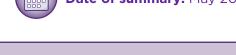
# How low do PSA levels need to be to maximize survival and slow cancer growth in patients with prostate cancer?

The full title of this abstract is: How low do you need to go? Association between various prostate-specific antigen (PSA) response measures and clinical outcomes in metastatic castration-sensitive prostate cancer (mCSPC) in the Veteran Health Administration (VHA) data

**VIEW ABSTRACT** 

View Scientific Abstract > Date of summary: May 2025

Please note that this summary only contains information from the scientific abstract:



What are the key takeaways from this study?

**KEY TAKEAWAYS** 

#### Small amounts of PSA are usually found in the blood. - Prostate cancer cells that are growing quickly can result in increased PSA levels.

- Some prostate cancer treatments lower PSA levels, which can help patients live longer.

• Prostate-specific antigen (PSA) is a protein produced by normal prostate cells.

- Patients with metastatic castration-sensitive prostate cancer (mCSPC) who
  - reached a PSA level of less than 0.2 nanograms per milliliter within 9 months of starting prostate cancer treatment were 54% less likely to die and 55% less likely to have their cancer grow than patients who did not.
- Patients whose PSA levels decreased by 90% or more within 9 months of starting prostate cancer treatment were 22% less likely to die than patients who did not. - There was no difference between these patients in the likelihood of having their cancer grow.
- These results suggest that reaching a PSA level of less than 0.2 nanograms per milliliter within 9 months of starting prostate cancer treatment may be needed to maximize the chance of survival and reduce the chance of cancer growth.
- **PHONETICS** Find out how to say medical terms used in this summary

**Prostate cancer** < meh-tuh-STA-tik > < PROS-tayt KAN-ser >

- Metastatic

Androgen

< AN-droh-jen >

**Docetaxel** 

< DOH-seh-TAK-sil >

< EN-zuh-LOO-tuh-mide >

**Enzalutamide** 

What did this study look at?

INTRODUCTION

#### - The prostate is part of the male body that helps make semen. - Cancer is a disease where abnormal cells multiply and form a tumor. Most prostate cancers need male sex hormones, called androgens, to grow.

common cancers in males.

PSA levels.

making cancer grow;

This study looked at patients with mCSPC.

- Testosterone is an example of an androgen.
- Castration-sensitive prostate cancer (CSPC) is a type of prostate cancer that responds to treatments called androgen deprivation therapy (ADT) which lowers androgen levels.

- Prostate cancer cells that are growing quickly can result in increased

Prostate cancer is a cancer that occurs in the prostate. It is one of the most

• **Metastatic** means that the cancer has spread to other parts of the body. • PSA is a protein produced by normal prostate cells. Small amounts of PSA are usually found in the blood.

What treatments did patients in this study receive?

- A lower PSA level after treatment can be a sign that the treatment is keeping the cancer under control.
- All patients in this study received ADT. Some patients received ADT combined with another treatment. These treatments included:
  - androgen-receptor pathway inhibitors (ARPIs), such as enzalutamide, which can stop testosterone from making cancer grow;

- nonsteroidal antiandrogens (**NSAAs**), which can stop testosterone from

### What does the study describe? • In this **real-world study**, researchers looked at medical records of patients with

mCSPC to measure **PSA response** to prostate cancer treatment.

- chemotherapy, such as **docetaxel**, which can block cancer growth.

- Prostate cancer treatments that lower testosterone can also lower PSA levels. This is known as PSA response. Researchers looked at two different ways of measuring PSA response:

- Real-world studies look at what happens to people in a real-life setting (such as a doctor's office or hospital) rather than in a clinical trial.

during PSA follow-up - Patients whose PSA level decreased by 90% or more during PSA follow-up

Nanogram per milliliter: A nanogram is one billionth of a gram, and a

- Patients who reached a PSA level of less than **0.2 nanograms per milliliter** 

levels during the study.

How many patients achieved these PSA responses during PSA

For patients who achieved PSA responses within 9 months of

treatment, were these PSA responses related to:

plus docetaxel

**PSA follow-up:** The period of time that researchers collected a patient's PSA

- how likely patients were to die after 9 months? - how likely patients were to have cancer growth after 9 months?

## Researchers looked at medical records from 4,890 patients with mCSPC who received treatment in the Veterans Health Administration between 2017

**7**% received ADT plus NSAA

40%

received ADT

plus ARPI

Who was included in this study?

milliliter is one thousandth of a liter.

Researchers wanted to find out...

follow-up?

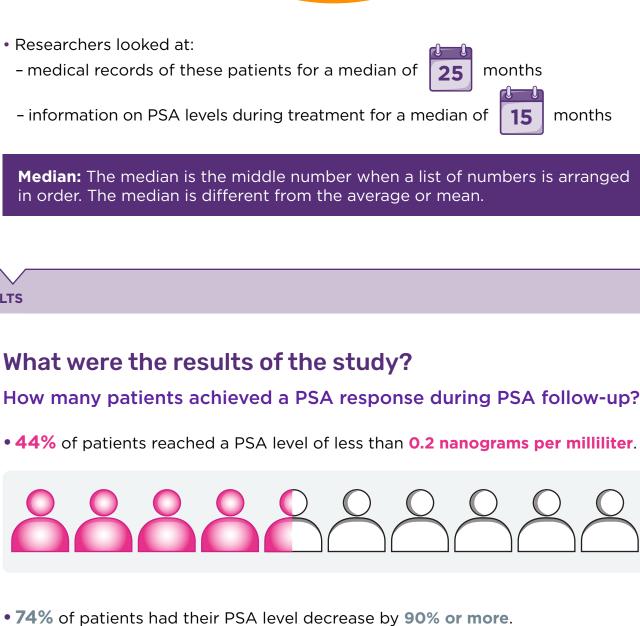
STUDY DETAILS

and 2024. 6% received ADT

4,890 patients

with mCSPC

**47%** received ADT alone



this summary.

**CONCLUSIONS** 

**RESULTS** 

What were the researchers' main conclusions? • Patients with mCSPC who achieved a PSA level of less than 0.2 nanograms per milliliter within 9 months of starting prostate cancer treatment were 54% less

likely to die and 55% less likely to have cancer growth than patients who did not. • Patients whose PSA levels decreased by 90% or more within 9 months of starting prostate cancer treatment were 22% less likely to die than patients who did not. - There was no difference between these patients in the likelihood of having

to maximize the chance of survival and reduce the chance of cancer growth.

• These results suggest that reaching a PSA level of less than 0.2 nanograms per milliliter within 9 months of starting prostate cancer treatment may be needed

Who sponsored this study?

**Hudson Yards** 

Manhattan, NY 10001

their cancer grow.

#### This study was sponsored by Pfizer Inc. and Astellas Pharma Inc. Astellas Pharma US. Inc. Pfizer Inc. 66 Hudson Boulevard 2375 Waterview Drive

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content as needed, and take full responsibility for the content of the publication.

division of Prime, London, UK) and funded by Pfizer Inc. and Astellas Pharma Inc., the co-developers of enzalutamide Pfizer's generative artificial intelligence (AI) assisted technology, MAIA (Medical Artificial Intelligence Assistant), was used in the production of this abstract plain language summary. MAIA was used to develop the first draft of this plain language summary. After using this tool, the authors reviewed and edited the

74% of patients had their PSA level decrease by 90% or more.

Patients who had a 90% or more decrease in their PSA level within 9 months of starting treatment were: 22% less likely to die than patients who did not - There was no difference between these patients in the likelihood of having their cancer grow.

This summary reports the results of a single, real-world study. The results of this study may differ from those of other studies. Health professionals should make treatment decisions based on all available evidence, not

on the results of a single study. Enzalutamide is approved to treat the condition that is discussed in

For patients who achieved PSA responses within 9 months of

patients lived or how long it took for their cancer to grow?

9 months of starting treatment were:

**54%** less likely to die

starting treatment, were these PSA responses related to how long

Patients who reached PSA levels of less than 0.2 nanograms per milliliter within

55% less likely to have their cancer grow than patients who did not

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