# 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

## **Prostate Cancer**

Wednesday, March 6, 2024 5:00 PM - 6:00 PM ET

**Faculty** 

Andrew J Armstrong, MD, ScM Maha Hussain, MD, FACP, FASCO

**Moderator Neil Love, MD** 



#### **Faculty**



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



MODERATOR
Neil Love, MD
Research To Practice
Miami, Florida



Maha Hussain, MD, FACP, FASCO
Genevieve Teuton Professor of Medicine
Division of Hematology/Oncology
Deputy Director
Robert H Lurie Comprehensive Cancer Center
Northwestern University Feinberg School of Medicine
Chicago, Illinois

#### **Commercial Support**

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



#### 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, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI Biopharma, a Sobi company, 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, Legend Biotech, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Mural Oncology 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, R-Pharm US, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Stemline 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.

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## **Dr Armstrong — Disclosures**

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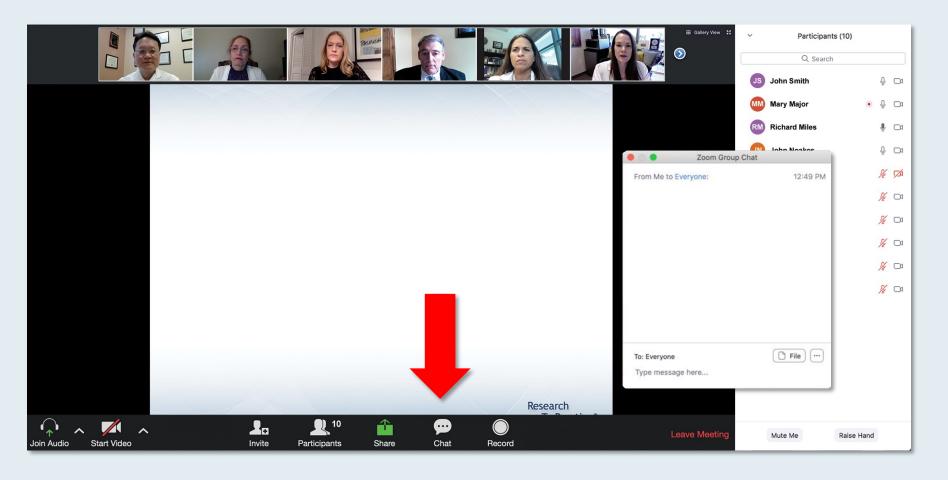


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Clinical Trials Funding	Arvinas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals
Honoraria	AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals
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#### We Encourage Clinicians in Practice to Submit Questions



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



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







## ONCOLOGY TODAY

WITH DR NEIL LOVE

**Exploring the Current and Future Management of High-Risk, Hormone-Sensitive Nonmetastatic Prostate Cancer** 



DR NEAL SHORE
CAROLINA UROLOGIC RESEARCH CENTER



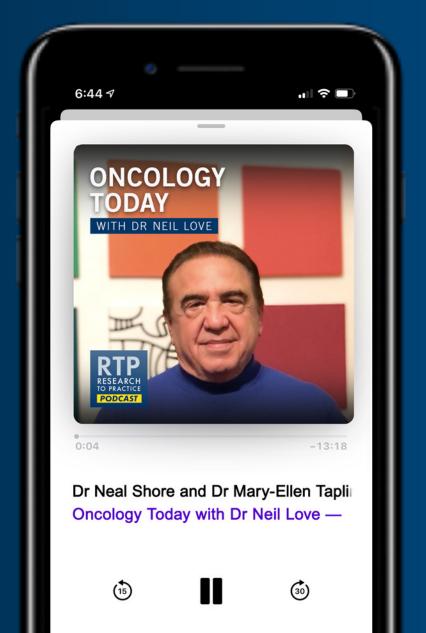
DR MARY-ELLEN TAPLIN

DANA-FARBER CANCER INSTITUTE









# Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Management of Ovarian Cancer

Part 1 of a 2-Part CME Symposium Series Held in Conjunction with the 2024 Society of Gynecologic Oncology (SGO) Annual Meeting on Women's Cancer®

Monday, March 18, 2024

6:30 AM - 8:00 AM PT (9:30 AM - 11:00 AM ET)

**Faculty** 

Joyce F Liu, MD, MPH
Mansoor Raza Mirza, MD
David M O'Malley, MD

**Moderator Kathleen N Moore, MD, MS** 



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Nicoletta Colombo, MD Matthew A Powell, MD Brian M Slomovitz, MD

Moderator
Shannon N Westin, MD, MPH, FASCO, FACOG



### JOIN US IN MARCH FOR THE RETURN OF

# The Annual National General Medical Oncology Summit

A Multitumor CME/MOC-, ACPE- and NCPD-Accredited Educational Conference Developed in Partnership with Florida Cancer Specialists & Research Institute

MARCH 22-24, 2024

JW Marriott Miami Turnberry

To Learn More or to Register, Visit www.ResearchToPractice.com/Meetings/GMO2024

# **Meet The Professor**Optimizing the Management of Myelofibrosis

Wednesday, April 3, 2024 5:00 PM - 6:00 PM ET

> Faculty Ruben A Mesa, MD

> > **Moderator Neil Love, MD**



#### **Agenda**

#### **INTRODUCTION:** Carpool Karaoke – RTP Style

#### **MODULE 1: Hormonal Therapy**

- Intensification
  - Localized and locally recurrent disease
  - PSA-only recurrence, high risk PRESTO, EMBARK trials
- Metastatic disease role of docetaxel, choice of AR inhibitor
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#### **MODULE 2: Other Treatment Approaches**

- Lutetium Lu 177 vipivotide tetraxetan
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## Thank you for joining us!

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



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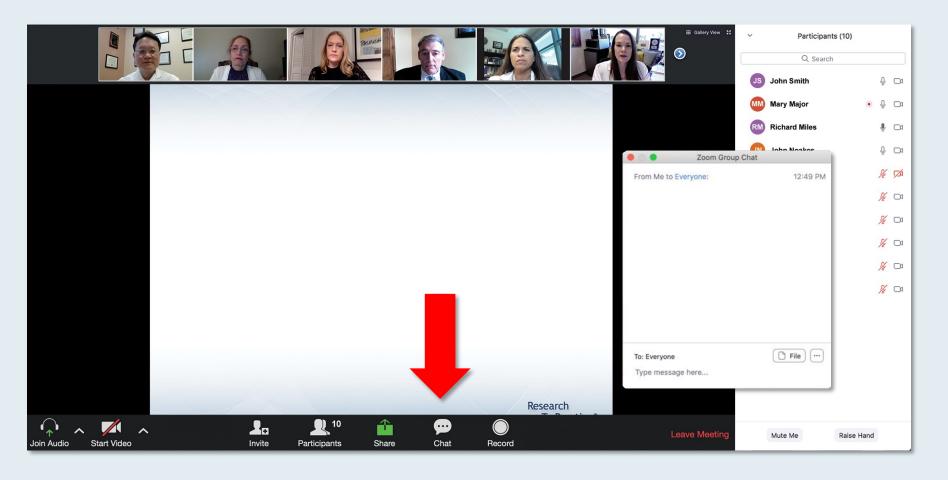


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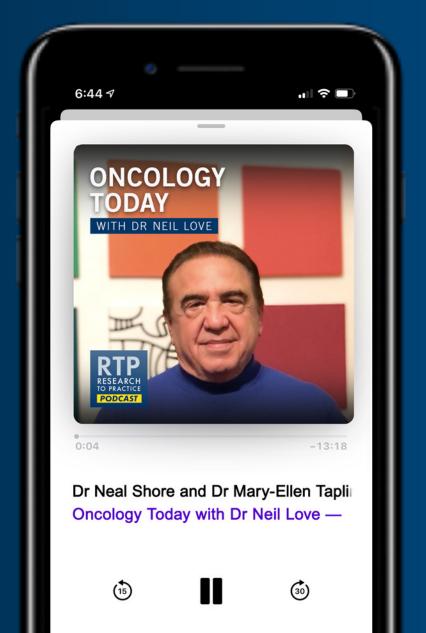
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Friday, March 22, 2024

6:30 PM - 7:00 PM

**Welcome Reception** 

7:00 PM - 9:00 PM

**Keynote Session: ER-Positive** 

**Metastatic Breast Cancer** 

Erika Hamilton, MD Kevin Kalinsky, MD, MS Joyce O'Shaughnessy, MD Hope S Rugo, MD Special Feature: Clinicians with Breast Cancer

## Saturday, March 23, 2024

#### 7:30 AM - 9:10 AM

#### **Hodgkin and Non-Hodgkin Lymphoma**

Ann S LaCasce, MD, MMSc Matthew Lunning, DO Kami Maddocks, MD Andrew D Zelenetz, MD, PhD

#### 9:30 AM - 10:20 AM

#### **Gynecologic Cancers**

Bradley J Monk, MD
David M O'Malley, MD

#### 10:20 AM - 11:10 AM

# **Localized Breast Cancer; SABCS 2023 Review**

Virginia Kaklamani, MD, DSc Kevin Kalinsky, MD, MS Joyce O'Shaughnessy, MD

#### 11:10 AM - 12:00 PM

#### Metastatic Breast Cancer, Triple-Negative Breast Cancer, HER2-Positive Breast Cancer; SABCS 2023 Review

Erika Hamilton, MD Virginia Kaklamani, MD, DSc Hope S Rugo, MD

## Saturday, March 23, 2024

12:30 PM - 1:20 PM

**Prostate Cancer** 

Emmanuel S Antonarakis, MD Rana R McKay, MD

1:20 PM - 2:10 PM

**Urothelial Bladder Cancer** 

Matthew D Galsky, MD Jonathan E Rosenberg, MD

2:10 PM - 3:00 PM

**Renal Cell Carcinoma** 

Eric Jonasch, MD Brian Rini, MD 3:20 PM - 4:10 PM

Targeted Therapy for Non-Small Cell Lung Cancer

Ibiayi Dagogo-Jack, MD Helena Yu, MD

4:10 PM - 5:00 PM

**Nontargeted Treatments for Lung Cancer** 

Edward B Garon, MD, MS Corey J Langer, MD

## **Sunday, March 24, 2024**

7:30 AM - 8:20 AM

**Multiple Myeloma** 

Natalie S Callander, MD Paul G Richardson, MD

8:20 AM - 9:10 AM

**Gastroesophageal Cancers** 

Yelena Y Janjigian, MD Samuel J Klempner, MD

9:30 AM - 10:20 AM

**Hepatobiliary Cancers** 

Ghassan Abou-Alfa, MD, MBA Richard S Finn, MD

10:20 AM - 11:10 AM

**Colorectal Cancer** 

Kristen K Ciombor, MD, MSCI John Strickler, MD

11:10 AM - 12:00 PM

**Pancreatic Cancer** 

Andrew H Ko, MD Eileen M O'Reilly, MD

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# Optimizing The Role of Hormonal Therapy and Novel Therapeutic Strategies for Patients with Prostate Cancer

#### Maha Hussain, MD, FACP, FASCO

Genevieve Teuton Professor of Medicine
Division of Hematology/Oncology
Deputy Director
Robert H Lurie Comprehensive Cancer Center
Northwestern University Feinberg School of Medicine
Chicago, Illinois

# Other Available and Emerging Therapeutic Approaches in Prostate Cancer

Andrew J Armstrong MD <u>ScM</u> FACP

Professor of Medicine, Surgery, Pharmacology and Cancer Biology

Duke Cancer Institute Center for Prostate and Urologic Cancers





#### **Key Data Sets**

#### Maha Hussain, MD, FACP, FASCO

- Shore ND et al. Impact of **concomitant cardiovascular therapies** on efficacy and **safety of relugolix** vs leuprolide: **Subgroup analysis from HERO study** in advanced prostate cancer. *Adv Ther* 2023;40(11):4919-27.
- Freedland SJ et al. Improved outcomes with **enzalutamide in biochemically recurrent prostate** cancer. *N Engl J Med* 2023;389(16):1453-65.
- Aggarwal R et al. Updated progression-free survival from PRESTO: A phase 3 randomized study of androgen annihilation for high-risk biochemically relapsed prostate cancer (AFT-19). AUA 2023; Abstract LBA02-11.
- Hussain M et al. Nadir prostate-specific antigen as an independent predictor of survival outcomes: A post hoc analysis of the PROSPER randomized clinical trial. *J Urol* 2023;209(3):532-9.
- Bögemann M et al. Efficacy and safety of **darolutamide** in patients with nonmetastatic castration-resistant prostate cancer **stratified by prostate-specific antigen doubling time**: **Planned subgroup analysis of the phase 3 ARAMIS trial**. *Eur Urol* 2023;83(3):212-21.



#### **Key Data Sets**

#### Maha Hussain, MD, FACP, FASCO (continued)

- Attard G et al. Abiraterone acetate plus prednisolone with or without enzalutamide for patients with metastatic prostate cancer starting androgen deprivation therapy: Final results from two randomised phase 3 trials of the STAMPEDE platform protocol. Lancet Oncol 2023;24(5):443-56.
- Chowdhury S et al. Deep, rapid, and durable prostate-specific antigen decline with **apalutamide plus androgen deprivation therapy** is associated with longer survival and improved clinical outcomes in **TITAN patients with metastatic castration-sensitive prostate cancer**. *Ann Oncol* 2023;34(5):477-85.
- Armstrong AJ et al. The efficacy of **enzalutamide plus androgen deprivation therapy** in oligometastatic hormone-sensitive prostate cancer: **A post hoc analysis of ARCHES**. *Eur Urol* 2023;84(2):229-41.
- Sweeney CJ et al. **Testosterone suppression plus enzalutamide** versus testosterone suppression plus standard antiandrogen therapy for **metastatic hormone-sensitive prostate cancer (ENZAMET)**: An international, open-label, randomised, phase 3 trial. *Lancet Oncol* 2023;24(4):323-34.
- Hussain M et al. **Darolutamide plus androgen-deprivation therapy and docetaxel** in metastatic hormone-sensitive prostate cancer by disease volume and risk subgroups in the phase III **ARASENS** trial. *J Clin Oncol* 2023;41(20):3595-607.



### Maha Hussain, MD, FACP, FASCO (continued)

- Bossi A et al. **Prostate irradiation** in men with de novo, low-volume, metastatic, castration-sensitive prostate cancer (mCSPC): **Results of PEACE-1**, a phase 3 randomized trial with a 2x2 design. ASCO 2023; Abstract LBA5000.
- Agarwal N et al. **CYCLONE 1**: **Abemaciclib** in men with **heavily pretreated metastatic castration-resistant prostate cancer (mCRPC)**. AACR 2023; Abstract CT159.
- Matsubara N et al. CYCLONE 3: A phase III, randomized, double-blind, placebo-controlled study of abemaciclib in combination with abiraterone plus prednisone in men with high-risk metastatic hormone-sensitive prostate cancer. ESMO Asia 2023; Abstract 284TiP.
- Shore N et al. A phase I study of **capivasertib in combination with abiraterone acetate** in patients with metastatic castration-resistant prostate cancer. *Clin Genitourin Cancer* 2023;21(2):278-85.



### Andrew J Armstrong, MD, ScM

- Saad F et al. **Olaparib plus abiraterone** versus placebo plus abiraterone in metastatic castration-resistant prostate cancer **(PROpel)**: **Final prespecified overall survival results** of a randomised, double-blind, phase 3 trial. *Lancet Oncol* 2023;24(10):1094-108.
- Shore ND et al. Efficacy of **olaparib (O) plus abiraterone (A)** versus placebo (P) plus A in patients (pts) with **metastatic castration-resistant prostate cancer (mCRPC)** with **single homologous recombination repair gene mutations (HRRm) in the PROpel trial**. Genitourinary Cancers Symposium 2024; Abstract 165.
- Chi KN et al. Niraparib (NIRA) with abiraterone acetate plus prednisone (AAP) as first-line (1L)
  therapy in patients (pts) with metastatic castration-resistant prostate cancer (mCRPC) and
  homologous recombination repair (HRR) gene alterations: Three-year update and final analysis (FA)
  of MAGNITUDE. ESMO 2023; Abstract LBA85.
- Agarwal N et al. Talazoparib plus enzalutamide in men with first-line metastatic castration-resistant prostate cancer (TALAPRO-2): A randomised, placebo-controlled, phase 3 trial. Lancet 2023;402(10398):291-303.
- Fizazi K et al. First-line talazoparib with enzalutamide in HRR-deficient metastatic castration-resistant prostate cancer: The phase 3 TALAPRO-2 trial. Nat Med 2024;30(1):257-64.

### **Andrew J Armstrong, MD, ScM (continued)**

- Fizazi K et al. **Rucaparib** or physician's choice in **metastatic prostate cancer**. *N Engl J Med* 2023;388(8):719-32.
- Hofman MS et al. Overall survival with [177Lu]Lu-PSMA-617 versus cabazitaxel in metastatic castration-resistant prostate cancer (TheraP): Secondary outcomes of a randomised, open-label, phase 2 trial. Lancet Oncol 2024;25(1):99-107.
- Fizazi K et al. Health-related quality of life and pain outcomes with [177Lu]Lu-PSMA-617 plus standard of care versus standard of care in patients with metastatic castration-resistant prostate cancer (VISION): A multicentre, open-label, randomised, phase 3 trial. Lancet Oncol 2023;24(6):597-610.
- Sartor O et al. Phase III trial of [177Lu]Lu-PSMA-617 in taxane-naive patients with metastatic castration-resistant prostate cancer (PSMAfore). ESMO 2023; Abstract LBA13.
- Sandhu S et al. LuPARP: **Phase 1 trial of <sup>177</sup>Lu-PSMA-617 and olaparib** in patients with metastatic castration resistant prostate cancer (mCRPC). ASCO 2023; Abstract 5005.
- Emmett L et al. **Enzalutamide and <sup>177</sup>Lu-PSMA-617** in poor-risk, metastatic, castration-resistant prostate cancer (mCRPC): A randomised, phase II trial: **ENZA-p (ANZUP 1901)**. ESMO 2023; Abstract LBA84.



### **Andrew J Armstrong, MD, ScM (continued)**

- Rahbar K et al. Safety and survival outcomes of <sup>177</sup>Lu-prostate-specific membrane antigen therapy in patients with metastatic castration-resistant prostate cancer with prior <sup>223</sup>Ra treatment: The RALU study. J Nucl Med 2023;64(4):574-8.
- Lantheus and POINT Biopharma announce positive **topline results** from **pivotal SPLASH trial** in metastatic castration-resistant prostate cancer [press release]. December 18, 2023. https://lantheusholdings.gcs-web.com/news-releases/news-release-details/lantheus-and-point-biopharma-announce-positive-topline-results.
- Agarwal N et al. **CONTACT-02**: **Phase 3 study of cabozantinib (C) plus atezolizumab (A)** vs second novel hormonal therapy (NHT) in patients (pts) with **metastatic castration-resistant prostate cancer (mCRPC)**. Genitourinary Cancers Symposium 2024; Abstract 18.



# **Agenda**

# **INTRODUCTION:** Carpool Karaoke – RTP Style

### **MODULE 1: Hormonal Therapy**

- Intensification
  - Localized and locally recurrent disease
  - PSA-only recurrence, high risk PRESTO, EMBARK trials
- Metastatic disease role of docetaxel, choice of AR inhibitor
- New approaches CDK4/6 and AKT inhibitors

## **MODULE 2: Other Treatment Approaches**

- Lutetium Lu 177 vipivotide tetraxetan
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- Neuroendocrine differentiation



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# March 6, 2020

4 years ago...















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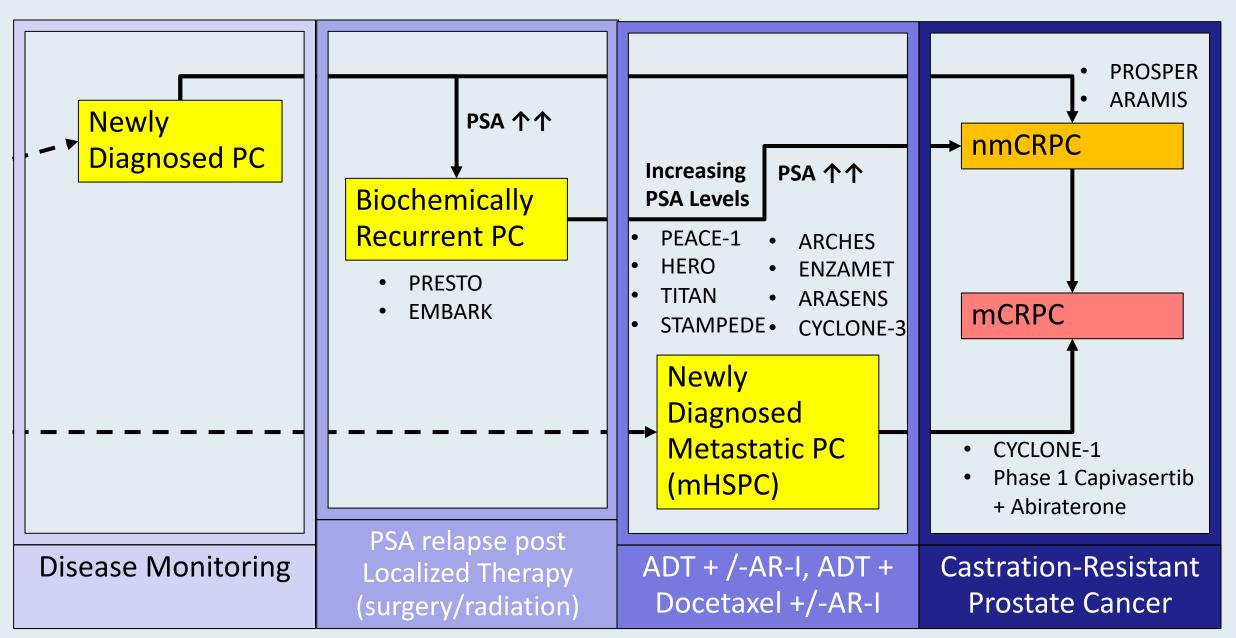
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# **Prostate Cancer Disease States**



# **Nonmetastatic Prostate Cancer**

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# **Key Clinical Questions/Issues Related to Systemic Management/Research in Prostate Cancer**

Androgen deprivation therapy intensification of localized disease treated with surgery/radiation therapy:

When, how, how long?

PSA relapse after radical prostatectomy: Radiation therapy alone or with endocrine therapy?



# **Key Clinical Questions/Issues Related to Systemic Management/Research in Prostate Cancer**

#### M0 disease

- PRESTO versus EMBARK
- Defining high-risk disease

**Enzalutamide monotherapy: Present or not?** 

- Gynecomastia
- Sexual function QoL

M0 progression on LHRH — choice of AR (androgen receptor) blocker, toxicity profile



# PRESTO: A Phase III Randomized Study of Androgen Annihilation for High-Risk Biochemically Relapsed Prostate Cancer

Randomize

Prior radical prostatectomy

Biochemical recurrence with PSA > 0.5 ng/mL

PSA-DT ≤ 9 months

No metastases on conventional imaging

Last dose of ADT > 9 months prior to study entry

Prior adjuvant/salvage radiation unless not a candidate for RT

Stratified by PSA doubling time (< 3 months vs. 3 – 9 months)

Arm A: LHRH Analog

Arm B: LHRH Analog + Apalutamide

Arm C: LHRH Analog + Apalutamide + Abiraterone Acetate + Prednisone

52 Weeks

Follow up for PSA Progressic

Treatment per Investigator Discretion

Long Term Follow Up

ADT = androgen deprivation therapy

# **PRESTO: Updated PFS**

	Apa + ADT vs ADT	Apa + AAP + ADT vs ADT	Apa + ADT vs Apa + AAP + ADT
PSA-PFS	24.9 vs 20.3 months <b>HR = 0.52</b> [95% CI, 0.35 to 0.77]	26.0 vs 20.0 months <b>HR = 0.48</b> [95% CI, 0.32 to 0.71]	24.9 vs 26.0 months <b>HR = 0.95</b> (95% CI: 0.62-1.45)
	ADT	Apa + ADT	Apa + AAP + ADT
Median Time to Testosterone Recovery (months)	3.9	3.8	4.7

AAP = abiraterone acetate with prednisone

• In patients with high-risk BCR following radical prostatectomy, intensified ADT with addition of apalutamide or apalutamide plus abiraterone prolonged biochemical PFS without new safety concerns identified. Follow up is ongoing to determine the impact on longer term endpoints including MFS and time to castration resistance.

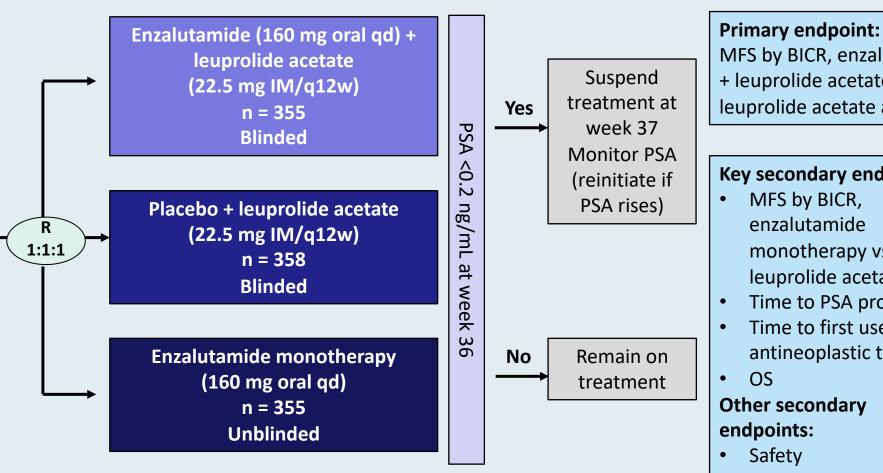
# EMBARK: A Phase III Randomized Study of Enzalutamide or Placebo with Leuprolide Acetate and Enzalutamide Monotherapy for High-Risk Biochemically Recurrent Prostate Cancer

#### **Patient population**

- Screening PSA ≥1 ng/mL after RP and at least 2 ng/mL above nadir for primary EBRT
- PSADT ≤9 mo
- No metastases on bone scan or CT/MRI per central read
- Testosterone ≥150 ng/dL
- Prior hormonal therapy ≥9 mo prior to randomization (neoadjuvant/adjuvant for ≤36 mo OR ≤6 mo for rising PSA)

#### Stratification factors

- Screening PSA (≤10 ng/mL vs > 10 ng/mL
- PSADT ( $\leq 3$  mo vs > 3 to  $\leq 9$ mo)
- Prior hormonal therapy (yes vs no)



MFS by BICR, enzalutamide + leuprolide acetate vs leuprolide acetate alone

#### **Key secondary endpoints:**

- enzalutamide monotherapy vs leuprolide acetate alone
- Time to PSA progression
- Time to first use of new antineoplastic therapy

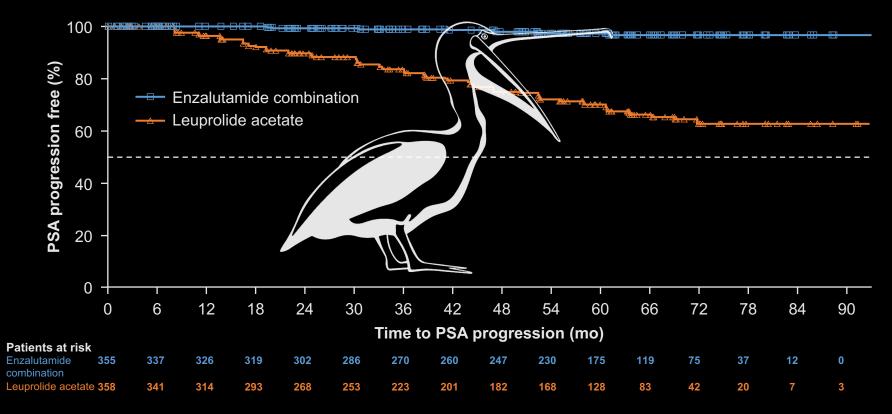
RP = radical prostatectomy; EBRT = external beam radiation therapy; PSADT = PSA doubling time; MFS = metastasis-free survival

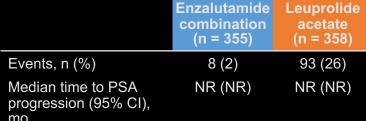




Key secondary endpoint — Time to PSA progression for enzalutamide combination vs. leuprolide acetate

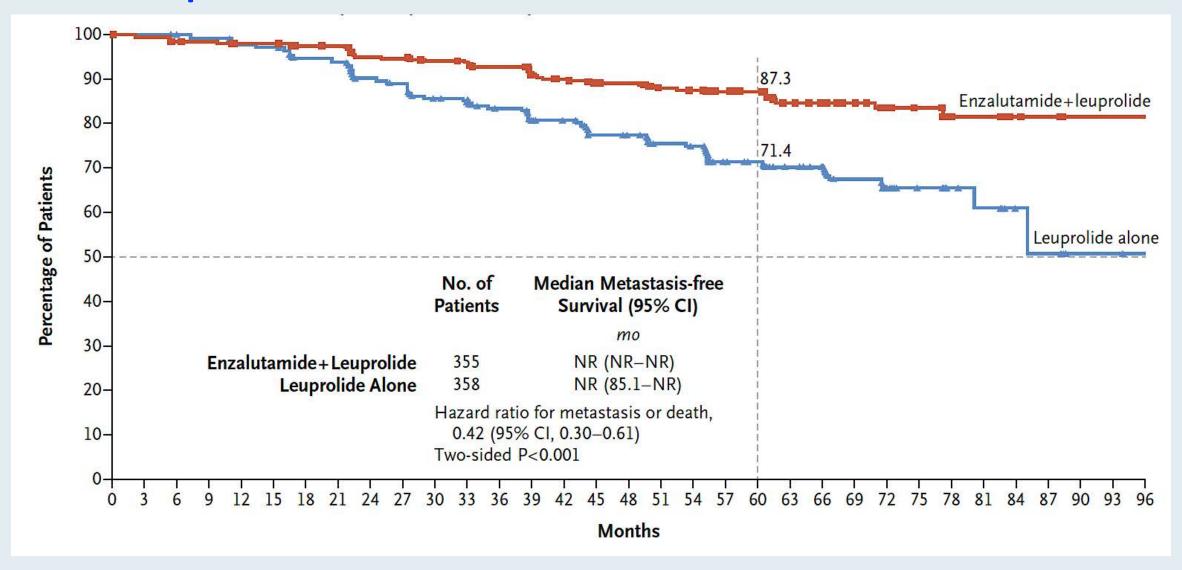




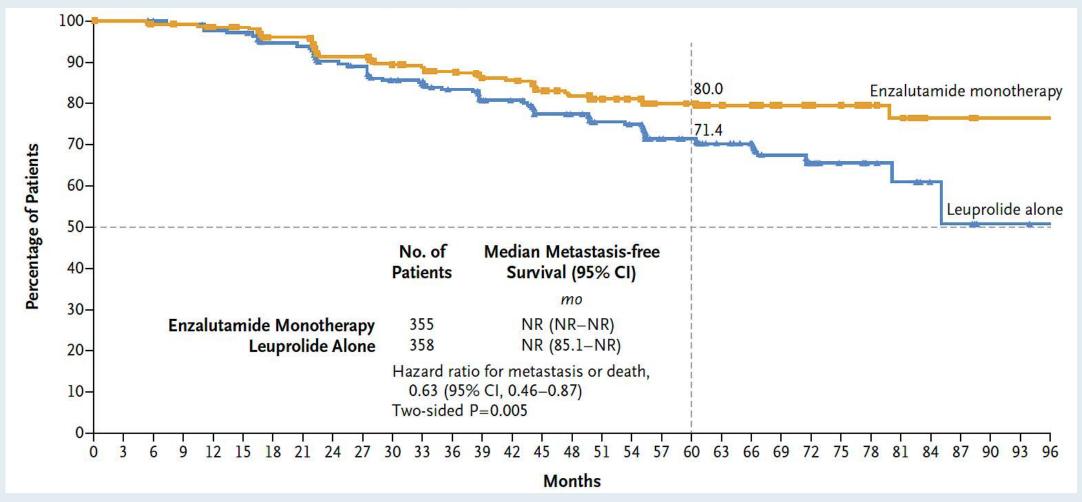


HR (95% CI): 0.07 (0.03–0.14); *P*<0.0001<sup>a</sup>

# EMBARK: Metastasis-Free Survival with Enzalutamide and Leuprolide versus Leuprolide Alone



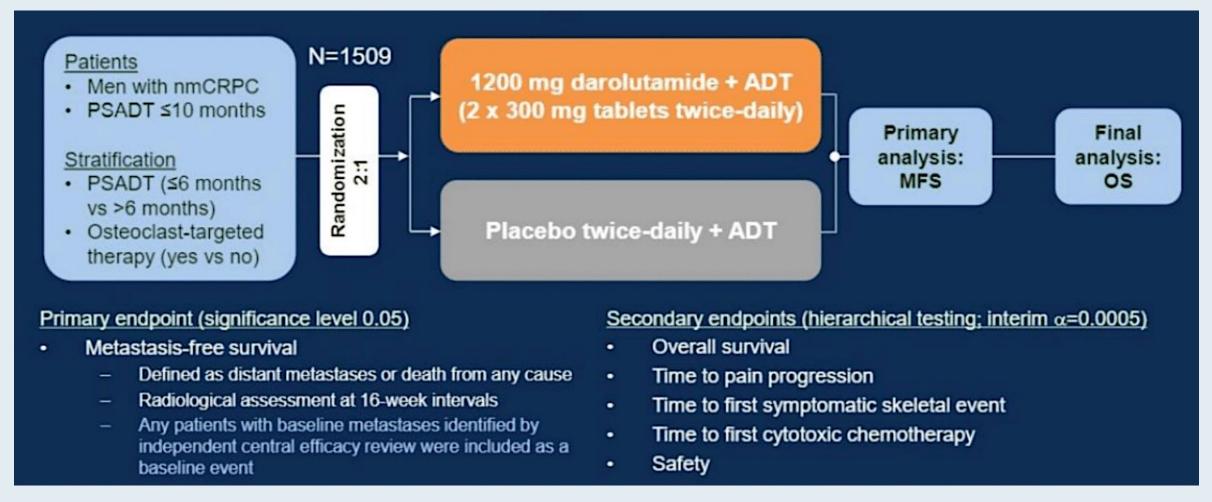
# **EMBARK: MFS with Enzalutamide Monotherapy versus Leuprolide Alone**



- Data on overall survival were immature at the time of publication.
- The safety profile of enzalutamide was consistent with that shown in previous clinical studies,
   with no apparent detrimental effect on quality of life.

Freedland SJ et al. *N Engl J Med* 2023;389(16):1453-65.

# ARAMIS: Darolutamide for Nonmetastatic Castration-Resistant Prostate Cancer (nmCRPC) – Study Design



# **Metastatic Hormone-Sensitive Prostate Cancer (mHSPC)**

- Bossi A et al. **Prostate irradiation** in men with de novo, low-volume, metastatic, castration-sensitive prostate cancer (mCSPC): **Results of PEACE-1**, a phase 3 randomized trial with a 2x2 design. ASCO 2023; Abstract LBA5000.
- Chowdhury S et al. Deep, rapid, and durable prostate-specific antigen decline with **apalutamide plus** androgen deprivation therapy is associated with longer survival and improved clinical outcomes in **TITAN patients with metastatic castration-sensitive prostate cancer**. *Ann Oncol* 2023;34(5):477-85.
- Attard G et al. Abiraterone acetate plus prednisolone with or without enzalutamide for patients with metastatic prostate cancer starting androgen deprivation therapy: Final results from two randomised phase 3 trials of the STAMPEDE platform protocol. Lancet Oncol 2023;24(5):443-56.
- Armstrong AJ et al. The efficacy of **enzalutamide plus androgen deprivation therapy** in oligometastatic hormone-sensitive prostate cancer: **A post hoc analysis of ARCHES**. *Eur Urol* 2023;84(2):229-41.
- Sweeney CJ et al. **Testosterone suppression plus enzalutamide** versus testosterone suppression plus standard antiandrogen therapy for **metastatic hormone-sensitive prostate cancer (ENZAMET)**: An international, open-label, randomised, phase 3 trial. *Lancet Oncol* 2023;24(4):323-34.
- Hussain M et al. Darolutamide plus androgen-deprivation therapy and docetaxel in metastatic hormone-sensitive prostate cancer by disease volume and risk subgroups in the phase III ARASENS trial. J Clin Oncol 2023;41(20):3595-607.

# **Key Clinical Questions/Issues Related to Systemic Management/Research in Prostate Cancer**

Metastatic hormone-sensitive prostate cancer — synchronous or recurrent

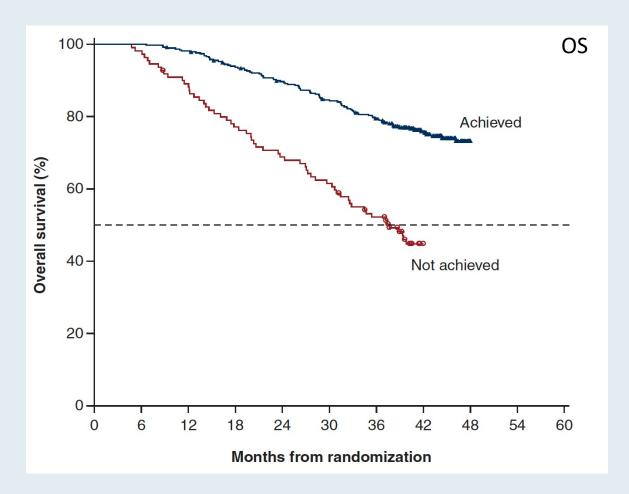
Role of radiation of the prostate (PEACE-1)

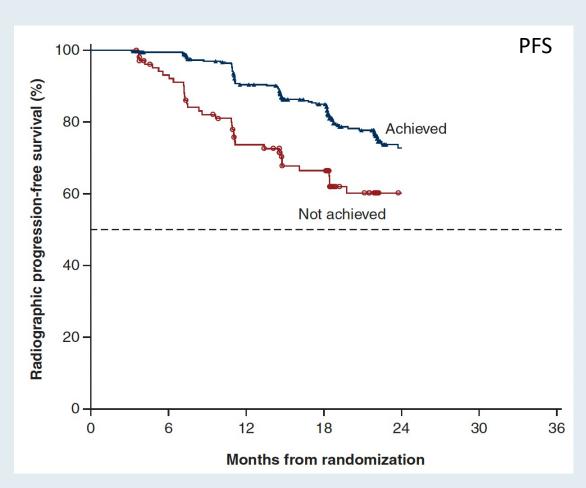
Use of docetaxel in combination with ADT/darolutamide (ARASENS)

Selection of AR pathway inhibitor – relative benefit versus toxicity



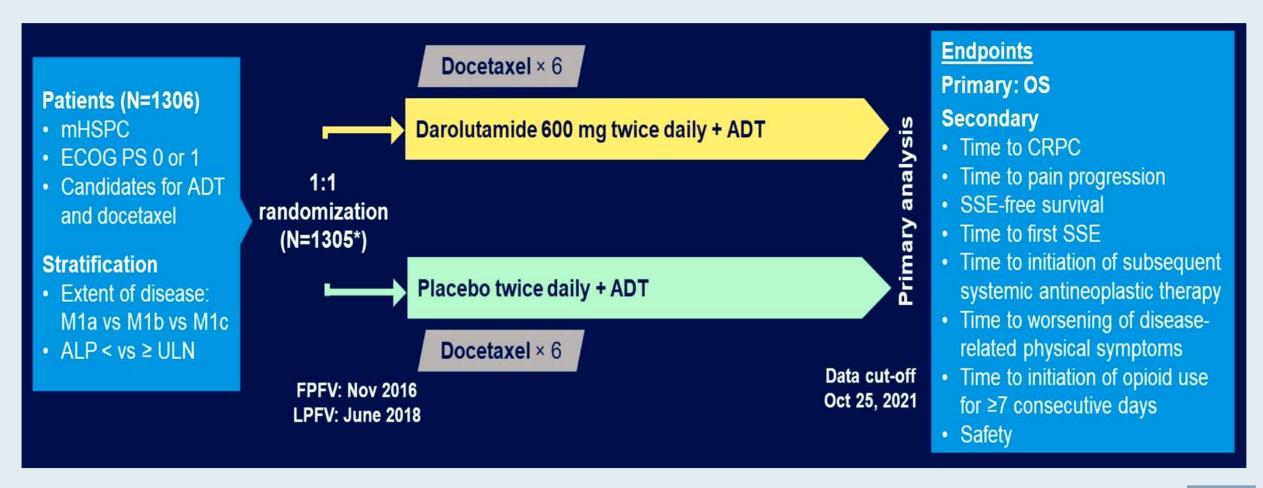
# TITAN: Outcomes by Achievement of Deep PSA Decline (≥90% PSA Decline or PSA ≤0.2 ng/ml) at 3 Months of Apalutamide Treatment





 Apalutamide plus ADT demonstrated a robust (rapid, deep, and durable) PSA decline that was associated with improved clinical outcomes, including long-term survival.

# ARASENS: A Randomized Phase III Trial of Darolutamide versus Placebo for Metastatic Hormone-Sensitive Prostate Cancer (mHSPC) – Study Design





# **Novel Management Approaches for Patients with Advanced PC**

- Agarwal N et al. **CYCLONE 1**: **Abemaciclib** in men with **heavily pretreated metastatic castration-resistant prostate cancer (mCRPC)**. AACR 2023; Abstract CT159.
- Matsubara N et al. CYCLONE 3: A phase III, randomized, double-blind, placebo-controlled study of abemaciclib in combination with abiraterone plus prednisone in men with high-risk metastatic hormone-sensitive prostate cancer. ESMO Asia 2023; Abstract 284TiP.
- Shore N et al. A phase I study of **capivasertib in combination with abiraterone acetate** in patients with metastatic castration-resistant prostate cancer. *Clin Genitourin Cancer* 2023;21(2):278-85.



# **Key Clinical Questions/Issues Related to Systemic Management/Research in Prostate Cancer**

New approaches to endocrine therapy

- CDK4/6 inhibitors abemaciclib and palbociclib
- AKT inhibitor capivasertib



# Rationale to Study Abemaciclib in Metastatic Prostate Cancer

1

- The Androgen Receptor (AR) signaling pathway plays a pivotal role in normal prostate gland development as well as prostate carcinogenesis (4).
- Preclinical and human models suggest a relationship between the cellular AR level in both primary and metastatic disease and disease progression to castration resistant PCa (CRPC) (5-7).
- The transition from clinically localized prostate cancer to castration resistance (CRPC) involves a complex interplay of molecules and is attributed to aberrant AR signaling (4).

2

- Abemaciclib is a potent and selective oral inhibitor of CDK4&6 that is approved for the treatment of early and advanced/metastatic HR+/HER2- breast cancer (1).
- As with estrogen receptor signaling pathway in breast cancer, evidence exists that the AR signaling pathway activates the CDK4/6 – cyclin D1 axis to sustain prostate cancer cell proliferation and survival (2,3).

3

- In both hormone sensitive and castration resistance prostate cancer cell models, Abemaciclib demonstrated in vitro activity, as single agent and in combination with AR blocker agents, limiting cellular proliferation.
- HYPOTHESIS: dual inhibition of the AR axis and cell cycle entry with the coadministration of abiraterone and Abemaciclib may inhibit the proliferation of prostate cancer cells and delay progression of anti-androgen resistant disease.

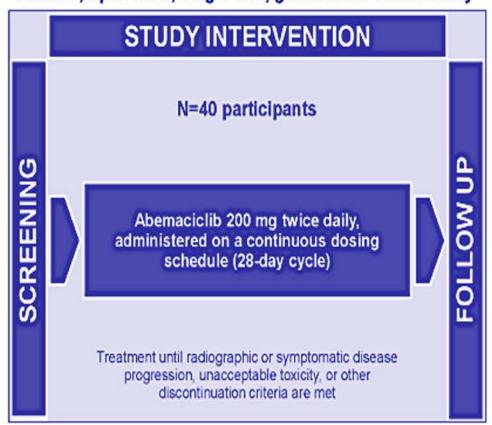
# **CYCLONE 1 Study Design**

### Key eligibility criteria Additional screening criteria will be assessed prior to trial enrollment

- mCRPC with at least 1 measurable lesion per RECIST v1.1
- Progressive disease at study entry in the setting of medical or surgical castration, defined as at least one of the following:
  - PSA progression (per PCWG3)
  - Radiographic progression (per RECIST v1.1 for soft tissue and/or PCWG3 for bone)
- Prior treatments:
  - ≥1 NHA (abiraterone acetate, apalutamide, darolutamide or enzalutamide, in any setting)
  - 2 taxane regimens<sup>b</sup> (docetaxel and cabazitaxel, ≥2 cycles each, in any setting)
- Amenable to metastatic biopsy or availability of adequate archival metastatic tissue
- No prior treatment with abemaciclib or any CDK4 and/or CDK6 inhibitors
- Participants with serious and/or uncontrolled preexisting medical condition(s) (e.g. interstitial lung disease/pneumonitis), known/suspected brain metastasis or untreated (or risk of) spinal cord compression are not eligible

## Study Design

Phase 2, open label, single-arm, global multi-center study



<sup>&</sup>lt;sup>b</sup> if a patient has received only 1 taxane regimen, he may eligible ONLY if the second taxane regimen is deemed unsuitable (e.g. intolerance or contraindication). This requires sponsor approval.

# **CYCLONE 1: Results**

Metric	No. patients	
ORR	3 (6.8%)	
Stable disease	17 (38.6%)	
Stable disease lasting ≥6 months	6 (13.6%)	
DCR	45.5%	
Median PFS	2.7 months (95% CI 1.9, 3.7)	
6-month rPFS	24.9% (95% CI 12.4, 39.5)	
Median OS	7.6 months (CI 5.6, NE)	

- No Grade 4 or 5 AEs
- Discontinuation due to AEs was 13.6%
- Most common AEs (≥50% of pts): Diarrhea (79.5%), decreased appetite (52.3%) and fatigue (50%)
- Most common Grade 3 AEs (≥5% of pts): neutropenia (22.7%), anemia (6.8%), and fatigue (6.8%)

• Abemaciclib demonstrated modest but objective single-agent clinical activity in patients with very heavily pretreated progressive mCRPC.



# CYCLONE 3: A Phase III, Randomized, Double-Blind, Placebo-Controlled Study of Abemaciclib in Combination with Abiraterone for High Risk mHSPC

#### **Inclusion:**

High-risk mHSPC defined as:
 ≥4 bone metastases by Tc99 bone scan

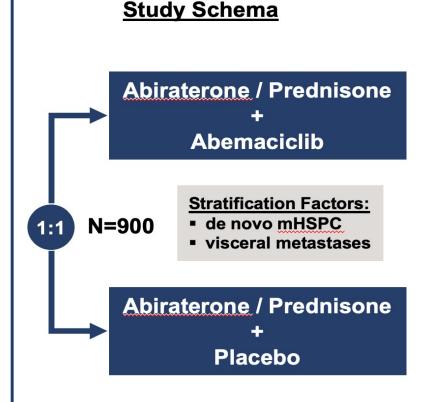
and/or

#### ≥1 visceral metastases by CT/MRI

- ≤ 3 months of ADT (orchiectomy or LHRH ± anti-androgen)
- ECOG 0-1

#### **Exclusion:**

- Prior CDK4 & 6i
- Prior systemic therapy for metastatic prostate cancer (except for ADT/antiandrogen)
- Clinically significant cardiovascular disease, moderate/severe hepatic impairment



#### **Endpoints**

#### **Primary Endpoint:**

 Investigator-assessed <u>rPFS</u> (per RECIST/adapted PCWG3 criteria)

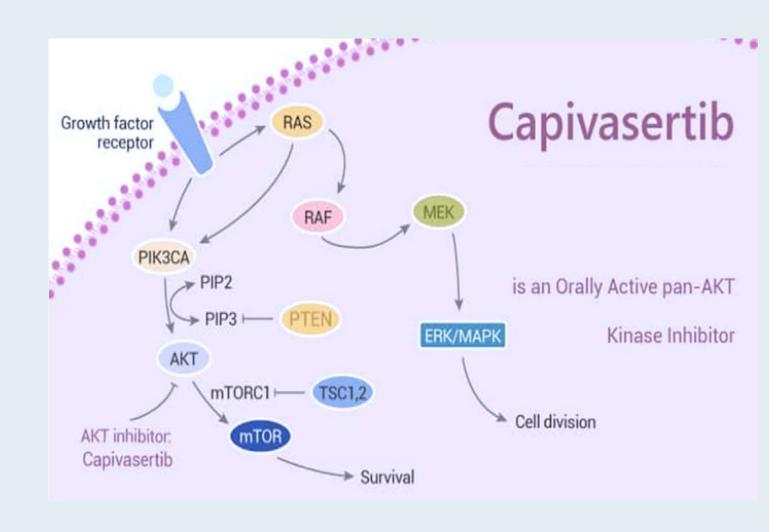
#### **Key Secondary Endpoints:**

- rPFS by blinded independent central review
- Castration-resistant prostate cancer-free survival
- Overall Survival
- Time to pain progression
- Safety
- Pharmacokinetics

"Phase 3 CYCLONE-2 results [demonstrated that] abemaciclib added to abiraterone did not meet the primary endpoint of improved radiographic progression-free survival in men with metastatic castration-resistant prostate cancer (mCRPC); the overall safety and tolerability profile was consistent with the known profiles of the medicines."

# Rationale to Study Capivasertib (Pan-AKT Inhibitor) in mHRPC

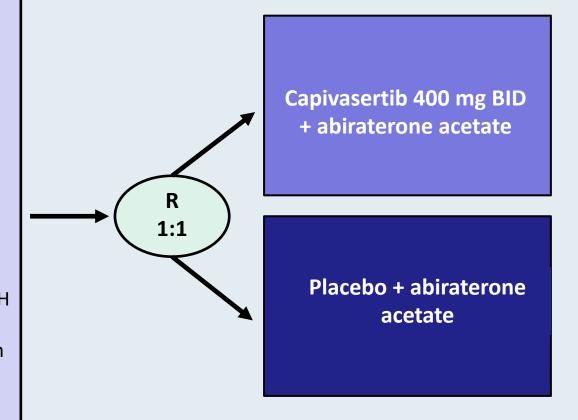
- Patients with metastatic prostate cancer can develop PI3K/AKT/PTEN pathway-associated resistance to andro-gen receptor-targeted therapy.
- In an open-label phase Ib study, 27
   patients received abiraterone acetate +
   capivasertib, a potent, selective pan AKT inhibitor.
- The combination demonstrated acceptable tolerability with no doselimiting toxicity and pharmacokinetics consistent with monotherapy dosing. These data support further clinical evaluation in this patient population.



# Phase I Trial of Capivasertib with Abiraterone Acetate for Patients with mCRPC: Study Design

#### **Key inclusion criteria**

- •Asymptomatic or mildly symptomatic histologically confirmed de novo hormone-sensitive prostate adenocarcinoma
- •PTEN IHC result indicating PTEN deficiency
- •Metastatic disease by clear evidence of ≥1 bone lesion and/or ≥1 soft tissue lesion
- •Eligibility for abiraterone and steroid therapy
- •Ongoing ADT with GnRH analog, or LHRH agonists or antagonist, or bilateral orchiectomy (regardless of method) from 0 days to a maximum of 93 days prior to randomization
- •ECOG performance status 0 to 1



#### **Primary Endpoint**

Radiographic PFS

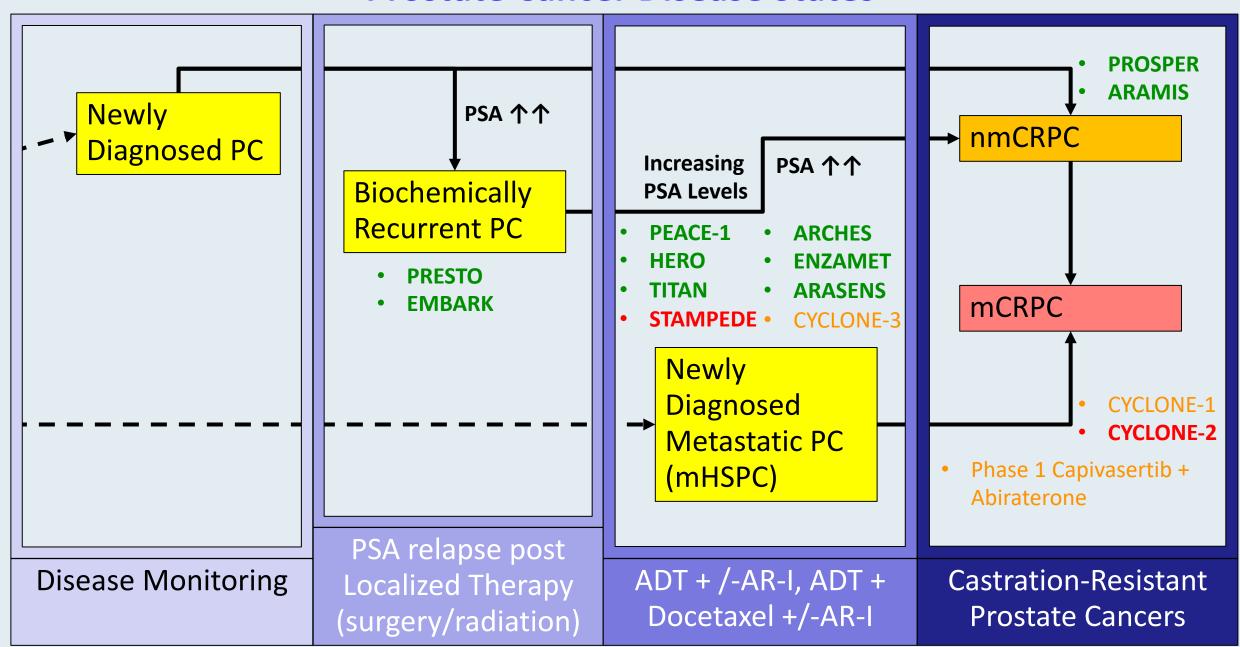
#### **Secondary Endpoints**

- OS
- TFST
- SSE-FS
- TTPP
- Time to PSA progression
- TTCR
- PFS2
- QoL Outcomes
- AEs

- Nine participants (33%) showed a 20% or greater decrease in PSA during study treatment.
- The combination of capivasertib/abiraterone had an acceptable tolerability profile consistent with the known profile of each agent.
- These data support further evaluation of capivasertib and abiraterone acetate in patients with advanced prostate cancer.

Shore N et al. Clin Genitourin Cancer 2023;21(2):278-85.

#### **Prostate Cancer Disease States**



Scher HI et al. PLoS One 2015.

### **Agenda**

#### **INTRODUCTION:** Carpool Karaoke – RTP Style

#### **MODULE 1: Hormonal Therapy**

- Intensification
  - Localized and locally recurrent disease
  - PSA-only recurrence, high risk PRESTO, EMBARK trials
- Metastatic disease role of docetaxel, choice of AR inhibitor
- New approaches CDK4/6 and AKT inhibitors

#### **MODULE 2: Other Treatment Approaches**

- Lutetium Lu 177 vipivotide tetraxetan
- Radium-223 chloride
- PARP inhibitors
- Neuroendocrine differentiation



# Case from the Practice of Atif M Hussein, MD: 76-year-old man who presented with mHSPC with perineural invasion (Gleason 9) receives leuprolide and experiences disease progression almost 6 years later

- 04/24/2018: Needle core biopsy of prostate left lateral base prostate adenocarcinoma Gleason score 9 (4 + 5). Grade Group 5. The tumor involves 80% of the tissue examined. Perineural invasion is present.
- 05/01/2018: PET scan multiple lung lesions. No bone lesions.
- 05/03/2018: Received one dose of leuprolide 22.5 mg SC; PSA decreased from 71.8 on 02/06/2018 to 0.8 on 06/29/2018.
- 07/27/2018: Doing well. Unusual for lung mets without bone mets. Probably need to add abiraterone/prednisone or docetaxel.
- Patient refused to add any therapy to leuprolide since was doing well.
- 02/2024: Asymptomatic, progressive disease in lungs, still no bone disease. PSA increased, now around
   10. PET scan now worse. Biopsy lung lesion done but awaiting results.



KEY ✓ Approved in indication ← Approved in other indication ເ⊗ Lack of response					
Detected Alteration(s) / Biomarker(s)	Associated FDA-approved therapies	Clinical trial availability (see page 5)	% cfDNA or Amplification		
AR T878A	Abiraterone, Flutamide, Flutamide+goserelin, Niraparib+abiraterone, Olaparib+abiraterone	Yes	9.3%		
AR V716M	Bicalutamide, Flutamide	Yes	1.4%		
<i>BRCA2</i> F1216fs	Olaparib, Rucaparib, Talazoparib+enzalutamide	Yes	0.2%		
MSI-High	Pembrolizumab  Dostarlimab, Nivolumab, Nivolumab+ipilimumab	Yes	DETECTED		
PIK3CA R108H	Alpelisib, Capivasertib	Yes	4.1%		
PIK3CA H1047R	Alpelisib, Capivasertib	Yes	0.2%		
MTOR V2291I	None	Yes	4.4%		
APC S678fs	None	Yes	5.2%		

#### Variants of Uncertain Clinical Significance

ATM M2532V (6.4%), MTOR R1818C (5.1%), ALK R1347W (4.3%), MSH6 R922Q (0.4%)

The functional consequences and/or clinical significance of alterations are unknown. Relevance of therapies targeting these alterations is uncertain.

#### Synonymous Alterations

MPL L38L (0.2%)

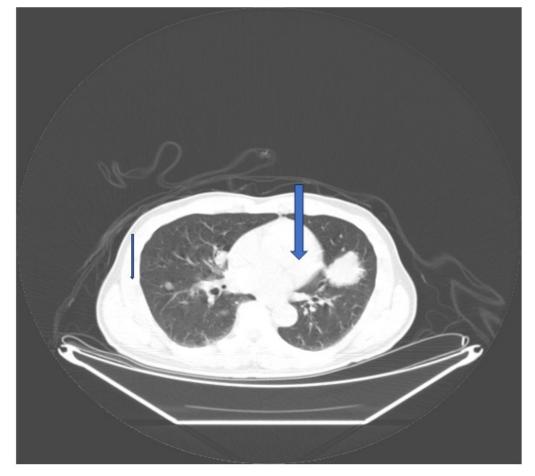
This sequence change does not alter the amino acid at this position and is unlikely to be a therapeutic target. Clinical correlation is advised.

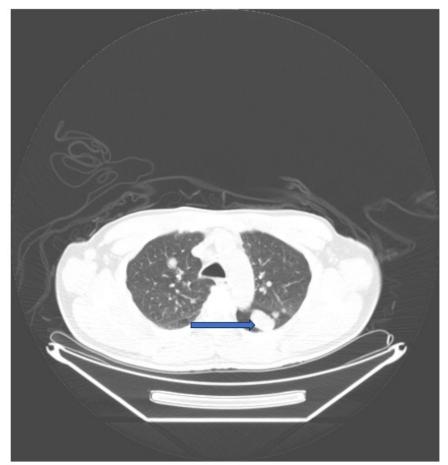


Additional Biomarkers	
Biomarker	Additional Details
Tumor Mutational Burden (TMB)	42.16 mut/Mb
MSI-High	DETECTED



## May 2018

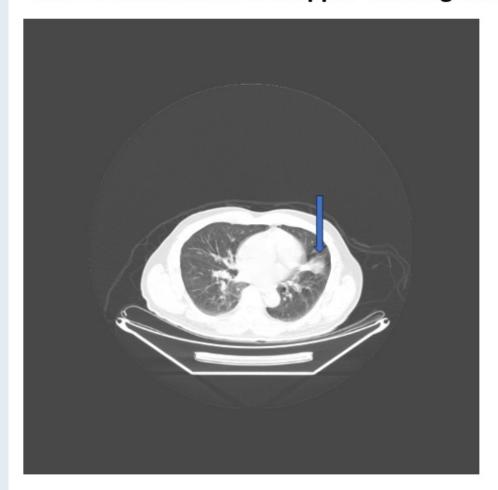


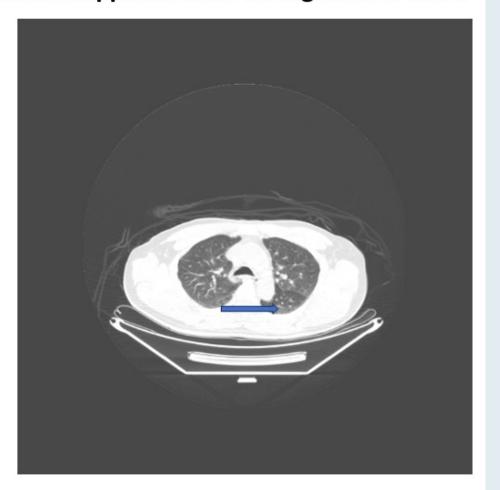




August 2018 compared to May 2018

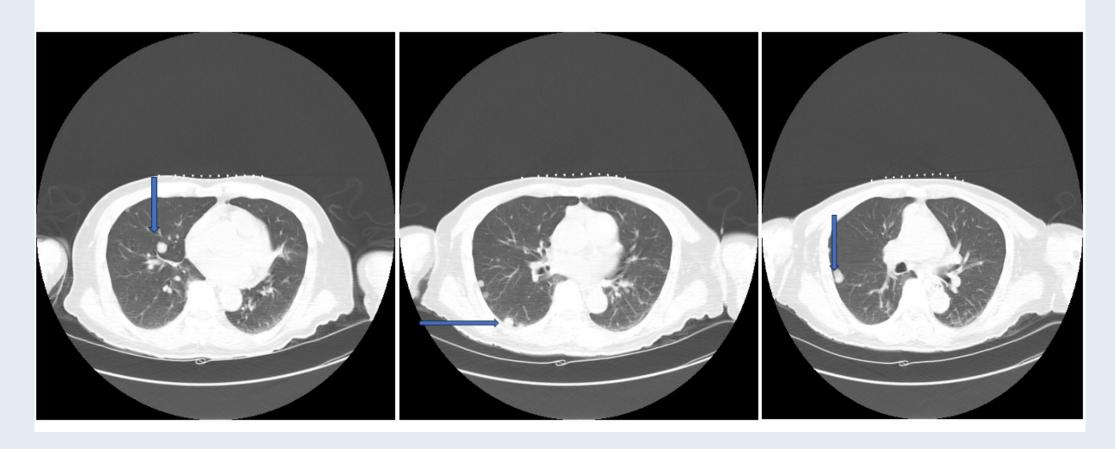
Marked decrease in the upper left lung mass and disappearance of the right lower mass







January 2024 New small bilateral pulmonary nodules





# Case from the Practice of Atif M Hussein, MD: 76-year-old man who presented with mHSPC with perineural invasion (Gleason 9) receives leuprolide and experiences disease progression almost 6 years later

- 04/24/2018: Needle core biopsy of prostate left lateral base prostate adenocarcinoma Gleason score 9 (4 + 5). Grade Group 5. The tumor involves 80% of the tissue examined. Perineural invasion is present.
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- Patient refused to add any therapy to leuprolide since was doing well.
- 02/2024: Asymptomatic, progressive disease in lungs, still no bone disease. PSA increased, now around 10. PET scan now worse. Biopsy lung lesion done but awaiting results.
- Guardant360<sup>®</sup> blood:
  - 2 AR mutations conferring resistance to anti-androgen therapy
  - BRCA2 somatic mutation
  - MSI-high
- Germline testing negative
- NGS pending



### **PSMA-Targeted Radioligand Therapy**

- Hofman MS et al. **Overall survival** with [177Lu]Lu-PSMA-617 versus cabazitaxel in metastatic castration-resistant prostate cancer (TheraP): Secondary outcomes of a randomised, openlabel, phase 2 trial. *Lancet Oncol* 2024;25(1):99-107.
- Fizazi K et al. Health-related quality of life and pain outcomes with [177Lu]Lu-PSMA-617 plus standard of care versus standard of care in patients with metastatic castration-resistant prostate cancer (VISION): A multicentre, open-label, randomised, phase 3 trial. *Lancet Oncol* 2023;24(6):597-610.
- Sartor O et al. Phase III trial of [177Lu]Lu-PSMA-617 in taxane-naive patients with metastatic castration-resistant prostate cancer (PSMAfore). ESMO 2023; Abstract LBA13.
- Sandhu S et al. LuPARP: **Phase 1 trial of <sup>177</sup>Lu-PSMA-617 and olaparib** in patients with metastatic castration resistant prostate cancer (mCRPC). ASCO 2023;Abstract 5005.
- Emmett L et al. **Enzalutamide and <sup>177</sup>Lu-PSMA-617** in poor-risk, metastatic, castration-resistant prostate cancer (mCRPC): A randomised, phase II trial: **ENZA-p (ANZUP 1901)**. ESMO 2023;Abstract LBA84.



### **PSMA-Targeted Radioligand Therapy**

- Rahbar K et al. Safety and survival outcomes of <sup>177</sup>Lu-prostate-specific membrane antigen therapy in patients with metastatic castration-resistant prostate cancer with prior <sup>223</sup>Ra treatment: The RALU study. *J Nucl Med* 2023;64(4):574-8.
- Lantheus and POINT Biopharma announce positive **topline results** from **pivotal SPLASH trial** in metastatic castration-resistant prostate cancer [press release]. December 18, 2023. https://lantheusholdings.gcs-web.com/news-releases/news-release-details/lantheus-and-point-biopharma-announce-positive-topline-results.



## **Key Clinical Questions/Issues Related to Systemic Management/Research in Prostate Cancer**

#### Lutetium Lu 177 vipivotide tetraxetan

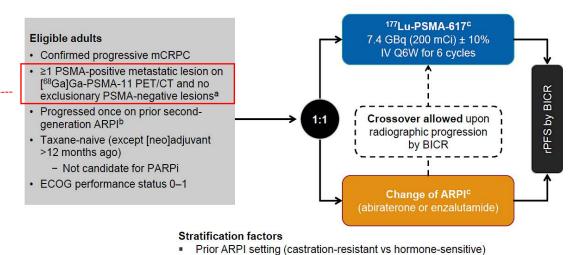
- PSMA findings and treatment benefit
- Follow-up of patients imaging
- Prevention and management of xerostomia and dry eye
- Radiation protection precautions
- Sequencing PSMA radioligand therapy and radium-223
- Re-treatment after initial progression
- Combining PSMA radioligand therapy with other systemic agents



#### PSMAfore: Ph 3 evaluating <sup>177</sup>Lu-PSMA-617 vs change in NHA in chemo-naïve, NHA-exposed mCRPC Baseline characteristics were as expected for a chemo-naïve mCRPC patient population

### **PSMAfore: Study Design**

An international, multicenter, randomized, open-label Phase III study



■ BPI-SF worst pain intensity score (0–3 vs >3)

#### **PSMAfore: Baseline Patient and Disease Characteristics**

	<sup>177</sup> Lu-PSMA-617 N=234	Change of ARPI N=234
Age, median (range), years	71 (43–94)	72 (53–91)
White, n (%)	211 (90.2)	214 (91.5)
ECOG performance status, n (%)		
0	146 (62.4)	115 (49.1)
1	86 (36.8)	114 (48.7)
Gleason score 8–10, n (%)	136 (58.1)	107 (45.7)
PSA, median (range), μg/L	18.4 (0-1197)	14.9 (0-4224)
Hemoglobin, median (range), g/L	128.0 (88-155)	129.0 (88-156)
Alkaline phosphatase, median (range), IU/L	100.0 (36–1727)	103.5 (28-1319)
Site of disease, n (%)		
Liver	13 (5.6)	7 (3.0)
Lymph node	76 (32.5)	74 (31.6)
Bone	205 (87.6)	203 (86.8)
Prior ARPI, n (%)		
Abiraterone	119 (50.9)	130 (55.6)
Enzalutamide	94 (40.2)	84 (35.9)
Other	21 (9.0)	20 (8.5)

Note that 505/547 (92%) of patients meet <sup>68</sup>Ga-PSMA-11 screening criteria (see below)

68Ga PSMA +ve based on whether soft tissue or bone only disease: centrally determined visually based on a lesion showing greater intensity compared to background liver; soft tissue disease (with or without bone disease), all of the following 5 requirements must be met for eligibility [68Ga]Ga-PSMA-11 PET positivity in:

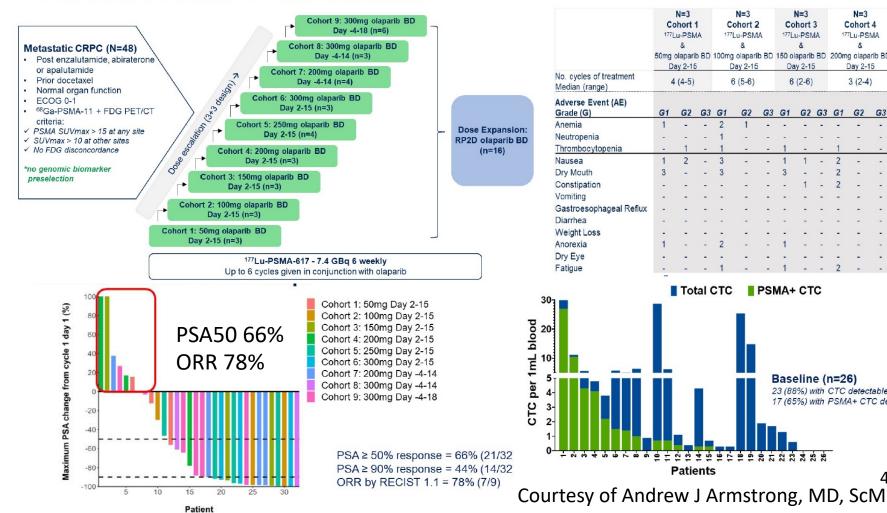
- 1) ≥1 lesion (osseous or extraosseous) irrespective of size;
- 2) all lymph nodes that measure ≥25 mm in short axis:
- 3) all bone metastases with a soft tissue component ≥10 mm in the longest diameter (PSMA-negative bone metastases without a soft tissue component do not exclude pts);
- 4) all solid organ metastases ≥10 mm in the longest diameter;
- 5) all intraprostatic lesions regardless of size.

bone-only disease: ≥1 site of bone involvement must be [68Ga]Ga-PSMA-11 PET positive.

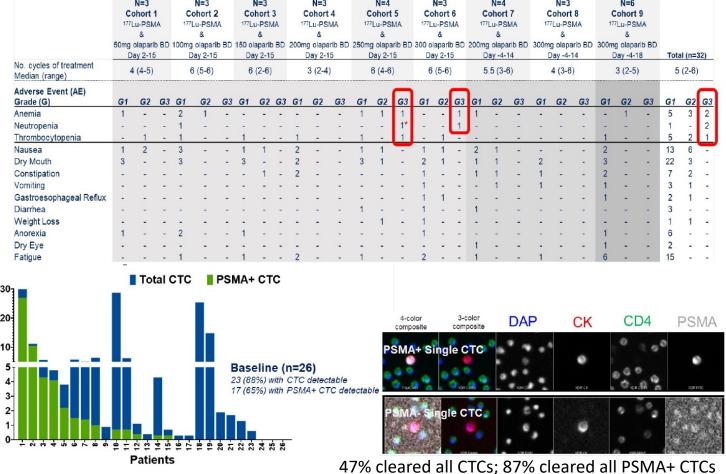
## 177Lu-PSMA-617 Combination Therapy: LuPARP

No DLTs, RP2D is olaparib 300 mg BID days -4 to +18 of each 6 weekly cycle

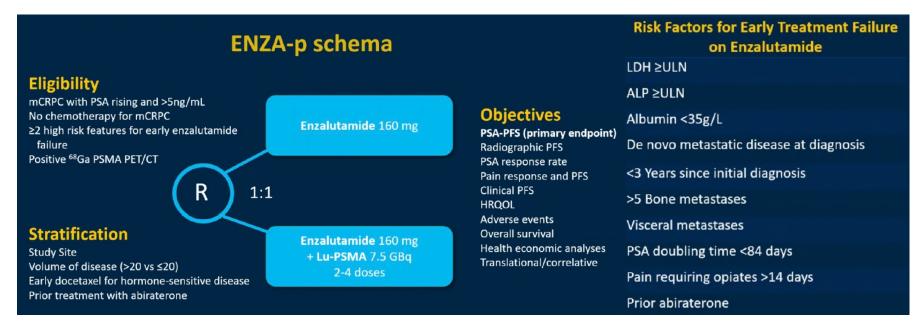
#### LuPARP: Phase 1 Trial Schema



#### **LuPARP** results: Treatment Related AEs >5%



## Enza-p: Synergy with ARSI Therapy?

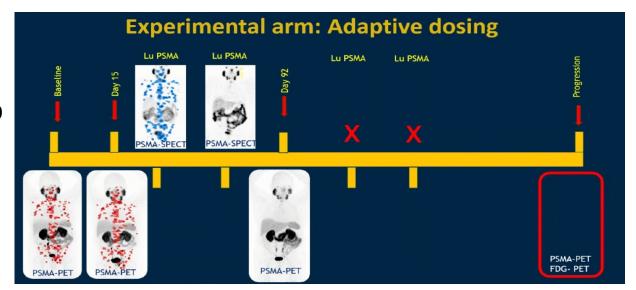


**Patient population:** 

11-14% prior abiraterone 52-58% de novo M1 53-56% prior docetaxel for mHSPC

SUVmax>15 at one site, >10 at all sites PLUS 2 adverse prognostic factors

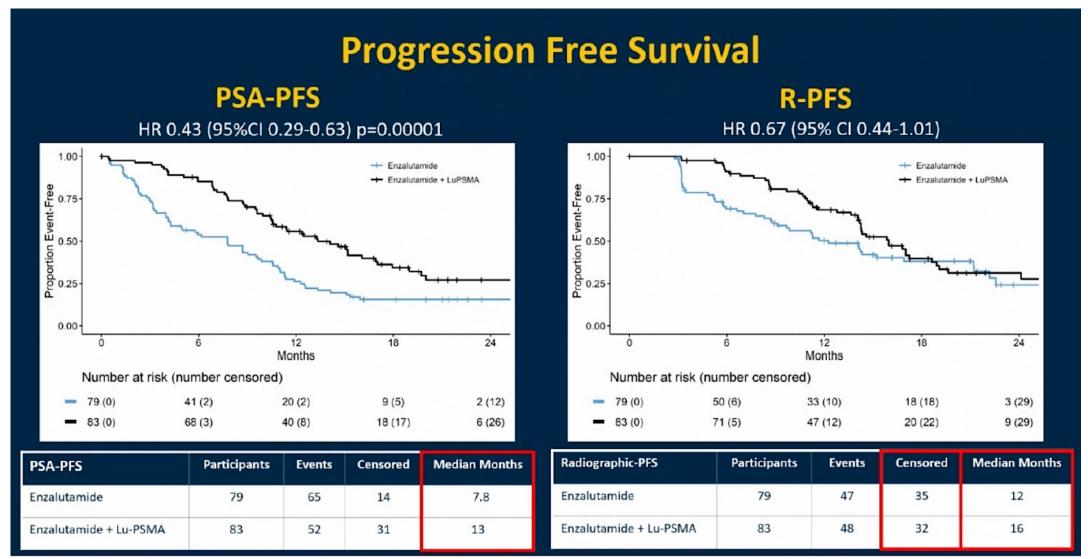
Emmett L et al ESMO 2023 LBA84



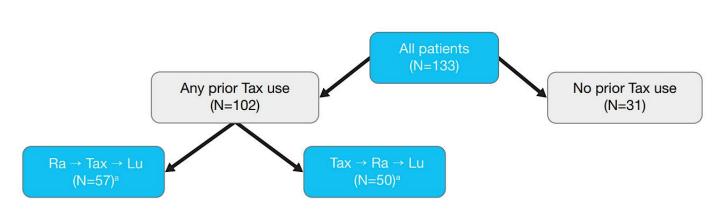
2-4 doses given adaptively based on PSMA PET response, with further dosing only for those with PSMAavid persistent disease

## Enza-p Results

PSA50 93% (combo) vs 68% (enza alone) Similar adverse event profile except slightly more dry mouth (40% vs 10%) and anemia (14% vs 3%)

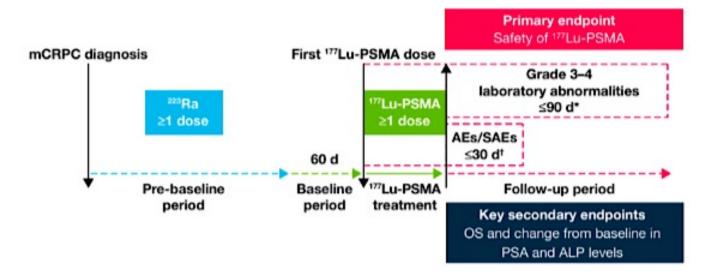


#### Is Lu177-PSMA-617 Safe After Radium-223? RALU phase 2 Study



Groups highlighted in blue are included in these analyses

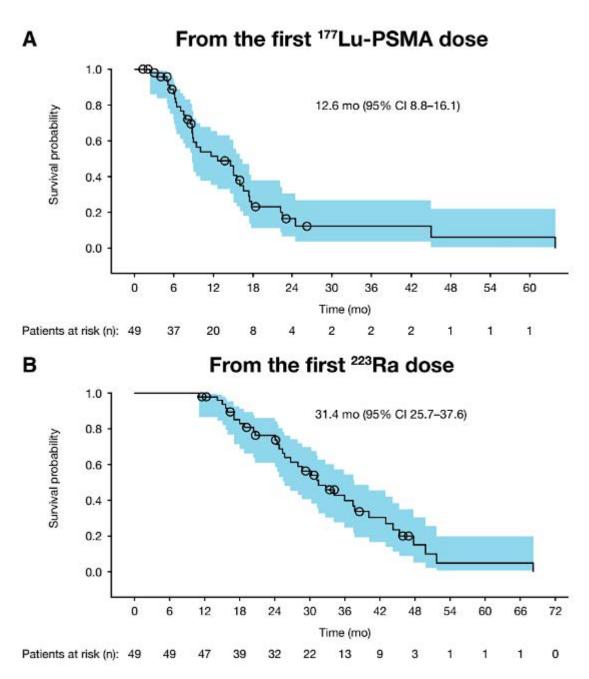
<sup>&</sup>lt;sup>a</sup>13 patients who received Tax both before and after <sup>223</sup>Ra were included in both groups



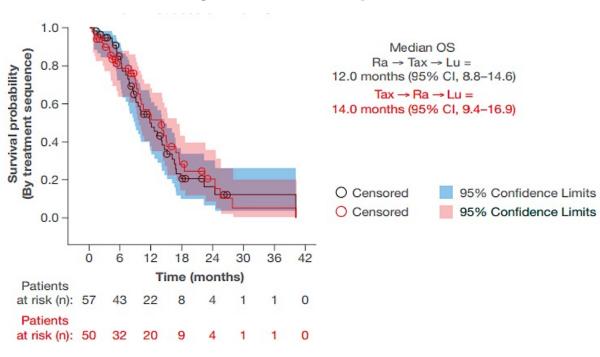
		By treatmen	t sequence
Baseline characteristics	All patients (N=133)	Ra → Tax → Lu (N=57)	Tax → Ra → Lu (N=50)
Age, median (range) years	73 (49–90)	73 (53–90)	71 (49–84)
ECOG PS 1 2	82 (62) 51 (38)	37 (65) 20 (35)	31 (62) 19 (38)
PSA (ng/mL), median (range)	286 (1–12,229)	329 (7-12,229)	500 (20-5,810)
ALP (U/L), median (range)	146 (23–973)	154 (23–973)	128 (51–532)
Extent of metastatic disease <sup>b</sup> Bone metastases with lymph node metastases  Bone metastases without lymph node metastases  Visceral metastases	63 (47) 33 (25) 36 (27)	24 (42) 10 (18) 23 (40)	27 (54) 9 (18) 14 (28)
Life-prolonging therapies			
≥4 Life-prolonging therapies <sup>c</sup>	75 (56)	44 (77)	35 (70)
Prior <sup>233</sup> Ra	133 (100)	57 (100)	50 (100)
Completed <sup>223</sup> Ra therapy (6 injections)	94 (71)	42 (74)	31 (62)
Second-generation antiandrogen therapies Abiraterone Enzalutamide Abiraterone and enzalutamide	95 (71) 92 (69) 71 (53)	43 (75) 45 (79)	36 (72) 30 (60)
Number of any Tax lines <sup>d</sup> 0 1 ≥2	31 (23) 67 (50) 35 (26)	0 (0) 33 (58) 24 (42)	0 (0) 27 (54) 23 (46)
Docetaxel  Number of cycles° 1-4 ≥5 Missing/unknown	99 (74) 27 (24) 59 (53) 26 (23)	54 (95) 17 (27) 32 (51) 14 (22)	50 (100) 15 (26) 28 (48) 15 (26)
Cabazitaxel  Number of cycles¹ 1–4 cycles ≥5 cycles Missing/unknown	30 (23) 7 (21) 14 (42) 12 (36)	21 (37) 11 (48) 6 (26) 6 (26)	19 (38) 4 (18) 10 (45) 8 (36)

Rahbar K, et al. Ann Oncol. 2022;33(suppl 7):S1180 and J Nucl Med 2023; 64: 574-78.

Courtesy of Andrew J Armstrong, MD, ScM

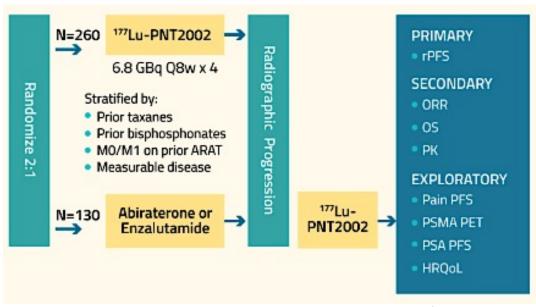


#### **By Treatment Sequence**



- In patients for whom radium 223 had been used as part of routine disease management, subsequent lutetium 177-PSMA therapy was clinically feasible and well tolerated, with acceptable myelosuppression rates
- Survival outcomes in patients who received the radium 223/lutetium 177-PSMA sequence were similar to those reported in previous real-world studies and the phase 3 VISION trial

## Phase 3 SPLASH study of 177Lu-PNT2002 demonstrated statistically significant improvement in radiographic progression-free survival (rPFS)



84.6% cross-over at progression on control (does not count commercial cross-over)

The SPLASH trial met its primary endpoint, improved rPFS per BICR of 9.5 mo for patients treated with  $^{177}$ Lu-PNT2002, compared to 6.0 months for patients treated with ARPI in the control arm, a statistically significant 29% reduction in the risk of radiographic progression or death (hazard ratio [HR] 0.71; p=0.0088).

At the time of the analysis, interim overall survival (OS) results were immature (46% of protocol-specified target OS events reached), the HR was 1.11.

	<sup>177</sup> Lu-PNT2002 Arm	ARPI Arm
TEAEs of CTCAE Grade ≥3	30.1%	36.9%
Serious TEAEs	17.1%	23.1%
TEAEs Leading to Discontinuation	1.9%	6.2%

#### **PARP Inhibitors for mCRPC**

- Saad F et al. **Olaparib plus abiraterone** versus placebo plus abiraterone in metastatic castration-resistant prostate cancer **(PROpel)**: **Final prespecified overall survival results** of a randomised, double-blind, phase 3 trial. *Lancet Oncol* 2023;24(10):1094-108.
- Shore ND et al. Efficacy of **olaparib (O) plus abiraterone (A)** versus placebo (P) plus A in patients (pts) with **metastatic castration-resistant prostate cancer (mCRPC)** with **single homologous recombination repair gene mutations (HRRm) in the PROpel trial.** Genitourinary Cancers Symposium 2024; Abstract 165.
- Chi KN et al. Niraparib (NIRA) with abiraterone acetate plus prednisone (AAP) as first-line (1L) therapy
  in patients (pts) with metastatic castration-resistant prostate cancer (mCRPC) and homologous
  recombination repair (HRR) gene alterations: Three-year update and final analysis (FA) of MAGNITUDE.
  ESMO 2023; Abstract LBA85.
- Agarwal N et al. **Talazoparib plus enzalutamide** in men with **first-line metastatic castration-resistant prostate cancer (TALAPRO-2)**: A randomised, placebo-controlled, phase 3 trial. *Lancet* 2023;402(10398):291-303.
- Fizazi K et al. First-line talazoparib with enzalutamide in HRR-deficient metastatic castration-resistant prostate cancer: The phase 3 TALAPRO-2 trial. *Nat Med* 2024;30(1):257-64.
- Fizazi K et al. **Rucaparib** or physician's choice in **metastatic prostate cancer**. *N Engl J Med* 2023;388(8):719-32.



## **Key Clinical Questions/Issues Related to Systemic Management/Research in Prostate Cancer**

#### **PARP** inhibitors

- Appropriate germline and somatic workup
  - Alterations for which PARP inhibitors to consider
- PARP inhibitor/AR pathway inhibitor combinations for mCRPC
  - Olaparaib + abiraterone (PROpel)
  - Niraparib + abiraterone (MAGNITUDE)
  - Talazoparib + enzalutamide (TALAPRO-2)
- Toxicity profile of available agents; choice of treatment
  - Management of fatigue and anemia associated with PARP inhibitors
  - Risk of AML/MDS



## PROpel Trial: First-line Abiraterone/Prednisone ± Olaparib in mCRPC

International, randomized, double-blind phase III study

Stratified by metastatic disease sites (bone only vs visceral vs other); taxane for mHSPC (yes vs no)

#### **Patients With mCRPC**

- No prior tx for mCRPC
- Ongoing ADT
- Docetaxel for mHSPC allowed
- No prior abiraterone
- ECOG PS 0/1
- No screening for HRR mutations required, but optional biopsies and blood collected for NGS testing (N = 796)

Olaparib 300 mg BID +
Abiraterone 1000 mg QD +
Prednisone/Prednisolone 5 mg BID
(n = 399)

Placebo +
Abiraterone 1000 mg QD +
Prednisone/Prednisolone 5 mg BID
(n = 397)

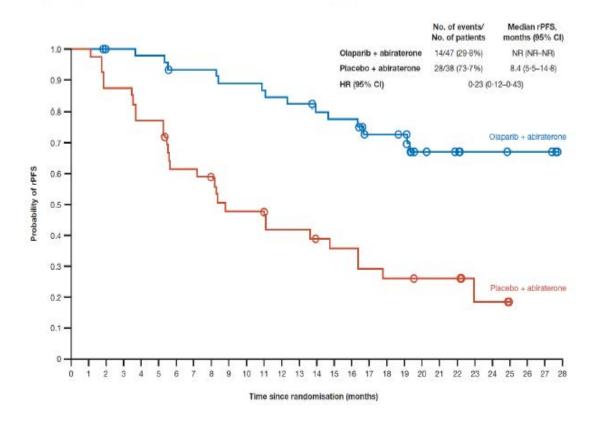
Until radiographic progression or unacceptable toxicity

Crossover from placebo to olaparib not permitted

- Primary endpoint: rPFS by investigator
- **Key secondary endpoints**: OS, time to subsequent therapy or death, PFS2, ORR, HRR mutation prevalence (retrospectively assessed), HRQoL, safety

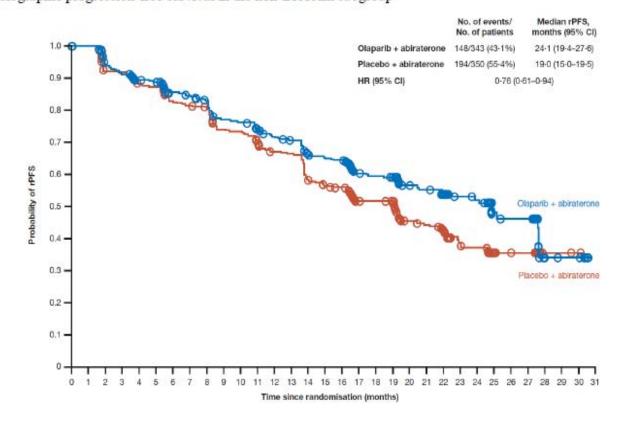
## **Updated rPFS in PROpel by BRCAm Status**

#### A. Radiographic progression-free survival in the BRCAm subgroup



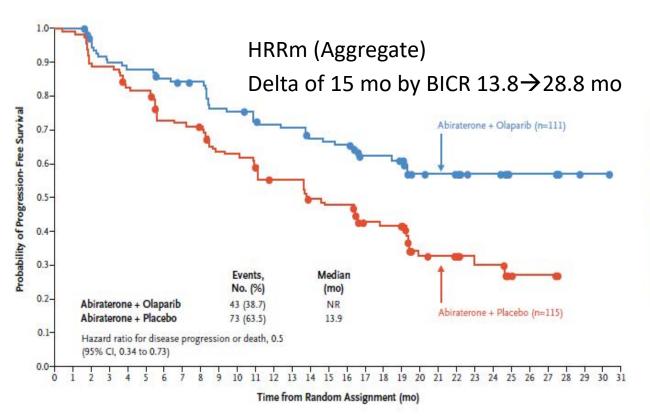
PSA PFS HR 0.14 (0.08-0.25)

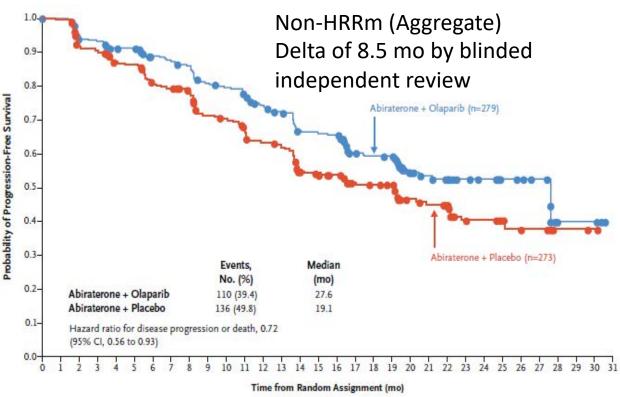
#### Radiographic progression-free survival in the non-BRCAm subgroup



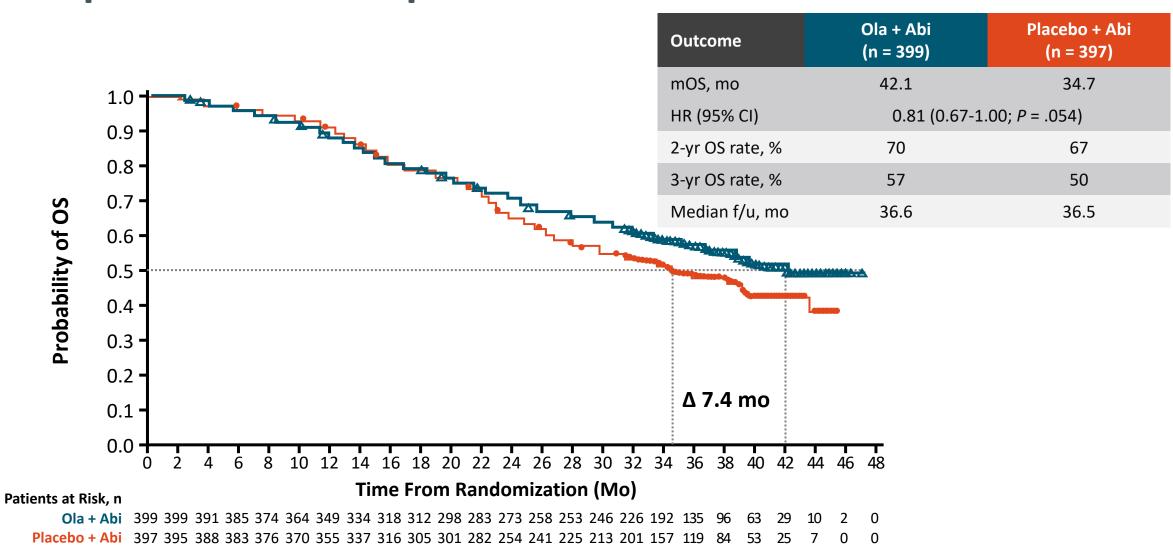
PSA PFS HR 0.67 (0.55-0.82)

### Is there clinical utility in delaying rPFS by 8.5 months?

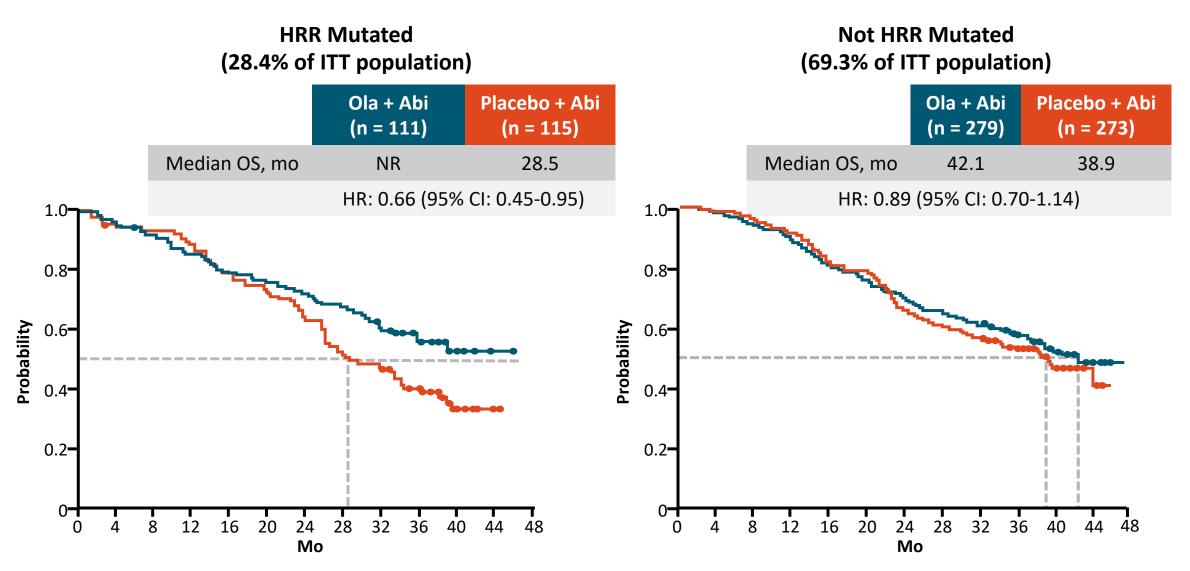




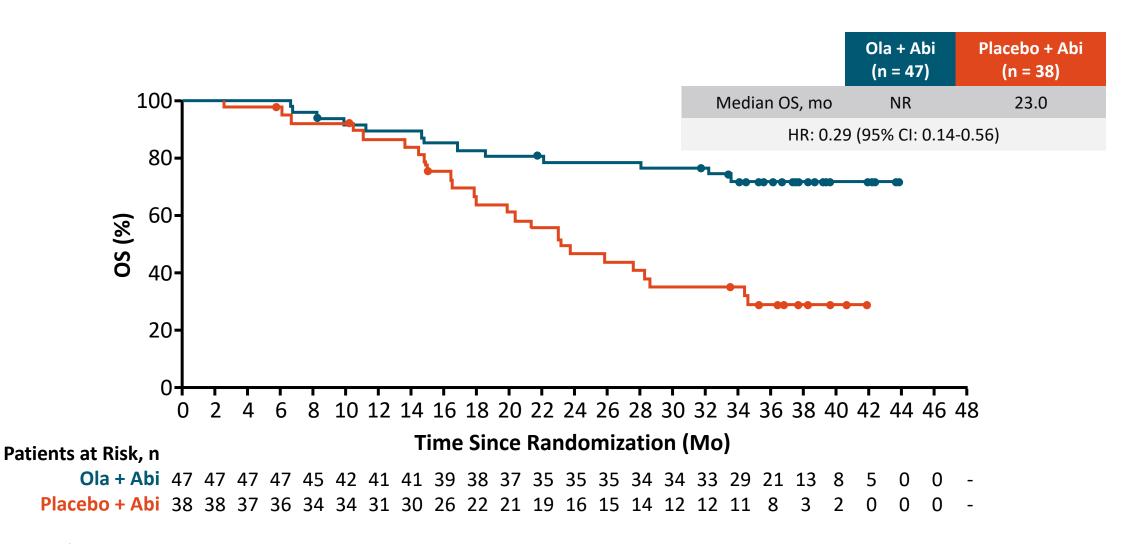
## **PROpel: OS in ITT Population**



## **PROpel: OS by HRR Status**

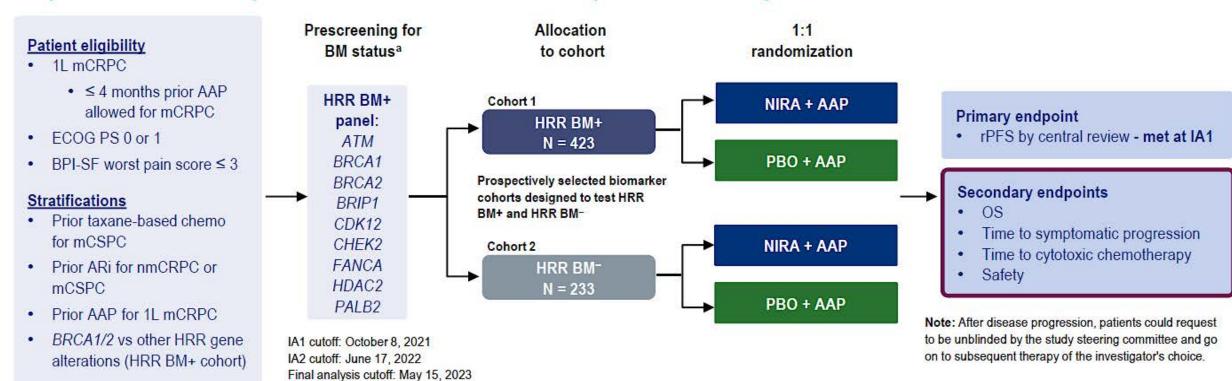


## PROpel: OS in BRCAm



## **MAGNITUDE**

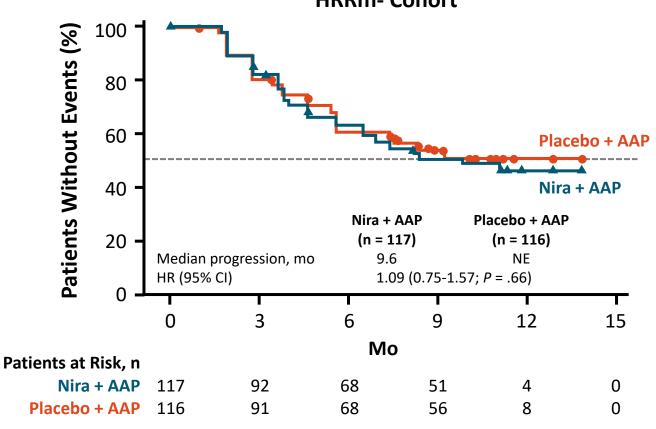
Phase 3, randomized, double-blind, placebo-controlled study enrolling a population representative of patients treated in clinical practice today



<sup>&</sup>lt;sup>a</sup>Tissue and plasma assays: FoundationOne tissue test (FoundationOne tissue test (FoundationOne tissue test (FoundationOne tissue assays, Invitae germline testing (blood/saliva), local lab biomarker test results demonstrating a pathogenic germline or somatic alteration listed in the study BM gene panel. AR, androgen receptor; ARi, androgen receptor inhibitor; BM, biomarker; BPI-SF, Brief Pain Inventory-Short Form; ECOG PS, Eastern Cooperative Oncology Group performance status; IA, interim analysis; mCSPC, metastatic castration-sensitive prostate cancer; nmCRPC, nonmetastatic castration-resistant prostate cancer.

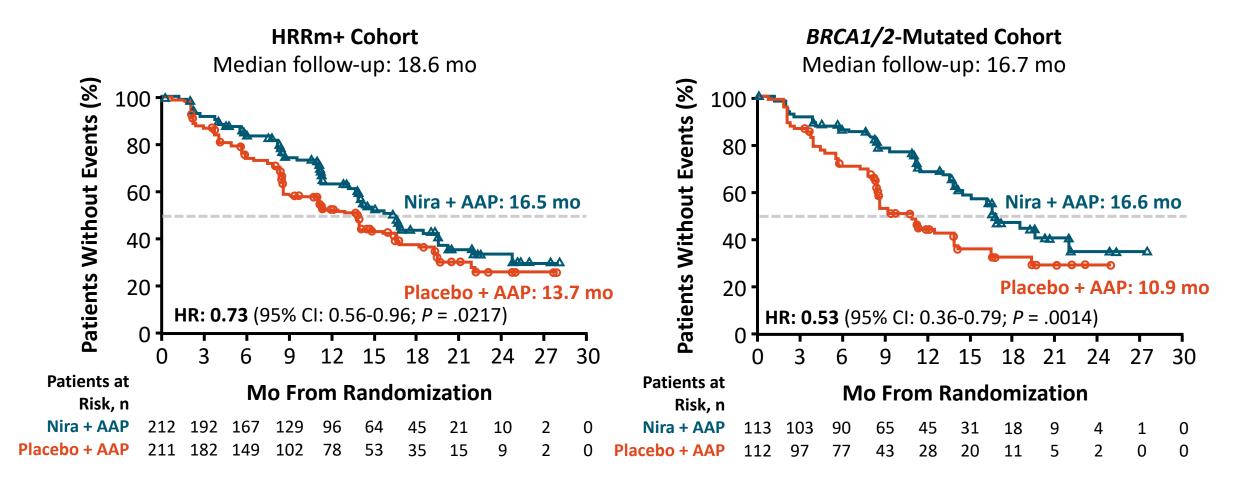
## MAGNITUDE: PSA Progression and/or rPFS in HRRm- Cohort (Prespecified Early Futility Analysis)

## Radiographic or PSA Progression: HRRm- Cohort

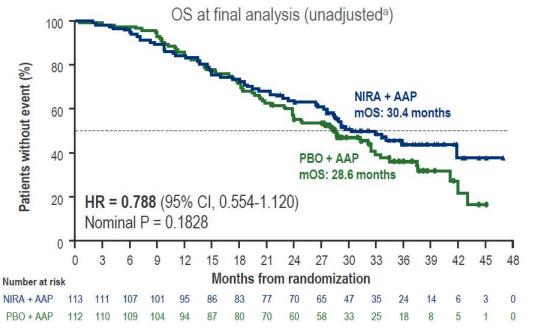


- Futility definition (HR ≥1) met in HRRmcohort at time of preplanned analysis
  - Composite HR: 1.09 (95% CI: 0.75-1.59)
  - PSA HR: 1.03 (95% CI: 0.67-1.59)
  - rPFS HR: 1.03 (95% CI: 0.63-1.67)
- Grade 3/4 AEs higher in niraparib vs placebo arm
- HRRm- enrollment stopped in August 2020

## MAGNITUDE: Radiologic PFS by Central Review (Primary Endpoint)



#### Not as much MAGNITUDE of benefit...



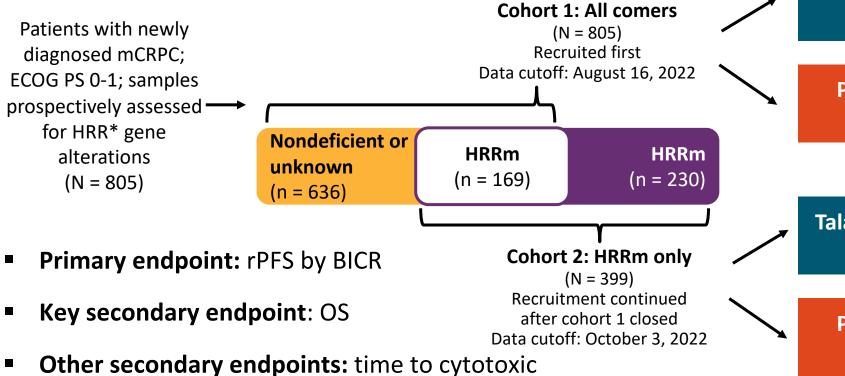
Chi et al ESMO 2023 LBA 85

<sup>a</sup>Does not account for baseline imbalances. mOS, median overall survival.

TEAEs of special interest,	NIRA + AA	P (N = 212)	PBO + AAP (N = 211)		
n (%)	All grade	Grade ≥ 3	All grade	Grade ≥ 3	
Participants with ≥ 1 AESI	179 (84.4)	113 (53.3)	136 (64.5)	64 (30.3)	
Anemia	111 (52.4)	65 (60.6)	48 (22.7)	18 (8.5)	
Thrombocytopenia	51 (24.1)	18 (8.5)	20 (9.5)	5 (2.4)	
Neutropenia	34 (16.0)	14 (6.6)	15 (7.1)	5 (2.4)	
Pulmonary embolism	10 (4.7)	7 (3.3)	3 (1.4)	3 (1.4)	
Acute myeloid leukemia	0	0	1 (0.5)	1 (0.9)	

## TALAPRO-2: Enzalutamide ± Talazoparib as First-Line Therapy for mCRPC

Randomized, double-blind, placebo-controlled phase III trial



Talazoparib<sup>†</sup> + Enzalutamide<sup>‡</sup> (n = 402)

Placebo + Enzalutamide<sup>‡</sup> (n = 403)

Talazoparib<sup>†</sup> + Enzalutamide<sup>‡</sup> (n = 200)

Placebo + Enzalutamide<sup>‡</sup> (n = 199)

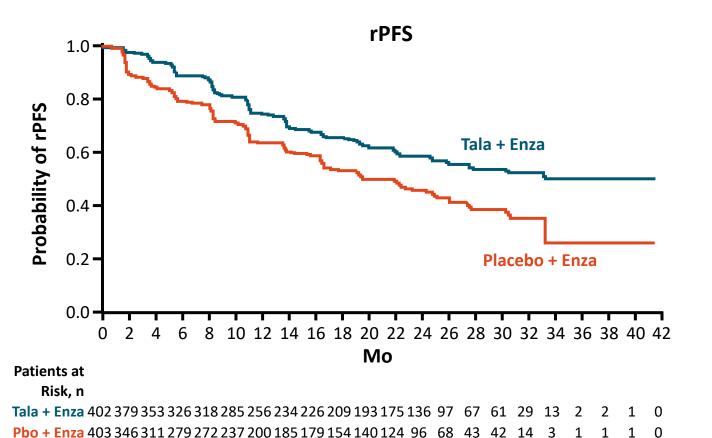
<sup>†</sup>0.5 mg QD; 0.35 mg if moderate renal impairment. <sup>‡</sup>160 mg QD.

chemotherapy, PFS2 (by investigator), ORR, PROs, safety

Agarwal. ASCO GU 2023. Abstr LBA17. Agarwal. Lancet. 2023;204:291. Fizazi. ASCO 2023. Abstr 5004. Fizazi. Nat Med. 2023;[Epub].

<sup>\*</sup>HRR gene alterations: BRCA1, BRCA2, PALB2, ATM, ATR, CHECK2, FANCA, RAD51C, NBN, MLH1, MRE11A, CDK12.

## TALAPRO-2: rPFS by BICR in Cohort 1 All Comers (Primary Endpoint)

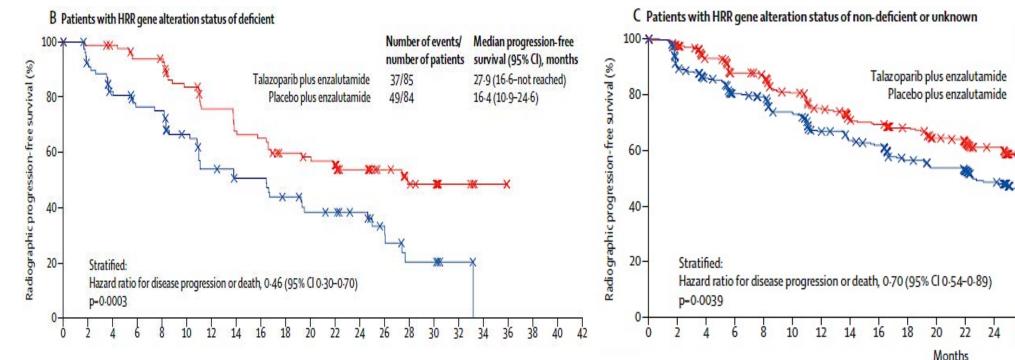


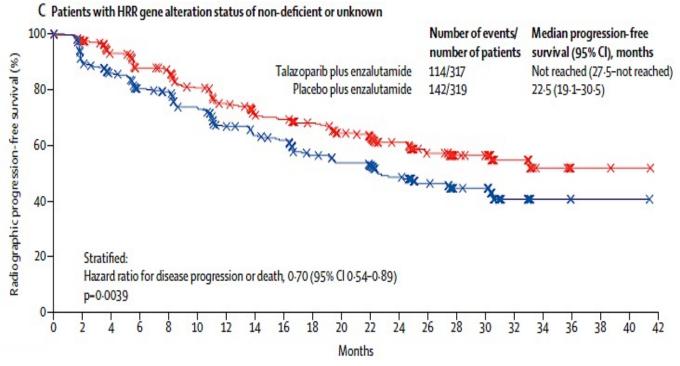
	Tala + Enza (n = 402)	Placebo + Enza (n = 403)
Events, n	151	191
Median rPFS, mo (95% CI)	NR (27.5-NR)	21.9 (16.6-25.1)
Median f/u, mo	24.9	24.6
HD: 0.62 /0	1E0/ CI+ D E1 D =	72 · D < 001\

HR: 0.63 (95% CI: 0.51-0.73; *P* <.001)

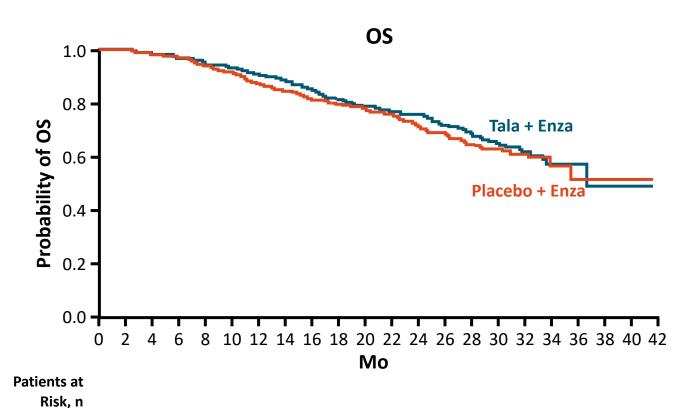
■ Investigator-assessed rPFS HR: 0.64 (95% CI: 0.50-0.91; *P* <.001)

### Is there clinical utility in improving rPFS by 30%?





## **TALAPRO-2: Overall Survival in All-Comers Population**



	Tala + Enza (n = 402)	Placebo + Enza (n = 403)
Events, n	123	123
Median OS, mo (95% CI)	36.4 (33.5-NR)	NR (33.7-NR)

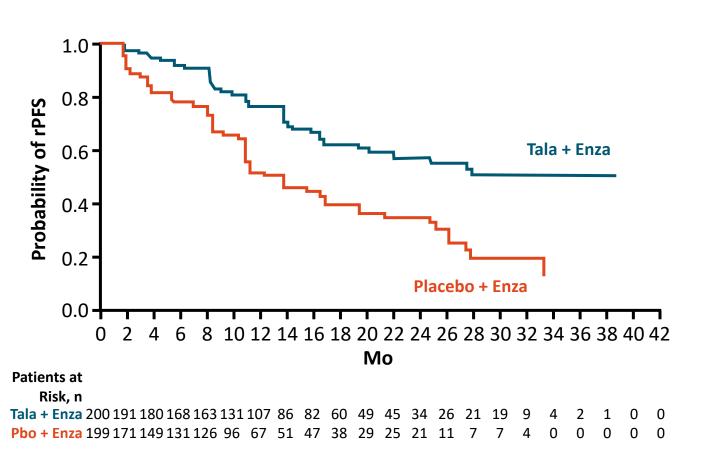
HR: 0.89 (95% CI: 0.69-1.14; *P* = .35)

OS data at 31% mature; additional follow-up needed

Pbo + Enza 403 399 387 376 360 344 326 315 301 290 280 260 200 146 117 86 42 16 6 3 1 0

Tala + Enza 402 398 388 377 368 360 344 331 313 298 288 277 223 167 136 104 59 26 10

## **TALAPRO-2: rPFS by BICR in HRR-Deficient Cohort 2**

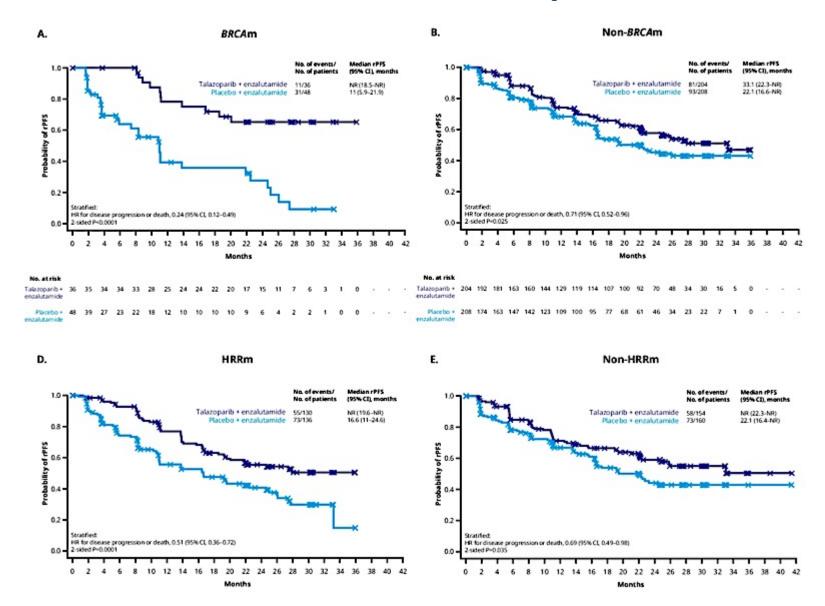


	Tala + Enza (n = 200)	Placebo + Enza (n = 199)
Events, n	66	104
Median rPFS, mo (95% CI)	NR (21.9-NR)	13.8 (11.0-16.7)
Median f/u, mo	17.5	16.8

HR: 0.45 (95% CI: 0.33-0.61; *P* <.0001)

■ Investigator-assessed rPFS HR: 0.48 (95% CI: 0.33-0.67; *P* <.0001)

## **TALAPRO-2 Updates from GU 2024**



**Overall Survival Update** 

BRCAm HR 0.53 (0.28-1.03) p=0.06

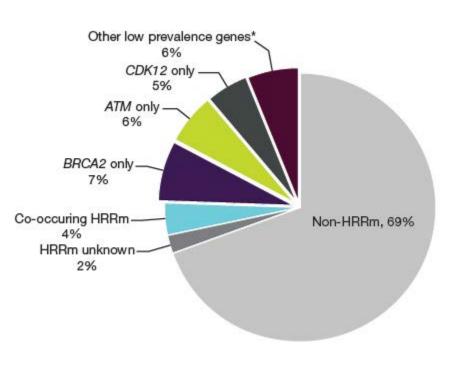
Non-BRCAm HR 0.76 (0.56-1.03) p=0.07

HRRm HR 0.68 (0.47-0.99) p=0.04

Non-HRRm HR 0.88 (0.63-1.23) p=0.45

Shore et al GU 2024 abstract 136

### What about combination activity in non-BRCA2 HRRm mCRPC patients?



## • In the CHEK2 population, 5/7 (71%) patients in the olaparib plus abiraterone arm and 8/12 (67%) patients in the placebo plus abiraterone arm had an rPFS event; median rPFS was 5.7 months with olaparib plus abiraterone versus 13.8 months with placebo plus abiraterone

- In the *BRCA1* population, 0/6 (0%) patients in the olaparib plus abiraterone arm and 3/3 (100%) patients in the placebo plus abiraterone arm had an rPFS event; median rPFS was not reached with olaparib plus abiraterone versus 5.5 months with placebo plus abiraterone
- In the *PALB2* population, 1/3 (33%) patients in the olaparib plus abiraterone arm and 3/4 (75%) patients in the placebo plus abiraterone arm had an rPFS event; median rPFS was not reached with olaparib plus abiraterone versus 7.3 months with placebo plus abiraterone

#### rPFS

Shore, Armstrong	et al	<b>GU 2024</b>	abstract 165
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	Events	s, n/N%	Ola + abi Median rPFS,	Pbo + abi Median rPFS,			
	Ola + abi	Pbo + abi	months	months		HR (	95% CI)
All patients	168/399 (42)	226/397 (57)	24.8	16.6		0.66 (0	0.54, 0.81)
HRRm	43/111 (39)	73/115 (63)	NR	13.9	<b>⊢</b>	→ 0.50 (0	0.34, 0.73)
Non-HRRm	119/279 (43)	149/273 (55)	24.1	19.0	F	<b>→</b> 1 0.76 (0	0.60, 0.97)
BRCAm	14/47 (30)	28/38 (74)	NR	8.4	<b>⊢</b>	0.23 (0	0.12, 0.43)
Non-BRCAm	148/343 (43)	194/350 (55)	24.1	19.0	٠	O.76 (0	0.61, 0.94)
BRCA2 single gene	8/30 (27)	20/28 (71)	NR	8.4	<b>└──</b>	0.20 (0	0.08, 0.44)
ATM single gene	6/21 (29)	14/28 (50)	NR	19.9	<b>—</b>	0.55 (0	0.20, 1.38)
CDK12 single gene	8/19 (42)	14/21 (67)	NR	16.6	-	0.51 (	0.20, 1.18)
					0.1	1	1
					Ola + abi be	tter Pbo + abi be	

OS	Events Ola + abi	s, n/N% Pbo + abi	Ola + abi Median OS, months	Pbo + abi Median OS, months		HR (95% CI)
All patients	176/399 (44)	205/397 (52)	42.1	34.7		0.81 (0.67, 1.00)
HRRm	48/111 (43)	69/115 (60)	NR	28.5	<b>⊢</b>	0.66 (0.45, 0.95)
Non-HRRm	123/279 (44)	132/273 (48)	42.1	38.9	H	0.89 (0.70, 1.14)
BRCAm	13/47 (28)	25/38 (66)	NR	23.0	<b>⊢</b>	0.29 (0.14, 0.56)
Non-BRCAm	158/343 (46)	176/350 (50)	39.6	38.0	H∰H	0.91 (0.73, 1.13)
BRCA2 single gene	6/30 (20)	18/28 (64)	NR	23.6 ⊢	•	0.20 (0.07, 0.48)
ATM single gene	9/21 (43)	15/28 (54)	NR	31.9		0.79 (0.33, 1.77)
CDK12 single gene	9/19 (47)	15/21 (71)	NR	33.7		0.57 (0.24, 1.27)
PSA50 was 93%	in BRCA2m	with combo	vs 31% with	<b>n</b> o. <sup>-</sup>	1 1	10

PSA50 was 93% in BRCA2m with combo vs 31% with abi; for ATMm was 76 vs 75%; for CDK12 was 83 vs 62%

Ola + abi better Pbo + abi better

## The future:

## Evaluation of PARPi Sensitivity Genomic Biomarkers

Non-Traditional HRD Genes: needs meta-analysis across trials!

#### **PARP Sensitive Alterations**

- MMS22L loss (5-15%), 6q16.1
  - Unless TP53 loss/mutation
- RNASEH2 loss (12%), 13q14.3
  - Unless RB1 loss/BRCA2 wt, higher BRCA levels
- WDR76 loss
- RAD54L loss
- MCM6 loss
- FANCI loss
- CHD1 loss or SPOP F133V

#### **PARP Resistant Alterations**

- PARP1 or PARP2 loss
- RB1 loss (BRCA wt)
- PARG loss
- ADPRHL2 loss
- TP53BP1 gain
- PPP2R2A loss
- CHEK2 loss (increases BRCA2, TP53→E2F7 dependent)

### In conclusion

- The Europeans have it correct, by allowing physicians and patients to decide on the net risks and benefits for PARP/AR inhibitor combinations as per the original study designs of PROpel and TALAPRO-2
  - Large magnitude of benefit in rPFS delay ~6-11 mo over an ACTIVE control ARSI therapy, unlike many other failed mCRPC trials
  - European Commission approved both identically for first line mCRPC for patients where chemotherapy is not indicated

## **Additional Abstracts – Dr Armstrong**

- Meyer HM et al. Lurbinectedin in prostatic small cell and neuroendocrine carcinoma. 2024 ASCO Genitourinary Cancers Symposium; Abstract 164.
- Beltran H et al. Interim results from a phase 1/2 study of HPN328, a tri-specific, half-life (T1/2) extended DLL3-targeting T-cell engager, in patients (pts) with neuroendocrine prostate cancer (NEPC) and other neuroendocrine neoplasms (NEN). 2024 ASCO Genitourinary Cancers Symposium; Abstract 121.
- Rathkopf DE et al. First-in-human phase 1 study of CC-94676, a first-in-class androgen receptor
  (AR) ligand-directed degrader (LDD), in patients (pts) with metastatic castration-resistant
  prostate cancer (mCRPC). 2024 ASCO Genitourinary Cancers Symposium; Abstract 134.



## **Key Clinical Questions/Issues Related to Systemic Management/Research in Prostate Cancer**

**Neuroendocrine differentiation and small cell strategies** 

- Lurbinectedin
- Tarlatamab
- Other agents under investigation



# Consensus or Controversy? Clinical Investigators Provide Perspectives on the Current and Future Management of Ovarian Cancer

Part 1 of a 2-Part CME Symposium Series Held in Conjunction with the 2024 Society of Gynecologic Oncology (SGO) Annual Meeting on Women's Cancer®

Monday, March 18, 2024

6:30 AM - 8:00 AM PT (9:30 AM - 11:00 AM ET)

**Faculty** 

Joyce F Liu, MD, MPH
Mansoor Raza Mirza, MD
David M O'Malley, MD

**Moderator Kathleen N Moore, MD, MS** 



## Thank you for joining us!

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