

# An Observational Study to Compare cardiovascular related hospitalization in chemo-naïve Patients with Metastatic Castration Resistant Prostate Cancer, treated with Enzalutamide or Abiraterone in daily practice in Germany (AVENGER)

**First published:** 11/05/2023

**Last updated:** 29/07/2024

Study

Finalised

## Administrative details

### EU PAS number

EUPAS104771

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### Study ID

105061

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### DARWIN EU® study

No

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## Study countries

☐ Germany

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## Study description

This observational study will be based on anonymized German claims data provided by two German health insurance funds. The primary objective of the study is to analyze and compare the risk of cardiovascular (CV) events in chemotherapy-naïve patients with metastatic castration resistant prostate cancer (mCRPC) who initiated treatment with enzalutamide or abiraterone. The secondary objectives of this study are to:

- Analyze and compare the CV event rate (including recurrent events) in chemotherapy-naïve patients with mCRPC who initiated treatment with enzalutamide or abiraterone
- Describe and compare characteristics of chemotherapy-naïve patients with mCRPC initiating treatment with enzalutamide or abiraterone
- Describe treatment sequences and durations of treatments following enzalutamide or abiraterone initiation in chemotherapy-naïve patients with mCRPC

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## Study status

Finalised

# Research institutions and networks

## Institutions

**Ingress-Health HWM**

**First published:** 01/02/2024

**Last updated:** 01/02/2024

A Cytel company

## Contact details

### Study institution contact

Clinical Trial Registration Department  
[clinicaltrialregistration@astellas.com](mailto:clinicaltrialregistration@astellas.com)

Study contact

[clinicaltrialregistration@astellas.com](mailto:clinicaltrialregistration@astellas.com)

### Primary lead investigator

Müller Sabrina

Primary lead investigator

## Study timelines

### Date when funding contract was signed

Actual: 23/06/2022

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### Study start date

Planned: 15/05/2023

Actual: 15/05/2023

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**Data analysis start date**

Planned: 01/12/2023

Actual: 15/05/2024

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**Date of final study report**

Planned: 20/05/2024

Actual: 15/05/2024

## Sources of funding

- Pharmaceutical company and other private sector

## More details on funding

Astellas Pharma Europe Ltd.

## Study protocol

[9785-ma-3497 - original protocol-disclosure-redacted \(1\).pdf](#)(1.72 MB)

[9785-ma-3497-protocol-v2-incorp-nonsubst-amend-01-disclosure-redacted.pdf](#)  
(1.62 MB)

## Regulatory

**Was the study required by a regulatory body?**

No

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**Is the study required by a Risk Management Plan (RMP)?**

Not applicable

## Other study registration identification numbers and links

## Methodological aspects

### Study type

#### Study type list

**Study type:**

Non-interventional study

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**Scope of the study:**

Other

**If 'other', further details on the scope of the study**

To analyze and compare the risk of CV events in chemotherapy-naïve patients with mCRPC who initiated treatment with enzalutamide or abiraterone.

**Main study objective:**

The primary objective of this study is to analyze and compare the risk of CV events in chemotherapy-naïve patients with mCRPC who initiated treatment with enzalutamide or abiraterone.

### Study Design

**Non-interventional study design**

Cohort

Other

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## **Non-interventional study design, other**

Retrospective, non-interventional cohort study

# Study drug and medical condition

## **Medical condition to be studied**

Hormone-refractory prostate cancer

# Population studied

## **Age groups**

Adults (18 to < 46 years)

Adults (46 to < 65 years)

Adults (65 to < 75 years)

Adults (75 to < 85 years)

Adults (85 years and over)

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## **Estimated number of subjects**

2418

# Study design details

## **Outcomes**

Time to first CV event, defined as CV-related hospitalization. • Number of CV events per patient, defined as CV-related hospitalizations • Baseline characteristics: age, Charlson comorbidity index, cardioembolic risk score, presence of specific comorbidities, number of urologist visits, number of hospitalizations • Treatment sequences and durations of treatments

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## Data analysis plan

- Matching of the comparative groups via propensity score model.
- Primary outcome: Kaplan-Meier analysis and Cox Proportional Hazard model to estimate hazard ratio, 95% confidence interval and p-value
- Descriptive analysis for baseline characteristics secondary outcome.
- Treatment sequences and durations secondary outcome: Descriptive analysis, Kaplan-Meier analysis.

## Data management

### Data sources

#### Data source(s), other

AOK PLUS Germany, GWQ ServicePlus Germany

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#### Data sources (types)

[Other](#)

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#### Data sources (types), other

This study is a retrospective non-interventional database analysis utilizing German claims data provided by the cooperating sickness funds.

## Use of a Common Data Model (CDM)

#### CDM mapping

No

## Data quality specifications

**Check conformance**

Unknown

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**Check completeness**

Unknown

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**Check stability**

Unknown

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**Check logical consistency**

Unknown

## Data characterisation

**Data characterisation conducted**

No