



A Patient's Guide to

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# Comprehensive Genomic Profiling



FOUNDATION  
MEDICINE®

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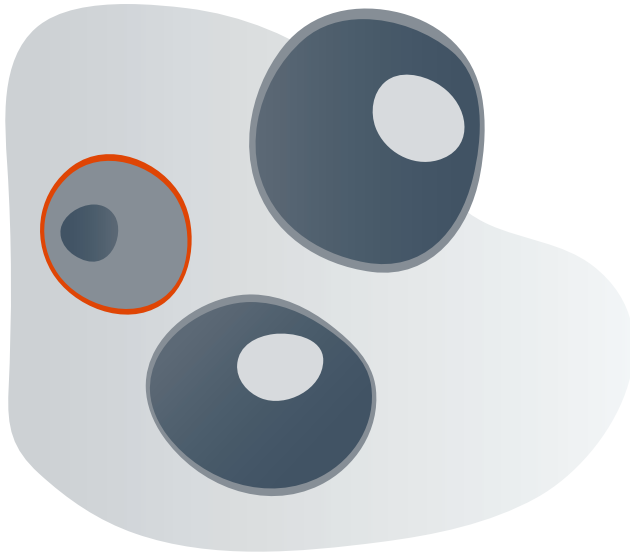
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# **Explore comprehensive genomic profiling and cancer treatment options**

01



## Cells

Our bodies are made up of trillions of cells

## DNA

DNA is like an instruction manual inside every cell with chapters called genes





## Genes

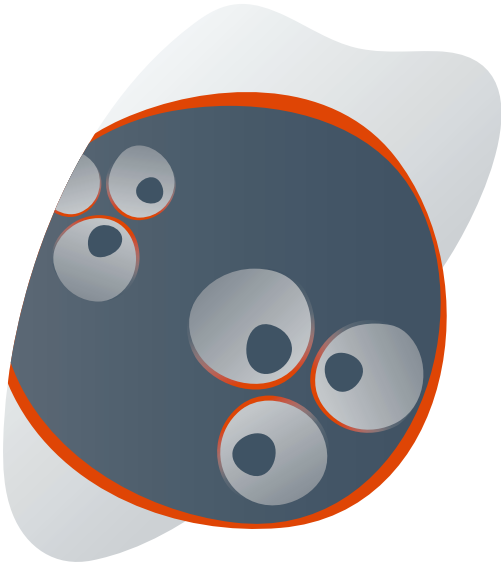
Genes tell cells what to do, including when to make new cells

**Cancer may occur when cells are growing out of control, potentially spreading into your body's tissues.**

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This happens because the DNA that tells a cell what to do is not working as it should. This is known as a mutation. Usually, our natural immune system can stop abnormal cell growth before problems happen. But when it doesn't, cells keep growing and dividing.



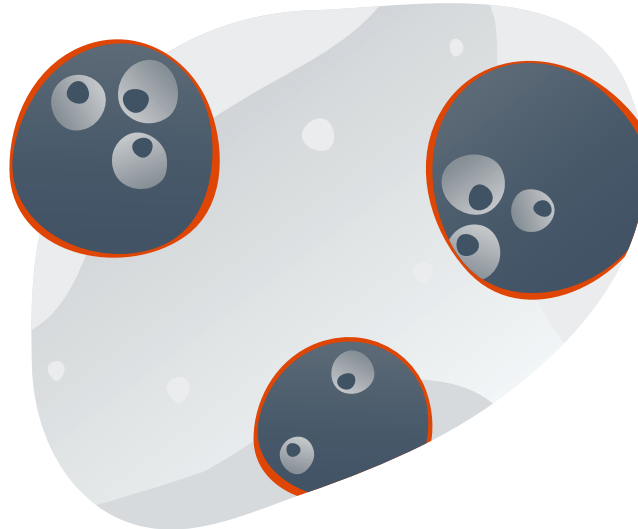


## **Localized or metastatic tumors**

In some cases, the cancer stays in one place (localized tumor). In other cases, it spreads (metastatic tumor). When tumors are metastatic, they consume the body's resources as they grow, damaging healthy tissue and organs.

## **Tumors**

When cells grow out of control, they may form a lump called a tumor. To find out if a lump is cancerous, doctors take a piece of tissue from the tumor and study it. This process is called a biopsy.





Comprehensive genomic profiling (CGP) is a method of cancer testing that can find the mutations in your DNA that may be causing your cancer to grow. The test looks at the DNA in your tumor tissue. CGP is a type of *biomarker testing* or *tumor testing*.

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**Knowing what mutations and biomarkers you have can help your doctor choose the best medicine for you.**

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This approach to treatment is called *precision medicine* or *personalized medicine*, because it is based on your own unique genomic profile and cancer type.

# Treatments for cancer

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Common cancer treatments include surgery, radiation, and chemotherapy. Your doctor may also suggest targeted therapy or immunotherapy.

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## **Targeted therapy**

Targeted therapy may stop the growth of cancer cells by targeting certain mutations.

## **Immunotherapy**

Immunotherapy helps your body's own natural immune system find cancer cells and kill them.

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**By using comprehensive genomic profiling to identify the mutations and biomarkers in your cancer, your doctor can determine if a targeted therapy or immunotherapy may work, and which one to select for you.**

# **Biomarker testing and Foundation Medicine**

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Foundation Medicine is a company comprised of a dedicated group of scientists, doctors, and other highly trained and experienced professionals, committed to making precision medicine a reality for patients like you.

03

**We work closely with your doctor in offering biomarker testing through three different CGP tests, depending on what your doctor decides is best for you.**

#### THE TESTS ARE:

##### **FoundationOne®CDx**

- For solid tumor cancers like lung, colorectal, or breast cancer
- This test is performed on tissue

##### **FoundationOne®Liquid**


- Also for solid tumor cancers, but performed on blood
- This is called a liquid biopsy

##### **FoundationOne®Heme**

- For blood cancers like leukemia and lymphoma, and for sarcomas
- This test is performed on blood, bone marrow, or tissue

# **How the testing process works with Foundation Medicine**

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**You and your doctor talk about testing options together. Your doctor orders the appropriate Foundation Medicine test for you. Tissue or blood will be required, based on your case.**



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### **Tissue**


Foundation Medicine contacts the lab that has your tissue sample and coordinates to have it sent to our lab. The sample may be from a recent biopsy or it may be older. Your doctor may also send the sample directly.

If a tissue block was sent, we return it to the lab that sent it after testing is complete.




### **Blood**

Your doctor sends a blood sample to our lab. In certain circumstances we can arrange to have your blood drawn and sent (mobile phlebotomy).








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**We study the DNA\* in your sample to find mutations and other biomarkers that may indicate if a targeted therapy or immunotherapy might work for you.**



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**We send the results to your doctor in about 2 weeks.†**



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**You and your doctor talk about the results and how they may help with your treatment plan.**

\* FoundationOne Heme also analyzes RNA

† Typical turnaround time from receipt of specimen is <2 weeks.

# What the test results mean

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Foundation Medicine test results offer three possible options for you and your doctor to consider in your treatment.

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## Three possible options for you and your doctor to consider in your treatment:

### FDA-approved therapies

We identify approved targeted therapies or immunotherapies that may help you based on the mutations and biomarkers we found in your cancer. These therapies may have been approved for your cancer type or they may have been approved in other cancer types.

### Rule out therapies

We look at hundreds of important genes to help your doctor know which medicines may *not* work for you.

### Clinical trials

We match your results with medicines that are currently in development through clinical trials. Talk to your doctor about which clinical trials may be available and if you might qualify.

# Billing information

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**Your cost will depend on your insurance plan and any financial assistance that you might be eligible for.**



# Medicare

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For many patients with advanced cancer,  
FoundationOne CDx is covered by Medicare.

07

## If you are a Medicare patient and you meet the following criteria, you may not have out-of-pocket expenses for your FoundationOne CDx solid tumor testing:<sup>†§</sup>

### **One**

You have either recurrent, relapsed, refractory, metastatic, or advanced stages III or IV cancer

### **Two**

This is your first time having a FoundationOne CDx test for this cancer diagnosis OR you had a FoundationOne CDx test before, but this is a different type of cancer—a “new primary” cancer diagnosis

### **Three**

You have decided to seek further cancer treatment such as therapeutic chemotherapy

### **Four**

Your testing is ordered by a treating physician<sup>||</sup>

<sup>†</sup> In accordance with Centers for Medicare and Medicaid Services (CMS) Decision Memo for Next Generation Sequencing (NGS) for Medicare Beneficiaries with Advanced Cancer (CAG-00450N)

<sup>§</sup> Patients with Medicare Advantage Plans could have out-of-pocket expenses in the form of co-pay, co-insurance, and/or unmet deductible amounts.

<sup>||</sup> A “treating physician” is a physician, as defined in §1861(r) of the Social Security Act, who furnishes a consultation or treats a beneficiary for a specific medical problem, and who uses the results of a diagnostic test in the management of the beneficiary’s specific medical problem. More information is available at <https://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/Downloads/R80BP.pdf>

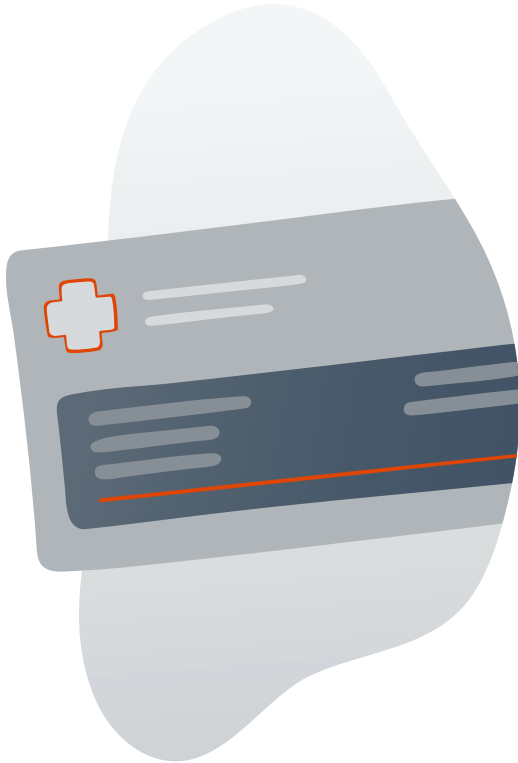
# Private insurance

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Foundation Medicine will work directly with your insurance company to try and obtain coverage.

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**Depending on the terms of your insurance plan, you may have financial responsibility for co-pay, co-insurance, or deductible as directed by your plan.**

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If your insurance company denies coverage, with your consent, we will work on your behalf to attempt to obtain coverage and will work with you and your doctor in pursuing appeals to minimize the financial burden. If you are eligible for financial assistance, this is applied to your out-of-pocket cost.

# Financial assistance

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If you are uninsured or cannot afford the out-of-pocket cost of testing, contact our Client Services team about eligibility for financial assistance. Financial assistance applies to your out-of-pocket cost for testing. Payment plans may also be available based on your financial situation.

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**To apply for financial assistance, please visit:**  
***[access.foundationmedicine.com](https://access.foundationmedicine.com)***



# Questions

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**We are here to help. If you have any questions about how Foundation Medicine testing could help you and your doctor, or you would like more information about the testing or billing process, please contact us.**

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**Call**

888.988.3639

**Email**

*care.team@foundationmedicine.com*

**Explore your options.  
Talk to your doctor  
about comprehensive  
genomic profiling.**







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