



Precision Medicine for Prostate Cancer

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Precision Medicine or Personalized Medicine





Increases survival rates Targets tumors with greater accuracy Mitigates unnecessary treatments

Identifies new treatment possibilities



Germline BRCA2 prostate cancer

Instead of using a one-size-fits-all approach Aims to customize healthcare Medical Decisions Treatments Products tailored to the individual patient

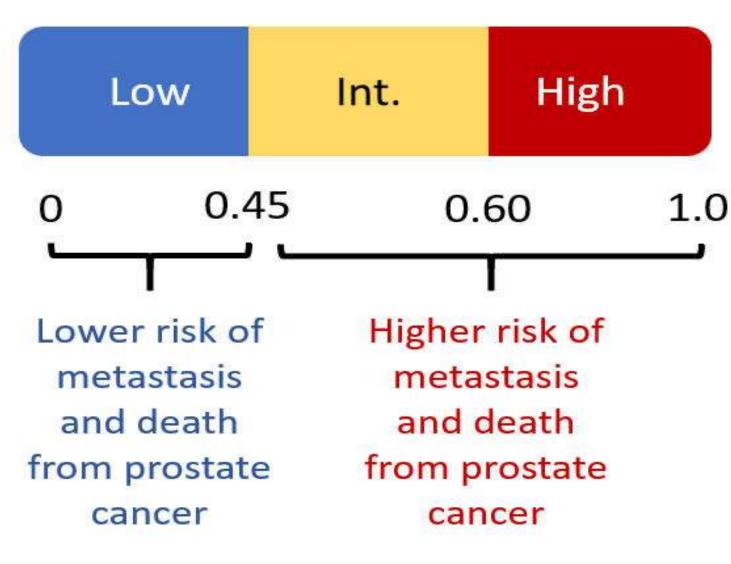
Precision Medicine in Prostate Cancer Topics Today

- Risk Stratification
- Genetic Profiling of Prostate Cancer
- Targeted Therapies (PARPi)
- PSMA Theranostics

Genomic Decipher Scores

Evaluates the expression of 22 RNA biomarkers from multiple different biological pathways

<u>Goes beyond</u> <u>PSA and</u> <u>Gleason</u> <u>Score</u>



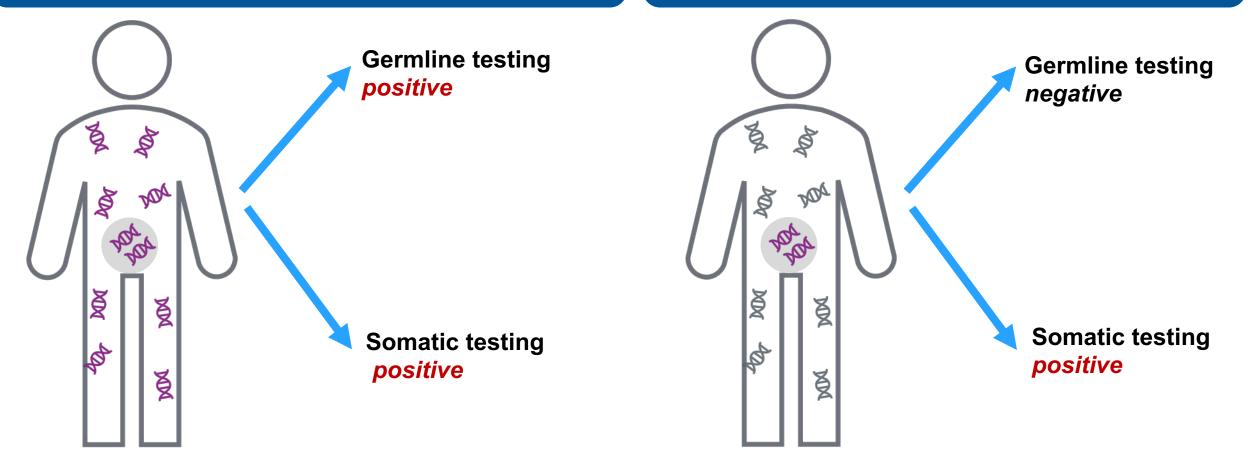
	POST-BIOPSY		
Clinical Decision	Decipher Risk May Consider		
Active Surveillance <u>Protocol</u>	Low	Less Intense 1-6	
	High	More Intense 1-6	
Active Surveillance <u>OR</u> Definitive Therapy	Low	Active Surveillance 1-6	
	High	Definitive Therapy 1-6	
Radiation <u>OR</u> Radiation + ADT	Low	Radiation 1,4-7	
	High	Radiation + ADT ^{1,4-8}	
Duration of Hormone Therapy with Radiation	Low	Radiation + Short-Term ADT 6-8	
	High	Radiation + Long-Term ADT 6-9	
POST-RA	DICAL PROSTA	ГЕСТОМҮ	
Clinical Decision	Decipher Risk	May Consider	
Monitoring <u>Protocol</u>	Low	Less Intense 10-12	
	High	More Intense 10-12	
PSA Monitoring <u>OR</u> Treatment	Low	PSA Monitoring 10-12	
	High	Treatment ¹⁰⁻¹²	
Radiation <u>OR</u> Radiation + ADT	Low	Radiation Alone 13-15	
	High	Radiation + ADT 13-15	

Marrone M et al. PLoS Curr. 2015 November 17; 7

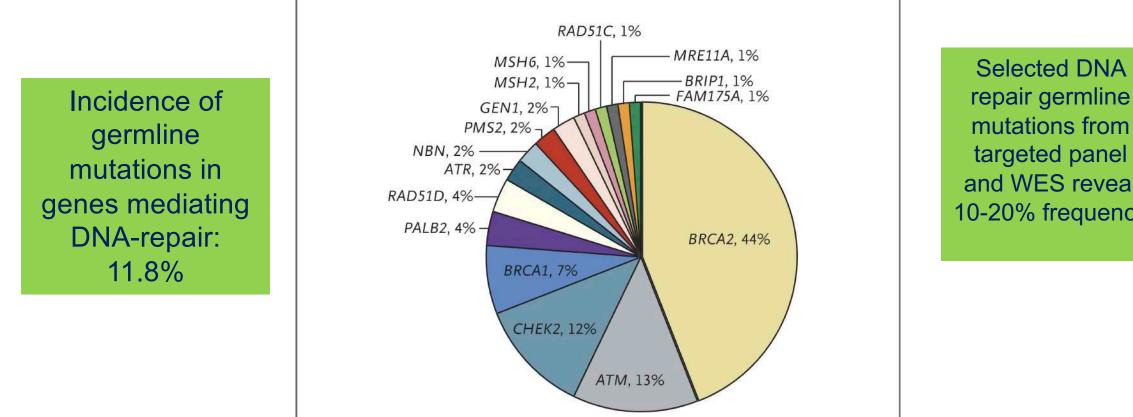
Germline and somatic testing: ~50% of HRRm detected in prostate tumor tissue are germline, rest are somatic

Somatic testing detects somatic and most germline mutations but does not distinguish between the two mutation types

Germline testing if negative can miss somatic mutations present in the tumor



Pathogenic DNA repair germline mutations



mutations from targeted panel and WES reveal 10-20% frequency

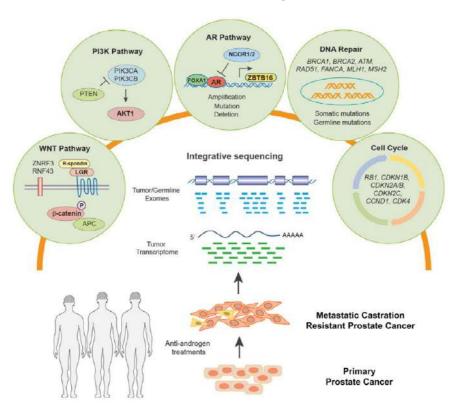
Distribution of 16 germline mutations: Most common BRCA2, ATM and CHEK2

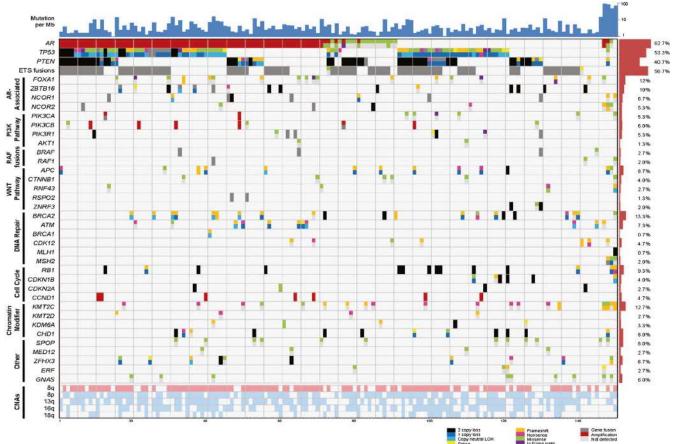
692 men with documented metastatic prostate cancer who were unselected for family history of cancer or age at diagnosis

Pritchard CC et al. N Engl J Med 2016;375:443-53

Genomic Alterations in mCRPC

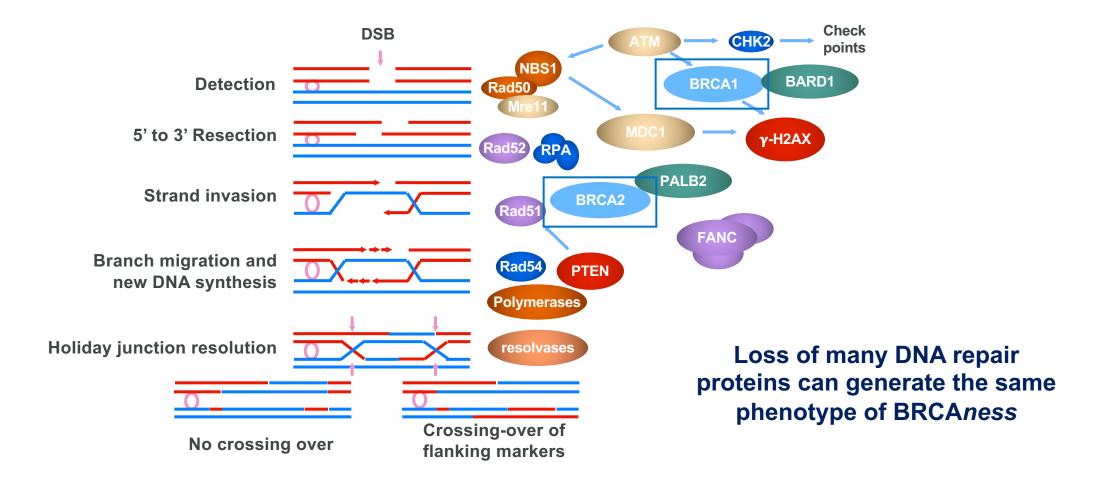
- 90% of mCRPC harbor clinically actionable molecular alterations
- 20% of mCRPC harbor DNA repair pathway aberrations (BRCA2, BRCA1, ATM and others)



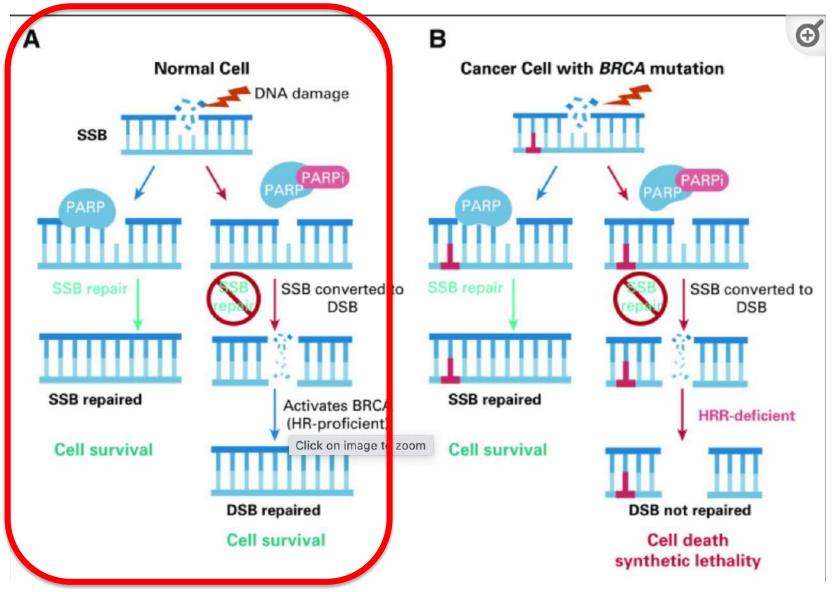


Signaling pathways identified

Homologous recombination DNA repair requires multiple proteins not just BRCA1/2



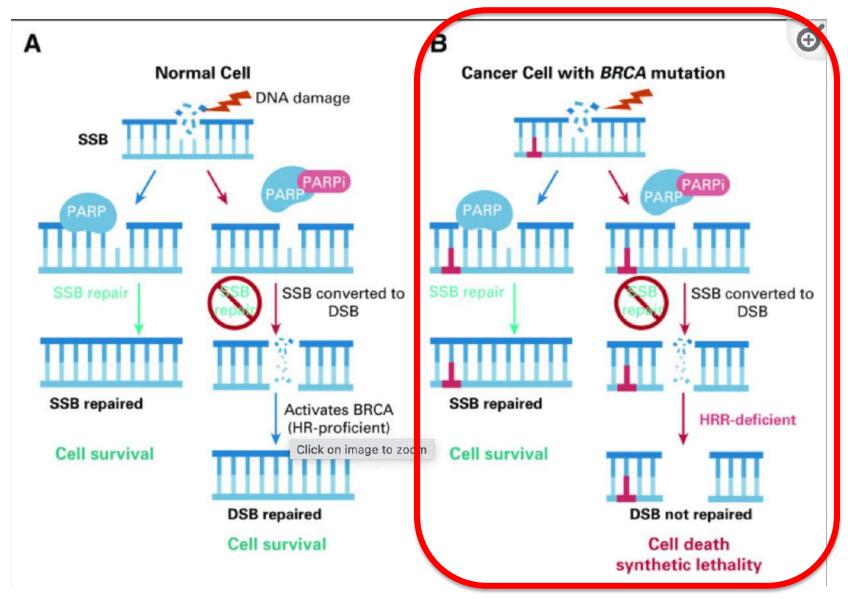
Cell response to DNA damage +/- BRCA mutation and when treated with PARPi



DSB, double-strand breaks; **HRR, homologous recombination**; PARP, poly (ADP-ribose) polymerase; PARPi, poly (ADP-ribose) polymerase inhibition; SSB, single-strand breaks

von Werdt A et al, JCO Precision Oncology 2021 51639-1649

Cell response to DNA damage +/- BRCA mutation and when treated with PARPi



DSB, double-strand breaks; **HRR, homologous recombination;** PARP, poly (ADP-ribose) polymerase; PARPi, poly (ADP-ribose) polymerase inhibition; SSB, single-strand breaks

von Werdt A et al, JCO Precision Oncology 2021 51639-1649

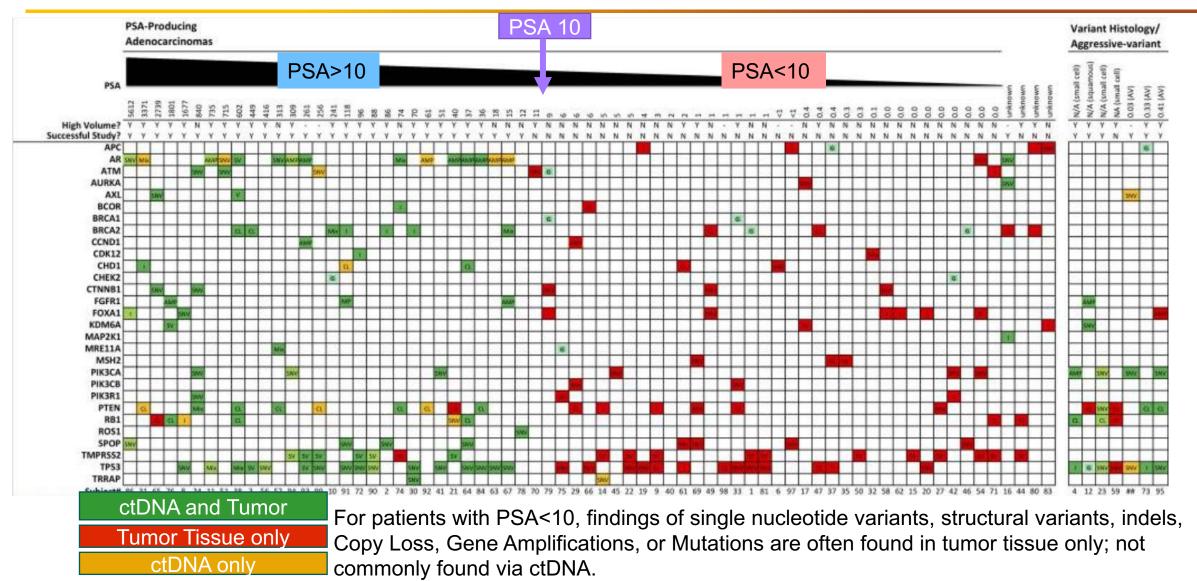
HRRm can be detected in archival samples

Tumor testing success rates in the	ne PROfound study		
	Proportion of samples with successful test (%)		
For archived vs. newly collected samples			Majority (79.7%) of primary tumor
Archived (n=4365)	56.9		samples in the study were archived
Newly collected (n=438)	63.9		samples
For primary vs. metastatic tumor samples		Other studies have shown HRR gene alterations detected in primary tumor	
Primary (n=4059)	56.3		tissue to be consistent and stable with matched metastatic tumor tissue
Metastatic (n=775)	63.7		
By sample age			
<1 year (n=368)	70.9		
1-3 years (n=1133)	66.9		Successful tests were obtained in a proportion of samples that were 10+
3-5 years (n=1139)	57.7	-	
5-10 years (n=1446)	51.8		years old ¹
>10 years (n=727)	47.0		

HRRm - homologous recombination repair gene mutations

Hussain et al. ASCO GU. 2020. Mateo et al. J Clin Invest. 2020. Schweizer et al. JAMA Oncol. 2021.

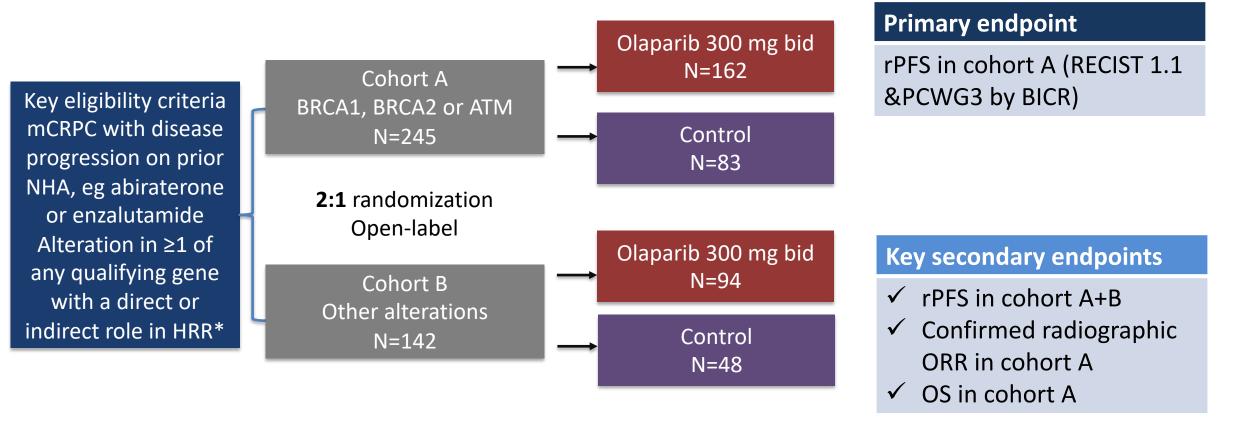
Both tumor tissue and liquid based ctDNA tests are important in metastatic Prostate Cancer, but tissue is the gold standard



ctDNA - circulating tumor DNA

Schweizer et al. Prostate. 2019.

PROfound: Phase III Trial of Olaparib in mCRPC with HRR mutations Study design

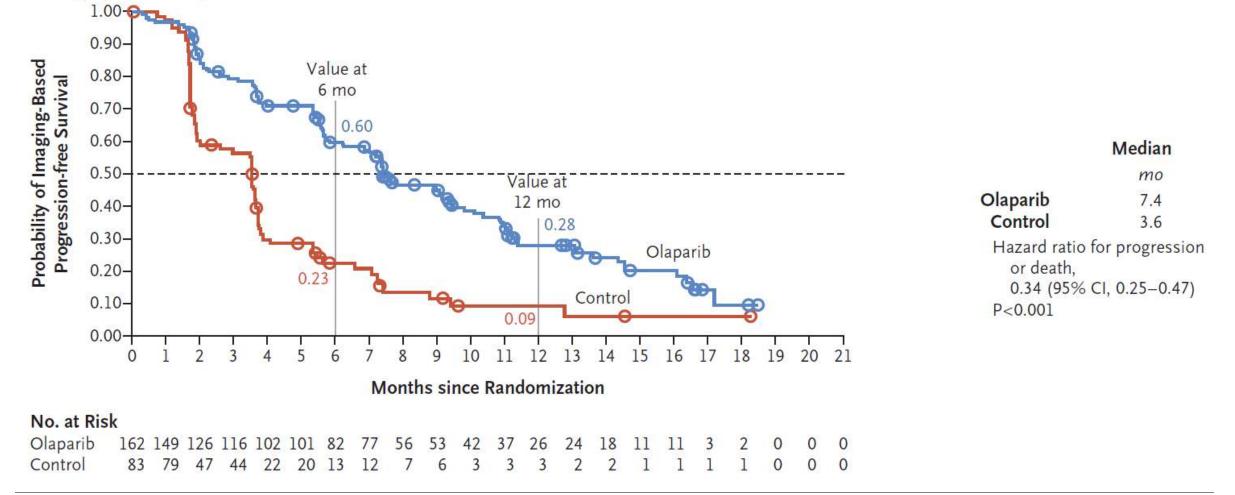


*An investigational clinical trial assay, based on the foundation medicine Inc, and used to prospectively select pts harboring alterations in BRCA1/2, ATM, BARD1, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, PPP2R2A, RAD51B, RAD51C, RAD51D and/ or RAD54L in their tumor tissue.

[†]Physician's choice of either enzalutamide (160 mg qd) or abiraterone (1000 mg qd plus prednisone [5 mg bid]). BICR, blinded independent central review; bid, twice daily; HRR, homologous recombination repair; RECIST 1.1, Response Evaluation Criteria in Solid Tumors version 1.1; TTPP, time to pain progression. de Bono J, et al. N Engl J Med. 2020 May 28;382(22):2091-2102.

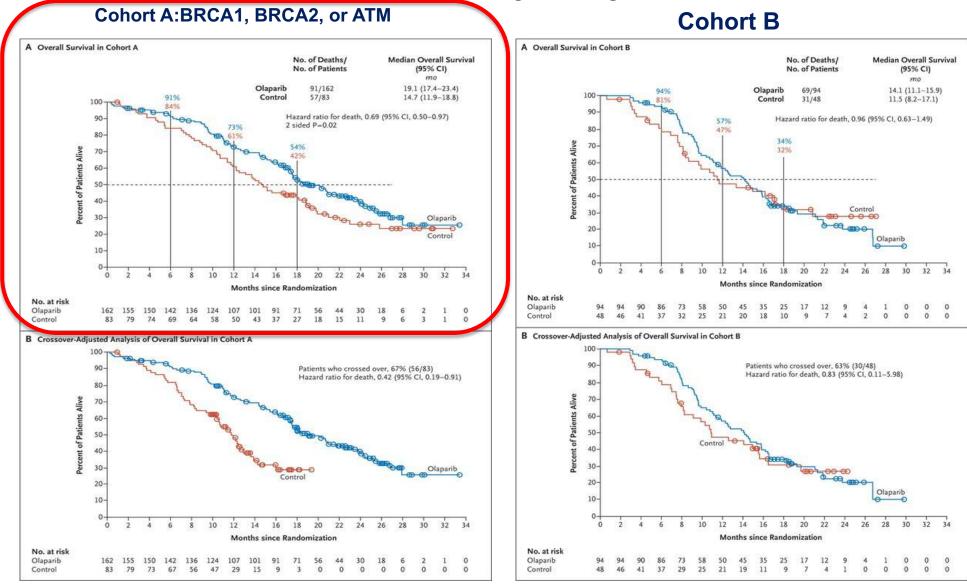
PROfound: Phase III Trial of Olaparib in mCRPC with HRR mutations Primary endpoint: rPFS by BICR in cohort A (BRCA1/2 and ATM)





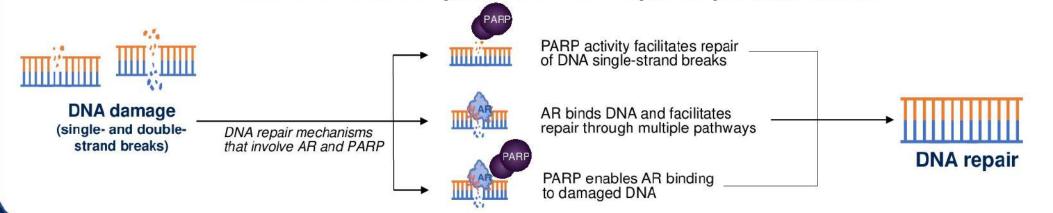
de Bono J, et al. N Engl J Med. 2020 May 28;382(22):2091-2102.

Overall Survival & Corresponding Crossover-Adjusted Sensitivity Analyses



Preclinical rationale for a combined effect of PARP and AR inhibition

PARP and AR are important for DNA repair in prostate cancer



AR, androgen receptor; DNA, deoxyribonucleic acid; NHA, next-generation hormonal agent; PARP, poly(ADP-ribose) polymerase. 1. Chaudhuri *et al. Nat Rev Mol Cell Biol* 2017;18:610–21; 2. Polkinghorn *et al. Cancer Discov* 2013;3:1245–53; 3. Lord *et al. Science* 2017;355:1152–8; 4. Pommier *et al. Sci Transl Med* 2016;8:p362ps17; 5. Schiewer *et al. Cancer Discov* 2012;2:1134–49; 6. Asim *et al. Nat Commun* 2017;8:374; 7. Li *et al. Sci Signal* 2017;10.

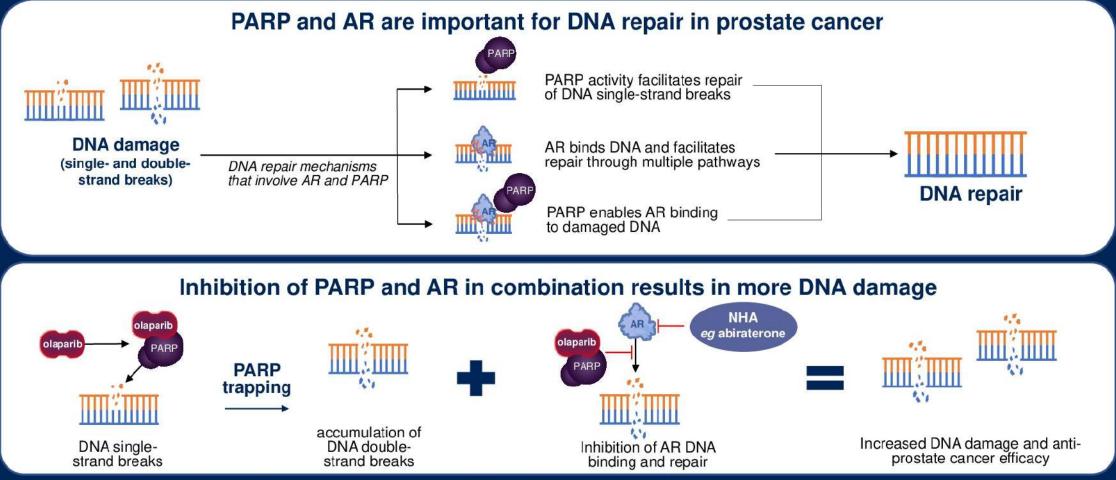
ASCO Genitourinary Cancers Symposium



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Preclinical rationale for a combined effect of PARP and AR inhibition



AR, androgen receptor; DNA, deoxyribonucleic acid; NHA, next-generation hormonal agent; PARP, poly(ADP-ribose) polymerase. 1. Chaudhuri *et al. Nat Rev Mol Cell Biol* 2017;18:610–21; 2. Polkinghorn *et al. Cancer Discov* 2013;3:1245–53; 3. Lord *et al. Science* 2017;355:1152–8; 4. Pommier *et al. Sci Transl Med* 2016;8:p362ps17; 5. Schiewer *et al. Cancer Discov* 2012;2:1134–49; 6. Asim *et al. Nat Commun* 2017;8:374; 7. Li *et al. Sci Signal* 2017;10.

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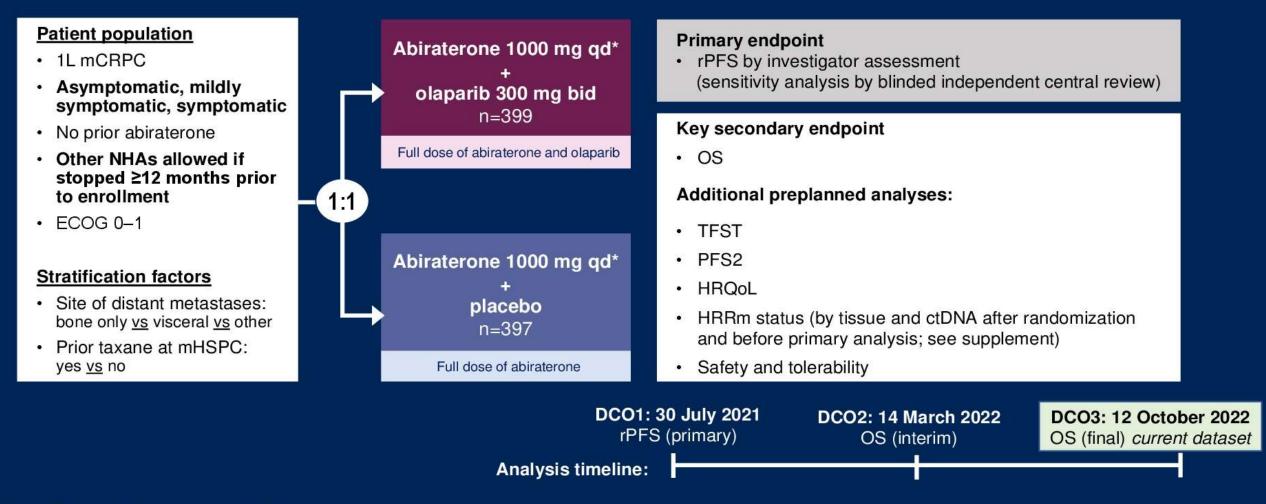


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PROpel: Phase III trial design



'In combination with prednisone or prednisolone 5 mg bid.

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bid, twice daily; ctDNA, circulating tumor DNA; DCO, data cut-off; ECOG, Eastern Cooperative Oncology Group; HRRm, homologous recombination repair mutation; HRQoL, health-related quality of life; mHSPC, metastatic hormone-sensitive prostate cancer; PFS2, time to second progression or death; qd, once daily; TFST, time to first subsequent therapy or death.

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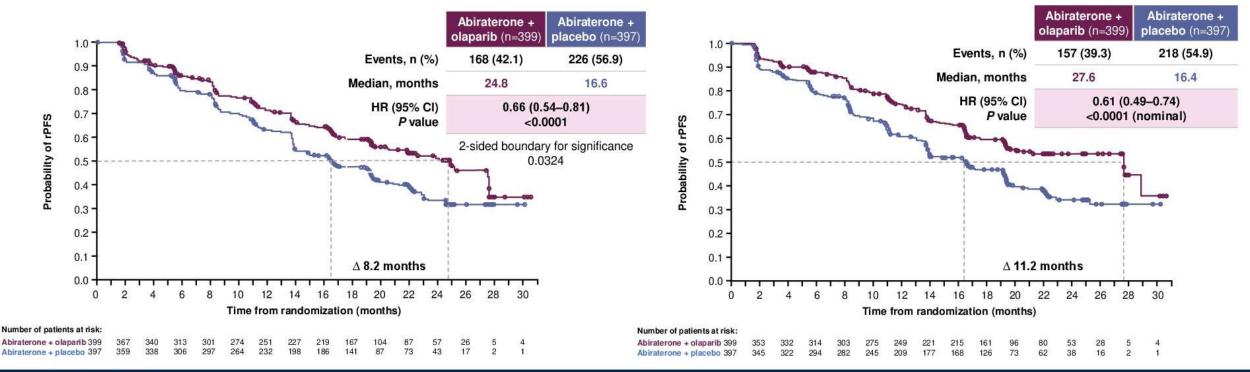
PROpel: primary rPFS results (DCO1)¹

Abiraterone + olaparib significantly prolonged rPFS versus abiraterone + placebo in the ITT population

rPFS by investigator assessment (INV)

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rPFS by blinded independent central review (BICR)



DCO1: 30 July 2021.

Median duration of follow-up for investigator-assessed rPFS for censored patients was 19.3 months in the abiraterone and olaparib arm, and 19.4 months in the abiraterone and placebo arm (19.3 and 19.2 months, respectively, for BICR).

ITT, intention-to-treat.

1. Clarke N et al. NEJM Evidence 2022; 1: EVIDoa2200043. Copright © 2022 Massachusetts Medical Society. Reprinted with permission from Massachusetts Medical society.

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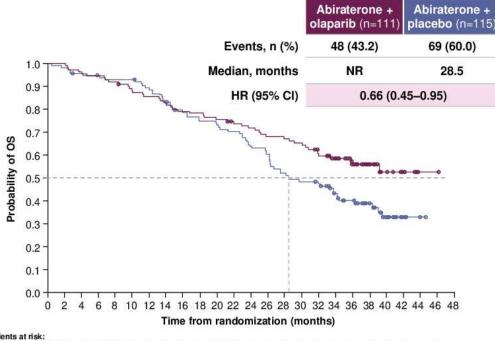
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PROpel: OS in HRRm and non-HRRm subgroups (DCO3)

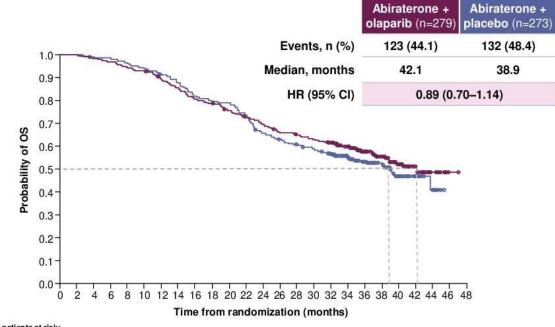
A trend towards OS benefit was observed across HRRm and non-HRRm subgroups ?

HRRm (28.4% of ITT population)



Number of patients at risk: Abiraterone + olaparib 111

111 111 107 105 102 96 94 90 87 86 83 79 77 73 72 70 62 55 115 113 109 107 105 105 99 92 86 82 80 77 51 40 32 22 Abiraterone + placebo 70 66 57 53



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Non-HRRm (69.3% of ITT population)

Number of patients at risk:

 Abiraterone + olaparib
 279
 275
 271
 263
 260
 247
 236
 223
 218
 207
 198
 190
 179
 175
 170
 160
 134
 92
 73
 48
 22
 9
 1
 0

 Abiraterone + placebo
 273
 270
 267
 262
 256
 247
 237
 222
 216
 214
 198
 177
 168
 162
 155
 145
 114
 84
 59
 39
 21
 6
 0
 0

DCO3: 12 October 2022.

The preplanned tumor tissue and plasma ctDNA testing was conducted after randomization and before primary analysis. Results from tumor tissue and plasma ctDNA were combined to determine patients HRRm status (see supplement for more details). 18 patients had unknown HRRm status.

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PROpel Trial: Approved by EMA Dec 21, 2022 mCRPC Olaparib and Abiraterone FDA May 13, 2023 approval for BRCA mutated pts only in mCRPC

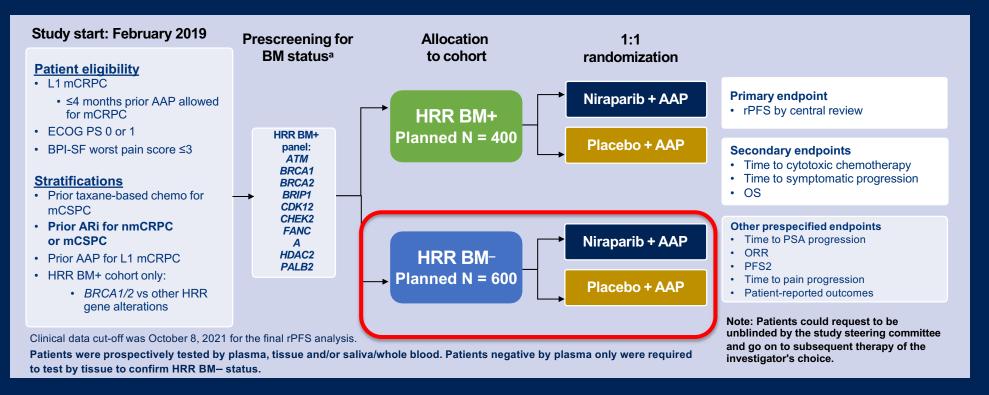
FDA Conclusions



- Statistically significant rPFS improvement in ITT population in PROpel; attributable to BRCAm.
- As certainty regarding absence of tumor *BRCA*m increases, rPFS benefit appears to decrease.
- Potential OS detriment in patients negative for BRCAm by both tumor and ctDNA assays, comprising over half of the ITT population in PROpel (OS HR 1.06).

MAGNITUDE: <u>1st Line mCRPC</u> Randomized, Double-Blind, Placebo-Controlled Study Niraparib + Abi and Pred vs PBO and Abi and Pred

Prospectively selected biomarker cohorts designed to test HRR BM+ and HRR BM-



AAP, abiraterone acetate + prednisone/prednisolone; AR, androgen receptor; ARi, androgen receptor inhibitor; BM, biomarker; BPI-SF, Brief Pain Inventory–Short Form; ctDNA, circulating tumor deoxyribonucleic acid; ECOG PS, Eastern Cooperative Oncology Group performance status; HRR, homologous recombination repair; L1, first line; mCRPC, metastatic castration-resistant prostate cancer; mCSPC, metastatic castration-sensitive prostate cancer; nmCRPC, nonmetastatic castration-resistant prostate cancer; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PFS2, progression-free survival on first subsequent therapy; PSA, prostate-specific antigen; rPFS, radiographic progression-free survival.

^aTissue and Plasma assays: FoundationOne tissue test (FoundationOne[®]CDx), Resolution Bioscience liquid test (ctDNA), AmoyDx blood and tissue assays, Invitae germline testing (blood/saliva), local lab biomarker test results

demonstrating a pathogenic germline or somatic alteration listed in the study biomarker gene panel.





presented by: Kim N. Chi, MD

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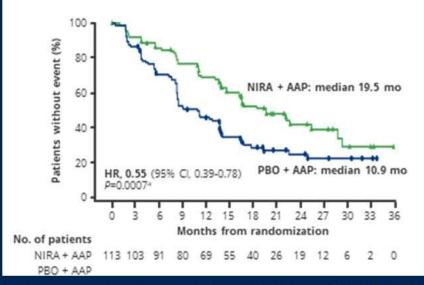




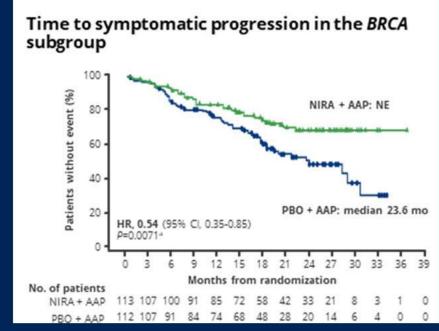
MAGNITUDE BRCA Patients: NIRA + AAP improved rPFS and Time to Symptomatic Progression in the BRCA Subgroup

With additional 8 months of follow-up





- rPFS by central review demonstrated a consistent and clinically meaningful treatment effect favoring niraparib + AAP, with a median rPFS of 19.5 months at IA2 compared with 10.9 months for placebo + AAP
- Investigator Assessed HR (95% CI) 0.46 (0.32,0.67)



A strong improvement in time to symptomatic progression (TSP) was observed ٠ in patients who received niraparib + AAP compared with placebo + AAP

NIRA+AAP reduced the risk of progression or death by 45% in pts with BRCA mutations, extending rPFS by >8 months

ng was performed. Consistent results were observed for rPFS assessed by investigator for both the BRCA Nominal Pvalue

AAP, abiraterone acetate with prednisone; HR, hazard ratio; HRR+, homologous recombination repair positive; NIRA, niraparib; PBO, placebo; rPFS, radiographic progression-free survival

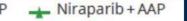




PRESENTED BY: Eleni Efstathiou, MD, PhD

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TALAPRO-2: A Randomized, Double-blind, Placebo-Controlled Study

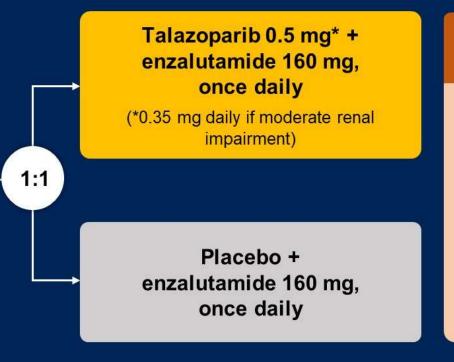
Patient population

- First-line mCRPC
- ECOG performance status (PS) 0 or 1
- Ongoing androgen deprivation therapy

Stratification

- Prior abiraterone^a or docetaxel in castration-sensitive setting (yes vs no)
- HRR gene alteration status (deficient vs nondeficient or unknown) (all-comers cohort only)

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Primary endpoint

rPFS by BICR^b

Key secondary endpoint

Overall survival (alpha protected)

Other secondary endpoints

- Time to cytotoxic chemotherapy
- PFS2 by investigator assessment^c
- Objective response rate (ORR)
- · Patient-reported outcomes
- Safety

Samples prospectively assessed for HRR gene alterations (BRCA1, BRCA2, PALB2, ATM, ATR, CHEK2, FANCA, RAD51C, NBN, MLH1, MRE11A, CDK12) using FoundationOne[®]CDx and/or FoundationOne[®]Liquid CDx

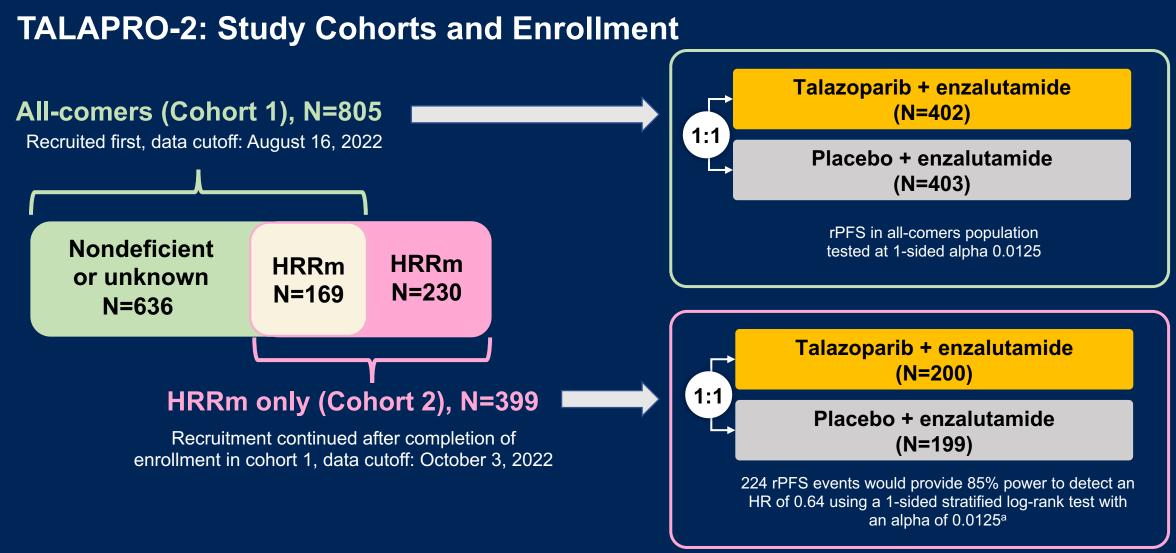
BICR=blinded independent central review; rPFS=radiographic progression-free survival. ^aOne patient in each treatment arm received prior orteronel. ^bPer RECIST version 1.1 (soft tissue disease) and Prostate Cancer Clinical Trials Working Group 3 (bone disease). ^cTime from randomization to the date of documented progression on the first subsequent antineoplastic therapy or death from any cause, whichever occurred first.





Agarwal N et al, Lancet, 2023 Jul 22;402(10398):291-303.





^aAn interim analysis (IA) was planned with ~70% of the total required events. The HRRm cohort would be stopped for efficacy if the pre-specified efficacy boundary was crossed ($P \le 0.003$). As the efficacy boundary was crossed at the IA rPFS, this became the final analysis. Survival and safety follow-up is continuing. All other endpoints are final.



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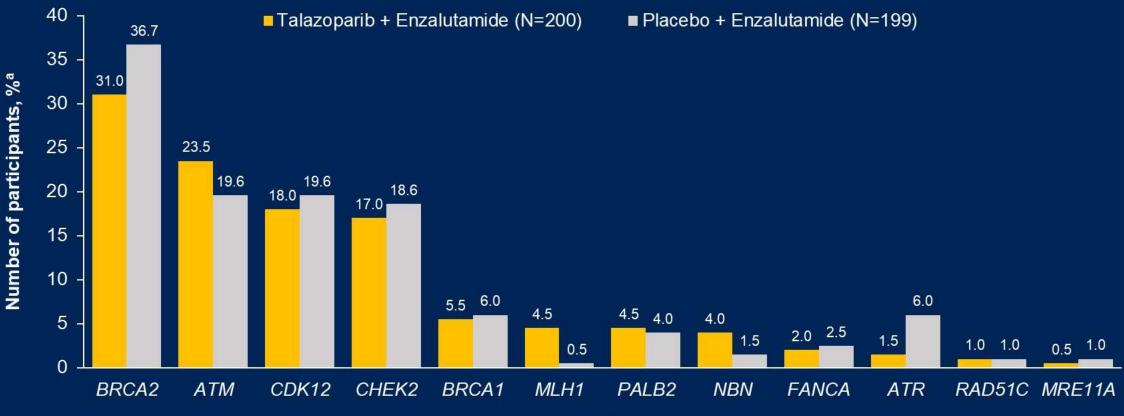
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TALAPRO-2 HRR-Deficient: Baseline HRR Gene Alterations

Representation of HRR gene alterations was consistent with previously published studies



Gene alterations

During the mid-point of the study (January-November 2021), recruitment of patients with ATM and/or CDK12 alterations was paused to avoid over-representation. ^aNumber of participants with one or more alterations in corresponding gene. Three patients (1 in the talazoparib arm and 2 in the placebo arm) did not have HRR gene alterations, and 1 patient in the talazoparib arm was of unknown HRR gene alteration status.

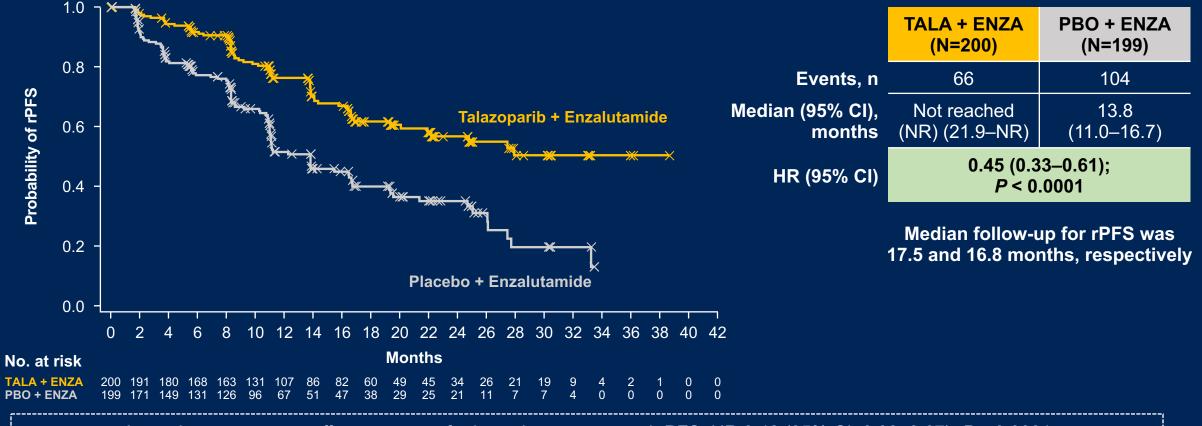


Agarwal N et al Lancet 2023 Jul 22:402(10308):201-303



TALAPRO-2 HRR-Deficient Primary Endpoint: rPFS by BICR

Treatment with talazoparib plus enzalutamide resulted in a 55% reduced risk of progression or death



A consistent treatment effect was seen for investigator-assessed rPFS: HR 0.48 (95% CI, 0.33–0.67); P < 0.0001

Stratified hazard ratios (HRs) and 2-sided P values are reported throughout this presentation unless otherwise stated.



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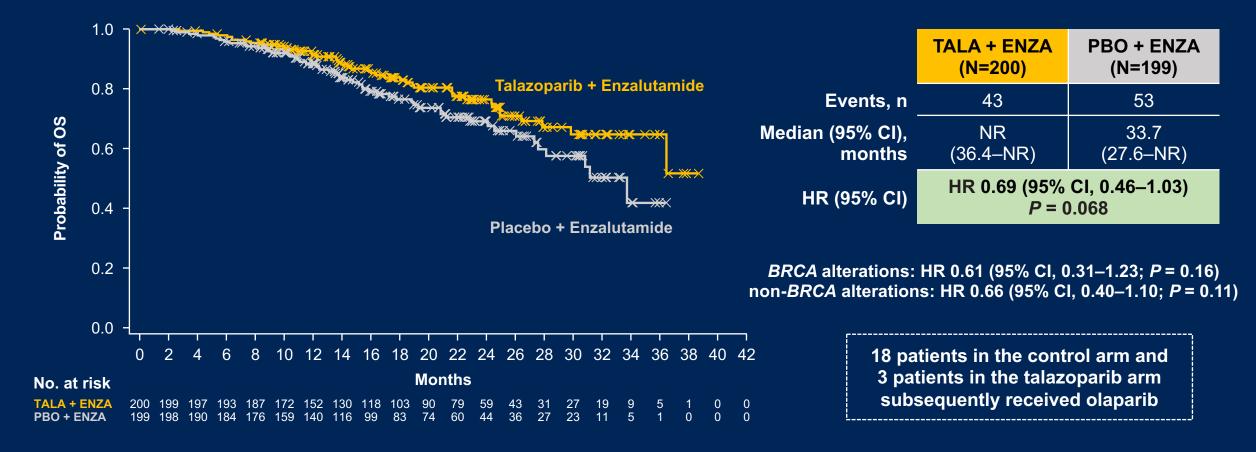


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TALAPRO-2 HRR-Deficient: Overall Survival (Interim Analysis)

Overall survival data are immature (24% maturity overall)





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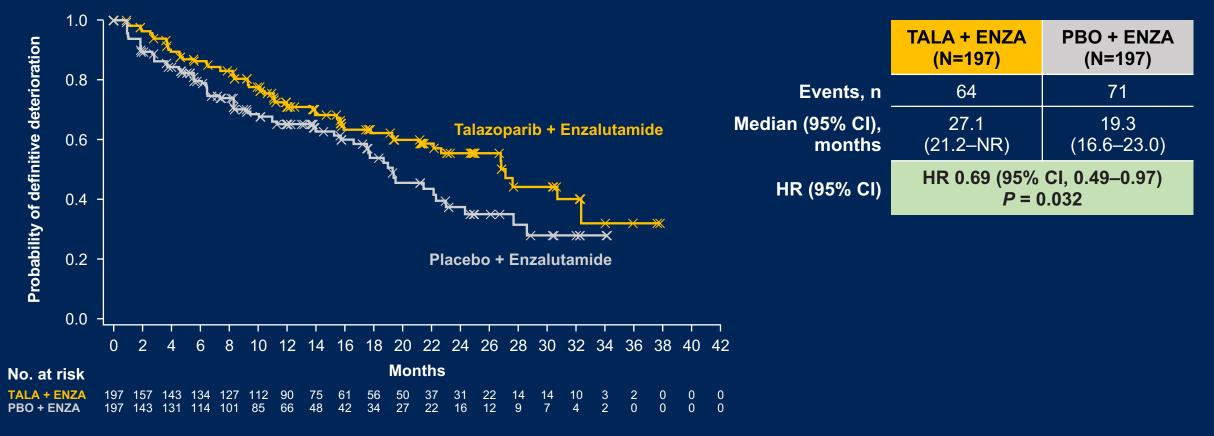
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TALAPRO-2 HRR-Deficient: Patient-Reported Global Health Status

Talazoparib plus enzalutamide significantly prolonged time to definitive clinically meaningful deterioration in GHS/QoL^a



EORTC QLQ-C30=European Organisation for Research and Treatment of Cancer cancer-specific global health questionnaire per EORTC QLQ-C30; GHS=global health status; QoL=quality of life. ^aDefinitive clinically meaningful deterioration defined as a ≥10-point decrease from baseline and no subsequent observations with <10-point decrease from baseline assessed by the EORTC QLQ-C30 (Gamper EM, et al. *BMC Cancer*. 2021;21:1083).



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TALAPRO-2 HRR-Deficient: Conclusions

- In this large, randomized trial involving patients with mCRPC with HRR gene alterations, talazoparib plus enzalutamide resulted in a statistically significant and clinically meaningful improvement in the primary endpoint, rPFS by BICR, over placebo plus enzalutamide
 - rPFS benefit was greater for patients with BRCAm (HR 0.20; 95% CI, 0.11–0.36; P < 0.0001) versus non-BRCAm (HR 0.72; 95% CI, 0.49–1.07; P = 0.10)
 - Although OS data are immature, there was a favorable trend toward improved survival for patients with HRR gene alterations (HR 0.69; 95% CI, 0.46–1.03; P = 0.068)
- No new safety signals were identified on-target anemia was the most common grade 3/4 AE
- Time to definitive clinically meaningful deterioration in GHS/QoL was significantly longer with talazoparib plus enzalutamide versus placebo plus enzalutamide

Talazoparib in combination with Enzalutamide is now approved for 1st line pts with mCRPC and HRR gene alterations by the FDA (June 20, 2023)

Agarwal N et al, Lancet, 2023 Jul 22;402(10398):291-303.





Timeline of PARPi approval for mCRPC illustrating PARP

milestones and prostate cancer milestones

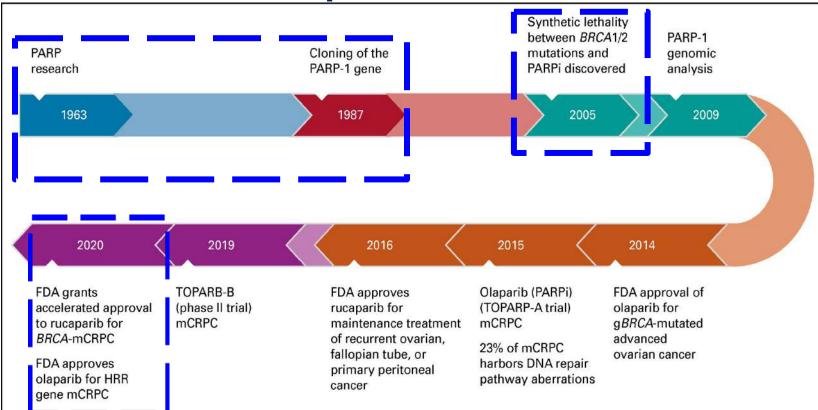
December 21, 2022 EMA grants approval for Olaparib and abiraterone and prednisone

(or prednisolone) for **mCRPC**

May 13, 2023 FDA grants approval for Olaparib and abiraterone and prednisone (or prednisolone) for BRCA-mutated mCRPC

June 20, 2023 FDA grants approval of Talazoparib and enzalutamide for HRR gene mutated mCRPC

August 1, 2023 FDA grants approval for fixed-dose combination of Niraparib and abiraterone acetate for BRCA-mutated mCRPC



HRR, homologous recombination repair; mCRPC, metastatic castration-resistant prostate cancer; PARP, poly (ADPribose) polymerase; PARPi, poly (ADP-ribose) polymerase inhibition.

Prostate-Specific Membrane Antigen

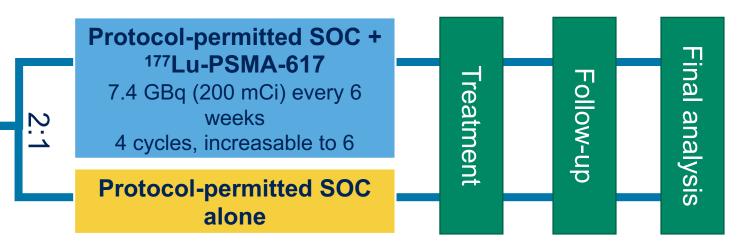
"PSMA is the single most well-established, prostaterestricted, cell membrane target known"

- Luminal expression proximal renal tubules, brush border small intestine, salivary and lacrimal glands (+ neovasculature of most solid tumors)
- Prognosis to PSMA directed RT correlates with PSMA expression intensity
- Heterogeneously expressed in prostate cancer
 - Intratumoral
 - across metastases in the same patient

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

Eligible patients

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



- Randomization stratified by
 - ECOG status (0–1 or 2)
 - LDH (high or low)
 - Liver metastases (yes or no)
 - Androgen receptor pathway inhibitors in SOC (yes or no)

- CT/MRI/bone scans
 - Every 8 weeks (treatment)
 - Every 12 weeks (followup)
 - Blinded independent central review



Michael J. Morris

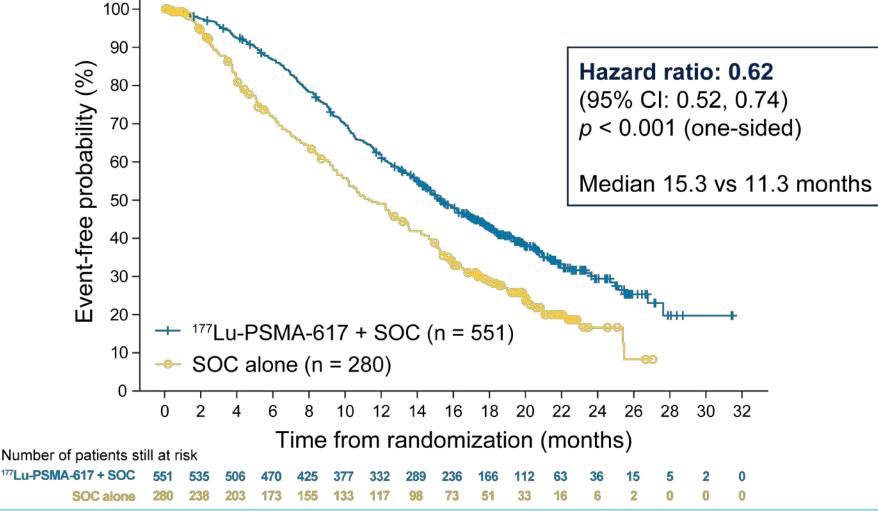
Sartor O et al. N Engl J Med 2021; 385:1091-1103

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Primary endpoints: ¹⁷⁷Lu-PSMA-617 prolonged OS

90 **Primary** Event-free probability (%) 80 analysis 70-All randomized 60 patients 50 -(N = 831)40 -30 · 20 10 0 2 0 Number of patients still at risk



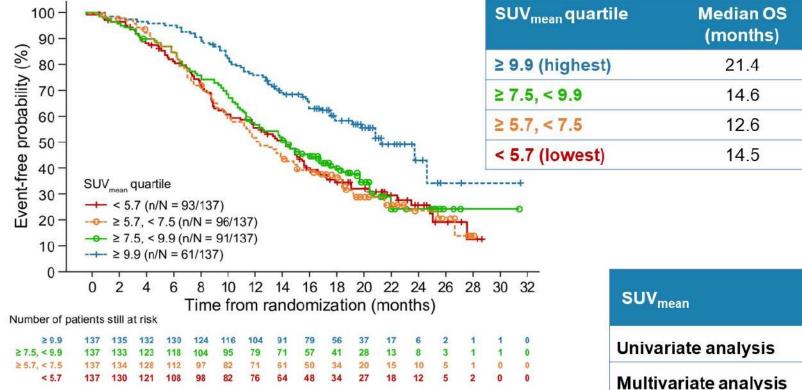
Michael J. Morris Presented By: Sartor O et al. N Engl J Med 2021; 385:1091-1103

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OS by whole-body SUV_{mean} quartiles (FAS)

Higher whole-body SUV_{mean} was associated with improved OS



SUV _{mean}	OS HR [95% Cl], <i>p</i> value			
Univariate analysis	0.92 [0.89, 0.95], < 0.001			
Multivariate analysis	0.88 [0.84, 0.91], < 0.001			

Cl, confidence interval; HR, hazard ratio; FAS, full-analysis set; OS, overall survival; SUV, standardized uptake value



PRESENTED BY: Dr Andrew J Armstrong

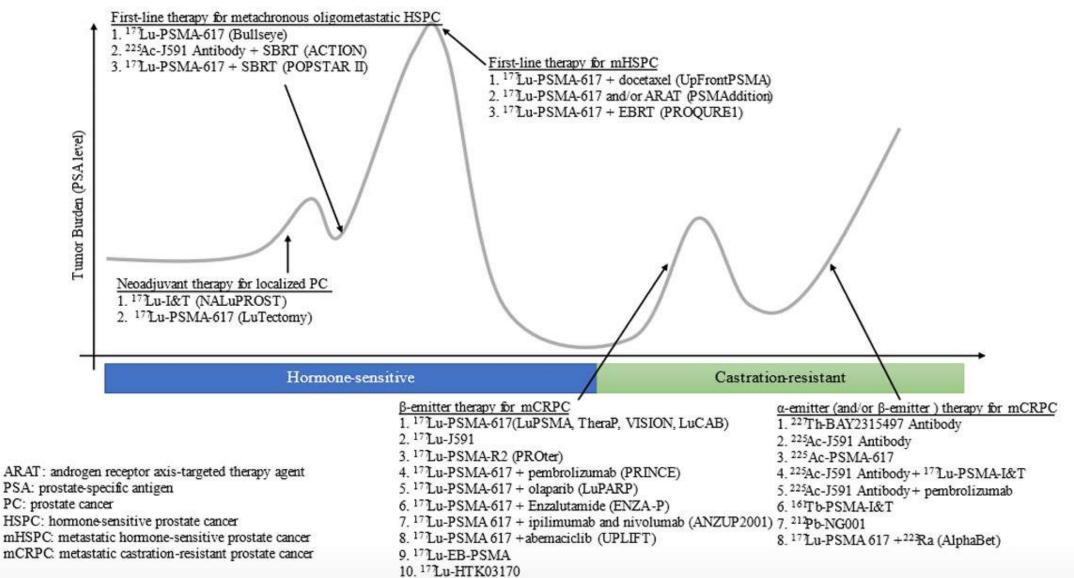
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Theranostics targeting PSMA

- ¹⁷⁷Lu-PSMA-617 and ¹⁷⁷Lu-PSMA I&T
- J591 PSMA labeled antibody (N. Bander at WCM)
- Isotopes
 - Actinium, lead, copper, terbium
- Combination therapies
 - ARSI, immunotherapy, PARP inhibitors, chemotherapy, radiation
- Prostate cancer states

PSMA Theranostic Trials



Hoshi S et al, Curr Oncol. 2023 Aug; 30(8): 7286–7302

Precision Medicine for Prostate Cancer

- Genomic tests have the potential to increase therapeutic options for both localized and advanced prostate cancer patients
- Somatic testing is important given that approximately half of homologous recombination repair (HRR) mutations detected in prostate tumor tissue are germline while the rest are somatic.
- Germline and somatic testing is recommended
- Archived radical prostatectomy specimens are a resource for somatic tissue testing
- Parpi have gained momentum alone and in combination

• Psma Theranostics are a developing resource for pts with PC

Thank you for your attention Englander Institute for Precision Medicine Weil Cornell Medicine Sandra and Edward Meyer Cancer Center

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