

# Novel Triplet with Darolutamide Improves OS for mHSPC

## BACKGROUND

Despite recent progress in systemic treatment, metastatic, hormone-sensitive prostate cancer (mHSPC) has poor outcomes with an overall survival of 30% at 5 years.<sup>1</sup> Triplet therapy provides another option to improve overall survival in this complex population.

### CLINICAL QUESTION:

Does a combination of darolutamide, androgen-deprivation therapy (ADT), and docetaxel improve survival among patients mHSPC?

1.Oing & Bristow, 2023

## METHODS

Study design was a phase 3, international, randomized, double-blind, placebo-controlled trial. Primary end point was overall survival.

### STUDY POPULATION 1305 PATIENTS

**651**  
Darolutamide  
+ADT + docetaxel

**654**  
Placebo  
+ ADT + docetaxel

67  
years old

### MEDIAN AGE



Patient demographics and disease characteristics	Darolutamide + ADT + docetaxel (n = 651)	Placebo + ADT + docetaxel (n = 654)
Gleason score ≥8 at initial diagnosis, n (%)	505 (77.6)	516 (78.9)
High volume disease at baseline, n (%) <sup>2</sup>	497 (76.3)	508 (77.6)
Metastasis stage at screening, n (%): M1c, visceral metastasis with or without lymph-node or bone metastases	111 (17.1)	118 (18.0)
Metastasis stage at initial diagnosis, n (%): M1, distant metastasis	558 (85.7)	566 (86.5)
ECOG performance status score, n (%)	0: 466 (71.6) 1: 185 (28.4)	0: 462 (70.6) 1: 190 (29.1)
Serum PSA level, median (range), ng/mL	30.3 (0.0-9219.0)	24.2 (0.0-11,947.0)

### Differences between baseline demographics/disease characteristics of triplet combination therapy groups in ARASENS and PEACE-1 trials:

Patient demographics and disease characteristics	ARASENS trial (n = 1305)	PEACE-1 trial (n = 710*)
Treatment arms	1. ADT + docetaxel (n = 654) 2. ADT + docetaxel + darolutamide (n = 651)	1. ADT + docetaxel (n = 355) 2. ADT + docetaxel + abiraterone acetate and prednisone (AAP) (n = 355)
High volume disease at baseline, n (%)	1005 (77.0) <sup>2</sup>	456 (64.2)
Metastasis stage at screening, n (%): M1c, visceral metastasis with or without lymph-node or bone metastases	229 (17.5)	88 (12.3)
Metastasis stage at initial diagnosis, n (%): M1, distant metastasis	1124 (86.1)	710 (100)

\*ADT with docetaxel subgroups in PEACE-1 trial

## RESULTS

### PRIMARY ENDPOINT

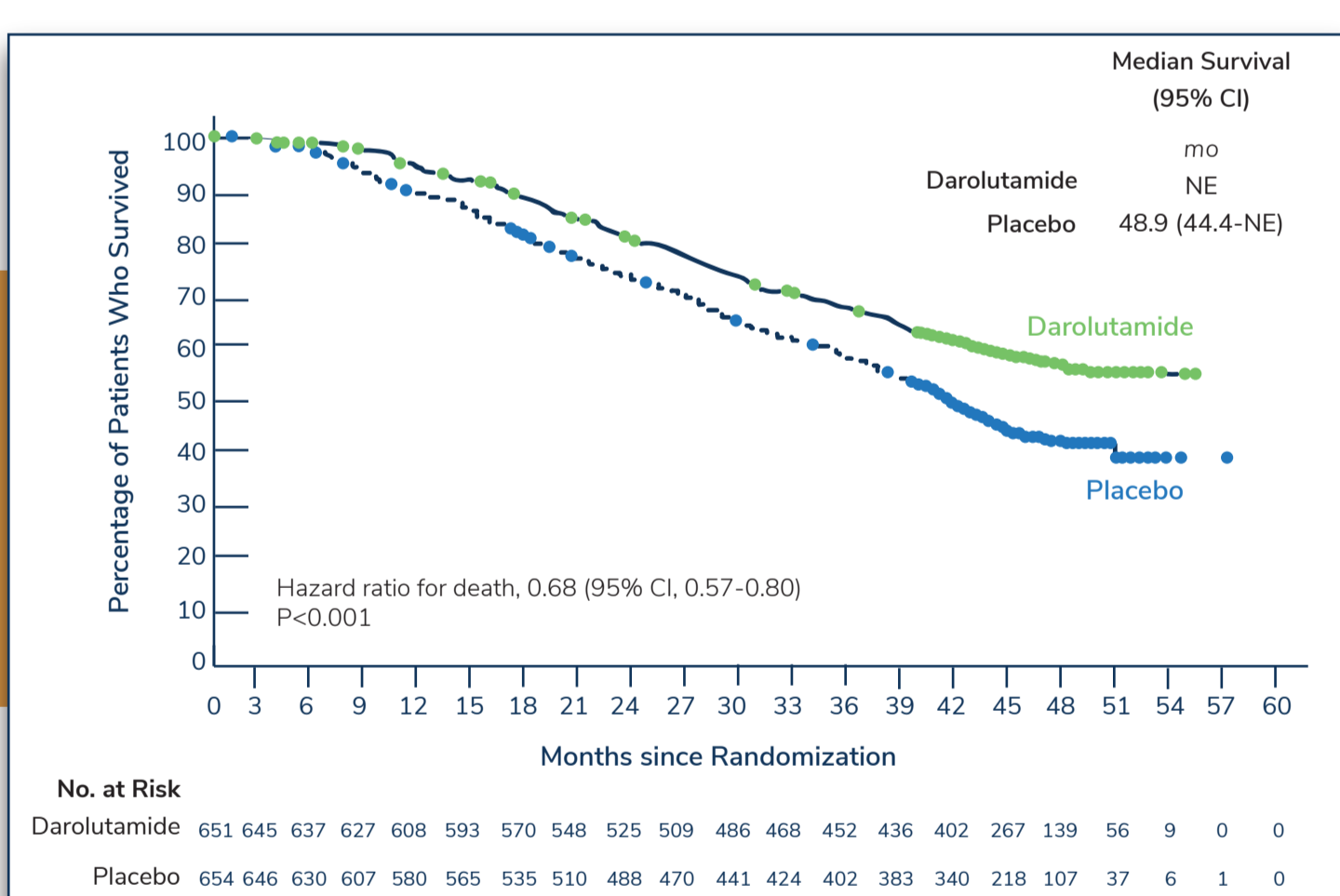
32.5% reduction in the risk of death with an absolute survival benefit of 12.3% at 4 years

hazard ratio (HR), 0.68; 95% confidence interval (CI), 0.57 to 0.80; P<0.001

### PRIMARY ANALYSIS

Overall survival by subgroup (hazard ratio [95% CI])

- Visceral metastasis: HR, 0.79 (95% CI, 0.55 to 1.14)
- Metastatic stage at initial diagnosis:
  - M1 (de novo): HR, 0.71 (95% CI, 0.59 to 0.85)
  - M0 (recurrent): HR, 0.61 (95% CI, 0.35 to 1.05)
- High volume disease: HR, 0.69 (95% CI, 0.57 to 0.82)<sup>2</sup>



## RESULTS

### Primary analysis: Secondary efficacy endpoints

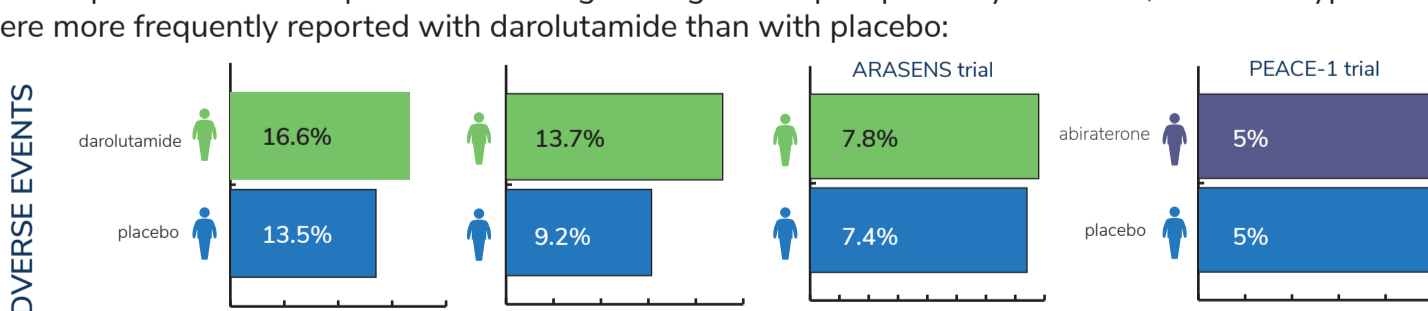
Key secondary endpoints, including time to mCRPC [mets], time to pain progression, time to symptomatic skeletal event (SSE), and time to subsequent antineoplastic therapy, all favoured the addition of darolutamide to ADT plus docetaxel.

### Secondary analysis: Efficacy & safety by disease volume and risk subgroup<sup>2</sup>

Overall survival (OS) in patients with high-volume, high-risk and low-risk mHSPC. OS results in the smaller low-volume disease subgroup were non-significant (HR, 0.68; 95% CI, 0.41 to 1.13).

### Safety profile/Adverse events

Adverse events (AEs) were similar between treatment groups. Most common AEs occurred more frequently during treatment overlap with docetaxel and included many known docetaxel-related toxicities. AEs of special interest for patients receiving darolutamide and docetaxel were more frequently reported with darolutamide than with placebo:



2. Hussain et al, Lancet, 2023, 3. Fizazi et al, 2022

## WHAT THIS STUDY ADDS

- Provides evidence for survival benefit of darolutamide in treatment-naive metastatic prostate cancer with consistent benefit in high volume population
- Adds to growing literature on feasibility and safety of upfront triplet therapy
- Whether all patients with low volume disease need treatment intensification beyond ADT and androgen receptor targeted (ARAT) agents requires further exploration

REFERENCES: (1) Fizazi K, Foulon S, Carles L, et al. Abiraterone plus prednisone added to androgen deprivation therapy and docetaxel in de novo metastatic castration-sensitive prostate cancer (PEACE-1): A multicentre, open-label, randomised, phase 3 study with a 2 x 2 factorial design. The Lancet. 2022;399(10336):1695-1707. doi:10.1016/S0140-6736(22)00367-1. (2) Hussain M, Tombal B, Saad F, et al. Darolutamide plus androgen-deprivation therapy and docetaxel in metastatic hormone-sensitive prostate cancer (mHSPC) by disease volume and risk subgroups in the phase III ARASENS trial. Journal of Clinical Oncology. 2023;41(20):3595-3607. doi:10.1200/JCO.2023.09.0441. (3) Oing C, Bristow RS. Systemic treatment of metastatic hormone-sensitive prostate cancer—upfront triplet versus doublet combination therapy. ESMO Open. 2023;8(2):101194. doi:10.1016/j.esmoop.2023.101194. (4) Smith MR, Hussain M, Saad F, et al. Darolutamide and survival in metastatic, hormone-sensitive prostate cancer. New England Journal of Medicine. 2022;386(12):1132-1142. doi:10.1056/nejmo211191

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