



**Inaugural Southern California Genitourinary Cancer Research
Forum**

Key Updates in Prostate Cancer

Tanya Dorff, MD

Division Chief, Genitourinary Disease Program
Professor, Department of Medical Oncology & Therapeutics Research
City of Hope

Disclosures

- Consultant for AstraZeneca, Bayer, Janssen, and Sanofi.

This presentation and/or comments will be free of any bias toward or promotion of the above referenced companies or their product(s) and/or other business interests.

This presentation and/or comments will provide a balanced, non-promotional, and evidence-based approach to all diagnostic, therapeutic and/or research related content.

This presentation has been peer-reviewed and no conflicts were noted.

The off-label/investigational use of Cabozantinib + Atezolizumab, AMG509, and ARV766 will be addressed.

Cultural Linguistic Competency (CLC) & Implicit Bias (IB)

STATE LAW:

The California legislature has passed [Assembly Bill \(AB\) 1195](#), which states that as of July 1, 2006, all Category 1 CME activities that relate to patient care must include a cultural diversity/linguistics component. It has also passed [AB 241](#), which states that as of January 1, 2022, all continuing education courses for a physician and surgeon **must** contain curriculum that includes specified instruction in the understanding of implicit bias in medical treatment.

The cultural and linguistic competency (CLC) and implicit bias (IB) definitions reiterate how patients' diverse backgrounds may impact their access to care.

EXEMPTION:

Business and Professions Code 2190.1 exempts activities which are dedicated solely to research or other issues that do not contain a direct patient care component.

The following CLC & IB components will be addressed in this presentation:

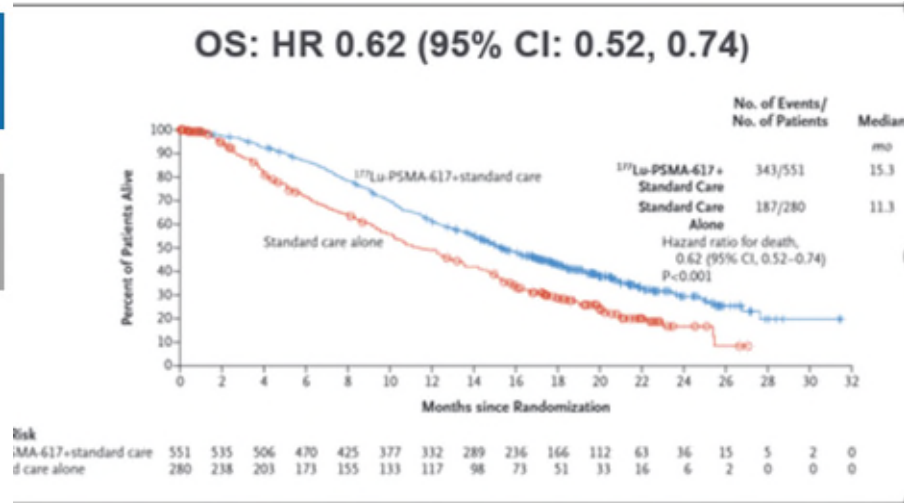
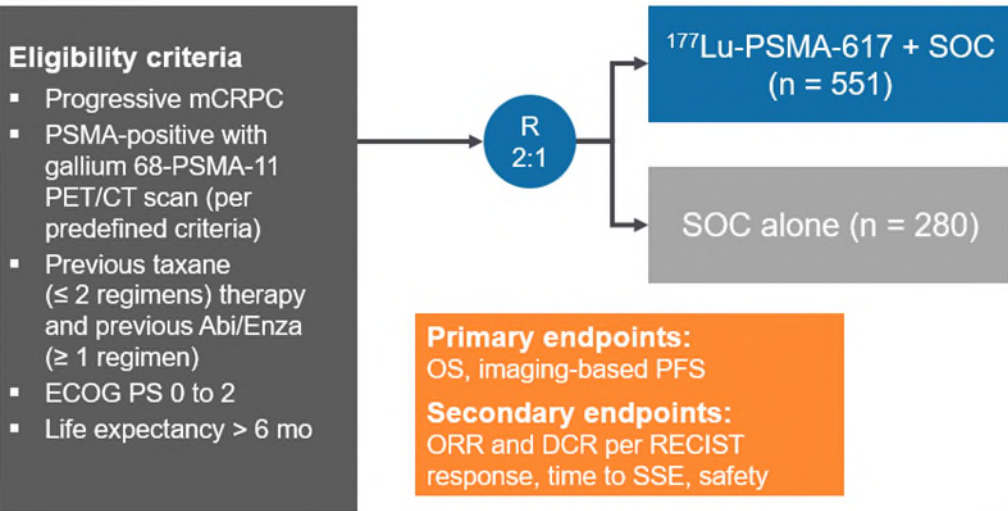
- *Importance of addressing bias and barriers to care based on socioeconomic status and differences in responses that have been noted based on race.*
- *Patients who are underinsured can be treated with older generation drugs.*

New frontiers in prostate cancer

- Antigen targeting therapy
 - Radioligand (177-Lu-PSMA-617)
 - Bispecific T cell engaging antibodies
 - Antibody-drug conjugates (ABBV 969)
- Combination immunotherapy
 - Cabozantinib + Atezolizumab (CONTACT 02)
- PARP inhibitors
- AR degraders
 - ARV 110, ARV 766 and beyond

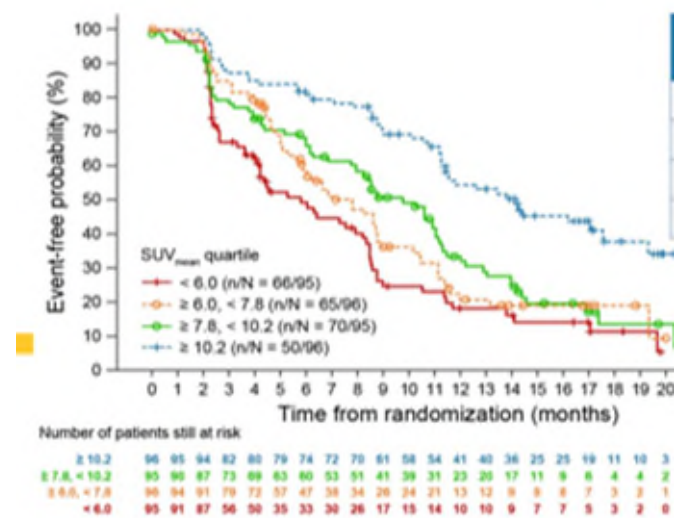
VISION: ¹⁷⁷Lu-PSMA-617 radioligand therapy selection by PET “theranostic”

>80% crossover!



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

- PSMA-positive metastatic lesion
 - PSMA-PET positivity defined as uptake ≥ liver
- No size criteria for PSMA-positive lesions
- No PSMA-negative visceral or lytic bone lesions ≥ 1 cm
- No PSMA-negative lymph node lesions ≥ 2.5 cm



VISION: side effect profile

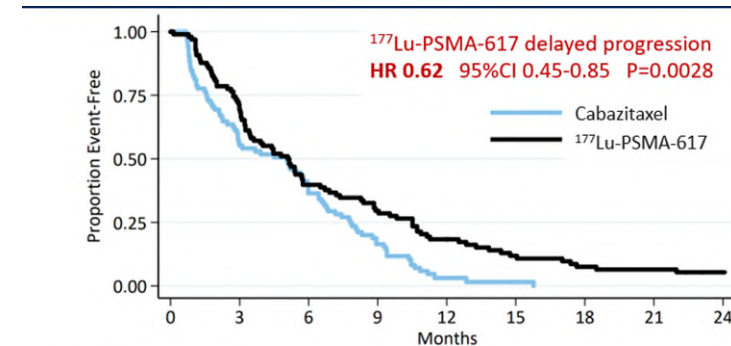
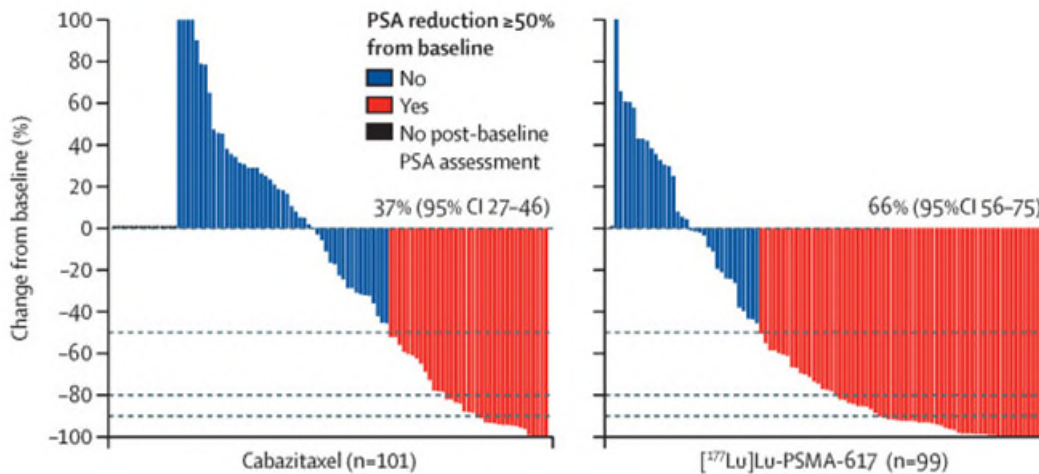
TEAEs Occurring in ≥ 5% of Patients, No. (%)	Safety Set (N = 734)			
	All Grades		Grade 3-5	
	Lutetium 177-PSMA-617 + SOC (n = 529)	SOC Alone (n = 205)	Lutetium 177-PSMA-617 + SOC (n = 529)	SOC Alone (n = 205)
Fatigue	228 (43.1)	47 (22.9)	31 (5.9)	3 (1.5)
Dry mouth	205 (38.8)	1 (0.5)	0	0
Nausea	187 (35.3)	34 (16.6)	7 (1.3)	1 (0.5)
Anemia	168 (31.8)	27 (13.2)	68 (12.9)	10 (4.9)
Back pain	124 (23.4)	30 (14.6)	17 (3.2)	7 (3.4)
Arthralgia	118 (22.3)	26 (12.7)	6 (1.1)	1 (0.5)
Decreased appetite	112 (21.2)	30 (14.6)	10 (1.9)	1 (0.5)
Constipation	107 (20.2)	23 (11.2)	6 (1.1)	1 (0.5)
Diarrhea	100 (18.9)	6 (2.9)	4 (0.8)	1 (0.5)
Vomiting	100 (18.9)	13 (6.3)	5 (0.9)	1 (0.5)
Thrombocytopenia	91 (17.2)	9 (4.4)	42 (7.9)	2 (1)
Lymphopenia	75 (14.2)	8 (3.9)	41 (7.8)	1 (0.5)
Leukopenia	66 (12.5)	4 (2)	13 (2.5)	1 (0.5)

Marrow reserve will dictate sequences and combinations

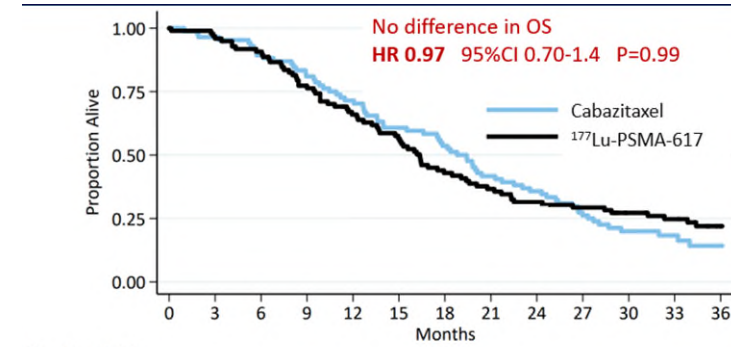
How does 177-Lu-PSMA-617 compare to chemotherapy?

TheraP: phase II Lu177-PSMA vs Cabazitaxel

- PSMA PET inclusion: SUVmax >20 at any site and no FDG+/PSMA- sites (28% excluded)
- Post docetaxel and ARPi



Number at risk	0	3	6	9	12	15	18	21	24
Cabazitaxel	101	47	31	14	2	1	0	0	0
Lu-PSMA	99	68	39	29	17	11	7	6	3



Number at risk	0	3	6	9	12	15	18	21	24	27	30	33	36
Cabazitaxel	101	82	75	68	60	51	45	35	30	22	14	9	6
Lu-PSMA	99	94	88	75	63	54	41	35	30	28	23	20	11

Can we use ¹⁷⁷Lu-PSMA-617 before chemotherapy?

PSMAfore

Sartor O, et al
ESMO 2023; LBA13

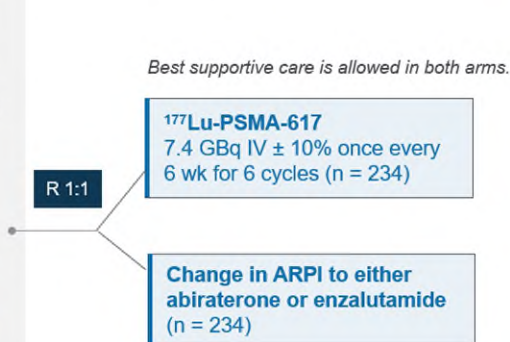
Eligibility criteria

- Progressive, mCRPC, taxane-naïve in the metastatic setting and have received 1 prior ARPI and are candidates for a change in ARPI
- ECOG PS 0 or 1
- ≥ 1 PSMA-positive metastatic lesion on GA-PSMA-11 PET/CT and no exclusionary PSMA-negative lesions

Stratification factors:

- Prior ARPI use
- Pain symptomatology score

PSMAfore (NCT04689828) is a multicenter, open-label, randomized phase 3 trial



Primary endpoints: rPFS according to PCWG3-modified RES

Key secondary endpoint: OS

Other secondary endpoints: rPFS2, PFS, PFS2, PSA50, time to SSE, time to soft tissue progression, time to chemo, HRQoL, and safety and tolerability

Participants with blinded independent centrally confirmed radiographic progression in the ARPI arm can cross over to the ¹⁷⁷Lu-PSMA-617 arm.

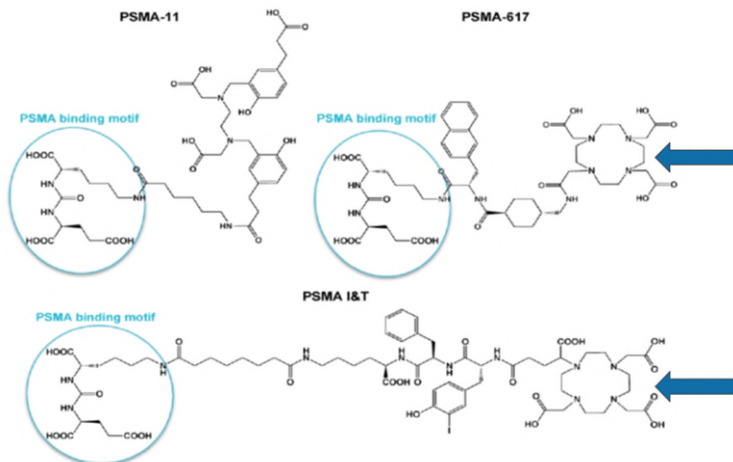
Baseline Characteristics	¹⁷⁷ Lu-PSMA-617 (n = 234)	ARPI Change (n = 234)
Age, median (range), y	71 (43-94)	72 (53-91)
White, n	211	214
ECOG 0	146	115
ECOG 1	86	114
Gleason score 8 to 10, n	136	107
PSA, median (range), µg/L	18.4 (0-1197)	14.9 (0-4224)
Hemoglobin median, g/L	128	129
Alkaline phosphatase, median IU/L	100	100.3
Site of disease, n		
▪ Liver	13	7
▪ Lymph node	76	74
▪ Bone	205	203
Prior ARPI, n		
▪ Abiraterone	119	130
▪ Enzalutamide	94	84
▪ Other	21	20

Second OS IA (DCO, 21 Jun 2023; median follow-up, 15.9 months)	¹⁷⁷ Lu-PSMA-617 (N = 234)	ARPI change (N = 234)
Cycles, median (range)	6.0 (1–6)	—
rPFS ^a		
Events, n (%)	115 (49.1)	168 (71.8)
Median (95% CI), months	12.02 (9.30, 14.42)	5.59 (4.17, 5.95)
HR (95% CI), p	0.43 (0.33, 0.54), <0.0001	

OS not mature, but trending in opposite direction

Ongoing clinical trials with radioactive targeted therapy

Name/NCT	Agents	Design (n)
PSMAAddition	ADT + ARPi +/- 177Lu-PSMA-617	Randomized phase III, mHSPC
LUNAR NCT05496959	SBRT +/- 177Lu-PNT2002	Randomized phase II, oligomet prostate cancer
PRESERVE-006 NCT05682443	ONC392 + 177Lu-PSMA-617	Phase 1 mCRPC
PRINCE NCT03658447	177Lu-PSMA-617 + pembrolizumab	Phase 1b/II mCRPC
Mayo NCT06200103	177Lu-PSMA-617 de-escalation	Phase IV; stop after 5 vs 6 cycles
U W NCT06145633	Vorinostat and 177Lu-PSMA-617 for the Treatment of PSMA-Low mCRPC	Phase II
UPLIFT NCT05113537	Abemaciclib Before 177Lu-PSMA-617 for the Treatment of mCRPC	Phase I/II



What's next:

Different particles (ex: Ac²²⁵, Pb, I¹³¹)

Different PSMA binders

Different protein targets (ex: hk2)

?Adaptive dosing

Combinations, mHSPC

Bispecific T cell engaging antibodies for prostate cancer

- **AMG 160: targets PSMA (1:1 with CD3)**
 - phase 1 showed robust response rate but limited by anti-drug antibodies
 - Toxicity limited ability to pursue phase 3
- **AMG 509: targets STEAP1 (2:1 with CD3)**
 - Dose escalation presented at ESMO 2023. better toxicity & efficacy
 - Likely going to phase 3
- JNJ-63898081: (PSMA 1:1 with CD3)
 - N=39, CRS in 65%, DLT transaminase elevation. 2 PSA 50, no objective response

AMG160: adverse events

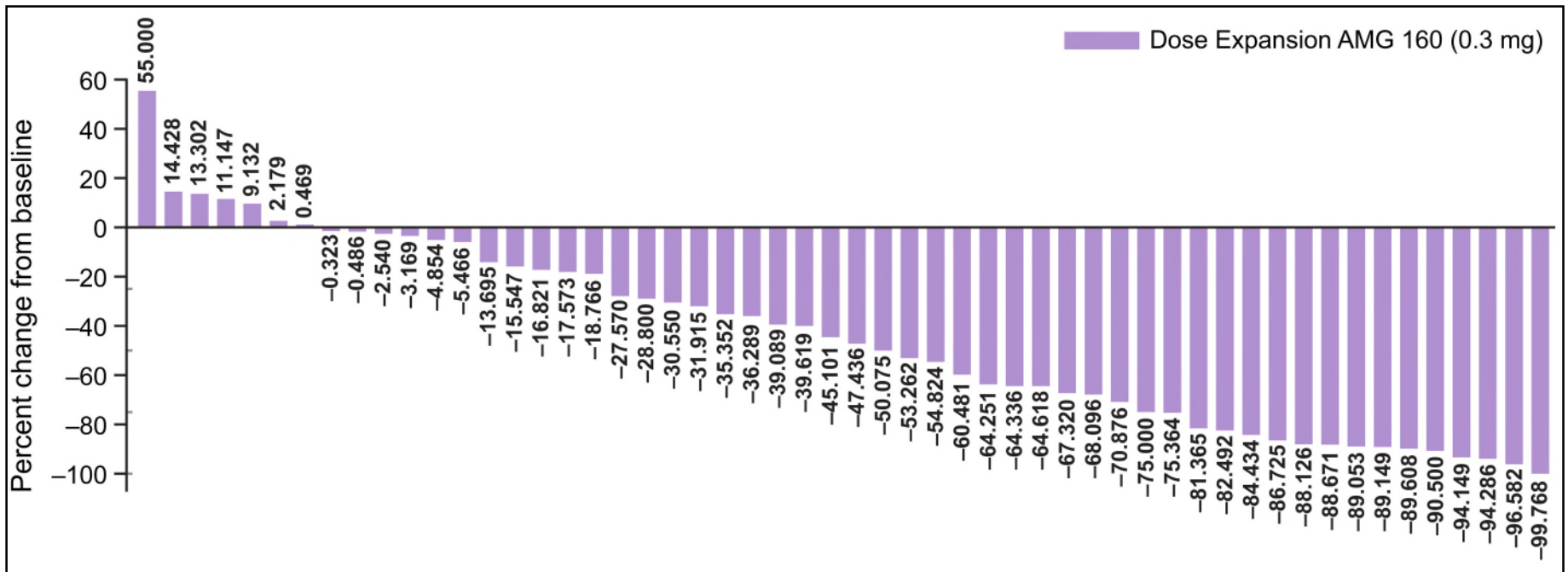
TEAE	Dose expansion (N = 56)	
	Any grade n (%)	Grade \geq 3 n (%)
Cytokine release syndrome	55 (98.2)	9 (16.1)*
Anemia	20 (35.7)	11 (19.6)
Hypophosphatemia	20 (35.7)	9 (16.1)
Alanine aminotransferase increased	12 (21.4)	3 (5.4)
Aspartate aminotransferase increased	11 (19.6)	3 (5.4)
Platelet count decreased	8 (14.3)	3 (5.4)*
Hypertension	4 (7.1)	3 (5.4)
Neutropenia	4 (7.1)	4 (7.1)*

*Includes one patient who experienced a grade 4 event
Abbreviation: TEAE: treatment-emergent adverse event

Dorff TB et al, Clin Cancer Res 2024

<https://doi.org/10.1158/1078-0432.CCR-23-2978>

PSA response with AMG160 at full dose



Dorff TB et al, Clin Cancer Res 2024

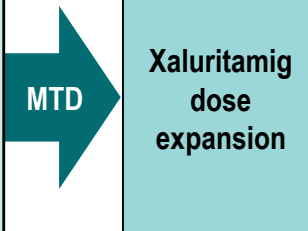
<https://doi.org/10.1158/1078-0432.CCR-23-2978>

AMG509 phase 1 dose escalation (Kelly WK et al, ESMO 2023)

Dosing schedule: 28-day cycles; QW dosing (except C7c); treatment until progression* or unacceptable toxicity

Dose exploration guided by BLRM for toxicity

No Step	1-Step	2-Step	3-Step
C1: 0.001 mg C2: 0.003 mg C3: 0.01 mg C4: 0.03 mg C5: 0.1 mg C6: 0.3 mg	C7a: 0.1 → 0.3 mg C8: 0.3 → 1.0 mg C10: 0.1 → 1.0 mg	C7b: 0.1 → 0.3 → 1 mg C7c: 0.1 → 0.3 → 1 mg (Q2W) C9: 0.1 → 0.3 → 0.75 mg	C11: 0.1 → 0.3 → 1 → 1.5 mg C12: 0.1 → 0.3 → 0.75 → 1.5 mg C13: 0.1 → 0.3 → 1 → 2 mg



Pre-medication adjusted during C7a[†] →

■ Not tolerable ■ MTD

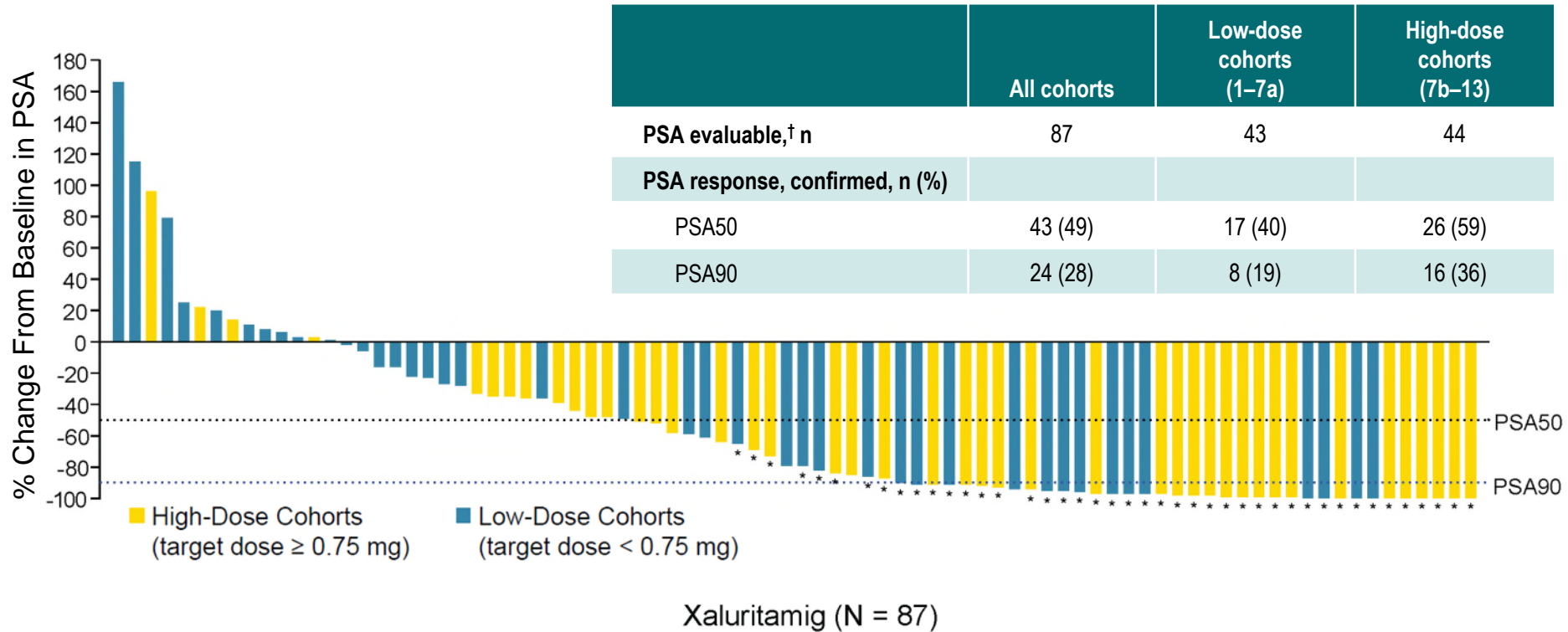
MTD was identified as 1.5 mg IV QW (3-step, D1 0.1 mg / D8 0.3 mg / D15 1.0 mg / D22+ 1.5 mg)

*Treatment beyond progression was allowed in patients deriving clinical benefit per PCWG3 criteria.

[†]Pre-medication post adjustment: steroids (2 doses) 6–12 hours and 1 hour pre-dose until target dose is reached; acetaminophen and IV hydration 1 hour prior for all doses in cycle 1.

BLRM, Bayesian logistic regression model; C, cohort; D, day; IV, intravenous; MTD, maximum tolerated dose; PCWG3; Prostate Cancer Working Group 3; QW, weekly; Q2W, every 2 weeks.

Confirmed PSA responses were observed across cohorts



*Confirmed PSA responders of PSA50 or better.

[†]10 patients were not PSA evaluable: 6 patients were missing baseline PSA values, and 4 patients did not have sufficient follow-up duration.
PSA, prostate-specific antigen.

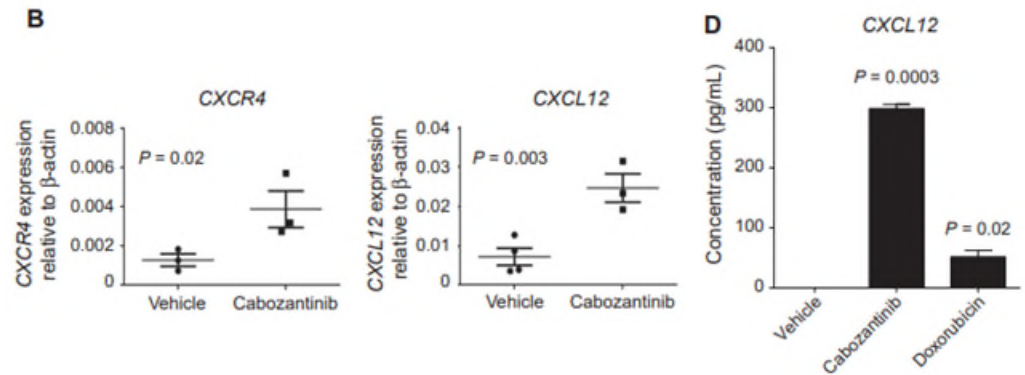
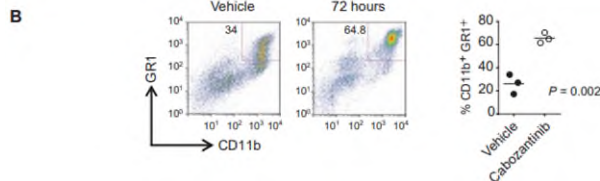
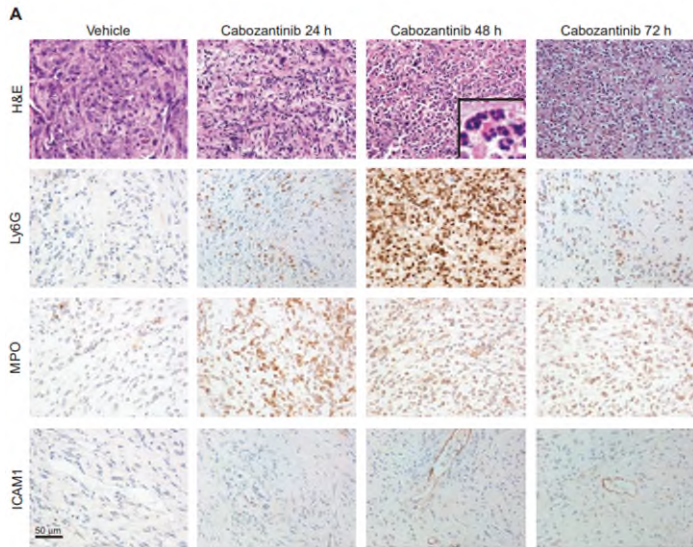
Antibody-drug conjugate (cytotoxic payload)

- PSMA ADC 2301 (Progenics) MMAE payload

Arm/Group Description	Prostate Specific Membrane Antigen Antibody Drug Conjugate (PSMA ADC) administered IV at 2.3 mg/kg Q3W for 8 cycles.... + Show more	Prostate Specific Membrane Antigen Antibody Drug Conjugate (PSMA ADC) administered IV at 2.3 mg/kg Q3W for 8 cycles.... + Show more
Overall Number of Participants Analyzed	79	34
>30% Decrease in PSA *Measure Type: Number Unit of Measure: % of responders	29	32
>50% Decrease in PSA *	11	21

- ARX517 (NCT04662580) pAF-AS269 payload
 - recruiting at UCLA

Combination VEGF IO: coming to prostate?



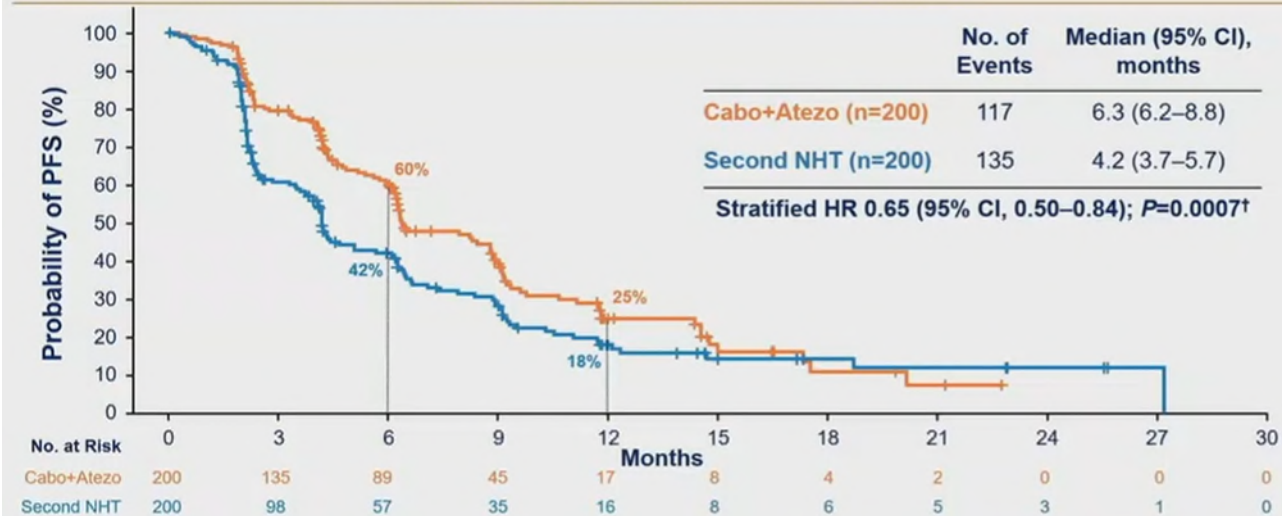
Cabozantinib has been shown to induce favorable changes in tumor microenvironment and regression of prostate tumor in vivo

Patnaik A, et al. *Cancer Discov* 2017; 10.1158/2159-8290.CD-16-0778

Cabozantinib + atezolizumab: phase 3 CONTACT-02

PFS per BIRC* (PFS ITT Population†)

Cabo+Atezo Reduced the Risk of Progression or Death by 35% vs Second NHT



- Median PFS per BIRC (ITT): 6.3 vs 4.2 mo (HR 0.64 [95% CI, 0.50–0.81]; P=0.0002)
- Median rPFS per PCWG3 in PFS ITT population: 6.3 vs 4.1 mo (HR, 0.62 [95% CI, 0.48–0.81])

CI, confidence interval; HR, hazard ratio. *PFS per RECIST v1.1 by BIRC or death. †Critical P value=0.002. ‡First 400 randomized patients.

Agarwal N et al
GU ASCO 2024

mCRPC w/
measurable disease

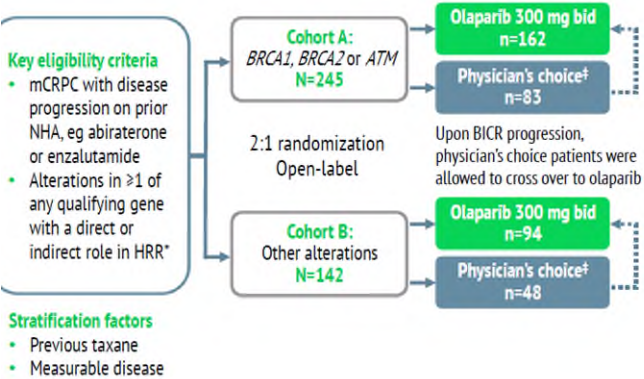
OS not yet mature but
trending in favor of
cabo + atezo
HR 0.79 (0.58-1.07)

Weak control arm

PARP inhibitor prolongs OS in mCRPC with HRR alteration

(PROFOUND: Olaparib vs ARPi post ARPi)

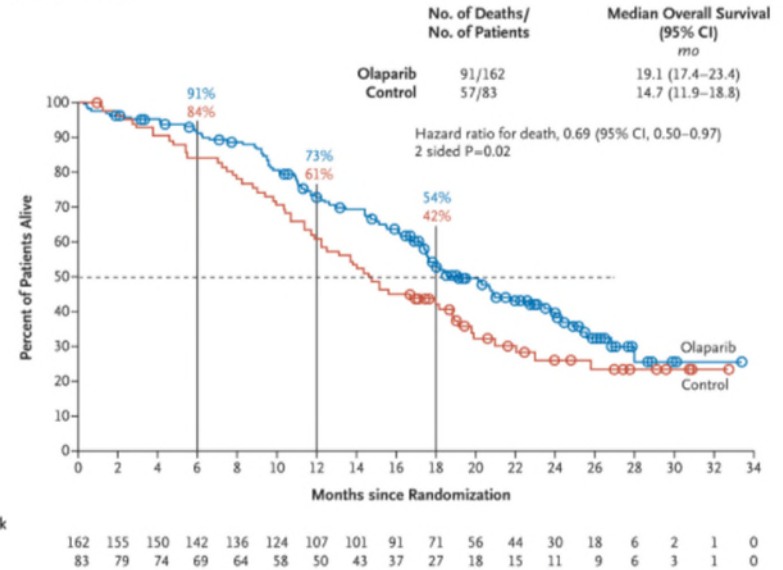
Weak control



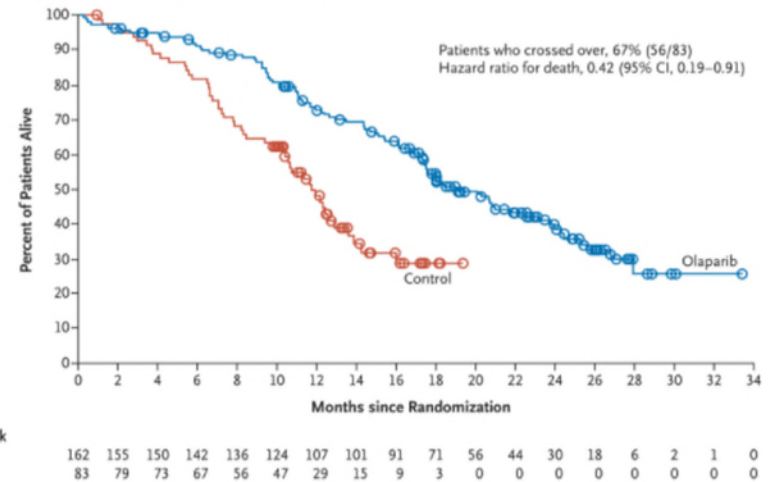
>80% crossover!

deBono J et al. New Engl J Med 2020; 382:2091-102

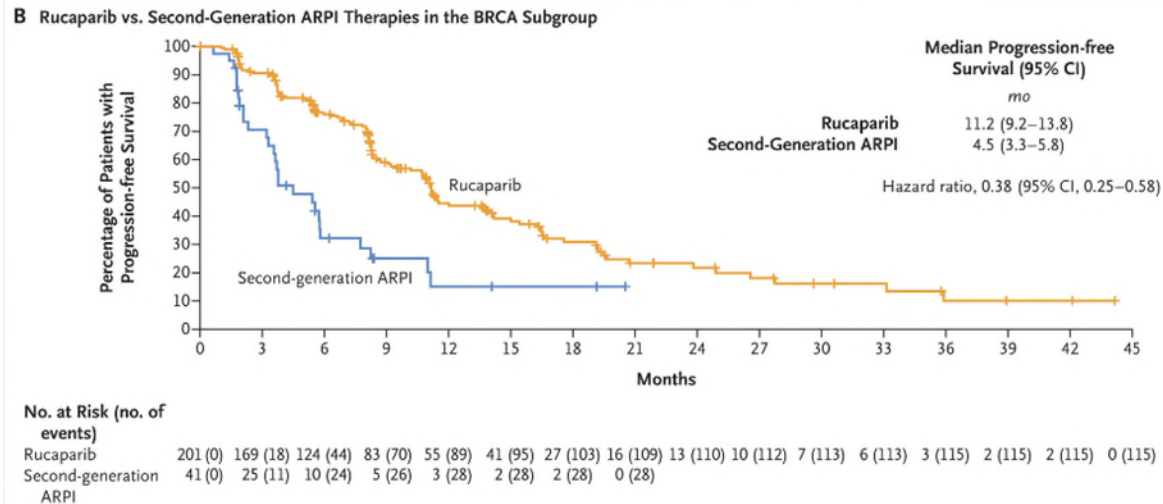
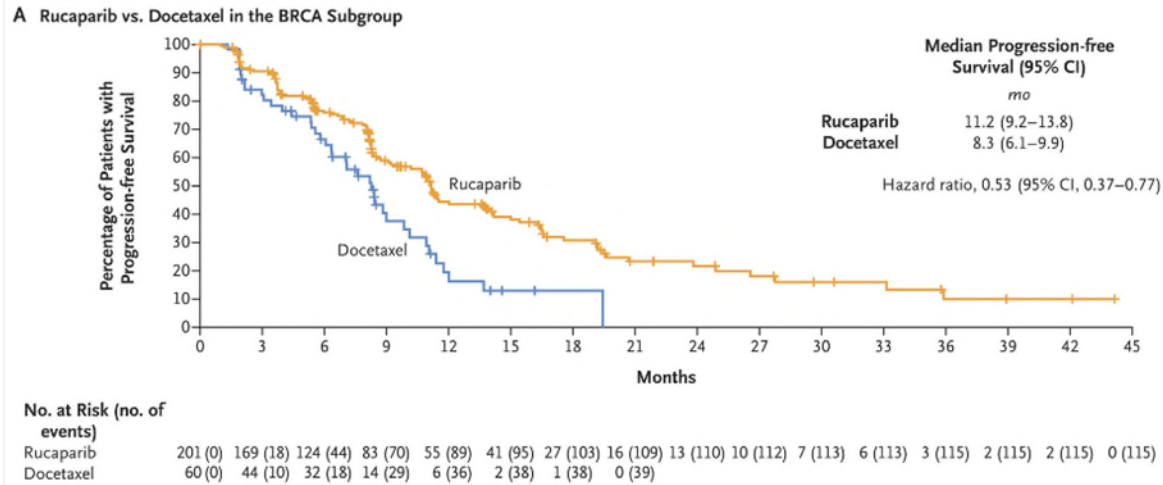
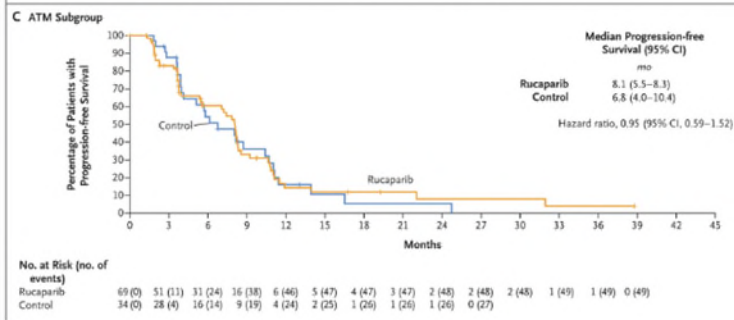
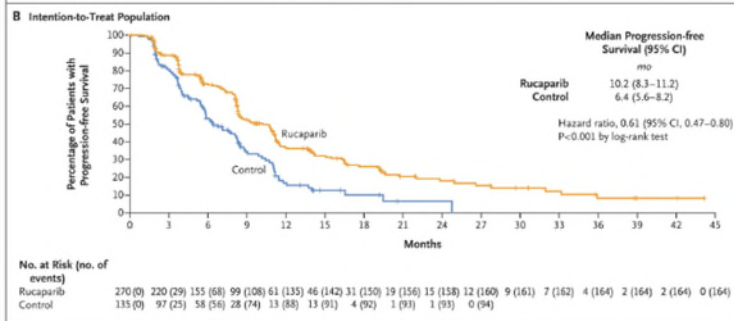
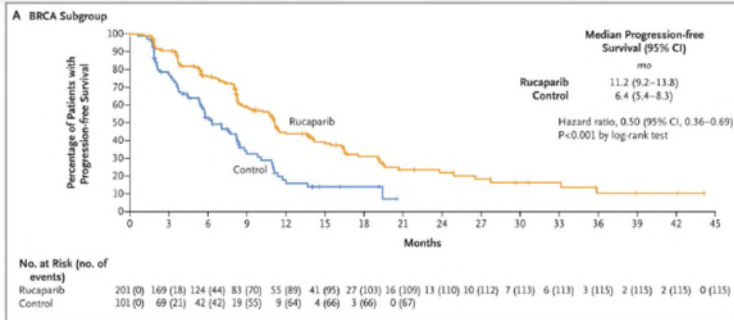
A Overall Survival in Cohort A



B Crossover-Adjusted Analysis of Overall Survival in Cohort A



Rucaparib monotherapy: more effective than docetaxel for BRCA altered mCRPC (TRITON-3)



Notable toxicities of PARP inhibitors

Bone marrow toxicities are #1 cause of discontinuation

- Anemia
 - TALAPRO-1: 35% received ≥ 1 blood transfusion
 - PROfound: 21% grade 3+ anemia
 - TRITON2: 25.2% grade 3+ anemia, 28% ≥ 1 transfusion
- Leukopenia/infection
 - 8% grade 3 ANC talazoparib, 4% grade 3+ olaparib
- Pulmonary emboli
 - PROfound: 4% with olaparib vs 1% with abi/enza control; 6% in TALAPRO-1
- Very few MDS seen

DeBono J, et al. N Engl J Med. 2020;382(22):2091-2102;

Abida W, et al. J Clin Oncol. 2020;38:3763-3772;

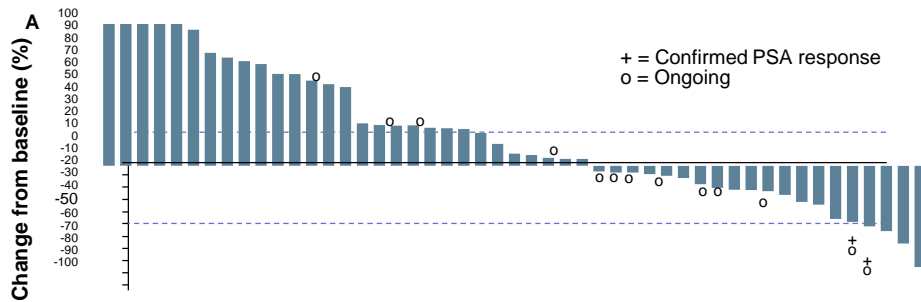
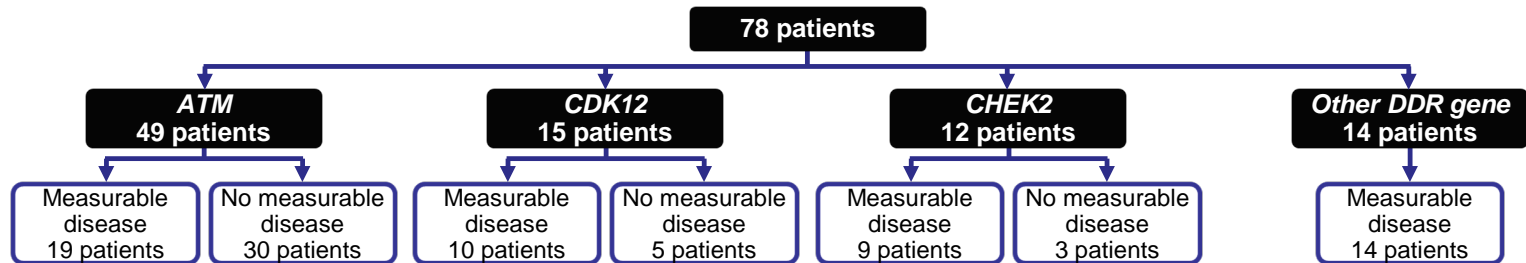
DeBono J, et al. Lancet Oncol. 2021;22:1250-1264

PARP: unanswered questions and what's next

- How well does PARPi work in HRR+ aside from BRCA?
- Does it work in molecularly unselected patients with prostate cancer, when combined with ARPi?
- Financial implications and barriers

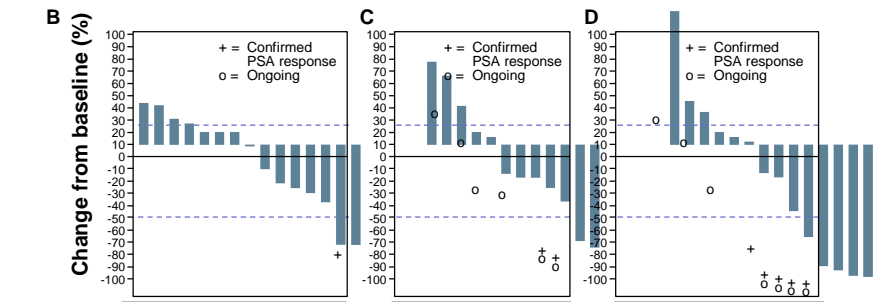
- Moving to mHSPC (for BRCA+ and ?others)
- Combining with radioligand therapy

TRITON2: Rucaparib in mCRPC non-BRCA DDR gene alterations



Patient	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49					
Treatment duration (mo)	1	2	2	2	6	4	14	3	1	5	3	11	7	4	3	6	8	1	5	4	2	2	3	5	2	3	12	7	5	7	6	3	13	3	4	4	6	10	22	3	4	6	2	5	2	3	6	7	7					
Radiographic response																																																						
Best change in SLD (%)	3	12									-17																																											
ATM	U	B	U	B	U	U	U	U	B	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
BRIP1																																																						
CDK12																																																						
CHEK2																																																						
FANCA																																																						
NEB																																																						
PALB2																																																						
RAD51B																																																						
RAD54L																																																						
BRCA2																																																						

Legend: Measurable disease (grey), Germline (blue), Somatic (green), Unknown (white)



Patient	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Treatment duration (mo)	2	6	2	2	4	4	13	5	6	4	3	7	10	5	8
Radiographic response															
Best change in SLD (%)	34	34	31	-12	-13	5	-13	14	14	14	14	14	14	14	14
ATM	U	B	B	U	U	B	B	B	B	B	U	M	B	B	B
BRIP1															
CDK12	U	M	B	B	U	B	B	B	U	M	M	B	B	B	B
CHEK2													B	U	
FANCA															
NEB															

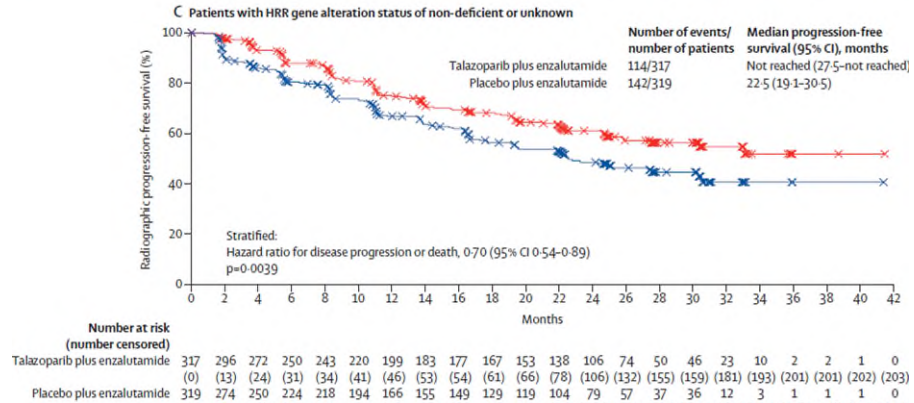
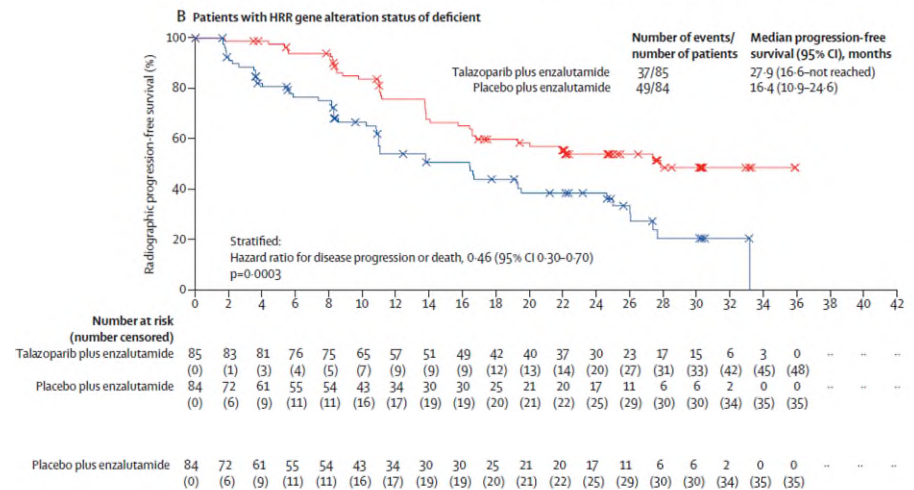
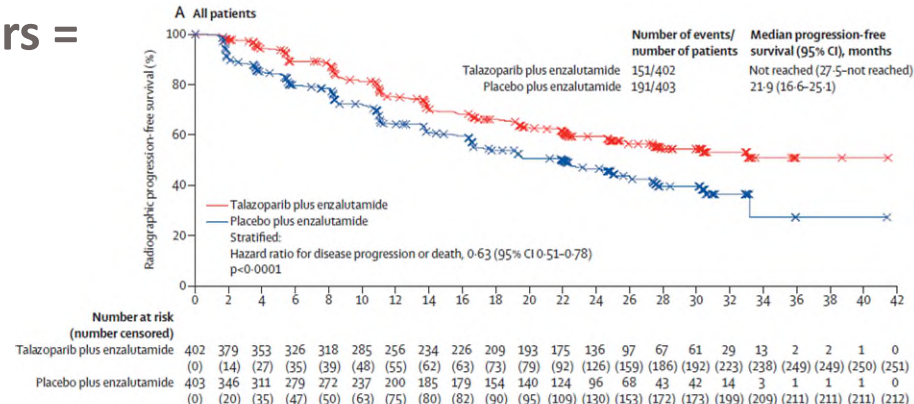
Best change from baseline in PSA in patients with an *ATM* alteration (A), *CDK12* alteration (B), *CHEK2* alteration (C), or other DDR gene alteration (D). PSA increases for patients 1-5 were 319%, 142%, 126%, 109%, and 106%; bars were capped at 100% for visual clarity. Patients 55, 56, 57, 61, 62, 63, and 64 had 2 distinct *CDK12* alterations identified through tissue and/or plasma testing and were considered to have biallelic loss.

ATM, ataxia telangiectasia mutated; BRCA (2), breast cancer type (2) susceptibility protein CR, complete response; DDR, DNA damage repair; mCRPC, metastatic castration resistant prostate cancer; mo, month; PR, partial response; PSA, prostate specific antigen; SLD, sum of the longest diameter

TALAPRO-2: Talazoparib + enzalutamide 1st line mCRPC vs placebo + enzalutamide (all comers = unselected for HRR alteration)

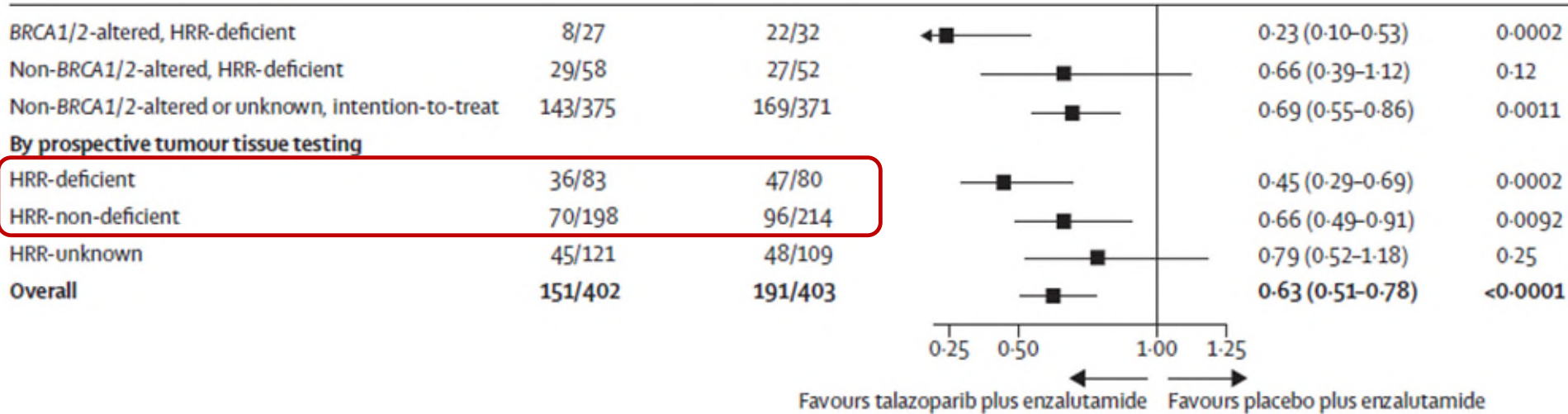
Agarwal N et al. Lancet 2023; 402:22-28

Baseline serum PSA, µg/L	18.2 (6.9-59.4)	16.2 (6.4-53.4)
Baseline circulating tumour cell count, cells per 7.5 mL of blood	1 (0-7)	1 (0-6)
Gleason score†		
<8	117 (29%)	113 (28%)
≥8	281 (70%)	283 (70%)
Disease site		
Bone (including with soft tissue component)	349 (87%)	342 (85%)
Lymph node	147 (37%)	167 (41%)
Visceral (lung)	45 (11%)	61 (15%)
Visceral (liver)	12 (3%)	16 (4%)
Other soft tissue	37 (9%)	33 (8%)
ECOG performance status		
0	259 (64%)	271 (67%)
1	143 (36%)	132 (33%)
Previous taxane-based chemotherapy‡	86 (21%)	93 (23%)
Previous treatment with novel hormonal therapy	23 (6%)	27 (7%)
Abiraterone	21 (5%)	25 (6%)
Orteronel	2 (<1%)	2 (<1%)
HRR gene alteration status by randomisation stratification		
Deficient	85 (21%)	84 (21%)
Non-deficient or unknown	317 (79%)	319 (79%)
HRR gene alteration status by prospective tumour tissue testing¶		
Deficient	85 (21%)	82 (20%)
Non-deficient	207 (51%)	219 (54%)
Unknown	110 (27%)	102 (25%)
BRCA1/2 alteration	27 (7%)	32 (8%)



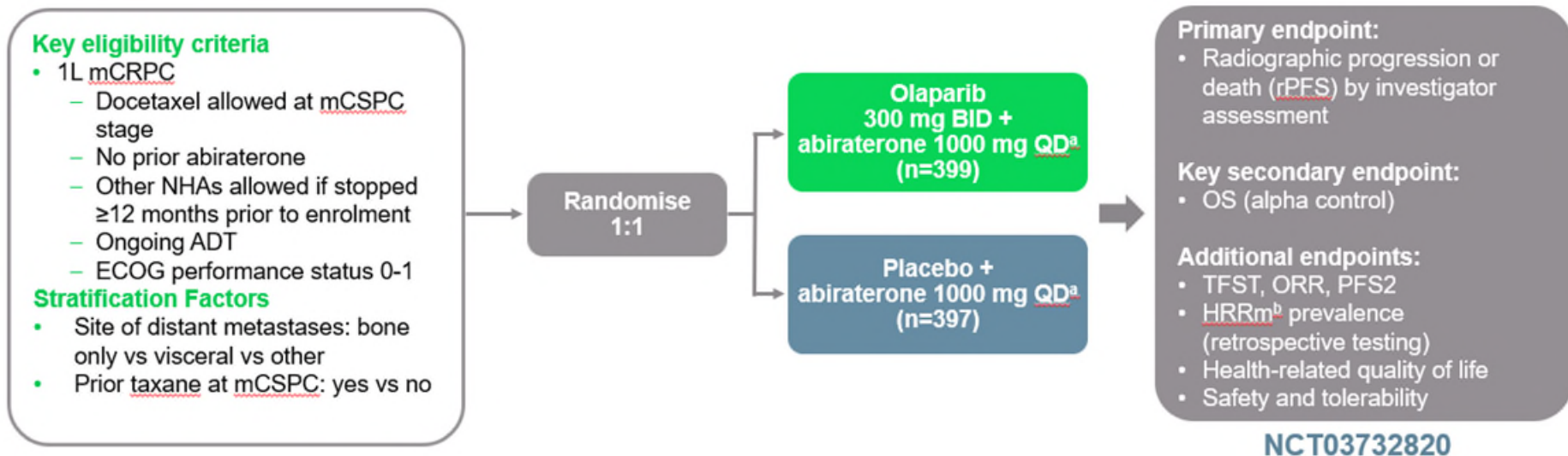
TALAPRO-2: primary endpoint by BRCA/HRR status

B By BRCA1/2 status, HRR gene alteration status, and prospective tumour tissue testing



- BRCA alteration is still important biomarker to select those who benefit MOST

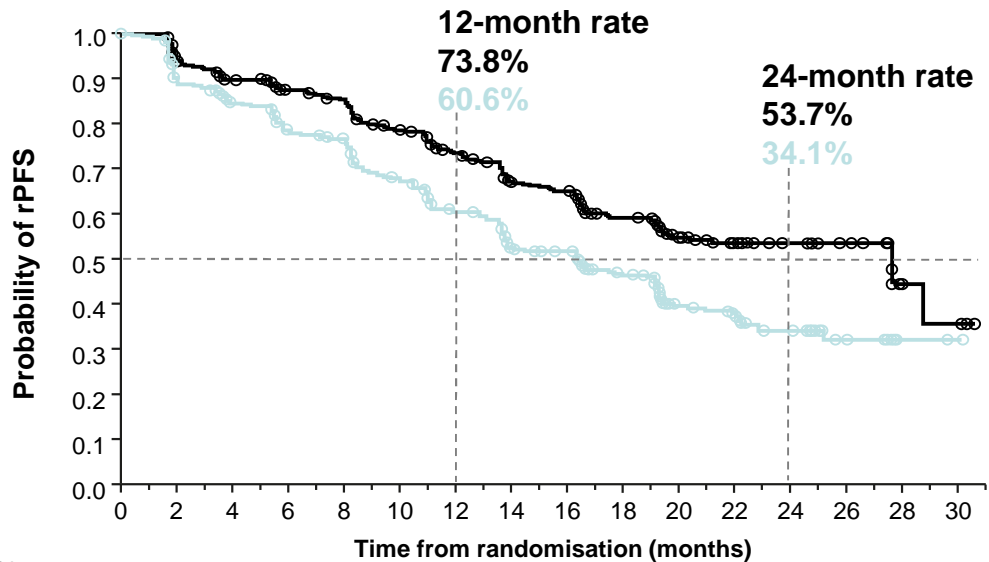
PROPEL trial: abiraterone +/- Olaparib in UNSELECTED mCRPC



	abi + olap n= 399	abi + placebo n = 397
HRRm	111 (27.8%)	115 (29%)
HRR non-mut	279 (69.9%)	273 (68.8%)

PROpel: rPFS by blinded independent central review^a

39% RISK REDUCTION OF PROGRESSION OR DEATH WITH OLAPARIB + ABIRATERONE. HIGHLY CONSISTENT WITH THE PRIMARY ANALYSIS



	Olaparib + abiraterone (n=399)	Placebo + abiraterone (n=397)
Events, n (%)	157 (39.3)	218 (54.9)
Median rPFS (months)	27.6	16.4

No. at risk
 Olaparib + abiraterone 399 389 353 347 332 331 314 309 303 283 275 267 249 240 221 217 215 165 161 159 96 89 80 55 53 30 28 26 5 4 4 0
 Placebo + abiraterone 397 388 345 340 322 319 294 289 282 251 245 226 209 204 177 172 168 131 126 124 73 70 62 39 38 21 16 15 2 2 1 0

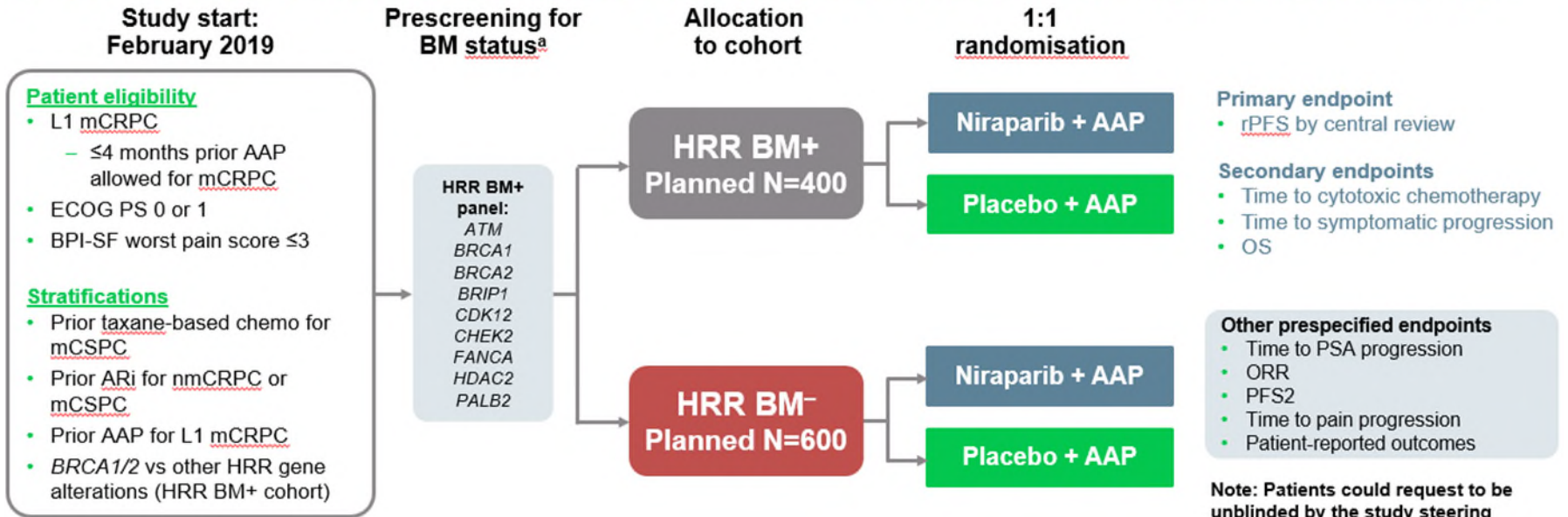
^aPredefined sensitivity analysis. ^bNominal. ^cIn combination with prednisone or prednisolone

CI, confidence interval; HR, hazard ratio; rPFS, radiographic progression-free survival
 Saad F, et al. J Clin Oncol. 2022; 40 (suppl 6; abstr 11)

OS trending in favor of combination, not yet statistically significant

MAGNITUDE trial

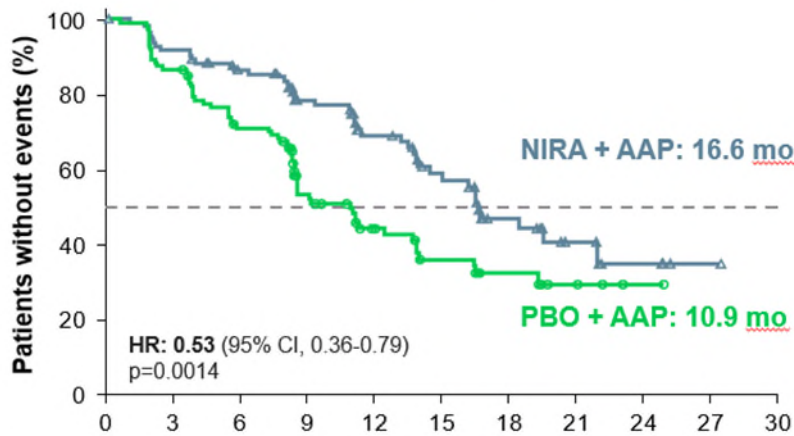
PROSPECTIVELY SELECTED BIOMARKER COHORTS DESIGNED TO TEST HRR BM+ AND HRR BM-



Clinical data cut-off was October 8, [2021](#) for the final rPFS analysis.

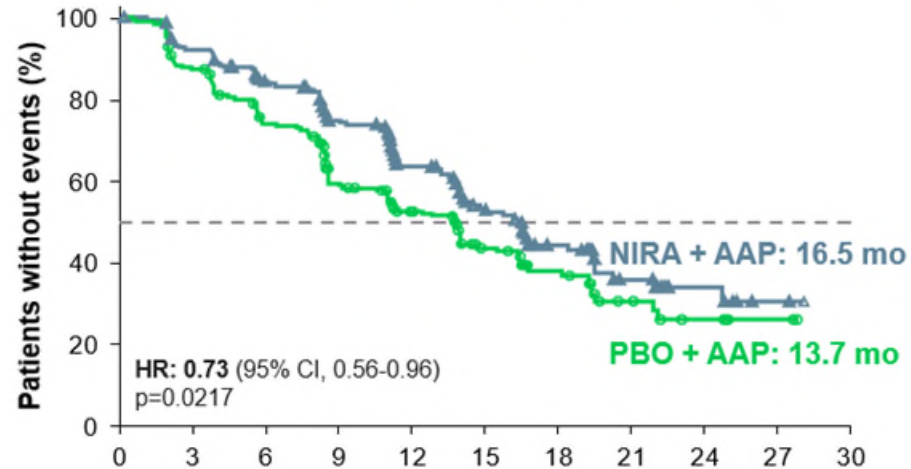
MAGNITUDE primary endpoint results

rPFS assessed by central review



	Months from randomisation										
No. at risk	0	3	6	9	12	15	18	21	24	27	30
NIRA + AAP	113	103	90	65	45	31	18	9	4	1	0
PBO + AAP	112	97	77	43	28	20	11	5	2	0	0

rPFS assessed by central review



	Months from randomisation										
No. at risk	0	3	6	9	12	15	18	21	24	27	30
NIRA + AAP	212	192	167	129	96	64	45	21	10	2	0
PBO + AAP	211	182	149	102	78	53	35	15	9	2	0

BRCA mutated

all HRR+

Prespecified futility analysis in **biomarker HRR-** group after ~200 enrolled (125 progression events) showed **NO BENEFIT** therefore this group stopped enrolling.

What's next for PARP: mHSPC and novel combinations

Name/Sponsor	PARPi	Combination	Design (n)
AMPLITUDE	Niraparib	Abiraterone	Randomized mHSPC, HRR+ (788)
TALAPRO-3	Talazoparib	Enzalutamide	Randomized mHSPC, HRR+ (550)
City of Hope PCF	Talazoparib	Abiraterone	Single arm mHSPC, Unselected (70)
NCT03076203	Niraparib	Radium-223	mCRPC prior abi/enza (chemo OK)
NCT03874884	Olaparib	177-Lu-PSMA-617	PSMA PET + mCRPC
NCT04253262	Rucaparib	Copanalisisib	mCRPC, prior abi/enza. NEPC allowed
NCT04592237	Niraparib	Cabazi, Carbo, Cetrelimab	AVPC
NCT04846478	Talazoparib	Tazemetostat	Post ab/enza, post doce
NCT04336943	Olaparib	Durvalumab	BCR w/ high neoantigen load

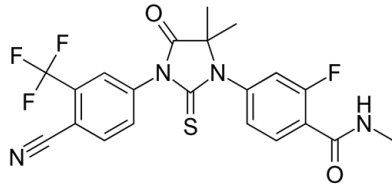
Overview of AR Targeting Modalities

Decrease production of ligand (CYP17 inhibitors)

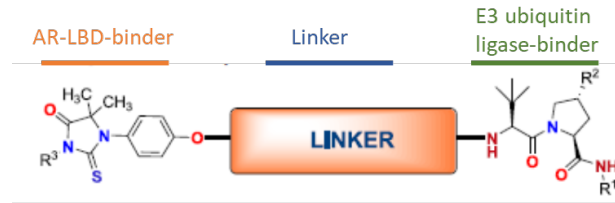
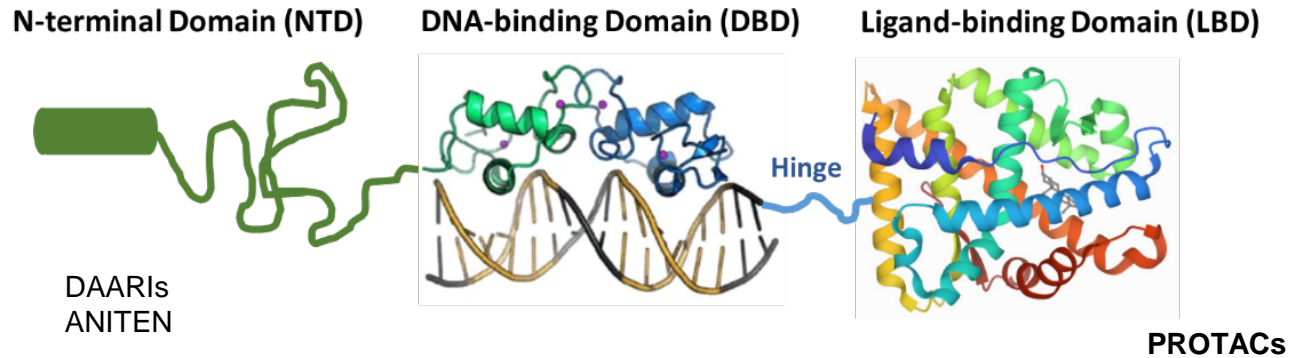
- abiraterone
- TAK700

Inhibit AR LBD

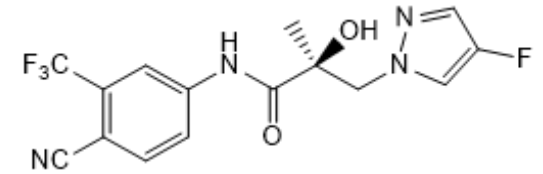
- Apalutamide
- Bicalutamide
- Darolutamide
- Enzalutamide



Commercial AR LBD Antagonists
Example: Enzalutamide



Generic AR-Targeting PROTAC Structure
Example: ARVINAS US 2020/005 5825 A1



ONCT-534

Slide courtesy of Evan Yu (UW/ Fred Hutch)

ARV-110

aka bavdegalutamide

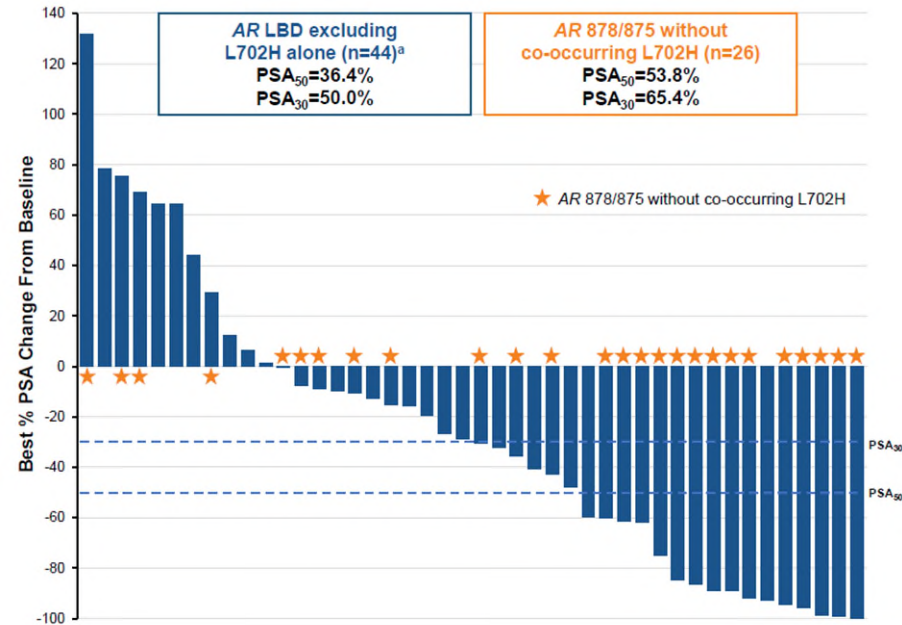
- In phase 1, patients with mCRPC received bavdegalutamide 35–700 mg QD or 210–420 mg twice daily
- In phase 2 (ARDENT), patients with mCRPC were assigned to subgroups based on AR mutation status or a clinically defined subgroup (patients who had 1 prior NHA and no prior chemotherapy) and received bavdegalutamide 420 mg QD

Key eligibility criteria

- Confirmed mCRPC and disease progression on last line of treatment
 - Phase 1 dose escalation: Disease progression on ≥ 2 prior lines of systemic therapy, including abiraterone or enzalutamide
 - Phase 2 cohort expansion (ARDENT): 1–2 prior NHAs with ≤ 1 prior chemotherapy regimen each for castration-sensitive PC and CRPC

ESMO 2023 (Petrylak DP)

Phase 1/2 subset study results (AR LBD mutation excluding L702H alone)



ARV-110

Adverse Events

Table 2: TRAEs reported in ≥10% of patients treated with bavdegalutamide 420 mg QD in the phase 1/2 study (N=153)

n (%)	Total	Grade 1	Grade 2	Grade 3
Any TRAE	135 (88)	45 (29)	66 (43)	24 (16)
Nausea	85 (56)	59 (39)	24 (16)	2 (1)
Fatigue	53 (35)	36 (24)	16 (10)	1 (1)
Vomiting	50 (33)	38 (25)	11 (7)	1 (1)
Decreased appetite	39 (25)	21 (14)	18 (12)	0
Diarrhea	37 (24)	27 (18)	7 (5)	3 (2)
Alopecia	28 (18)	24 (16)	4 (3)	NA
Anemia	23 (15)	10 (7)	6 (4)	7 (5)
Decreased weight	19 (12)	10 (7)	9 (6)	0
Increased AST	18 (12)	13 (8)	4 (3)	1 (1)

ESMO 2023 (Petrylak DP)
Phase 1/2 subset study results
(AR LBD mutation +
excluding L702H alone)

Conclusions: updates for advanced prostate cancer

- Radioligand therapy prolongs OS, good toxicity profile
 - New agents may increase benefit (particle, binder, target)
- Other ways to target Prostate antigens are in trials
 - Immunotherapy (bispecific/CAR T), ADC - cytotoxic
- Combination of VEGF TKI + IO may become an option
 - Cabozantinib + atezolizumab (CONTACT-02)
- PARP inhibitors are powerful in some mCRPC
 - Even w/new data: germline+ somatic testing are important!
- AR PROTAC degraders (and other novel AR targeting strategies) may be another advance
 - ARV-766 trial open at COH