

DAROLUTAMIDE



INTRODUCTION

In the Phase 3 ARANOTE study, darolutamide + androgen-deprivation therapy (ADT) significantly improved radiologic progression-free survival (rPFS) versus placebo + ADT (HR 0.54; 95% CI: 0.41–0.71; $P < 0.0001$) in patients with metastatic hormone-sensitive prostate cancer¹

Disease volume is an established prognostic factor in mHSPC^{2,3}



OBJECTIVE

Post hoc analysis of ARANOTE evaluating the impact of disease burden on efficacy and safety outcomes in the ARANOTE study



METHODS

Patients were evaluated by disease volume (CHAARTED criteria)⁴ as high volume (>4 bone metastasis with at least one beyond the axial skeleton or any visceral metastases) or low volume (did not meet high-volume criteria)

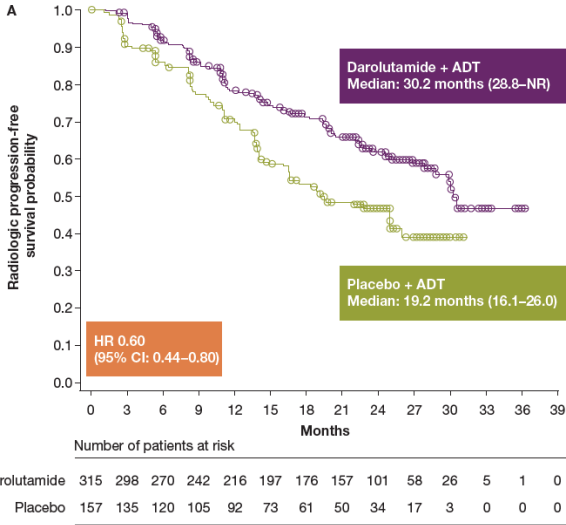
Primary endpoint: rPFS

DAROLUTAMIDE PLUS ANDROGEN-DEPRIVATION THERAPY IN PATIENTS WITH METASTATIC HORMONE-SENSITIVE PROSTATE CANCER: EFFICACY AND SAFETY BY DISEASE VOLUME IN THE PHASE 3 ARANOTE STUDY

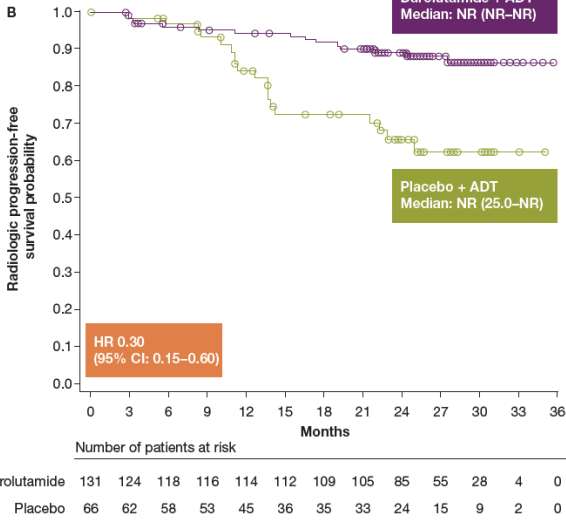
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High-volume disease subgroup:
Darolutamide + ADT reduced the risk of radiologic progression or death by 40%



Low-volume disease subgroup:
Darolutamide + ADT reduced the risk of radiologic progression or death by 70%

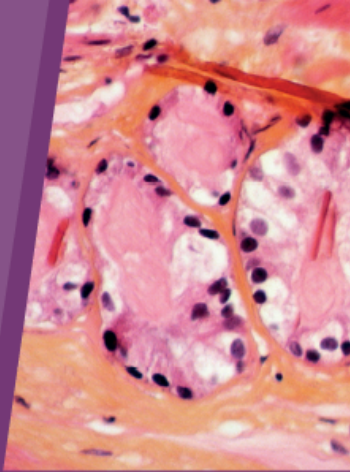


ADT, androgen-deprivation therapy; CI, confidence interval; HR, hazard ratio; NR, not reached.

Incidence of TEAEs was similar between treatment arms across disease volume subgroups

TEAEs, n (%)	High volume ^a		Low volume ^a		Overall ARANOTE population ^a	
	Darolutamide + ADT (n=314)	Placebo + ADT (n=156)	Darolutamide + ADT (n=131)	Placebo + ADT (n=65)	Darolutamide + ADT (n=445)	Placebo + ADT (n=221)
Any TEAE	292 (93.0)	143 (91.7)	113 (86.3)	56 (86.2)	405 (91.0)	199 (90.0)
Grade 3/4	98 (31.2)	50 (32.1)	39 (29.8)	17 (26.2)	137 (30.8)	67 (30.3)
Serious	89 (28.3)	40 (25.6)	16 (12.2)	12 (18.5)	105 (23.6)	52 (23.5)
TEAE leading to discontinuation of the study drug	23 (7.3)	13 (8.3)	4 (3.1)	7 (10.8)	27 (6.1)	20 (9.0)

^aSafety analysis population in which 2 patients randomized to placebo received darolutamide and were analyzed in the darolutamide group. ADT, androgen-deprivation therapy; TEAE, treatment-emergent adverse event.



CONCLUSIONS



Efficacy outcomes with darolutamide + ADT were improved versus placebo + ADT, regardless of disease volume



Darolutamide + ADT was well tolerated in high- and low-volume disease subgroups, with low treatment discontinuation rates



Patients with low-volume mHSPC had marked treatment efficacy with minimal treatment burden

SCAN ME FOR MORE INFO



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References: 1. Saad F, et al. J Clin Oncol 2024;42:4271–4281. 2. Hatabi S, et al. Ann Oncol 2024;35:S975. 3. Wenzel M, et al. Clin Prostate Cancer 2024;12:371–e11. 4. Sweeney CJ, et al. N Engl J Med 2015;373:737–746.

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Supplementary material

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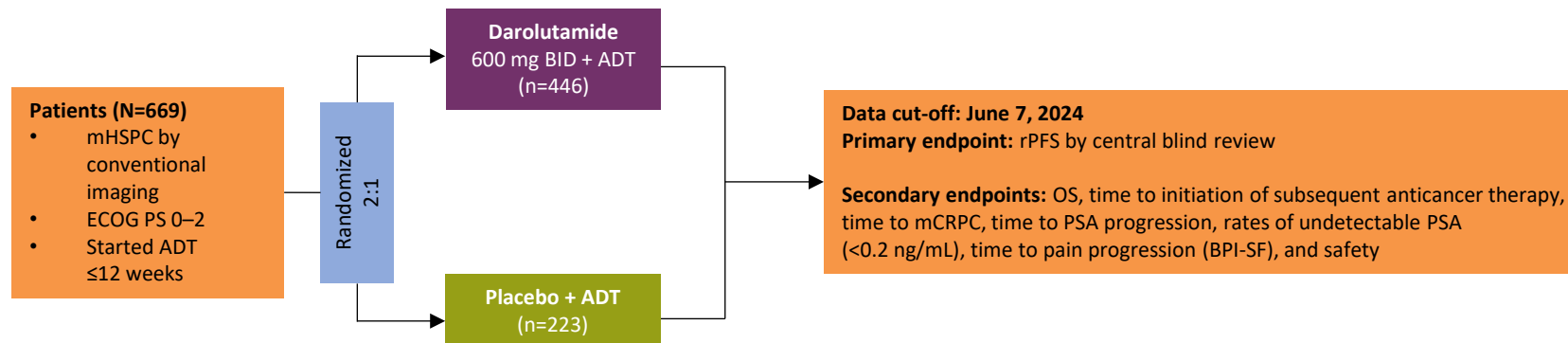
¹⁰All India Institute of Medical Sciences, New Delhi, India.

Plain language summary

- In this study, men with a type of advanced prostate cancer that has spread to other parts of the body received treatment with the combination of darolutamide plus androgen-deprivation therapy (also called ADT), which lowers male hormone levels in the body, or ADT alone
- Darolutamide plus ADT worked better than ADT alone in men no matter if the cancer had spread a little or a lot throughout the body, reducing the risk of the cancer getting worse or leading to death by 70% in men with little cancer spread and by 40% in men with a lot of cancer spread
- Darolutamide also delayed the time it took for the cancer to become resistant to hormone-lowering therapy and for prostate-specific antigen (PSA) to rise, and more men receiving darolutamide had their PSA drop to very low levels
- Adverse events were about the same for both groups of men based on the amount of cancer spread, and fewer men taking darolutamide stopped treatment because of adverse events
- Darolutamide was effective and well tolerated in men with advanced prostate cancer who had a little or a lot of cancer spread throughout their body, and men who had little cancer spread responded to darolutamide well with little treatment burden

Methods

- ARANOTE was a global, randomized, double-blind Phase 3 study of darolutamide + ADT versus placebo + ADT in patients with mHSPC
- In this post hoc analysis, patients were evaluated by disease volume, which was defined according to CHAARTED criteria¹:
 - High-volume: Presence of visceral metastases and/or ≥ 4 bone lesions with ≥ 1 beyond the vertebral bodies and pelvis
 - Low-volume: Disease that does not meet high-volume criteria



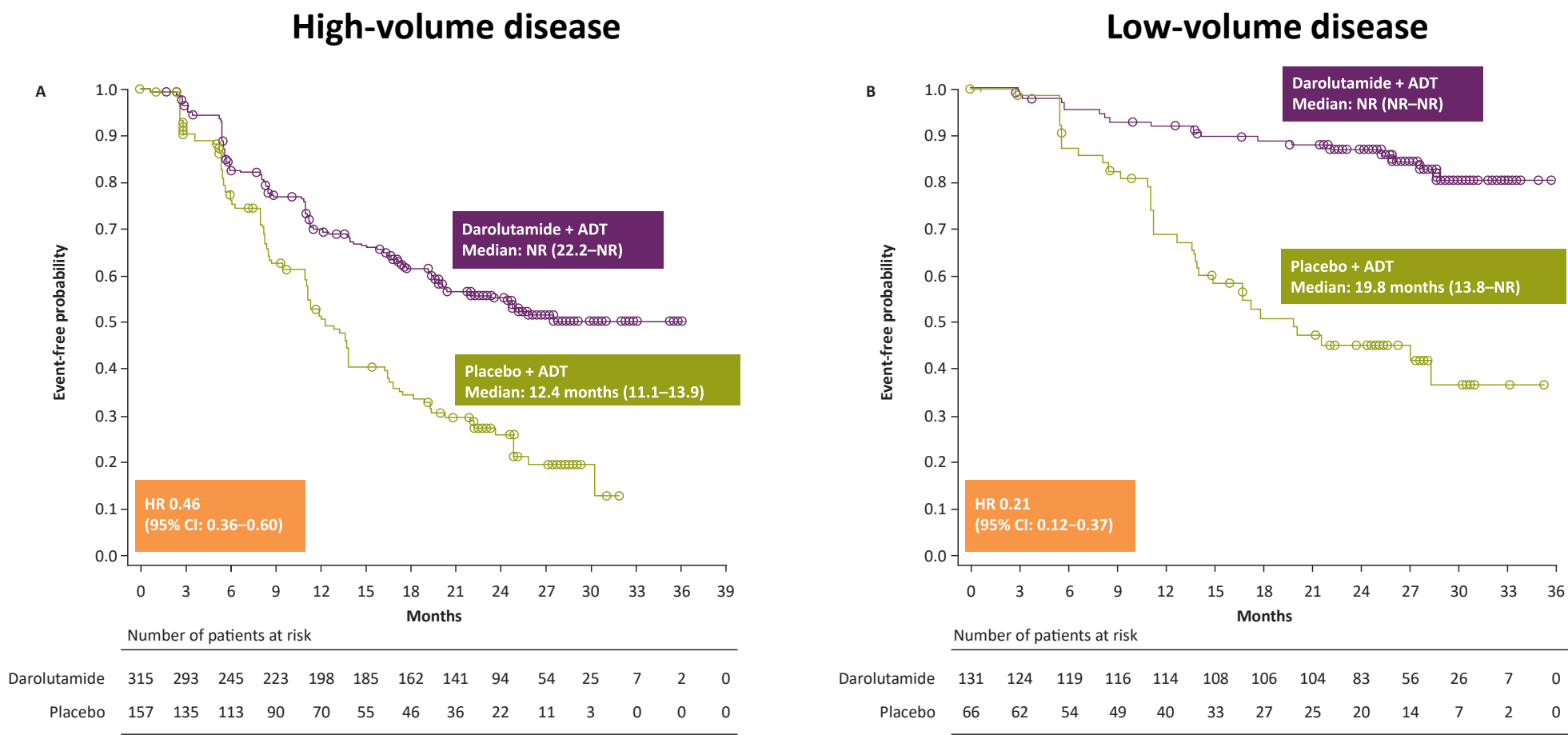
1. Sweeney CJ, et al. N Engl J Med 2015;373:737–746.

ADT, androgen-deprivation therapy; BID, twice a day; BPI-SF, Brief Pain Inventory (Short Form); ECOG PS, Eastern Cooperative Oncology Group Performance Status; mCRPC, metastatic castration-resistant prostate cancer; mHSPC, metastatic hormone-sensitive prostate cancer; OS, overall survival; PSA, prostate-specific antigen; rPFS, radiologic progression-free survival.

Baseline demographics and disease characteristics

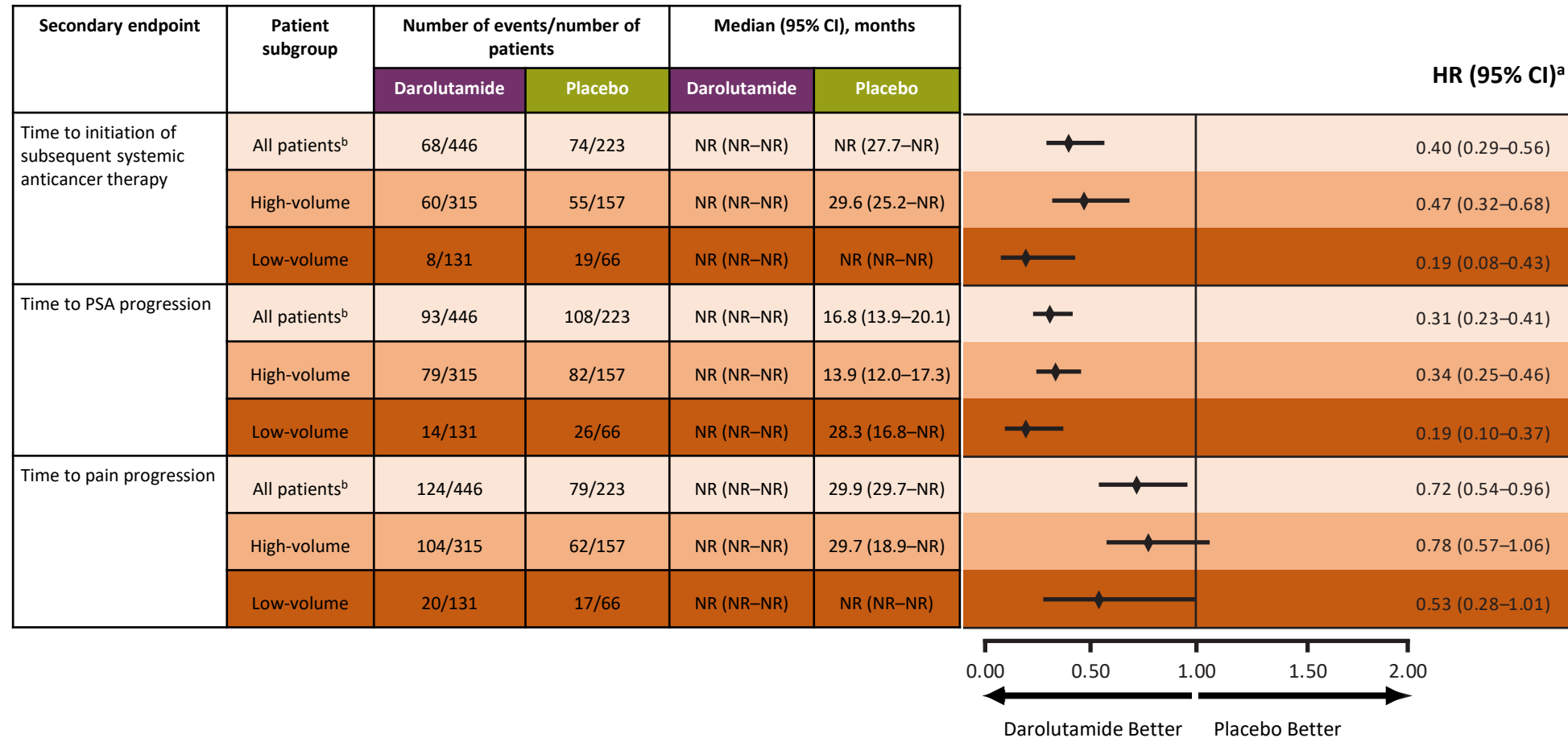
	High-volume		Low-volume		All patients (N=669)
	Darolutamide + ADT (n=315)	Placebo + ADT (n=157)	Darolutamide + ADT (n=131)	Placebo + ADT (n=66)	
Age, median (range), years	69.0 (43–93)	69.0 (47–89)	71.0 (47–89)	70.0 (45–91)	70.0 (43–93)
ECOG PS 0, n (%)	149 (47.3)	59 (37.6)	86 (65.6)	39 (59.1)	333 (49.8)
Gleason score of ≥8 at initial diagnosis, n (%)	236 (74.9)	110 (70.1)	75 (57.3)	36 (54.5)	457 (68.3)
Metastasis stage at initial diagnosis, n (%) De novo	245 (77.8)	121 (77.1)	72 (55.0)	47 (71.2)	485 (72.5)
Serum PSA level, median (range), ng/mL	28.9 (0.09–15,915)	27.0 (0.03–8533)	10.9 (0.02–3915)	15.6 (0.02–7050)	21.3 (0.02–15,915)
Visceral metastases (centrally assessed), n (%)	53 (16.8)	27 (17.2)	0	0	80 (12.0)
Received prior local therapy, n (%)	52 (16.5)	26 (16.6)	28 (21.4)	14 (21.2)	120 (17.9)

Darolutamide delayed time to mCRPC



CI, confidence interval; HR, hazard ratio; mCRPC, metastatic castration-resistant prostate cancer; NR, not reached.

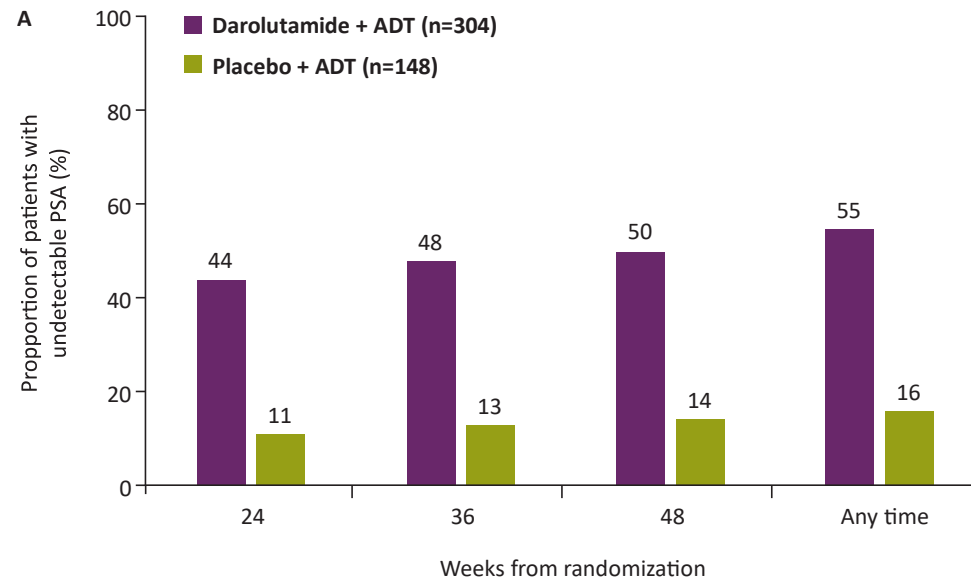
ARANOTE secondary efficacy endpoints by disease volume



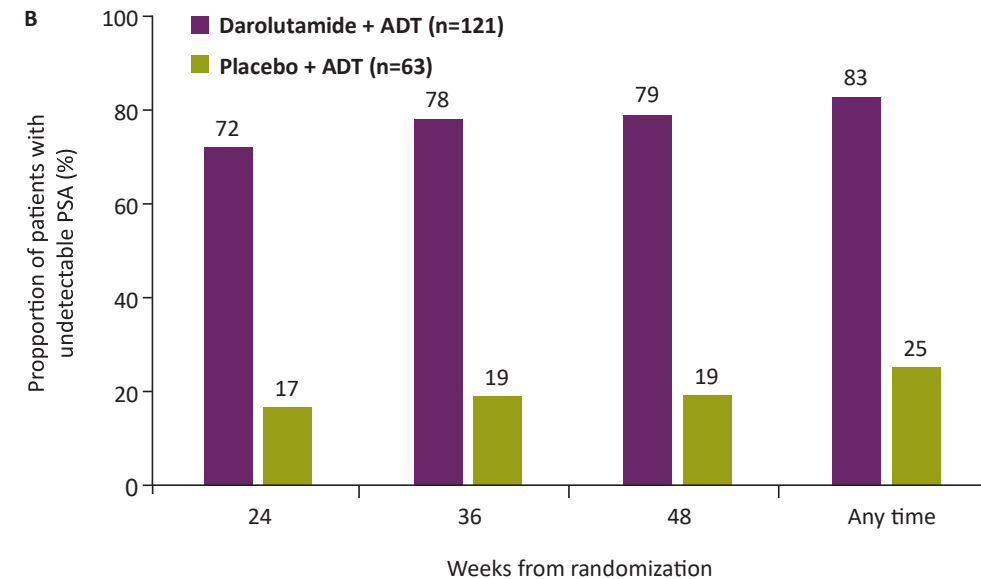
^aBased on unstratified Cox regression model for high/low volume subgroups. ^bIncludes all randomized patients according to planned treatment.

Patients with undetectable PSA <0.2 ng/mL) in the high-volume and low-volume subgroups^a

High-volume disease



Low-volume disease



^aOf those with baseline PSA ≥ 0.2 ng/mL.