



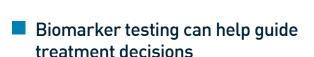
EXPLORE WHAT'S POSSIBLE.

Navigating NSCLC: A biomarker testing guide & glossary

XALKORI is a prescription medicine used to treat people with non-small cell lung cancer (NSCLC) that has spread to other parts of the body and is caused by a defect in either a gene called ALK (anaplastic lymphoma kinase) or a gene called ROS1. It is not known if XALKORI is safe and effective in children.

How genetics is changing the fight against non-small cell lung cancer (NSCLC)

In the past, most people with non-small cell lung cancer (NSCLC) were treated with a standard, broad approach. But today, breakthroughs in genetics have revealed new insights about what causes some tumors to grow. These discoveries are sparking a change in how your doctor may treat your NSCLC. It all begins with a test.



Biomarker testing and biomarker-driven treatments

As scientists study cancer cells at the molecular level, they are finding genetic changes or defects that are common to certain types of cancer. In some cases, these defects are what make the cells grow and multiply abnormally. Biomarkers are the signs of these genetic defects. Biomarker-driven therapies are believed to work by blocking the activity of the defective gene that is making the cancer grow.

By testing a sample of your tumor for biomarkers, doctors can learn if your cancer has one of these defects — and then use that information to recommend specific treatment options. Biomarker testing may also be referred to as molecular profiling, a tumor marker test, molecular testing or mutation profiling.

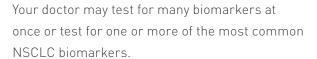
The ALK and ROS1 fusion genes

Everyone has the ALK and ROS1 genes in their cells. But when a part of the ALK or the ROS1 gene breaks off and reattaches the wrong way, it becomes a fusion gene. This may cause the cell to multiply out of control, resulting in cancer growth.

The specific types of lung cancer that test positive for the ALK or ROS1 fusion genes are called ALK-positive (ALK+) or ROS1-positive (ROS1+), depending on which gene is abnormal.



The only way to find out if your lung cancer is positive for ALK or ROS1 is to do a biomarker test.



It's important to know that if you test positive for ALK, you typically would not test positive for ROS1, and vice versa. But both of them are thought to play a critical role in the growth of some NSCLCs.

About 3% to 5% of people with NSCLC test ALK+ and about 1% to 2% test ROS1+. These numbers may seem small, but not if you are one of them.

BIOMARKERS AND XALKORI® (CRIZOTINIB)

The ALK and ROS1 fusion genes (continued)

Who can have ALK+ or ROS1+ NSCLC?

The short answer is there is no one "type" of person who has it. Men and women with NSCLC who tested ALK+ or ROS1+ for clinical trials were of various ethnicities and a wide age range. Some had smoked, though most had never smoked. While some people may be more likely to carry either altered gene, there is no true way to know without getting tested.

What's involved in testing?



Your doctor needs a tissue sample, or biopsy, of the tumor. If there's enough tissue from a previous biopsy, that sample could be used. If not, another biopsy would be needed. Once the tissue is sent to the lab, most results come back within two weeks.

If you have any questions about biomarker testing or whether your tumor may be positive for ALK or ROS1, talk to your doctor.

Ask your doctor if the biopsy will remove a large enough tissue sample for biomarker testing.

About XALKORI

XALKORI is a prescription medicine used to treat people with non-small cell lung cancer (NSCLC) that has spread to other parts of the body and is caused by a defect in either a gene called ALK (anaplastic lymphoma kinase) or a gene called ROS1. It is not known if XALKORI is safe and effective in children.

In 2011, XALKORI became the first medication for people who test ALK+ and have NSCLC that has spread to other parts of the body (metastatic).

Today, it also treats those who test ROS1+. By blocking the action of the abnormal ALK or ROS1 gene, XALKORI may shrink or slow the growth of the cancer for a certain length of time.

Getting tested is the only way for your doctor to know if XALKORI might be an option for you.



The attached glossary can help you understand medical language that you may come across during your treatment journey.

IMPORTANT SAFETY INFORMATION

Important Safety Information

XALKORI® (crizotinib) may cause serious side effects, some of which may include:

Liver problems — XALKORI may cause life-threatening liver injury that may lead to death. Your healthcare provider should do blood tests to check your liver every 2 weeks during the first 2 months of treatment with XALKORI, then once a month. Tell your healthcare provider right away if you get any of the following new or worsening symptoms:

- yellowing of your skin or the white part of your eyes
- severe tiredness
- dark or brown (tea color) urine
- nausea or vomiting
- decreased appetite
- pain on the right side of your stomach
- bleed or bruise more easily than normal
- itching

Lung problems (pneumonitis) — XALKORI may cause life-threatening lung problems that may lead to death. Symptoms may be similar to those symptoms from lung cancer. Tell your healthcare provider right away if you have any new or worsening symptoms, including:

- trouble breathing or shortness of breath
- cough with or without mucous
- **■** fever

Heart problems — XALKORI may cause very slow, very fast, or abnormal heartbeats. Your healthcare provider may check your pulse rate and blood pressure during treatment with XALKORI. Tell your healthcare provider right away if you feel dizzy or faint or have abnormal heartbeats. Tell your healthcare provider if you take any heart or blood pressure medicines.

Severe vision problems — Vision problems are common with XALKORI. These problems usually happen within 1 week of starting treatment with XALKORI. Vision problems with XALKORI can be severe and may cause partial or complete loss of vision in one or both eyes. Your healthcare provider may hold or stop XALKORI and refer you to an eye specialist if you develop any vision problems during treatment with XALKORI. Tell your healthcare provider right away if you have any new vision problems, loss of vision or any change in vision, including:

- double vision
- seeing flashes of light
- blurry vision
- light hurting your eyes
- new or increased floaters

Before you take XALKORI, tell your healthcare provider about all of your medical conditions including if you:

- have liver or kidney problems
- have lung problems
- have heart problems, including a condition called long QT syndrome
- have vision or eye problems

IMPORTANT SAFETY INFORMATION

Important Safety Information (continued)

Before you take XALKORI® (crizotinib), tell your healthcare provider about all of your medical conditions including if you:

- are pregnant, or plan to become pregnant.XALKORI can harm the unborn baby
 - **Females** who are able to become pregnant should use effective birth control during treatment with XALKORI and for at least 45 days after the final dose of XALKORI.
 - Your healthcare provider will check to see if you are pregnant before starting treatment with XALKORI
 - Males who have female partners who can become pregnant should use condoms during treatment with XALKORI and for at least 90 days after the final dose of XALKORI.
 - Talk to your healthcare provider about birth control methods that may be right for you.
 - If you or your partner becomes pregnant, tell your healthcare provider right away.
- are breastfeeding or plan to breastfeed. It is not known if XALKORI passes into the breast milk.
 Do not breastfeed during treatment with XALKORI and for 45 days after the final dose. Talk to your healthcare provider about the best way to feed the baby during this time

Tell your healthcare provider about the medicines you take, including prescription medicines, over-the-counter medicines, vitamins, and herbal supplements.

Do not drink grapefruit juice, eat grapefruit or take supplements containing grapefruit extract during treatment with XALKORI. It may increase the amount of XALKORI in your blood to a harmful level.

The most common side effects of XALKORI include:

- vision problems
- nausea, diarrhea, or vomiting
- swelling of your hands, feet, face, or eyes
- constipation
- increased liver function blood test results
- tiredness
- decreased appetite
- upper respiratory infection
- dizziness
- feeling of numbness or tingling in your arms or legs

XALKORI can cause changes in vision, dizziness, and tiredness. Do not drive or operate machinery if you have any of these symptoms.

Avoid spending prolonged time in sunlight. XALKORI can make your skin sensitive to the sun (photosensitivity), and you may burn more easily. You should use sunscreen and wear protective clothing that covers your skin to help protect against sunburn if you have to be in the sunlight during treatment with XALKORI.

XALKORI may cause fertility problems in females and males, which may affect the ability to have children.

These are not all of the possible side effects of XALKORI.

Call your doctor for medical advice about side effects. You may report side effects to the FDA at 1-800-FDA-1088.

GLOSSARY

ALK gene:

ALK stands for anaplastic lymphoma kinase. Everyone has the ALK gene in their cells. When a part of the ALK gene breaks off and reattaches in the wrong way, it becomes an abnormal ALK gene, also known as an ALK fusion gene. This can lead to cancer cell growth and tumor survival.

ALK+ NSCLC:

A type of non-small cell lung cancer (NSCLC) where an ALK fusion gene is present. Also written as ALK-positive NSCLC.

Biomarker:

A tumor biomarker is a molecule that indicates there is a change in a tumor cell's genes that may be related to the development or spread of cancer. A biomarker may help a doctor choose a specific treatment plan for a patient based on the characteristics of his or her cancer. Also called a molecular marker

Biomarker-driven therapy:

A type of treatment that is designed to block the action of abnormal genes or proteins that may be contributing to cancer growth. For people whose tumors test positive for a certain biomarker, it may be possible to base their treatment plan on this biomarker.

Biomarker testing or Molecular profiling:

A process that allows doctors to analyze tumors to look for changes that may be contributing to cancer growth. This type of test helps a doctor develop a treatment plan for a patient. Also called a tumor marker test, molecular testing, or mutation profiling.

Biopsy:

The removal of cells or tissue for study under a microscope to look for signs of disease.

Carcinoma:

A cancer that begins in a specific area of the skin's tissue or in the lining of the internal organs.

Chemotherapy:

A cancer treatment that may work by stopping or slowing the growth of fast-dividing cancer cells.

Chromosome:

A strand of DNA that contains genes and is found in the center of cells.

Clinical trial:

A research study meant to test new medical approaches. In cancer, a clinical trial may test new ways to find, diagnose, and treat cancer.

GLOSSARY

DNA:

The genetic information passed on from parent to child. DNA is found within cells.

Gene:

A short piece of DNA that "tells" cells what to do.

Median time period:

In a cancer treatment study, it often means that half of the patients responded to a treatment for at least a specific amount of time, and half responded for less than that specific amount of time.

Metastatic:

Having to do with metastasis, which is the spread of cancer from where it started to other places in the body.

Non-small cell lung cancer (NSCLC):

A group of lung cancers that are named for the kinds of cells found in the cancer and how the cells look under a microscope. Non-small cell lung cancer is the most common kind of lung cancer.

Patient Prescribing Information:

A version of a medicine's label or package insert that is written in language meant to be understood by patients.

ROS1 gene:

Everyone has the ROS1 gene in their cells. When a part of the ROS1 gene breaks off and reattaches in the wrong way, it becomes an abnormal ROS1 gene, also known as a ROS1 fusion gene. This can lead to cancer cell growth and tumor survival.

ROS1+ NSCLC:

A type of non-small cell lung cancer (NSCLC) where a ROS1 fusion gene is present. Also written as ROS1-positive NSCLC.

Specialty pharmacy provider:

A pharmacy that focuses on providing medicines for patients with complex diseases, like cancer. Specialty pharmacies handle medicines that are often not stocked at regular neighborhood pharmacies.

Tumor:

A mass of tissue that is caused by abnormal growth of cells or by cells that live longer than normal.

EXPLORE WHAT'S POSSIBLE



■ Getting the most out of your XALKORI® (crizotinib) treatment

Remember: always follow your doctor's instructions exactly, and be sure to report any side effects you may experience right away.



For more in-depth information on NSCLC, biomarkertesting or the ALK and ROS1 genes, visit **XALKORI.com**.

Visit **XALKORI.com** for more in-depth information or to register for additional resources.





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