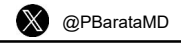




mHSPC: Chemo-hormonal Therapy and Treatment Intensification

Pedro C. Barata, MD, MSc, FACP
Senior Attending Physician
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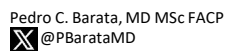
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Disclosures

Consultant: Astellas; AstraZeneca; BMS; Bayer; Caris Life Sciences Eisai; Exelixis; Ipsen; JNJ, Dendreon; Pfizer, Seattle Genetics, Guardant Health; Novartis; MJH; Medscape; UroToday

Contracted Research: AstraZeneca, Merck, BlueEarth Diagnostics, Merck, Exelixis
Caris Life Sciences, ESSA Pharma

Equity: Luminate



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Metastatic Disease is Heterogenous

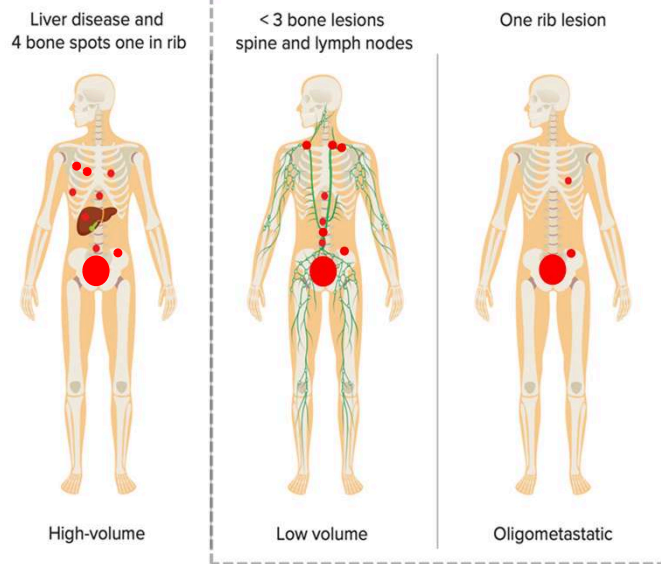
1. Newly diagnosed

- 5%-8%
- ↑ with PSMA PET

2. Recurrent

- More frequent > *de novo*
- ↑ with PSMA PET

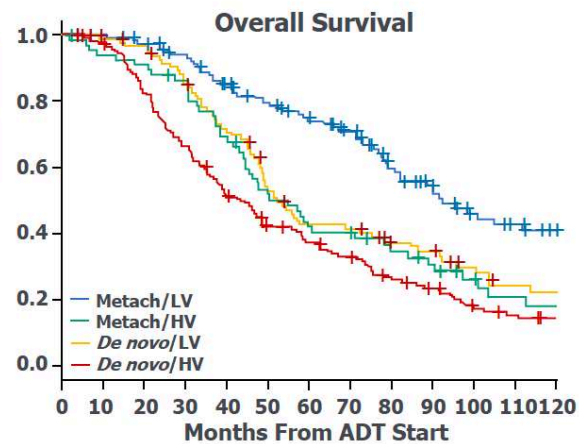
Barata P et al, Cancer 2019; Sorce et al, Prostate 2022; cancer.gov access 2023



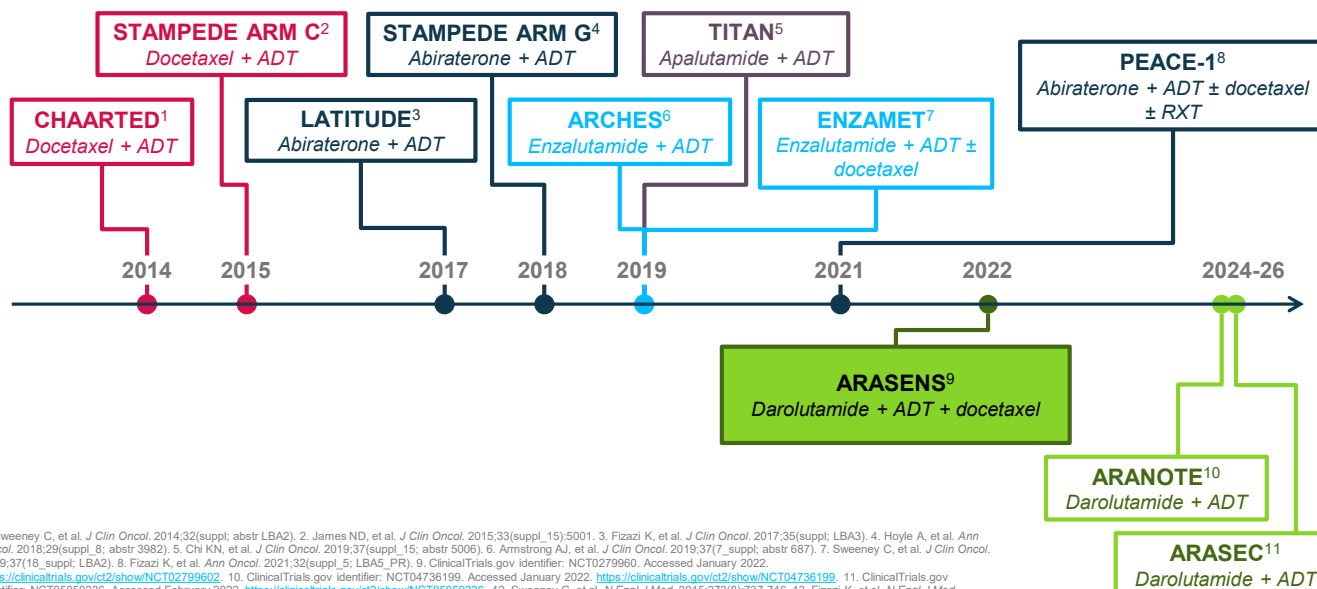
Prognosis according to volume and presentation at diagnosis

High-volume de Novo Metastatic Disease Is Associated With the Poorest Prognosis

Groups	N (% events)	mOS, years (95% CI)
Metach/ Low Vol	125 (50)	7.7 (6.7, 10.6)
Metach/ High Vol	67 (75)	4.6 (3.7, 6.7)
De novo/ Low Vol	96 (70)	4.3 (4.0, 6.5)
De novo/ High vol	148 (84)	3.6 (3.1, 4.7)



The Standard of Care in mHSPC



5

Summary of HR for OS in Phase 3 Trials Evaluating ARPIs in mHSPC

M1 HSPC	All M1	High Volume	Low Volume	M0 at First Diagnosis - Metachronous M1
LATITUDE – Abiraterone (All <i>de novo</i> ; N=1,199)	0.66 (0.58-0.78)	0.62 (0.52-0.74)	0.72 (0.47-1.10)	N/A
STAMPEDE – Abiraterone (>90% <i>de novo</i> ; N=999)	0.60 (0.49-0.71)	0.54 (0.43-0.69)	0.55 (0.41-0.76)	N/A
PEACE-1 – Abiraterone (60% conc docetaxel; N=1,173)	0.82 (0.69-0.98)	0.72 (0.55-0.95)	0.83 (0.50-1.39)	N/A
ENZAMET – Enzalutamide (45% conc docetaxel; N=1,125)	0.67 (0.52-0.86)	0.53 (0.42-1.09)	0.39 (0.21-0.71)	0.56 (0.29-1.06)
TITAN – Apalutamide (10% prior docetaxel; N=1,052)	0.65 (0.53-0.79)	0.70 (0.56-0.88)	0.52 (0.35-0.79)	0.39 (0.22-0.69)
ARCHES – Enzalutamide (18% prior docetaxel; N=1,150)	0.66 (0.53-0.81)	0.66 (0.52-0.88)	0.66 (0.43-1.03)	N/A
ARASENS – Darolutamide + Docetaxel (77% high vol; N=1,305)	0.68 (0.57-0.80)	0.69 (0.57-0.82)	0.68 (0.41-1.13)	N/A
ARANOTE – Darolutamide (72.5% <i>de novo</i> ; N=669)	0.81 (0.59-1.12)	0.80 (0.57-1.13)	0.90 (0.38-2.13)	N/A

Fizazi K, et al. J Clin Oncol. 2019;37(7; suppl):141. Hoyle AP, et al. Eur Urol. 2019;76(6):719-728. James ND, et al. Ann Oncol. 2020;31(suppl_4):S509. Davis ID, et al. N Engl J Med. 2019;381(2):121-131. Chi KN, et al. N Engl J Med. 2019;381(1):13-24. Chi KN, et al. J Clin Oncol. 2021;39(6; suppl):11. Smith MR, et al. N Engl J Med. 2022;386(12):1132-1142. Fizazi K, et al. Lancet. 2022;399(10336):1695-1707. Saad F, et al. J Clin Oncol. 2024;42(36):4271-4281.

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Significance of PSA responses in mHSPC

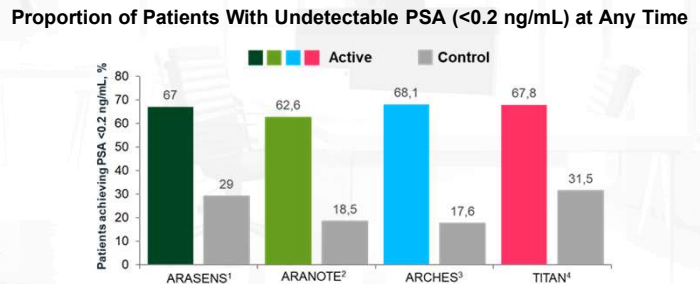
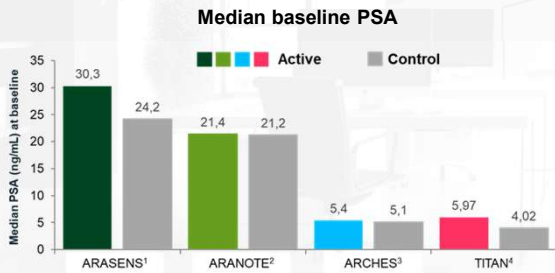
Deep prostate-specific antigen response and overall survival in patients with metastatic castration-sensitive prostate cancer: A systematic review and meta-analysis.

Authors: Syed Arsalan Ahmed Naqvi, Ubay Bin Riaz, Manal Imran, Muhammad Daim Bin Zafar, Kunwer Sulvan Faisal, Zarvab Bin Riaz, Parminder Singh, and Alan Hargov Royce. AUTHORS INFO & AFFILIATIONS

Publication: Journal of Clinical Oncology • Volume 41, Number 6, suppl • https://doi.org/10.1200/JCO.2023.41.6.suppl.195

Outcome	Participants (trials)	Hazard ratio (95% CrI)	Anticipated absolute effects	
			Risk of death without deep PSA response within 8 months	Survival benefit with deep PSA response within 8 months
Overall survival	1980 (4 trials)	0.41 (0.31 to 0.53)	347 deaths per 1,000	187 fewer deaths per 1,000; (223 fewer to 145 fewer)

Meta-analysis from: CHAARTED, LATITUDE, TITAN, PEACE1 and ARASENS



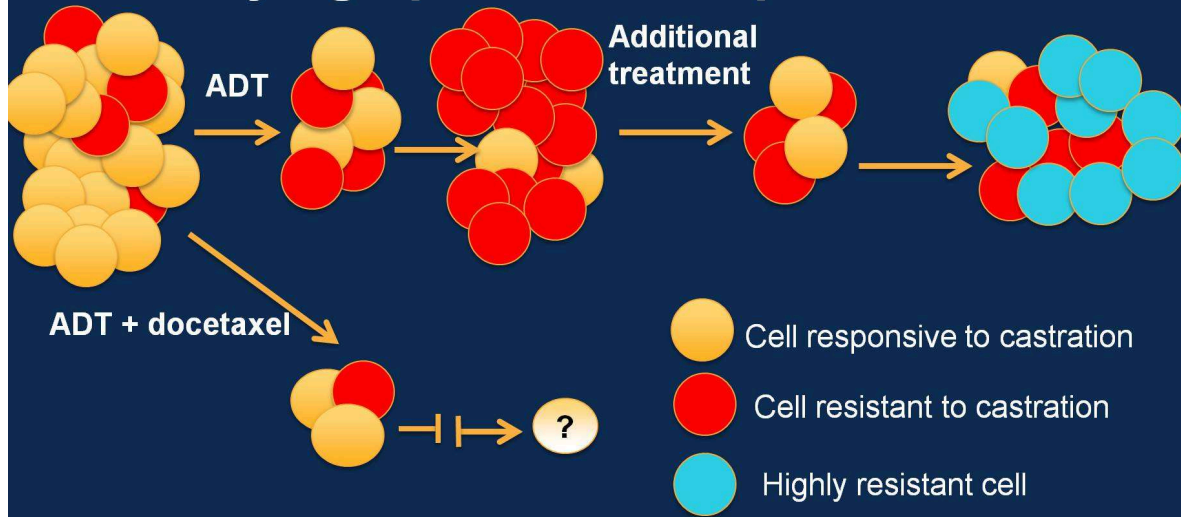
1. Smith MR, et al. N Engl J Med. 2022;386:1132-42. 2. Saad F, et al. J Clin Oncol. 2024;42:4271-81. 3. Armstrong AJ, et al. J Clin Oncol. 2019;37:2974-86. 4. Chowdhury S, et al. Ann Oncol. 2023;34:477-85.



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7

Intensifying up-front tx for prostate CA

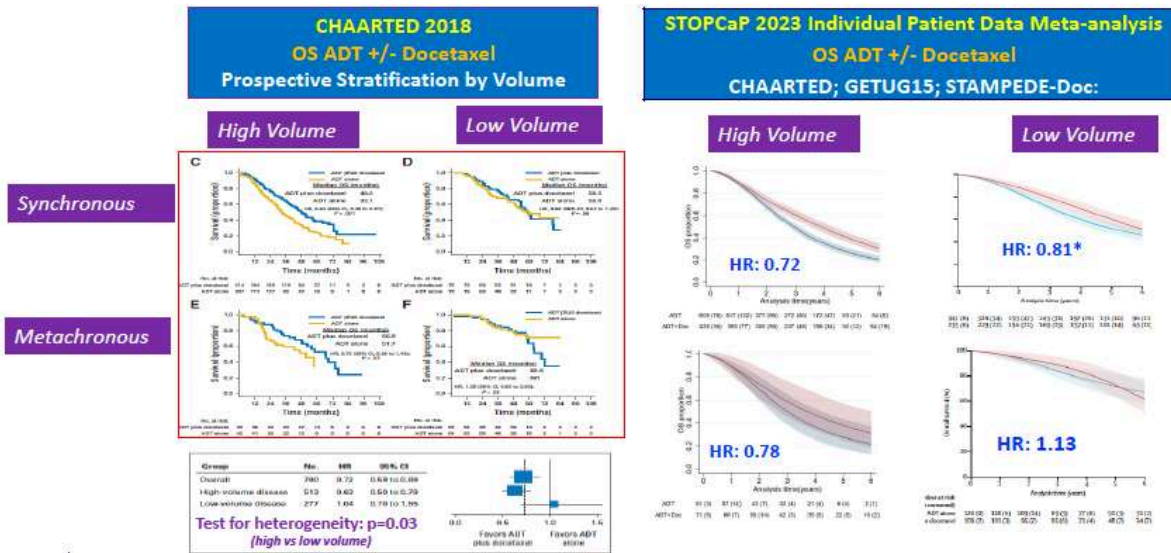


PRESENTED AT: ASCO ANNUAL MEETING '17 | #ASCO17

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Presented by: Tanya Dorff

Clinical Factors predictive for Docetaxel Benefit: Volume



CHAARTED and GETUG-AFU15: Pooled Analysis

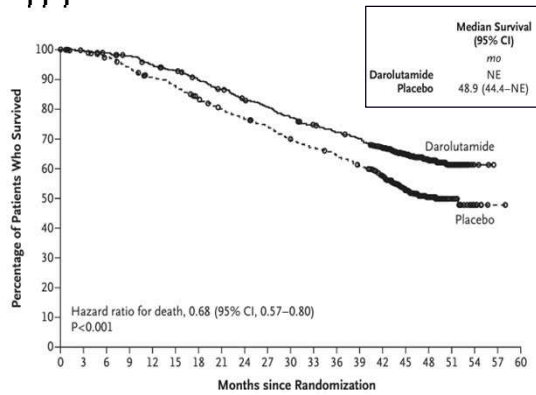
Median and 95% CI overall survival (in months) in the overall population and prespecified subgroups

		Overall population	HV	LV	p value ^a	Upfront	PRLT
		N= 790	N= 513	N= 277		N= 575	N= 214
CHAARTED	ADT + D	57.6 (52; 63.9)	51.2 (45.2; 58.1)	63.5 (58.3; 78.5)		52 (45.5; 58.1)	67.4 (59; 74.3)
	ADT alone	47.2 (41.8; 52.8)	34.4 (30.1; 42.1)	NR (59.8; NR)		39.5 (32.4; 45.2)	NR (57.6; NR)
		N= 385	N= 183	N= 202		N= 272	N= 108
GETUG-AFU15	ADT + D	62.1 (49.5; 73.7)	39.8 (28; 53.4)	NR (69.5; NR)		52.6 (43.3; 66.8)	NR (69.5; NR)
	ADT alone	48.6 (40.9; 60.6)	35.1 (29.9; 43.6)	83.4 (61.8; NR)		41.5 (36.3; 54.5)	69.8 (62.2; NR)
	Pooled average HR (95% CI), p value^c	0.79 (0.67; 0.93)	0.68 (0.56; 0.82)	1.03 (0.77; 1.38)	0.017	0.76 (0.63; 0.92)	0.9 (0.61; 1.33)
p value^d	0.004	<0.001	0.8		0.004	0.6	
		0.07	0.3	>0.9		0.1	0.7

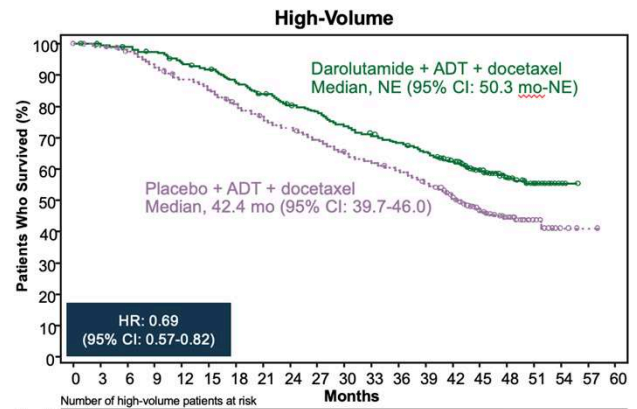
ADT = androgen deprivation therapy; CI = confidence interval; D = docetaxel; HR = hazard ratio; HV = high volume; LV = low volume; NR = not reported; PRLT = prior local treatment.

ARASENS Doc +/- Daro (77% High-Volume / 86% *de novo*) OS

ITT



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



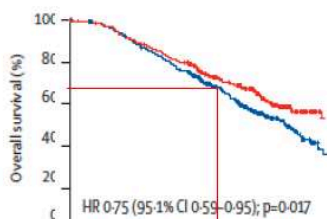
No. of high-volume patients at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	
Darolutamide	497	494	486	479	462	449	429	408	389	378	358	341	319	304	286	269	233	153	72	23	4	1
Placebo	508	502	491	468	444	430	401	378	358	341	319	304	286	269	233	153	72	23	4	1	0	

Hussain M, et al. J Clin Oncol. 2023; doi:10.1200/JCO.23.00041.

11

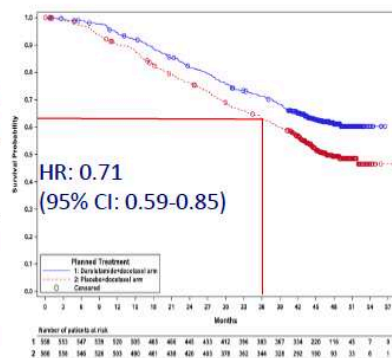
Adding an ARPI to Docetaxel in Synchronous mHSPC Consistently Improves OS

ADT + Doc + Abi > ADT + Doc
PEACE-1¹ (All De novo)

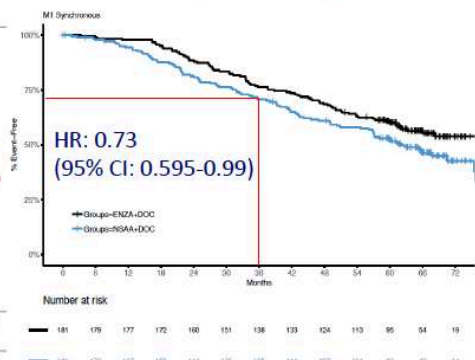


Number at risk	0	1	2	3	4	5
SOC without abiraterone groups	355	329	281	172	78	18
SOC plus abiraterone groups	355	328	287	183	98	25

ADT + Doc + Daro > ADT + Doc
ARASENS² (All De novo)



ADT + Doc + Enza > ADT + Doc
ENZAMET³ (All De novo)



Fizazi Et al. Lancet 2022; Smith et al. NEJM 2022; Sweeney et al. Lancet Oncol 2023

12

Who needs docetaxel?

STAMPEDE docetaxel and abiraterone phase 3 trials

Metastatic prostate cancer

≥ 1 metastases on bone / CT scan

High-risk localised (adjuvant)

Local lymph node positive or if negative, ≥ 2 high risk features:

T3/T4, PSA ≥40ng/ml, Gleason sum 8-10

3909 directly-randomised patients

- ADT +/- docetaxel/docetaxel + zoledronic acid
- ADT +/- ABI

Aim: To link tumour multi-gene expression signatures to 14-year prospective overall survival follow-up

STAMPEDE, Systemic Therapy in Advancing or Metastatic Prostate cancer: Evaluation of Drug Efficacy (MRC-PR08, NCT00268476) www.stampedetrial.org
 STRATOSPHERE (Stratification for Rational Treatment-Oncomarker Pairings of STAMPEDE patients starting long-term Hormone treatment) protocol overseen by the STAMPEDE trial management groups and biological research group

95% synchronous M1



Emily Grist MBBS, MRCP, PhD

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James N et al. Lancet. 2016
 Attard G et al. Lancet Oncol 2023

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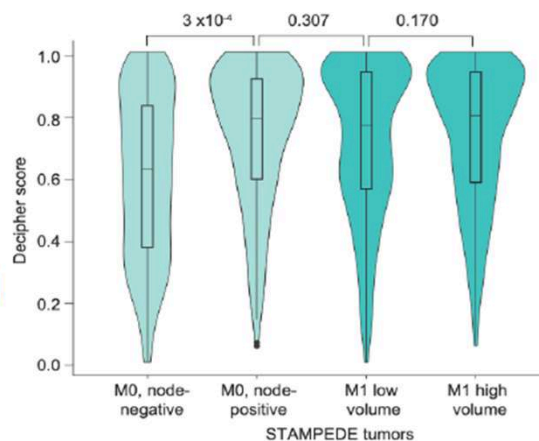
13

Can we use molecular data to identify pts?

Decipher as the example

What is the Decipher classifier?

- 22 mRNA features¹
- Designed to identify biological state associated with metastases
- Prognostic in localised disease²
- Associates with enrichment of cell cycle proliferation pathways



1. Erho N et al. PLOS one. 2013; 2. Nguyen P et al. Int J Radiat Oncol Biol Phys. 2023



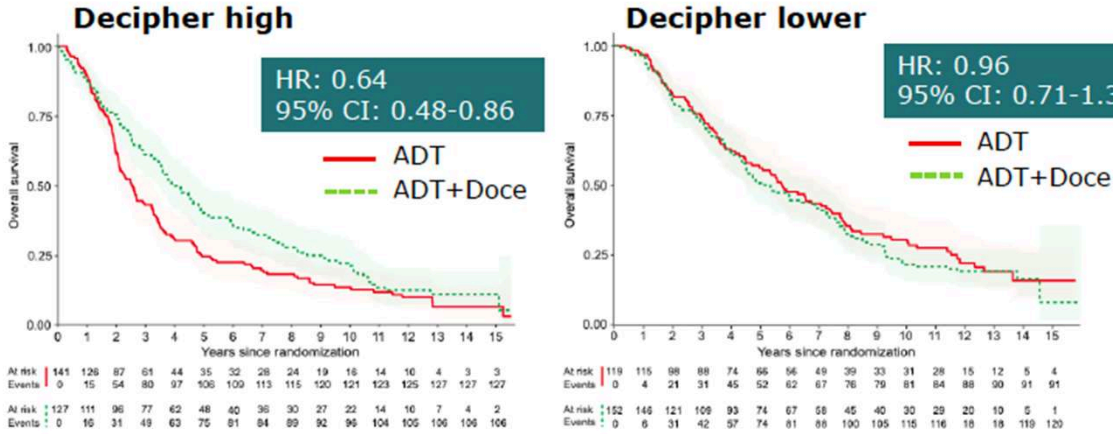
Emily Grist MBBS, MRCP, PhD

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M0, non-metastatic
 M1 metastatic

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Decipher score predicts docetaxel efficacy in metastatic PC



High Decipher score identifies patients more likely to benefit from docetaxel
 Biomarker-treatment interaction effect p value= 0.039*

No significant interaction effect demonstrated in non-metastatic disease

Kaplan-Meier estimates with 95% CI in lighter shade. Decipher score dichotomized around median of metastatic cohort in combined docetaxel and abiraterone trials

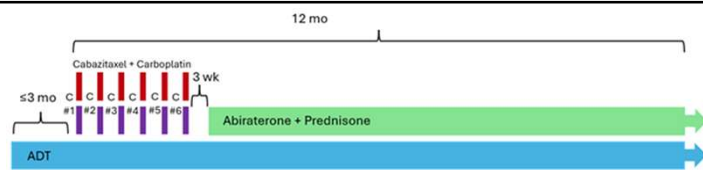


Emily Grist MBBS, MRCP, PhD

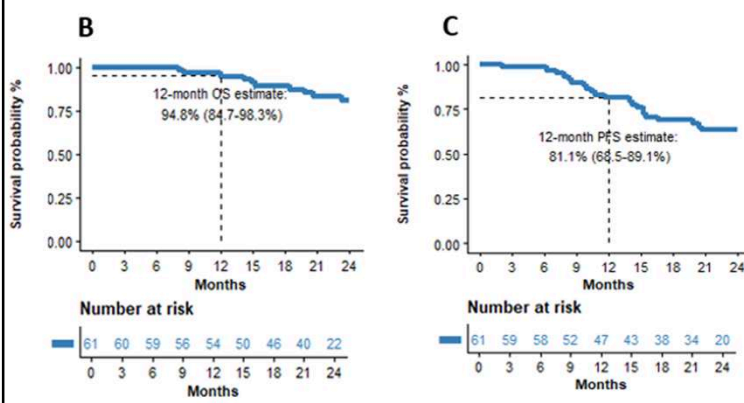
Interaction test from multivariable model adjusted for Gleason score, disease burden, age, pre-ADT PSA, WHO PS, nodal stage, tumor stage, NSAID/aspirin use, and metastatic volume.

15

CASCARA Phase 2 trial More Chemo than Docetaxel?



N=61 pts

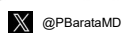


Severity	Grade 1-2	Grade 3-4
Blood and lymphatic system disorders	19 (31.1%)	3 (4.9%)
Anemia	19 (31.1%)	3 (4.9%)
Febrile neutropenia	0	1 (1.6%)
Gastrointestinal disorders	32 (52.5%)	2 (3.3%)
Constipation	7 (11.5%)	0
Diarrhea	15 (24.6%)	0
Nausea	24 (39.3%)	1 (1.6%)
Vomiting	9 (14.8%)	2 (3.3%)
General disorders	32 (52.5%)	2 (3.3%)
Fatigue	32 (52.5%)	2 (3.3%)
Musculoskeletal and connective tissue disorders	8 (13.1%)	0
Muscle spasms	8 (13.1%)	0
Nervous system disorders	8 (13.1%)	0
Peripheral sensory neuropathy	8 (13.1%)	0
Skin and subcutaneous disorders	8 (13.1%)	0
Alopecia	8 (13.1%)	0
Vascular disorders	12 (19.7%)	0
Hot flash	12 (19.7%)	0
Special Considerations		N (%)
Number of Subjects with a Grade 3-5 TEAE		26 (43%)
Number of Subjects with a TEAE that caused a Drug Interruption/Hold		9 (15%)
Number of Subjects with a TEAE that caused a Dose Reduction		4 (6.6%)
Number of Subjects with a TEAE that caused Drug Discontinuation		6 (9.8%)



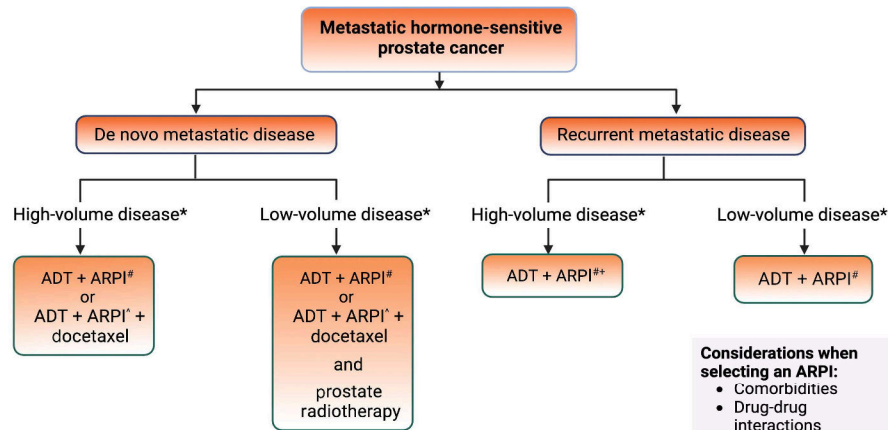
Antonarakis, CCR 2026

Pedro C. Barata, MD MSc FACP



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Treatment Intensification Strategies in mHSPC



*Volume defined as per CHAARTED criteria;
 #Enzalutamide, Apalutamide, or Abiraterone; ADT + Docetaxel if an ARPI unavailable and suitable for chemotherapy.
 ^Enzalutamide, Darolutamide, or Abiraterone. Most evidence supports triplet therapy in de novo high-volume disease.
 *ADT + ARPI + Docetaxel can be considered for recurrent high-volume disease, however data is limited in this patient cohort.

17

CCTG-PR26: Phase 3 TRIPLE-SWITCH

KEY ELIGIBILITY

- mCSPC (any volume/risk)
- Androgen Deprivation 6-12 months
- AR Pathway Inhibitor* \geq 4 months (any of Abiraterone acetate, Enzalutamide, Apalutamide, or Darolutamide)
- PSA \geq 0.2 at enrolment
- Docetaxel naive / eligible
- No evidence of progression by PSA, radiographic, or clinical since ADT

PRIMARY ENDPOINT:

- Overall Survival

SECONDARY ENDPOINTS:

- Time to CRPC, PSA 50/90/ $<$ 0.2/ $<$ 0.02
- ctDNA

mCSPC

ADT 6-12 mo

ARPI* \geq 4 mo

PSA \geq 0.2

ctDNA at registration

RANDOMIZE

1:1

Arm A: Docetaxel
75mg/m² IV q3wk x6
+ ADT + ARPI

ctDNA C2, post C6, PD

Arm B: Standard
ADT + ARPI

STRATIFICATION:

- PSA 0.2-4 vs $>$ 4
- ARPI class
- Liver metastases
- De novo vs Recurrent

SAMPLE SIZE:

- n=830, target HR 0.75

Study Chairs: Michael Ong
(CCTG) and Alexandra
Sokolova (SWOG)



Canadian Cancer
Trials Group



Groupe canadien
des essais sur le cancer



CANCER
RESEARCH
NETWORK

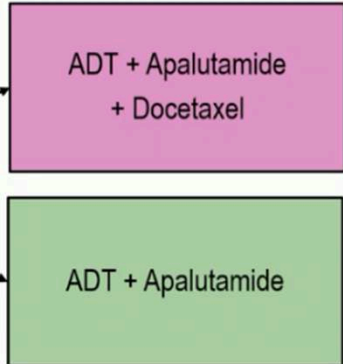
18

A032302 – Phase 3 “ASPIRE” Trial

Key Eligibility Criteria
 All high volume or de novo low volume mCSPC
 ADT +/- ARSI ≤120 days prior to registration
 ECOG PS 0 -2
 Candidate for docetaxel
 NGS results available

TSG (tumor suppressor gene) altered will be defined as any copy number loss or deleterious mutation in one or more of the TSG (TP53, PTEN and RB1) on tissue testing from any CLIA based assay.

n=1200
 1:1
Stratification
 • TSG alteration 0 vs 1 vs 2+
 • Volume of disease



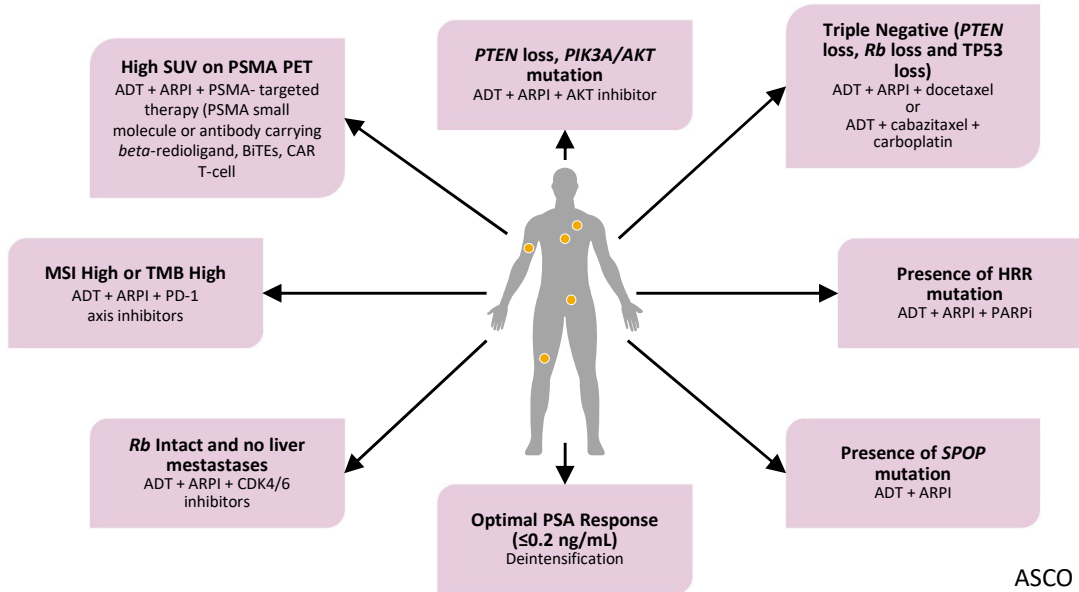
Treatment until disease progression/ withdrawal and long-term follow-up for survival

Primary Endpoint
 • Overall survival

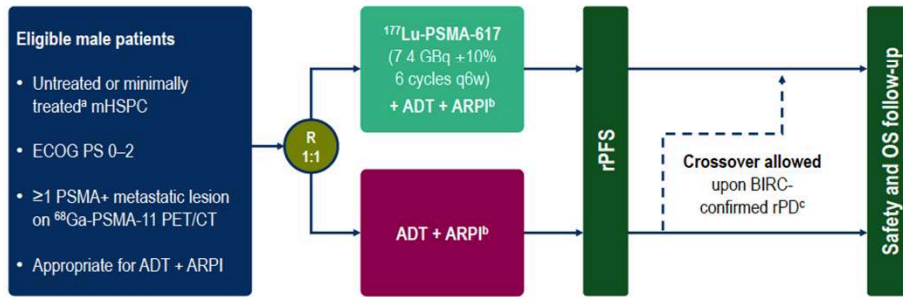
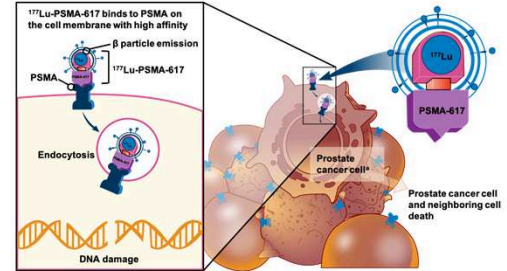
Secondary Endpoints
 • rPFS
 • Time to castration-resistant prostate cancer
 • PSA response at 6 months and relation to rPFS and OS
 • Safety and tolerability

Exploratory Endpoints
 • Prognostic and predictive capability of Artera AI score
 • Prognostic capability of Decipher score
 • PSMA PET scan

Personalizing Treatment Intensification in mHSPC



PSMAddition (mHSPC): ¹⁷⁷Lu-PSMA-617 with SOC vs SOC alone



- Stratification factors**
- Disease volume (high/low) – per CHAARTED criteria¹
 - Age ≥ 70 years (yes/no)
 - Previous or planned treatment of primary tumour by radiation or prostatectomy (yes/no)

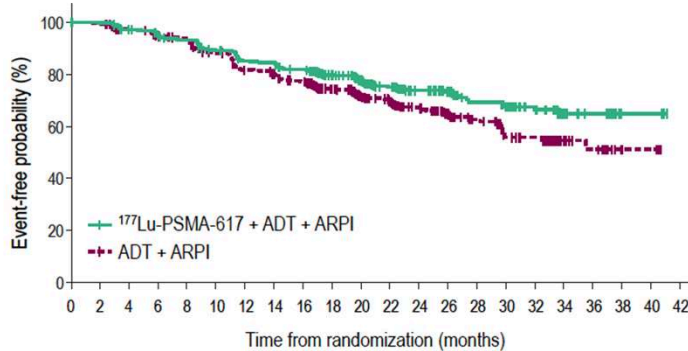
- Follow-up periods**
- rPFS: until event in all patients
 - Safety: 30 days then 24 and 48 weeks after treatment discontinuation
 - OS: every 90 days after last contact

1. <https://www.clinicaltrials.gov/study/NCT04720157>. 2. Tagawa S et al. ASCO 2023. Abstract TPS5116.

21

rPFS by BIRC – the primary endpoint was met

Data cut-off: 13 January 2021



Number of patients still at risk

572 558 539 524 512 485 458 452 436 337 252 212 153 134 79 73 59 23 18 3 3 0
572 550 527 507 495 461 424 408 391 304 225 195 134 99 74 50 47 19 15 4 4 0

PSMA Addition

	¹⁷⁷ Lu-PSMA-617 + ADT + ARPI (N = 572)	ADT + ARPI (N = 572)
Events – n (%)	139 (24.3)	172 (30.1)
rPD	112 (19.6)	152 (26.6)
Death without rPD	27 (4.7)	20 (3.5)
HR (95% CI)	0.72 (0.58, 0.90)	
p value	0.002 ^a	
Median rPFS (95% CI) – months	NR (NE, NE)	NR (29.7, NE)

Immature OS = HR 0.84 (0.63-1.13)

^a Significance threshold at rPFS IA2: 0.009 (one-sided; stratified log-rank test); information fraction, 74.4%
CI, confidence interval; IA, interim analysis; NE, not estimable; NR, not reached

HRR Genes Play an Important Role in Repairing Double-Strand DNA Damage

DNA damage, including double-strand breaks, is a constantly occurring event^{1,2}



DNA double-strand breaks

REPAIR PATHWAYS



HRR genes include^{2,3}:

- ATM
- BRCA1
- BRCA2
- CDK12
- FANCA
- PALB2

Impairment of genes involved in the HRR pathway can affect a cell's ability to accurately repair DNA double-strand breaks^{1,2,4}

ATM, ataxia-telangiectasia mutated; BRCA1, breast cancer susceptibility gene 1; BRCA2, breast cancer susceptibility gene 2; CDK12, cyclin-dependent kinase 12; FANCA, Fanconi anemia, complementation group A; HRR, homologous recombination repair; PALB2, partner and localizer of BRCA2.

1. den Brok WD, et al. *JCO Precis Oncol.* 2017;1:1-13. 2. Lozano R, et al. *Br J Cancer.* 2021;124(3):552-563. 3. Shore N, et al. *Future Oncol.* 2021;17(22):2907-2921. 4. Wagener-Rydzek S, et al. *J Pers Med.* 2021;11(7):612.

HRR+ Pts Have More Aggressive Disease



	Cohort A (N=191)	Cohort B (N=217)	Cohort C (N=52)	p-value Cohort A vs. Cohort B
Age at diagnosis median (range)	63 (45 - 87)	63 (44-89)	60 (43-93)	←
Race/Ethnicity				0.27
Non-Hispanic White	143 (74.9%)	145 (66.8%)	42 (80.8%)	
Non-Hispanic Black	32 (16.8%)	40 (18.4%)	6 (11.5%)	
Hispanic	5 (2.6%)	12 (5.5%)	2 (3.8%)	
Non-Hispanic Asian	4 (2.1%)	5 (2.3%)	0 (0%)	
Other	7 (3.7%)	15 (6.9%)	2 (3.8%)	
Gleason Score				0.09
6	15 (7.9%)	5 (2.3%)	1 (1.9%)	
7	40 (20.9%)	46 (21.2%)	11 (21.2%)	
8-10	114 (59.7%)	131 (60.4%)	36 (69.2%)	←
Unknown	22 (11.5%)	35 (16.1%)	4 (7.7%)	
PSA at diagnosis median (IQR)	18.2 (7.0 - 151.4)	20.7 (8.1 - 126.7)	23.7 (6.2 - 46.2)	0.22
Prior prostatectomy or definitive radiation	98 (51.3%)	123 (56.7%)	36 (69.2%)	0.32
De novo metastatic disease	86 (45.0%)	87 (40.1%)	18 (34.6%)	0.37
Visceral disease	45 (23.5%)	35 (16.1)	6 (11.5%)	--

HRR+ Pts treated with PARPi or Platinum-based chemo:

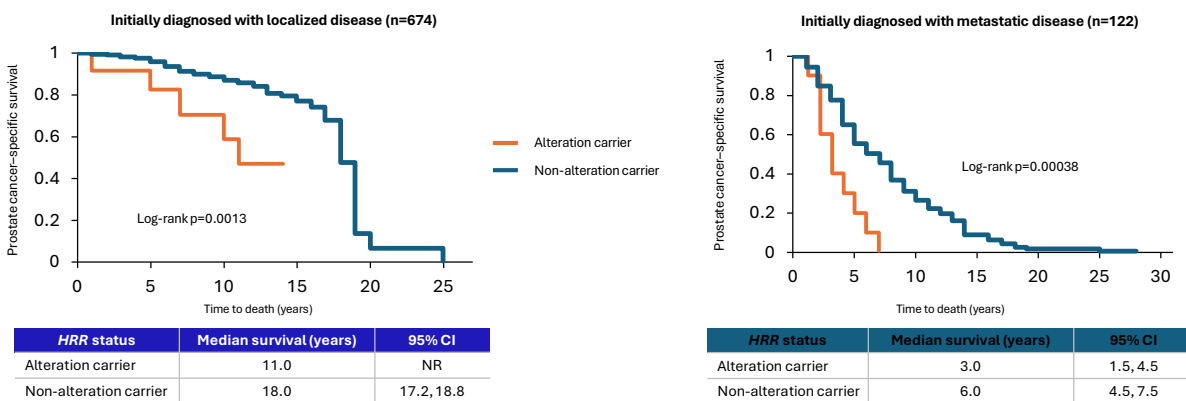
- Younger Patients
- ++ newly diagnosed metastatic disease
- + Higher Gleason Score
- + visceral disease

Cohort A: BRCA1/2
 Cohort B: ATM, CDK12, CHEK1, CHEK2, FANCL
 Cohort C: RAD51B/C/D, RAD54L2, BARD1, GEN1, PALB2, FANCA, BRIP1
 PROMISE consortium

Impact of different *HRR* germline alterations on survival in prostate cancer: *BRCA1/2* and *ATM*¹

- Patients with *BRCA1/2* and *ATM* germline alterations had a significantly shorter survival time when initially diagnosed with localized prostate cancer ($p=0.0013$) as well as with an initial diagnosis of metastatic prostate cancer ($p=0.00038$)

Survival in patients: *HRR* alteration (*BRCA* and *ATM*) carriers versus noncarriers



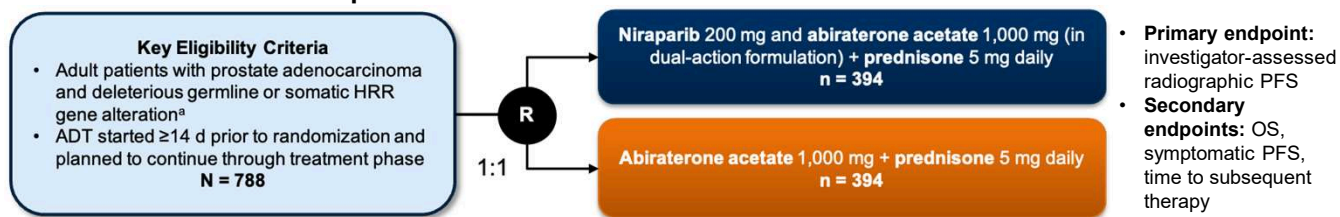
CI, confidence interval; *HRR*, homologous recombination repair; NR, not reported
1. Na R et al. Eur Urol 2017;71:740-7

25

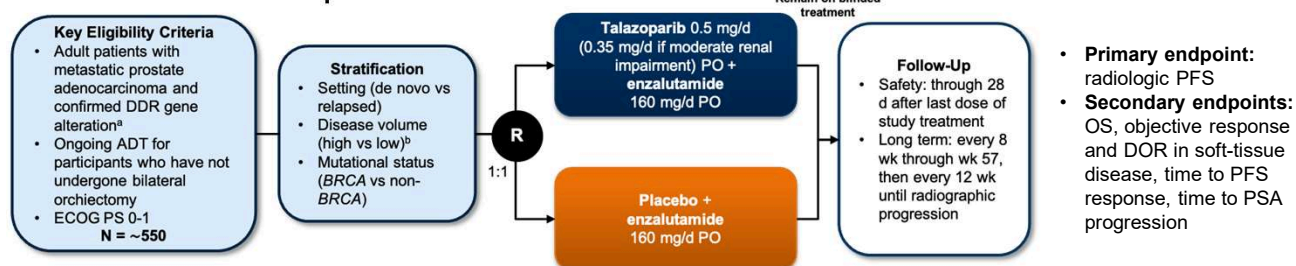
25

Expanding Reach of Combination Approaches Earlier in Disease

Phase 3 AMPLITUDE: Niraparib + AAP in mHSPC¹



Phase 3 TALAPRO-3: Talazoparib + Enzalutamide in mHSPC²



AMPLITUDE: Randomized, Double-Blind, Placebo-Controlled Trial in HRRm mCSPC

First and final rPFS analysis and first interim analysis of time to symptomatic progression and overall survival. Median follow-up: 30.8 months

Key inclusion criteria:

- mCSPC^a
- Alteration in ≥1 HRR eligible gene: *BRCA1, BRCA2, BRIP1, CDK12, CHEK2, FANCA, PALB2, RAD51B, RAD54L*^b
- ECOG PS 0-2

Key exclusion criteria:

- Any prior
 - PARPi
 - ARPI other than AAP

Prior allowed treatments in mCSPC:

- ADT ≤6 months
- Docetaxel ≤6 cycles^c
- AAP ≤45 days
- Palliative RT

Randomized
1:1
(N=696)

**Nira (200 mg QD)
+
AAP (1000 mg QD + 5 mg QD)
+
ADT
(n=348)**

**PBO
+
AAP (1000 mg QD + 5 mg QD)
+
ADT
(n=348)**

Primary end point
• rPFS by investigator review

Key secondary end points
• Time to symptomatic progression
• OS
• Safety

Stratification factors:

- *BRCA2* vs *CDK12* vs all other alterations
- Prior docetaxel (yes vs no)
- Disease volume (high vs low)

Clinical data cutoff: January 7, 2025

^aPatients with lymph node-only disease are not eligible. ^bHRR gene panel was fixed prior to trial initiation based on MAGNITUDE trial and external data from the published literature. ^cLast dose ≤3 months prior to randomization. ECOG PS, Eastern Cooperative Oncology Group performance status; Nira, niraparib; OS, overall survival; PBO, placebo; RT, radiotherapy; QD, once daily.

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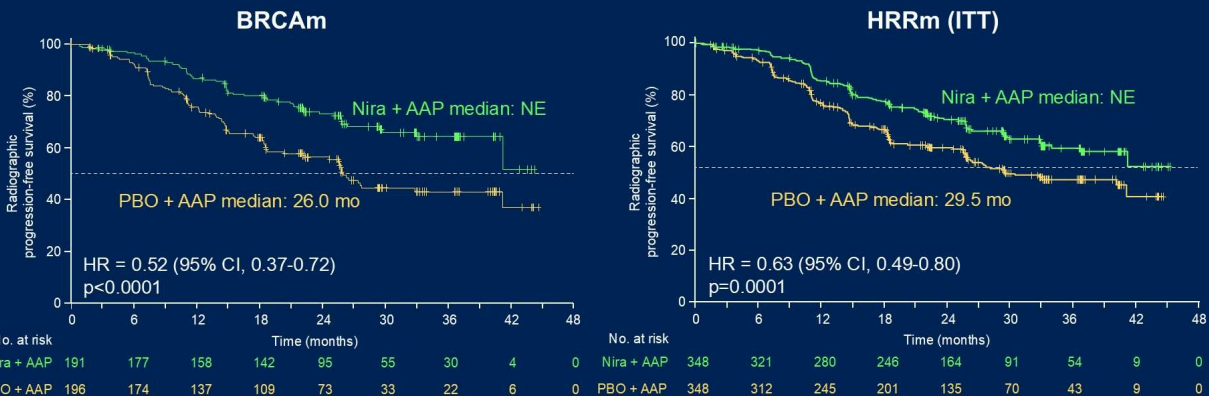
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27

Primary End Point: Radiographic Progression-Free Survival



AMPLITUDE met the primary end point: Nira + AAP significantly reduced the risk of radiographic progression^a or death by 48% in BRCAm group and by 37% in HRRm population

^arPFS by investigator review; rPFS improvement by blinded independent central review was as large: HR = 0.51 (95% CI, 0.37-0.72) for BRCAm group and 0.61 (95% CI, 0.47-0.79) for HRRm group. NE, not estimable.

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28

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TALZENNA Plus XTANDI Significantly Improves Radiographic Progression-Free Survival in Metastatic Prostate Cancer

Thursday, March 19, 2026 - 06:45am | 17 min read



- Primary endpoint met in Phase 3 TALAPRO-3 study demonstrating a statistically significant and clinically meaningful reduction in risk of disease progression or death in HRR gene-mutated metastatic hormone sensitive prostate cancer
- Consistent rPFS efficacy benefit was observed in patients whose tumors harbored BRCA and non-BRCA HRR gene alterations
- Interim analysis showed a strong trend toward improvement in overall survival
- These results will be discussed with global health authorities to potentially expand TALZENNA indication in this earlier stage disease

www.pfizer.com/news/press-release

Biomarker selection: PTEN-loss CAPItello-281 Clinical Study Design

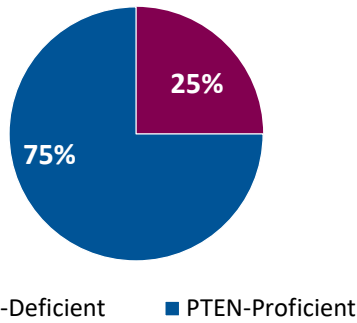
Estimations:

- ~5500 first screening part for biomarker status.
- ~1000 men expected to have PTEN deficiency

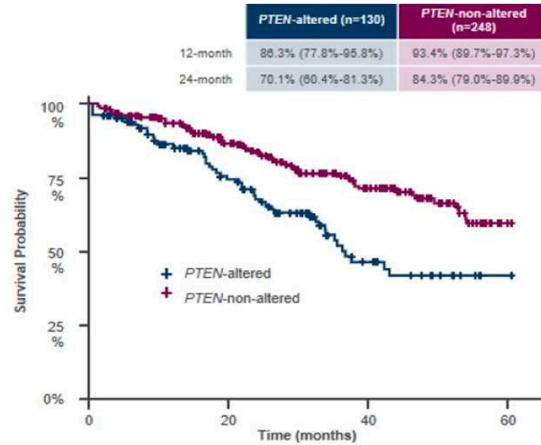


PTEN-Deficiency Is Common in mHSPC and Outcomes on ADT-Based Therapy Are Poor

39,000 cases per year PTEN-Deficiency is present in 25% of patients with mHSPC

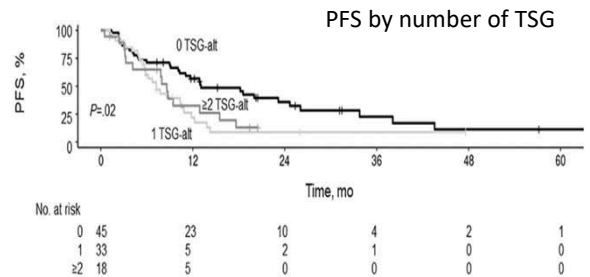
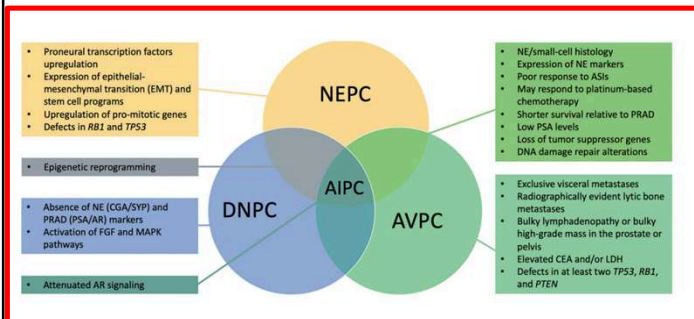


Patients with PTEN-deficient tumors have inferior outcomes on ARPI + ADT-based therapy*



* Real-World OS data in patients with mHSPC receiving ARPI + ADT stratified by PTEN-status

mHSPC with Tumor Suppressor genes (*TP53*, *Rb1*, *PTEN*)

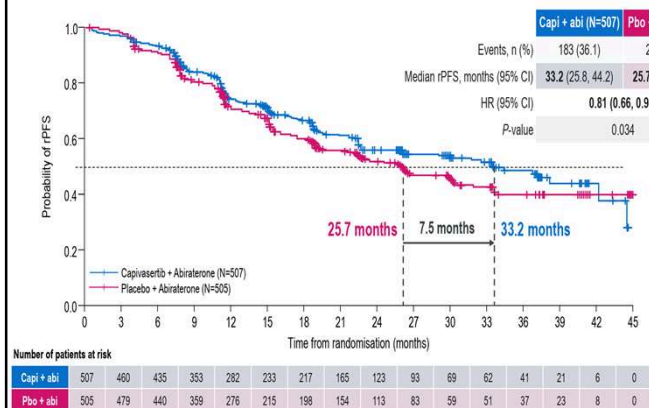


• 17% with 2/3 (AVPC) in mHSPC cohort (N=97 pts)

Characteristic	PFS		OS	
	HR (95% CI)	P	HR (95% CI)	P
TSG-alt (vs TSG-normal)	2.37 (1.42-3.96)	<0.001	1.94 (0.98-3.86)	0.06
Treatment with ADT + D (vs ADT + A)	1.36 (0.81-2.28)	0.20	1.80 (0.84-3.83)	0.13
Prior treatment (vs none)				
Surgery	1.16 (0.48-2.77)	0.70	0.90 (0.28-2.89)	0.90
RT	0.40 (0.13-1.22)	0.11	0.76 (0.15-3.91)	0.70
High disease volume (vs low)	1.82 (0.99-3.33)	0.05	0.98 (0.41-2.32)	>0.90
Mets at diagnosis (vs none)	0.34 (0.15-0.76)	0.009	1.18 (0.41-3.45)	0.80

ADT + A androgen deprivation therapy plus abiraterone acetate, ADT + D androgen deprivation therapy plus docetaxel, HR hazard ratio, Mets metastases, OS overall survival, PFS progression-free survival, RT radiotherapy, TSG-alt tumor suppressor gene alteration.

CAPitello-281: *PTEN* Story



rPFS by tumour *PTEN* deficiency in IPATential-150¹

PTEN deficiency	No. of patients	Median rPFS, mo		HR for Progression or Death (95% CI)
		Placebo + abiraterone	Ipatasertib + abiraterone	
All patients	1101	16.6	19.2	0.84 (0.71, 1.00)
≥10%	771	16.6	17.7	0.84 (0.69, 1.02)
≥20%	684	16.5	17.1	0.81 (0.66, 0.99)
≥30%	618	16.5	17.1	0.82 (0.66, 1.02)
≥40%	575	16.5	17.1	0.82 (0.65, 1.03)
≥50%	523	16.5	18.5	0.77 (0.61, 0.98)
≥60%	489	15.1	19.1	0.72 (0.56, 0.92)
≥70%	462	15.0	18.6	0.72 (0.56, 0.93)
≥80%	424	14.8	18.6	0.71 (0.54, 0.92)
≥90%	335	14.7	18.5	0.72 (0.53, 0.97)
100%	123	16.5	19.2	0.65 (0.39, 1.08)

Ipatasertib (AKTi) + abiraterone better ← → Placebo + abiraterone better



Fizazi et al, ESMO 2025

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33

Barata's Take Home Messages

- Treatment Intensification is SOC for patients with mHSPC;
- Triplet therapy should be strongly considered for selected patients, particularly those with synchronous, high-volume disease
- mHSPC is biologically heterogeneous; clinical factors, disease burden, genomics, and PSA response can help personalize treatment intensity
- Patients who do not achieve an optimal PSA nadir may warrant reassessment of treatment strategy and consideration of additional therapy
- Genomic testing should be considered early, as it identifies patients for potentially actionable alterations



Thank you!



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