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# TALZENNA<sup>®</sup> in Combination With Enzalutamide for the Treatment of Adult Patients With mCRPC

United States Food and Drug Administration  
Oncologic Drugs Advisory Committee

May 21, 2025





# Introduction

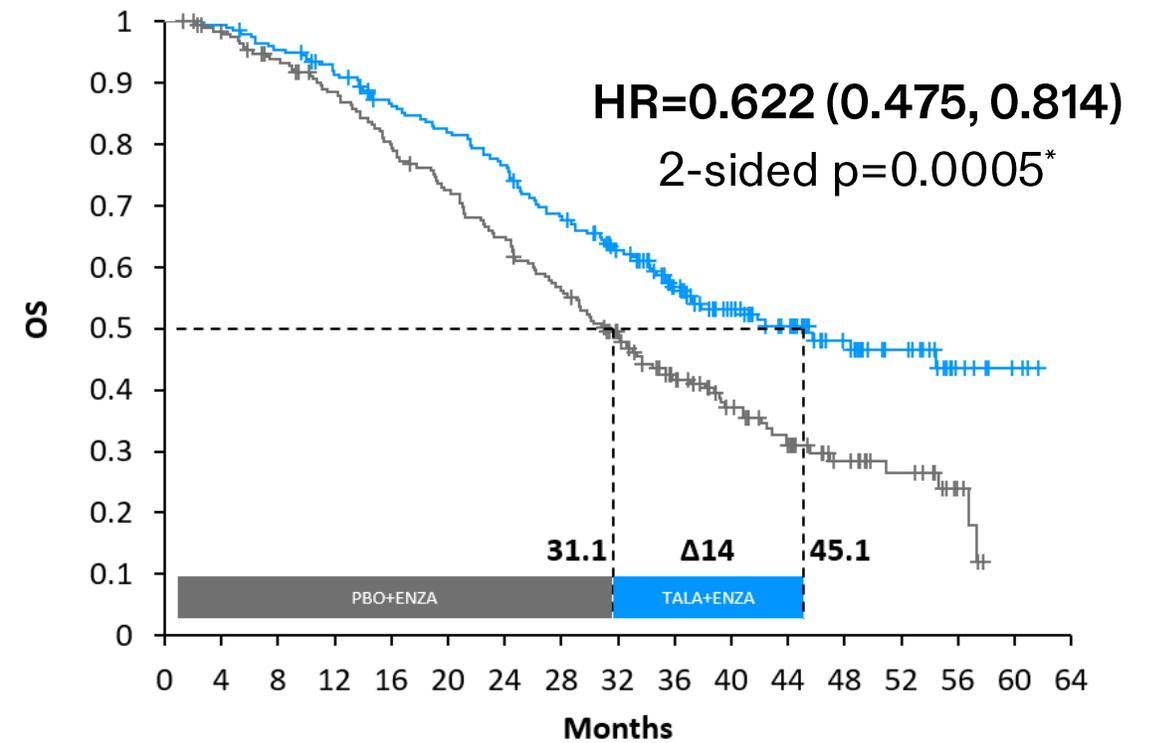
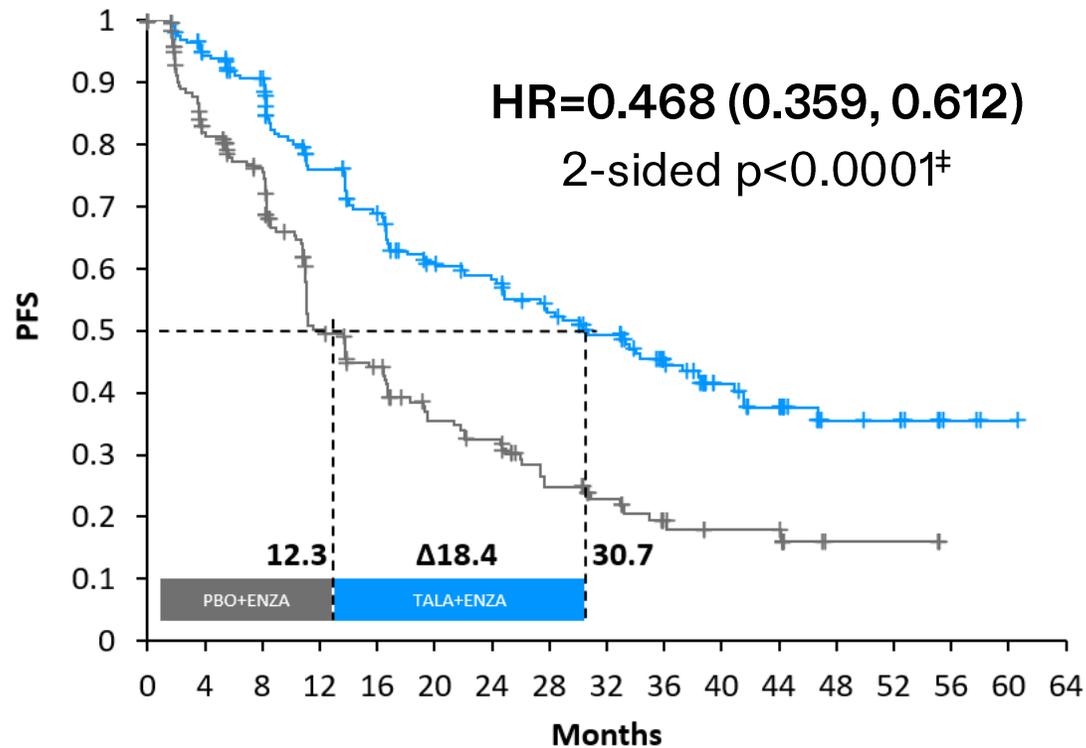
**Johanna Bendell, MD**

Chief Development Officer  
Oncology Research and Development  
Pfizer Inc.



# Current Indication

TALZENNA<sup>®</sup> (talazoparib) is indicated in combination with enzalutamide for the treatment of adult patients with HRR gene-mutated mCRPC.



<sup>‡</sup> Descriptive p-value at updated analysis.

\* The 2-sided critical OS p-value at the final analysis in September 2024 is 0.024

mCRPC=metastatic castrate resistant prostate cancer.

# Proposed Indication Under Review Today

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**TALZENNA® (talazoparib) is indicated in combination with enzalutamide for the treatment of adult patients with mCRPC**

# Agenda



## Unmet Need

**Pedro Barata, MD, MSc, FACP**

Associate Professor of Medicine  
Case Western Reserve University  
School of Medicine  
Case Comprehensive Cancer Center  
Cleveland, Ohio



## Efficacy and Safety

**Dana Kennedy, PharmD, BCOP**

Vice President,  
GU Therapeutic Area Head  
Oncology Research and Development  
Pfizer Inc.



## Clinical Perspective

**Neeraj Agarwal, MD, FASCO**

Professor of Medicine & Presidential  
Endowed Chair of Cancer Research  
Huntsman Cancer Institute  
University of Utah

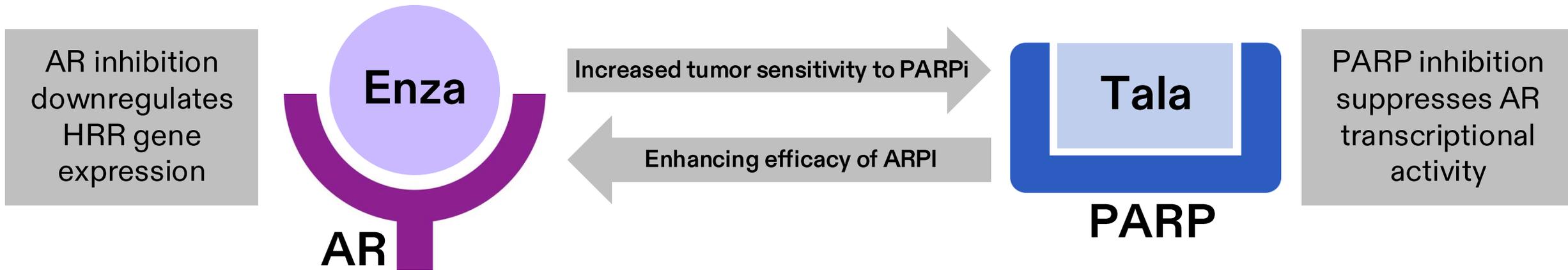


## GU Medical Oncologist

**Alicia K. Morgans, MD, MPH, FASCO**

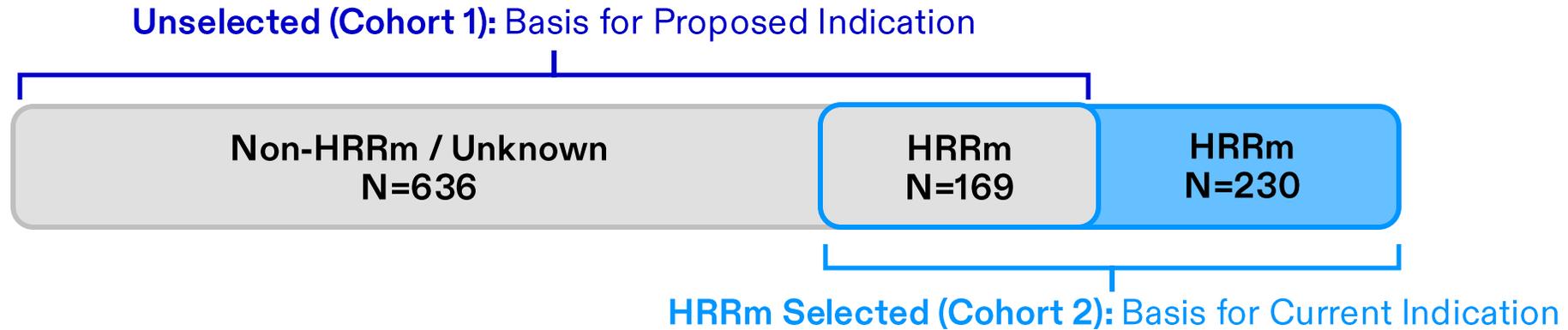
Associate Professor  
Harvard Medical School  
Director, Survivorship Program  
Dana-Farber Cancer Institute

# Biological Rationale Differentiates Talazoparib and Enzalutamide Combination in Unselected mCRPC



**The Co-inhibition of AR and PARP Sensitizes Cancer Cells to Both Treatments, Making the Combination More Effective Than Either Agent Alone—With or Without HRR Gene Alterations**

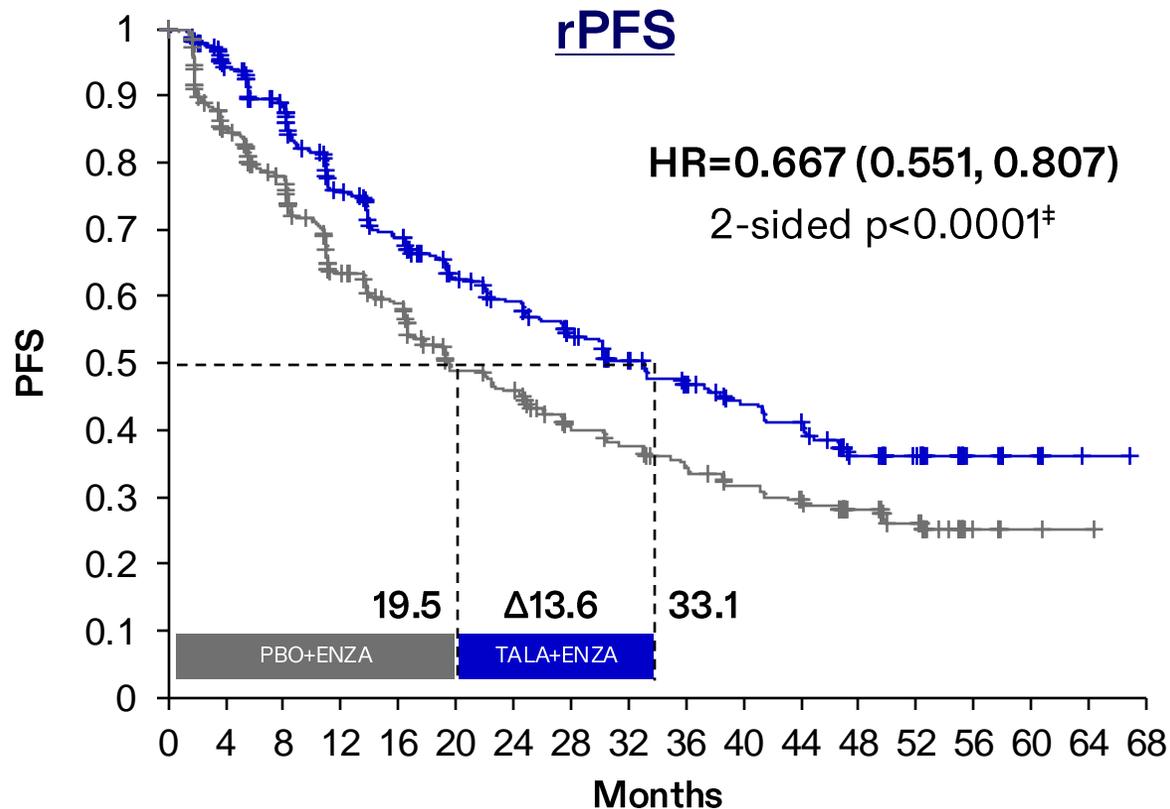
# TALAPRO-2 Designed to Evaluate Talazoparib and Enzalutamide in Selected and Unselected mCRPC Populations



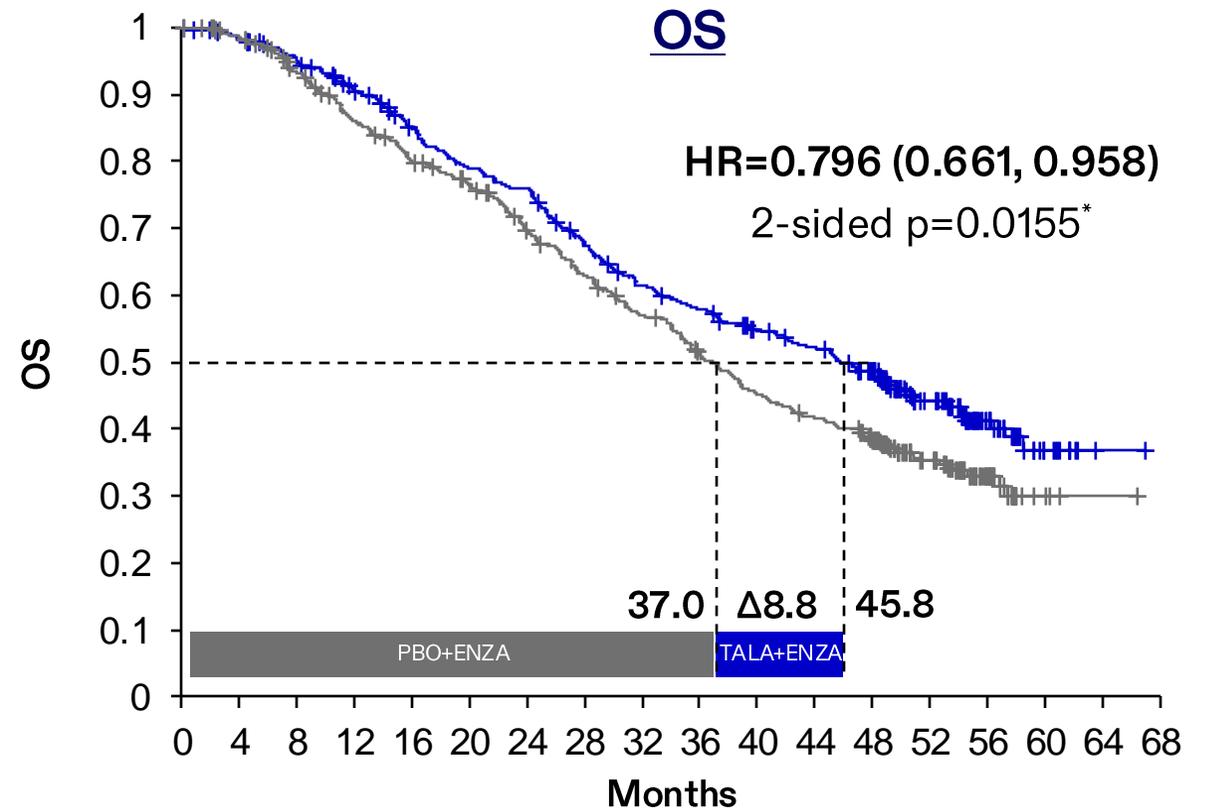
HRRm=homologous recombination repair gene mutated; OS=overall survival; rPFS=radiographic progression-free survival.

Unselected (Cohort 1)

# rPFS and OS Benefit in Unselected Patients (Proposed Indication)



Patients at risk									
402	318	228	180	138	108	63	13	1	
403	273	180	128	92	72	44	5	1	



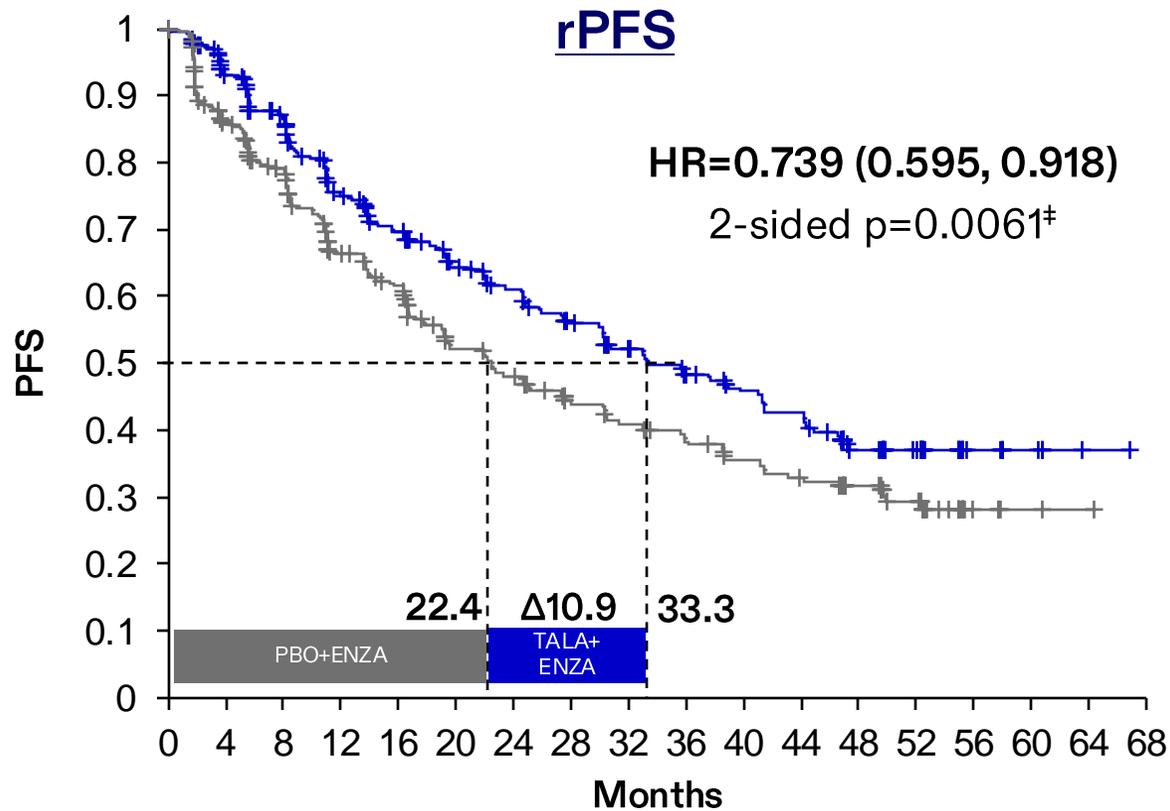
Patients at risk									
402	371	319	285	226	193	158	42	1	
403	362	305	257	207	163	127	33	1	

‡ Descriptive p-value at updated analysis.

\* The 2-sided critical p-value for OS at the final analysis in September 2024 is 0.022

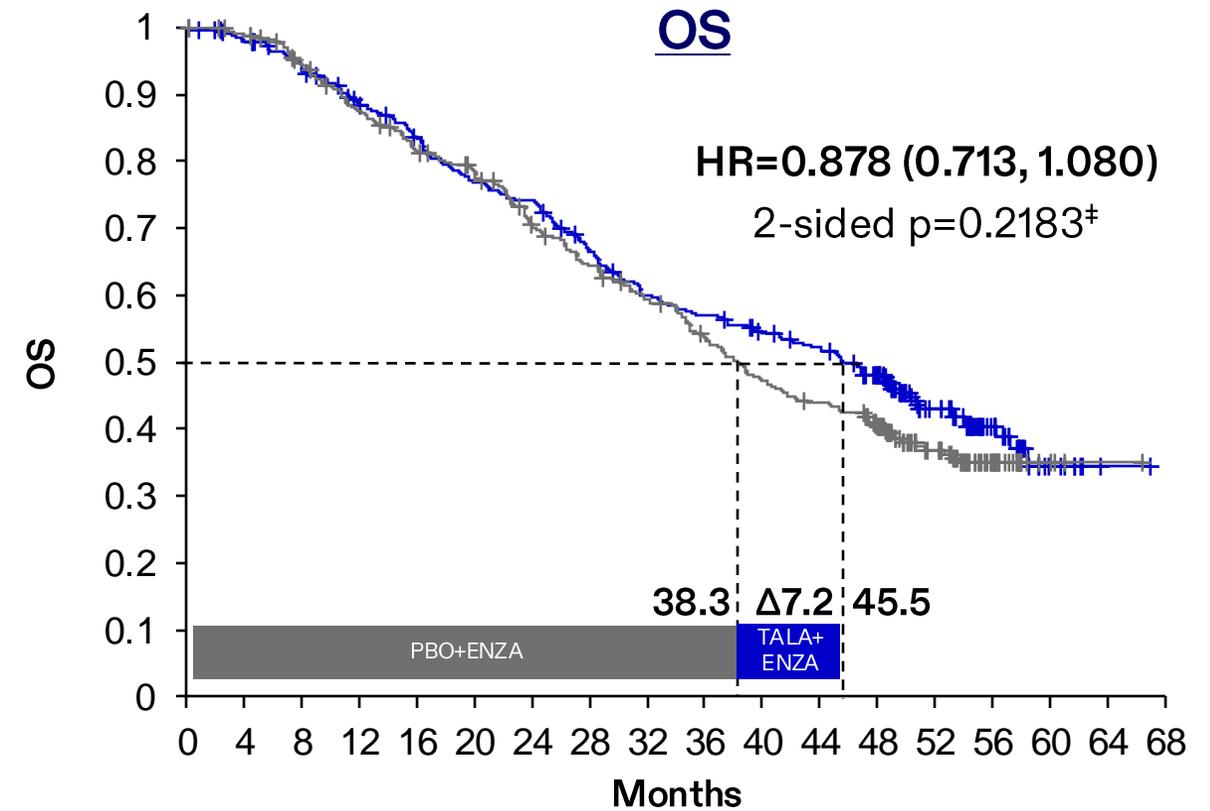
Non-HRRm/Unknown Subgroup (Cohort 1)

# Prospectively Defined Stratified Non-HRRm Subgroup



Patients at risk

317	243	179	143	111	89	51	10	1
319	219	151	108	81	65	42	5	1



Patients at risk

317	288	249	222	176	155	125	34	1
319	292	248	208	172	136	106	28	1

<sup>‡</sup> Compared to nominal level 0.05 without multiplicity adjustment.

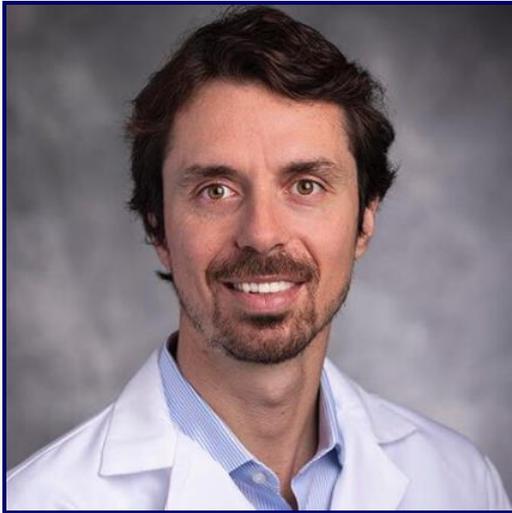
# Benefit-Risk Assessment

There remains an unmet need in patients with mCRPC, who are often symptomatic with advanced disease

There is a well-documented scientific rationale for the differentiated MOA of the combination of talazoparib and enzalutamide in non-HRRm tumors

Efficacy data in patients with non-HRRm mCRPC are clinically meaningful and reflect a true treatment effect that is unlikely due to chance alone

Anemia is well managed with dose modifications, and there were no clinically meaningful differences between treatment arms in patient reported outcomes



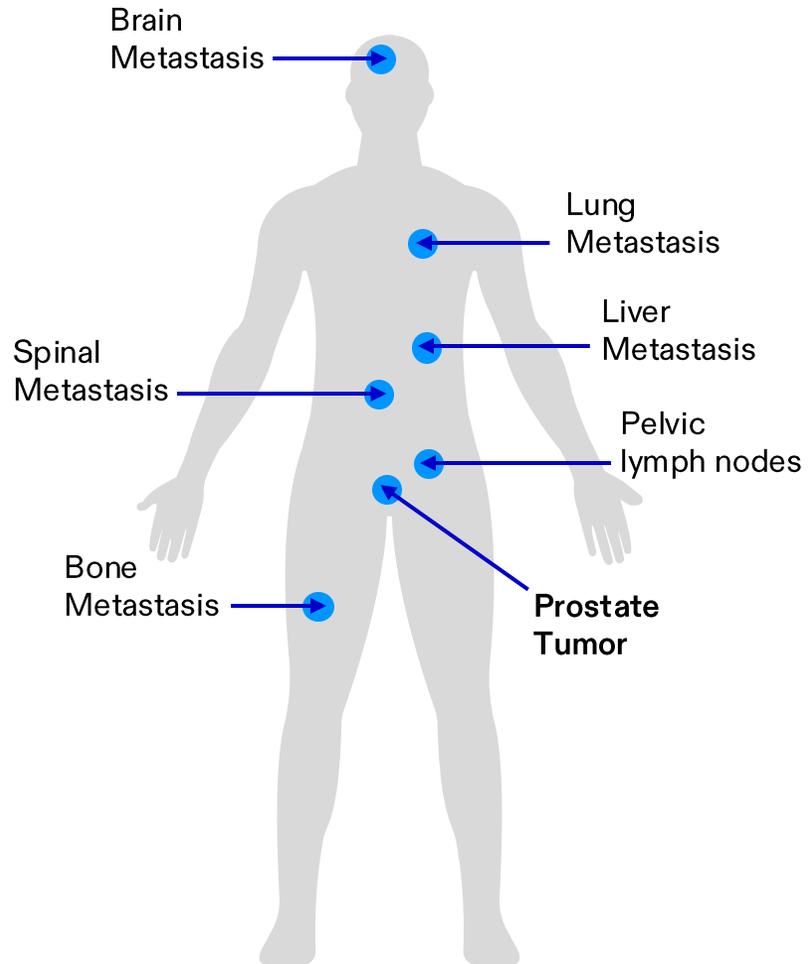
# Treatment Landscape

**Pedro Barata, MD, MSc, FACP**

Associate Professor of Medicine  
Case Western Reserve University School of Medicine  
Case Comprehensive Cancer Center  
Cleveland, Ohio



# mCRPC is an Aggressive and Fatal Disease



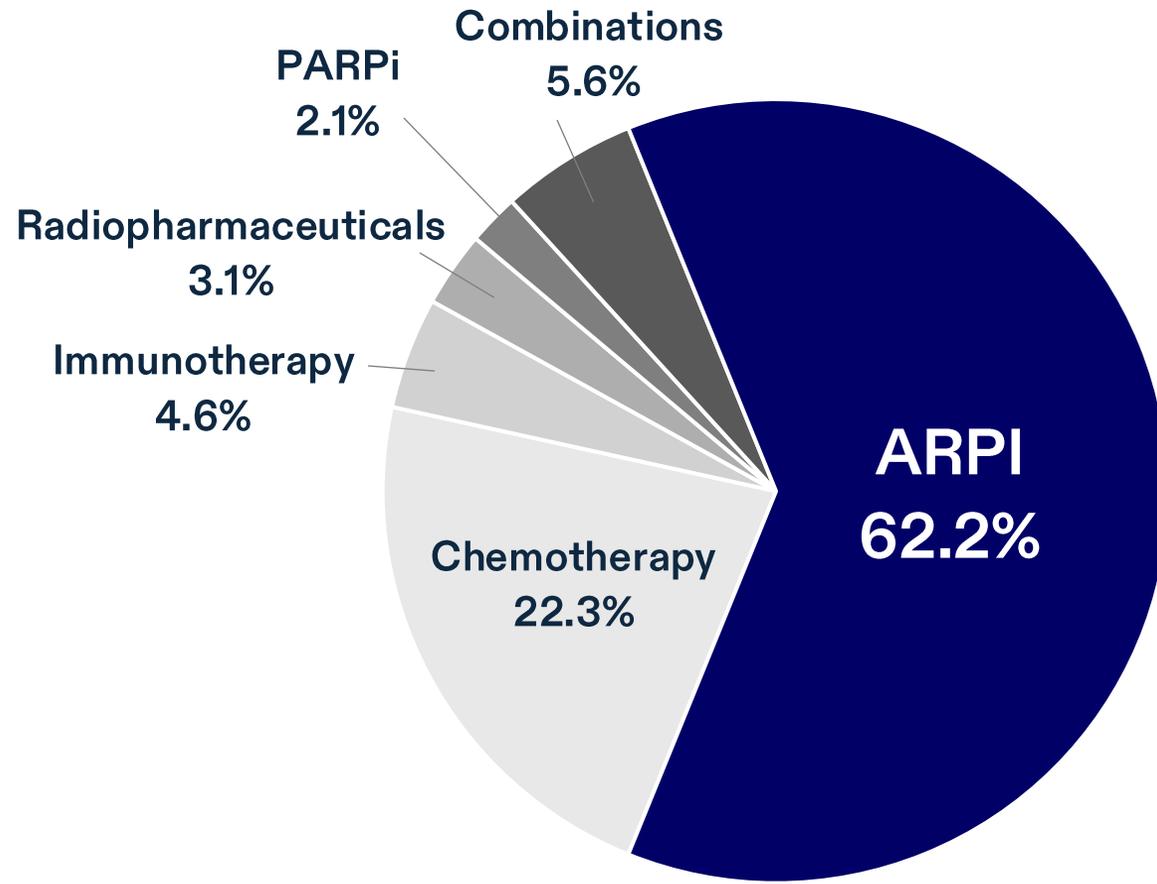
<b>Potential metastatic sites</b>	Common ( $\geq 80\%$ ): Pelvic lymph nodes and bone Uncommon ( $\leq 11\%$ ): Distant lymph nodes, liver, lungs, brain and dura <sup>1</sup>
<b>Disease symptoms</b>	Urinary incontinence, decreased libido, bone pain, fatigue, weight loss, and weakness <sup>1</sup>
<b>Quality of life</b>	Depression, anxiety, decreased physical and emotional functioning <sup>2,3</sup>
<b>Probability of being alive 5 years after diagnosis</b>	<40% <sup>4</sup>
<b>Treatment priorities</b>	Delay disease progression, delay decline in QoL, prolong survival <sup>5</sup>

QoL=quality of life.

1. Rebello RJ, et al. *Nat Rev Dis Primers*. 2021;7(1):9; 2. Rönningås U, et al. *BMC Palliat Care*. 2024;23(1):80; 3. Fallowfield L, et al. *Nat Rev Clin Oncol*. 2016;13:643-650; 4. American Cancer Society. Cancer Facts & Figures 2025;

5. George DJ, et al. *Cancer Med*. 2023;(5):6040-6055.

# Common First-Line Therapies for mCRPC

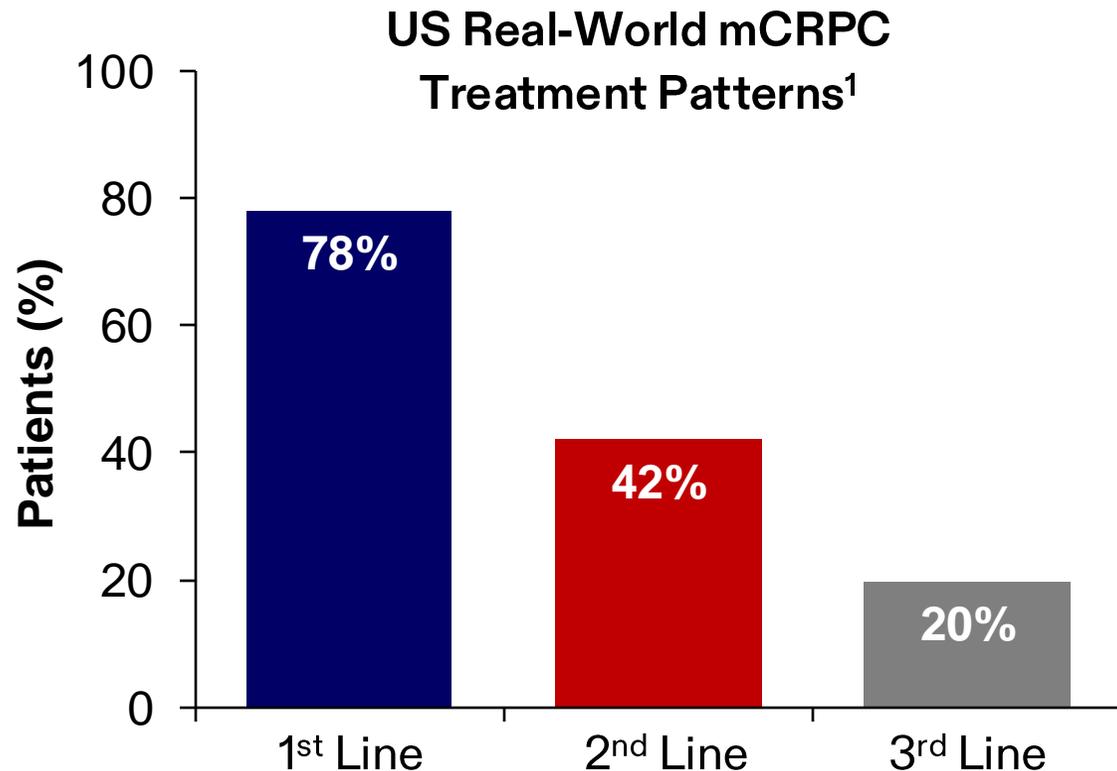


- Genetic testing identifies important biomarkers in subpopulations of patients with predictive and prognostic value (eg, HRRm<sup>1,2</sup>; TP53/Rb1/PTEN<sup>3</sup>; MSI/dMMR<sup>4,5</sup>)
- Most mCRPC patients do not have a known predictive biomarker and are commonly treated with ARPIs<sup>6</sup>

ARPI=androgen receptor pathway inhibitor.

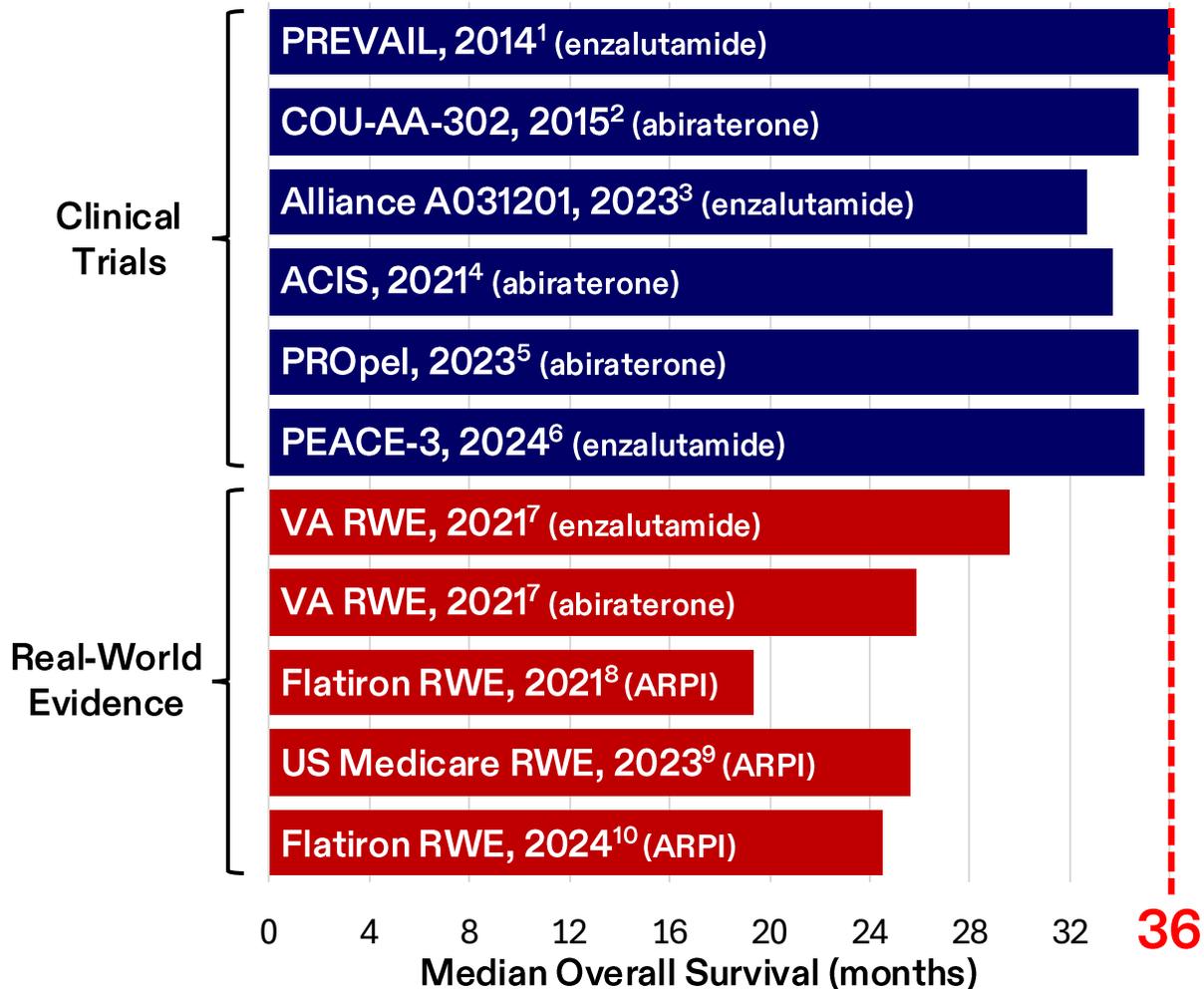
1. Azad AA, et al. *Eur J Cancer*. 2024;213:115078; 2. Hussain M, et al. *N Engl J Med*. 2020;383(24):2345-2357; 3. Corn PG, et al. *Lancet Oncol*. 2019;20(10):1432-1443; 4. Abida W, et al. *JAMA Oncol*. 2019;5(4):471-478; 5. Barata P, et al. *J Immunotherapy Cancer*. 2020;8(2):e001065; 6. Data from Raval AD, et al. *J Clin Oncol*. 2025;43(5),99-99.

# First-Line Therapy is the Best Chance to Improve Outcomes



- **<50%** of mCRPC patients receive more than 1 line of therapy<sup>1</sup>
- **Optimal first-line therapy** is critical to improve outcomes of mCRPC patients

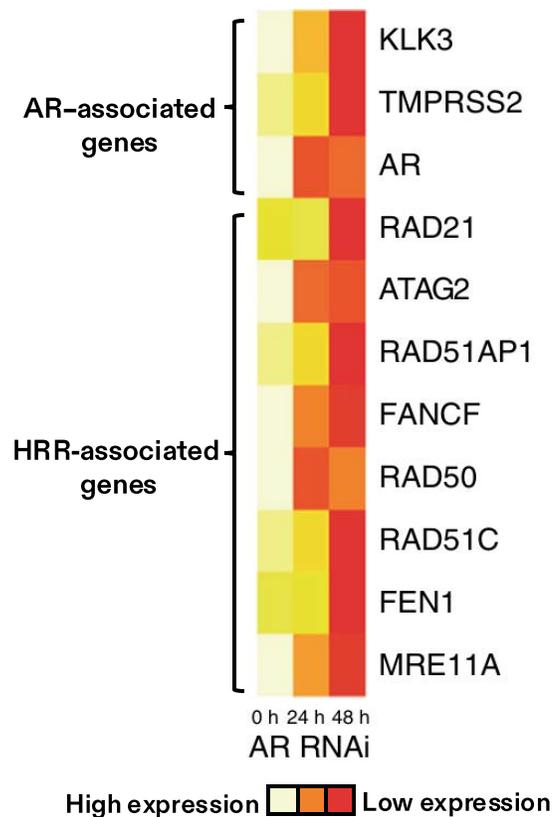
# Survival Outcomes of Patients with mCRPC Receiving ARPIs



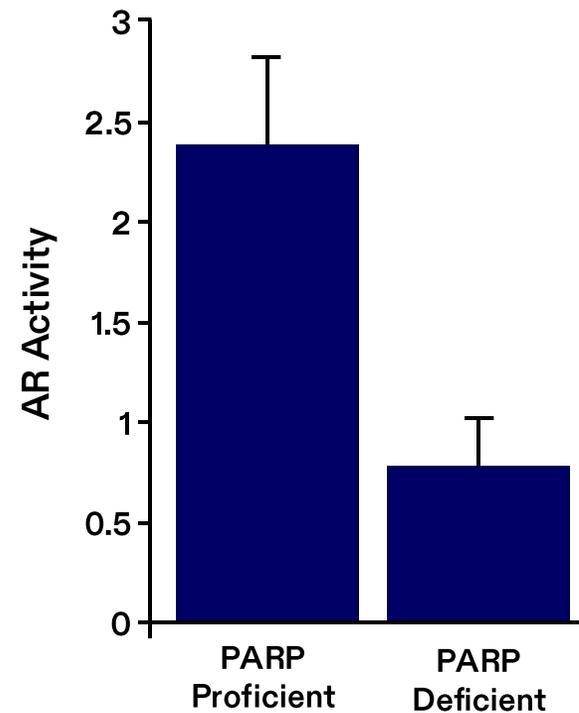
- Clinical trials over the past decade consistently show median OS **<36 months**<sup>1-6</sup>
- Real-world median OS is **lower**<sup>7-10</sup>

# Biological Rationale for Talazoparib and Enzalutamide Combination in Unselected mCRPC

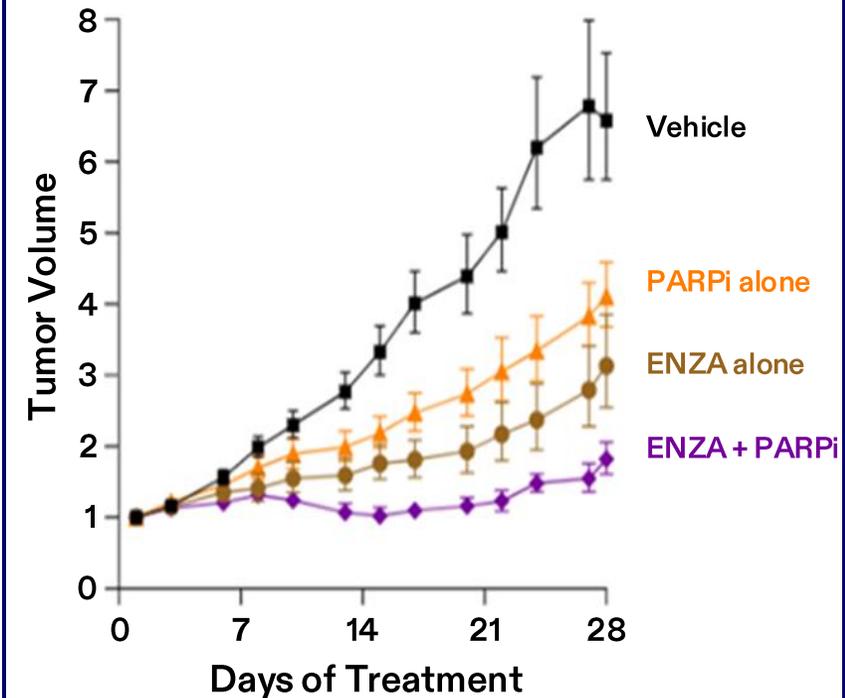
Inhibition of AR gene expression decreases expression of DNA repair genes<sup>1</sup>



Inhibition of PARP decreases androgen receptor activity<sup>2</sup>

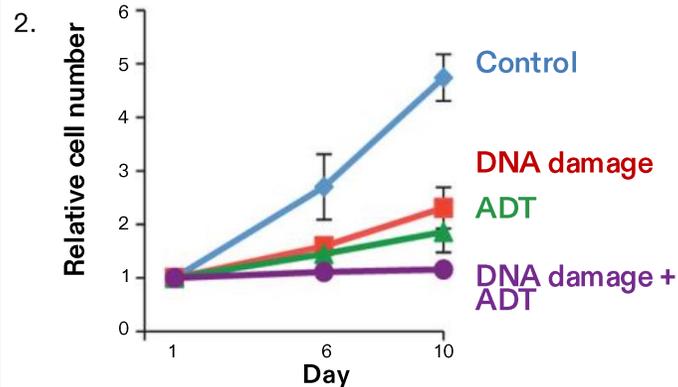
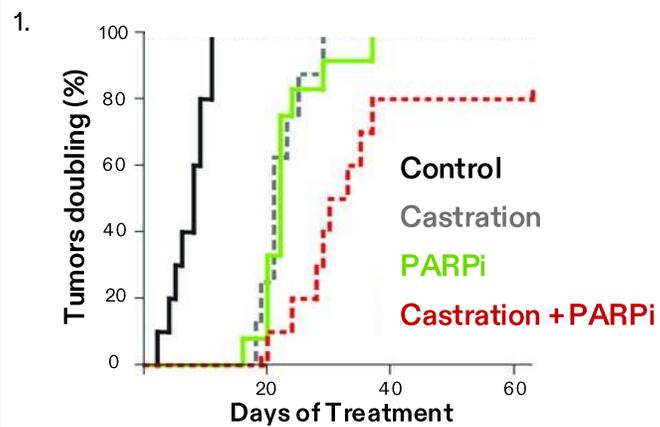


PARPi with enzalutamide inhibits HRR-proficient prostate tumor growth better than either agent alone<sup>3</sup>



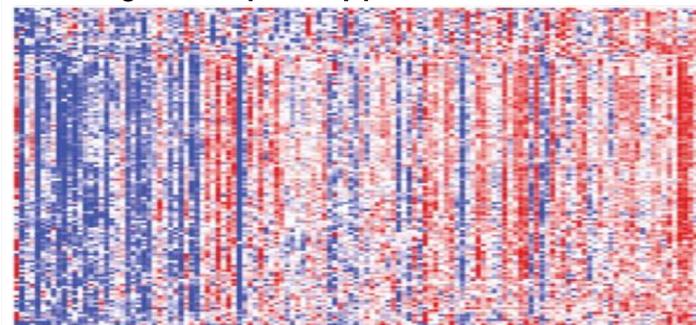
# Biology Elucidated Over a Decade of Research

## Identification of HRR and AR pathway interaction

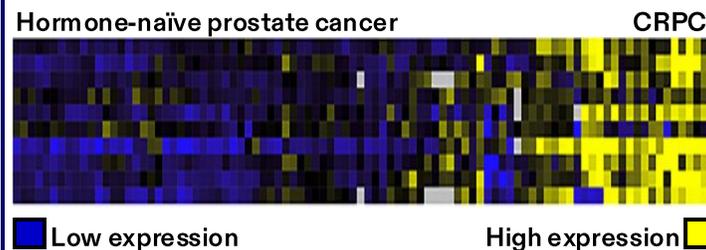


## Association of AR pathway activity and HRR gene expression in human prostate cancer

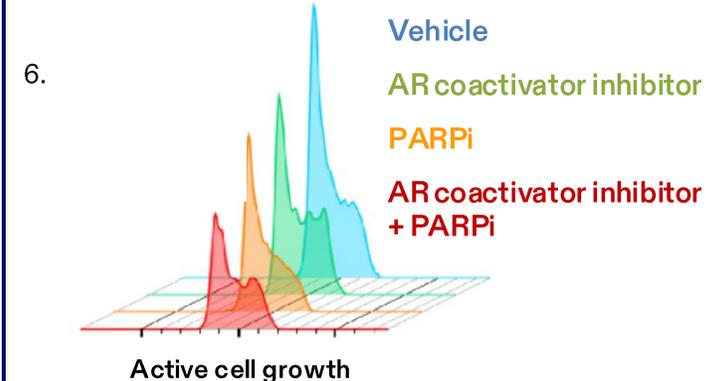
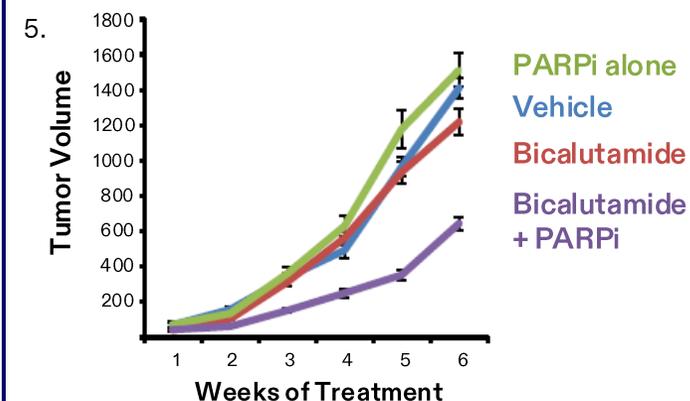
### 3. Upregulation of AR-associated DNA repair genes in primary prostate cancers



### 4. Upregulation of HRR gene expression in CRPC



## Therapeutic co-inhibition in HRR-proficient animal models



# Conclusions

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**Overall survival of patients with mCRPC is less than 3 years; progress is needed**

**First chance to treat is the best opportunity to improve outcomes of patients with mCRPC**

**Enzalutamide is a backbone of metastatic prostate cancer treatment with a well-established safety profile, supporting new combination strategies in this setting**

**Strong biologic rationale for the combination of enzalutamide + talazoparib, including tumors without HRR mutations, due to cross-talk between the two pathways**

**Patients and physicians should have access to life-prolonging therapies**



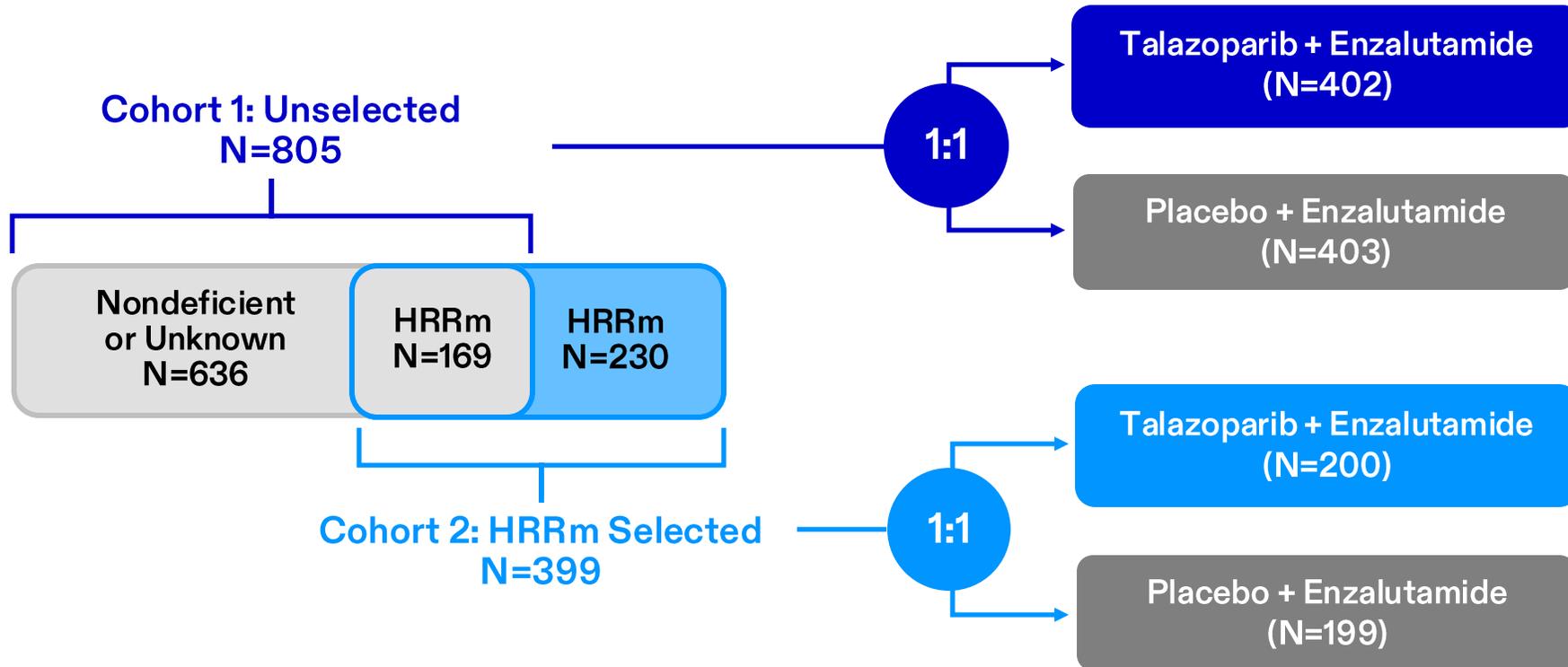
# Efficacy and Safety

**Dana Kennedy, PharmD, BCOP**

Vice President, GU Therapeutic Area Head  
Oncology Research and Development  
Pfizer Inc.



# TALAPRO-2: Trial Design in 1L mCRPC



## Primary endpoint

- rPFS by BICR

## Key secondary endpoint

- OS (alpha protected)

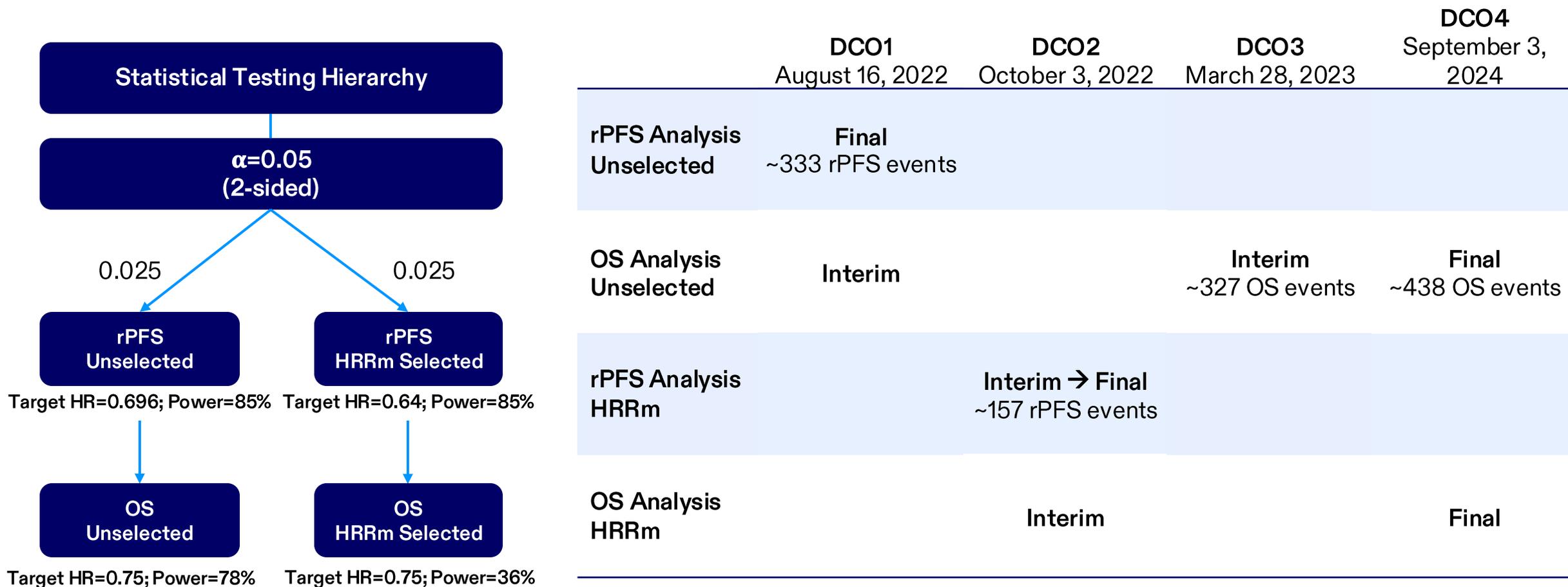
## Other secondary endpoints

- Time to cytotoxic chemotherapy
- PFS2
- ORR
- PROs
- Safety

## Stratification Factors

- HRR gene alteration status (deficient vs non-deficient or unknown)<sup>a</sup>
- Prior abiraterone<sup>b</sup> or docetaxel for CSPC (yes vs no)

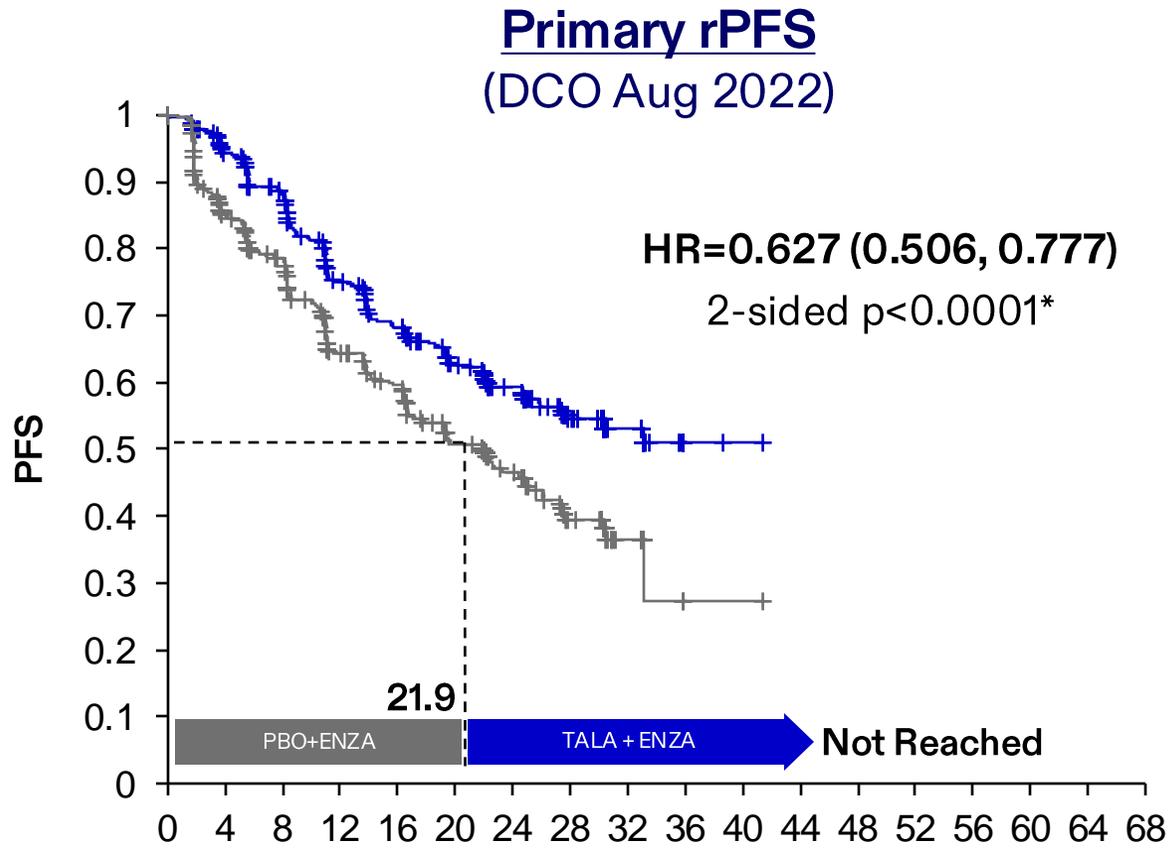
# TALAPRO-2: Clinical Assumptions and Statistical Analysis



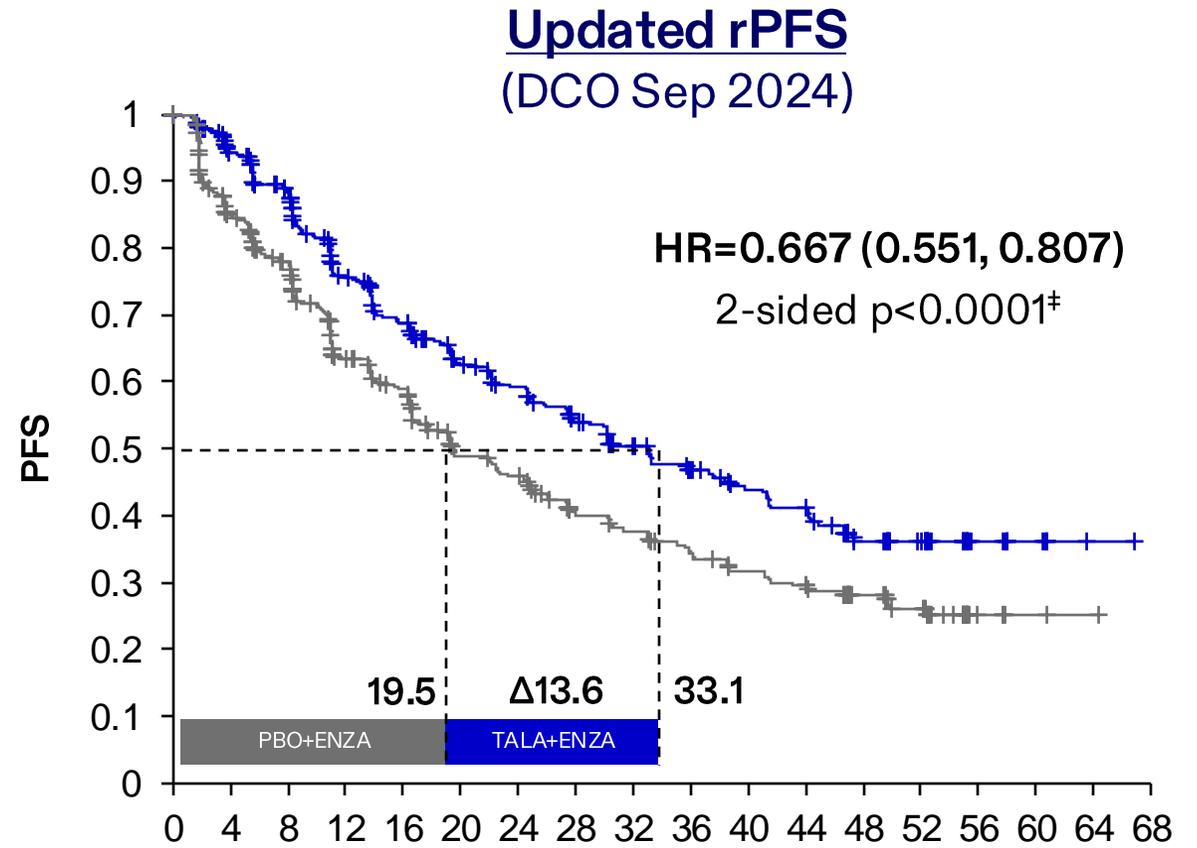
Efficacy boundaries at interim and final OS analyses were determined based on the O'Brien Fleming alpha spending function. Subgroup analyses in patients without HRRm were pre-specified without multiplicity adjustment.

Unselected (Cohort 1)

# Statistically Significant and Clinically Meaningful rPFS Benefit in Unselected Patients (Proposed Indication)



Patients at risk	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68
PBO+ENZA	402	318	226	136	29	1	0	0	0									
TALA+ENZA	403	272	179	96	14	1	0	0	0									



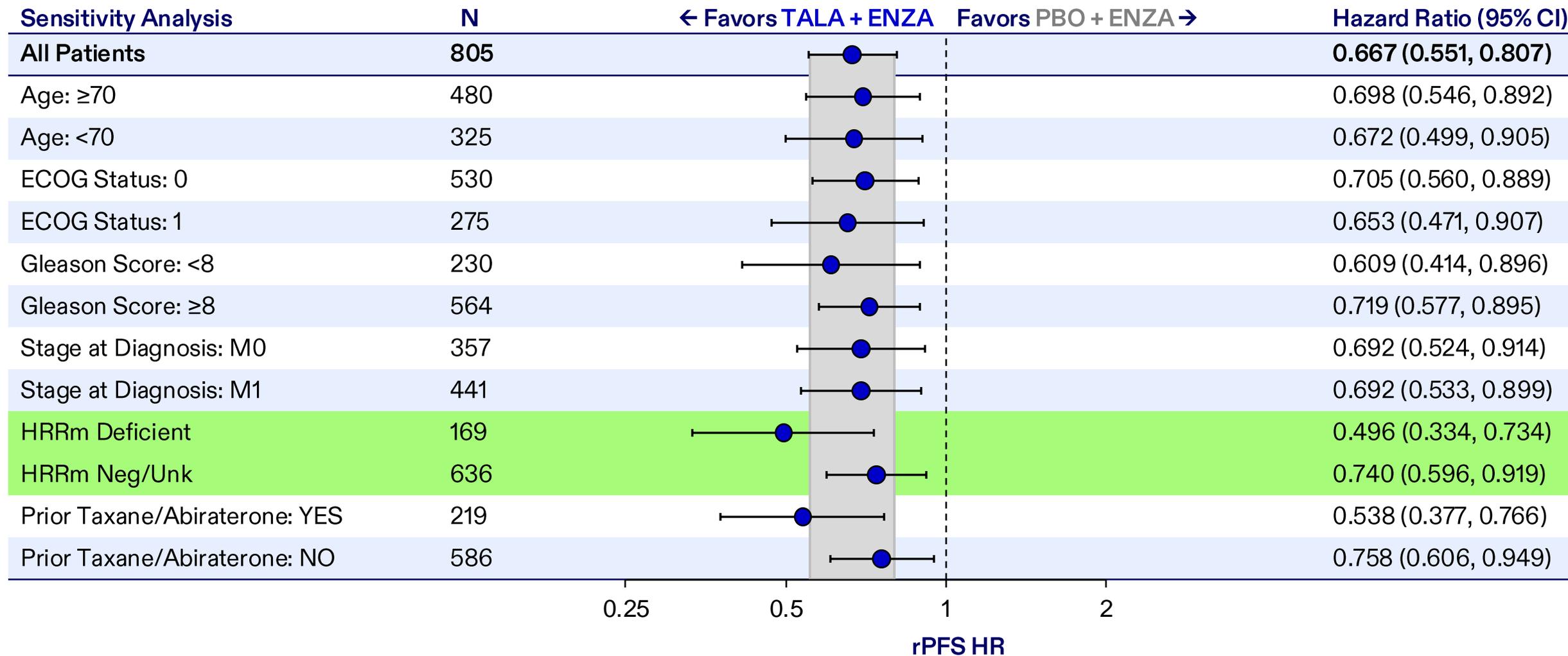
Patients at risk	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68
PBO+ENZA	402	318	228	180	138	108	63	13	1									
TALA+ENZA	403	273	180	128	92	72	44	5	1									

\* The 2-sided critical p-value for rPFS at the final analysis in August 2022 is 0.025

‡ Descriptive p-value at updated analysis.

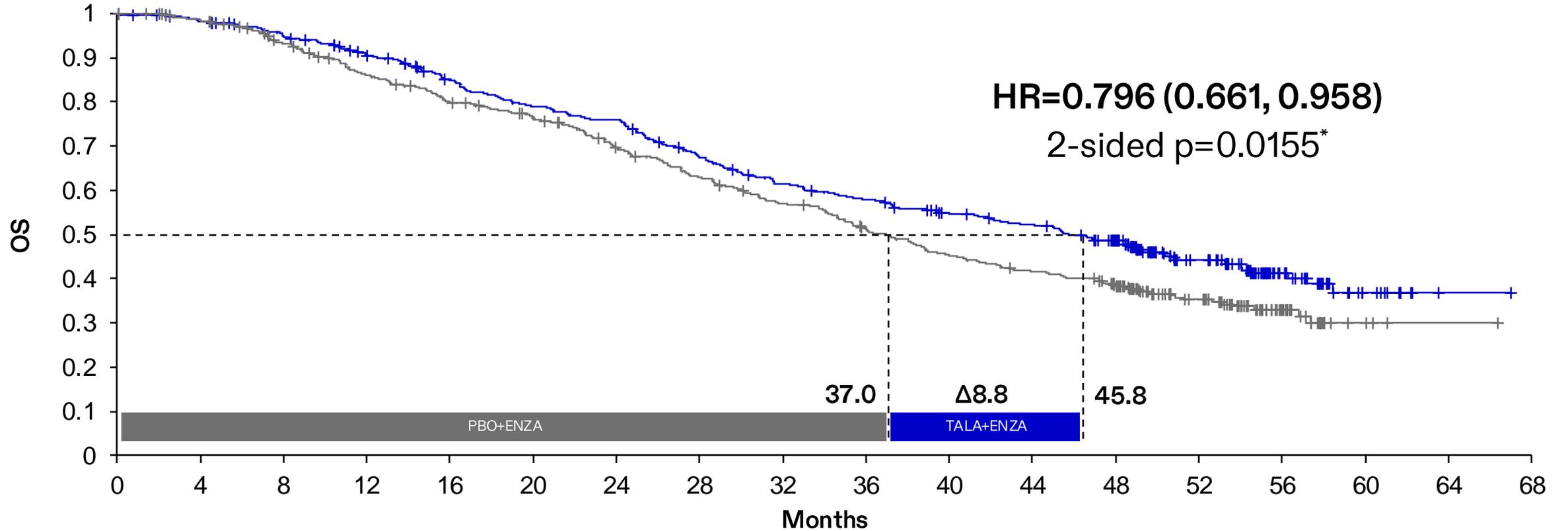
Unselected (Cohort 1)

# Consistent rPFS Treatment Effect in Prespecified Subgroups



Unselected (Cohort 1)

# Overall Survival Benefit in Unselected Patients (Proposed Indication)



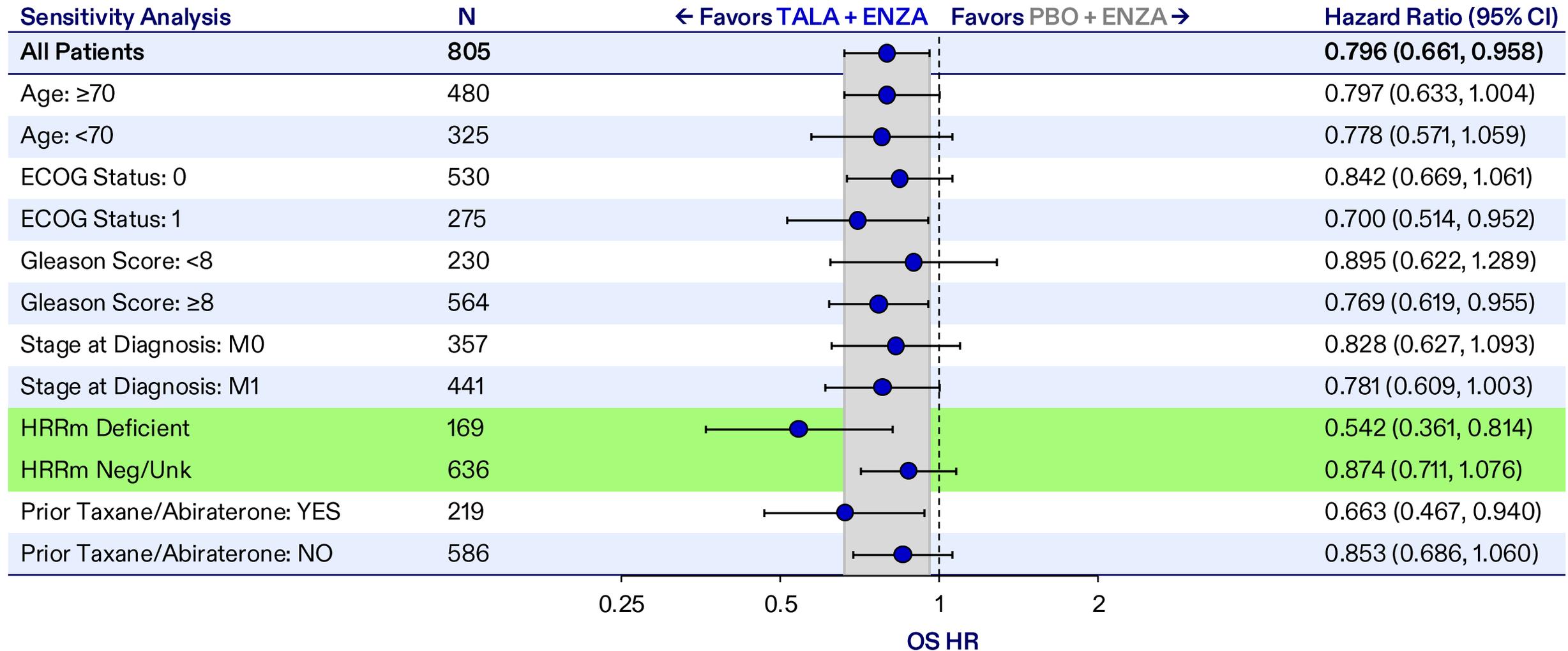
Patients at risk

402	390	371	347	319	296	285	250	226	212	193	183	158	89	42	11	1	0
403	391	362	331	305	287	257	231	207	183	163	148	127	77	33	4	1	0

\* The 2-sided critical p-value for OS at the final analysis in September 2024 is 0.022

Unselected (Cohort 1)

# Favorable Overall Survival Across Prespecified Subgroups



Unselected (Cohort 1)

# Meaningful Improvement in Secondary Endpoints

	Unselected (N=805)		HR (95% CI)
	TALA + ENZA (N=402)	PBO + ENZA (N=403)	
Confirmed PSA 50 response	84.6%	72.2%	
Confirmed ORR per RECIST 1.1	60.5% <sup>a</sup>	43.8% <sup>b</sup>	
Confirmed CR	37.0% <sup>c</sup>	20.8% <sup>d</sup>	
Median time to (months):			
PSA progression	28.1	17.5	0.69 (0.57, 0.84)
First subsequent therapy	NR	28.5	0.57 (0.47, 0.71)
First cytotoxic chemotherapy	NR	56.1	0.57 (0.45, 0.72)
PFS2	43.4	34.2	0.79 (0.66, 0.94)

<sup>a</sup> Value represents 72/119 patients.

<sup>b</sup> Value represents 57/130 patients.

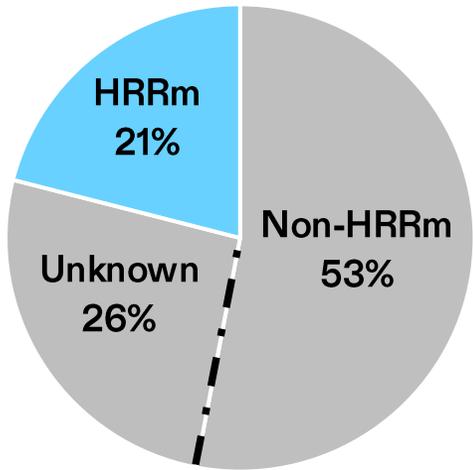
<sup>c</sup> Value represents 44/119 patients.

<sup>d</sup> Value represents 27/130 patients.

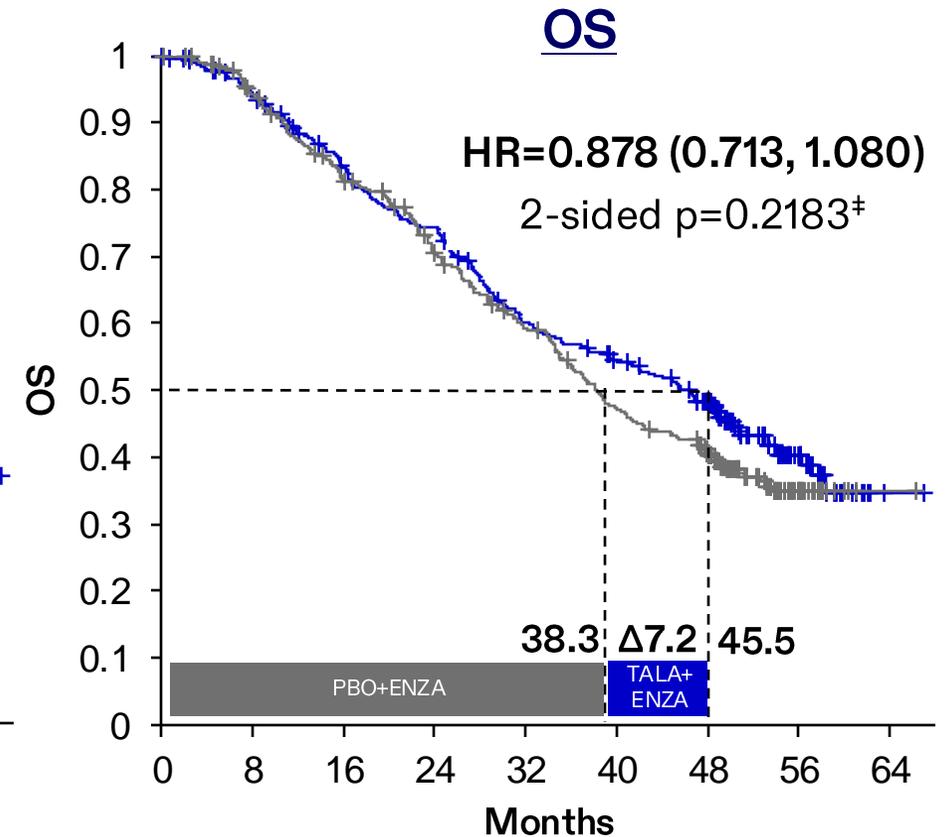
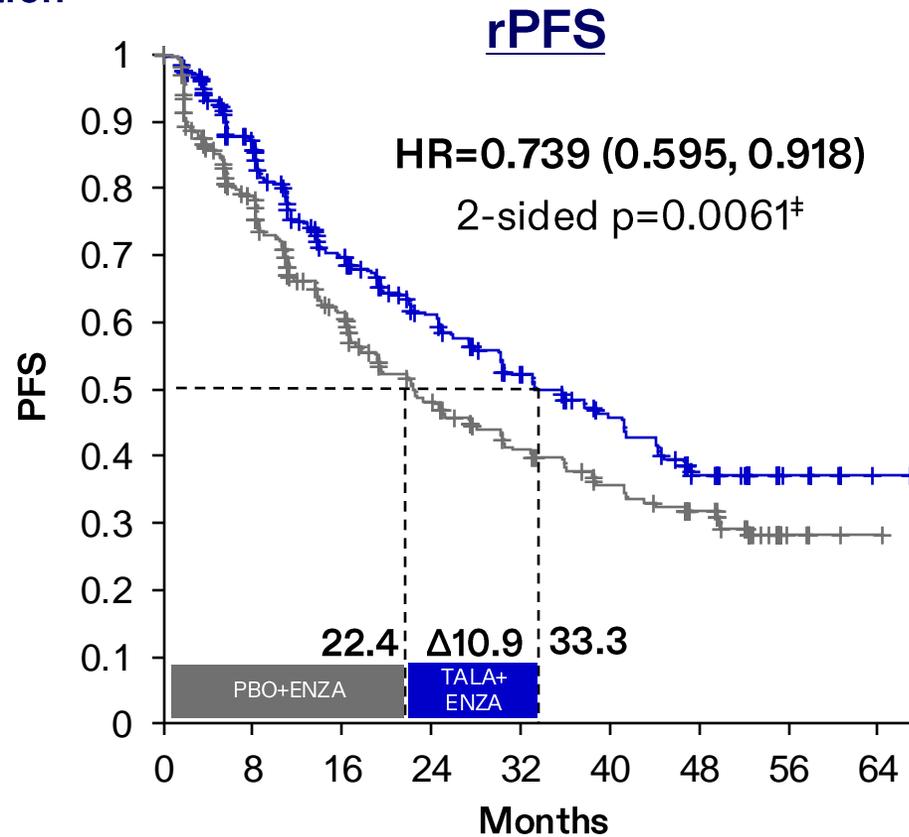
Non-HRRm/Unknown Subgroup (Cohort 1)

# PROSPECTIVE Genomic Stratified Subgroups

**PROSPECTIVE HRR Stratification (By Either Test)**



Primarily Informed by Tumor Testing

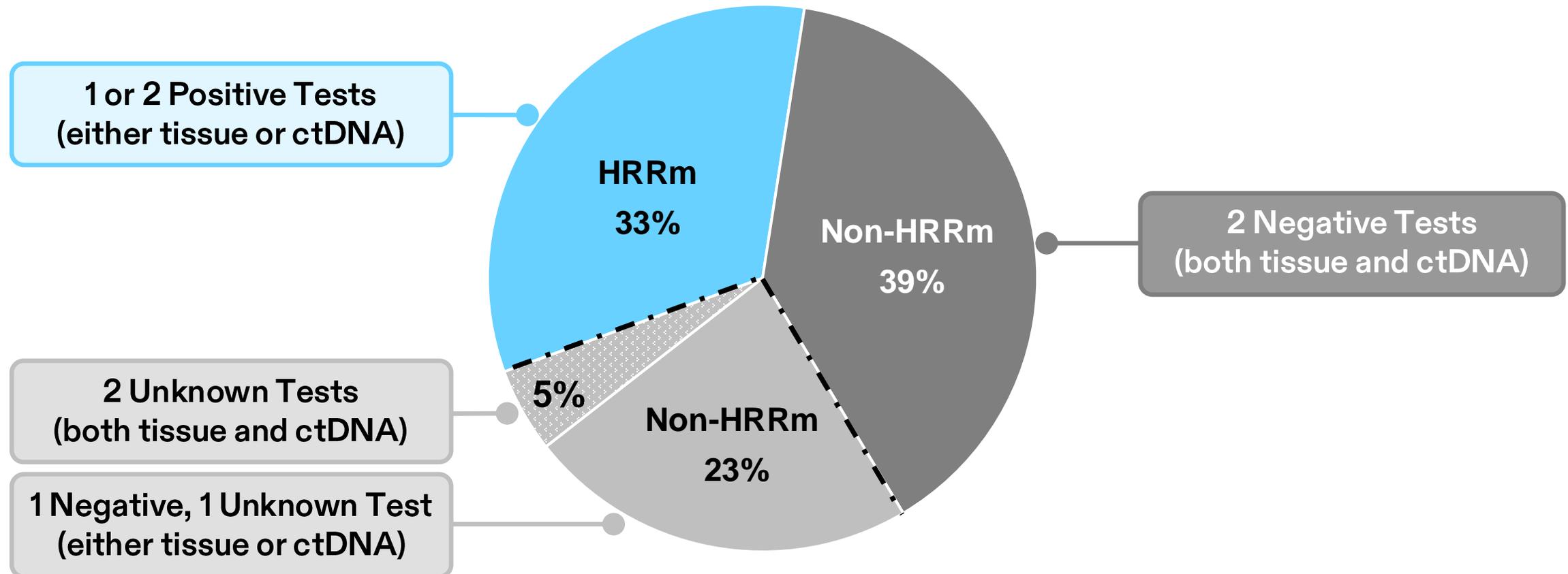


<sup>‡</sup> Compared to nominal level 0.05 without multiplicity adjustment.

Unselected (Cohort 1)

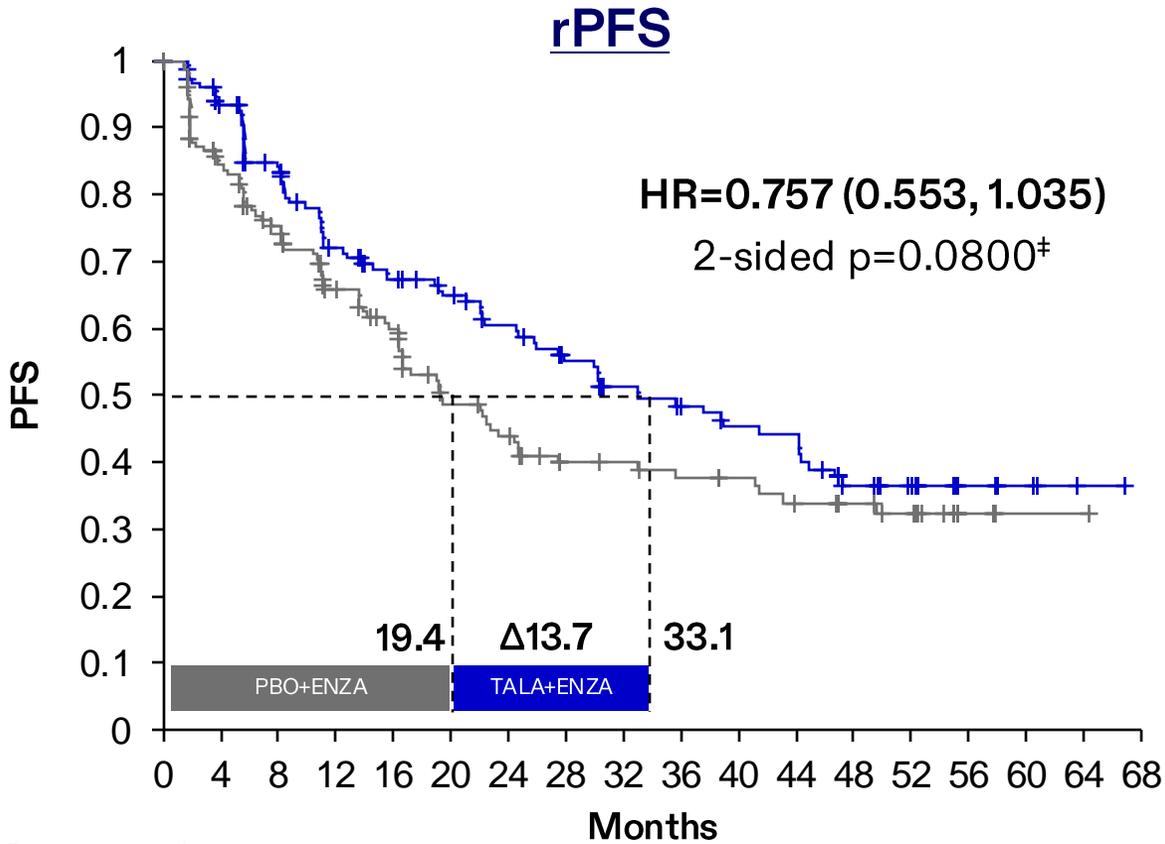
# Exploratory Genomic Subgroups: Stringent Definition

ALL Baseline Tumor and ctDNA Samples

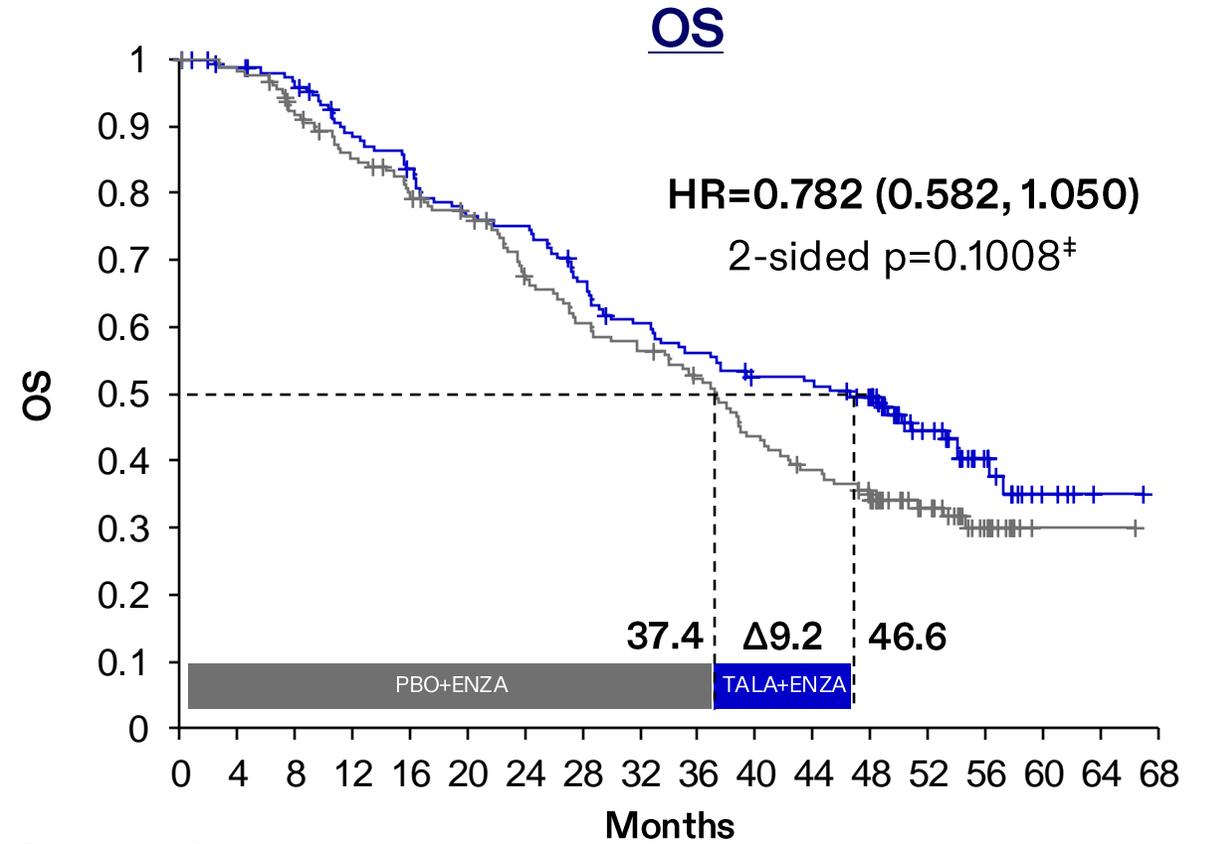


No Detectable HRRm by ctDNA and Tissue (Cohort 1)

# Non-HRRm Subgroup: Treatment Effect Favors Combination



Patients at risk	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68
PBO+ENZA	154	116	84	69	52	43	25	7	1									
TALA+ENZA	160	105	72	47	35	30	21	4	1									



Patients at risk	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68
PBO+ENZA	154	142	120	108	85	72	64	19	1									
TALA+ENZA	160	143	120	97	81	61	44	14	1									

‡ Compared to nominal level 0.05 without multiplicity adjustment.

No Detectable HRRm by ctDNA and Tissue (Cohort 1)

## Non-HRRm Subgroup: Improvement in Secondary Endpoints

	No HRRm by Two Tests (N=314)		HR (95% CI)
	TALA + ENZA (N=154)	PBO + ENZA (N=160)	
Confirmed PSA 50 response	84.3%	71.2%	
Confirmed ORR per RECIST 1.1	54.0% <sup>a</sup>	35.7% <sup>b</sup>	
Confirmed CR	32.0% <sup>c</sup>	14.3% <sup>d</sup>	
Median time to (months):			
PSA progression	28.6	17.5	0.78 (0.56, 1.08)
First subsequent therapy	NR	25.6	0.49 (0.34, 0.69)
First cytotoxic chemotherapy	NR	36.2	0.40 (0.27, 0.60)
PFS2	44.1	35.0	0.75 (0.56, 1.00)

<sup>a</sup> Value represents 27/50 patients.

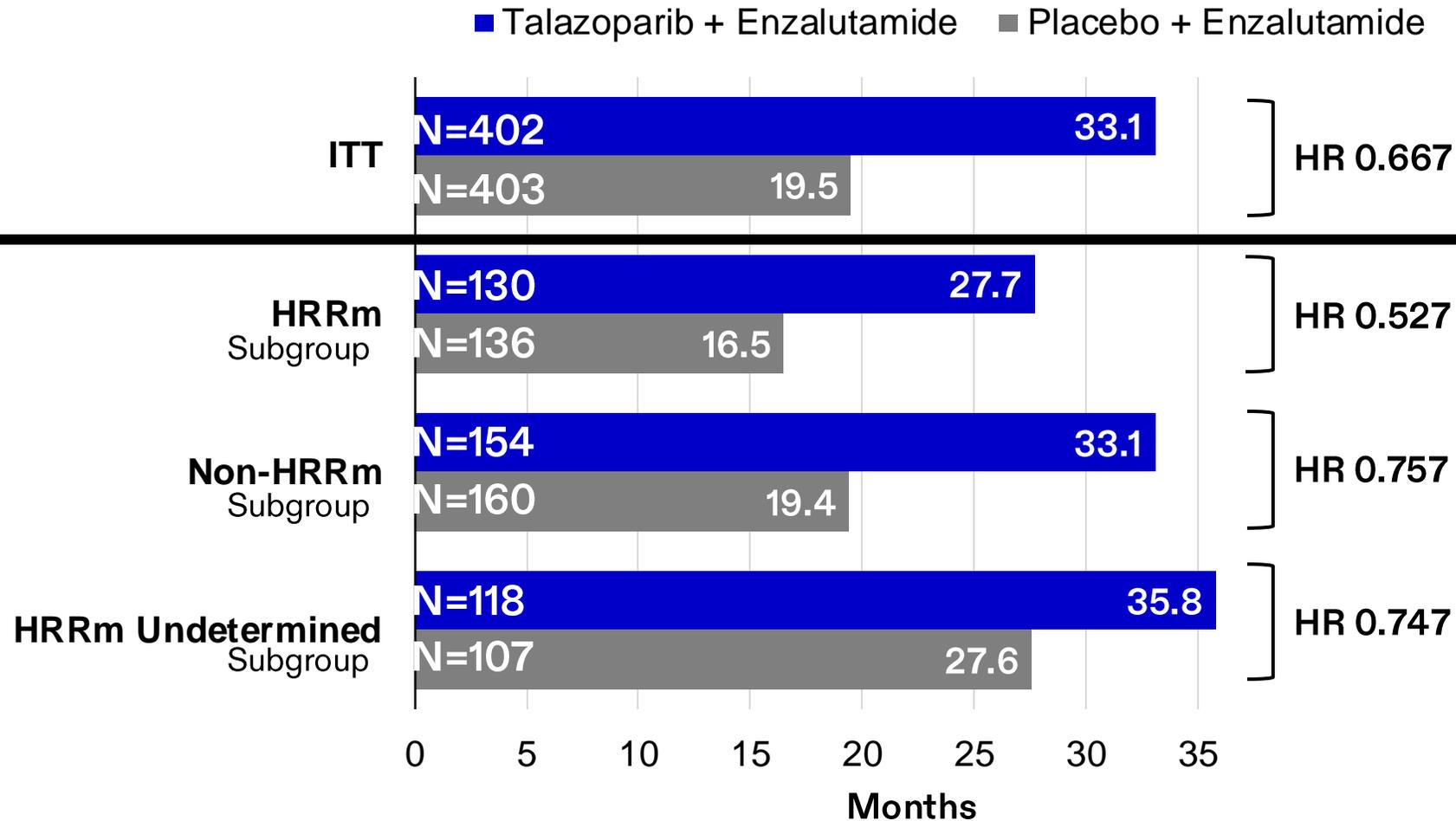
<sup>b</sup> Value represents 20/56 patients.

<sup>c</sup> Value represents 16/50 patients.

<sup>d</sup> Value represents 8/56 patients.

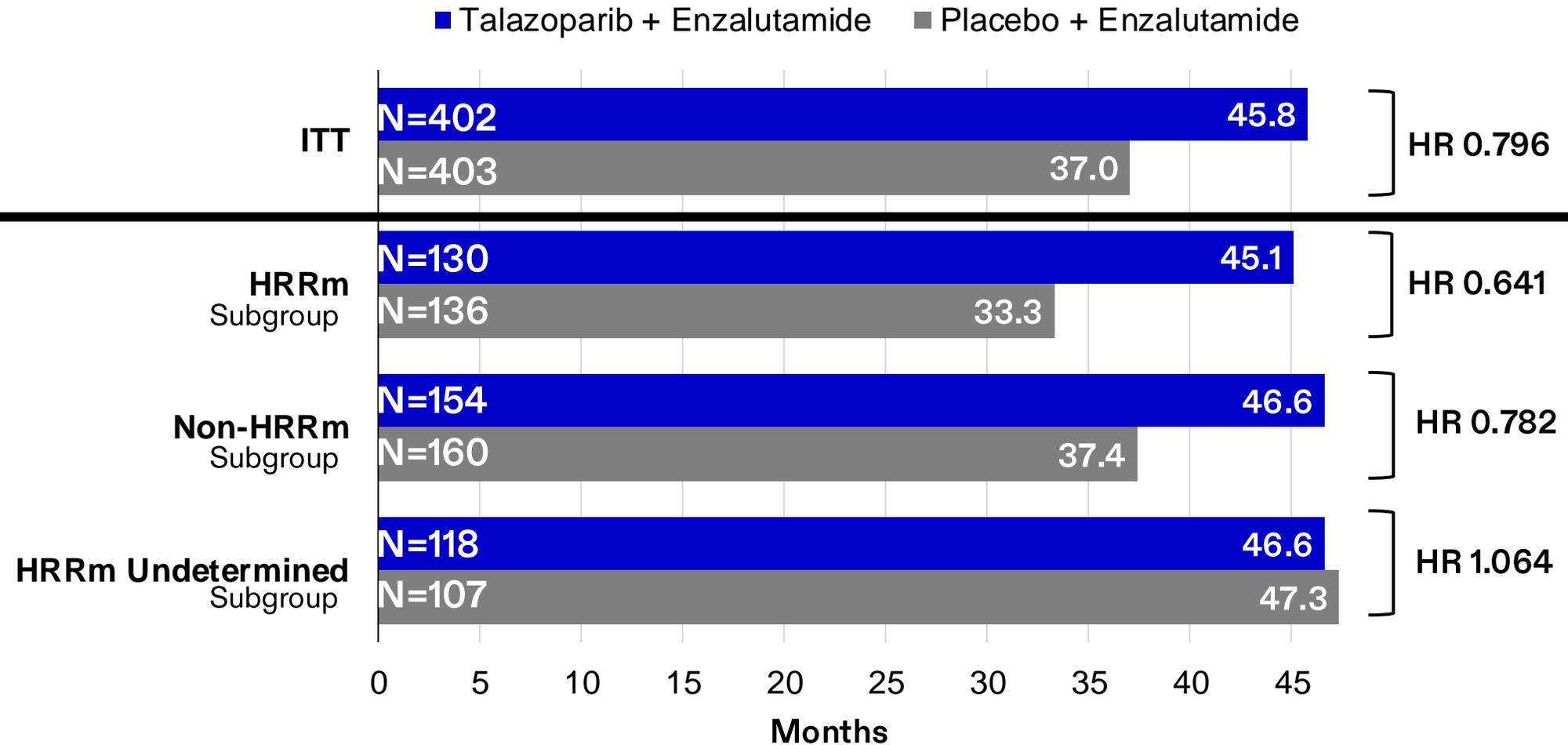
# Unselected (Cohort 1) – Stringent Definition Based on ctDNA and Tissue

## Median rPFS by Subgroup



## Unselected (Cohort 1) – Stringent Definition Based on ctDNA and Tissue

# Median Overall Survival by Subgroup



# Efficacy Summary

**TALAPRO-2 was designed to determine the treatment effect of adding talazoparib to enzalutamide in an unselected mCRPC population**

**Progression-free survival was significantly prolonged with a median improvement of 13.6 months**

- 20% reduction in the risk of death is statistically significant and clinically meaningful
- Favorable treatment effect demonstrated across efficacy endpoints in the non-HRRm subgroup

**The efficacy results from the TALAPRO-2 final analysis demonstrate a meaningful treatment benefit for talazoparib and enzalutamide in a well-defined mCRPC population**

# Safety Profiles of Talazoparib and Enzalutamide Are Well Established

## Safety Profile Includes:

### Talazoparib<sup>a</sup>

- Hematologic (Anemia)  
*[Target Mediated Toxicity]*

### Enzalutamide<sup>b</sup>

- Musculoskeletal pain
- Fatigue

- At initial US approval TALAPRO-2 safety database (2023)
  - 398 patients in **Cohort 1 (Unselected)**
  - 198 patients in **Cohort 2 (HRRm Only)**
- Additional 24 months of follow-up shows consistent safety profile

Unselected (Cohort 1)

# Longer Exposure with Talazoparib and Enzalutamide

	Talazoparib + Enzalutamide (N=398)	Placebo + Enzalutamide (N=401)
<b>Talazoparib / Placebo</b>		
Median duration of treatment	19.8 months	16.1 months
Median relative dose intensity	82%	100%
<b>Enzalutamide</b>		
Median duration of treatment	22.4 months	16.6 months
Median relative dose intensity	99%	100%

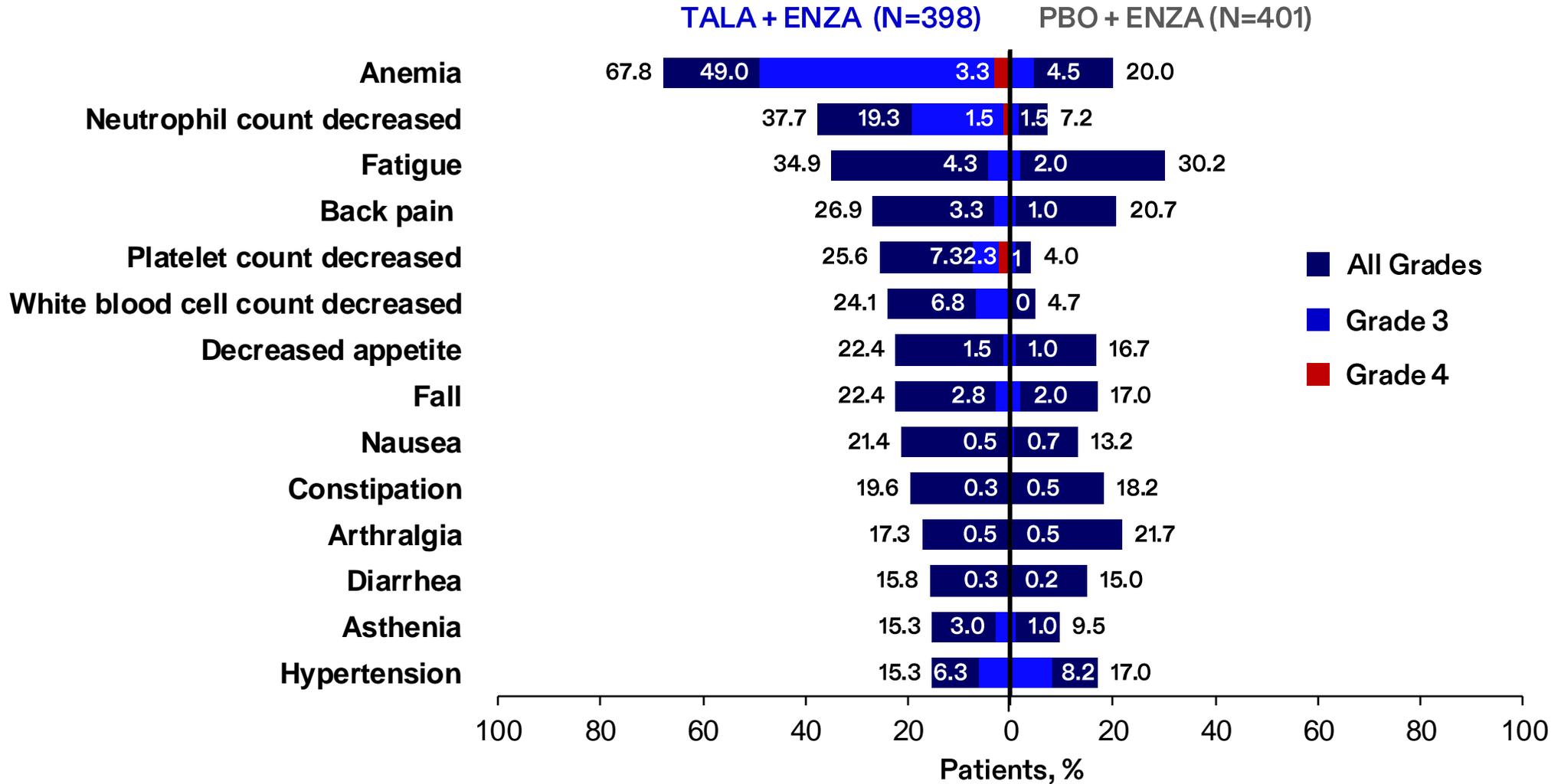
Unselected (Cohort 1)

# Overview of Treatment-Emergent Adverse Events

	Talazoparib + Enzalutamide (N=398)	Placebo + Enzalutamide (N=401)
<b>Any TEAE</b>	394 (99.0%)	384 (95.8%)
<b>Maximum Grade 3 or 4 TEAEs</b>	302 (75.9%)	179 (44.6%)
<b>Maximum Grade 5 TEAEs</b>	14 (3.5%)	20 (5.0%)
<b>Any Serious TEAE</b>	182 (45.7%)	126 (31.4%)
<b>TEAEs Leading to Discontinuation</b>		
Talazoparib/Placebo	86 (21.6%)	52 (13.0%)
Enzalutamide	53 (13.3%)	48 (12.0%)
<b>TEAEs Leading to Dose Reduction</b>		
Talazoparib/Placebo	217 (54.5%)	29 (7.2%)
Enzalutamide	61 (15.3%)	33 (8.2%)
<b>TEAEs Leading to Dose Interruptions</b>		
Talazoparib/Placebo	260 (65.3%)	99 (24.7%)
Enzalutamide	175 (44.0%)	91 (22.7%)

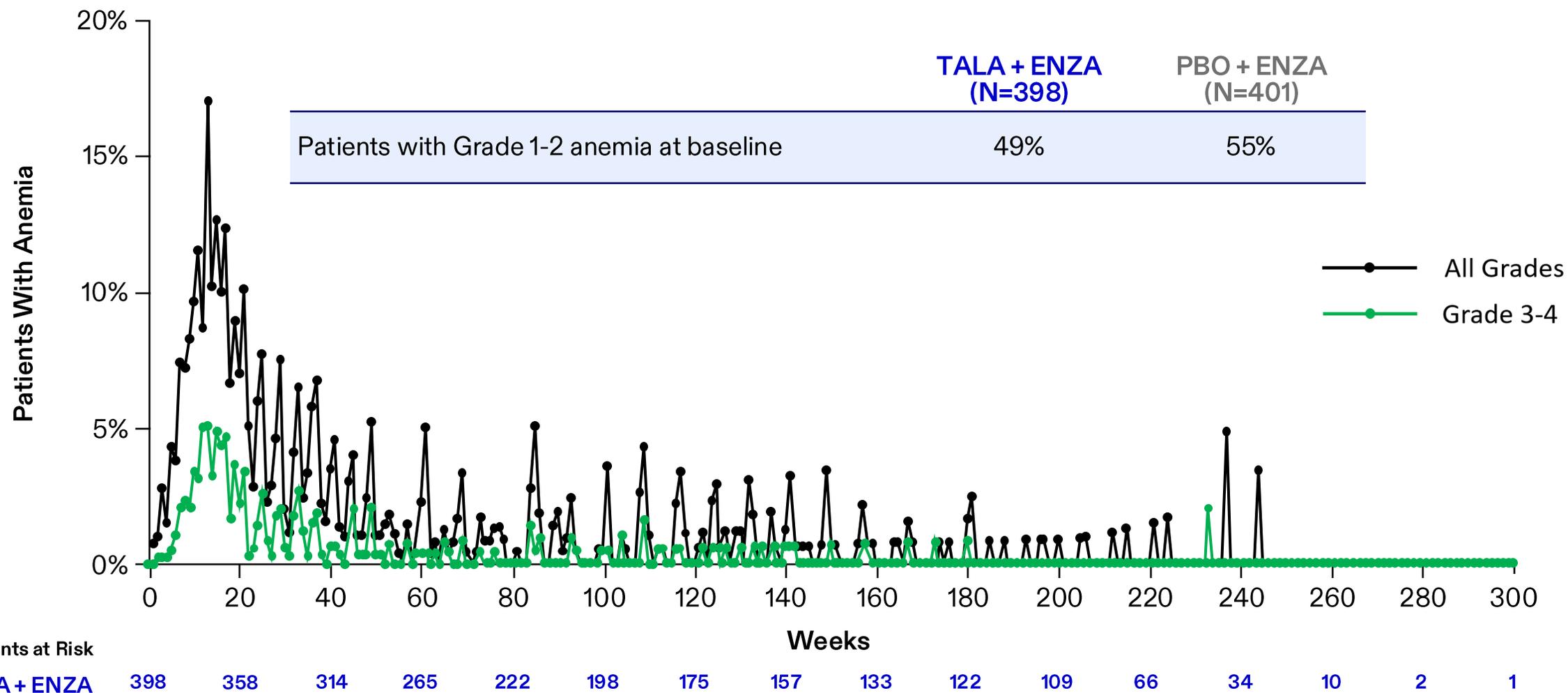
Unselected (Cohort 1)

# Summary of TEAEs (≥15%): Consistent with Known Safety Profiles



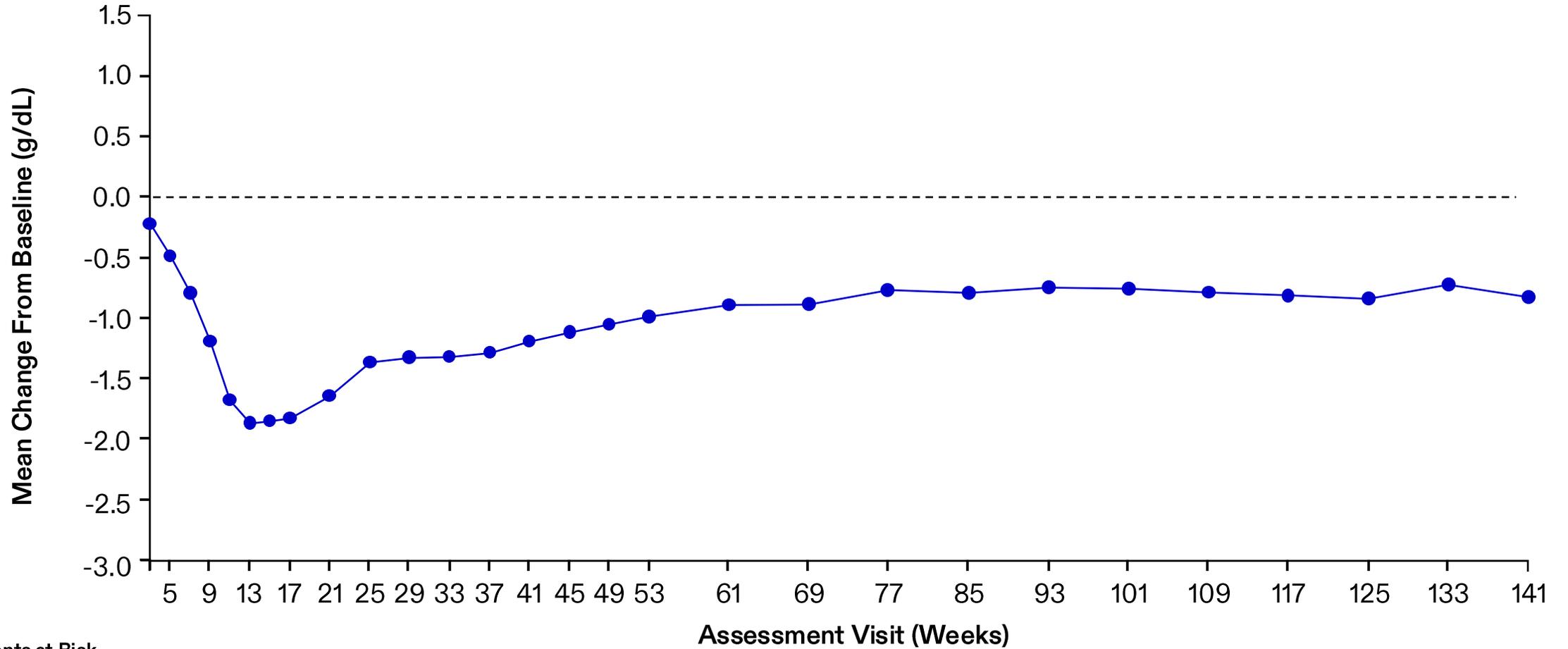
Unselected (Cohort 1) - Talazoparib + Enzalutamide Arm

# Incidence of Anemia Decreases Over Time



Unselected (Cohort 1) – Talazoparib + Enzalutamide Arm

# Hemoglobin Change From Baseline Occurs Early and Improves Over Time



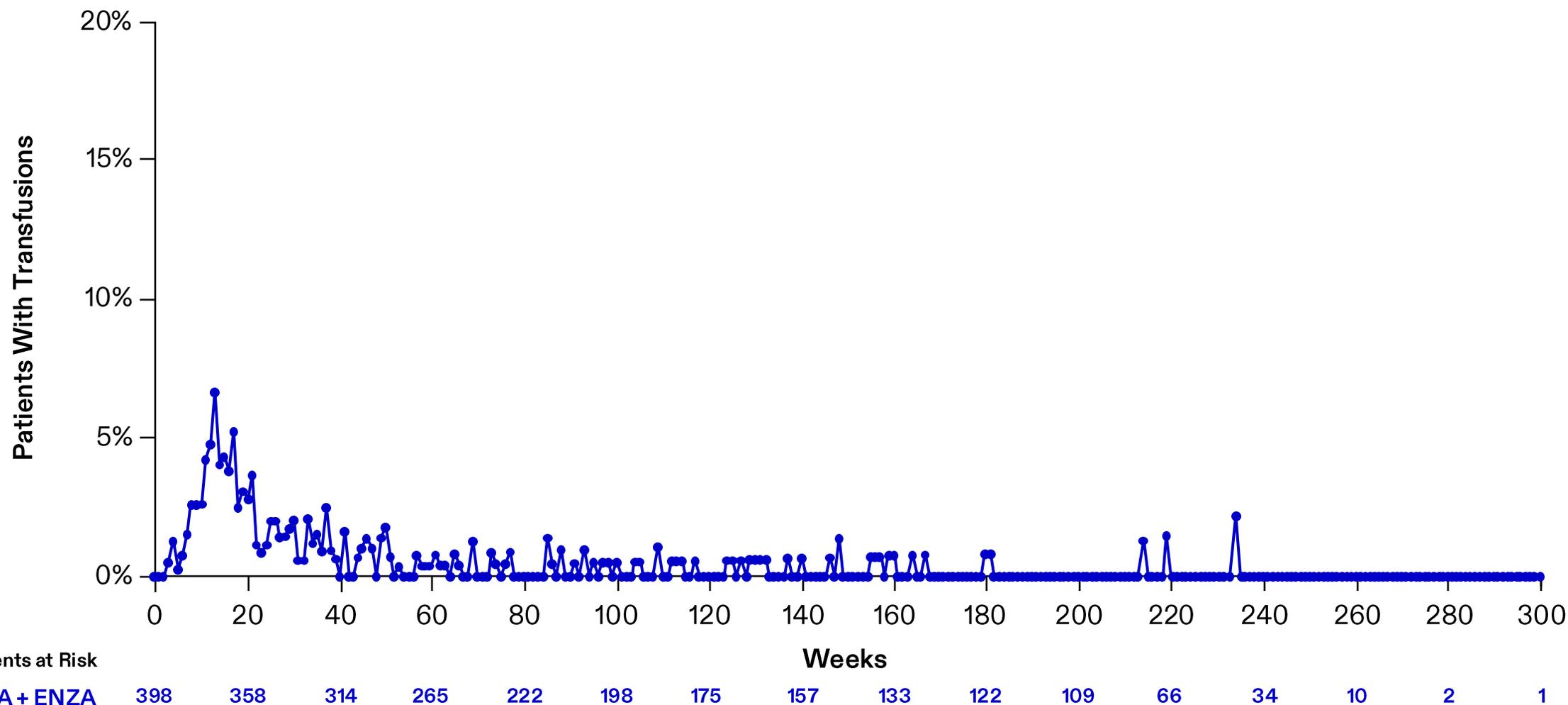
Patients at Risk

**TALA + ENZA**

393 385 373 366 353 350 344 337 325 307 292 289 274 258 236 226 216 207 196 190 178 165 159 153

Unselected (Cohort 1) – Talazoparib + Enzalutamide Arm

# Incidence of Transfusions Decreases Over Time



Unselected (Cohort 1)

# Anemia is Manageable With Dose Modifications

	Talazoparib + Enzalutamide (N=398)	Placebo + Enzalutamide (N=401)
<u>Dose discontinuation</u> due to anemia <sup>a</sup>	34 (8.5%)	6 (1.5%)
<u>Dose reduction</u> due to anemia	177 (44.5%)	6 (1.5%)
<u>Dose interruption</u> due to anemia	185 (46.5%)	10 (2.5%)

**Median Relative Dose Intensity for Talazoparib was 82%**

<sup>a</sup> Refers to permanent discontinuation of talazoparib/placebo.

Unselected (Cohort 1) – Talazoparib + Enzalutamide Arm

# Safety Profile is Consistent With Additional 24 Months of Follow-up

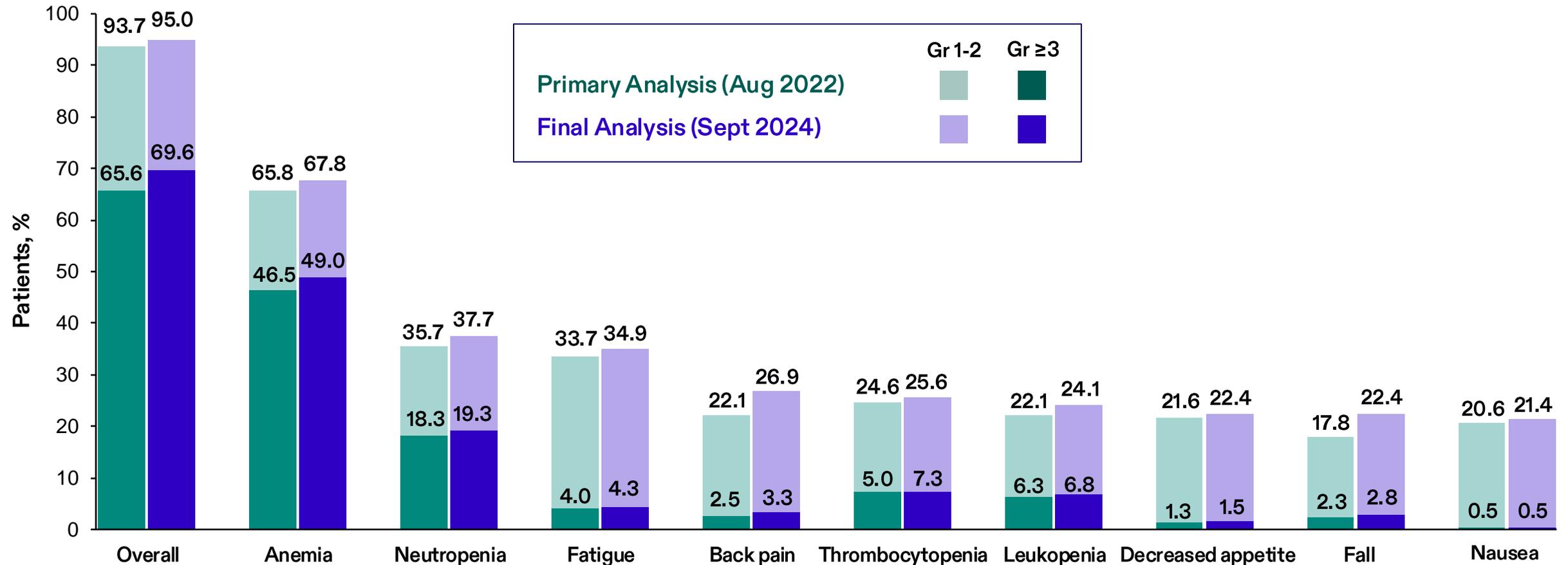


Figure includes TEAEs reported in  $\geq 20\%$  of patients in either analysis.

Agarwal N, et al. *Lancet*. 2023;402:291-303.

Unselected (Cohort 1)

# Adverse Events of Special Interest

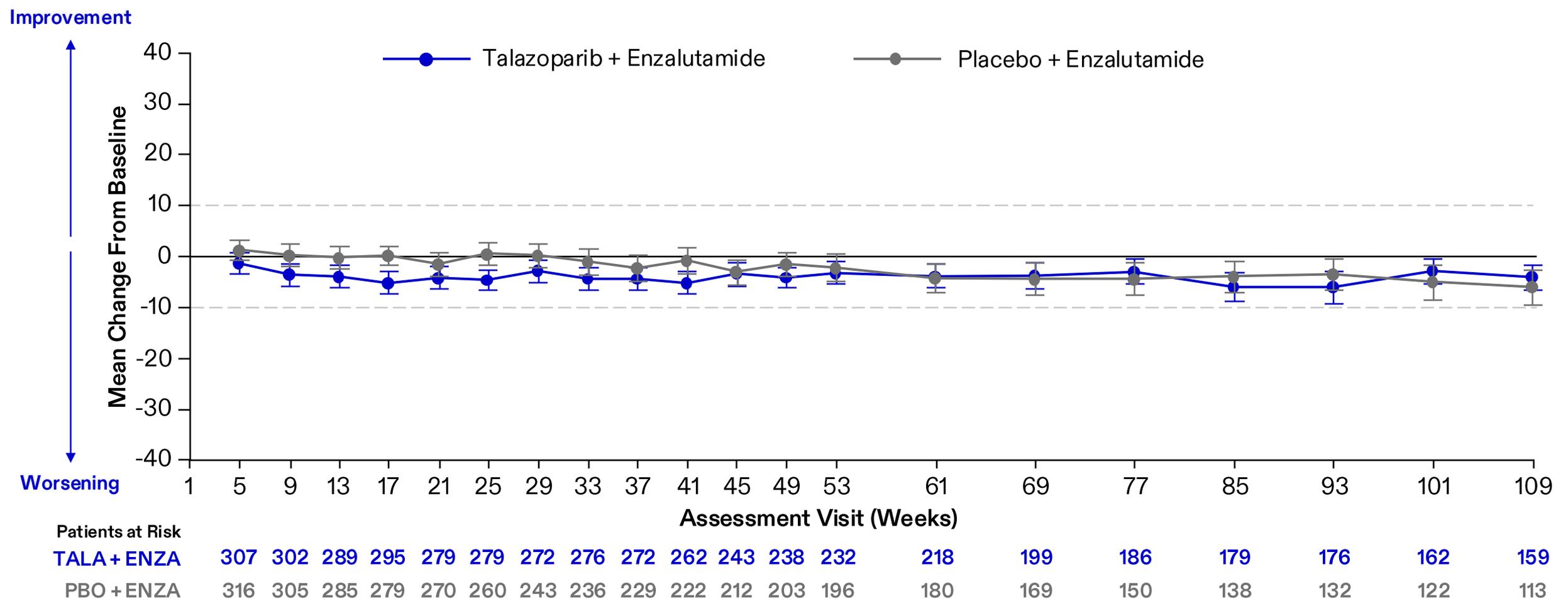
	Talazoparib + Enzalutamide (N=398)	Placebo + Enzalutamide (N=401)
Preferred Term	Grade $\geq 3$	Grade $\geq 3$
Venous thrombotic/embolic events	13 (3.3%)	3 (0.7%)
Second primary malignancies	11 (2.8%)	17 (4.2%)
Pneumonitis	1 (0.3%)	0
Myelodysplastic syndrome/ Acute myeloid leukemia	2 (0.5%) <sup>a</sup>	0

**No New Cases of MDS/AML with 24 Months of Additional Follow-up**

<sup>a</sup> Includes one case of AML reported outside of safety reporting period.

Unselected (Cohort 1) - EORTC QLQ-C30

# Patient Reported Global Health Status/Quality of Life

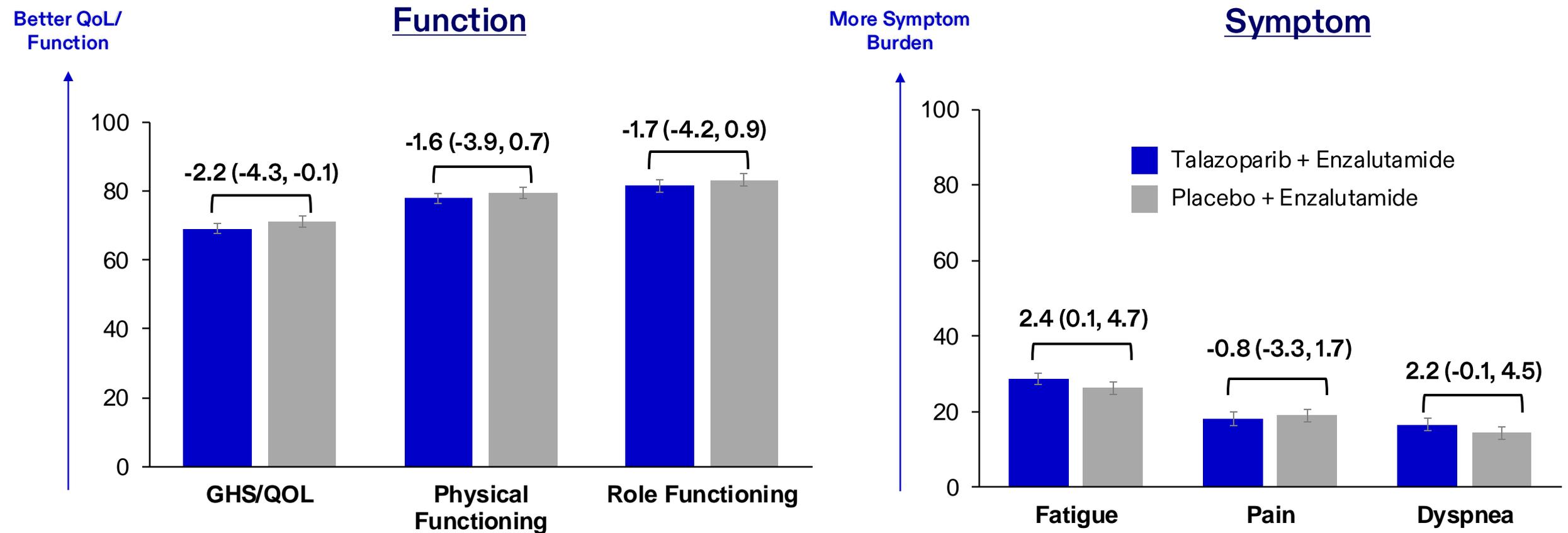


**No Clinically Meaningful Difference Between Treatment Arms**

GHS/QoL, Global Health Status/ Quality of Life.  
 Observed mean change from baseline in the first 2 years.

Unselected (Cohort 1) - EORTC QLQ-C30

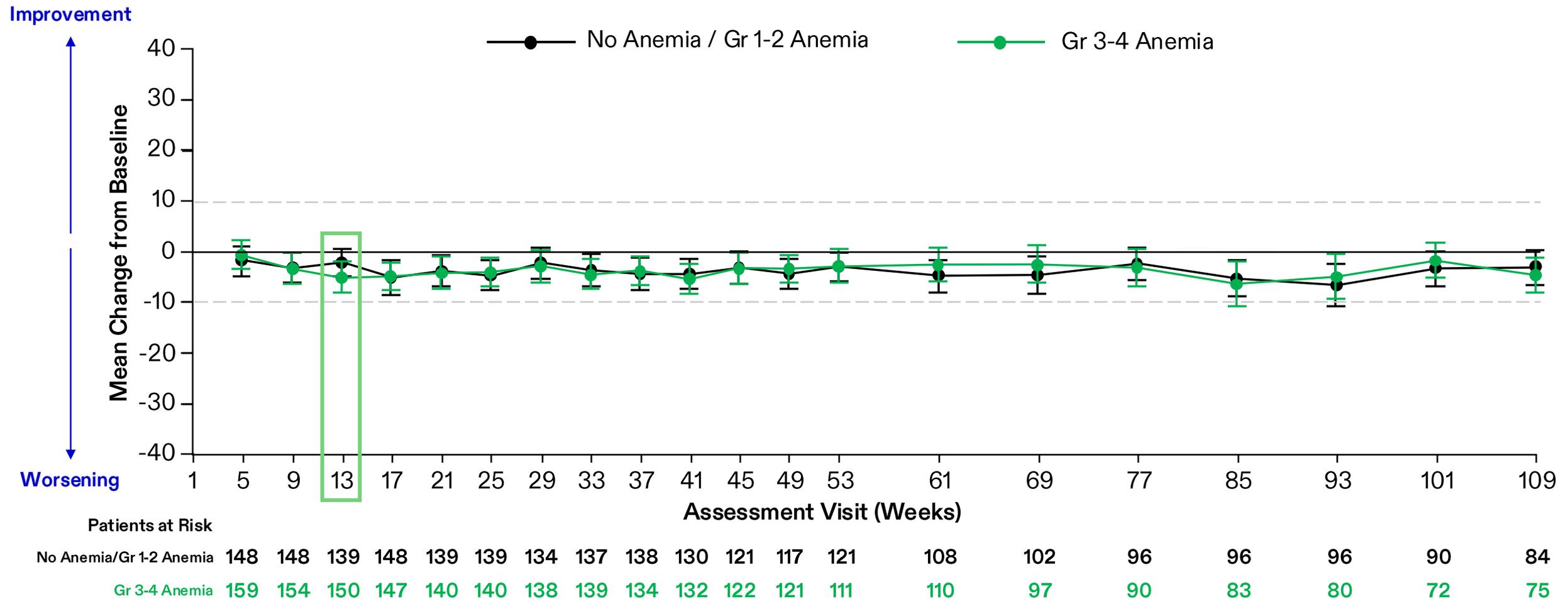
# Patient Reported Functioning and Symptoms



**No Clinically Meaningful Difference Between Treatment Arms**

Unselected (Cohort 1) – EORTC QLQ-C30 – Talazoparib + Enzalutamide Arm

# Patient Reported Global Health Status/Quality of Life



**No Clinically Meaningful Difference With vs Without Grade 3-4 Anemia**

Mean observed change from baseline based on status of treatment emergent grade 3-4 anemia in first two years.

# Safety Summary

## **Safety profile of talazoparib and enzalutamide is well-established**

- Safety profile of the combination is consistent with the known profiles of the individual agents
- Safety remains unchanged with 24 months of additional follow-up

## **Anemia is the most common AE related to talazoparib**

- Occurs early and is manageable with dose modifications and supportive care
- GHS/QoL scores were similar among patients experiencing Grade 3-4 anemia and those who did not

**No evidence of substantive toxicity that impacted the duration of treatment, the ability to receive subsequent therapies, or overall survival**



# Clinical Perspective

**Neeraj Agarwal, MD, FASCO**

Professor of Medicine

Presidential Endowed Chair of Cancer Research

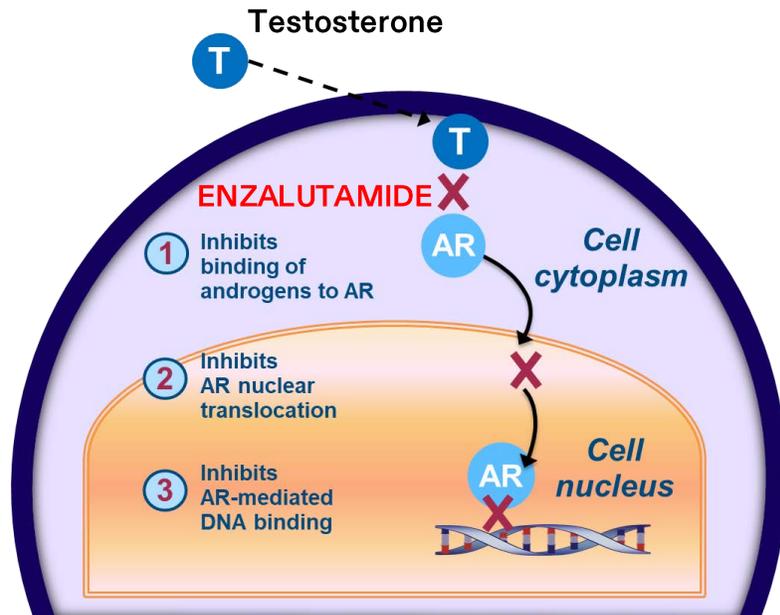
Huntsman Cancer Institute

University of Utah

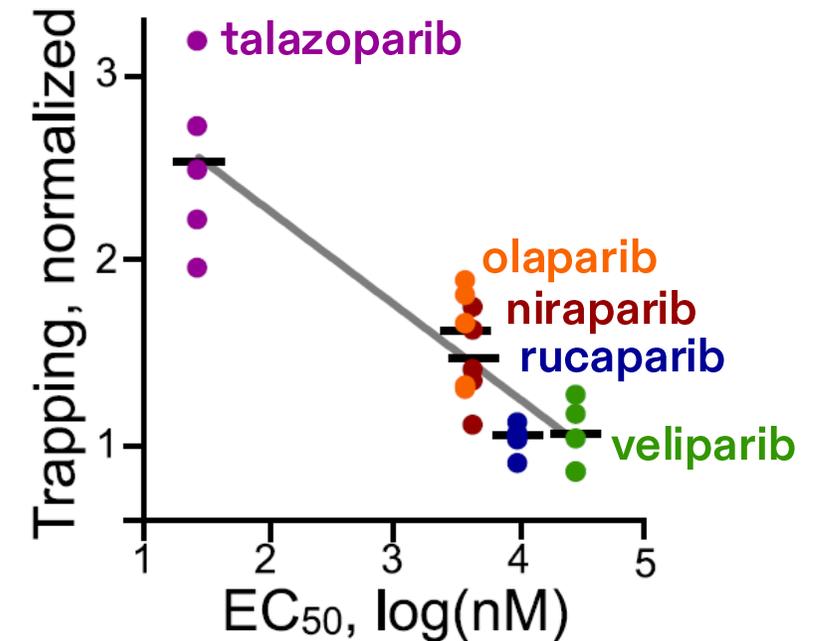


# Why is Talazoparib + Enzalutamide Different from Other PARPi + ARPi Combinations?

Enzalutamide directly inhibits the androgen receptor<sup>1,2,3</sup>



Talazoparib is the most potent PARP trapper<sup>4</sup>



ARPI=androgen receptor pathway inhibitor.

1. Chen Y, et al. *Lancet Oncol.* 2009;10(10):981-991; 2. La J, et al. *JAMA Network Open.* 2024;7(8):e2428444; 3. George DJ, et al. *Prostate Cancer Prostatic Dis.* 2024;27:756-764;

4. Reprinted from *Cell Chemical Biology*, 31(7), Gopal, A.A., et al., PARP trapping is governed by the PARP inhibitor dissociation rate constant, 1373-1382 e10, Copyright 2024 with permission from Elsevier.

# TALAPRO-2 Results Differ from PROpel<sup>1,2</sup>

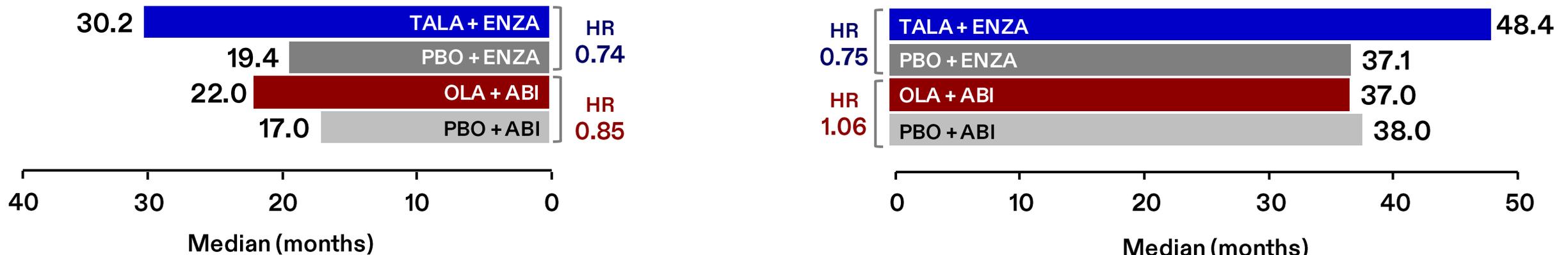
**rPFS<sup>a</sup>**  
Primary endpoint

Unselected ITT

**Overall Survival**  
Key secondary endpoint



**Non-BRCAm Subgroup<sup>b</sup>**  
(Based on 2 Tests)

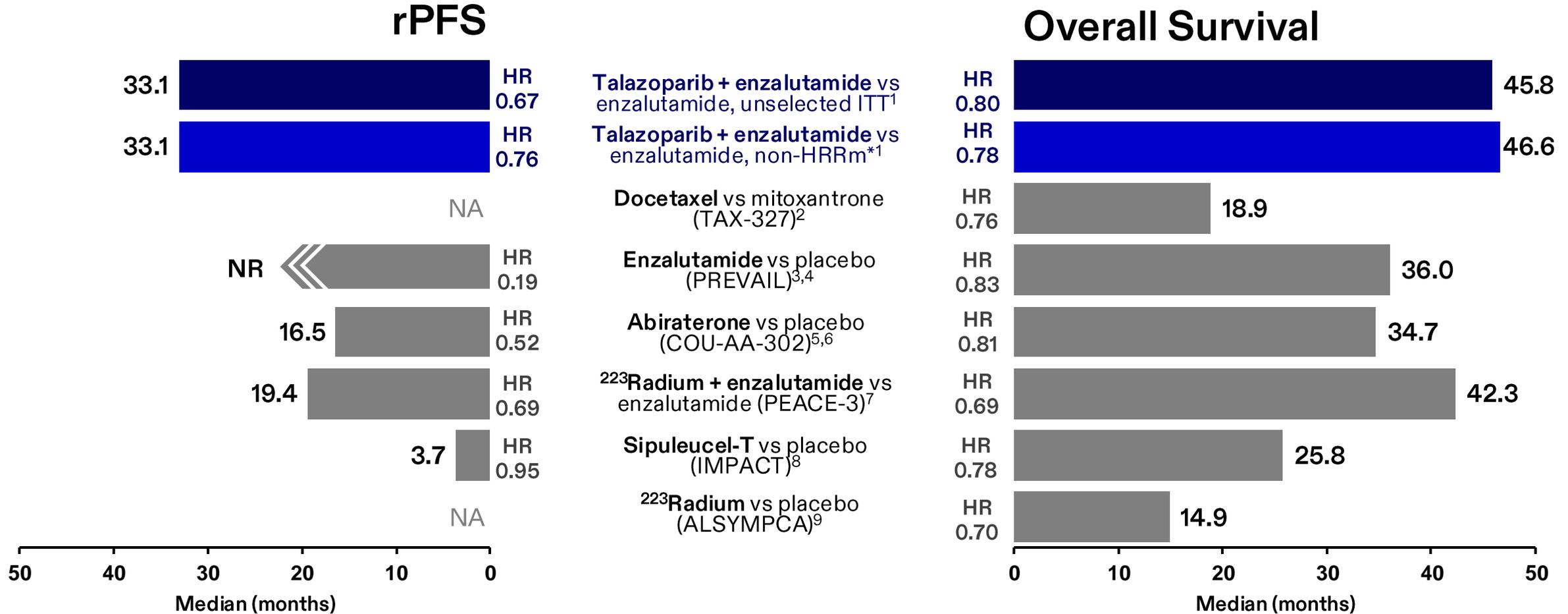


<sup>a</sup> rPFS was centrally assessed for TALAPRO-2 and investigator assessed for PROpel. All rPFS analyses shown for TALAPRO-2 are at the final OS readout, PROpel rPFS for the unselected ITT was assessed at final OS readout while non-HRR and non-BRCA rPFS results are from earlier data cuts.

<sup>b</sup> Negative for BRCAm by both tumor and ctDNA tests. All TALAPRO-2 results are from Cohort 1.

1. Saad et al. 2023 *Lancet Oncol* 24:1094-1108; 2. FDA ODAC Briefing Document NDA 208558/Supplement 25, 2023.

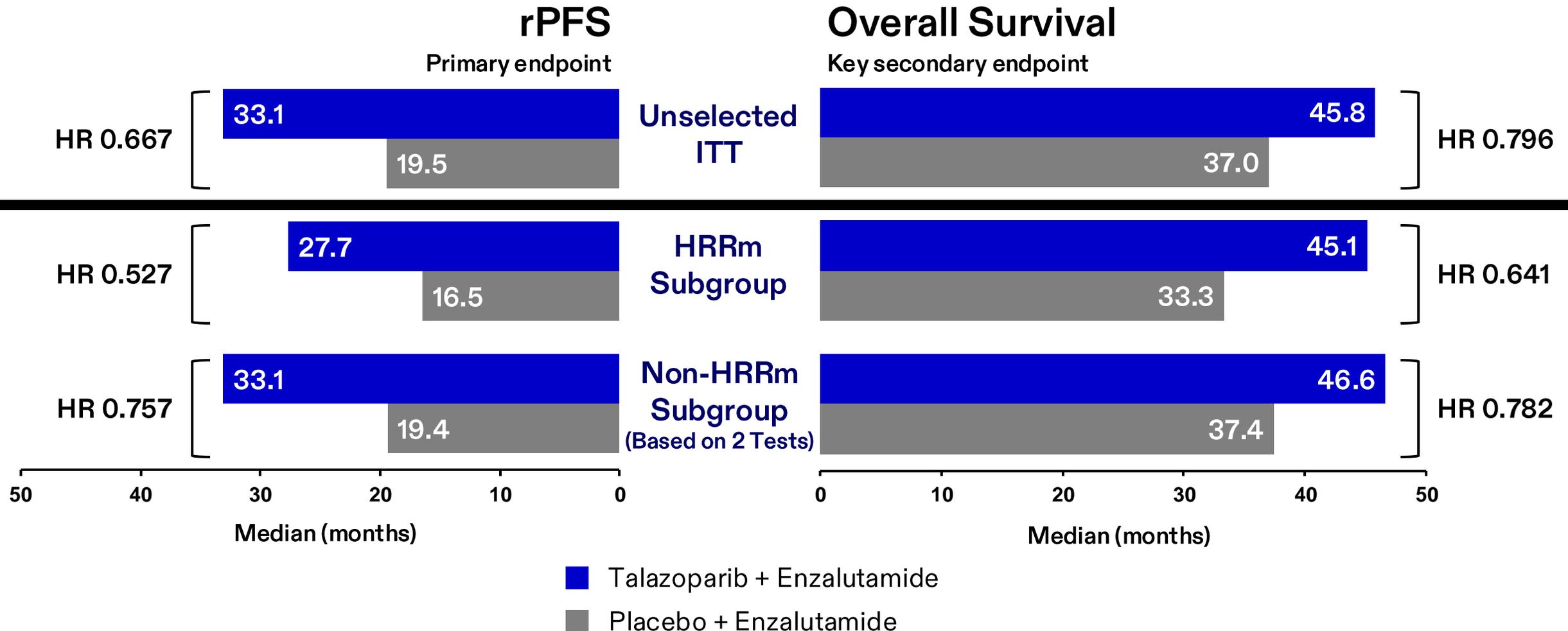
# Efficacy of Current 1L Treatment Options for Unselected mCRPC



\* Negative for HRRm by both tumor and ctDNA tests; NR=not reached; NA=not available.

1. Agarwal et al. LBA18, ASCO-GU 2025; 2. Tannock IF et al. *N Engl J Med* 2004;351:1502-1512; 3. Beer TM et al. *N Engl J Med* 2014;371:424-433; 4. Armstrong AJ et al. *European Urology* 2020;78(3):347-357; 5. Ryan JR et al. *The Lancet* 2015;16(2):152-160; 6. Rathkopf DE et al. *European Urology* 2014;66(5):815-825; 7. Gillesen et al. LBA1, ESMO 2024; 8. Kantoff PW et al. *N Engl J Med* 2010;363:411-422; 9. Parker C et al. *N Engl J Med* 2013;369:213-223.

# With or Without HRRm, Patients with mCRPC Benefit from Talazoparib + Enzalutamide



# Anemia is Expected and Manageable

## Anemia is the most frequently observed adverse event

- Clinical trial experience: baseline anemia and protocol requirements may have contributed to frequency of Grade 3-4 events and transfusions
- Managing anemia is common in clinical practice
- Monitor for anemia through standard CBCs, especially during first 3 months
- Managed by dose modifications per current US prescribing information
- Acceptable safety profile

# Physician and Patient Benefit/Risk Discussion

## Potential Benefits

- Opportunity to delay progression by additional 11-14 months
- Potentially delaying symptoms of progression, compared to an active therapy
- Overall survival potentially extended by 9-12 months
- No clinically meaningful difference in quality of life vs enzalutamide alone

## Potential Risks

- About half of the patients develop Grade 3 anemia, mostly within first 3 months
- Managed by routine blood tests, dose modifications and supportive care
- Potential for rare adverse events

**Talazoparib + Enzalutamide is a Life-Prolonging Therapy  
that Should be an Option for All Patients with mCRPC**



# Closing Remarks

**Johanna Bendell, MD**

Chief Development Officer  
Oncology Research and Development  
Pfizer Inc.



# Conclusions

- Unmet need remains in patients with non-HRRm mCRPC
- Well-documented scientific rationale for the differentiated MOA of talazoparib and enzalutamide in non-HRRm tumors
- Efficacy in the non-HRRm subgroup is clinically meaningful and reflects a true treatment effect that is unlikely due to chance alone
- Anemia is common but manageable with dose modifications and supportive care
- TALAPRO-2 demonstrated statistically significant and clinically meaningful gains in rPFS and OS in the unselected population (ITT)

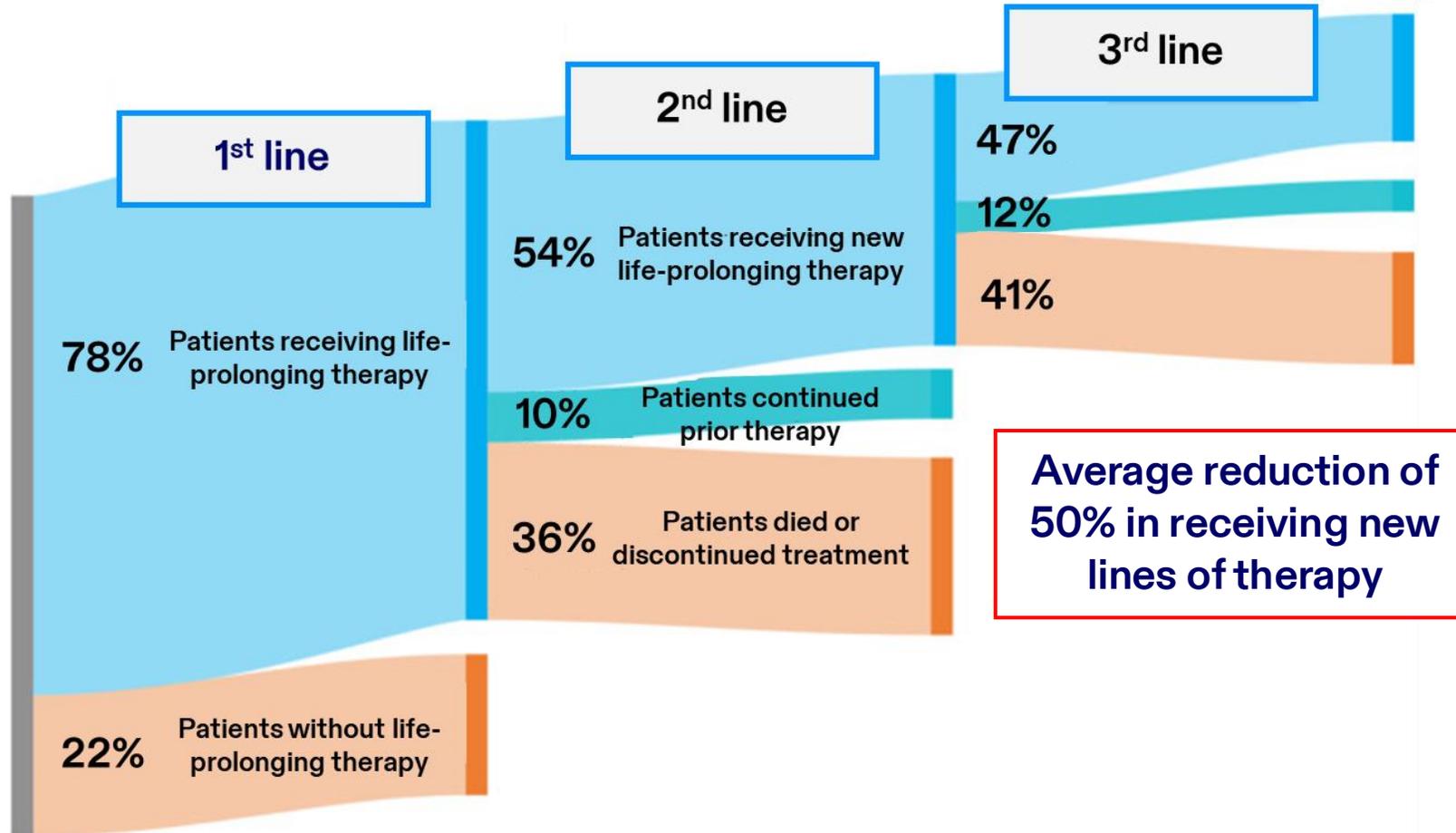
**Proposed Indication: TALZENNA® (talazoparib) is indicated in combination with enzalutamide for the treatment of adult patients with mCRPC**

# Supporting Slides

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# US mCRPC Treatment Patterns<sup>1</sup>

mCRPC patients  
(n=14,780)



Unselected (Cohort 1)

# Selected Subsequent Antineoplastic Systemic Therapies

Post-Baseline Antineoplastic Therapy Use	TALA + ENZA (N=398) N (%)	PBO + ENZA (N=401) N (%)	Total (N=799) N (%)
<b>Patients Taking any of the Selected Post-Baseline Therapy</b>	<b>145 (36.4)</b>	<b>201 (50.1)</b>	<b>346 (43.3)</b>
Taxane-Based Therapy	102 (25.6)	149 (37.2)	251 (31.4)
Second Generation Androgen Receptor Inhibitors	22 (5.5)	25 (6.2)	47 (5.9)
Radiopharmaceuticals	36 (9.0)	44 (11.0)	80 (10.0)
Single-Agent PARP Inhibitor Therapies	6 (1.5)	15 (3.7)	21 (2.6)
Cellular Immunotherapy	1 (0.3)	1 (0.2)	2 (0.3)
Abiraterone	44 (11.1)	68 (17.0)	112 (14.0)
Other Cytotoxic Chemotherapy	5 (1.3)	19 (4.7)	24 (3.0)

Unselected (Cohort 1)

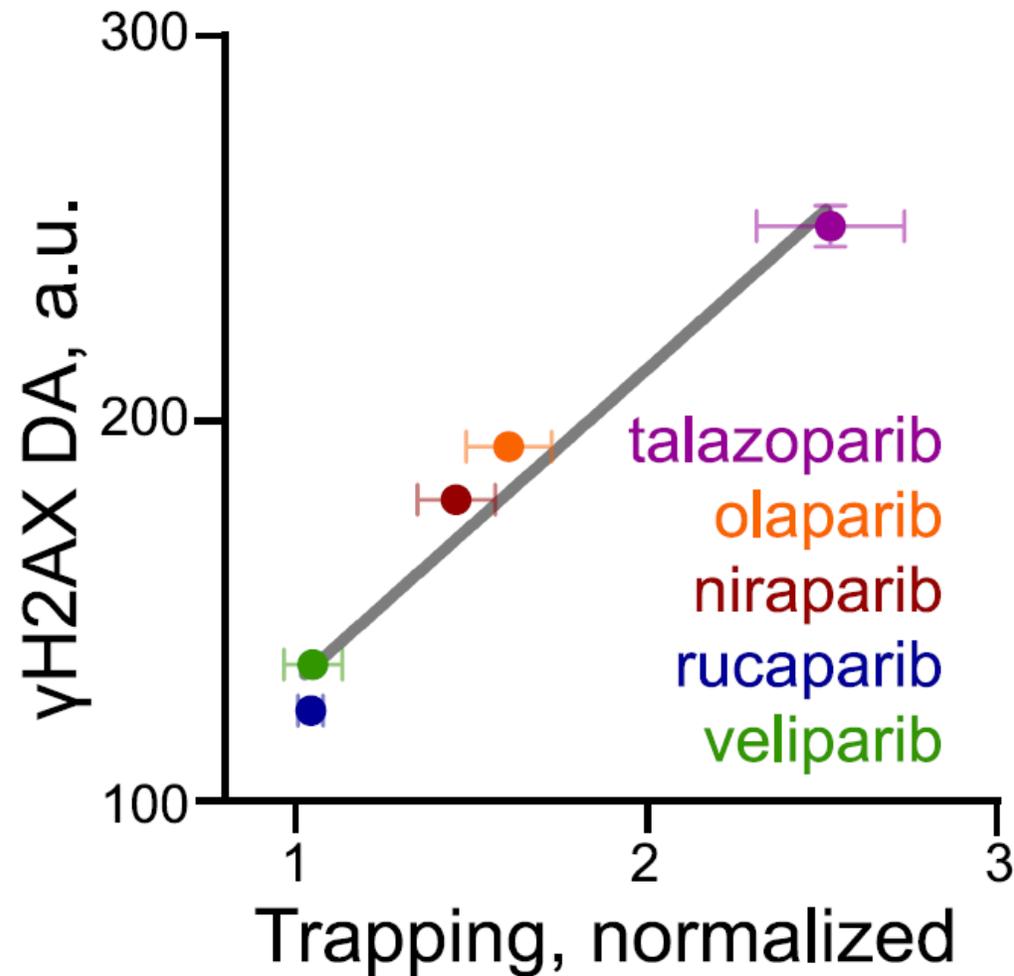
# Consistent rPFS (BICR) Benefit in Non-HRRm Disease

Subgroup	N	Median (mo)	← Favors TALA + ENZA	Favors PBO + ENZA →	Hazard Ratio (95% CI)	1-sided p-value
All Patients	805	33.1/19.5			0.67 (0.55, 0.81)	<0.0001
Non-HRRm “Double Negative” (FDA)	294	NR/22.4			0.68 (0.47, 0.98)	
Non-HRRm “Double Negative” (Applicant)	314	33.1/19.4			0.76 (0.55, 1.04)	0.040
Non-HRRm by Prospective Tumor Tissue and Blood	426	33.2/22.1			0.75 (0.58, 0.98)	0.0183
Non-HRRm by Prospective Plus Retrospective Plasma	547	35.8/22.8			0.77 (0.61, 0.97)	0.0140
Non-HRRm by Tumor Tissue	412	33.1/19.4			0.73 (0.56, 0.96)	0.0115
Non-HRRm by ctDNA	480	37.7/24.3			0.74 (0.57, 0.95)	0.0080

0      0.5      1      1.5

Hazard Ratio (95% CI)

# Potent PARP Trapping by Talazoparib is Associated with High Accumulation of DNA DS-Break Marker GammaH2AX



Unselected (Cohort 1)

# Grade 1 and 2 Nausea and Decreased Appetite

Number (%) of Participants: by Preferred Term	Talazoparib + Enzalutamide (N=398)		Placebo + Enzalutamide (N=401)	
	Grade 1 N (%)	Grade 2 N (%)	Grade 1 N (%)	Grade 2 N (%)
Nausea	47 (11.8)	36 (9.0)	34 (8.5)	16 (4.0)
Decreased appetite	57 (14.3)	26 (6.5)	43 (10.7)	20 (5.0)