

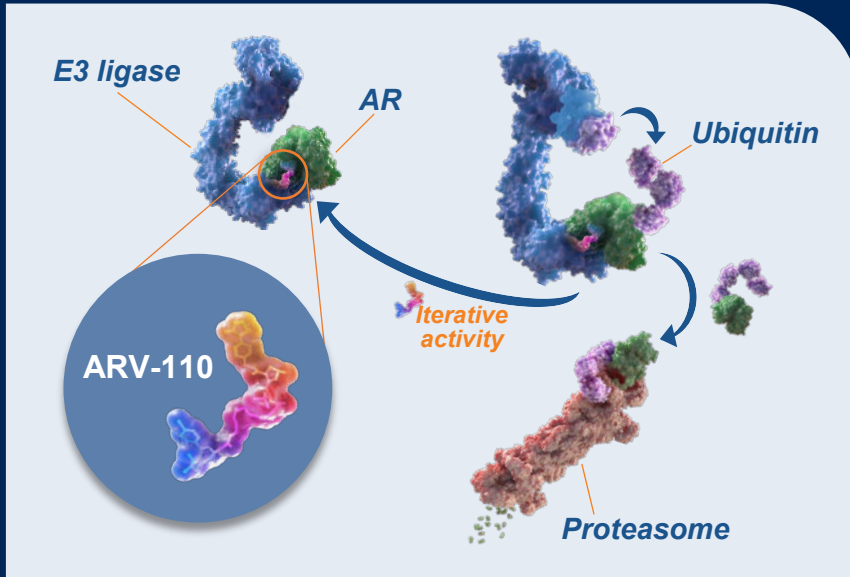
# Phase 1/2 Study of ARV-110, an Androgen Receptor PROTAC Degradar, in Metastatic Castration-Resistant Prostate Cancer

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# Background

- Bavdegalutamide (ARV-110) is a novel, oral PROTAC protein degrader that targets wild-type AR and clinically relevant mutants
- In the phase 1 dose escalation study of ARV-110 in men with mCRPC who received  $\geq 2$  prior therapies (including abiraterone and/or enzalutamide)<sup>1</sup>:



- An exposure-activity relationship was seen in heavily pretreated patients
- Enhanced activity was observed in a biomarker-defined patient subset
  - PSA<sub>50</sub> rate of 40% in patients with AR T878X/H875Y-positive tumors (n=5)
- 420 mg QD was selected as the RP2D based on safety, PK, and efficacy\*

1. Chirnomas D, 28th Prostate Cancer Foundation Annual Scientific Retreat. 2021

\*Doses ranged from 35–700 mg QD or 210–420 mg BID

AR=androgen receptor; BID=twice daily; DLT=dose-limiting toxicity; mCRPC=metastatic castration-resistant prostate cancer; PK=pharmacokinetics; PROTAC=PROteolysis TArgeting Chimera; PSA=prostate-specific antigen; PSA<sub>50</sub>=best PSA declines  $\geq 50\%$ ; QD=once daily; RP2D=recommended phase 2 dose; T878X=T878A or T878S

# Ongoing Phase 2 Expansion Study (ARDENT) Design (NCT03888612)

## Key eligibility criteria

- Confirmed metastatic CRPC
- Disease progression on or since most recent therapy
  - $\geq 2$  rising PSA values ( $\geq 2$  ng/mL)

## BIOMARKER-DEFINED\* SUBGROUPS

- 1–2 prior novel hormonal agents
- $\leq 1$  prior chemotherapy regimen each for CSPC and CRPC

### T878X/H875Y<sup>†</sup>

- AR T878A/S and/or H875Y

### WT/Other

- Wild-type AR or AR alterations other than T878A/S, H875Y, L702H, AR-V7

### L702H/AR-V7<sup>‡</sup>

- AR L702H or AR-V7 (co-occurring T878X/H875Y included)

## CLINICALLY DEFINED, BIOMARKER AGNOSTIC SUBGROUP ( $\leq 1$ PRIOR LINE FOR CRPC)

### Less Pretreated

- 1 prior novel hormonal agent
- No prior chemotherapy

## ARV-110 administration

- Starting dose of 420 mg QD
- Dose reductions/interruptions permitted for AEs

## Primary endpoints

- PSA response rate, RECIST response rate, PFS, and rPFS

## Secondary endpoints

- Duration of response
- OS
- AEs and laboratory abnormalities
- PK parameters

## Analysis includes complete phase 1 data and interim phase 2 data

- Data cutoff date of December 20, 2021

\*Based on tumor DNA sequencing using circulating tumor DNA or tumor biopsies; <sup>†</sup>Without AR L702H or AR-V7; <sup>‡</sup>AR variants not degraded by ARV-110  
 AE=adverse event; AR=androgen receptor; CRPC=castration-resistant prostate cancer; CSPC=castration-sensitive prostate cancer; OS=overall survival; PFS=progression-free survival; PK=pharmacokinetic; PSA=prostate-specific antigen, QD=once daily; RECIST=Response Evaluation Criteria in Solid Tumors; rPFS=radiographic progression-free survival; T878X=T878A or T878S WT=wild-type

# Patient Baseline Characteristics

Parameter	Phase 1 (n=71)	Phase 2* (n=124)
Median age (range), y	70 (51–85)	74 (48–91)
ECOG performance status, <sup>†</sup> n (%)		
0	46 (65)	61 (49)
1	25 (35)	62 (50)
Visceral disease, <sup>‡</sup> n (%)	31 (44)	38 (31)
Median no. lines of prior therapy (range)	6 (2–14)	4 (1–11)
Type of prior therapy, n (%)		
Novel hormonal agent	71 (100)	124 (100)
Abiraterone	63 (89)	79 (64)
Enzalutamide <sup>§</sup>	57 (80)	93 (75)
Abiraterone and enzalutamide <sup>§</sup>	49 (69)	48 (39)
Chemotherapy	53 (75)	39 (31)

\*Phase 2 enrollment ongoing (December 20, 2021 data cutoff date); <sup>†</sup>1 patient in phase 2 expansion had ECOG performance status of 2; <sup>‡</sup>Soft tissue disease other than lymph node, including liver or lung; <sup>§</sup>Or other AR blocker (apalutamide or darolutamide)  
AR=androgen receptor; ECOG=Eastern Cooperative Oncology Group

# TRAEs in $\geq 10\%$ of Patients Treated With ARV-110 at the RP2D (420 mg QD)

TRAE, n (%)	Total at RP2D (n=138)*			
	Grade 1	Grade 2	Grade 3 <sup>†</sup>	Total
Any TRAE	39 (28)	53 (38)	23 (17)	115 (83)
Nausea	42 (30)	22 (16)	2 (1)	66 (48)
Fatigue	32 (23)	16 (12)	1 (1)	49 (36)
Vomiting	28 (20)	7 (5)	1 (1)	36 (26)
Decreased appetite	19 (14)	15 (11)	1 (1)	35 (25)
Diarrhea	19 (14)	6 (4)	3 (2)	28 (20)
Alopecia	18 (13)	2 (1)	NA	20 (14)
AST increased	12 (9)	4 (3)	1 (1)	17 (12)
Weight decreased	9 (7)	7 (5)	0	16 (12)
Anemia	6 (4)	2 (1)	7 (5)	15 (11)

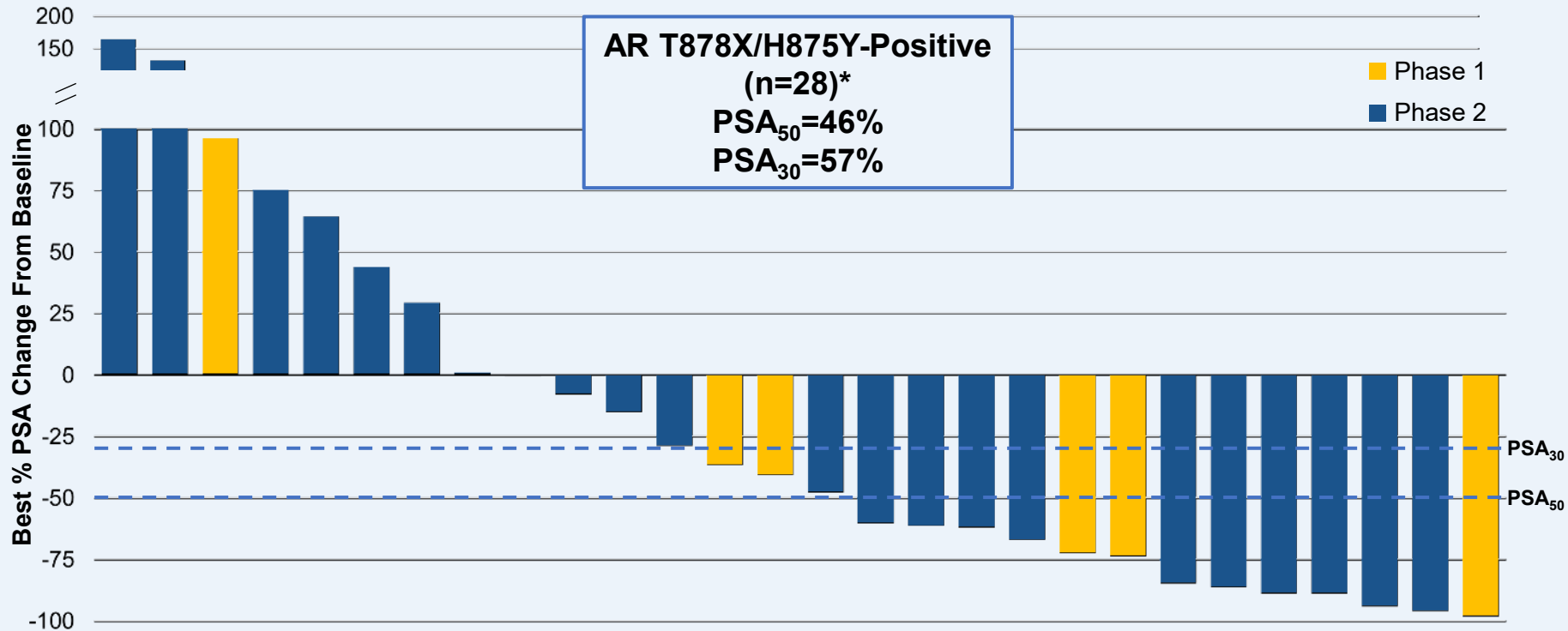
- There were no grade  $\geq 4$  TRAEs at the RP2D
- TRAEs led to ARV-110 dose reduction in 11 (8%) patients treated at the RP2D
- TRAEs led to ARV-110 discontinuation in 12 (9%) patients treated at the RP2D

\*Includes 14 phase 1 patients (9 treated at 420 mg QD and 5 treated at 210 mg BID) and 124 phase 2 patients

<sup>†</sup>Additional grade 3 TRAEs were neutrophil count decreased (n=3); lymphocyte count decreased, blood creatinine increased (n=2 each); and platelet count decreased, asthenia, dyspepsia, fall, hyperkalemia, abdominal discomfort, hypertension, blood bilirubin increased, and myocarditis (n=1 each)

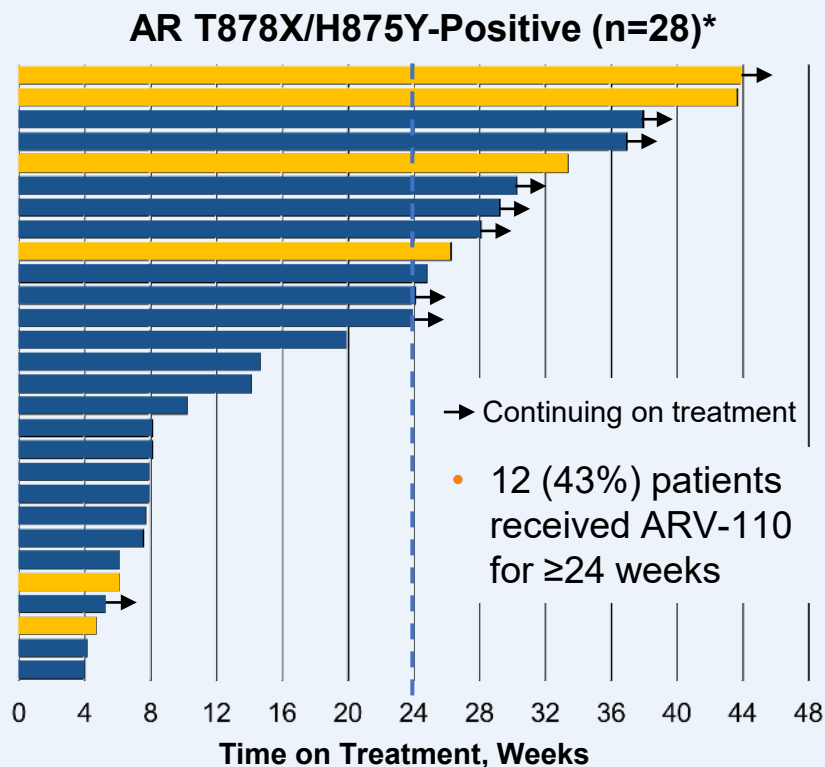
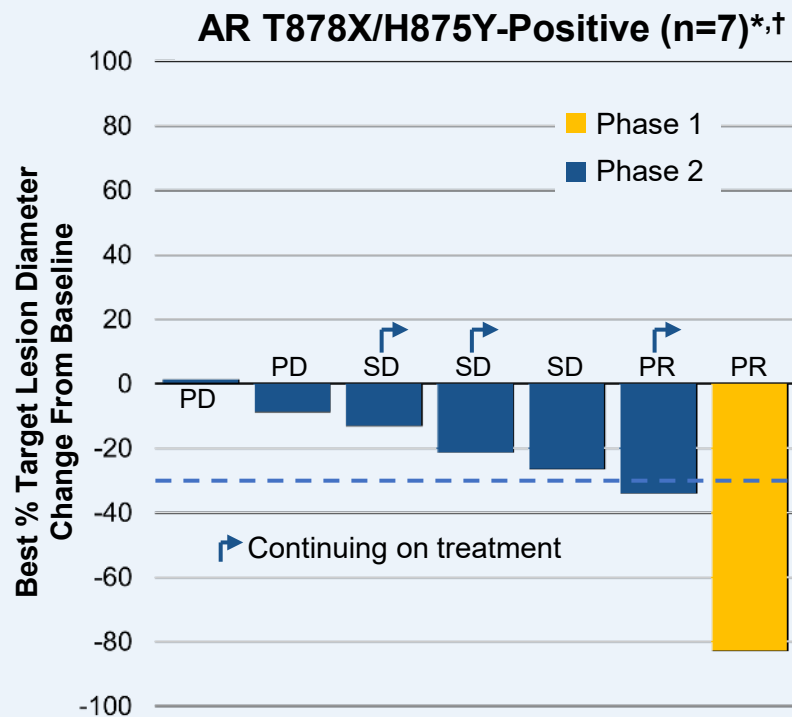
AST=aspartate aminotransferase; BID=twice daily; NA=not applicable; QD=once daily; RP2D=recommended phase 2 dose; TRAE=treatment-related adverse event

# 46% of Patients With Tumors Harboring AR T878X/H875Y Mutations Had PSA Declines of $\geq 50\%$



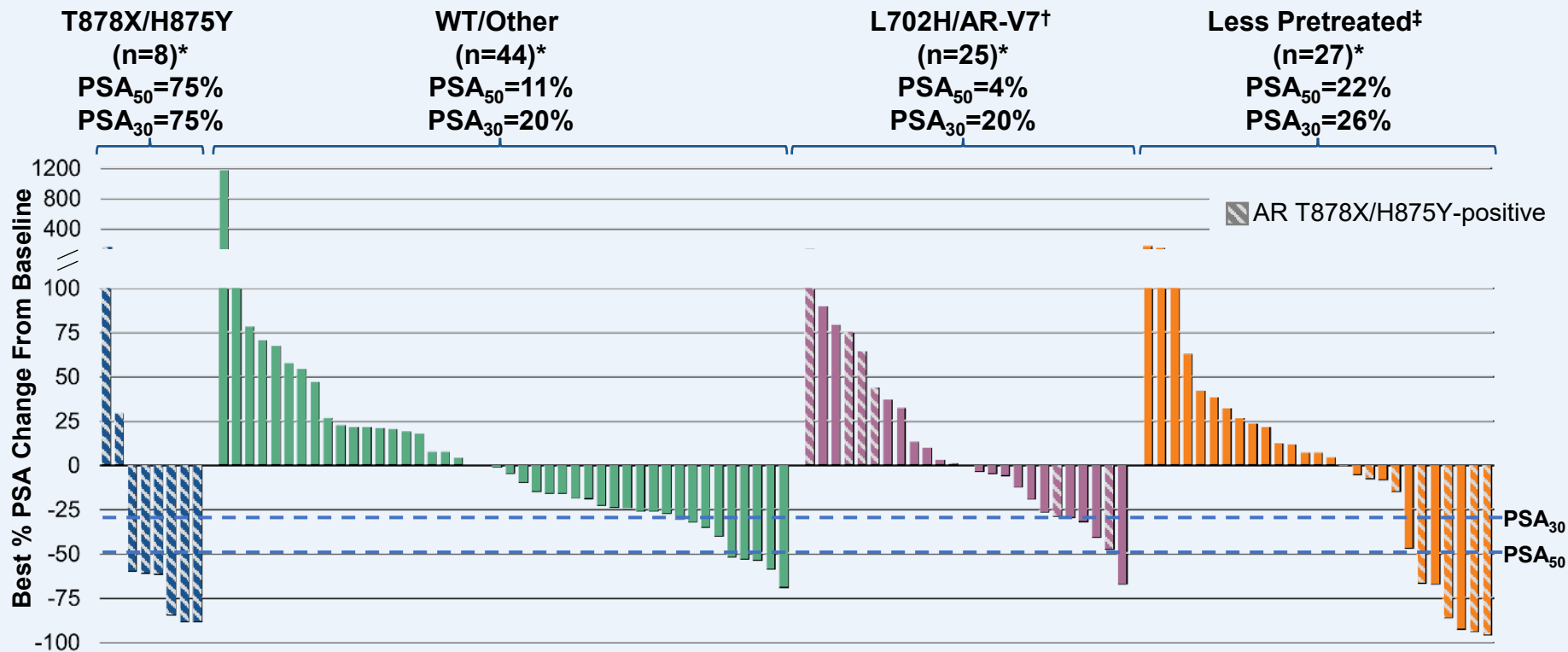
\*Includes biomarker-evaluable patients treated at or above the RP2D (phase 1 and 2) or with exposure above the minimum efficacious threshold in nonclinical xenograft tumor models (phase 1) and with  $\geq 4$  weeks of PSA follow-up  
 AR=androgen receptor; PSA=prostate-specific antigen; PSA<sub>30</sub>=best PSA declines  $\geq 30\%$ ; PSA<sub>50</sub>=best PSA declines  $\geq 50\%$ ; RP2D=recommended phase 2 dose; T878X=T878A or T878S

# 2 of 7 Patients With Tumors Harboring AR T878X/H875Y Mutations Had Confirmed RECIST Partial Responses



\*Includes biomarker-evaluable patients treated at or above the recommended phase 2 dose (phase 1 and 2) or with exposure above the minimum efficacious threshold in nonclinical xenograft tumor models (phase 1); †Includes patients with measurable disease at baseline and  $\geq 1$  on-treatment scan; patients with SD as best response and  $< 12$  weeks follow-up were excluded  
AR=androgen receptor; PD=progressive disease; PR=confirmed partial response; RECIST=Response Evaluation Criteria in Solid Tumors; SD=stable disease; T878X=T878A or T878S

# PSA Declines of $\geq 50\%$ Were Seen Across All Subgroups in ARDENT



\*Includes biomarker-evaluable patients with  $\geq 4$  weeks of PSA follow-up

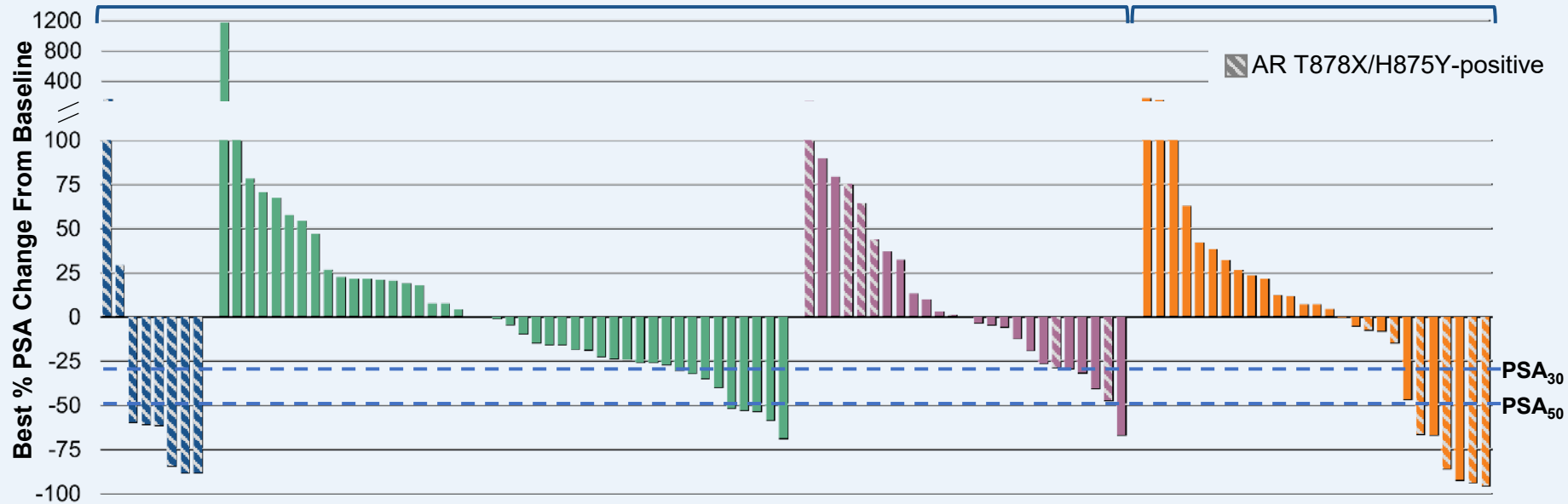
<sup>†</sup>Co-occurring T878X/H875Y included; <sup>‡</sup>All forms of AR

AR=androgen receptor; PSA=prostate-specific antigen; PSA<sub>30</sub>=best PSA declines  $\geq 30\%$ ; PSA<sub>50</sub>=best PSA declines  $\geq 50\%$ ; T878X=T878A or T878S; WT=wild-type



# Non-AR Molecular Profiles Were Similar in the Less Pretreated Subgroup and the More Pretreated, Biomarker-Defined Subgroups

	More Pretreated (Biomarker-Defined) (n=77)*	Less Pretreated† (n=27)*
<i>TP53</i>	57%	48%
<i>BRCA2</i>	8%	15%
<i>PI3K pathway</i>	36%	30%
<i>RB1</i>	9%	11%



\*Includes biomarker-evaluable patients with  $\geq 4$  weeks of PSA follow-up; non-AR molecular profile analyses are preliminary and exploratory

†All forms of AR

AR=androgen receptor; PSA=prostate-specific antigen; PSA<sub>30</sub>=best PSA declines  $\geq 30\%$ ; PSA<sub>50</sub>=best PSA declines  $\geq 50\%$ ; T878X=T878A or T878S

# Conclusions

- Bavdegalutamide (ARV-110), a novel AR PROTAC protein degrader, demonstrates clinical activity in patients with mCRPC after 1–2 prior novel hormonal agents, including heavily pretreated patients
  - A 46% PSA<sub>50</sub> rate and RECIST responses were seen in patients with tumors harboring AR T878X/H875Y mutations, which is likely a particularly AR-dependent, bavdegalutamide-sensitive population
  - PSA declines of ≥50% were also observed in patients without AR T878X/H875Y mutations
- The bavdegalutamide RP2D of 420 mg QD is tolerable with manageable side effects
- Patients in the less pretreated subgroup (based on clinical history) and those in the more pretreated, biomarker-defined subgroups had tumors with similar non-AR molecular profiles
- Bavdegalutamide merits further investigation in patients with mCRPC

## Acknowledgments

- We thank the patients who participated in this study and their caregivers, as well as the investigators, researchers, and coordinators who contributed to this study
- This study is sponsored by Arvinas Androgen Receptor, Inc.

# Phase 1/2 Study of ARV-110, an Androgen Receptor PROTAC Degradar, in Metastatic Castration-Resistant Prostate Cancer

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## Objective

- To evaluate the safety and efficacy of ARV-110 (bavdegalutamide), an oral androgen receptor (AR) PROteolysis TArgeting Chimera (PROTAC) protein degrader, in a phase 1/2 study in patients with metastatic castration-resistant prostate cancer (mCRPC) who had received 1–2 prior novel hormonal agents (NHAs)

## Key Findings

- At the recommended phase 2 dose (RP2D) of 420 mg once daily (QD) ARV-110, most treatment-related adverse events (TRAEs) were grade 1 or 2; there were no grade ≥4 TRAEs
- In the population with tumors harboring AR T878X/H875Y mutations:
  - Best prostate-specific antigen (PSA) declines ≥50% (PSA<sub>50</sub>) and ≥30% (PSA<sub>30</sub>) were 46% and 57%, respectively, in 28 patients
  - 2 of 7 evaluable patients had confirmed partial responses per Response Evaluation Criteria in Solid Tumors (RECIST)
  - 43% (12/28) of patients received ARV-110 for ≥24 weeks
- PSA declines of ≥50% and ≥30% and tumor shrinkage were also seen in patients without AR T878X/H875Y mutations
- In the phase 2 portion, the prevalence of non-AR molecular alterations was similar in the less pretreated subgroup and the more pretreated, biomarker-defined subgroups

## Conclusions

- ARV-110 demonstrates clinical activity in patients with mCRPC after 1–2 prior NHAs, including heavily pretreated patients
  - Patients with AR T878X/H875Y mutations likely represent a particularly AR-dependent, ARV-110-sensitive population
- The ARV-110 RP2D of 420 mg QD was tolerable with manageable side effects
- Patients in the less pretreated subgroup (based on clinical history) and those in the more pretreated, biomarker-defined subgroups had tumors with similar non-AR molecular profiles
- ARV-110 merits further investigation in patients with mCRPC

## Background

- ARV-110 is a novel, oral PROTAC protein degrader that targets wild-type AR and clinically relevant mutants
- A phase 1 dose escalation study evaluated ARV-110 at doses ranging from 35–700 mg QD or 210–420 mg twice daily in men with mCRPC and ≥2 prior therapies (including abiraterone and/or enzalutamide)<sup>1</sup>
  - An exposure-activity relationship was seen in heavily pretreated patients
  - Enhanced activity was seen in a biomarker-defined subset, with a PSA<sub>50</sub> rate of 40% in patients with AR T878X/H875Y-positive tumors (n=5)
  - 420 mg QD was selected as the RP2D based on safety, pharmacokinetics, and efficacy

## Results

### Patients

- 195 patients were enrolled across the phase 1/2 study (Table 1)

Table 1: Baseline characteristics

Parameter	Phase 1 (n=71)	Phase 2 (n=124)	Parameter	Phase 1 (n=71)	Phase 2 (n=124)
Median age (range), y	70 (51–85)	74 (48–91)	Median no. lines of prior therapy	6 (2–14)	4 (1–11)
ECOG performance status,* n (%)			Type of prior therapy, n (%)		
0	46 (65)	61 (49)	NHA	71 (100)	124 (100)
1	25 (35)	62 (50)	Abiraterone	63 (89)	79 (64)
Visceral disease, <sup>†</sup> n (%)	31 (44)	38 (31)	Enzalutamide <sup>‡</sup>	57 (80)	93 (75)
			Abiraterone and enzalutamide <sup>‡</sup>	49 (69)	48 (39)
			Chemotherapy	53 (75)	39 (31)

\*1 patient in phase 2 expansion had ECOG performance status of 2. <sup>†</sup>Soft tissue disease other than lymph node. <sup>‡</sup>Other AR blocker (apalutamide/darolutamide). AR=androgen receptor; ECOG=Eastern Cooperative Oncology Group; NHA=novel hormonal agent

### Safety

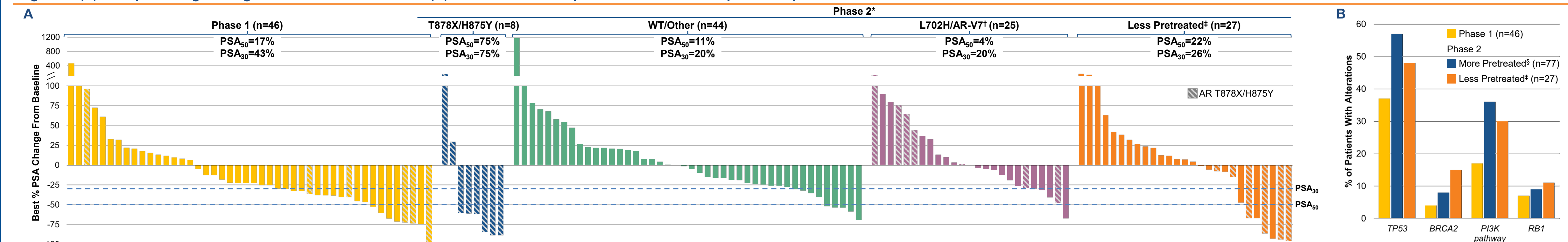
- There were no grade ≥4 TRAEs at the RP2D (Table 2)
- TRAEs led to dose reductions in 11 (8%) patients treated at the RP2D and to treatment discontinuations in 12 (9%)

Table 2: Treatment-related adverse events\*

TRAE, n (%)	Total at RP2D (n=138) <sup>†</sup>			
	Grade 1	Grade 2	Grade 3 <sup>‡</sup>	Total
Any TRAE	39 (28)	53 (38)	23 (17)	115 (83)
Nausea	42 (30)	22 (16)	2 (1)	66 (48)
Fatigue	32 (23)	16 (12)	1 (1)	49 (36)
Vomiting	28 (20)	7 (5)	1 (1)	36 (26)
Decreased appetite	19 (14)	15 (11)	1 (1)	35 (25)
Diarrhea	19 (14)	6 (4)	3 (2)	28 (20)
Alopecia	18 (13)	2 (1)	NA	20 (14)
AST increased	12 (9)	4 (3)	1 (1)	17 (12)
Weight decreased	9 (7)	7 (5)	0	16 (12)
Anemia	6 (4)	2 (1)	7 (5)	15 (11)

\*Reported in ≥10% of patients treated at the RP2D. <sup>†</sup>Includes 14 phase 1 patients (9 treated at 420 mg once daily and 5 treated at 210 mg twice daily) and 124 phase 2 patients. <sup>‡</sup>Additional grade 3 TRAEs were neutrophil count decreased (n=3); lymphocyte count decreased, blood creatinine increased (n=2 each); and platelet count decreased, asthenia, dyspepsia, fall, hyperkalemia, abdominal discomfort, hypertension, blood bilirubin increased, and myocarditis (n=1 each). AST=aspartate aminotransferase; NA=not applicable; RP2D=recommended phase 2 dose; TRAE=treatment-related adverse event

Figure 1: (A) Best percentage change in PSA from baseline and (B) non-AR molecular profiles in all evaluable phase 1/2 patients\*



\*Includes biomarker-evaluable patients (those with circulating tumor DNA or tumor samples evaluable by DNA sequencing and, where applicable, blood samples evaluable for AR-V7) treated at or above the recommended phase 2 dose (phase 1 and 2) or with exposure above the minimum efficacious threshold in nonclinical xenograft tumor models (phase 1) and with ≥4 weeks of PSA follow-up; 2 biomarker-evaluable phase 2 patients with limited sequencing data could not be assigned to a subgroup; non-AR molecular profile analyses are preliminary and exploratory. <sup>†</sup>Co-occurring T878X/H875Y included. <sup>‡</sup>All AR forms. <sup>§</sup>Includes patients in phase 2 biomarker-defined subgroups (T878X/H875Y, WT/Other, and L702H/AR-V7). AR=androgen receptor; PSA=prostate-specific antigen; PSA<sub>30</sub>=best PSA declines ≥30%; PSA<sub>50</sub>=best PSA declines ≥50%; T878X=T878A or T878S; WT=wild-type

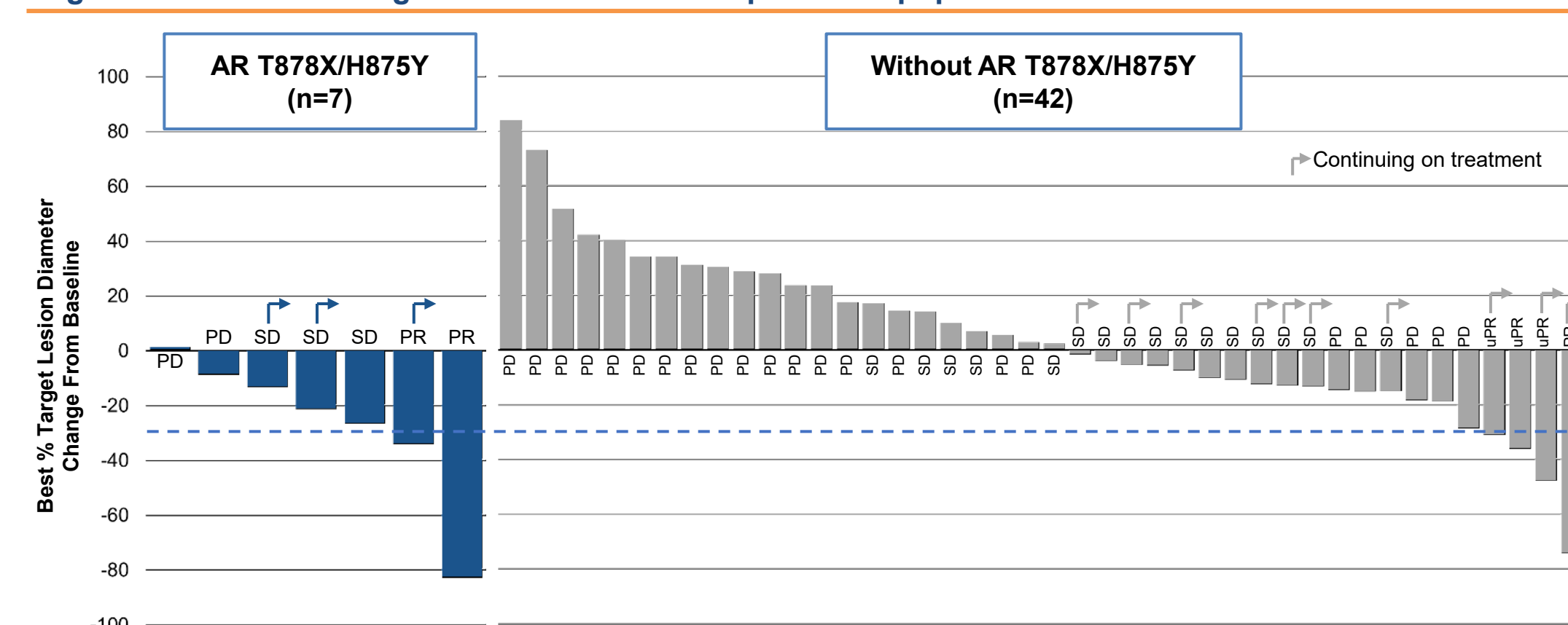
## Methods

- The ongoing ARDENT phase 2 expansion study (NCT03888612) is characterizing ARV-110 in patients with confirmed mCRPC and disease progression on or since their most recent therapy (≥2 rising PSA values)
- ARV-110 was administered at a starting dose of 420 mg QD
- Primary endpoints are PSA response rate, RECIST response rate, progression-free survival, and radiographic progression-free survival
- Secondary endpoints are duration of response, overall survival, AEs and laboratory abnormalities, and pharmacokinetic parameters
- This analysis includes complete phase 1 data and interim phase 2 data
  - The data cutoff date was December 20, 2021

## Efficacy

- Best percentage change in PSA from baseline across biomarker-evaluable phase 1/2 patients with ≥4 weeks of PSA follow-up is shown in Figure 1A
  - In addition to the T878X/H875Y subgroup, patients in the L702H/AR-V7 and Less Pretreated subgroups as well as in the phase 1 study had AR T878X/H875Y mutations
- The Less Pretreated subgroup in ARDENT had a similar non-AR molecular profile to the more pretreated, biomarker-defined subgroups (T878X/H875Y, WT/Other, and L702H/AR-V7; Figure 1B)
- In 28 patients with AR T878X/H875Y-positive tumors, the PSA<sub>50</sub> rate was 46% and the PSA<sub>30</sub> rate was 57% (Figure 2)
- Across the biomarker- and PSA-evaluable phase 1/2 patient population (n=152), the PSA<sub>50</sub> rate was 17% and the PSA<sub>30</sub> rate was 31%
- 2 of 7 patients with tumors harboring AR T878X/H875Y mutations had confirmed RECIST partial responses (Figure 3)
- Tumor shrinkage was observed regardless of AR T878X/H875Y mutation status in the phase 1/2 population (Figure 3)
- 12 (43%) AR T878X/H875Y-positive patients received ARV-110 for ≥24 weeks; 9 were ongoing as of the data cutoff date (Figure 4)

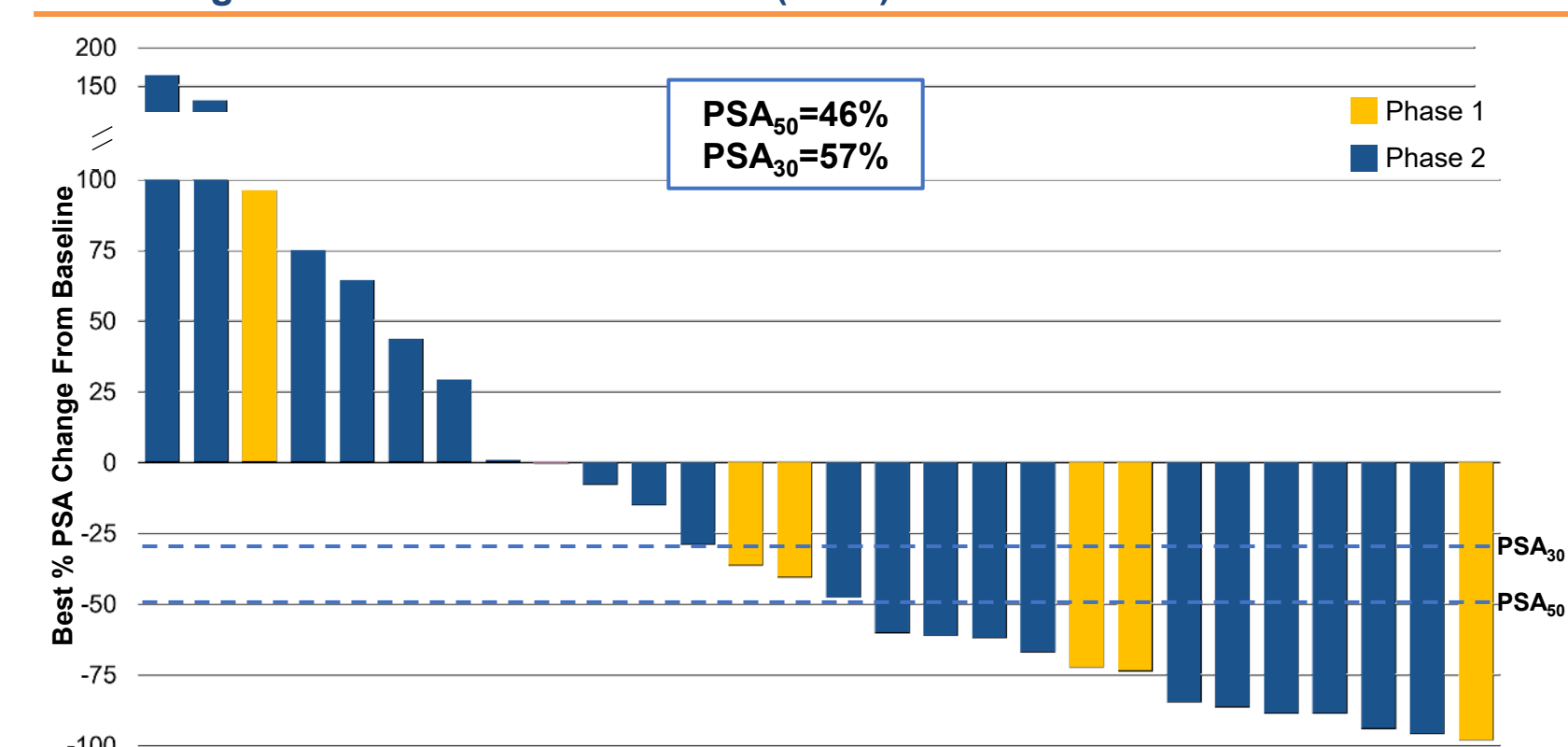
Figure 3: Tumor shrinkage in RECIST-evaluable phase 1/2 population\*



\*Includes biomarker-evaluable patients treated at or above the recommended phase 2 dose (phase 1 and 2) or with exposure above the minimum efficacious threshold in nonclinical xenograft tumor models (phase 1) and with measurable disease at baseline and ≥1 on-treatment scan; patients with SD as best response and <12 weeks follow-up were excluded. AR=androgen receptor; PD=progressive disease; PR=confirmed partial response; SD=stable disease; RECIST=Response Evaluation Criteria in Solid Tumors; T878X=T878A or T878S; uPR=unconfirmed partial response

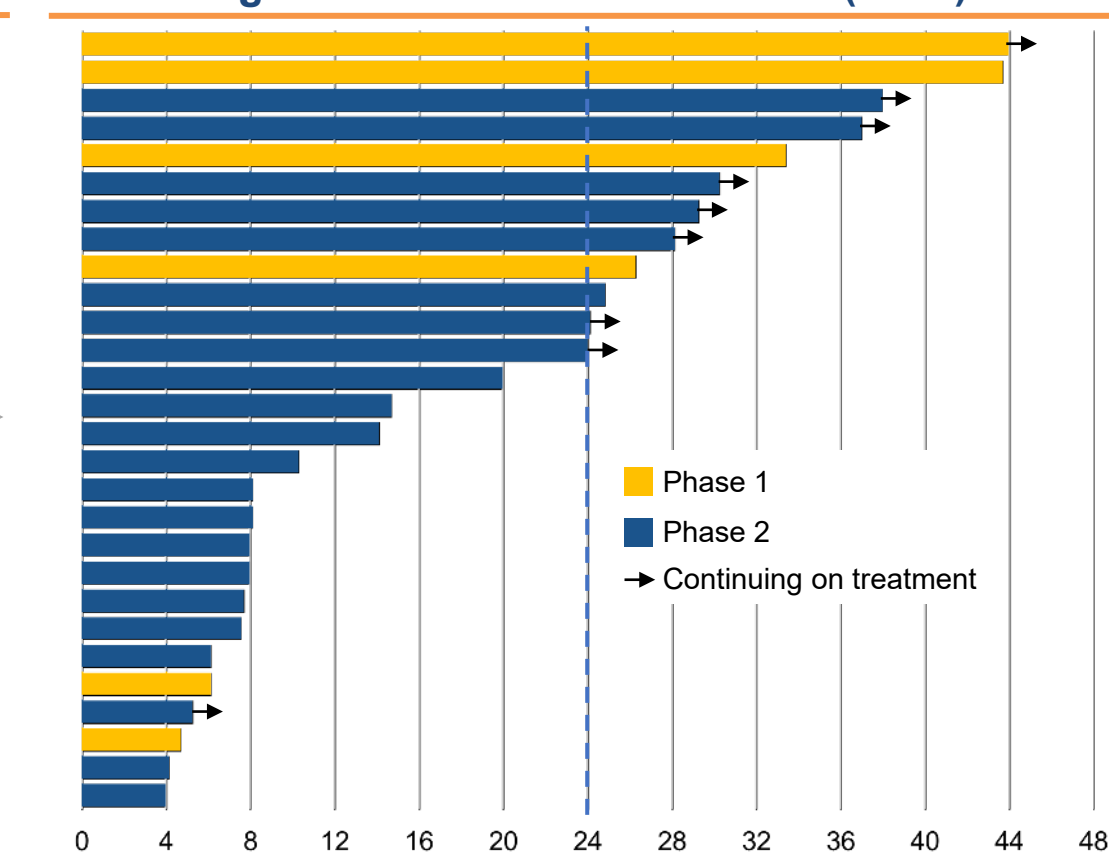
- Patients with 1–2 prior NHAs and ≤1 prior chemotherapy regimen each for castration-sensitive prostate cancer and CRPC were enrolled in biomarker-defined subgroups:
  - T878X/H875Y: AR T878A/S and/or H875Y mutations
  - WT/Other: Wild-type AR or AR alterations other than T878A/S, H875Y, L702H, or AR-V7
  - L702H/AR-V7: AR L702H or AR-V7 alterations (co-occurring T878X/H875Y included); AR L702H and AR-V7 are not degraded by ARV-110
- Patients with 1 prior NHA and no prior chemotherapy were enrolled in a clinically defined, biomarker agnostic subgroup (Less Pretreated)

Figure 2: Best percentage change in PSA from baseline in patients with tumors harboring AR T878X/H875Y mutations (n=28)\*



\*Includes biomarker-evaluable patients treated at or above the recommended phase 2 dose (phase 1 and 2) or with exposure above the minimum efficacious threshold in nonclinical xenograft tumor models (phase 1) and with ≥4 weeks of PSA follow-up. AR=androgen receptor; PSA=prostate-specific antigen; PSA<sub>30</sub>=best PSA declines ≥30%; PSA<sub>50</sub>=best PSA declines ≥50%; T878X=T878A or T878S

Figure 4: Time on treatment in patients with tumors harboring AR T878X/H875Y mutations (n=28)\*



\*Includes biomarker-evaluable patients treated at or above the recommended phase 2 dose (phase 1 and 2) or with exposure above the minimum efficacious threshold in nonclinical xenograft tumor models (phase 1). AR=androgen receptor; PSA=prostate-specific antigen; T878X=T878A or T878S

## Reference

- Chirnomas D, 28th PCF Annual Scientific Retreat. 2021.

## Contact

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## Acknowledgments

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