Effect of Iorlatinib in people with advanced lung cancer who have received previous treatments

The full title of this abstract is: Efficacy and safety of lorlatinib in patients with ALK+ metastatic non-small cell lung cancer (mNSCLC) previously treated with an ALK inhibitor: results from a phase 4 study

VIEW ABSTRACT

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

View Scientific Abstract





Study number: NCT04362072



Study start date: Study end date: September 2020 October 2024

For more information on this study, go to: https://clinicaltrials.gov/study/NCT04362072

KEY TAKEAWAY

What are the key takeaways from this study?

- The clinical trial showed that lorlatinib treatment was beneficial for people with ALK-positive NSCLC that got worse after their previous treatment
 - About 42% of people had their tumors shrink or disappear
 - For people whose cancer had spread to the brain prior to the start of the study, 47% had their tumors shrink or disappear
- Most people treated with lorlatinib had some side effects, but only a few people needed to decrease or stop their treatment because of these side effects

PHONETICS

Find out how to say medical terms used in this summary



ALK gene < a-ell-kay jeen >

Lorlatinib
< lor-LA-tih-nib >



Metastatic

< meh-tuh-STA-tik >

GLOSSARY

Cancer: abnormal cells that grow and divide without control and spread to other parts of the body.

Gene: a part of our genetic material (DNA) that contains information for making a specific protein. Proteins are substances that help the body to function.

Metastatic/advanced: cancer that has spread from the place where it started to another part of the body.

Peripheral neuropathy: a nerve problem that causes pain, numbness, tingling, swelling, or muscle weakness in different parts of the body

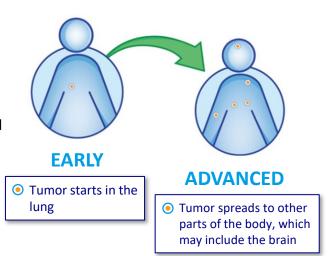
What does this study look at?

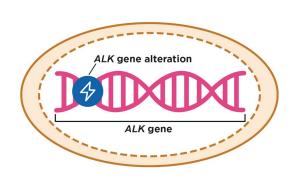
What is advanced NSCLC?

- Non-small cell lung cancer or NSCLC is the most common type of lung cancer.
- NSCLC that has spread to other parts of the lungs or body is called metastatic or advanced NSCLC.

What is advanced ALK-positive NSCLC?

- Some people with NSCLC have changes in a gene called anaplastic lymphoma kinase or ALK in their cancer cells.
- The ALK gene makes a protein that controls how cells grow. If there is a change in the ALK gene, the ALK protein does not work properly. This leads to problems with cell growth that can cause cancer.
- Changes in the ALK gene are found in about 3% to 7% of NSCLC. This type of cancer is called ALK-positive NSCLC.
- People with advanced ALK-positive NSCLC have a high chance of the cancer spreading to the brain.





What is lorlatinib?

Lorlatinib is a type of medicine known as an ALK inhibitor. It is a third-generation ALK inhibitor, meaning that it is a newer type of ALK inhibitor. It stops cancer cells from growing and spreading by blocking the actions of proteins like ALK.

What is this study?

- In this study, researchers looked at the effects of an ALK inhibitor, lorlatinib, in people
 whose advanced lung cancer got worse after treatment with a second-generation ALK
 inhibitor.
- This was a single-arm open-label study, meaning that everyone received the same treatment, and both the researchers and the people participating in the study knew what treatment was being given.

Researchers wanted to find out...

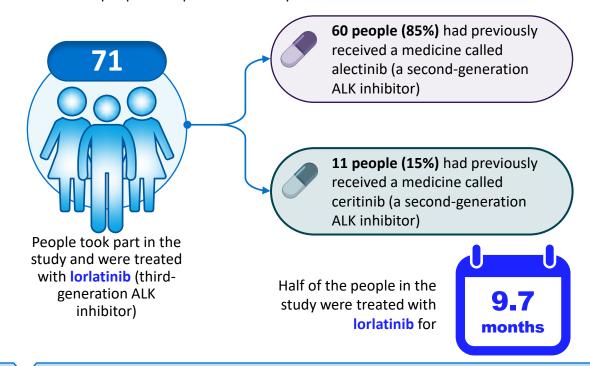
 How well treatment with lorlatinib worked in people with advanced ALK-positive NSCLC whose disease had gotten worse after their previous second-generation ALK inhibitor treatment



 What the side effects of lorlatinib treatment were in this group of people

Who took part in this study?

- This study included people with advanced ALK-positive NSCLC whose disease got worse after their previous second-generation ALK inhibitor treatment.
- At total of 71 people took part in this study and were treated with lorlatinib.



RESULTS

What were the efficacy results of this study?

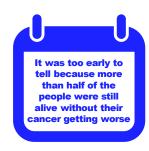
How many people had their tumors shrink or disappear?

 30 out of 71 people (42%) had their tumors shrink or disappear after starting lorlatinib



Among people who had their tumors shrink or disappear, how long did the effect last?

- Half of the people were studied for about 18.0 months after starting treatment
- It was too early to tell how long the effect will last because more than half of the people were still alive without their cancer getting worse
- There was a 65% chance that people's tumors would respond (shrink or disappear) to lorlatinib for at least 12 months



How long did half of the people in this study live without their cancer getting worse?

- For half of the people who took lorlatinib, their cancer did not get worse for estimated 12.2 months
- There was a 51% chance that their cancer would not get worse by 12 months



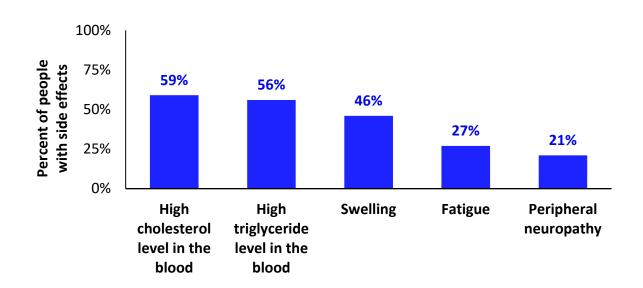
How many people whose cancer had spread to the brain had their tumors shrink or disappear?

- 30 out of 71 people had cancer that had spread to the brain prior to the start of the study
- 14 out of those 30 people (47%) had their tumors shrink or disappear after starting lorlatinib



What were the safety results of this study?

What were common side effects of taking lorlatinib?



How many people had to decrease or stop lorlatinib treatment because of side effects?



11 out of 71 people had to decrease **lorlatinib** dose



9 out of 71 people had to stop lorlatinib



None stopped **lorlatinib** because of side effects due to treatment

CONCLUSIONS

What were the main conclusions of this study?

- About 42% of people with advanced ALK-positive NSCLC who received lorlatinib had their tumors shrink or disappear
- For half of people treated with lorlatinib, their cancer did not get worse for 12.2 months
- For people whose cancer had spread to the brain prior to the start of the study, 47% had their tumors shrink or disappear with **lorlatinib** treatment
- Most people had side effects like high levels of cholesterol or triglycerides in the blood, swelling, fatigue, and peripheral neuropathy, but only a few people had to decrease or stop lorlatinib treatment

This summary reports the results of a single 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. Lorlatinib is approved to treat the condition under study that is discussed in this summary.

MORE INFORMATION

Who sponsored the study?

This study was sponsored by Pfizer.

Pfizer Inc.

66 Hudson Boulevard East

New York, NY 10001

Phone (United States): +1 212-733-2323

The sponsor thanks everyone who took part in this study.

Where can I find more information?

For more information on this study, please visit:



https://clinicaltrials.gov/study/NCT04362072

For more information on clinical trials in general, please visit:

https://www.clinicaltrials.gov/study-basics/learn-about-studies

https://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/what-clinical-trials-are