

Impactful data in mHSPC over the last year

Prof. Stéphane Oudard

Prof. Antonio Alcaraz

Prof. Ugo de Giorgi

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XTANDI™ (enzalutamide) indications



XTANDI is indicated, as per the EMA SmPC:

- As monotherapy or in combination with ADT for the treatment of adult men with high-risk biochemical recurrent nmHSPC who are unsuitable for salvage radiotherapy
- In combination with ADT for the treatment of adult men with mHSPC
- For the treatment of adult men with high-risk nmCRPC
- For the treatment of adult men with mCRPC who are asymptomatic or mildly symptomatic after failure of ADT and in whom chemotherapy is not yet clinically indicated
- For the treatment of adult men with mCRPC whose disease has progressed on or after docetaxel therapy





ARANOTE study: Review of the results in the light of doublet in mHSPC

Prof. Stéphane Oudard, MD, PhD

Medical Oncologist

Hôpital Européen Georges Pompidou Assistance Publique Hôpitaux de Paris; Université Paris Cité, Paris, France

stephane.oudard@aphp.fr













Disclosures



Research funding:

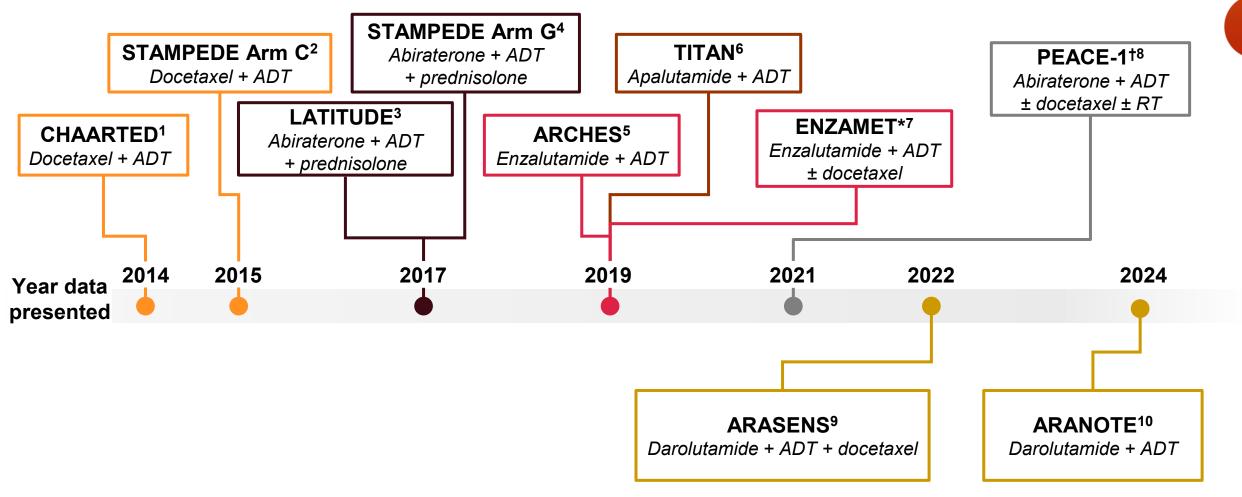
AstraZeneca, Bayer, BMS, Ipsen, Novartis, Pfizer

Consultancy:

Astellas, Bayer, BMS, Eisai, Ipsen, Janssen, Merck/MSD, Novartis, Pfizer, Roche

The presenter has received an honorarium for this presentation.

Evolution of care for patients with mHSPC



^{*}ENZAMET was not powered to analyse the results of overall survival in individual subgroups. Therefore, an improvement in overall survival cannot be demonstrated formally in any subgroup, including mHSPC patients taking XTANDI + LHRH therapy with or without concomitant docetaxel. †Please note this combination is not licensed in the UK or Europe for mHSPC.

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ADT, androgen deprivation therapy; LHRH, luteinising hormone releasing hormone; mHSPC, metastatic hormone-sensitive prostate cancer; RT, radiotherapy.

^{1.} Sweeney C, et al. *J Clin Oncol* 2014;32(suppl):LBA2; 2. James ND, et al. *J Clin Oncol* 2017;35(suppl):LBA3; 4. James ND, et al. *J Clin Oncol* 2017;35(suppl):LBA5003;

^{5.} Armstrong AJ, et al. *J Clin Oncol* 2019;37(suppl 7):687; 6. Chi KN, et al. *J Clin Oncol* 2019;37(15 suppl):5006; 7. Sweeney C, et al. *J Clin Oncol* 2019;37(18 suppl):LBA2; 8. Fizazi K, et al. *Ann Oncol* 2021;32(5 suppl):LBA5; 9. Smith MR, et al. *J Clin Oncol* 2022;40(suppl 6):13; 10. Saad F, et al. *Ann Oncol* 2024;35(2 suppl):LBA68.

Recommendations for the management of mHSPC (EAU - EANM - ESTRO - ESUR - ISUP - SIOG Guidelines 2025)

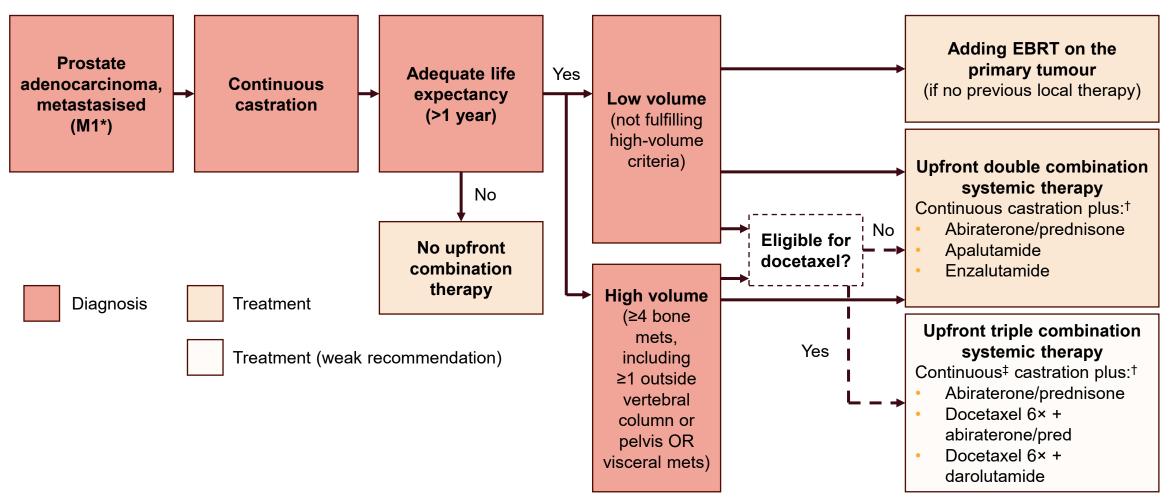


Image adapted from Cornford P, et al., 2025

Cornford P, et al. EAU-EANM-ESTRO-ESUR-ISUP-SIOG Guidelines on Prostate Cancer. Available at: https://d56bochluxqnz.cloudfront.net/documents/full-guideline/EAU-EANM-ESTRO-ESUR-ISUP-SIOG-Guidelines-on-Prostate-Cancer-2025-2025-03-24-120144 rinw.pdf. Last accessed: June 2025.

^{*}Based on staging using combination of bone scan and CT; †Alphabetical order; ‡Not for low volume metachronous disease.

CT, computed tomography; EBRT, external beam radiotherapy; mHSPC, metastatic hormone-sensitive prostate cancer.

Recommendations for the management of mHSPC (EAU - EANM - ESTRO - ESUR - ISUP - SIOG Guidelines 2025)

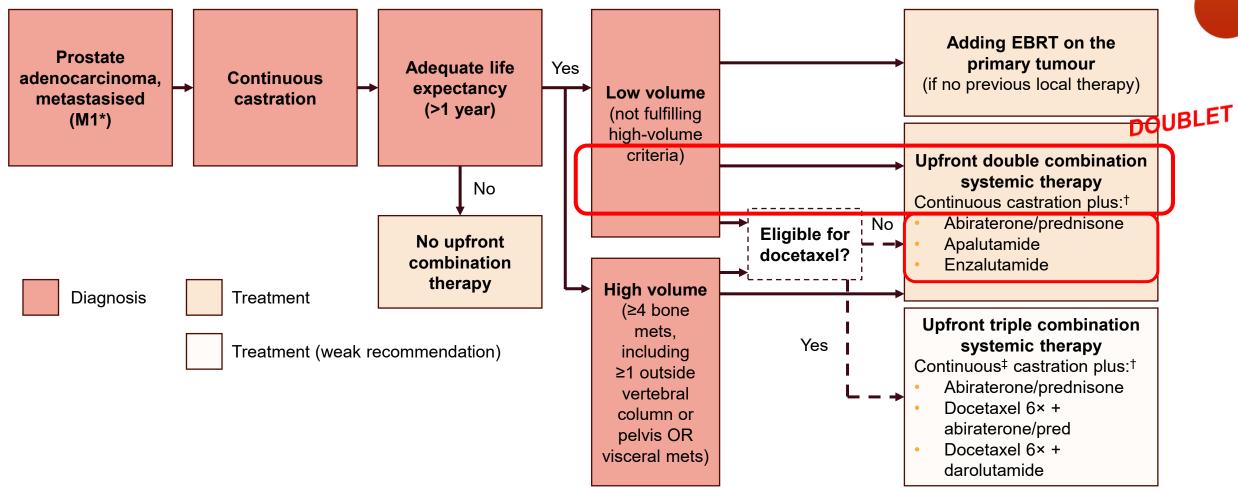


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Cornford P, et al. EAU-EANM-ESTRO-ESUR-ISUP-SIOG Guidelines on Prostate Cancer. Available at: https://d56bochluxqnz.cloudfront.net/documents/full-guideline/EAU-EANM-ESTRO-ESUR-ISUP-SIOG-Guidelines-on-Prostate-Cancer-2025-2025-03-24-120144 rinw.pdf. Last accessed: June 2025.

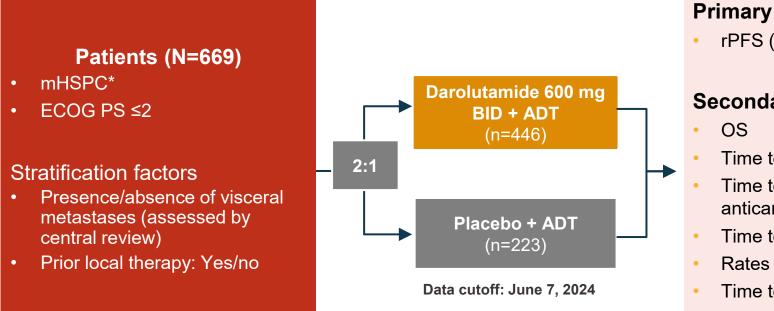
^{*}Based on staging using combination of bone scan and CT; †Alphabetical order; ‡Not for low volume metachronous disease.

CT, computed tomography; EBRT, external beam radiotherapy; mHSPC, metastatic hormone-sensitive prostate cancer.

Data from the ARANOTE study (DARO/ADT doublet)



A randomised, double-blind, placebo-controlled Phase III study



Primary endpoint

rPFS (assessed by central review)

Secondary endpoints

- Time to mCRPC
- Time to initiation of subsequent anticancer therapy
- Time to PSA progression
- Rates of undetectable PSA (<0.2 ng/mL)
- Time to pain progression (BPI-SF)
- Safety profile

Image adapted from Saad F, et al. 2024.

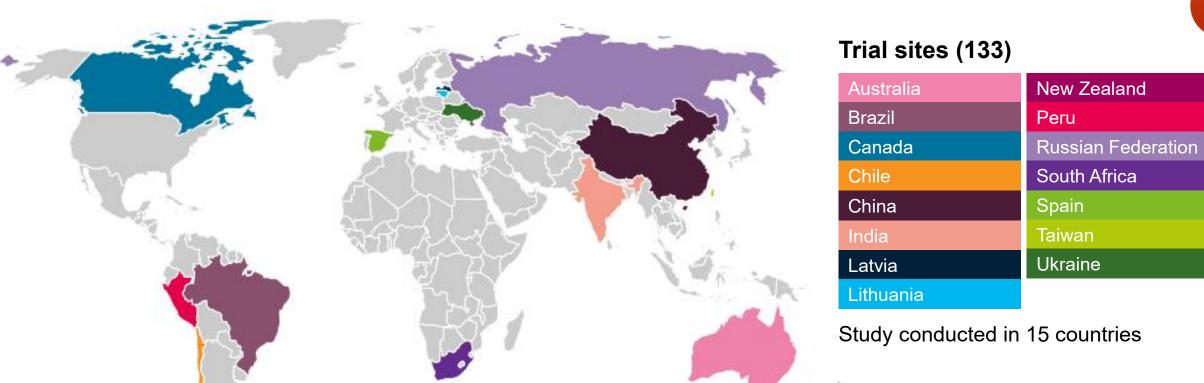
ADT, androgen deprivation therapy; BID, twice daily; BPI-SF, Brief Pain Inventory-Short Form; CRPC, castration-resistant prostate cancer; CT, computed tomography; ECOG PS, Eastern Cooperative Oncology Group performance status; mHSPC, metastatic hormone-sensitive prostate cancer; MRI, magnetic resonance imaging; OS, overall survival; PSA, prostate-specific antigen; rPFS, radiological progression-free survival.

Saad F, et al. Presented at ESMO 2024, September 13–17, 2024, Barcelona, Spain, Abstract LBA68.

^{*}Metastatic disease confirmed by conventional imaging method, either by a positive ^{99m}Tc-phosphonate bone scan, or soft tissue or visceral metastases, either by contrast-enhanced abdominal/pelvic/chest CT or MRI scan assessed by central review.

ARANOTE: Trial conducted in 15 countries





ARANOTE: Patient characteristics

| Characteristic | | Darolutamide + ADT (n=446) | Placebo + ADT (n=223) | |
|---|--------------------------|--|-----------------------|--|
| Age, years | Median (range) | 70 (43–93) | 70 (45–91) | |
| Race, n (%) | White | 251 (56.3) | 125 (56.1) | |
| | Asian | 144 (32.3) | 65 (29.1) | |
| | Black | 41 (9.2) | 24 (10.8) | |
| | Other | 10 (2.2) | 9 (4.0) | |
| | Asia | 141 (31.6) | 63 (28.3) | |
| Region, n (%) | Latin America | 119 (26.7) | 72 (32.3) | |
| | Europe and Rest of World | 186 (41.7) | 88 (39.5) | |
| F000 P0 = (%) | 0 | 235 (52.7) | 98 (43.9) | |
| ECOG PS, n (%) | 1/2 | 211 (47.3) | 125 (56.1) | |
| Gleason score at initial diagnosis, n (%) | ≥8 | 311 (69.7) | 146 (65.5) | |
| Serum PSA, ng/mL | Median (range) | 21.4 (0.02–15,915) | 21.2 (0.02–8533) | |
| Motostocco et initial diagnosis y (0/) | Yes [de novo] | 317 (71.1) | 168 (75.3) | |
| Metastases at initial diagnosis, n (%) | No [recurrent] | 251 (56.3) 144 (32.3) 41 (9.2) 10 (2.2) 141 (31.6) 119 (26.7) 186 (41.7) 235 (52.7) 211 (47.3) 311 (69.7) 21.4 (0.02–15,915) | 45 (20.2) | |
| Diagona valuma * m /0/ \ | High | 315 (70.6) | 157 (70.4) | |
| Disease volume,* n (%) | Low | 131 (29.4) | 66 (29.6) | |
| VI | Yes | 53 (11.9) | 27 (12.1) | |
| Visceral metastases, n (%) | No | 393 (88.1) | 196 (87.9) | |
| Driew level they are to (9/1) | Yes | 80 (17.9) | 40 (17.9) | |
| Prior local therapy, n (%) | No | 366 (82.1) | 183 (82.1) | |
| T-bldt-d f Cd F -t-l 2024 | | | | |

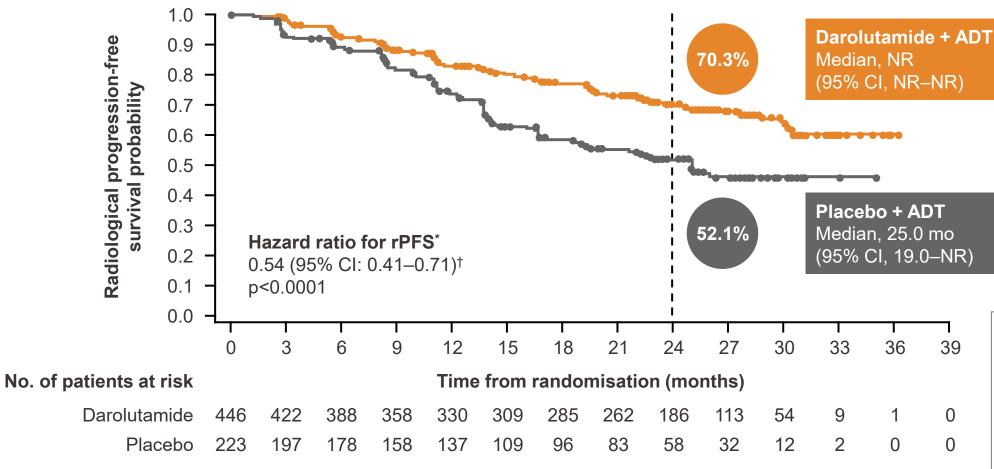
Table adapted from Saad F, et al. 2024.

^{*}Disease volume defined by CHAARTED criteria: presence of visceral metastases and/or ≥4 bone metastases with ≥1 beyond vertebral bodies and pelvis. ADT, androgen deprivation therapy; ECOG PS, Eastern Cooperative Oncology Group performance status; PSA, prostate-specific antigen. Saad F, et al. Presented at ESMO 2024, September 13–17, 2024, Barcelona, Spain, Abstract LBA68.

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ARANOTE: 46% reduction in the risk of radiological progression





Median follow-up for rPFS:

- Darolutamide + ADT 25.3 months
- Placebo + ADT 25.0 months

Figure adapted from Saad F, et al. 2024.

^{*&#}x27;Primary analysis occurred after 222 events (darolutamide 128; placebo 94).

[†]HR and 95% CI were calculated using the Cox model stratified on visceral metastases (Y/N) and prior therapy (Y/N).

ADT, androgen deprivation therapy; CI, confidence interval; mo, months; NR, not reached; rPFS, radiological progression-free survival. Saad F, et al. Presented at ESMO 2024, September 13–17, 2024, Barcelona, Spain, Abstract LBA68.

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ARANOTE: Benefit on secondary endpoints

154

(34.5)

93

(20.9)

68

(15.2)

124

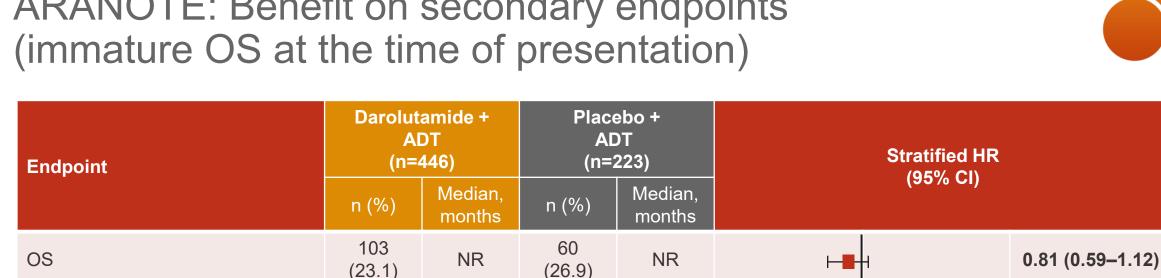
(27.8)

NR

NR

NR

NR



143

(64.1)

108

(48.4)

74

(33.2)

79

(35.4)

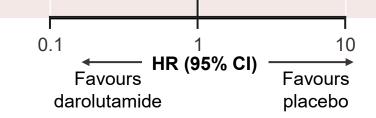
13.8

16.8

NR

29.9

At the time of primary analysis, OS data were immature



-

H

 \mathbf{H}

H

Time to mCRPC

Time to PSA progression

systemic therapy for PCa

Time to pain progression

Time to initiation of subsequent

0.40(0.32-0.51)

0.31 (0.23-0.41)

0.40(0.29 - 0.56)

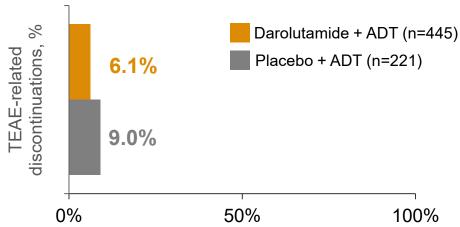
0.72 (0.54–0.96)

ARANOTE: Tolerance profile



| TEAE | Darolutamide + ADT (n=445*) | Placebo + ADT (n=221*) |
|--------------------|--------------------------------|---------------------------|
| Patients, n (%) | | |
| Any AE | 405 (91.0) | 199 (90.0) |
| Worst grade, n (%) | | |
| Grade 3 or 4 AE | 137 (30.8) | 67 (30.3) |
| Grade 5 AE | 21 (4.7) | 12 (5.4) |
| Serious AE, n (%) | 105 (23.6) | 52 (23.5) |





Median treatment duration was 24.2 months in the darolutamide arm vs. 17.3 months in the placebo arm

^{*}Two patients who were randomised to the placebo group but received darolutamide are analysed in the darolutamide group for the safety analysis set. ADT, androgen deprivation therapy; AE, adverse event; TEAE, treatment-emergent adverse event.

Saad F, et al. Presented at ESMO 2024, September 13–17, 2024, Barcelona, Spain, Abstract LBA68.

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ARANOTE: A benefit was observed across subgroups (regardless of disease volume) in rPFS

| Subgroup | | Darolutamide + ADT (n=446) | | Placebo + ADT (n=223) | | Stratified HR* | | |
|---|---|----------------------------|-----------------------|-------------------------|----------------|--------------------------|--------------------|------------------|
| | | Events/patients, n/N | Median, months | Events/patients, n/N | Median, months | (95% CI) | | |
| Overall population | | 128/446 | NR | 94/223 | 25.0 | ▶ | | 0.54 (0.41-0.71) |
| nge subgroups | <65 years | 37/118 | NR | 32/65 | 14.2 | H | | 0.44 (0.27-0.71) |
| | 65-74 years | 53/193 | NR | 35/96 | NR | H | | 0.64 (0.41-0.98) |
| | 75-84 years | 29/117 | NR | 22/52 | NR | ├ | | 0.48 (0.27-0.83) |
| | ≥85 years | 9/18 | 27.4 | 5/10 | 19.2 | | | 0.51 (0.16–1.66) |
| Baseline PSA values | <median< td=""><td>58/216</td><td>NR</td><td>44/111</td><td>26.0</td><td>├─■┤</td><td></td><td>0.55 (0.37-0.81)</td></median<> | 58/216 | NR | 44/111 | 26.0 | ├─■ ┤ | | 0.55 (0.37-0.81) |
| | ≥median | 67/220 | NR | 47/108 | 22.9 | ⊢ | | 0.55 (0.38-0.80) |
| COG PS at baseline | 0 | 61/235 | NR | 37/98 | NR | ├─■ -1 | | 0.55 (0.37-0.83) |
| | ≥1 | 67/211 | NR | 57/125 | 22.6 | ⊢ | | 0.56 (0.39-0.79) |
| Bleason score at initial diagnosis | Missing/not assessed | 5/13 | NR | 4/10 | 13.8 | | | |
| <8 ≥8 | <8 | 32/122 | NR | 30/67 | 22.9 | ├──■ ─┤ | | 0.46 (0.28-0.75) |
| | ≥8 | 91/311 | NR | 60/146 | 25.1 | | | 0.58 (0.42-0.81) |
| | High volume | 113/315 | 30.2 | 75/157 | 19.2 | H | | 0.60 (0.44-0.80) |
| | Low volume | 15/131 | NR | 19/66 | NR | | | 0.30 (0.15-0.60) |
| Race | White | 76/251 | NR | 55/125 | 22.2 | H | | 0.52 (0.36-0.73) |
| | Asian | 38/144 | NR | 24/65 | 25.0 | ⊢ | | 0.59 (0.35-0.98) |
| | Black | 10/41 | NR | 10/24 | NR | | 4 | 0.51 (0.21-1.23) |
| | Other | 4/10 | NR | 5/9 | 13,7 | | | |
| Seographic region | Europe and RoW | 56/186 | NR | 39/88 | 22.6 | ⊢ ■ | | 0.50 (0.33-0.75) |
| | Asia | 37/141 | NR | 23/63 | 25.0 | ⊢- | | 0.60 (0.35-1.01) |
| | Latin America | 35/119 | NR | 32/72 | 25.1 | ⊢ | | 0.56 (0.35-0.90) |
| isceral metastases | Yes | 21/53 | NR | 13/27 | 25.0 | ⊢ | - | 0.71 (0.35-1.41) |
| | No | 107/393 | NR | 81/196 | 25.0 | H∎H | | 0.52 (0.39-0.69) |
| rior local therapy | Yes | 19/80 | NR | 18/40 | 19.5 | ├ | | 0.34 (0.17-0.66) |
| | No | 109/366 | NR | 76/183 | 25.0 | H | | 0.59 (0.44-0.79) |
| able adapted from Saad F, et al. 20 HR and 95% CI were calculated fro DT, androgen deprivation therapy; R, hazard ratio; PSA, prostate-spe | m univariate analysis usir CI, confidence interval; E cific antigen; RoW, rest o | COG PS, Eastern Coo | pperative Oncology Gr | oup performance statu | us; | .1 1 1 Favours HR (95 | 10 (Sw CI) Favours |) |

darolutamide

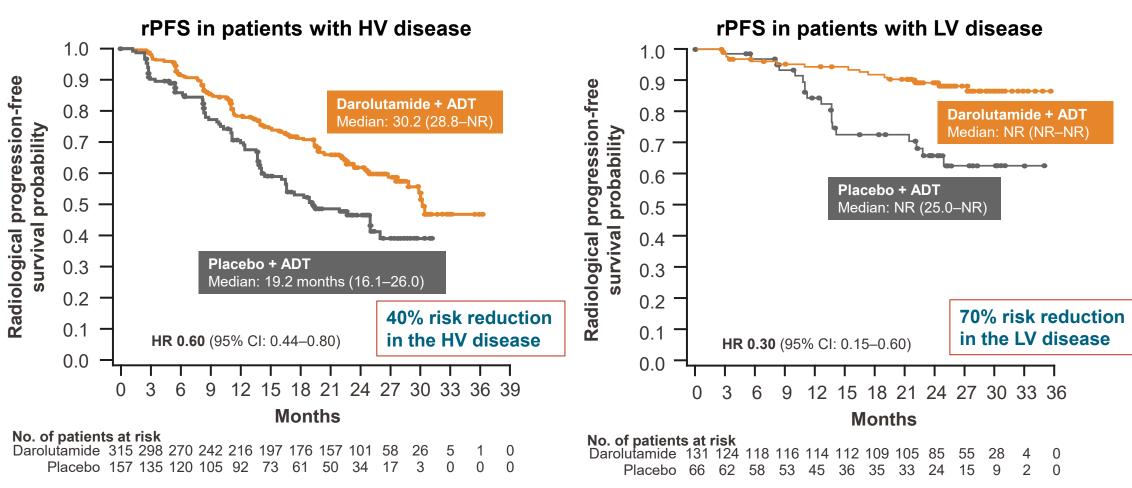
placebo

Saad F, et al. Presented at ESMO 2024, September 13-17, 2024, Barcelona, Spain, Abstract LBA68. MAT-NL-XTD-2025-00031 | July 2025

HR, hazard ratio; PSA, prostate-specific antigen; RoW, rest of world.

Efficacy of ADT + darolutamide doublet by disease volume: rPFS

Post hoc analysis of the ARANOTE study (ASCO-GU 2025)



Figures adapted from Saad F, et al. 2025.

ADT, androgen deprivation therapy; CI, confidence interval; HR, hazard ratio; HV, high volume; LV, low volume; NR, not reached; rPFS, radiologic progression-free survival.

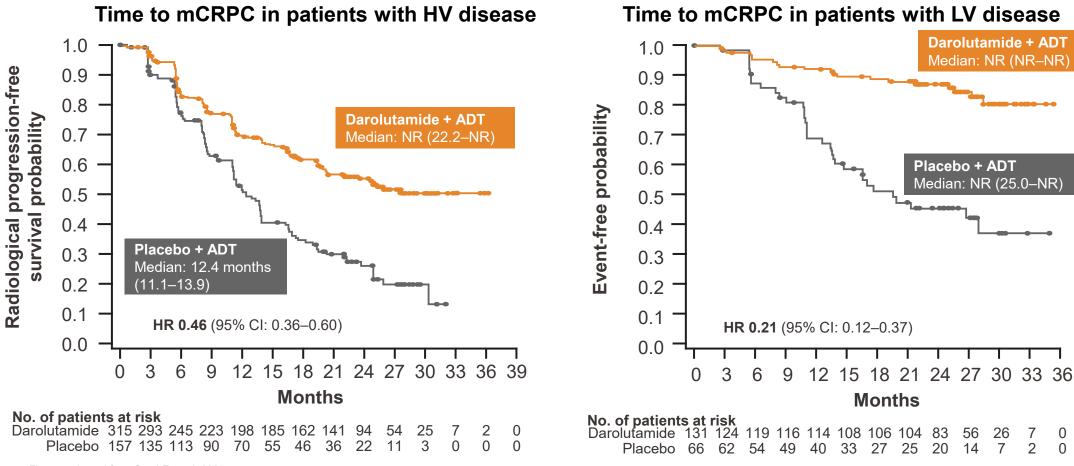
Saad F, et al. Presented at ASCO GU 2025, February 13–15, 2025, San Francisco, CA, USA, Abstract 151 – as reported in UroToday. Available at: https://www.urotoday.com/conference-highlights/asco-gu-2025/asco-gu-2025/asco-gu-2025/asco-gu-2025-prostate-cancer/158132-asco-gu-2025-darolutamide-adt-in-patients-with-mhspc-by-disease-volume-subgroup-analysis-of-the-phase-3-aranote-trial.html. Last accessed June 2025.

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Efficacy of ADT + darolutamide doublet by disease volume: Time to mCRPC

Post hoc analysis of the ARANOTE study (ASCO-GU 2025)



Figures adapted from Saad F, et al. 2025.

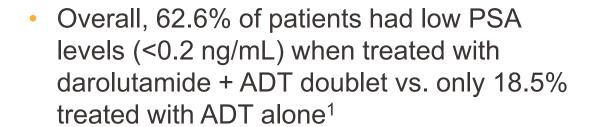
ADT, androgen deprivation therapy; CI, confidence interval; HR, hazard ratio; HV, high volume; LV, low volume; mCRPC, metastatic castration-resistant prostate cancer; NR, not reached.

Saad F, et al. Presented at ASCO GU 2025, February 13–15, 2025, San Francisco, CA, USA, Abstract 151 – as reported in UroToday. Available at: https://www.urotoday.com/conference-highlights/asco-gu-2025/asco-gu-2025/asco-gu-2025/asco-gu-2025/asco-gu-2025/asco-gu-2025/asco-gu-2025-darolutamide-adt-in-patients-with-mhspc-by-disease-volume-subgroup-analysis-of-the-phase-3-aranote-trial.html. Last accessed June 2025.

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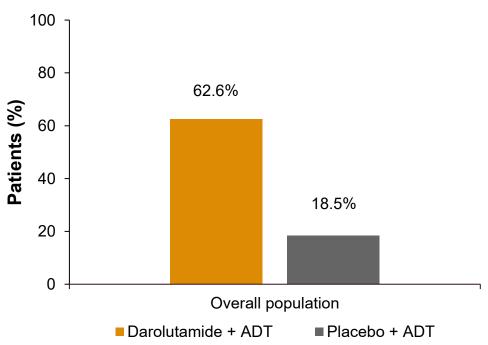
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ARANOTE: Impact on deep PSA response (1/2)



 As a reminder, 60% of patients treated with darolutamide + ADT + docetaxel in the ARASENS trial had low PSA levels (<0.2 ng/mL) at 1 year²

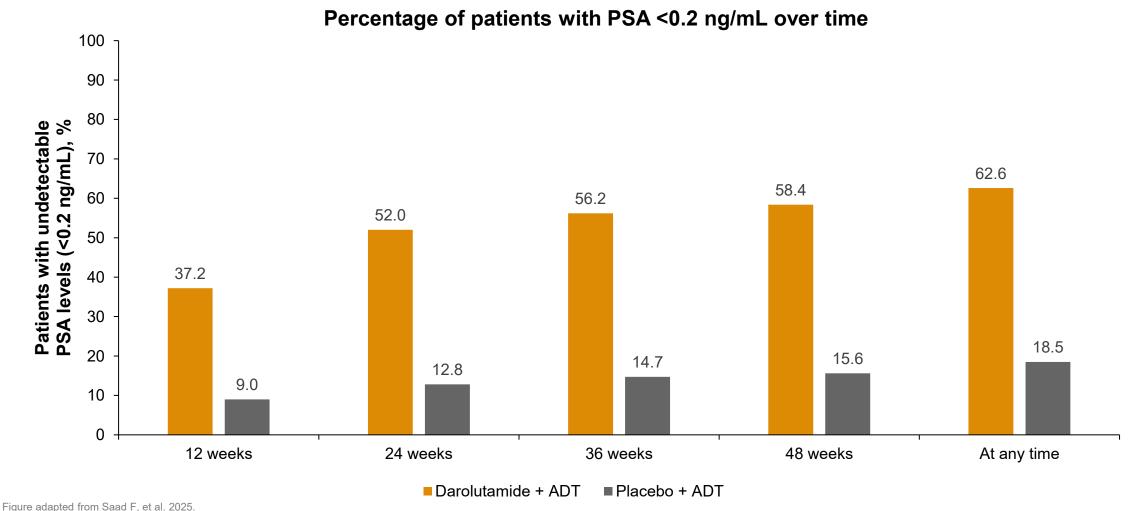
Percentage of patients with PSA levels <0.2 ng/mL¹



ARANOTE: Impact on deep PSA response (2/2)



18



ADT, androgen deprivation therapy; PSA, prostate-specific antigen.

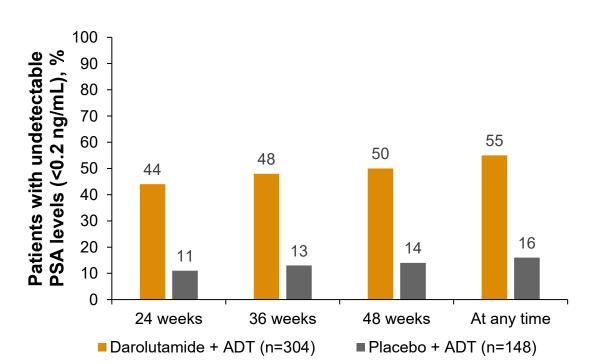
Saad F, et al. Presented at EAU 2025, March 21–24, 2025, Madrid, Spain, Abstract GC11 – as reported in UroToday. Available at: https://www.urotoday.com/conference-highlights/eau-2025/eau-2025/eau-2025-prostate-cancer/159221-eau-2025psa-response-with-darolutamide-plus-adt-in-patients-with-mhspc-in-aranote.html. Last accessed June 2025.

ARANOTE: Impact on deep PSA response by volume of disease

19

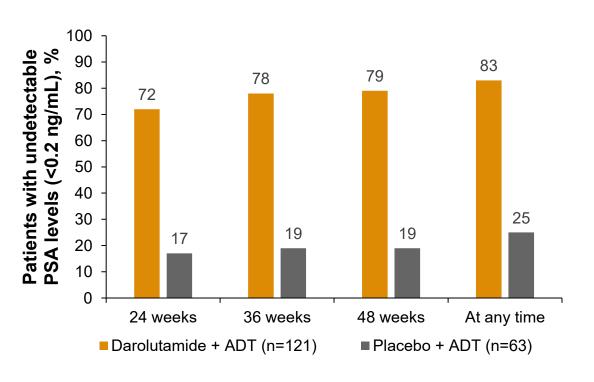
High volume

Patients with undetectable PSA (<0.2 ng/mL) in the HV subgroup (of those with baseline PSA ≥0.2 ng/mL)



Low volume

Patients with undetectable PSA (<0.2 ng/mL) in the LV subgroup (of those with baseline PSA ≥0.2 ng/mL)

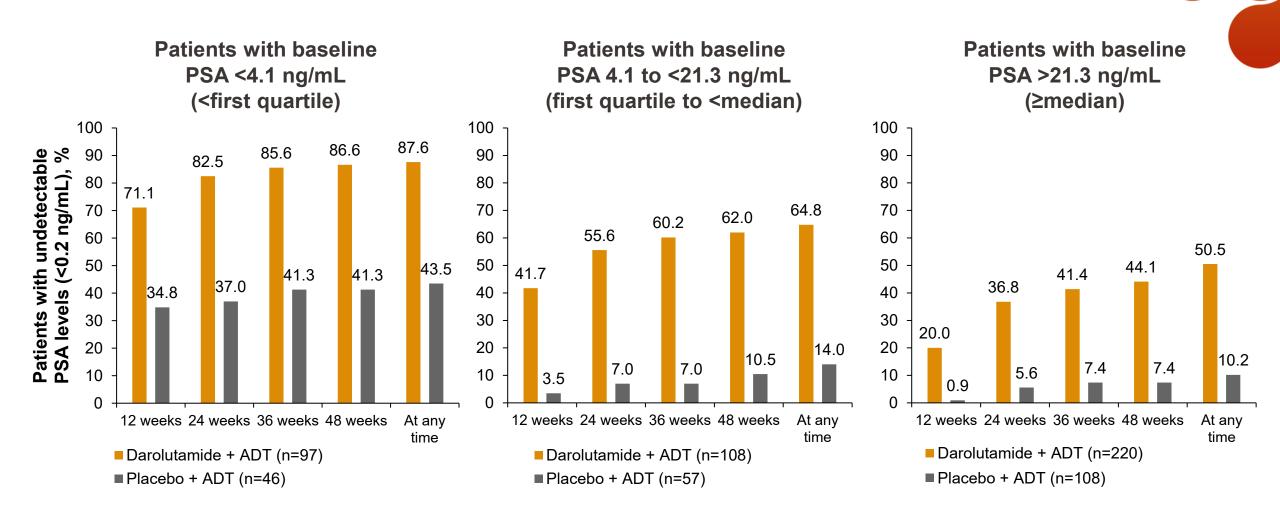


Figures adapted from Saad F, et al. 2025.

ADT, androgen deprivation therapy; HV, high volume; LV, low volume; PSA, prostate-specific antigen.

Saad F, et al. Presented at ASCO GU 2025, February 13–15, 2025, San Francisco, CA, USA, Abstract 151 – as reported in UroToday. Available at: <a href="https://www.urotoday.com/conference-highlights/asco-gu-2025/asco-gu-2025/asco-gu-2025/asco-gu-2025-prostate-cancer/158132-asco-gu-2025-darolutamide-adt-in-patients-with-mhspc-by-disease-volume-subgroup-analysis-of-the-phase-3-aranote-trial.html. Last accessed June 2025.





ADT, androgen deprivation therapy; PSA, prostate-specific antigen.

Saad F, et al. Presented at EAU 2025, March 21–24, 2025, Madrid, Spain, Abstract GC11 – as reported in UroToday. Available at: https://www.urotoday.com/conference-highlights/eau-2025/eau-2025-prostate-cancer/159221-eau-2025-psa-response-with-darolutamide-plus-adt-in-patients-with-mhspc-in-aranote.html. Last accessed June 2025.

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ARANOTE: rPFS according to PSA response

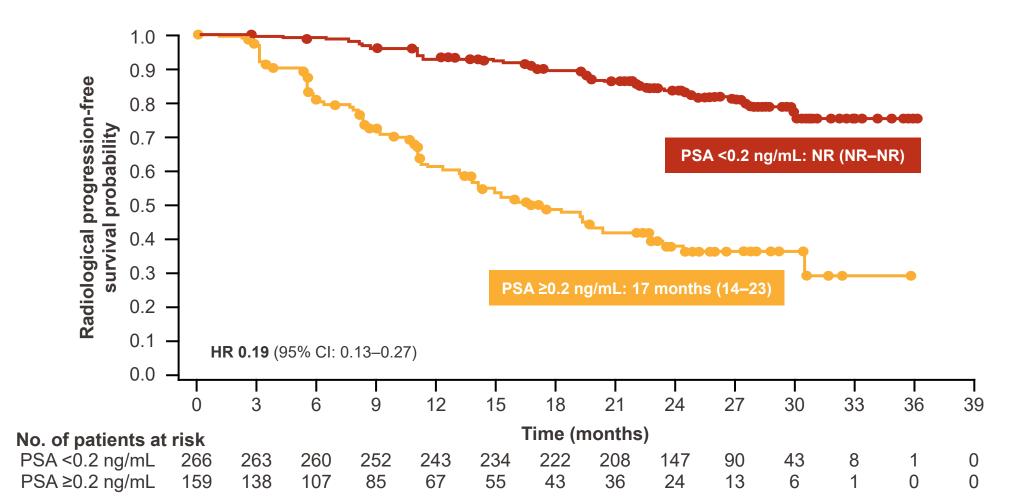


Figure adapted from Saad F, et al. 2025.

CI, confidence interval; HR, hazard ratio; PSA, prostate-specific antigen; rPFS, radiographic progression-free survival.

Saad F, et al. Presented at EAU 2025, March 21–24, 2025, Madrid, Spain, Abstract GC11 – as reported in UroToday. Available at: <a href="https://www.urotoday.com/conference-highlights/eau-2025/eau-

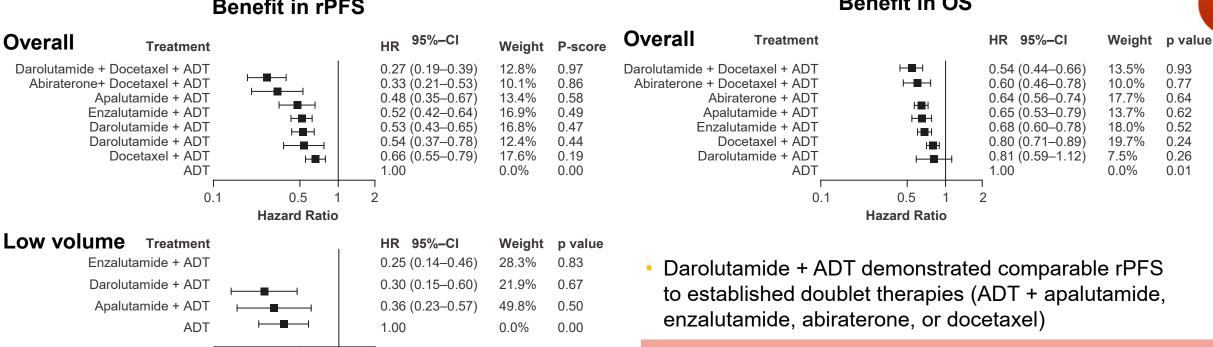
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Triplet or Doublet Therapy in Metastatic Hormone-sensitive Prostate Cancer Patients: An Updated Network Meta-analysis Including ARANOTE Data

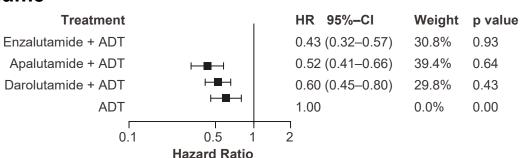
Benefit in rPFS

0.1

Benefit in OS



High volume



2

0.5

Hazard Ratio

The current data suggest that the combination of darolutamide + ADT offers another treatment option for mHSPC, demonstrating comparable rPFS to other ADT-based doublet therapies and an acceptable safety profile

Figures adapted from Hoeh B, et al. 2025.

ADT, androgen deprivation therapy; CI, confidence interval; mHSPC, metastatic hormone-sensitive prostate cancer; OS, overall survival; rPFS, radiographic progression-free survival

Hoeh B, et al. Eur Urol 2025; doi:10.1016/j.euf.2024.11.004 [Epub ahead of print]. MAT-NL-XTD-2025-00031 | July 2025

Conclusion on ARANOTE in mHSPC



- Darolutamide + ADT demonstrated a clinically significant delay in rPFS vs placebo + ADT with minimal treatment burden¹
- The results of ARANOTE confirm the efficacy and well-established acceptable safety profile of darolutamide, including a low discontinuation rate due to AEs¹
- The results of this second pivotal trial of darolutamide add to the body of evidence from ARASENS, supporting a potential role for darolutamide as a doublet therapy alongside its indication as a triplet with ADT and docetaxel¹

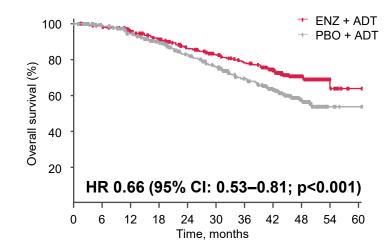
While not yet incorporated into guidelines, darolutamide + ADT doublet has recently been granted a license for use in patients with mHSPC²

Recent update: ARANOTE OS

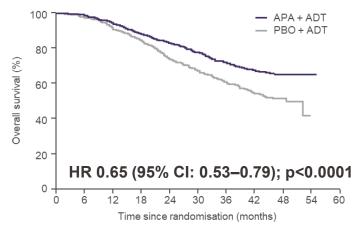
ARANOTE (darolutamide + ADT vs. PBO + ADT)¹

"There was no statistically significant improvement in OS at the final analysis (HR 0.78; 95% CI: 0.58, 1.05)."

ARCHES (enzalutamide + ADT vs. PBO + ADT) Data from 2022, median follow-up 44.6 months²



TITAN (apalutamide + ADT vs. PBO + ADT)
Data from 2021, median follow-up 44.0 months³



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Figures adapted from Armstrong AJ, et al., 2022 and Chi KN, et al. 2021.^{2,3}

Data shown are for illustrative purposes only, and direct comparisons should not be drawn. Studies differed in terms of design and duration of follow-up. ADT, androgen deprivation therapy; APA, apalutamide; CI, confidence interval; ENZ, enzalutamide; HR, hazard ratio; OS, overall survival; PBO, placebo.

1. US FDA. FDA approves darolutamide for metastatic castration-sensitive prostate cancer [Website]. Available at: https://www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-darolutamide-metastatic-castration-sensitive-prostate-cancer#:~:text=sensitive%20prostate%20cancer,FDA%20approves%20darolutamide%20for%20metastatic%20castration%2Dsensitive%20prostate%20cancer,Efficacy%20and%20Safety. Last accessed: June 2025; 2. Armstrong AJ, et al. *J Clin Oncol* 2022;40:1616–16223; 3. Chi KN, et al. *N Engl J Med* 2021;39:2294–2303.

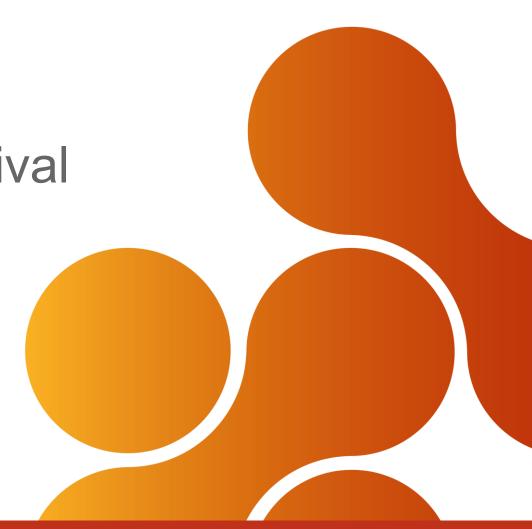




Relevance of ARCHES 5-year Follow-up Overall Survival

Antonio Alcaraz, MD, PhD

Chair, Department of Urology – Hospital Clinic Barcelona Professor of Urology – University of Barcelona

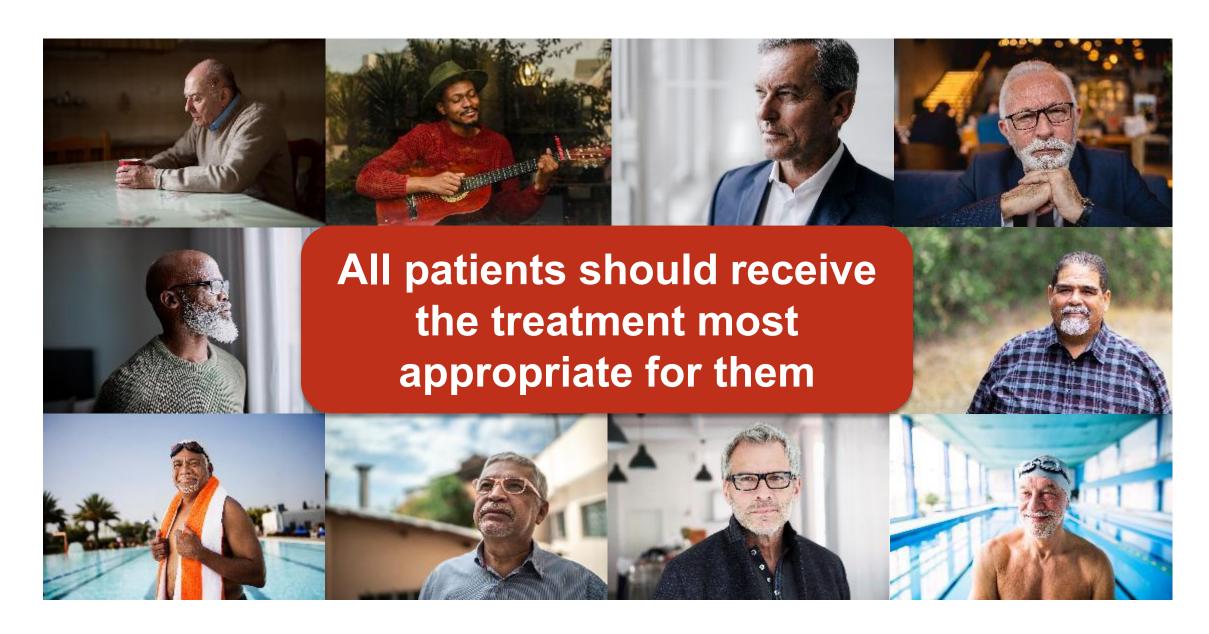


Disclosures

Professor Alcaraz has acted as a speaker for the following companies:

Astellas, Bayer, Casen Recordati, Ipsen, Janssen and Olympus

The presenter has received an honorarium for this presentation.



There are multiple systemic treatment options available today for patients with mHSPC



Monotherapy (ADT alone)

Doublet therapy (ADT + ARPI)

Triplet therapy (ADT + ARPI + DOC)

Real-world evidence suggests that most patients with mHSPC are not receiving guideline-recommended treatment

- Country-specific analysis of the proportion of patients with mHSPC receiving non-guideline-recommended treatments between 2018 and 2020⁴
- The first evidence of an OS benefit with ADT + ARPI for patients with mHSPC was seen in 2017^{1,2}
- The 2025 EAU guidelines recommend offering ADT + ARPI for patients with mHSPC who are fit for the regimen³
- However, real-world data have shown that 76% of patients with mHSPC are receiving treatments not recommended by guidelines⁴

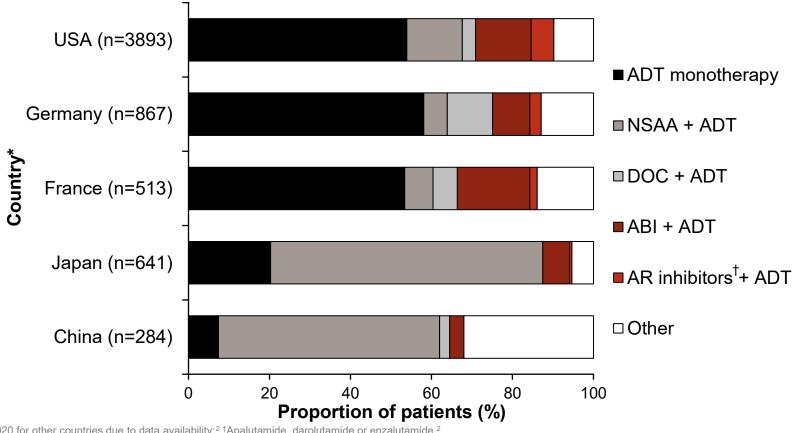


Figure adapted from Goebell PJ, et al. 2024.

^{*}Study time frame of January 2018 through December 2019 for China vs. June 2020 for other countries due to data availability;² †Apalutamide, darolutamide or enzalutamide.²
ABI, abiraterone; ADT, androgen deprivation therapy; ARPI, androgen receptor pathway inhibitor; BCR, biochemical recurrence; DOC, docetaxel; EAU, European Association of Urology; mHSPC, metastatic hormone-sensitive prostate cancer; nmHSPC, non-metastatic hormone-sensitive prostate cancer; NSAA, non-steroidal anti-androgen; OS, overall survival.

^{1.} Fizazi K, et al. N Engl J Med 2017;377:352-360; 2. James ND, et al. N Engl J Med 2017;377:338-351;

^{3.} EAU. EAU-EANM-ESTRO-ESUR-ISUP-SIOG guidelines on prostate cancer. Available at: uroweb.org/guideline/prostate-cancer/. Last accessed: June 2025;

Goebell PJ, et al. Future Oncol 2024; doi:10.2217/fon-2023-0814 [Epub ahead of print].
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Real-world evidence suggests that most patients with mHSPC are not receiving guideline-recommended treatment

Analysis of the proportion of patients with mHSPC in Australia receiving non-guideline-recommended treatments⁵

- The first evidence of an OS benefit with ADT + ARPI for patients with mHSPC was seen in 2017^{1,2}
- The 2025 EAU guidelines recommend offering ADT + ARPI for patients with mHSPC who are fit for the regimen³
- However, real-world data have shown that 76% of patients with mHSPC are receiving treatments not recommended by guidelines⁴

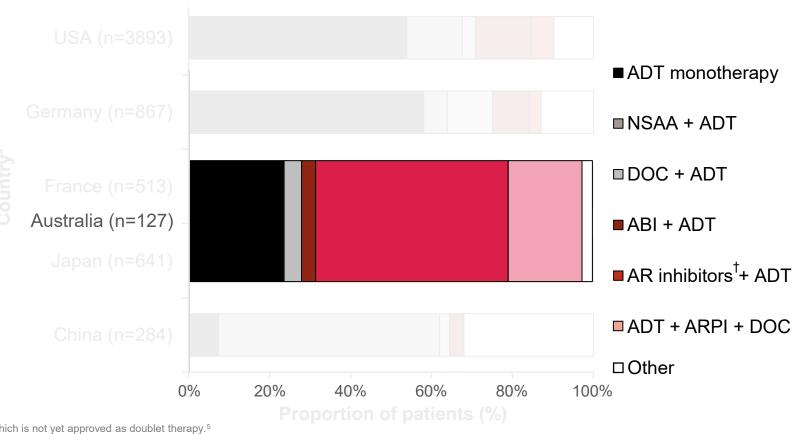


Figure adapted from Inderjeeth AJ, et al. 2024.

ABI, abiraterone; ADT, androgen deprivation therapy; AR, androgen receptor; ARPI, androgen receptor pathway inhibitor; DOC, docetaxel; EAU, European Association of Urology; mHSPC, metastatic hormone-sensitive prostate cancer; NSAA, non-steroidal anti-androgen; OS, overall survival.

^{*}Study time frame from after January 2023;5 †These data include darolutamide, which is not yet approved as doublet therapy.5

^{1.} Fizazi K, et al. N Engl J Med 2017;377:352-360; 2. James ND, et al. N Engl J Med 2017;377:338-351;

^{3.} EAU. EAU-EANM-ESTRO-ESUR-ISUP-SIOG guidelines on prostate cancer. Available at: uroweb.org/guideline/prostate-cancer/. Last accessed: March 2025;

^{4.} Goebell PJ, et al. Future Oncol 2024; doi:10.2217/fon-2023-0814 [Epub ahead of print]. 5. Inderjeeth AJ, et al. Presented at ANZUP ASM 2024, 21–23 July 2024, Gold Coast, Australia. Poster abs22. MAT-NL-XTD-2025-00031 | July 2025

Data show an OS benefit with ARPIs vs. PBO + ADT in patients with mHSPC regardless of disease volume or timing of metastases

| Trial | Arms | High-volume disease | Low-volume disease |
|--|-------------------------------|---|---|
| ARCHES ¹ | ENZ + ADT vs. PBO + ADT | HR 0.66 (95 CI: 0.52-0.83) | HR 0.66 (95 CI: 0.43-1.03) |
| ENZAMET*2 (Population without concomitant docetaxel) | ENZ + ADT vs. NSAA + ADT | Synchronous: HR 0.70 (95% CI: 0.47–1.04) | Synchronous: HR 0.58 (95% CI: 0.32–1.04) Metachronous: HR 0.47 (95% CI: 0.28–0.79) |
| TITAN ³ | APA + ADT vs. PBO + ADT | Synchronous: HR 0.68 (95% CI: 0.53–0.87) Metachronous: HR 0.69 (95% CI: 0.33–1.44) | Synchronous: HR 0.65 (95% CI: 0.40–1.05) Metachronous: HR 0.22 (95% CI; 0.09–0.55) |
| STAMPEDE4 | AAP + ADT vs. ADT monotherapy | HR 0.60 (95% CI: 0.46–0.78) | HR 0.64 (95% CI: 0.42–0.97) |
| LATITUDE ⁵ | AAP + ADT vs. PBO + ADT | HR 0.62 (95% CI: 0.52–0.74) | HR 0.72 (95% CI: 0.47–1.10) |

Data shown are for illustrative purposes only, and direct comparisons should not be drawn. *Concomitant use of enzalutamide and docetaxel is not authorised in Europe. The overall patient population in ENZAMET included those who received or did not receive concomitant docetaxel, and the efficacy and safety of enzalutamide in combination with docetaxel is not established. ENZAMET was neither designed nor powered to analyse the results of OS in individual subgroups. Therefore, an improvement in OS cannot be established in any subgroup, including patients with mHSPC taking enzalutamide + LHRH therapy alone or with or without concomitant docetaxel.

AAP, abiraterone acetate plus prednisone; ADT, androgen deprivation therapy; APA, apalutamide; ARPI, androgen receptor pathway inhibitor; CI, confidence interval; ENZ, enzalutamide; HR, hazard ratio;

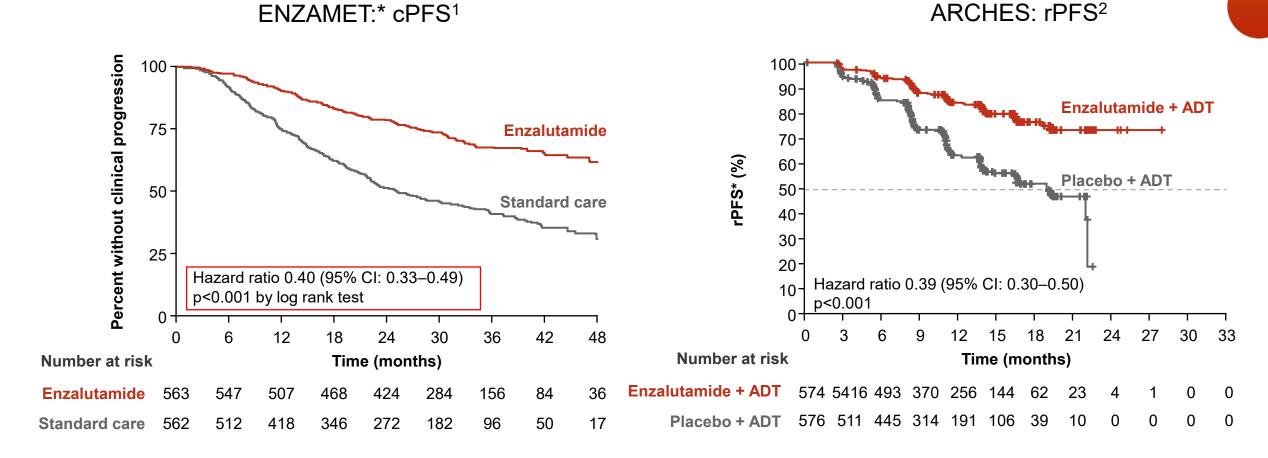
LHRH, luteinizing hormone-releasing hormone; mHSPC, metastatic hormone-sensitive prostate cancer; NSAA, non-steroidal anti-androgen; OS, overall survival; PBO, placebo.

^{1.} Armstrong AJ, et al. *J Clin Oncol* 2022;40:1616–1622; 2. Sweeney CS, et al. *Lancet Oncol* 2023;24:323–334 (supplementary); 3. Merseburger AS, et al. *Eur J Cancer* 2023;193:113290; 4. Hoyle AP, et al. *Eur Urol* 2019;76:719–728; 5. Fizazi K, et al. *Lancet Oncol* 2019;20:686–700.





New learnings from ASCO 2025



Figures adapted from David ID, et al. 2019 and Armstrong AJ, et al. 2019.

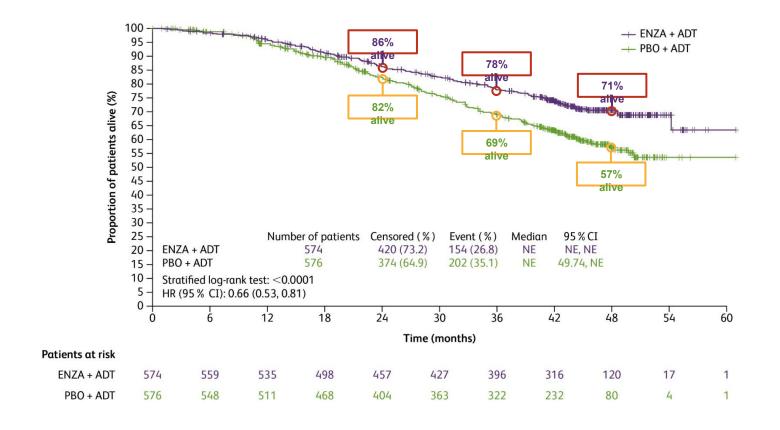
ADT, androgen deprivation therapy; CI, confidence interval; cPFS, clinical progression-free survival; HR, hazard ratio; NR, not reached; rPFS, radiographic progression-free survival. 1. Davis ID, et al. N Engl J Med 2019;381:121–131; 2. Armstrong AJ, et al. J Clin Oncol 2019;37:2974–2986.

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^{*}Concomitant use of enzalutamide and docetaxel is not authorised in Europe. The overall patient population in ENZAMET included those who received or did not receive concomitant docetaxel, and the efficacy and safety of enzalutamide in combination with docetaxel is not established. ENZAMET was neither designed nor powered to analyse the results of OS in individual subgroups. Therefore, an improvement in OS cannot be established in any subgroup, including patients with mHSPC taking enzalutamide + LHRH therapy alone or with or without concomitant docetaxel.

ARCHES: Overall survival (ITT)





- As of May 28, 2021: 356 deaths (enzalutamide plus ADT, 154; placebo plus ADT, 202) were observed
- Median follow-up time: 44.6 months
- Median treatment duration:
 - Enzalutamide plus ADT: 40.2 months
 - Placebo plus ADT: 13.8 months
 - Placebo plus ADT crossover: 23.9 months

Enzalutamide plus ADT significantly improved overall survival by 34% vs. placebo plus ADT



ARCHES 5-year follow-up overall survival (OS) analysis of enzalutamide (ENZA) plus androgen-deprivation therapy (ADT) in patients (pts) with metastatic hormonesensitive prostate cancer (mHSPC)

Andrew J. Armstrong, MD, ScM, FACP¹, Daniel P. Petrylak, MD², Neal D. Shore, MD, FACS³, Russell Z. Szmulewitz, MD⁴, Jeffrey Holzbeierlein, MD⁵, Arnauld Villers, MD, PhD⁶, Antonio Alcaraz, MD, PhD⁷, Boris Alekseev, MD⁸, Taro Iguchi, MD, PhD⁹, Francisco Gomez-Veiga, MD, PhD¹⁰, Ruslan Croitoru, MD¹¹, Ruishan Wu, MS¹¹, Matko Kalac, MD, PhD¹², Yiyun Tang, PhD¹², Arnulf Stenzl, MD¹³, Arun A. Azad, MBBS, PhD, FRACP¹⁴

¹Duke Cancer Institute Center for Prostate and Urologic Cancers, Duke University, Durham, NC, USA; ²Yale School of Medicine, New Haven, CT, USA; ³Atlantic Urology Clinics, Myrtle Beach, SC, USA; ⁴Department of Medicine, University of Chicago, Chicago, IL, USA; ⁵University of Kansas Medical Center, Kansas City, KS, USA; ⁶Department of Urology, University of Lille, Lille, France; ¬Department of Urology, Hospital Clínic de Barcelona, Barcelona, Spain; ⁶P. Hertsen Moscow Oncology Research Institute, Moscow, Russia; ⁶Kanazawa Medical University, Ishikawa, Japan; ¹¹Complexo Hospitalario Universitario de A Coruña, Coruña, Spain; ¹¹Astellas Pharma Inc., Northbrook, IL, USA; ¹²Pfizer Inc., South San Francisco, CA, USA; ¹³Department of Urology, University of Tübingen, Tübingen, Germany; ¹⁴Peter MacCallum Cancer Centre, Melbourne, Victoria, Australia

Background

- The primary analysis of ARCHES (NCT02677896), conducted in October 2018, showed that ENZA + ADT significantly reduced the risk of rPFS or death in patients with mHSPC by 61% (median not reached vs 19.0 months; HR 0.39; 95% CI: 0.30–0.50; P<0.001) after a median follow-up of 14.4 months
- After a median follow-up of 44.6 months (May 2021), ENZA + ADT significantly reduced the risk of death by 34% compared with PBO + ADT (medians not reached in either group; HR 0.66; 95% CI: 0.53–0.81; P<0.0001)

The objective of this *post hoc* analysis was to describe the 5-year survival outcomes and safety of ENZA + ADT vs PBO + ADT for all randomised patients (data cutoff: July 31, 2024)

Methods: Study design

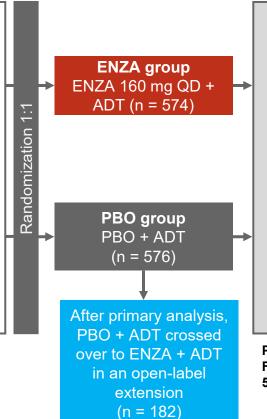
An international, phase 3, randomized, double-blind, PBO-controlled trial

mHSPC patient population:

- N = 1.150
- mHSPC confirmed by bone, CT, or MRI scan; histologically confirmed adenocarcinoma
- ECOG PS 0–1
- Current ADT duration ≤3 months in the metastatic setting, unless prior DOC was received, then ≤6 months

Stratification factors:

- Disease volume (low vs high)
- Prior DOC use for mHSPC (none, 1–5 cycles, or 6 cycles)



 rPFS **Key secondary** Treatment endpoints1: continued until

clinical

progression,

prohibitive

toxicity, or

initiation of

alternative

investigational

therapy for PC

• OS

- PSA PFS
- Time to initiation of new antineoplastic therapy

Primary endpoint¹:

- Undetectable PSA rate
- Objective response rate
- Time to deterioration in urinary symptoms

5-year follow-up analysis:

- Effect of ENZA compared with PBO was based on stratified log-rank test. HR was estimated from stratified Cox regression model. Kaplan-Meier methods were used to summarize OS endpoint by treatment group
- Cox regression model stratified by prior DOC use and disease volume with 95% CI was estimated using the Brookmeyer-Crowley method
- RPSFT model was used to estimate the adjusted HR to assess the impact of treatment crossover

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Primary rPFS analysis: October 2018 (84 deaths/progressions). Median follow-up: 14.4 months¹ Final prespecified OS analysis: May 2021 (356 deaths). Median follow-up: 44.6 months² 5-year follow-up analysis: July 31, 2024 (414 deaths). Median follow-up: 61.4 months

Figure adapted from Armstrong AJ, et al. 2025.

ADT, androgen-deprivation therapy; CI, confidence interval; CT, computer tomography; DOC, docetaxel; ENZA, enzalutamide; ECOG PS, Eastern Cooperative Oncology Group Performance Status; HR, hazard ratio; mHSPC, metastatic hormone-sensitive prostate cancer; MRI, magnetic resonance imaging; N, total population; n, sample size; OS, overall survival; PBO, placebo; PC, prostate cancer; PFS, progression-free survival; PSA, prostate-specific antigen; QD, once daily; rPFS, radiographic progression-free survival; RPSFT, rank-preserving structural failure time; vs, versus Armstrong AJ, et al. Presented at ASCO 2025, 30 May-03 June 2025, Chicago, IL, US:abstract 5005.

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Results: baseline characteristics (ITT)

Data cutoff: July 31, 2024

| Characteristic, n (%) unless stated otherwise | ENZA + ADT (n = 574) | PBO + ADT (n = 576) | PBO crossover (n = 184)* |
|---|----------------------------|------------------------|--------------------------------|
| Age, years, median (range) | 70.0 (46–92) | 70.0 (42–92) | 69.0 (51–89) |
| Age <65 years | 148 (25.8) | 152 (26.4) | 39 (21.2) |
| 65–74 years | 256 (44.6) | 255 (44.3) | 96 (52.2) |
| ≥75 years | 170 (29.6) | 169 (29.3) | 49 (26.6) |
| Race [†] | | | |
| White | 466 (81.2) | 460 (79.9) | 140 (76.1) |
| Asian | 75 (13.1) | 80 (13.9) | 38 (20.7) |
| Black | 8 (1.4) | 8 (1.4) | 4 (2.2) |
| Region | | | |
| Europe | 341 (59.4) | 344 (59.7) | 102 (55.4) |
| Asia Pacific | 104 (18.1) | 113 (19.6) | 49 (26.6) |
| North America | 86 (15.0) | 77 (13.4) | 18 (9.8) |
| South America | 32 (5.6) | 30 (5.2) | 11 (6.0) |

| Characteristic, n (%) unless stated otherwise | ENZA + ADT (n = 574) | PBO + ADT (n = 576) | PBO crossover (n = 184)* | |
|--|-------------------------|------------------------|--------------------------------|--|
| ECOG PS 0 | 448 (78.0) | 443 (76.9) | 155 (84.2) | |
| Gleason score ≥8 at diagnosis | 386 (67.2) | 373 (64.8) | 108 (58.7) | |
| Median PSA (range), ng/mL [‡] | 5.3 (0-4,823.5) | 5.1 (0–19,000.0) | 3.6 (0–3,192.0) | |
| Sites of metastases | | | | |
| Bone only | 268 (46.7) | 245 (42.5) | 80 (43.5) | |
| Soft tissue only | 51 (8.9) | 45 (7.8) | 18 (9.8) | |
| Bone and soft tissue | 217 (37.8) | 241 (41.8) | 59 (32.1) | |
| Visceral ± bone or lymph node | 88 (15.3) | 101 (17.5) | 34 (18.5) | |
| Synchronous (de novo) | 438 (76.3) | 439 (76.2) | 138 (75.0) | |
| High-volume disease | 354 (61.7) | 373 (64.8) | 92 (50.0) | |
| Prior docetaxel use | 103 (17.9) | 102 (17.7) | 29 (15.7) | |

Tables adapted from Armstrong AJ, et al. 2025.

^{*182} patients received ENZA + ADT in the OLE.

[†]By country regulations, data regarding patient race are not collected in France.

[‡]Patients who had baseline PSA results at data cutoff (ENZA + ADT, n = 573; PBO + ADT, n = 575; PBO crossover, n = 184).

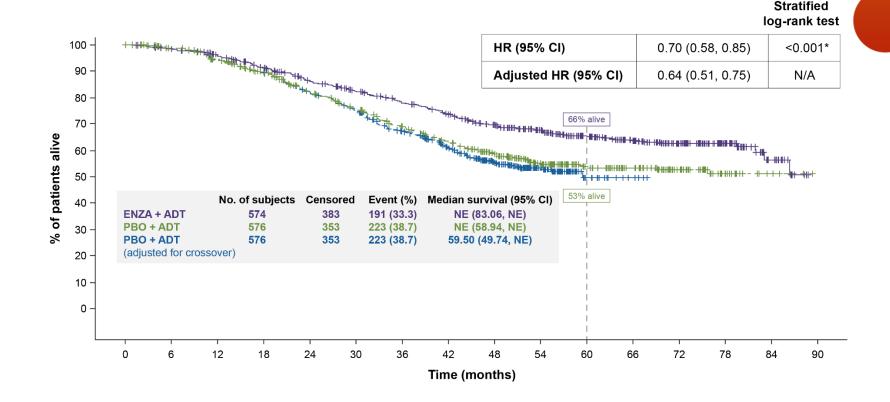
ADT, androgen-deprivation therapy; ECOG PS, Eastern Cooperative Oncology Group Performance Status; ENZA, enzalutamide; IQR, interquartile range; ITT, intent-to-treat; n, sample size; OLE, open-label extension; PBO, placebo; PSA, prostate-specific antigen.

Armstrong AJ, et al. Presented at ASCO 2025, 30 May-03 June 2025, Chicago, IL, US:abstract 5005.

Results: 5-year overall survival (ITT)

Data cutoff: July 31, 2024

- Median follow-up (range):
 61.4 months (0.03–89.33)
- Only 11 patients were lost to follow-up, with no clear evidence of informative censoring
- Significantly prolonged OS in patients treated with ENZA + ADT vs PBO + ADT (HR 0.70; 95% CI: 0.58–0.85; P<0.001)
- Sensitivity analysis using RPSFT method showed a similar treatment effect (HR 0.64; 95% CI: 0.51–0.75)



Initial treatment with ENZA + ADT showed a sustained long-term survival benefit compared with PBO + ADT in patients with mHSPC, despite a substantial crossover after study-wide unblinding (n = 182, 32%; crossover start: Month 18)

Figure adapted from Armstrong AJ, et al. 2025.

ADT, androgen-deprivation therapy; CI, confidence interval; E/CE, events/cumulative events; ENZA, enzalutamide; HR, hazard ratio; ITT, intent-to-treat; mHSPC, metastatic hormone-sensitive prostate cancer; n, sample size; N/A, not applicable; NE, not estimable; No., number; OS, overall survival; PBO, placebo; RPSFT, rank-preserving structural failure time; vs, versus.

Armstrong AJ, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, US:abstract 5005.

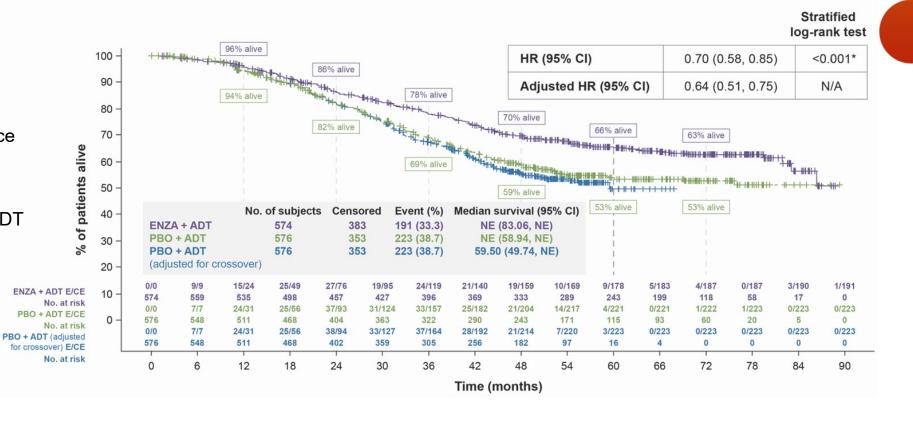
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^{*}P value is nominal.

Results: 5-year overall survival (ITT)

Data cutoff: July 31, 2024

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 61.4 months (0.03–89.33)
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Figure adapted from Armstrong AJ, et al. 2025.

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ADT, androgen-deprivation therapy; CI, confidence interval; E/CE, events/cumulative events; ENZA, enzalutamide; HR, hazard ratio; ITT, intent-to-treat; mHSPC, metastatic hormone-sensitive prostate cancer; n, sample size; N/A, not applicable; NE, not estimable; No., number; OS, overall survival; PBO, placebo; RPSFT, rank-preserving structural failure time; vs, versus.

Armstrong AJ, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, US:abstract 5005.

^{*}P value is nominal.

Results: ENZA extended estimated median OS in patients with high-volume disease vs PBO by 3 years

Data cutoff: July 31, 2024

High-volume disease

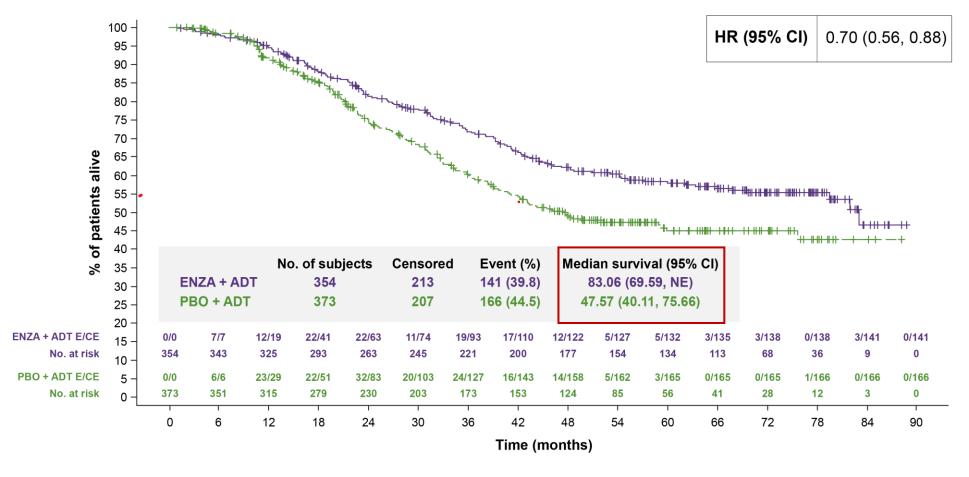


Figure adapted from Armstrong AJ, et al. 2025.

ADT, androgen-deprivation therapy; CI, confidence interval; E/CE, events/cumulative events; ENZA, enzalutamide; HR, hazard ratio; NE, not estimable; No., number; OS, overall survival; PBO, placebo; vs, versus. Armstrong AJ, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, US:abstract 5005.

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Results: similar relative improvement in OS in patients with low-volume disease

Data cutoff: July 31, 2024

Low-volume disease

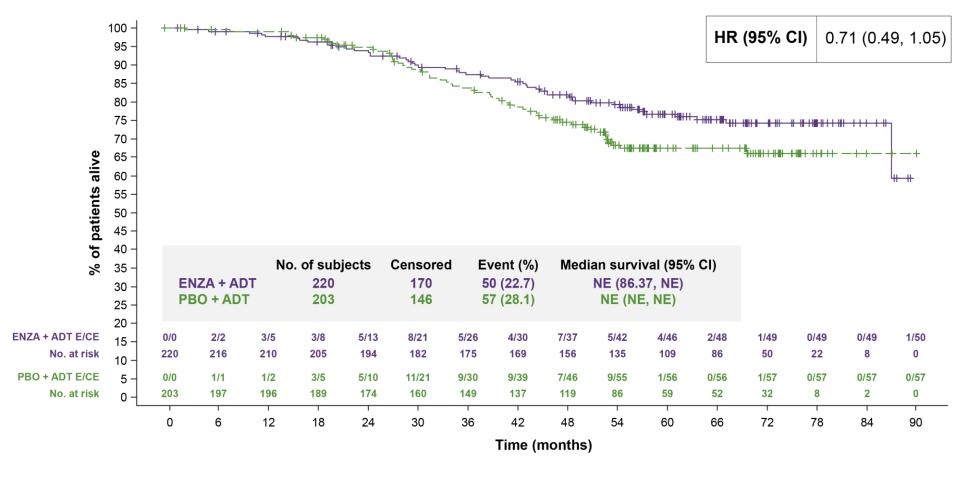


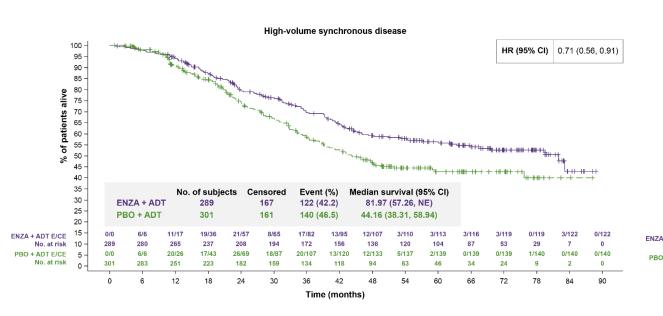
Figure adapted from Armstrong AJ, et al. 2025.

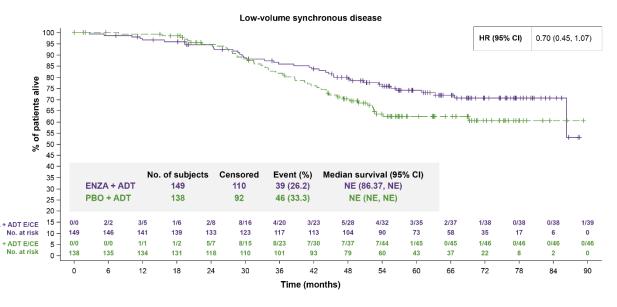
ADT, androgen-deprivation therapy; CI, confidence interval; E/CE, events/cumulative events; ENZA, enzalutamide; HR, hazard ratio; NE, not estimable; No., number; OS, overall survival; PBO, placebo; vs, versus. Armstrong AJ, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, US:abstract 5005.

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Results: OS in high- and low-volume synchronous disease Data cutoff: July 31, 2024



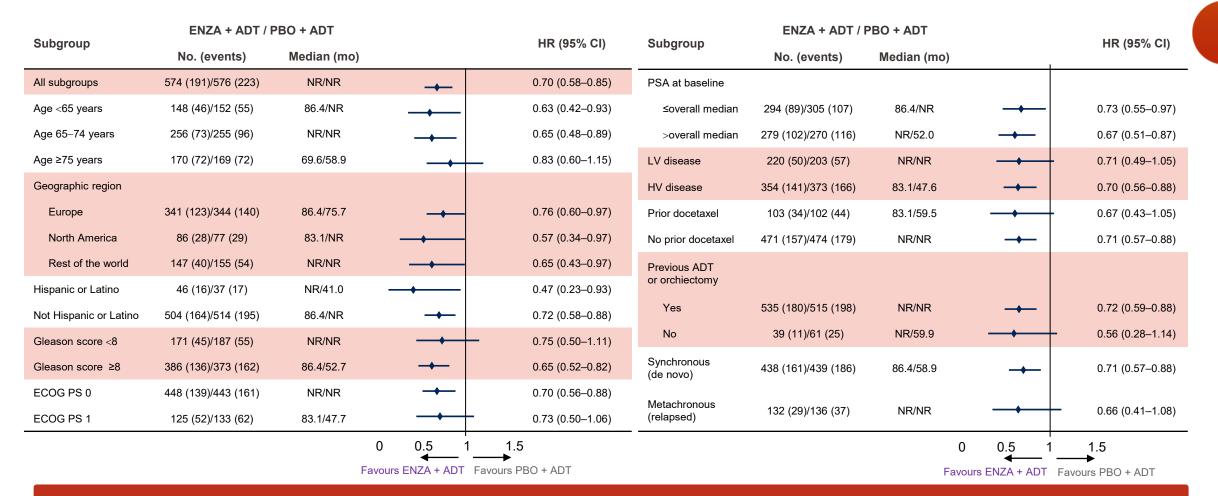




- Treatment with ENZA + ADT resulted in meaningfully prolonged median survival (82 months) vs PBO + ADT (44 months) in patients with high-volume synchronous disease
- In patients with low-volume synchronous disease, OS was longer with ENZA + ADT than with PBO + ADT but CI included 1.0

Results: overall survival by prespecified subgroups

Data cutoff: July 31, 2024



OS treatment benefit with ENZA + ADT was consistent across most prespecified subgroups

Tables adapted from Armstrong AJ, et al. 2025.

ADT, androgen-deprivation therapy; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group Performance Status; ENZA, enzalutamide; HR, hazard ratio; HV, high-volume; LV, low-volume; mo, months; No., number; NR, not reached; OS, overall survival; PBO, placebo; PSA, prostate-specific antigen.

Armstrong AJ, et al. Presented at ASCO 2025, 30 May-03 June 2025, Chicago, IL, US:abstract 5005.

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Results: Overview of safety (safety population)

Data cutoff: July 31, 2024

| Patient incidence, n (%) unless otherwise stated | ENZA + ADT (n = 572) | PBO + ADT (n = 574) | PBO crossover (n = 182) |
|--|-------------------------|------------------------|----------------------------|
| Median treatment duration, months (range) | 41.7 (0.2–88.7) | 13.8 (0.2–27.6) | 44.2 (0.2–62.2) |
| Total exposure, patient-years | 2,070.0 | 731.9 | 579.0 |
| TEAE* | 531 (92.8) | 505 (88.0) | 167 (91.8) |
| Grade 3–4 TEAE | 263 (46.0) | 163 (28.4) | 90 (49.5) |
| Grade 5 TEAE (death) | 190 (33.2) | 197 (34.3) | 27 (14.8) |
| Study drug-related TEAE | 347 (60.7) | 273 (47.6) | 99 (54.4) |
| Study drug-related TEAE leading to death | 0 | 1 (0.2) | 1 (0.5) |
| TEAE of special interest | 434 (75.9) | 328 (57.1) | 127 (69.8) |

- Incidence of all TEAEs was similar between all treatment groups
- Incidence of Grade 3–4, study drug-related, and TEAEs of special interest were higher in ENZA + ADT group vs PBO + ADT group
- None of the 48 TEAEs leading to death in the ENZA + ADT group were considered related to the study treatment by the investigator,
- whereas one TEAE leading to death in both the PBO + ADT and PBO crossover groups (deterioration in general physical health) was considered related to the study treatment by the investigator
- No new safety signals were identified

Table adapted from Armstrong AJ, et al. 2025.

ADT, androgen-deprivation therapy; ENZA, enzalutamide; n, sample size; NCI-CTCAE, National Cancer Institute—Common Terminology Criteria for Adverse Events; PBO, placebo; TEAE, treatment-emergent adverse event; vs, versus. Armstrong AJ, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, US:abstract 5005.

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^{*}TEAE is defined as an adverse event that occurs or worsens at any time from the first study drug intake up to the date of end of treatment + 30 days, study discontinuation, or the start of new antineoplastic therapy, whichever occurs first. Adverse event grading is based on NCI-CTCAE (version 4.03).

Results: TEAEs of special interest* (safety population)

Data cutoff: July 31, 2024

| Patient incidence, n (rate per 100 pt-years) | ENZA + ADT (n = 572) | PBO + ADT (n = 574) | PBO crossover (n = 182) |
|--|-------------------------|------------------------|----------------------------|
| Convulsions | 3 (0.1) | 3 (0.4) | 1 (0.2) |
| Hypertension | 106 (5.1) | 41 (5.6) | 20 (3.5) |
| Decreased neutrophil count | 10 (0.5) | 6 (0.8) | 3 (0.5) |
| Cognitive/memory impairment | 50 (2.4) | 15 (2.0) | 17 (2.9) |
| Ischemic heart disease | 45 (2.2) | 14 (1.9) | 11 (1.9) |
| Other selected cardiovascular events | 50 (2.4) | 11 (1.5) | 12 (2.1) |
| Posterior reversible encephalopathy syndrome | 0 | 0 | 0 |
| Fatigue | 232 (11.2) | 127 (17.4) | 52 (9.0) |
| Renal disorder | 37 (1.8) | 10 (1.4) | 2 (0.3) |

| Patient incidence, n (rate per 100 pt-years) | ENZA + ADT (n = 572) | PBO + ADT (n = 574) | PBO crossover (n = 182) |
|--|-------------------------|------------------------|----------------------------|
| Second primary malignancies | 35 (1.7) | 16 (2.2) | 9 (1.6) |
| Falls | 108 (5.2) | 20 (2.7) | 30 (5.2) |
| Fractures | 147 (7.1) | 36 (4.9) | 45 (7.8) |
| Loss of consciousness | 18 (0.9) | 2 (0.3) | 4 (0.7) |
| Thrombocytopenia | 7 (0.3) | 3 (0.4) | 0 |
| Musculoskeletal events | 461 (22.3) | 255 (34.8) | 81 (14.0) |
| Severe cutaneous adverse reactions | 1 (0.0) | 1 (0.1) | 0 |
| Angioedema | 13 (0.6) | 1 (0.1) | 1 (0.2) |
| Rash | 27 (1.3) | 12 (1.6) | 9 (1.6) |
| Hepatic disorder | 49 (2.4) | 55 (7.5) | 17 (2.9) |

- The incidence of TEAEs of special interest was consistent with prior ARCHES analyses
- No new safety signals were identified

Tables adapted from Armstrong AJ, et al. 2025.

Armstrong AJ, et al. Presented at ASCO 2025, 30 May-03 June 2025, Chicago, IL, US:abstract 5005. MAT-NL-XTD-2025-00031 | July 2025

^{*}TEAEs of special interest were based on prespecified combinations of preferred terms (MedDRA version 23.0) and were graded on the basis of NCI-CTCAE (version 4.03) by the investigator.

ADT, androgen-deprivation therapy; ENZA, enzalutamide; MedDRA, Medical Dictionary for Regulatory Activities; n, sample size; NCI-CTCAE, National Cancer Institute—Common Terminology Criteria for Adverse Events; PBO, placebo; TEAE, treatment-emergent adverse event.

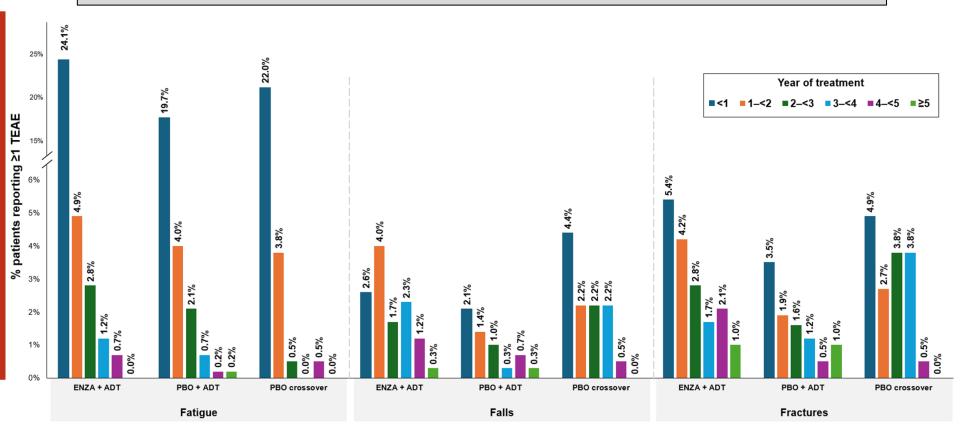
Results: ENZA-associated TEAEs tended to diminish substantially over time

Data cutoff: July 31, 2024

First onset of fatigue was slightly more common in ENZA + ADT and PBO crossover vs PBO + ADT group during the first year and decreased thereafter

- A lower incidence in fatigue, falls, and fractures was generally observed in the PBO + ADT group vs the ENZA + ADT and PBO crossover groups
- Mostly reported in the first couple of years

Summary of patients reporting ≥1 TEAE by year



Key takeaway points/conclusions

This 5-year median follow-up from the ARCHES study showed that ENZA + ADT was associated with a **66% probability of survival at 5 years** and **a significant reduction in the risk of death by 30%** in patients with mHSPC compared with PBO + ADT, despite substantial crossover

- Patients on ENZA + ADT with high-volume disease had a significantly longer median OS by 3 years vs those on PBO + ADT
- Absolute 5-year survival rate improved by 13% in high-volume disease and 9% in low-volume disease
- These data represent one of the longest OS follow-up analyses conducted to date in the mHSPC setting, and provide compelling long-term OS data in this context, particularly for patients with high-volume disease
- ENZA + ADT provided substantial and durable survival benefits across a wide range of patient characteristics, with no evidence of heterogeneity by disease volume, prior docetaxel use, or synchronous vs metachronous metastatic disease
- This improvement in long-term survival was accompanied by an increase in ENZA-associated TEAEs, which tended to diminish substantially over time

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Impactful data in mHSPC over the last year: HRR mutations and the AMPLITUDE study

Professor Ugo de Giorgi

IRCCS Istituto Romagnolo per lo Studio dei Tumori (IRST) Dino Amadori, Meldola, Italy



Ugo De Giorgi - Disclosures

- Consultant/advisory board member for Astellas, AstraZeneca, Bayer, Bristol Myers Squibb,
 Ipsen, Janssen, Merck, MSD, Novartis, PharmaMar, Pfizer, and Roche
- Travel support from AstraZeneca, Bristol Myers Squibb, Ipsen, Janssen and Pfizer
- Research funding from AstraZeneca, Roche and Sanofi (paid to institution)
- The presenter has received an honorarium for this presentation

MAT-NL-XTD-2025-00031 | July 2025

Impact of somatic/germline homologous recombination repair (HRR) alterations on metastatic hormone-sensitive prostate cancer (mHSPC)



- Alterations in BRCA1/2 (BRCA) and other HRR genes have previously been shown to exert a negative impact on outcomes in patients with metastatic castration-resistant prostate cancer (mCRPC)¹
- Poly(adenosine diphosphate-ribose) polymerase inhibitors (PARPis), the only treatment demonstrated to improve the prognosis of these patients with mCRPC,²⁻⁵ are also being developed for the treatment of patients with mHSPC
- Somatic and germline alterations in HRR genes (including BRCA) in patients with mHSPC, and their impact on disease-onset characteristics and clinical outcomes, specifically exploring the associations between these mutations and tumour burden, have been recently presented at ASCO 2025 and published on Ann Oncol⁶ Adv online June 2, 2025:





ORIGINAL ARTICLE

BRCA1/2 and homologous recombination repair alterations in high- and low-volume metastatic hormone-sensitive prostate cancer: prevalence and impact on outcomes

D. Olmos^{1,2*}, D. Lorente³, A. Jambrina⁴, D. Tello-Velasco¹, M. Ovejero-Sánchez⁴, I. Gonzalez-Ginel^{1,5}, N. Romero-Laorden^{6,7}, D. Nunes-Carneiro⁸, M. Balongo^{4,9}, A. M. Gutierrez-Pecharromán^{9,10,11}, C. Llácer⁹, J. D. Prieto¹², D. Pérez-Argüelles^{13,14}, F. Alberca del Arco^{9,15}, J. Miguel-Masiá¹⁶, M. Ruiz-Vico^{2,4}, R. Santos^{9,15}, J. Esteban-Villarrubia^{1,2}, E. Gonzalez-Billalabeitia^{2,17}, A. Jürgens¹⁸, C. Capone¹⁹, M. Trevisan²⁰, S. Van Sanden²¹, G. Stulnig²², D. Hernández¹⁴, P. P. López-Casas¹, A. Rodriguez-Antolin^{5,17}, D. E. Castellano^{2,17}, B. Herrera-Imbroda^{9,15} & E. Castro^{2,4*}

The prevalence of somatic and germline alterations in HRR genes (including BRCA) in patients with mHSPC

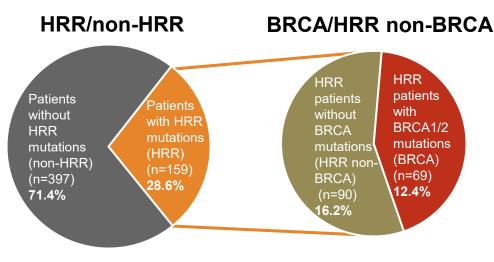


Distribution of subgroups according to mutation type (A) and frequency of HRR alterations by germline versus somatic in the subgroups of patients with high- and low-volume (B)

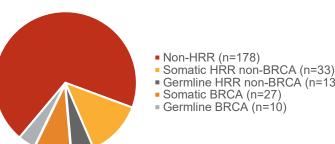
(A)

- Of 556 patients, 159 (28.6%) had HRR gene alterations: 69 (12.4%) with BRCA and 90 (16.2%) with HRR non-BRCA mutations
- mHSPC was classified by conventional imaging as high volume in 306 (55.0%) and low volume in 250 (45.0%) patients per CHAARTED criteria
- mHSPC was synchronous in 451 patients (81.1%) and metachronous in 105 patients (18.9%)









High volume Low volume

■ Non-HRR (n=220)

Figure adapted from Olmos D, et al. 2025 HRR, homologous recombination repair; mHSPC, metastatic hormone-sensitive prostate cancer. Olmos D, et al. Poster presented at ASCO 2025, 30 May-03 June 2025, Chicago, IL, USA: Abstract 5094. MAT-NL-XTD-2025-00031 | July 2025

[■] Germline HRR non-BRCA (n=13) Somatic BRCA (n=27)

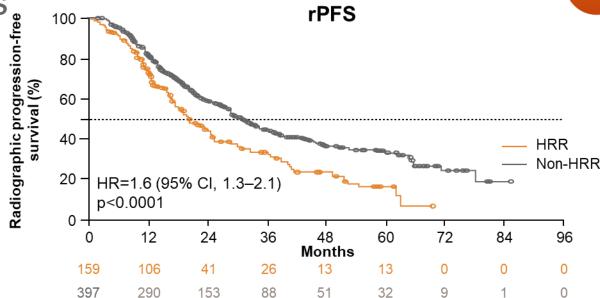
Somatic BRCA (n=27)

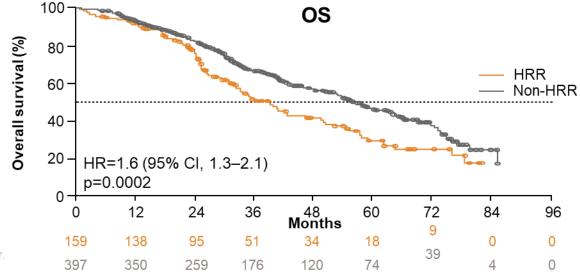
Germline BRCA (n=15)

mHSPC with homologous recombination repair (HRR) gene

alterations has a poor prognosis

- The most common treatment regimen was ADT + ARPI (44.8%), while 30.4% received docetaxel + ADT, and 11.3% were treated with triplet therapy. Only 13.5% received ADT alone
- Baseline patient characteristics and treatments administered were similar across all subgroups after adjustment



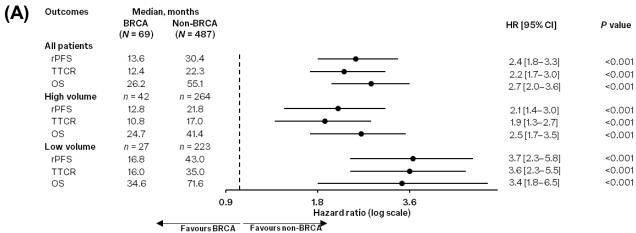


Impact of somatic/germline homologous recombination repair (HRR) alterations on mHSPC outcomes by disease volume

Treatment outcomes by high-volume and low-volume disease: BRCA versus non-BRCA (A) and HRR versus non-HRR (B)

Comparison of outcomes between mutational subgroups by tumour burden

- The presence of BRCA and HRR alterations was associated with poor prognosis in both low- and high-volume subgroups
- This adverse impact was stronger in the low-volume population



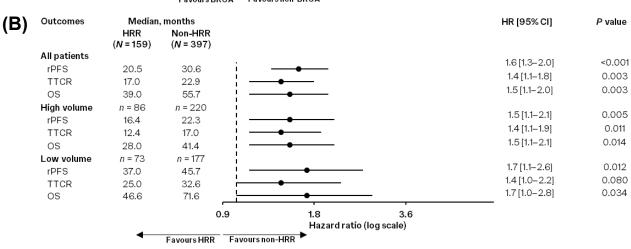


Figure adapted from Olmos D, et al. 2025.

Phase 3 AMPLITUDE trial:

Niraparib and abiraterone acetate plus prednisone for metastatic hormone-sensitive prostate cancer patients with alterations in homologous recombination repair genes

Gerhardt Attard,¹ Neeraj Agarwal,² Julie N Graff,^{3,4} Shahneen Sandhu,⁵ Eleni Efstathiou,⁶ Mustafa Özgüroğlu,⁷ Andrea J Pereira de Santana Gomes,⁸ Karina Vianna,⁹ Hong Luo,¹⁰ Heather H Cheng,^{11,12} Won Kim,¹³

Carly R Varela,¹⁴ Daneen Schaeffer,¹⁴ Shiva Dibaj,¹⁵ Susan Li,¹⁴ Fei Shen,¹⁴ Suneel D Mundle,¹⁶

David Olmos,¹⁷ Kim N Chi,¹⁸ Dana E Rathkopf,¹⁹ on behalf of the AMPLITUDE investigators

¹Cancer Institute, University College London, London, UK; ²Huntsman Cancer Institute, University of Utah, Salt Lake City, UT, USA;

³Oregon Health & Science University and Knight Cancer Institute, Portland, OR, USA; ⁴Veterans Affairs Portland Health Care System, Portland, OR, USA;

⁵Peter MacCallum Cancer Centre, Melbourne, Australia; ⁶Houston Methodist Cancer Center, Houston, TX, USA;

⁷Istanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, Istanbul, Türkiye; ⁸Liga Norte Riograndense Contra o Cancer, Natal, Brazil;

⁹Centro Integrado de Oncologia de Curitiba, Curitiba, Brazil; ¹⁰Chongqing University Cancer Hospital, Chongqing, China;

¹¹University of Washington, Seattle, WA, USA; ¹²Fred Hutchinson Cancer Center, Seattle, WA, USA; ¹³Johnson & Johnson, Los Angeles, CA, USA;

¹⁴Johnson & Johnson, Spring House, PA, USA; ¹⁵Johnson & Johnson, San Diego, CA, USA; ¹⁶Johnson & Johnson, Raritan, NJ, USA;

¹⁷I+12 Biomedical Research Institute, Hospital Universitario 12 de Octubre, Madrid, Spain;

¹⁸BC Cancer – Vancouver Center, University of British Columbia, Vancouver, BC, Canada;

¹⁹Memorial Sloan Kettering Cancer Center and Weill Cornell Medicine, New York, NY, USA.

AMPLITUDE: Randomised, double-blind, placebo-controlled trial in HRRm mHSPC

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

Key inclusion criteria:

- mHSPC*
- Alteration in ≥1 HRR eligible gene:[†] BRCA1, BRCA2, BRIP1, CDK12, CHEK2, FANCA, PALB2, RAD51B, RAD54Lb
- Eastern Cooperative Oncology Group performance status (ECOG PS) 0-2

Key exclusion criteria:

- Any prior
 - PARP inhibitor (PARPi)
 - ARPI other than AAP

Prior allowed treatments in mHSPC:

- ADT ≤6 months
- Docetaxel ≤6 cycles[‡]
- AAP ≤45 days
- Palliative radiotherapy

Clinical data cutoff: 7 January 2025.

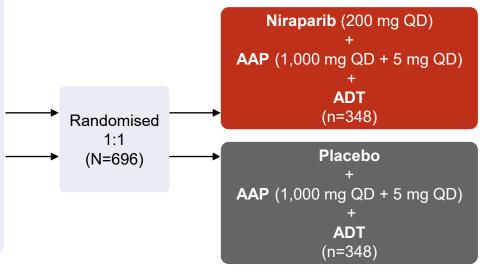
Figure adapted from Attard G, et al. 2025.

Niraparib is not licenced for the treatment of mHSPC; this is an investigational combination.

*Patients with lymph node-only disease are not eligible. †HRR gene panel was fixed prior to trial initiation based on MAGNITUDE trial and external data from the published literature. ‡Last dose ≤3 months prior to randomization. AAP, abiraterone acetate plus prednisone; ADT, androgen deprivation therapy; ARPI, androgen receptor pathway inhibitor; BRCA, BReast CAncer gene; ECOG PS, Eastern Cooperative Oncology Group performance status; HRR, homologous recombination repair; PARPi, poly ADP-ribose polymerase inhibitor; mHSPC, metastatic hormone-sensitive prostate cancer; OS, overall survival; rPFS, radiographic progression-free survival; QD, once daily. Attard G, et al. Presented at ASCO 2025, 30 May-03 June 2025, Chicago, IL, USA: Abstract LBA5006. MAT-NL-XTD-2025-00031 | July 2025

Stratification factors:

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



Primary endpoint

rPFS by investigator review

Key secondary endpoints

- Time to symptomatic progression
- OS
- Safety



Baseline characteristics

| | | Niraparib + AAP (n=348) | Placebo + AAP (n=348) |
|---|--|---------------------------------|---------------------------------------|
| Median age (range), years | | 68 (40–88) | 67 (40–92) |
| Median prostate-specific antigen (PSA) at initial diagnosis (rang | e), ng/mL | 112 (0.1–17,475)* | 102 (0.1–15,900)† |
| ECOG PS score, n (%) | 0 ≥1 | 242 (70) 106 (30) | 218 (63) 130 (37) |
| Gleason score at initial diagnosis, n (%) | Gleason score at initial diagnosis, n (%) ≥8 | | 262 (75) |
| Metastatic stage at diagnosis, n (%) | M1 (synchronous) | 301 (86) | 302 (87) |
| Disease volume, n (%) | | 269 (77) | 271 (78) |
| Prior docetaxel use in mHSPC, n (%) | · | 54 (16) | 56 (16) |
| Site of metastases,‡ n (%) | Bone only Visceral Lymph nodes | 146 (42) 57 (16) 173 (50) | 154 (44)** 54 (16)** 161 (46)** |
| BRCA alteration, n (%) | | 191 (55) | 196 (56) |

Characteristics were well balanced between arms

Table adapted from Attard G, et al. 2025.

Niraparib is not licenced for the treatment of mHSPC; this is an investigational combination.

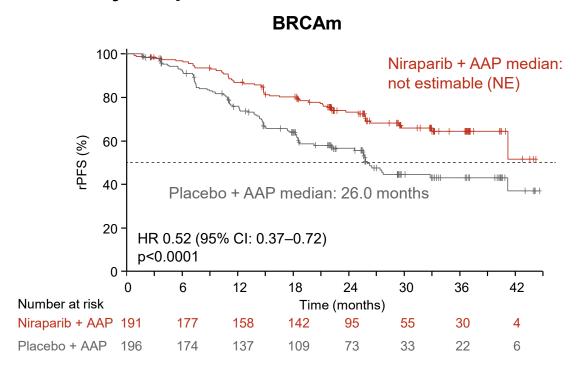
*n=258. † n=275. ‡ Non-mutually exclusive. **n=347.

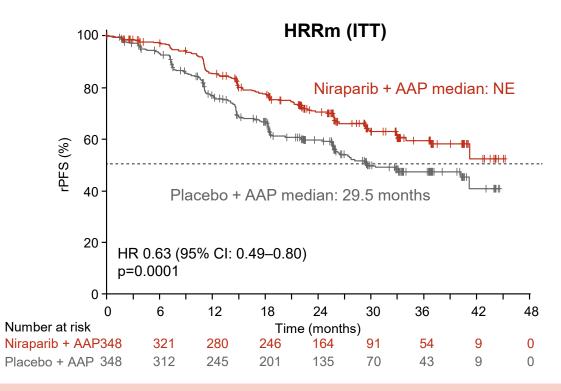
AAP, abiraterone acetate plus prednisone; BRCA, BReast CAncer gene; ECOG PS, Eastern Cooperative Oncology Group performance status; mHSPC, metastatic hormone-sensitive prostate cancer; PSA, prostate-specific antigen. Attard G, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, USA: Abstract LBA5006.

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Primary endpoint: rPFS*





AMPLITUDE met the primary endpoint: Niraparib + AAP significantly reduced the risk of radiographic progression* or death by 48% in BRCAm group and by 37% in HRRm group

Figures adapted from Attard G, et al. 2025.

Niraparib is not licenced for the treatment of mHSPC; this is an investigational combination.

*rPFS by investigator review. The results for rPFS by BICR were similar: HR=0.51 (95% CI: 0.37–0.72) and 0.61 (95% CI: 0.47–0.79) for BRCAm and HRRm groups.

AAP, abiraterone acetate plus prednisone; BICR, blinded independent central review; BRCAm, BReast CAncer gene mutation; CI, confidence interval; HR, hazard ratio; HRRm, homologous recombination repair gene mutation; ITT, intention-to-treat; NE, not estimable; rPFS, radiographic progression-free survival.

Attard G, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, USA: Abstract LBA5006. MAT-NL-XTD-2025-00031 | July 2025



Favours PBO + AAP

| Variable | Subgroup | Median, mo | onths | | HR (95% CI) | Events | s/N |
|----------------------------------|---------------|-----------------|-----------|--------------------|------------------|-----------------|-----------|
| | | Niraparib + AAP | PBO + AAP | | | Niraparib + AAP | PBO + AAP |
| All patients | | NE | 29.5 | -=- ¦ | 0.65 (0.51-0.83) | 113/348 | 151/348 |
| Age | <65 years | 41.2 | 29.3 | - ■- | 0.51 (0.34-0.77) | 35/116 | 62/135 |
| | 65–74 years | NE | NE | † | 0.74 (0.50-1.11) | 45/148 | 52/139 |
| | ≥75 years | NE | 26 | - | 0.74 (0.46-1.19) | 33/84 | 37/74 |
| ECOG at PS baseline | 0 | NE | 40.2 | | 0.60 (0.44-0.82) | 72/242 | 93/218 |
| | ≥1 | 34 | 29.5 | ■ ; | 0.76 (0.51-1.14) | 41/106 | 58/130 |
| Prior docetaxel use | Yes | 41.2 | NE | - | 0.75 (0.40-1.40) | 18/54 | 23/56 |
| | No | NE | 29.5 | - ■- | 0.62 (0.48-0.82) | 95/294 | 128/292 |
| Visceral metastases | Yes | NE | 18.5 | - | 0.57 (0.33-0.99) | 22/57 | 30/54 |
| | No | NE | 33.2 | | 0.67 (0.51-0.87) | 91/291 | 121/294 |
| Bone-only metastases at baseline | Yes | NE | 41.2 | | 0.71 (0.46-1.10) | 36/146 | 48/154 |
| | No | 41.2 | 25.6 | - ■- ¦ | 0.60 (0.47-0.78) | 77/202 | 103/194 |
| Metastases state at diagnosis | MO | NE | NE | | 0.96 (0.29-3.17) | 5/32 | 6/36 |
| | M1 | NE | 27.4 | | 0.60 (0.47-0.78) | 100/301 | 142/302 |
| Disease volume at baseline | High | 41.2 | 26.3 | - ■- ¦ | 0.65 (0.50-0.85) | 100/269 | 130/271 |
| | Low | NE | 40.2 | | 0.55 (0.27-1.10) | 13/79 | 21/77 |
| Regions | Asia | 36.8 | NE | <u></u> † <u>■</u> | 1.11 (0.62–1.97) | 26/72 | 21/63 |
| | Europe | NE | 26.3 | ¦ | 0.56 (0.40-0.78) | 56/168 | 86/177 |
| | North America | NE | 33.2 | † | 0.51 (0.25–1.04) | 14/45 | 18/44 |
| | Rest of World | NE | NE | | 0.65 (0.35–1.20) | 17/63 | 26/64 |

Benefit from niraparib + AAP is generally consistent across prespecified subgroups

Figure adapted from Attard G, et al. 2025.

Niraparib is not licenced for the treatment of mHSPC; this is an investigational combination. Results in small subgroups should be interpreted with caution.

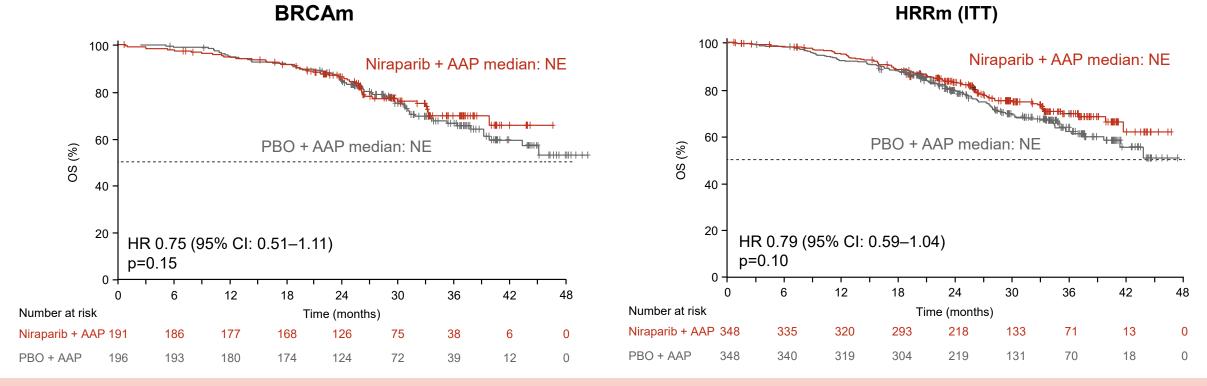
AAP, abiraterone acetate plus prednisone; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; NE, not estimable; PBO, placebo.

Attard G, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, USA: Abstract LBA5006.

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Favours niraparib + AAP ◆ 0.25

Secondary endpoint: Overall survival (first interim analysis)*



The first interim analysis (≈50% of total needed events) estimates show niraparib + AAP reduced risk of death by 25% in BRCAm group and by 21% in HRRm group

Figures adapted from Attard G, et al. 2025.

Niraparib is not licenced for the treatment of mHSPC; this is an investigational combination.

*The first interim analysis for OS was conducted when 193 patients had died (of a target of 389, an information fraction of 50%), 85 of 348 (24%) in the niraparib + AAP arm and 108 of 348 (31%) in the PBO + AAP arm.

AAP, abiraterone acetate plus prednisone; BRCAm, BReast CAncer gene mutation; CI, confidence interval; HR, hazard ratio; HRRm, homologous recombination repair mutation; NE, not estimable; OS, overall survival; PBO, placebo.

Attard G, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, USA: Abstract LBA5006.

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| | Endpoint | Subgroup | HR (95% CI) | | Events/ | N |
|---|-------------|----------|-----------------------|----------------------|-------------------|-----------|
| Subgroup analysis | _ | | | | Niraparib + AAP | PBO + AAP |
| by BRCA and | rPFS | BRCA1/2 | 0.52 (0.37-0.72) | | 57/191 | 93/196 |
| non-BRCA alterations | | CHEK2 | 0.65 (0.38–1.11) | | 24/72 | 32/76 |
| | | CDK12 | 1.01 (0.43-2.39) | | 13/28 | 10/28 |
| | | FANCA | 0.76 (0.20-2.82) | | 4/15 | 5/15 |
| | | PALB2 | 2.41 (0.66–8.74) | <u> </u> | — 6/9 | 4/13 |
| | | Other | 0.72 (0.20–2.66) | | 6/25 | 4/15 |
| | Time to | BRCA1/2 | 0.44 (0.29–0.68) | | 31/191 | 66/196 |
| | symptomatic | CHEK2 | 0.47 (0.21–1.05) | | 9/72 | 18/76 |
| | progression | CDK12 | 0.68 (0.28-1.62) | - = | 9/28 | 12/28 |
| | | FANCA | 0.71 (0.12–4.27) | | 2/15 | 3/15 |
| | | PALB2 | NE (NE-NE) | i | 1/9 | 2/13 |
| | | Other | 1.18 (0.12–11.36) | | — 4/25 | 1/15 |
| Figure adapted from Attard G, et al. 2025. Niraparib is not licenced for the treatment of | OS* | BRCA1/2 | 0.75 (0.51–1.11) | -= † | 44/191 | 61/196 |
| mHSPC; this is an investigational combination. | | CHEK2 | 0.85 (0.45–1.59) | | 18/72 | 21/76 |
| *The first interim analysis for OS was conducted when 193 patients had died (of a target of 389, an information fraction of 50%), 85 of | | CDK12 | 0.57 (0.25–1.31) | | 9/28 | 15/28 |
| 348 (24%) in the niraparib + AAP arm and 108 of 348 (31%) in the PBO + AAP arm. | | FANCA | 0.92 (0.20–4.12) | | 3/15 | 4/15 |
| Non-BRCA subgroups were not statistically powered for formal testing in this exploratory analysis. Hazard ratios were stratified by | | PALB2 | 3.30 (0.52–21.21) | | 3/9 | 2/13 |
| disease volume (high vs. low). Other: RAD54L, BRIP1, RAD51B. | | Other | 0.79 (0.18–3.36) | | 5/25 | 3/15 |
| AAP, abiraterone acetate plus prednisone; BRCA, BReast CAncer | | Favo | urs niraparib + AAP ← | 0.125 0.25 0.5 1 2 4 | 8 16 32 Favours I | PBO + AAP |

gene; CI, confidence interval; HR, hazard ratio; OS, overall survival; PBO, placebo; rPFS, radiographic progression-free survival.. Attard G, et al. Presented at ASCO 2025, 30 May–03 June 2025,

Chicago, IL, USA: Abstract LBA5006.

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^{*}The first interim analysis (≈50% of total needed events) estimates show niraparib + AAP reduced risk of death by 25% in BRCAm group and by 21% in HRRm group

Subsequent therapy for prostate cancer

| Patients, n (%) | Niraparib + AAP (n=347)* | PBO + AAP (n=348) |
|--|-----------------------------|----------------------|
| Discontinued treatment due to progressive disease (denominator for any subsequent therapy) | 93 (27) | 149 (43) |
| Any subsequent therapy (denominator for below) | 72 (77) | 120 (81) |
| Chemotherapy [†] | 60 (83) | 91 (76) |
| ARPI | 19 (26) | 27 (23) |
| PARPi | 8 (11) | 43 (36) |
| Radiopharmaceuticals | 6 (8) | 8 (7) |
| Immunotherapy | 2 (3) | 6 (5) |
| Other [‡] | 6 (8) | 13 (11) |

Table adapted from Attard G, et al. 2025.

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Niraparib is not licenced for the treatment of mHSPC; this is an investigational combination.

*One randomised patient never received the study treatment. †Of patients with any subsequent therapy, 14% in the niraparib + AAP arm and 11% in the PBO + AAP arm also received carboplatin. ‡Capivasertib, ODM 208, AMG 509, vobramitamab duocarmazine, ZEN 3694, cabozantinib, datopotamab deruxtecan, enfortumab vedotin, investigational antineoplastic drugs, NUV 868 or zanzalintinib.

AAP, abiraterone acetate plus prednisone; ARPI, androgen receptor pathway inhibitor; PARPi, poly ADP-ribose polymerase inhibitor; PBO, placebo.

Attard G, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, USA: Abstract LBA5006.

Overview of AMPLITUDE safety profile

| Safety population, n (%) | Niraparib + AAP (n=347)* | PBO + AAP (n=348) |
|---|-----------------------------|----------------------|
| Treatment-emergent adverse events (TEAEs) | 346 (>99) | 341 (98) |
| Treatment-related TEAEs [†] | 309 (89) | 257 (74) |
| Grade 3 or 4 TEAEs | 261 (75) | 205 (59) |
| Treatment-related grade 3 or 4 TEAEs | 193 (56) | 105 (30) |
| Serious adverse events (SAEs) | 136 (39) | 96 (28) |
| Treatment-related SAEs | 44 (13) | 11 (3) |
| TEAEs leading to treatment discontinuation [‡] | 51 ^{**} (15) | 36 (10) |
| TEAEs leading to dose reduction | 76 (22) | 24 (7) |
| TEAEs leading to death ^{††} | 14 ^{‡‡} (4) | 7 (2) |

<5% increase in rate of discontinuation due to toxicity of niraparib + AAP versus PBO + AAP

Table adapted from Attard G, et al. 2025.

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Niraparib is not licenced for the treatment of mHSPC; this is an investigational combination.

Median duration of treatment was 25.3 months in the niraparib + APP arm and 22.5 months in the PBO + APP arm.

*One randomised patient never received the study treatment. † AE is categorised as related if assessed by the investigator as related to study treatment (niraparib/PBO or AA/PBO or prednisone). ‡ An AE is counted as leading to discontinuation of study treatment if it leads to withdrawal of niraparib/PBO or AA/PBO or prednisone. **Includes one case of MDS. ††AE leading to death based on AE outcome of fatal. ‡ † TEAE leading to death included 4 cases of respiratory infection, including 2 attributed as related to COVID-19, 4 attributed to cardiac causes, 3 classified as sudden death and 1 each of sepsis, subdural hematoma and multiorgan dysfunction syndrome.

AAP, abiraterone acetate plus prednisone; AE, adverse event; MDS, myelodysplastic syndrome; PBO, placebo; SAE, serious adverse event; TEAE, treatment-emergent adverse event.

Attard G, et al. Presented at ASCO 2025, 30 May–03 June 2025, Chicago, IL, USA: Abstract LBA5006.

Adverse events of special interest

| Selected categories of TEAEs of interest, n (%) | | · · | Niraparib + AAP (n=347) | | PBO + AAP (n=348) | |
|---|--|--|--|--------------------------------------|-----------------------------------|--|
| | | All grades | Grade ≥3 | All grades | Grade ≥3 | |
| Patients with ≥1 AE of in | terest | 306 (88) | 217 (63) | 261 (75) | 132 (38) | |
| Hematologic | Anaemia Neutropenia Thrombocytopenia MDS | 179 (52) 76 (22) 66 (19) 1 (<1) | 101 (29) 33 (10) 24 (7) 1 (<1) | 83 (24) 28 (8) 20 (6) 0 (0) | 16 (5) 7 (2) 1 (<1) 0 (0) | |
| Cardiovascular | Hypertension Arrhythmia Cardiac failure | 155 (45) 68 (20) 20 (6) | 93 (27) 19 (5) 9 (3) | 113 (33) 28 (8) 6 (2) | 64 (18) 11 (3) 4 (1) | |
| Other | Hypokalaemia Hepatotoxicity | 92 (27) 46 (13) | 40 (12) 8 (2) | 70 (20) 71 (20) | 38 (11) 19 (5) | |

• Other common AEs of any grade: Constipation (35% vs. 16%), nausea (31% vs. 14%), fatigue (26% vs. 18%) and arthralgia (21% vs. 21%) in the niraparib + AAP vs. placebo + AAP arms, respectively

Table adapted from Attard G, et al. 2025.

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Patients are counted only once for any given event, regardless of the number of times they actually experienced the event. The event experienced by the patient with the worst toxicity is used. If a patient has missing toxicity for a specific AE, the patient is only counted in the total column for that AE.

AAP, abiraterone acetate plus prednisone; AE, adverse event; MDS, myelodysplastic syndrome; PBO, placebo; TEAE, treatment-emergent adverse event.

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Conclusions¹

- The AMPLITUDE trial met its primary endpoint of rPFS and is the first trial to show efficacy of a PARPi + ARPI combination in mHSPC with HRR alterations, with the greatest benefit likely observed in patients with BRCA alterations
- Improvements in rPFS are supported by a statistically significant benefit in time to symptomatic progression and a trend toward improved OS
- The safety profile of niraparib + AAP was consistent with that previously observed in the MAGNITUDE trial,² with a <5% increase in patients discontinuing treatment due to toxicity than in those receiving placebo
- AMPLITUDE supports niraparib + AAP as a potential option for patients with mHSPC and HRR gene alterations



Takeaways¹

- AMPLITUDE met its primary endpoint of rPFS
- AMPLITUDE is the first trial to show efficacy of the combination of a PARPi and an ARPI in mHSPC with HRR alterations, with greatest benefit in patients with BRCA alterations
- Improvements in rPFS are supported by a statistically significant benefit in time to symptomatic progression
- The safety profile of niraparib + abiraterone acetate plus prednisone was consistent with that previously observed in the MAGNITUDE trial, with a <5% increase in patients discontinuing treatment due to toxicity versus those receiving placebo + abiraterone acetate plus prednisone

Impact of somatic/germline homologous recombination repair (HRR) alterations on metastatic hormone-sensitive prostate cancer (mHSPC)



- The presence of HRR mutations, particularly BRCA alterations, significantly worsened prognosis, regardless of disease volume or treatment regimen
- These findings highlight the need for early HRR screening and underscore the importance of integrating tumour biology for accurate risk stratification in mHSPC and the design of new treatment strategies





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