

A descriptive analysis of treatment patterns and clinical outcomes in patients with metastatic Castration Sensitive Prostate Cancer (mCSPC) who initiated apalutamide or darolutamide in U.S. Community Urology Practices

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Background and methods

Retrospective descriptive analysis of treatment patterns and outcomes in patients with mCSPC treated with apalutamide or darolutamide

OBJECTIVE

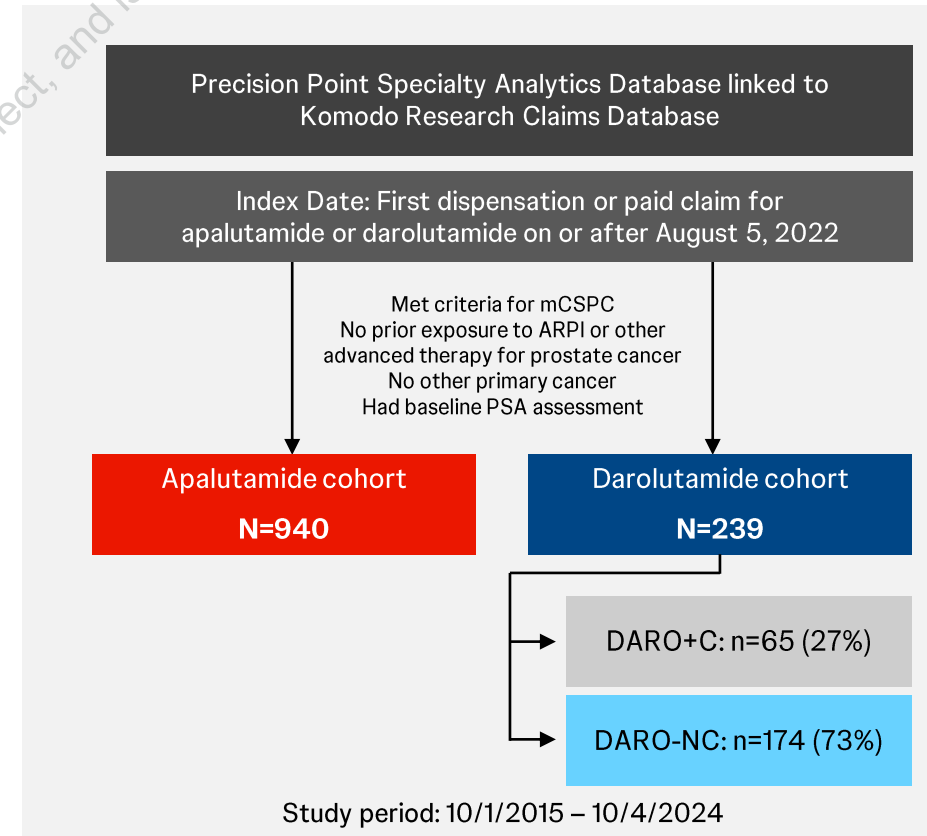
- To evaluate treatment patterns and outcomes among patients with mCSPC who initiated apalutamide or darolutamide (with or without concurrent chemotherapy)

BACKGROUND

- Apalutamide has been extensively evaluated in real-world practice, particularly on outcomes of early, deep PSA reduction (PSA90) and overall survival^{1,2}
- Limited real-world evidence has been produced on darolutamide in combination with or without chemotherapy for the treatment of mCSPC

METHODS

- **Study design:** Retrospective, descriptive analysis of patients with mCSPC who initiated apalutamide or darolutamide
- **Data sources:** Linked clinical data from EMR (Precision Point Specialty Analytics) and healthcare claims databases (Komodo Research Claims Database)
- **Patient selection:** Patients with mCSPC and ≥12 months of pre-index claims and clinical activity
- **Patient stratification:** Patients initiating darolutamide were stratified by receipt (DARO+C) or absence (DARO-NC) of concurrent chemotherapy (i.e., receipt of chemotherapy within 6 weeks before or after the index date)
- **Statistical analyses:** Patients were followed from index date until the end of insurance or clinical activity, death, or end of data availability (October 4, 2024). Unweighted Kaplan-Meier analyses were used to assess time to PSA90 (90% reduction in PSA from baseline), and progression to CR



Results: Baseline characteristics

Patient population

Across cohorts, the majority were White, had Medicare, and used concurrent ADT*

Select baseline characteristics

	APA n=940	DARO+C n=65	DARO-NC n=174
Median follow-up, months	9.9	11.6	9.0
Age in years, mean (SD)	74.1 (8.3)	67.9 (7.3)	72.4 (9.2)
Medicare insured, %	79.8	58.5	78.7
Quan-CCI score [excluding PC diagnosis], mean (SD)	5.1 (3.2)	6.5 (2.3)	5.4 (3.2)
Most recent Gleason score, %			
≤6	5.9	9.2	4.6
7	28.2	20.0	24.1
8	16.3	10.8	16.7
9	20.9	33.8	23.6
10	2.0	1.5	1.1
Unknown	26.8	24.6	29.9

	APA n=940	DARO+C n=65	DARO-NC n=174
<i>De novo</i> mCSPC before ARPI, %	30.7	55.4	39.7
Metastasis type, %			
Bone	64.9	52.3	62.1
Nodal	56.0	87.7	73.0
Visceral	5.2	13.8	12.1
Multiple sites	25.7	52.3	43.7
Concurrent use of ADT*, %	88.6	98.5	92.5
PSA levels in ng/mL, mean (SD)	21.9 (105.9)	94.0 (239.3)	60.5 (358.5)

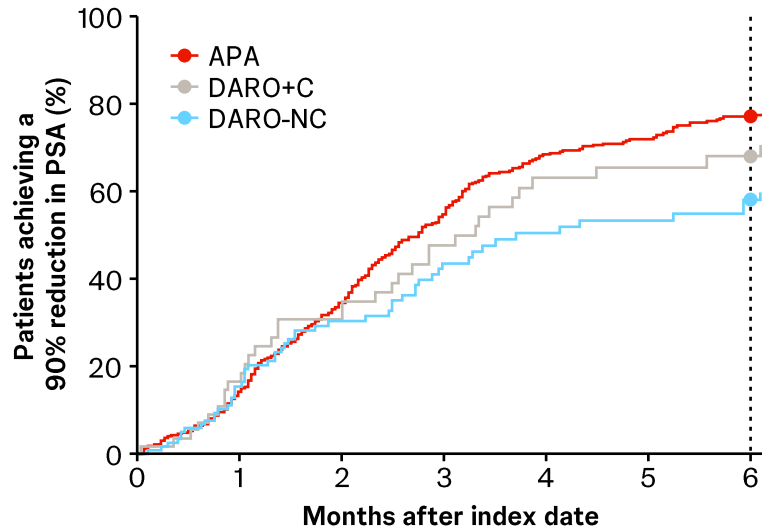
*Concurrent ADT use is defined as use of ADT within 6 months before or after the index date.

ADT, androgen deprivation therapy; APA, apalutamide; ARPI, androgen-receptor pathway inhibitor; C, chemotherapy; CCI, Charlson Comorbidity Index; DARO, darolutamide; mCSPC, metastatic castration-sensitive prostate cancer; NC, no chemotherapy; PC, prostate cancer; PSA, prostate-specific antigen; PSA90, 90% reduction in PSA; SD, standard deviation.

Results: PSA90 and castration resistance

Proportion achieving PSA90*

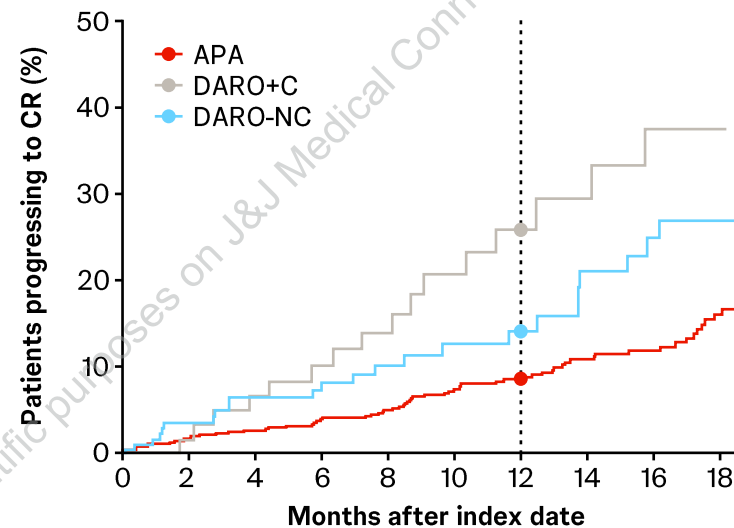
Among patients with baseline PSA >0.2ng/ml, **the proportions of patients achieving a PSA90** by 6 months were **77.1% (APA)**, **68.0% (DARO+C)**, and **58.2% (DARO-NC)**



PSA90*	6 months (95% CI)
APA	77.1% (72.2–81.0)
DARO+C	68.0% (51.2–79.1)
DARO-NC	58.2% (45.8–67.7)

Proportion progressing to CR†

By 1-year post-index, **the proportion of patients progressing to CR** was **8.6% (APA)**, **26.0% (DARO+C)**, and **14.2% (DARO-NC)**



Progression to CR†	12 months (95% CI)
APA	8.6% (6.3–10.8)
DARO+C	26.0% (12.4–37.5)
DARO-NC	14.2% (7.3–20.6)

LIMITATIONS



No statistical comparisons and no adjustments for differences in patient baseline criteria were made

KEY TAKEAWAY



In patients with mCSPC, concurrent chemotherapy use with darolutamide was observed in less than one-third of patients treated with darolutamide



Descriptive differences in early PSA reduction and progression to castration resistance were observed in the apalutamide vs darolutamide (with or without chemotherapy) cohorts

CONCLUSION



The rapid, deep 90% reduction in PSA observed with apalutamide was consistent with previous studies



Further causal analyses are warranted to better assess differences in treatment effect

*Among patients with baseline PSA >0.2ng/ml. Patients were censored at index ARPI treatment discontinuation (treatment gap >90 days), switching to the other index ARPI treatment, add-on of or switching to another advanced therapy for prostate cancer, progression to castration resistance, or initiation of chemotherapy (APA and DARO-NC cohorts only). †Patients were censored at switching to the other index ARPI treatment, or initiation of chemotherapy (APA and DARO-NC cohorts only).

APA, apalutamide; ARPI, androgen-receptor pathway inhibitor; C, chemotherapy; CI, confidence interval; CR, castration resistance; DARO, darolutamide; EMR, electronic medical record; mCSPC, metastatic castration-sensitive prostate cancer; NC, no chemotherapy; PSA, prostate-specific antigen; PSA90, 90% reduction in PSA from baseline.