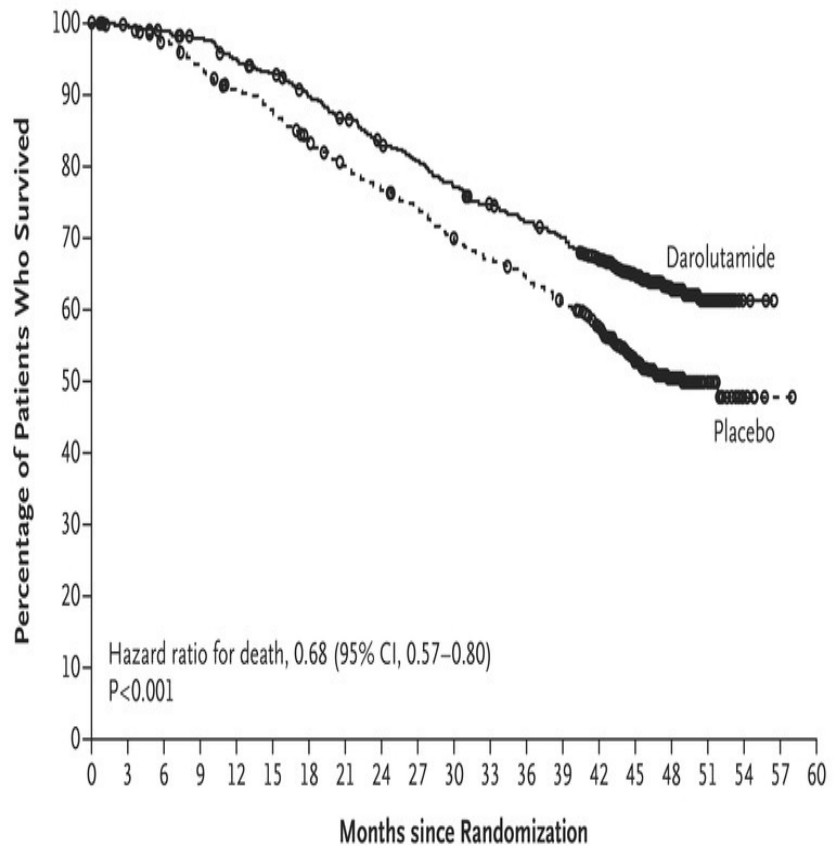
# Triplet #1: PEACE-1: ADT + Abiraterone/Prednisone in De Novo mHSPC

## Radiographic PFS & OS in Overall and ADT with Docetaxel Population



# Triplet #2: ARASENS: ADT + Docetaxel + Darolutamide vs Placebo

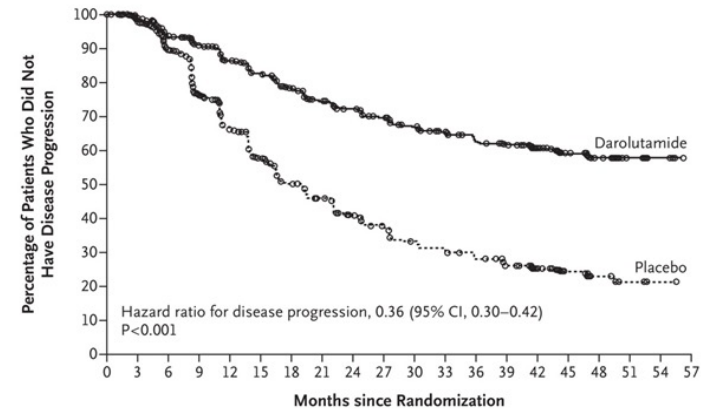
## Overall Survival



No. at Risk		0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Darolutamide	651	645	637	627	608	593	570	548	525	509	486	468	452	436	402	267	139	56	9	0	0	
Placebo	654	646	630	607	580	565	535	510	488	470	441	424	402	383	340	218	107	37	6	1	0	

	Median Survival (95% CI)
Darolutamide	mo NE
Placebo	48.9 (44.4-NE)

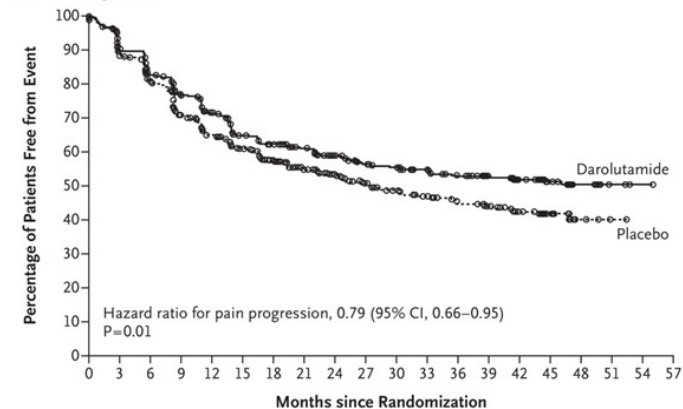
A Time to Castration-Resistant Prostate Cancer



No. at Risk		0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57
Darolutamide	651	616	567	537	496	465	433	401	380	358	340	325	308	292	211	132	54	18	5	0	
Placebo	654	613	533	425	348	289	242	215	185	165	143	134	120	105	79	38	14	4	1	0	

	Median Time to Castration-Resistant Prostate Cancer (95% CI)
Darolutamide	mo NE
Placebo	19.1 (16.5-21.8)

B Time to Pain Progression



No. at Risk		0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57
Darolutamide	651	447	401	363	327	284	265	249	228	211	202	189	175	159	106	67	31	6	1	0	
Placebo	654	442	395	332	288	255	221	188	160	134	119	107	93	86	62	35	8	1	0	0	

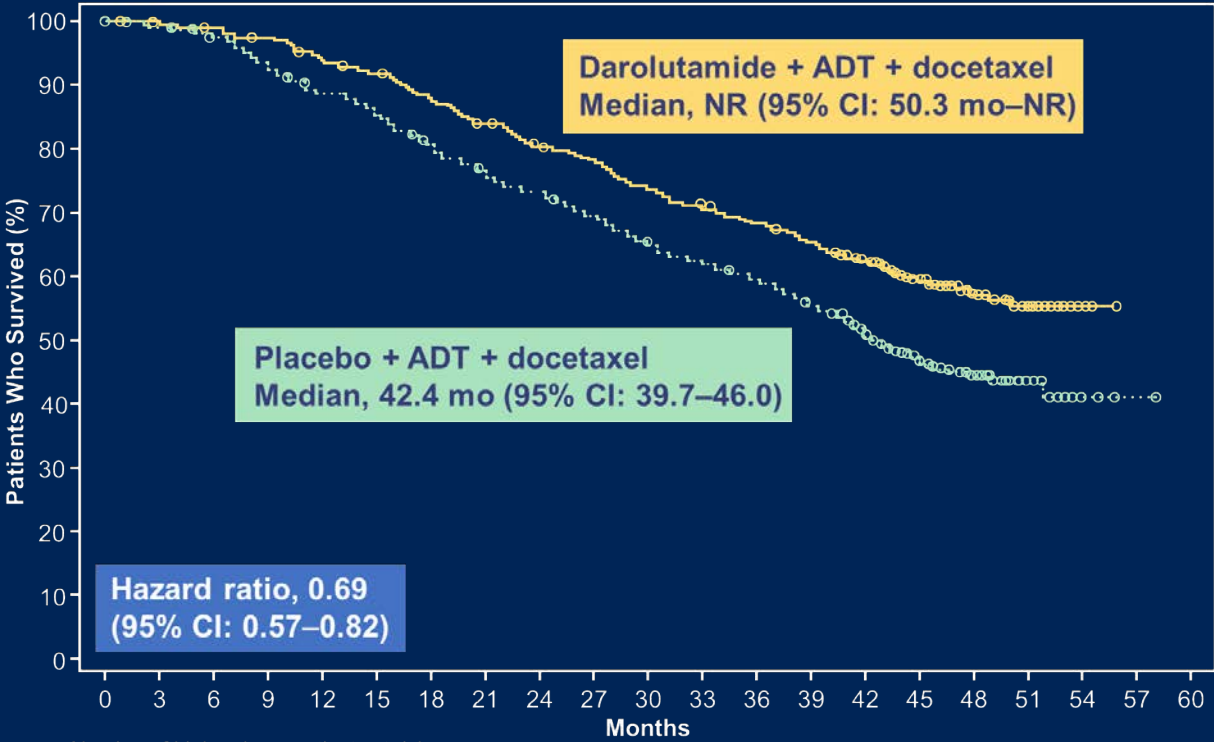
	Median Time to Pain Progression (95% CI)
Darolutamide	mo NE (30.5-NE)
Placebo	27.5 (22.0-36.1)

Courtesy of Maha Hussain, MD, FACP, FASCO



# ARASENS VOLUME Subgroups: Overall Survival

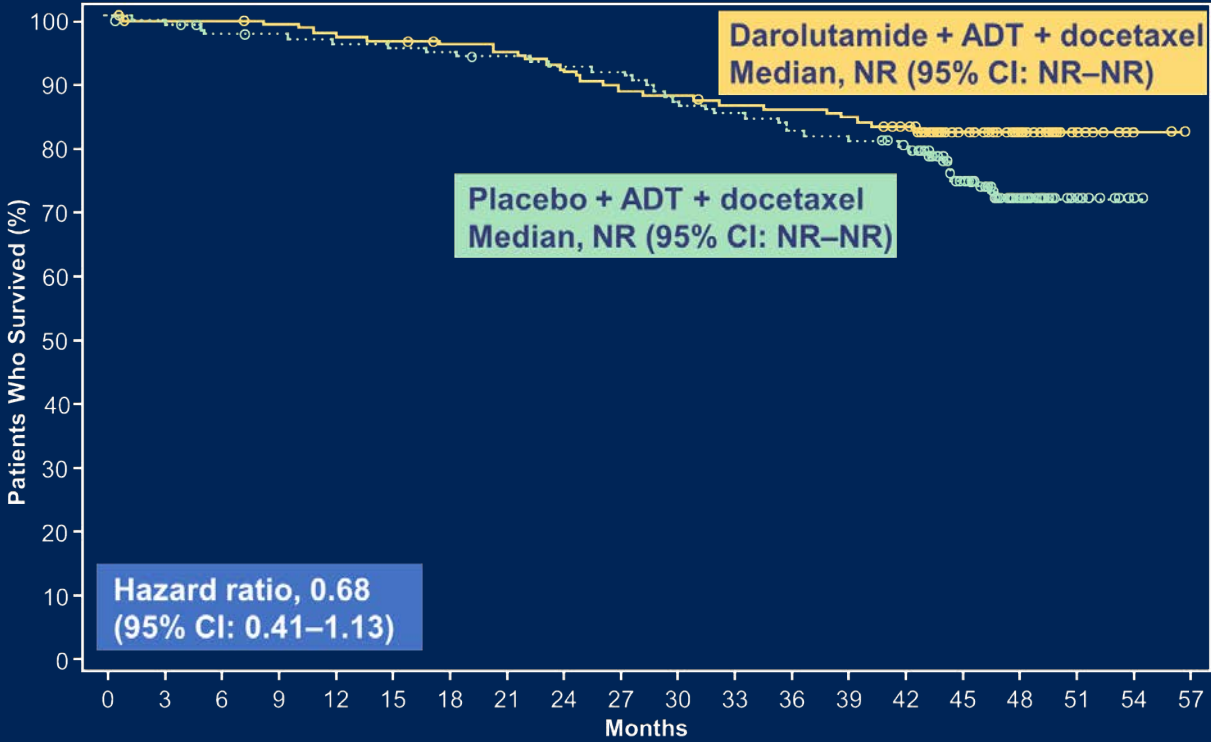
## High-volume mHSPC



Number of high-volume patients at risk

Darolutamide	497	494	486	479	462	449	429	408	389	378	356	341	326	312	285	193	103	43	6	0	0
Placebo	508	502	491	469	444	430	401	378	358	341	319	304	286	269	233	153	72	23	4	1	0

## Low-volume mHSPC



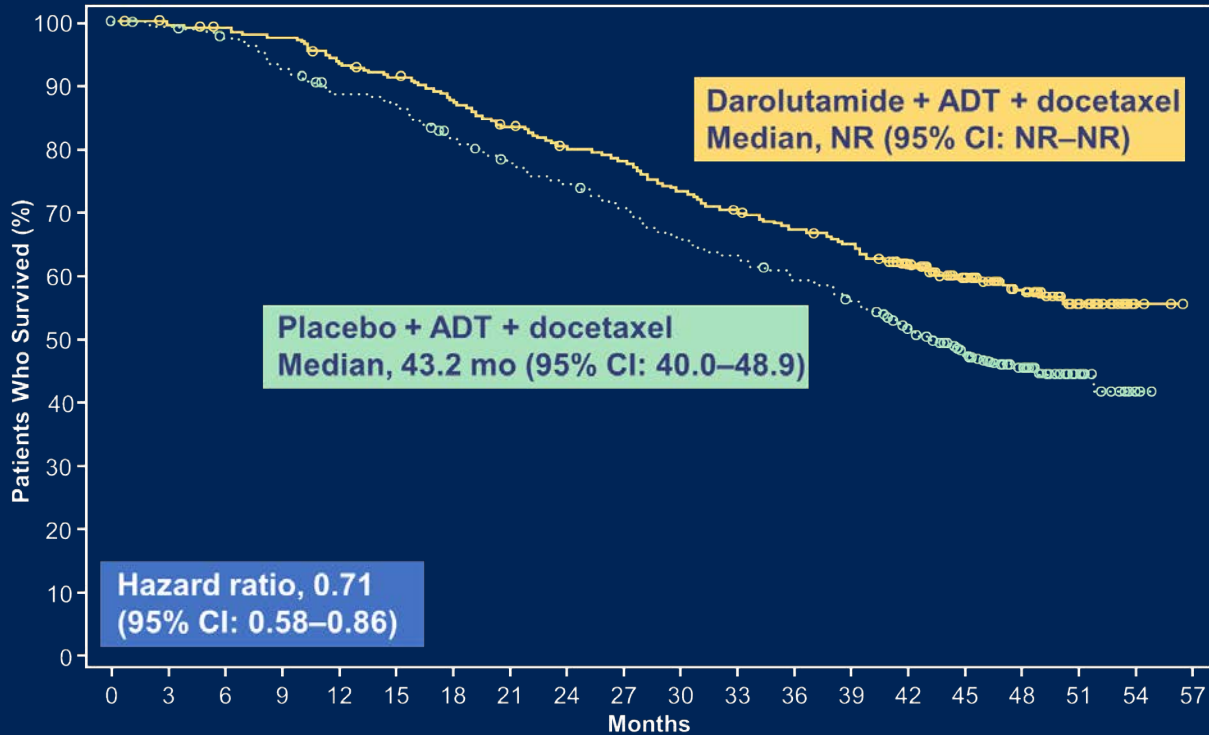
Number of low-volume patients at risk

Darolutamide	154	151	151	148	146	144	141	140	136	131	130	127	126	124	117	74	36	13	3	0
Placebo	146	144	139	138	136	135	134	132	130	129	122	120	116	114	107	65	35	14	2	0

Analysis by unstratified Cox regression model. CI, confidence interval; NR, not reached.

# ARASENS RISK Subgroups: Overall Survival

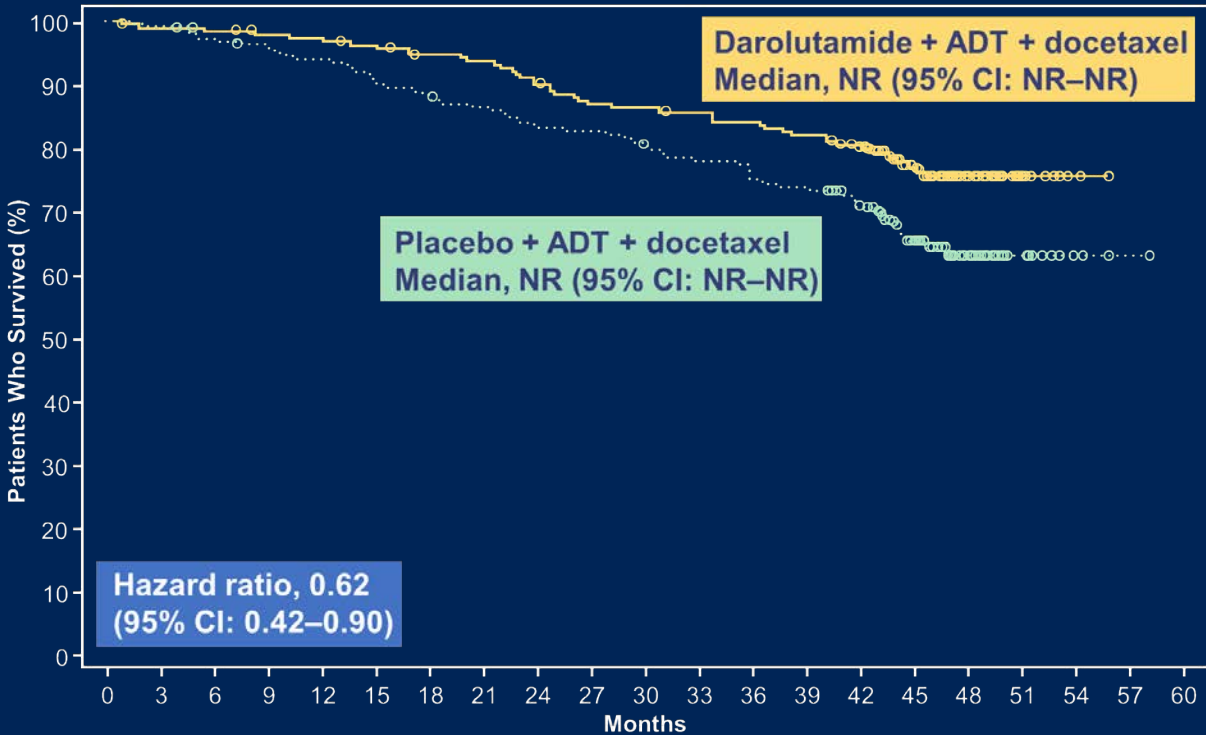
High-risk mHSPC



Number of high-risk patients at risk

Darolutamide	452	450	443	437	419	407	389	369	352	344	322	308	294	282	257	177	99	42	6	0
Placebo	460	453	443	423	400	392	367	346	330	313	290	277	261	245	215	148	72	24	3	0

Low-risk mHSPC



Number of low-risk patients at risk

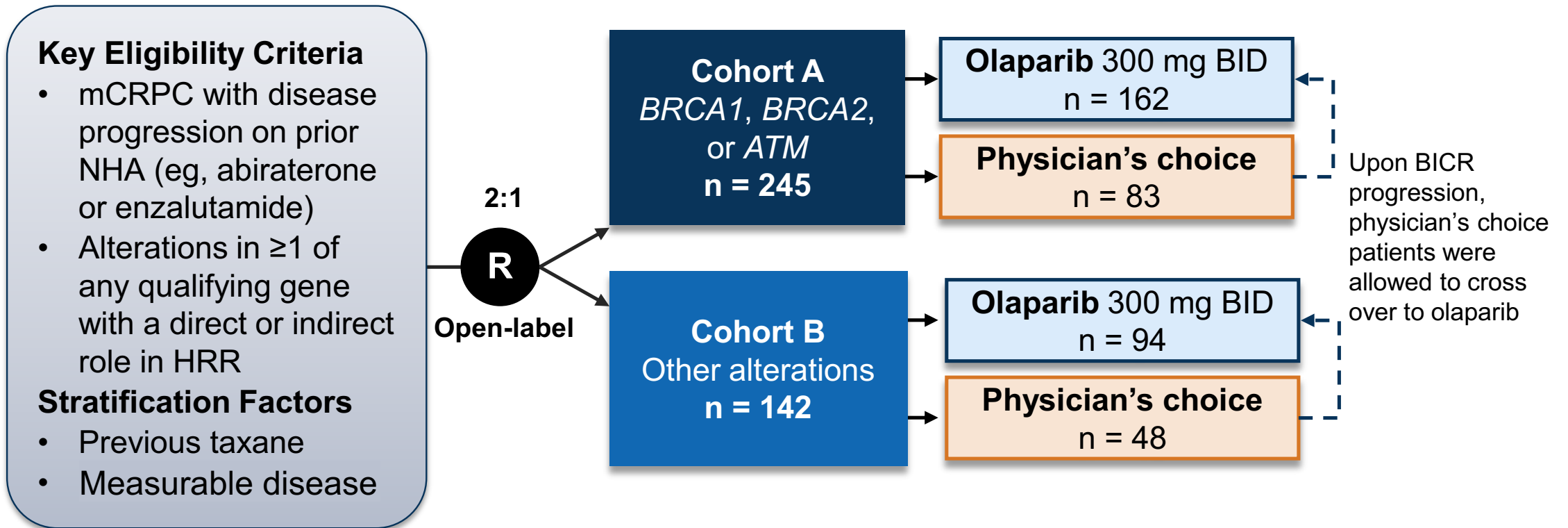
Darolutamide	199	195	194	190	189	186	181	179	173	165	164	160	158	154	145	90	40	14	3	0	0
Placebo	194	193	187	184	180	173	168	164	158	157	151	147	141	138	125	70	35	13	3	1	0

# Summary of PARPi *monotherapy* trials in mCRPC

Study and treatment	Prior therapy	HRR status criteria; Sample type	Primary endpoint	Results
<b>TOPARP-A<sup>1</sup></b> <b>Olaparib</b> 400 mg BID (N=50)	1–2 taxane CT regimens; 98% had prior NHT	Deficiency not required; tumor	Composite response rate	<b>33%</b> overall; 88% (14 of 16) with DDR gene alterations
<b>TOPARP-B<sup>2</sup></b> <b>Olaparib</b> 300 mg or 400 mg BID, randomized 1:1 (N=98)	1–2 taxane CT regimens; 88%–92% had prior NHT	Deleterious germline or somatic DDR gene alterations; tumor	Composite response rate	<b>39.1%</b> 300-mg cohort; <b>54.3%</b> 400-mg cohort
<b>TRITON2<sup>3</sup></b> <b>Rucaparib</b> 600 mg BID (N=115)	1 taxane and 1–2 NHT	Deleterious germline or somatic <i>BRCA1/2</i> alteration; tumor or plasma	ORR by blinded independent radiology review	<b>43.5%</b> (27 of 62)
<b>GALAHAD<sup>4</sup></b> <b>Niraparib</b> 300 mg QD (N=289)	≥1 taxane and ≥1 NHT	Deleterious germline or somatic alteration in ≥1 of 8 prespecified DDR genes; tumor or plasma	ORR in patients with <i>BRCA</i> mutation and measurable disease	<b>34.2%</b> (26 of 76 measurable <i>BRCA</i> cohort) 10.6% (5 of 47 measurable non- <i>BRCA</i> cohort)
<b>TALAPRO-1<sup>5</sup></b> <b>Talazoparib</b> 1 mg QD (N=128)	1–2 CT regimens (≥1 taxane) and ≥1 NHT	Deleterious germline or somatic alterations in ≥1 of 11 prespecified DDR-HRR genes; tumor or plasma	ORR by blinded independent review	<b>29.8%</b> (31 of 104)

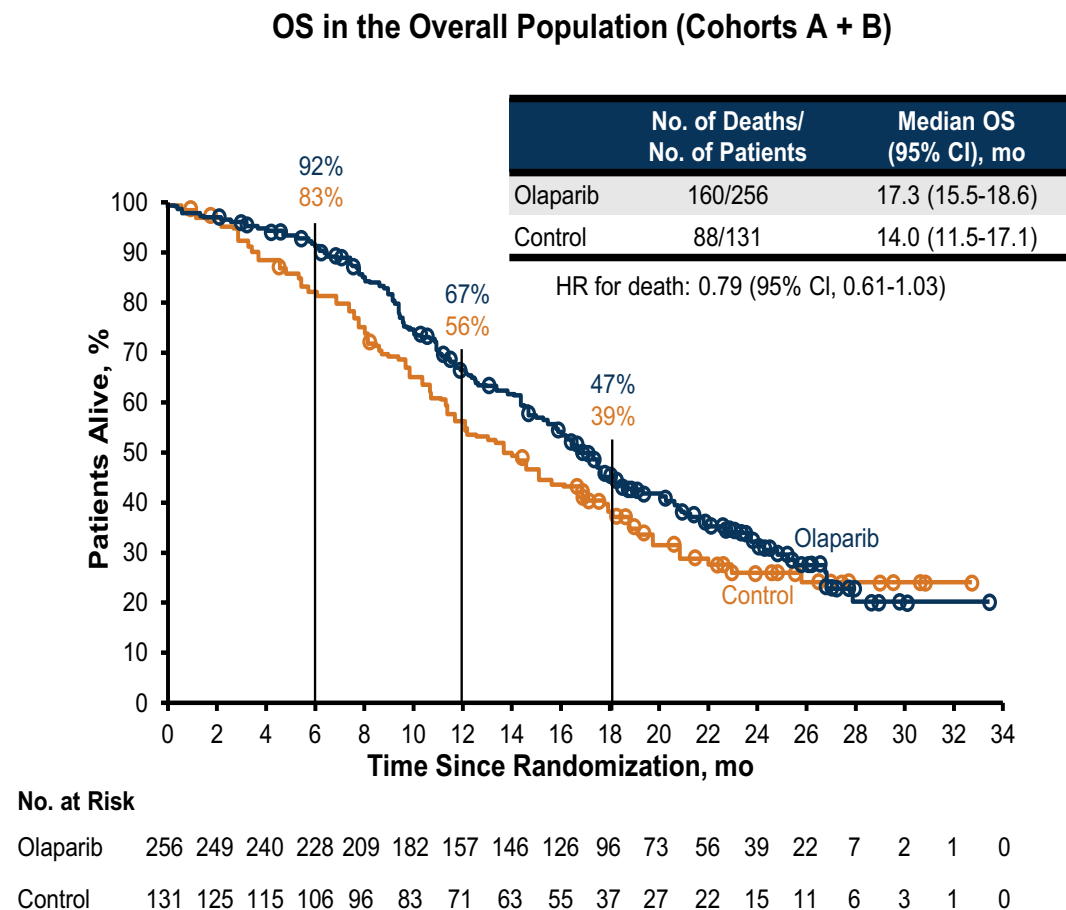
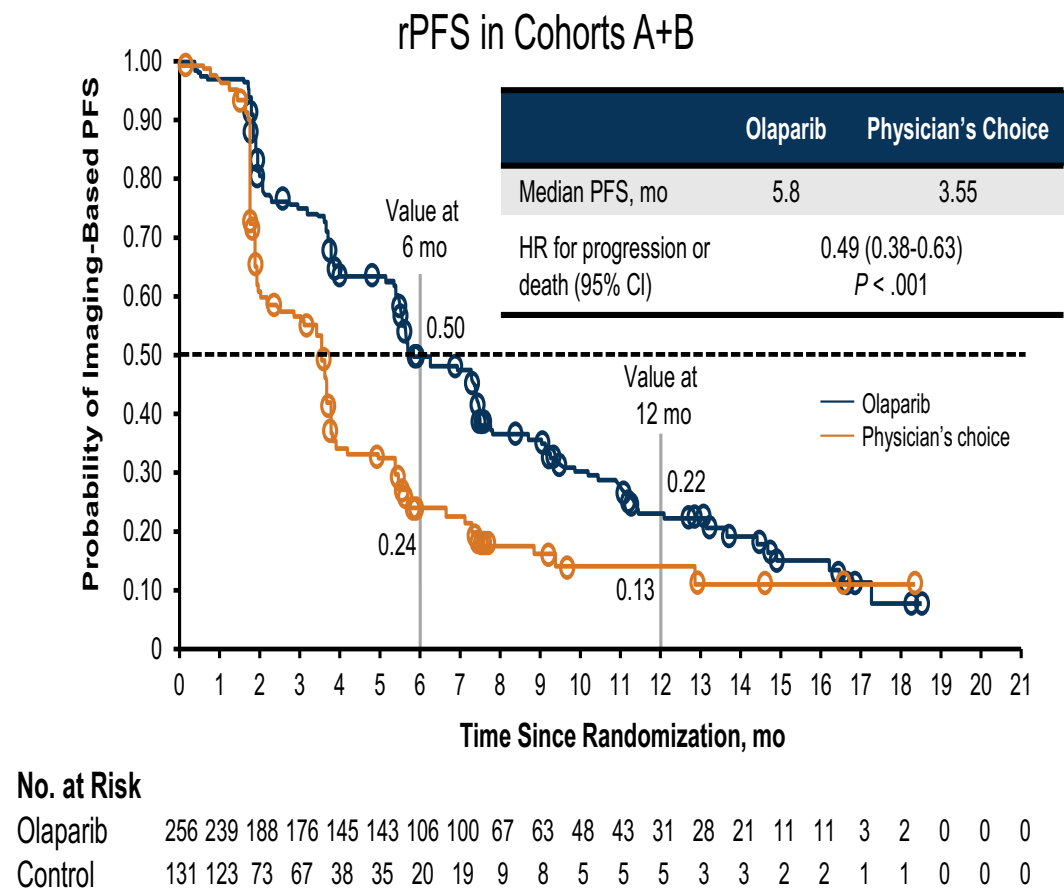
**1.** Mateo J et al. *N Engl J Med*. 2015;373:1697-708; **2.** Mateo J et al. *Lancet Oncol*. 2020;21:162-174; **3.** Abida W et al. *J Clin Oncol*. 2020;38:3763-3772; **4.** Smith MR et al. *Lancet Oncol*. 2022;23:362-373; **5.** de Bono JS et al. *Lancet Oncol*. 2021;22:1250-1264.

# Olaparib: PROfound, Randomized Phase 3 Study

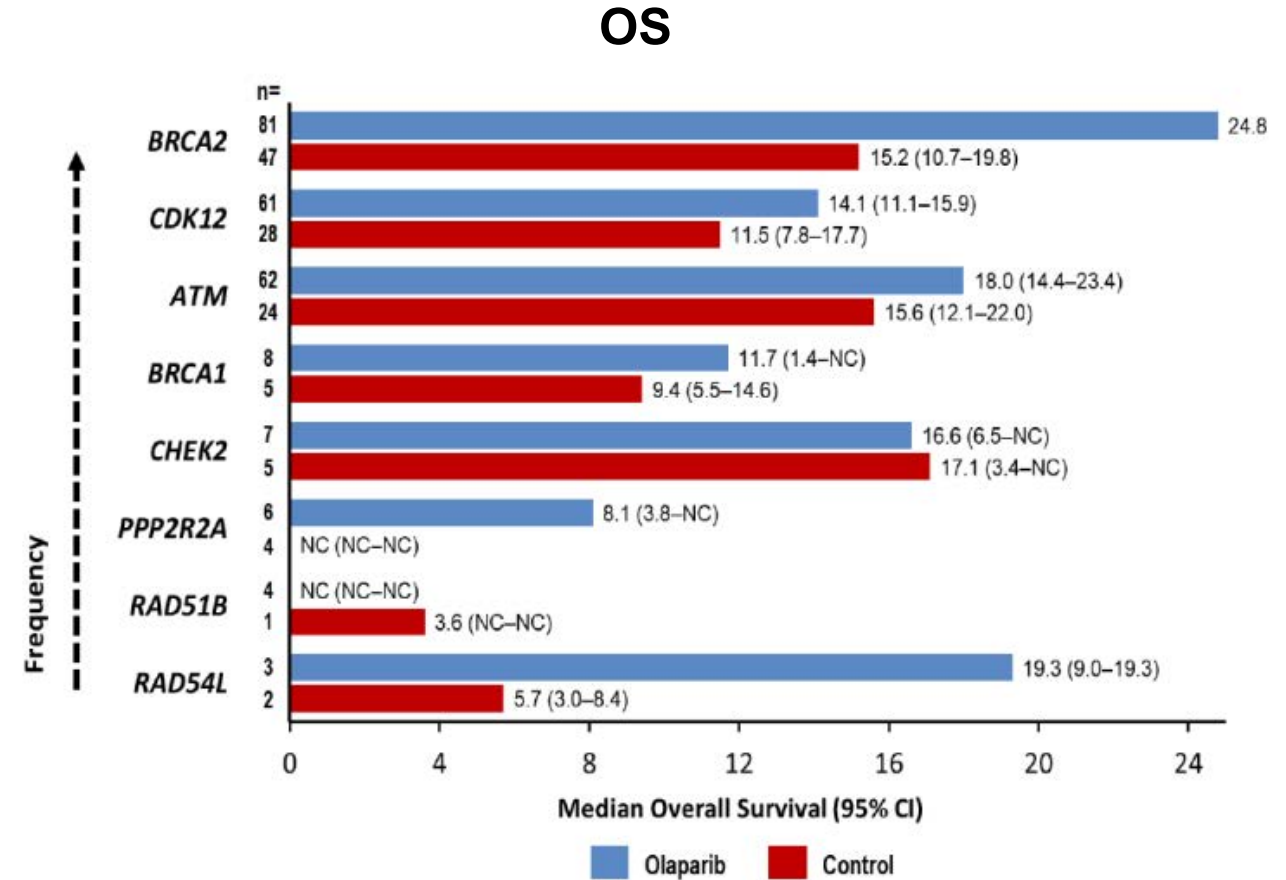
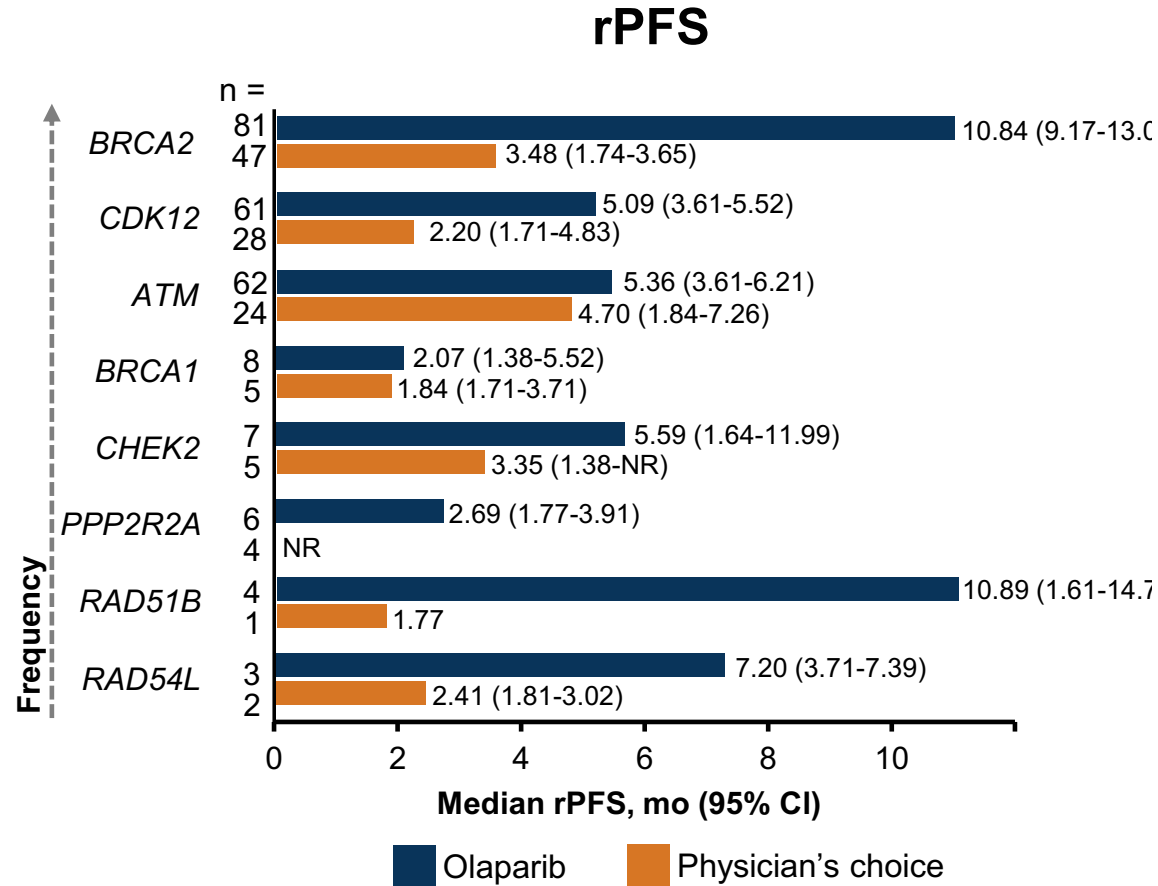


- Primary endpoint: rPFS in cohort A (RECIST 1.1 and PCWG3 by BICR)
- Key secondary endpoints: rPFS (cohorts A+B); confirmed radiographic ORR in cohort A; time to pain progression in cohort A; OS in cohort A

# PROfound: rPFS and OS in whole population (A+B)



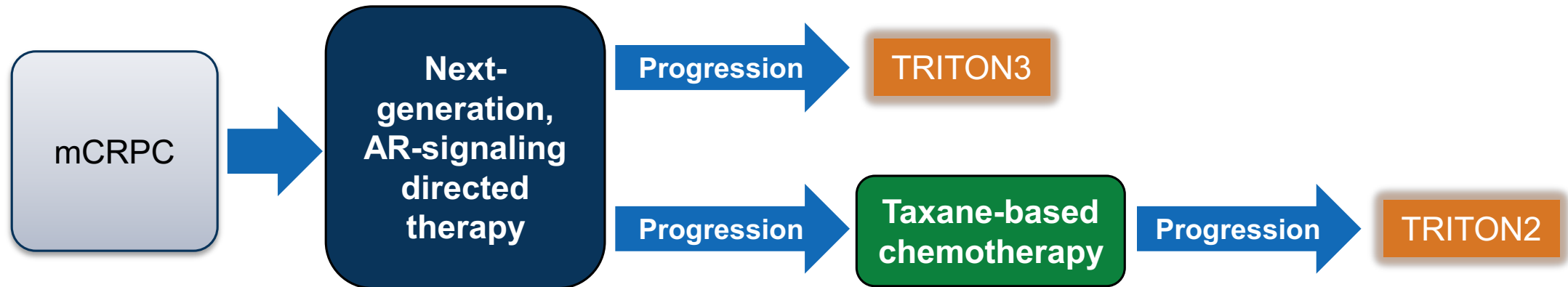
# PROfound: Gene-by-gene, rPFS and OS analyses



1. de Bono J et al. *N Engl J Med.* 2020;382:2091-2102. 2. Hussain M et al. *N Engl J Med.* 2020.

Courtesy of Emmanuel S Antonarakis, MD

# Rucaparib: TRITON2 and TRITON3 studies



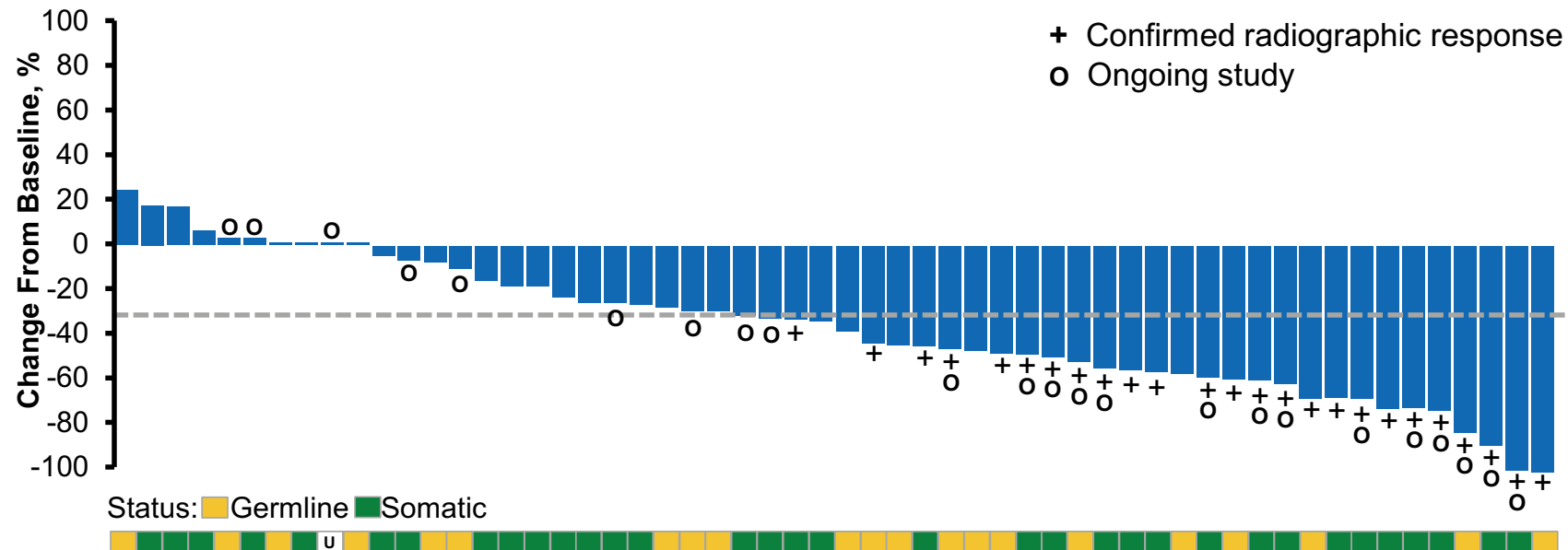
HRR-deficiency is defined by a deleterious alteration in *BRCA1*, *BRCA2*, *ATM*, or 12 other HRR genes (*BARD1*, *BRIP1*, *CDK12*, *CHEK2*, *FANCA*, *NBN*, *PALB2*, *RAD51*, *RAD51B*, *RAD51C*, *RAD51D*, *RAD54L*)



# TRITON2: Objective response rate (ORR)

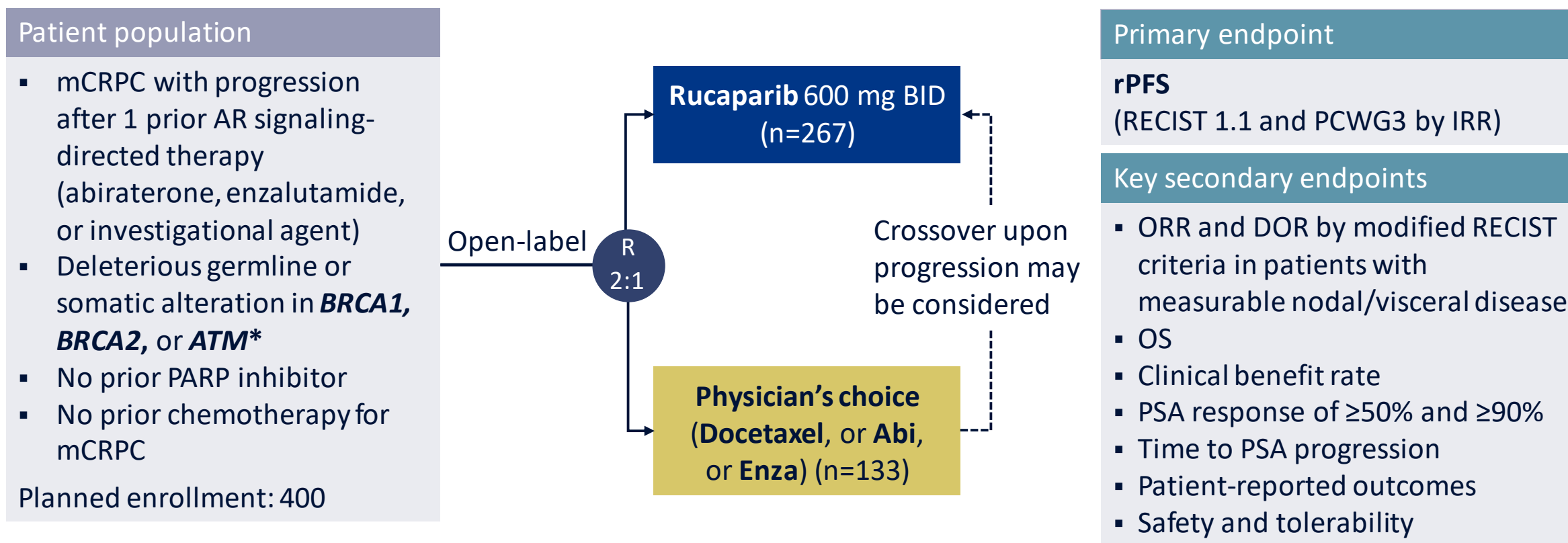
	DDR Gene				
	<i>BRCA</i> 1/2 (n = 57)	<i>ATM</i> (n = 21)	<i>CDK12</i> (n = 9)	<i>CHEK2</i> (n = 5)	Other (n = 13)
<b>ORR, n (%) [95% CI]</b>	25 (43.9) [30.7-57.6]	2 (9.5) [1.2-30.4]	0 [0.0-33.6]	0 [0.0-52.2]	5 (38.5) [13.9-68.4]
CR, n (%)	3 (5.3)	0	0	0	1 (7.7)
PR, n (%)	22 (38.6)	2 (9.5)	0	0	4 (30.8)
<b>SD, n (%)</b>	26 (45.6)	10 (47.6)	5 (55.6)	3 (60.0)	6 (46.2)
<b>PD, n (%)</b>	5 (8.8)	8 (38.1)	3 (33.3)	2 (40.0)	1 (7.7)
<b>N/E, n (%)</b>	1 (1.8)	1 (4.8)	1 (11.1)	0	1 (7.7)

Best Change From Baseline in Sum of Target Lesions in Patients With *BRCA* 1/2 Alteration (N = 56)





# TRITON3: Randomized phase III trial

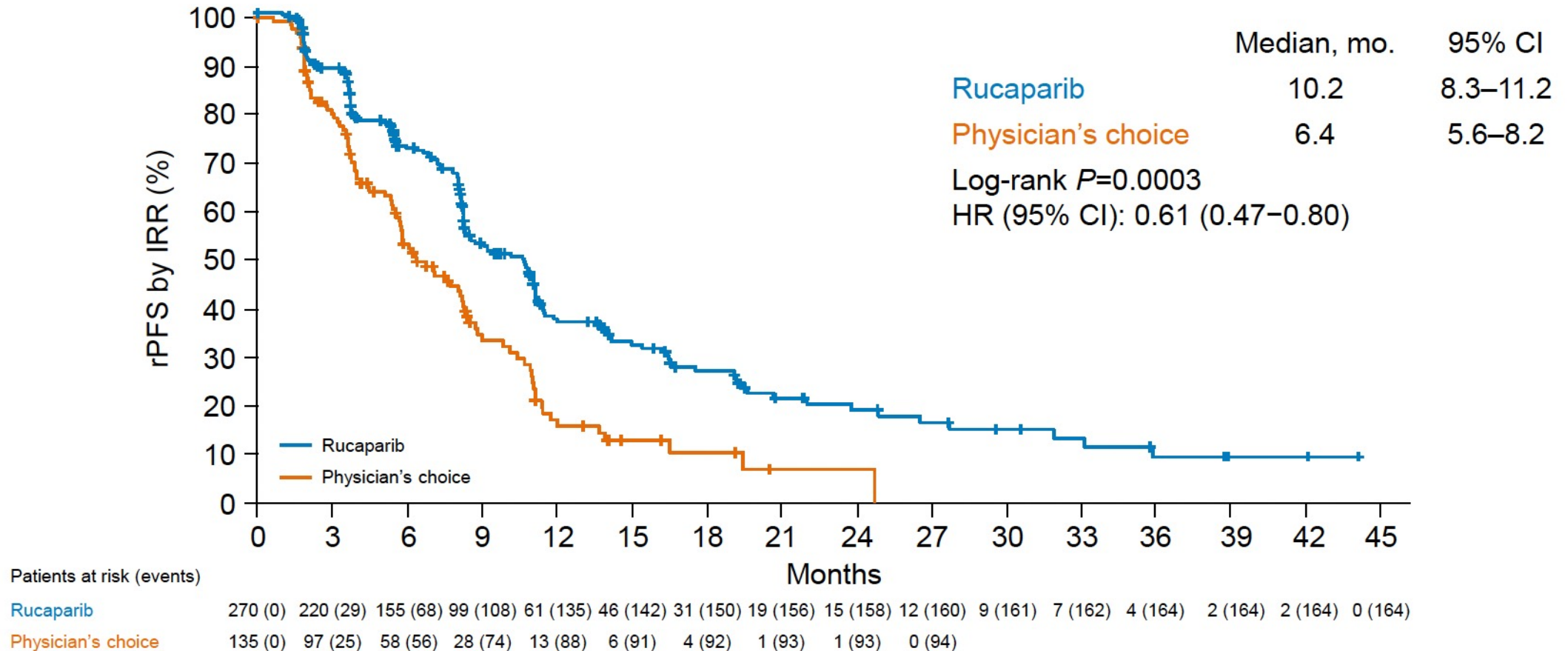


\*Mutations identified in blood, archival tissue, or screening tumor tissue

Ryan CJ et al. ASCO GU 2018; abst TPS389; **NCT02975934**.

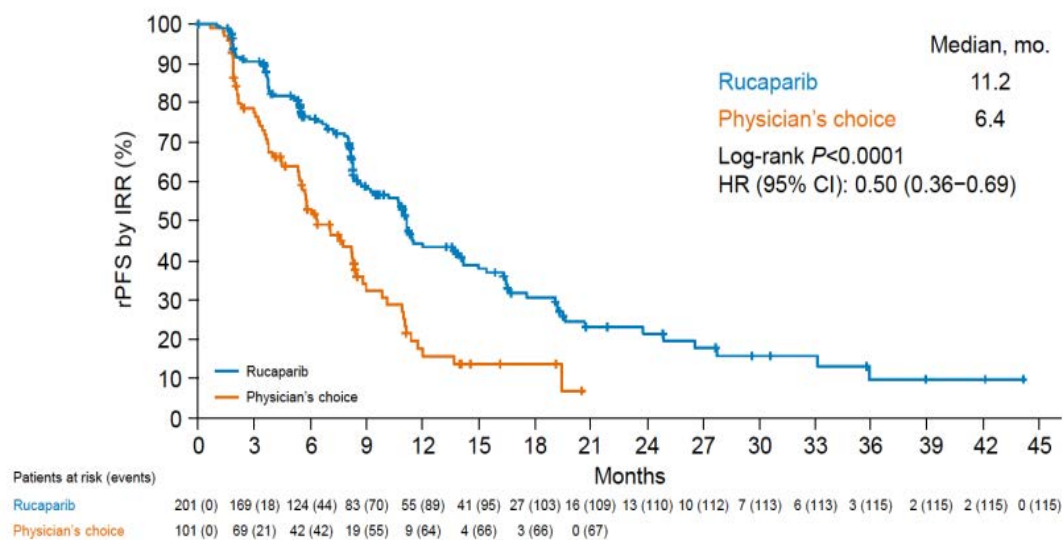
Courtesy of Emmanuel S Antonarakis, MD

# TRITON3: rPFS in ITT population

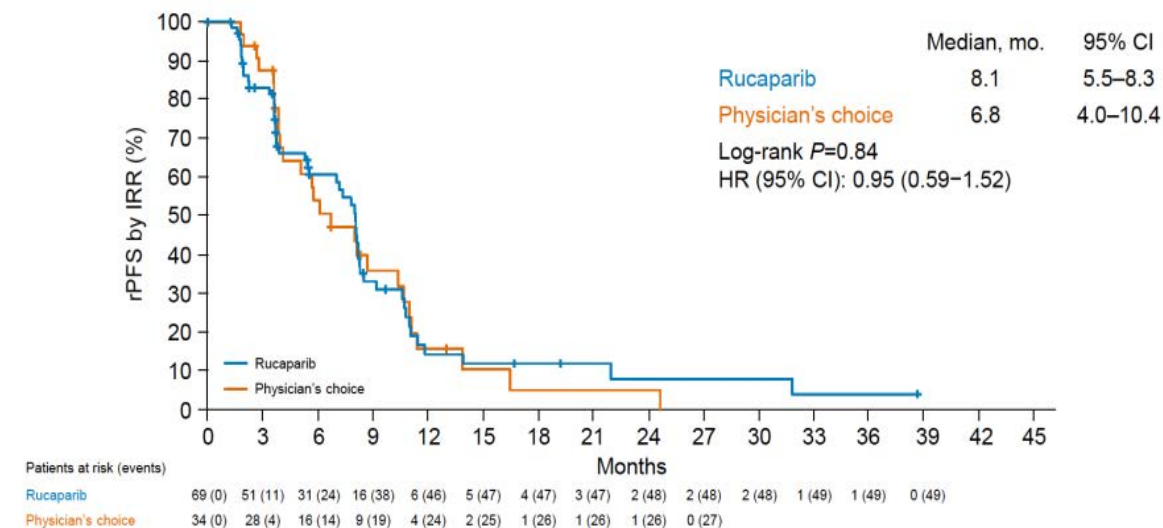


# TRITON3: rPFS in *BRCA1/2* and *ATM* subgroups

## *BRCA1/2* Subgroup



## *ATM* Subgroup



Bryce A, et al. Presented at PCF Retreat 2022.

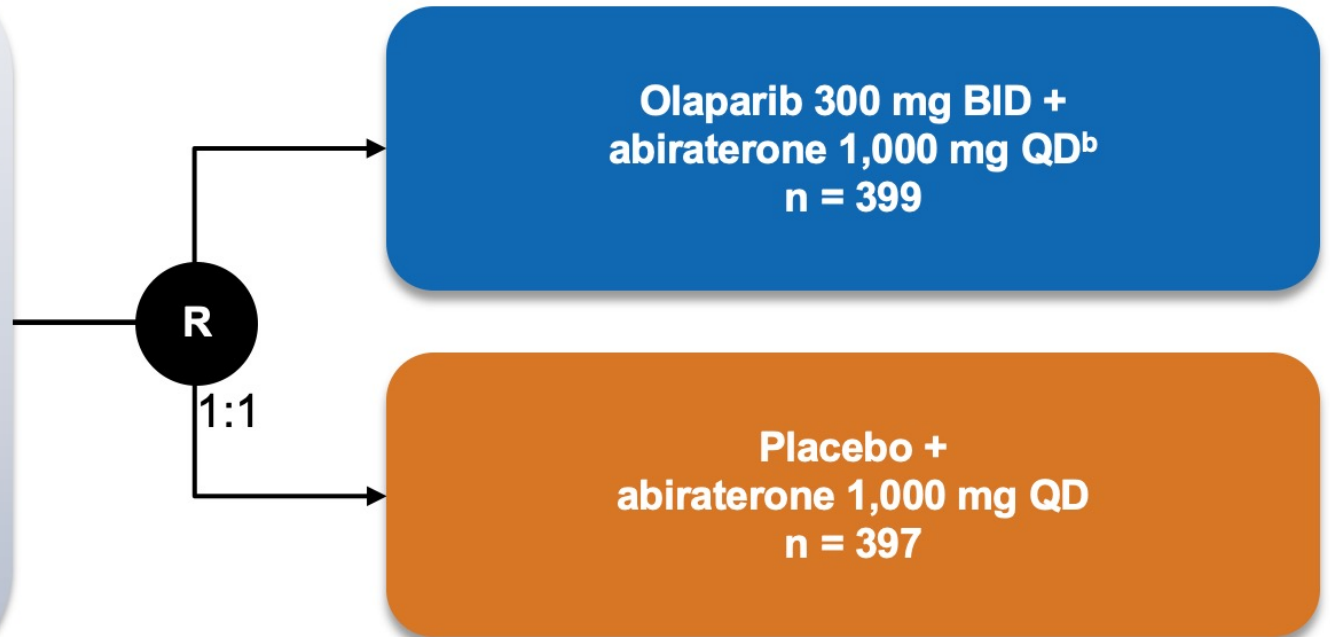
# PROpel: Abiraterone +/- Olaparib

## Patient Population<sup>a</sup>

- 1L mCRPC
- Docetaxel allowed at mHSPC stage
- No prior abiraterone
- Other NHAs allowed if stopped  $\geq 12$  months prior to enrollment
- Ongoing ADT
- ECOG 0-1

## Stratification Factors

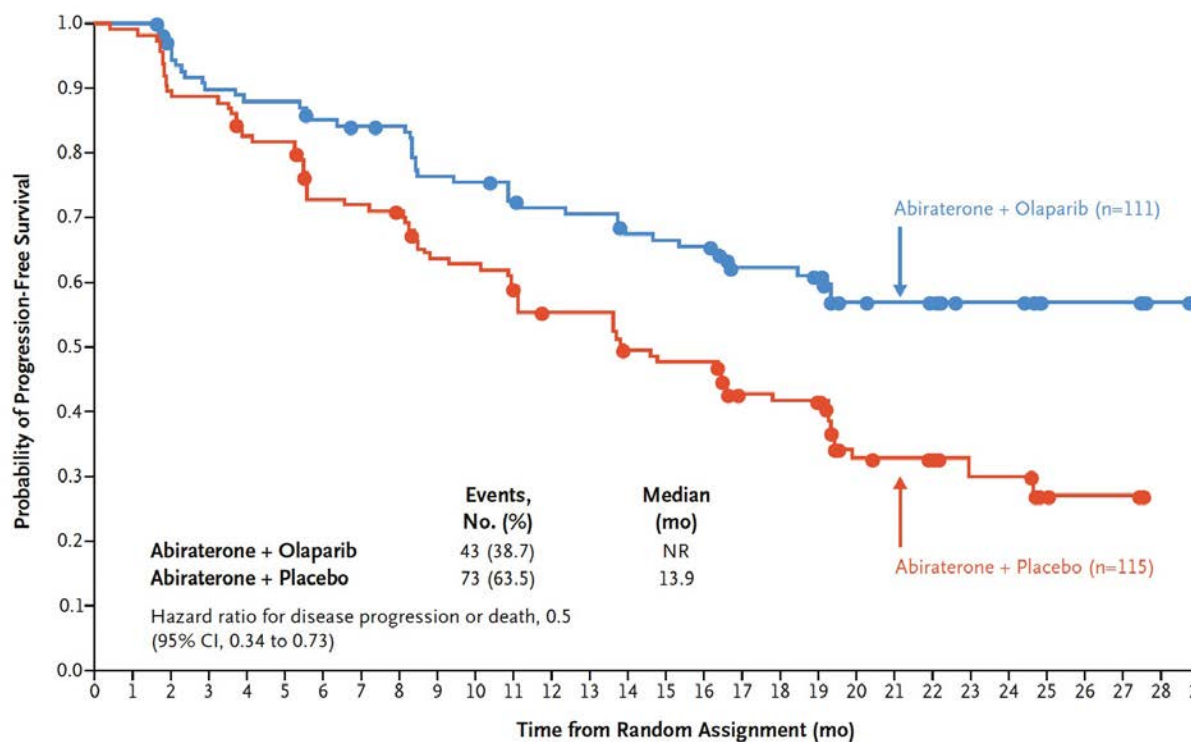
- Site of distant metastases: bone only vs visceral vs other
- Prior taxane at mHSPC: yes vs no



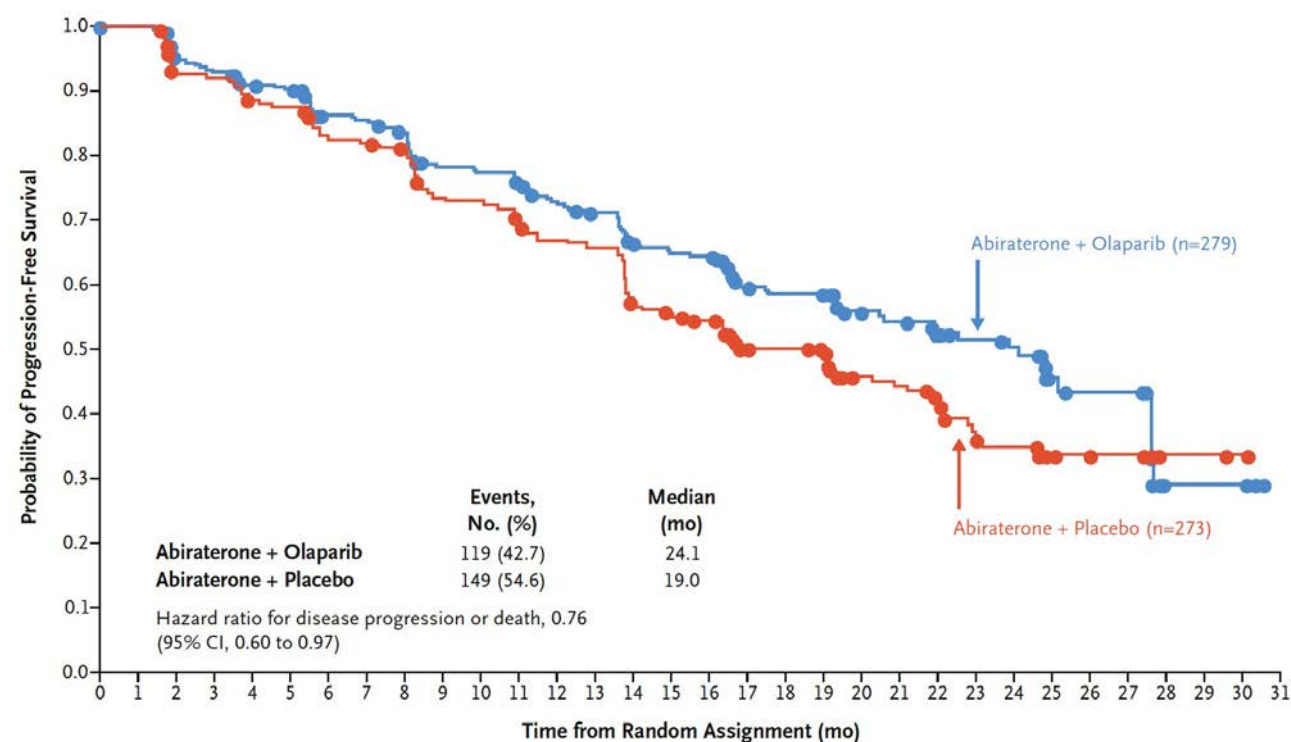
- **Primary endpoint:** rPFS
- **Secondary endpoint:** OS

# PROpel: Abiraterone +/- Olaparib Image-Based Progression-Free Survival

## HRRm Subgroup

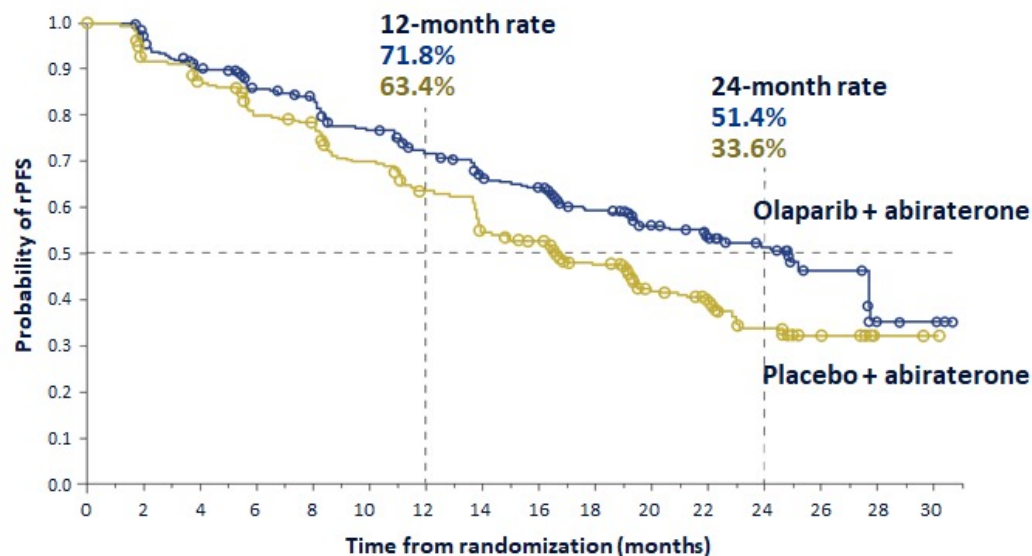


## Non-HRRm Subgroup





# PROpel: Radiographic progression-free survival



	Olaparib + abiraterone (n=399)	Placebo + abiraterone (n=397)
<b>rPFS by investigator assessment</b>		
Events, n (%)	168 (42.1)	226 (56.9)
Median rPFS, months	24.8	16.6
HR (95% CI)	0.66 (0.54–0.81); $P < 0.0001$	

<b>rPFS by blinded independent central review</b>		
HR (95% CI)	0.61 (0.49–0.74); $P < 0.0001$	

	Number of patients, n	Median rPFS, months		HR (95% CI)
All patients	796	24.8	16.6	0.66 (0.54–0.81)
Age at randomization				
<65	227	NR	16.4	0.51 (0.35–0.75)
≥65	569	22.0	16.7	0.78 (0.62–0.98)
ECOG performance status at baseline				
0	558	24.9	16.8	0.67 (0.52–0.85)
1	236	17.5	14.6	0.75 (0.53–1.06)
Site of distant metastases				
Bone only	434	27.6	22.2	0.73 (0.54–0.98)
Visceral	105	13.7	10.9	0.62 (0.39–0.99)
Other	257	20.5	13.7	0.62 (0.44–0.85)
Docetaxel treatment at mHSPC stage				
Yes	189	27.6	13.8	0.61 (0.40–0.92)
No	607	24.8	16.8	0.71 (0.56–0.89)
Baseline PSA				
Below median baseline PSA	396	25.2	22.0	0.75 (0.55–1.02)
Above or equal to median baseline PSA	397	18.5	13.8	0.63 (0.48–0.82)
HRRm status				
HRRm	226	NR	13.9	0.50 (0.34–0.73)
Non-HRRm	552	24.1	19.0	0.76 (0.60–0.97)

0.1 ← → 1 10

Olaparib + abiraterone better Placebo + abiraterone better

Clarke NW et al. *NEJM Evidence* 2022.

Courtesy of Matthew R Smith, MD, PhD

# MAGNITUDE: Abiraterone +/- Niraparib

## Key Eligibility Criteria

- L1 mCRPC
  - ≤4 months prior abiraterone allowed for mCRPC
- ECOG PS 0 or 1
- BPI-SF worst pain score ≤3

## Stratification Factors

- Prior taxane-based chemo for mHSPC
- Prior ARi for nmCRPC
- Prior abiraterone for L1 mCRPC
- HRR BM+ cohort only
  - *BRCA1/2* vs other HRR gene alterations

## Prescreening for Biomarker Status

**HRR BM+  
Panel**  
*ATM*  
*BRCA1*  
*BRCA2*  
*BRIP1*  
*CDK12*  
*CHEK2*  
*FANCA*  
*HDAC2*  
*PALB2*

## Allocation to Cohort

**HRR BM+  
Planned n = 400**

R

1:1

Niraparib + abiraterone

Placebo + abiraterone

**HRR BM-  
Planned n = 600**

R

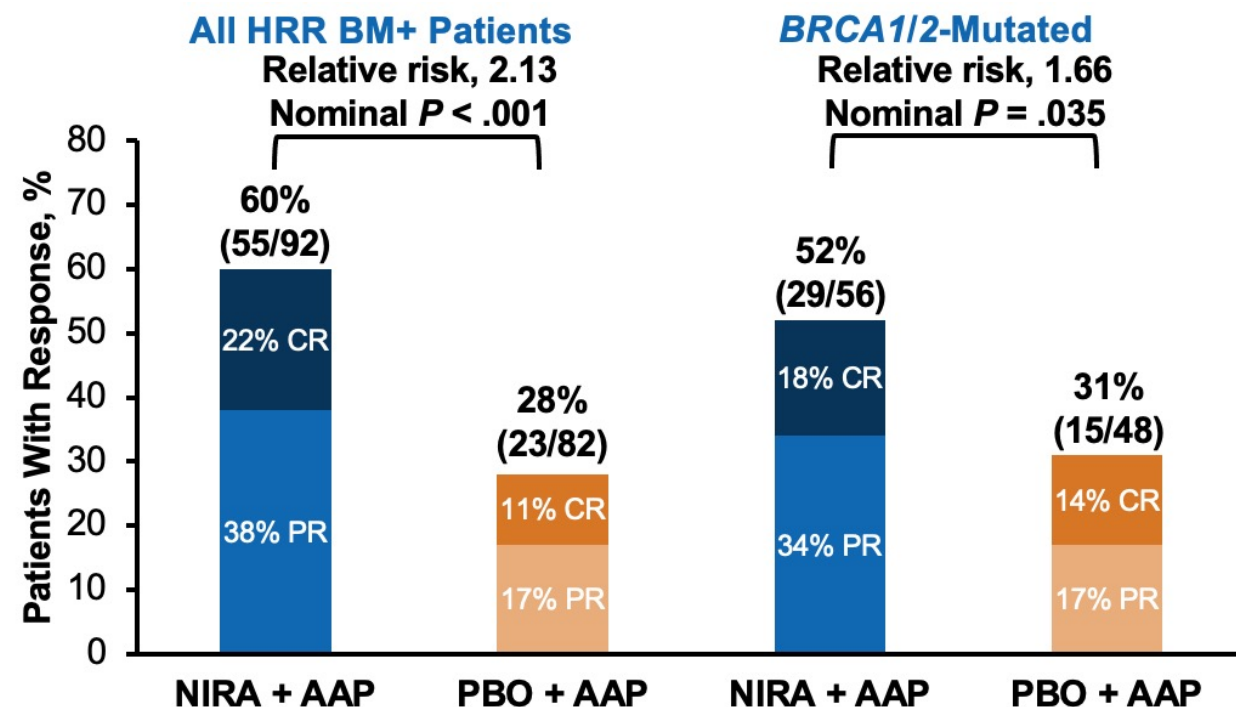
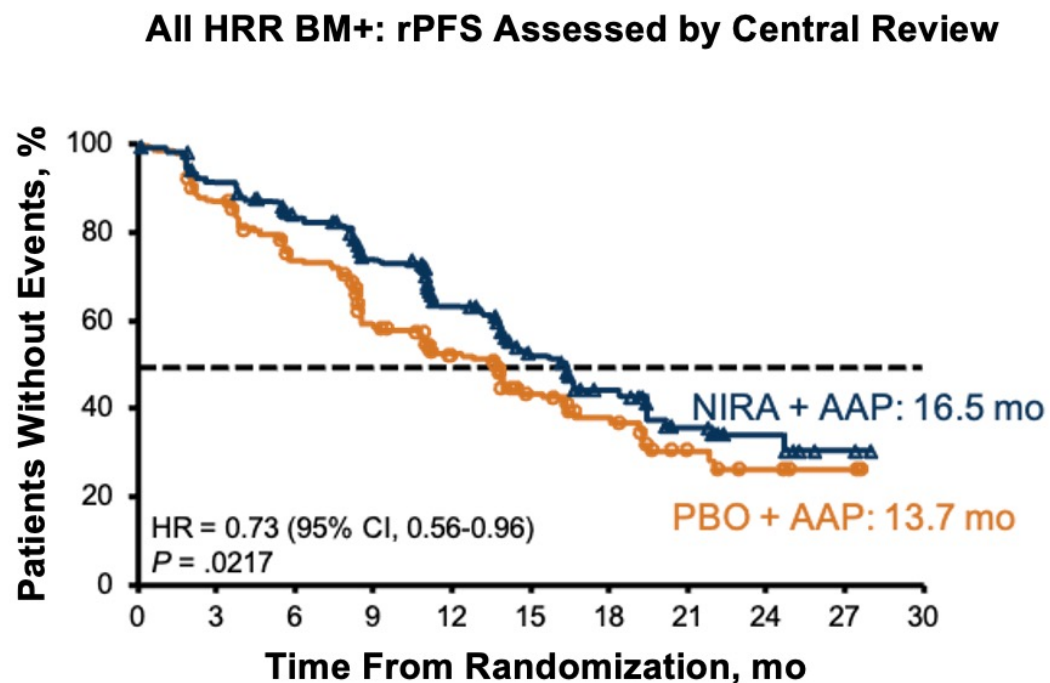
1:1

Niraparib + abiraterone

Placebo + abiraterone

- Primary endpoint
  - rPFS by central review
- Secondary endpoints
  - Time to cytotoxicity chemotherapy
  - Time to symptomatic progression
  - OS

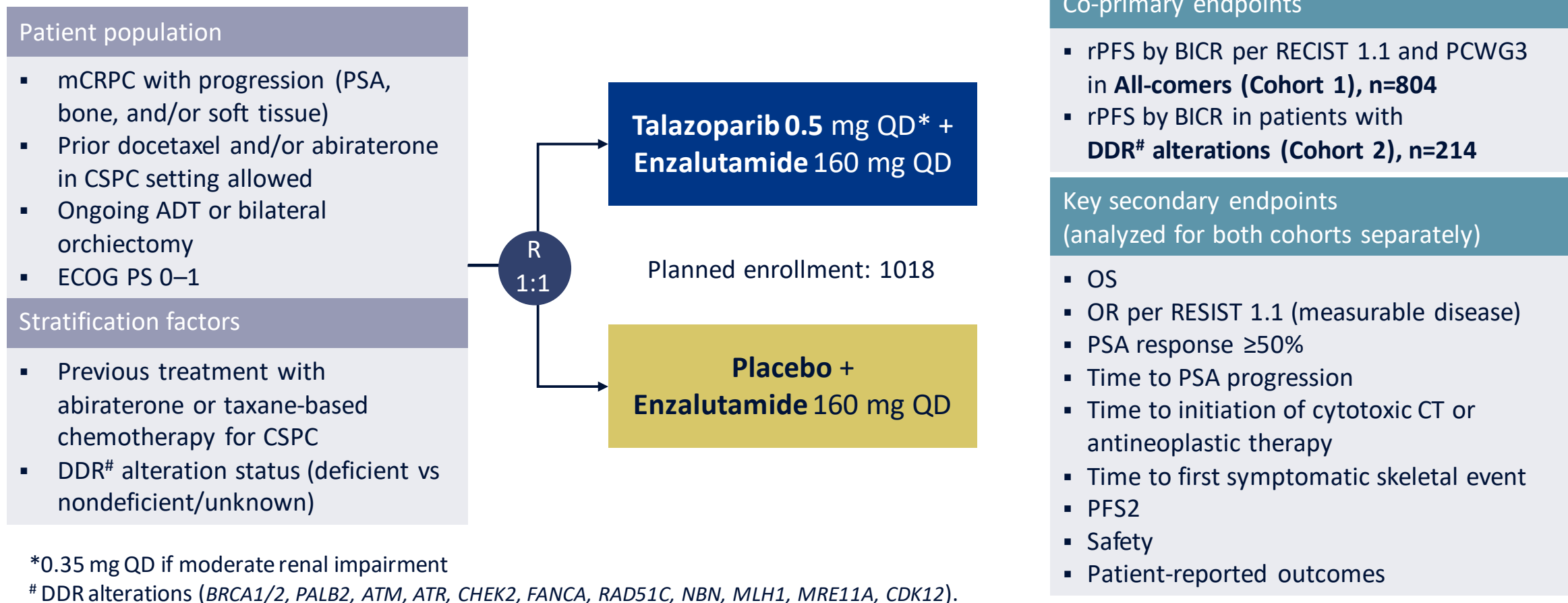
# MAGNITUDE: Abiraterone +/- Niraparib



- Two distinct cohorts: with or without alterations in HRR genes
- Prior ARSI, docetaxel in mHSPC allowed
- No benefit in patients in the HRR BM- cohort
- Significantly improved rPFS in the HRR BM+ cohort
- Niraparib + AAP nearly doubles ORR and provides deeper response in patients with measurable disease



# TALAPRO-2: Phase III Trial of Enza +/- Talazoparib



Agarwal N et al. *Future Oncol.* 2022;18:425-436; **NCT03395197**.

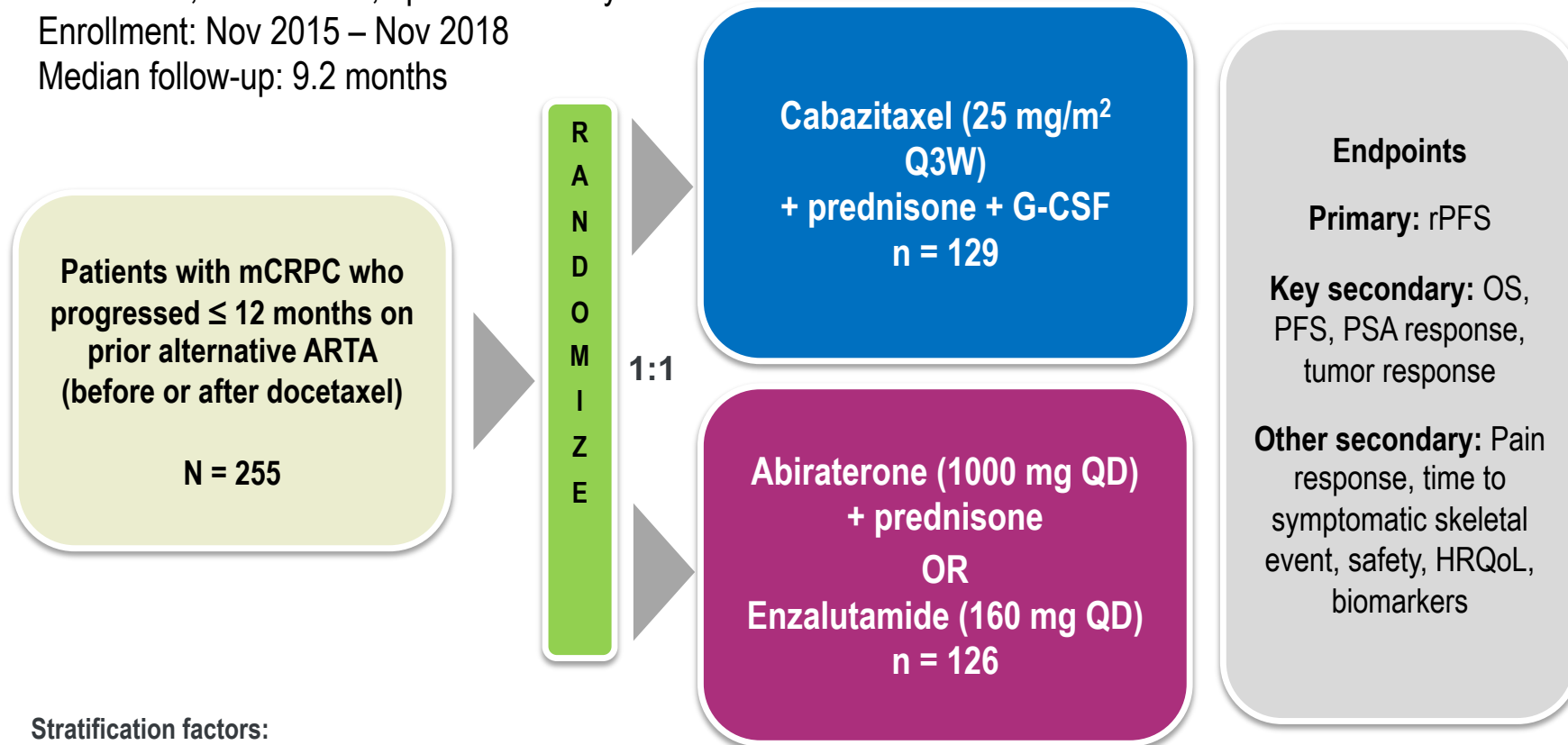
Courtesy of Emmanuel S Antonarakis, MD

# TALAPRO-2: Phase III Trial of Enza +/- Talazoparib

All-comers cohort	rPFS 21.9 mo → NR	HR 0.63 (0.51-0.78)	<i>P</i> <0.001
HRR <i>mutated</i>	rPFS 16.4 → 27.9 mo	HR 0.46 (0.30-0.70)	<i>P</i> <0.001
HRR <i>wild-type</i>	rPFS 16.6 → 25.8 mo	HR 0.66 (0.49-0.91)	<i>P</i> = 0.009

# CARD: STUDY DESIGN

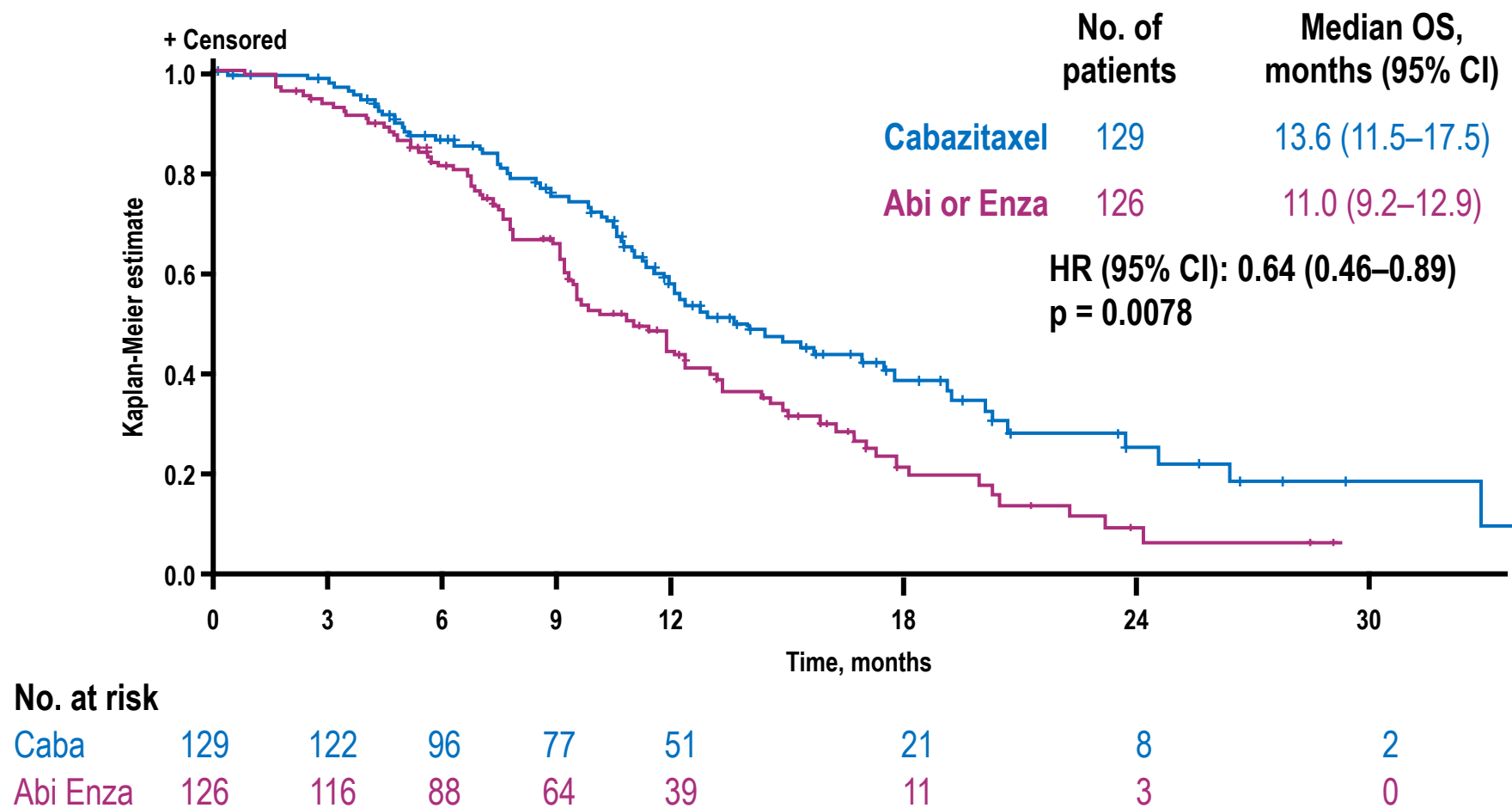
- Multicenter, randomized, open-label study
- Enrollment: Nov 2015 – Nov 2018
- Median follow-up: 9.2 months



## Stratification factors:

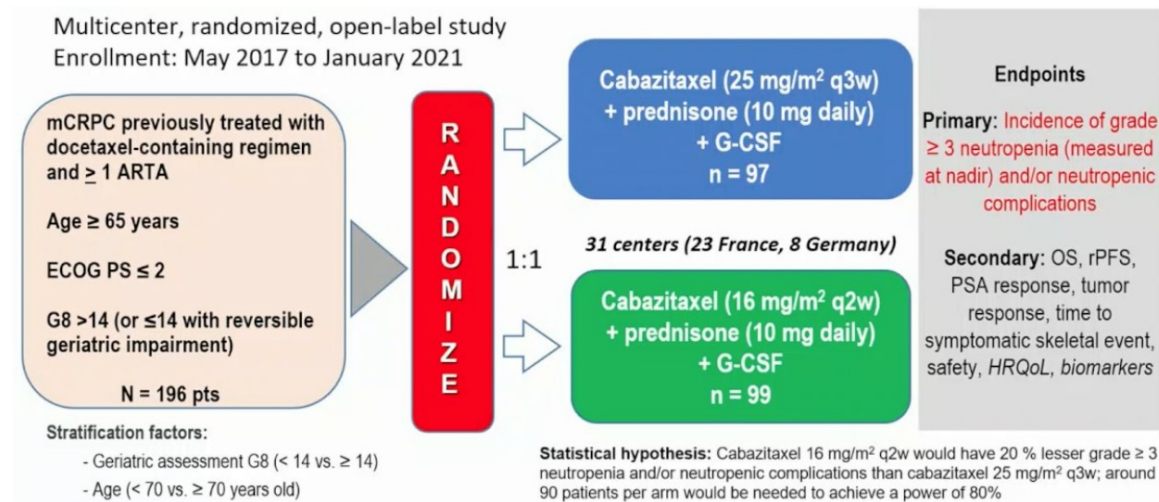
- ECOG PS (0/1 vs 2)
- Time to progression on prior alternative ARTA (0–6 vs > 6–12 months)
- Timing of ARTA (before vs after docetaxel)

# CARD: IMPROVED OVERALL SURVIVAL WITH CABAZITAXEL

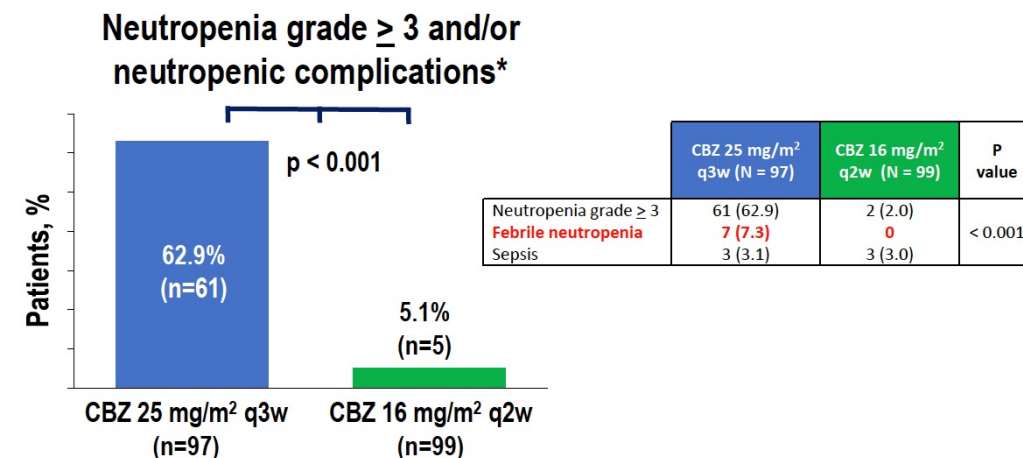


# Other Recently Reported Trials Investigating Cabazitaxel for mCRPC

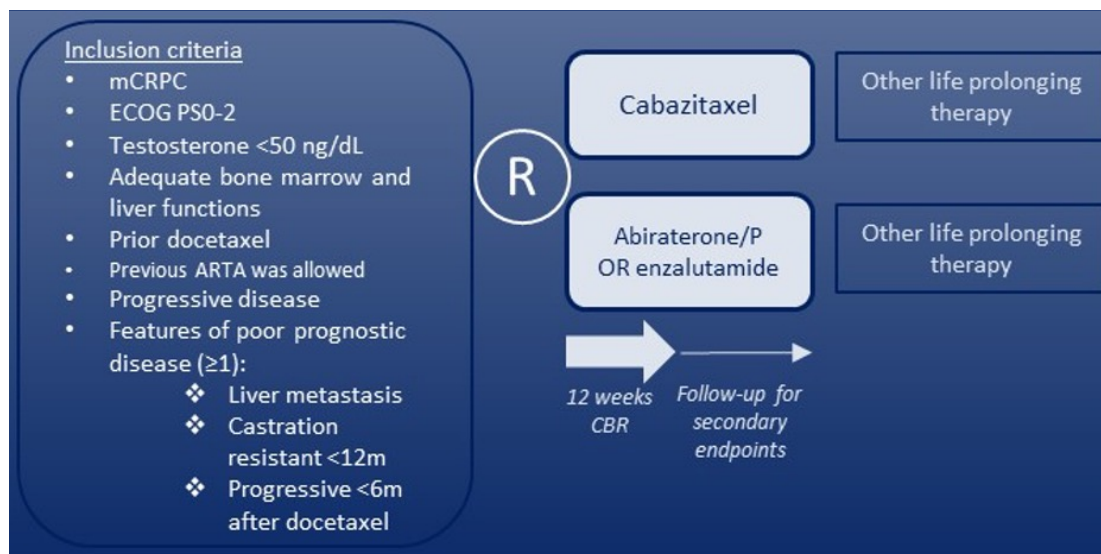
CABASTY<sup>1</sup>



## PRIMARY ENDPOINT



OSTRICH<sup>2</sup>



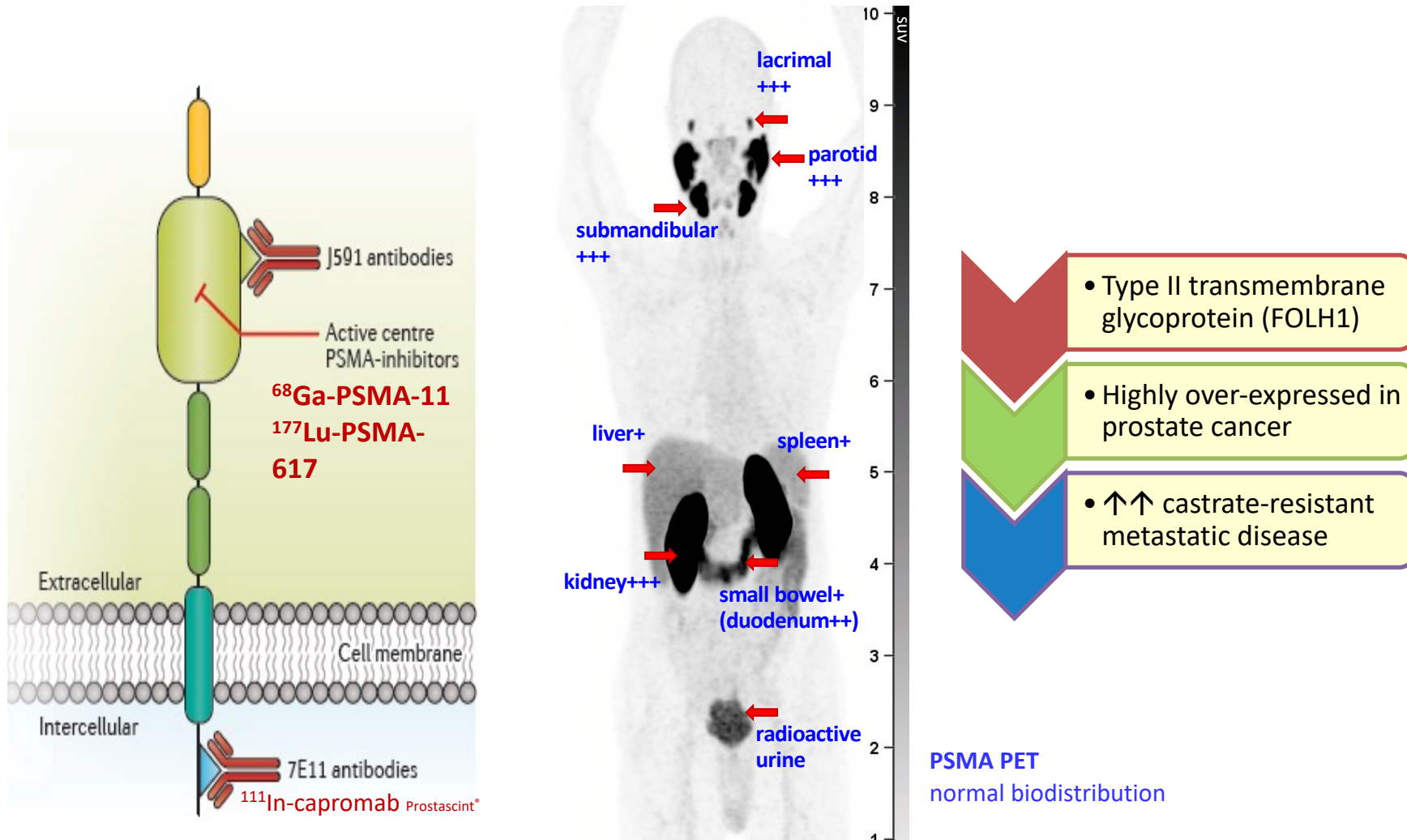
## Conclusions

- No significant difference in CBR between CBZ and ARTA treated patients at 12 weeks
- Visceral metastases were more frequent in CBZ patients
- Radiological response and stable disease at 12 weeks was significantly higher in patients treated with CBZ than with ARTA
- Time to clinical progression was significantly prolonged in patients treated with ARTA
- Overall survival and rPFS was similar in both groups

<sup>1</sup> Oudard S et al. ESMO 2022;Abstract 1363MO; <sup>2</sup> van der Zande K et al. ASCO 2021;Abstract 5059.

## Prostate specific membrane antigen (PSMA)

Image from [Maurer T et al. Nat Rev Urol, 2016 Apr;13\(4\):226-35](#)

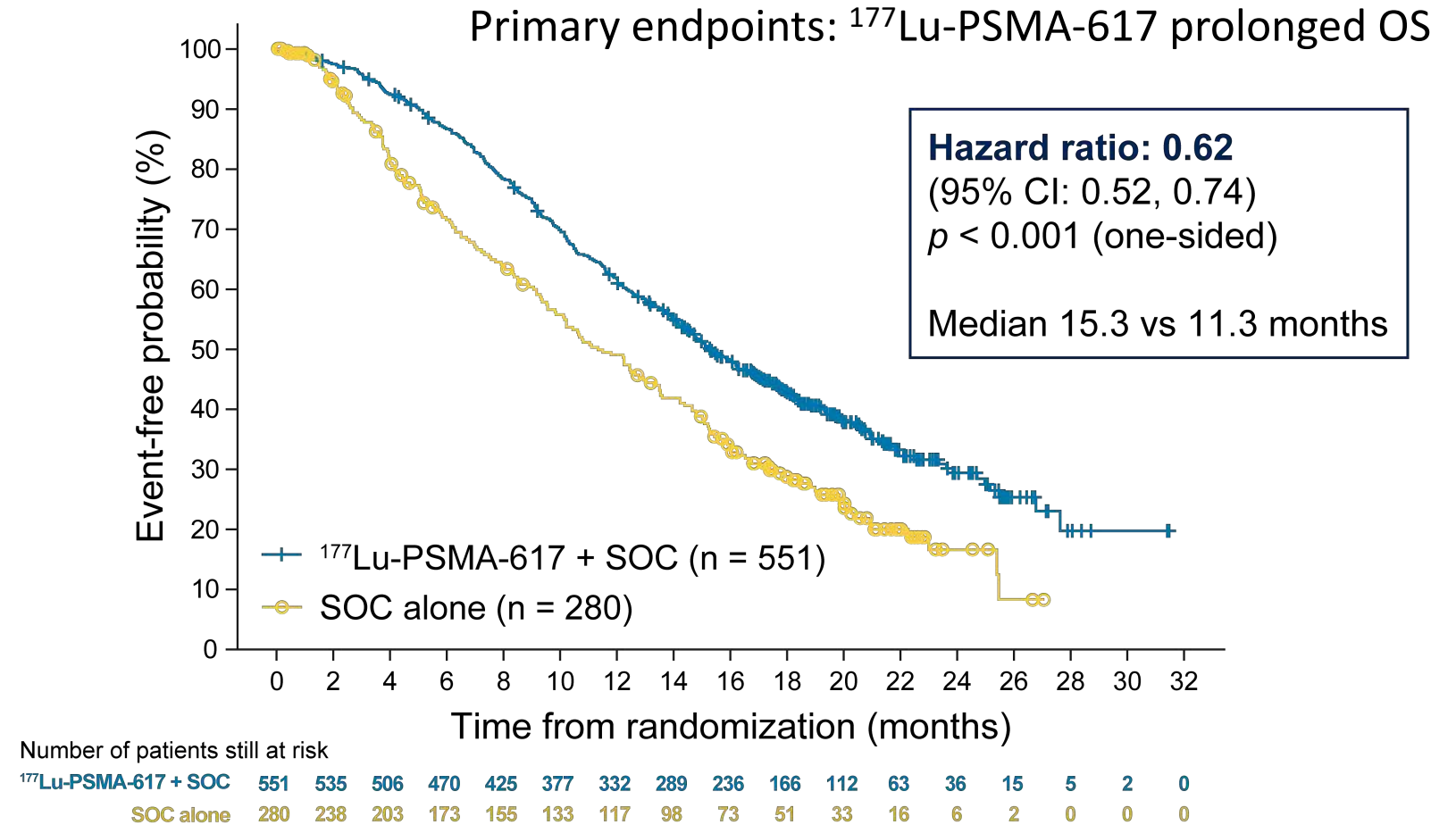




# VISION: Open-label study of protocol-permitted standard of care $\pm$ $^{177}\text{Lu}$ -PSMA-617 in adults with PSMA-positive mCRPC

- Primary analysis

- All randomized patients
- (N = 831)



## Planned/ongoing phase 3 trials in earlier settings

	PSMAAddition	PSMAfore	SPLASH	ProstAct
<b>Experimental agent</b>	177Lu-PSMA-617	177Lu-PSMA-617	177Lu-PNT2002	177Lu-TLX591
<b>Setting</b>	mCSPC	mCRPC prechemo	mCRPC prechemo	mCRPC post-docetaxel
<b>Primary endpoint</b>	rPFS OS	rPFS OS	rPFS	rPFS
<b>Number of pts</b>	1126	495	415	387



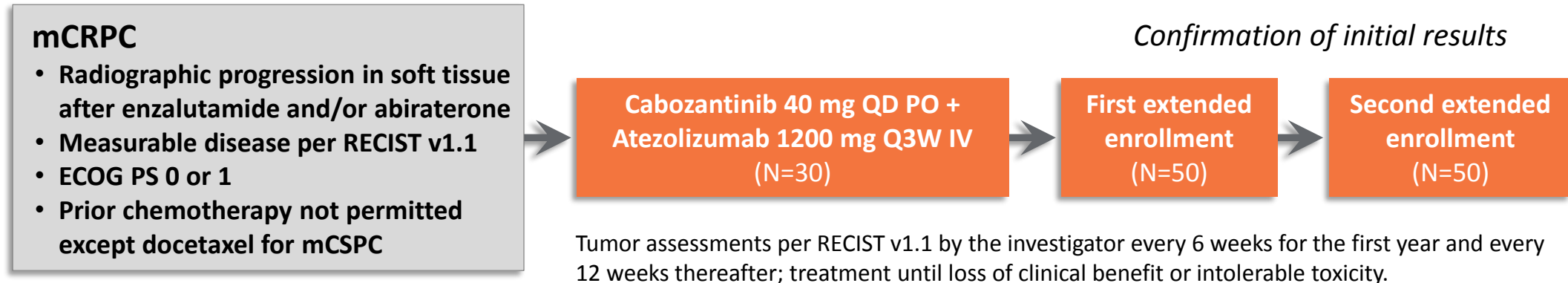
# Phase III PSMAfore Trial Meets Primary Endpoint with <sup>177</sup>Lu-PSMA-617 for PSMA-Positive mCRPC

Press Release: December 5, 2022

“Today, [it was announced that] the pivotal Phase III PSMAfore study with <sup>177</sup>Lu-PSMA-617, a prostate-specific membrane antigen (PSMA)-targeted radioligand therapy, met its primary endpoint. <sup>177</sup>Lu-PSMA-617 demonstrated a statistically significant and clinically meaningful improvement in radiographic progression-free survival (rPFS) in patients with PSMA-positive metastatic castration-resistant prostate cancer (mCRPC) after treatment with androgen-receptor pathway inhibitor (ARPI) therapy, compared to a change in ARPI. No unexpected safety findings were observed in PSMAfore; data are consistent with the already-well established safety profile of <sup>177</sup>Lu-PSMA-617.

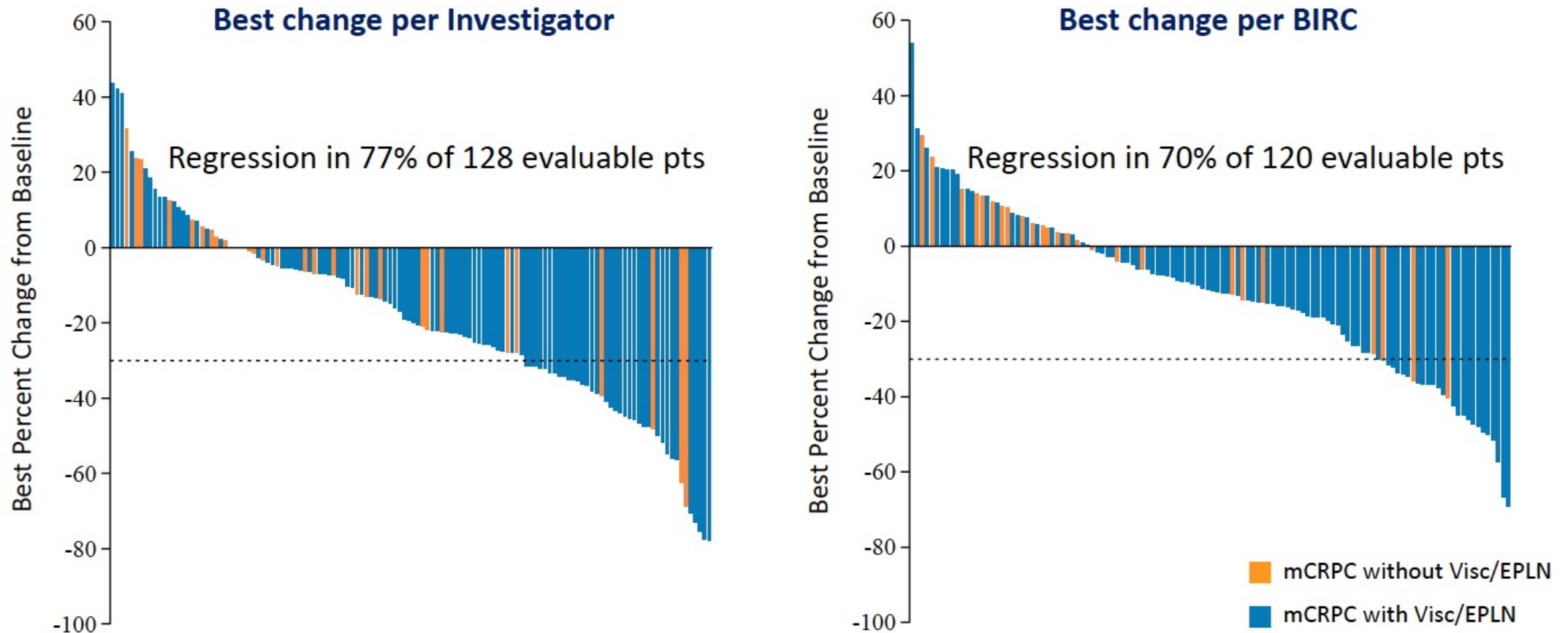
This is the second positive read-out for <sup>177</sup>Lu-PSMA-617 in a Phase III trial following the VISION study, where patients with PSMA-positive mCRPC who received <sup>177</sup>Lu-PSMA-617 plus standard of care after being treated with ARPI and taxane-based chemotherapy had a statistically significant reduction in risk of death. The PSMAfore results continue to support the important role of <sup>177</sup>Lu-PSMA-617 in treating patients with prostate cancer. The Phase III data will be presented at an upcoming medical meeting and discussed with the US Food and Drug Administration (FDA) in 2023 for regulatory approval.”

# COSMIC-021: Phase 1b Study Evaluating Cabozantinib + Atezolizumab for mHRPC – *HRPC Cohort 6 Expansion Design*



- Primary endpoint: investigator-assessed ORR per RECIST v1.1
- Secondary endpoint: safety including adverse events (AEs) and AEs of special interest (AESIs)
- Exploratory endpoints: PFS, OS, and biomarkers analyses
- Visceral metastases and/or extrapelvic lymphadenopathy (Visc/EPLN) was a key subgroup
- ORR and PFS were also analysed by blinded independent review committee (BIRC)
- Data as of Feb 19, 2021; 132 patients enrolled with a median follow-up of 15.2 mo (range, 5.7–33.9)

# COSMIC-021 Cohort 6: 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.