

Summary of the MAGNITUDE study in patients with metastatic castration-resistant prostate cancer (mCRPC)



- A standard treatment for mCRPC is **abiraterone acetate with prednisone (AAP)**
 - Is adding another cancer medicine called **niraparib** to **AAP** more helpful for patients with mCRPC?
- Some patients with mCRPC have **changes in certain genes that are involved in repairing DNA in the cell, a process known as homologous recombination repair (HRR)**
- Cancers that have changes in HRR genes may not respond as well to treatments that are normally used
 - Is adding **niraparib** to **AAP** more helpful for patients with these **gene changes**?

This infographic summarizes the results from the first analysis of the MAGNITUDE clinical trial data

More information

For more information on the results of the MAGNITUDE trial, please see the complete plain language summary by scanning the QR code:

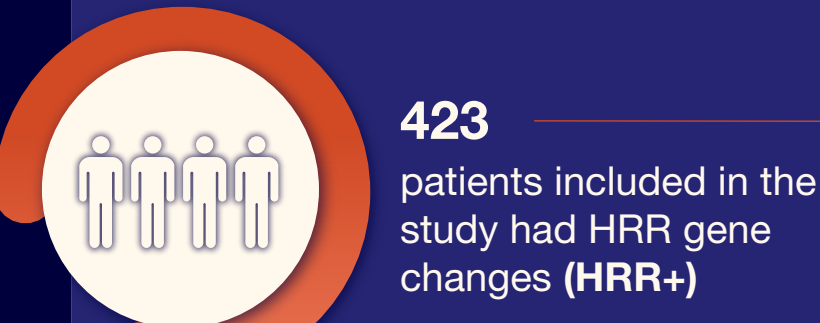


WHO WAS INCLUDED IN THE STUDY?

670 patients with mCRPC aged 18 years or older from 26 countries were included.

Before being randomly assigned to a treatment, patients with mCRPC were tested to see if they had changes in genes related to **HRR**.

HRR is a normal biological process used by cells to repair damaged DNA.



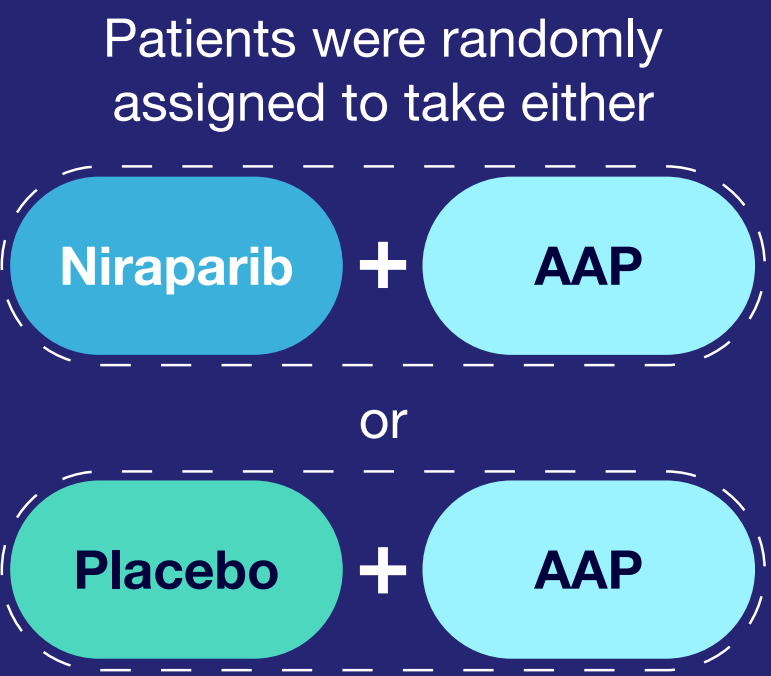
BRCA1 and **BRCA2** are two of the most well-studied **HRR genes**.

Previous studies suggested that patients with **BRCA1** or **BRCA2** gene changes might experience the best effect from combining **niraparib** and **AAP**.

247 patients did not have HRR changes

WHAT TREATMENTS DID PATIENTS RECEIVE?

Niraparib is a cancer medicine that blocks poly ADP-ribose polymerase (PARP), a protein which repairs DNA damage. If patients with **HRR gene changes** are treated with **niraparib**, then neither PARP nor **HRR** can repair damaged DNA. This can lead to cancer cell death.



Abiraterone acetate (AA) is a standard medicine for mCRPC. It blocks the production of a type of hormone called androgen (e.g., testosterone) which helps the cancer to grow and survive. It is taken with prednisone (P) to reduce side effects.

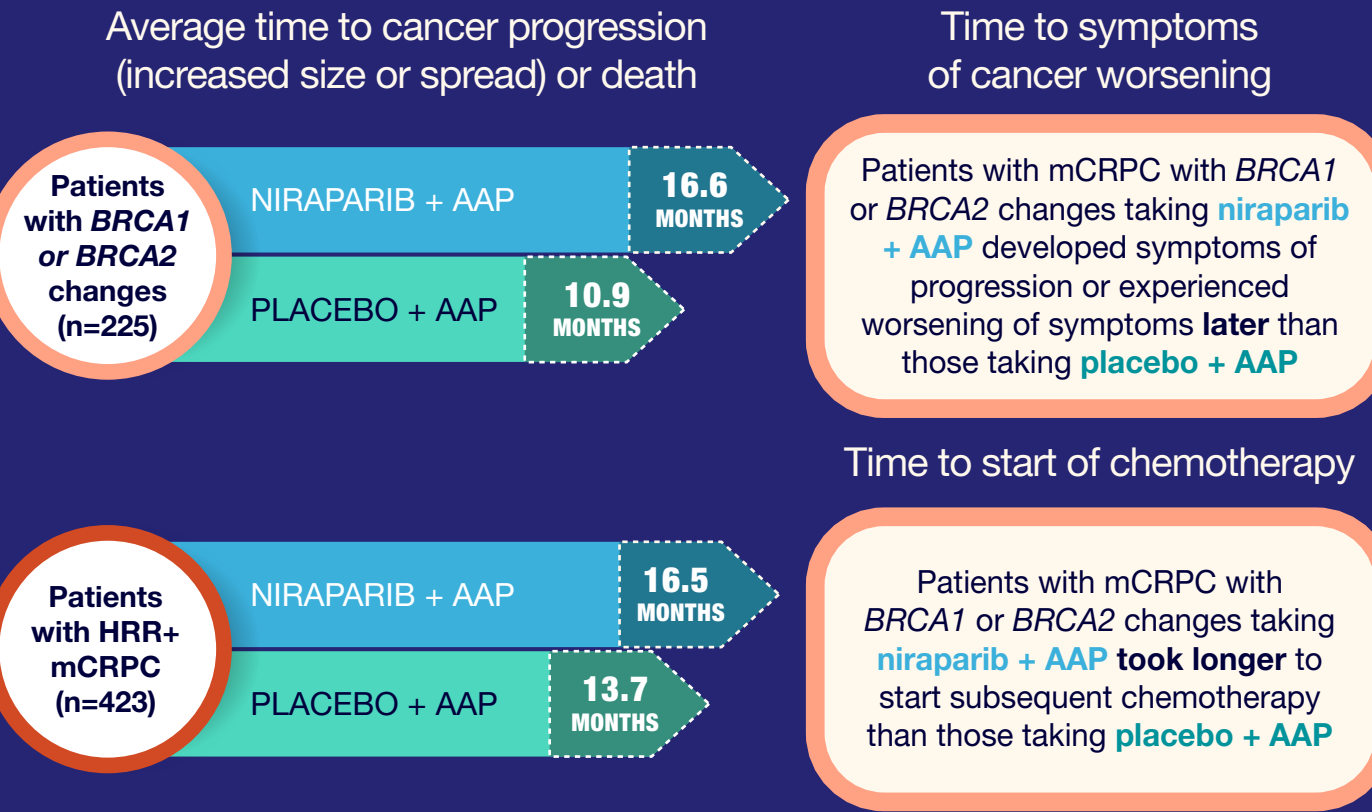
A **placebo** is a substance that looks like and is taken in the same way as the medicine being studied but does not contain any active ingredients. It is included as a comparison to the main test medicine (**niraparib**). Neither the patients nor the researchers knew who was taking **niraparib** or **placebo** until after the study had finished (this process is known as ‘blinding’ and makes sure there is no pre-judgement that might affect the results).

Conclusions

- In this study, patients with **HRR+ mCRPC** benefited more from taking **niraparib + AAP** compared with **placebo + AAP**, as they had a longer time until cancer progression/death or the need to start chemotherapy. This difference in time was longest for patients with **BRCA1 or BRCA2 gene changes**
- Testing for **HRR gene changes** is important when deciding on whether to treat patients with mCRPC using **niraparib + AAP**
- Side effects in patients taking **niraparib + AAP** were manageable and there were no unexpected safety concerns

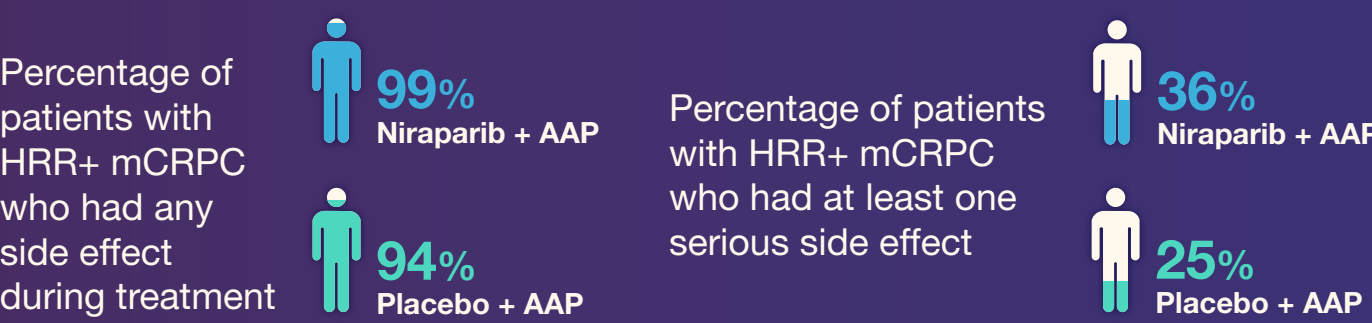
WHAT WERE THE RESULTS OF THE STUDY?

HOW EFFECTIVE WAS THE TREATMENT?



Patients without HRR gene changes did not experience any additional improvements from the addition of niraparib to AAP

WHAT WERE THE SIDE EFFECTS OF THE TREATMENT?



‘Serious’ side effects usually result in the need for medical intervention and sometimes hospitalization

More patients taking **niraparib + AAP** had side effects than those taking **placebo + AAP**, but these were manageable and consistent with the known side effects of the two medicines.

- Patients taking **niraparib + AAP** most commonly had the following side effects:
- **Anemia** (low number of red blood cells)
 - **Hypertension** (high blood pressure)
 - **Constipation** (hard poo or difficulty pooing)
 - **Fatigue** (feeling extremely tired or weak)
 - **Nausea** (feeling sick)
- Quality of life** during treatment, as reported by patients through questionnaires, was similar for patients taking **niraparib + AAP** and those taking **placebo + AAP**.

The MAGNITUDE study enrolled patients from February, 2019 to March, 2021. Results from a second analysis, which was performed 8 months after the first analysis, support the results of this first analysis.