



FoundationOne®CDx Patient Report Guide

FoundationOne CDx is a test, ordered by your doctor, that looks for mutations and biomarkers in your cancer's DNA. The results of this test can help you and your doctor decide together on the next best step in your treatment plan. This report guide can help prepare you to review and discuss your test results with your doctor.

How to Use this Guide:

- Use this guide *after* your results are ready.
- You can request a copy of your FoundationOne CDx report by contacting our Client Services team at 888-988-3639 or emailing client.services@foundationmedicine.com.
- This guide will walk you through each section, focusing on the first two pages of your report, with numbers to call out different parts of the report.
- The report images in this guide are from a sample report, which can help you read your actual report. This guide does not contain your actual report.
- A GLOSSARY of key terms is included on the last page of this guide.

Report Page One



Companion Diagnostic (CDx) Associated Findings

The FoundationOne CDx test for solid tumors is an FDA-approved "companion diagnostic" (or "CDx") for corresponding FDA-approved therapies (see definitions in glossary at end). This first layer of results (CDx-associated findings) is listed on page one. The "genomic findings detected" column includes the name of the gene where the mutation was found (e.g., "PIK3CA") along with a description of that mutation (e.g., "E545K").

You and your doctor can discuss if any of the corresponding FDA-approved treatment options may be right for you.



Other Alterations & Biomarkers Identified

A second layer of results (beyond the CDx findings) are listed in this section. These findings, along with associated treatments, are described more on page two of the report.

What if there are no treatment options listed in the CDx section of my report?

This is not uncommon. If this applies for your report, you will see a gray box on this page stating "NO REPORTABLE ALTERATIONS WITH COMPANION DIAGNOSTIC (CDx) CLAIMS." There may be other treatment options on the following pages of your report, including FDA-approved therapies or clinical trials. Talk to your doctor about the treatment options in your full report.



PATIENT

TUMOR TYPE
Breast invasive ductal carcinoma (IDC)

REPORT DATE

ORDERED TEST #

DATIENT

DISEASE Breast invasive ductal carcinoma (IDC)

DATE OF BIRTH SEX MEDICAL RECORD # PHYSICIAN

ORDERING PHYSICIAN
MEDICAL FACILITY
ADDITIONAL RECIPIENT
MEDICAL FACILITY ID
PATHOLOGIST

SPECIME

SPECIMEN SITE
SPECIMEN ID
SPECIMEN TYPE
DATE OF COLLECTION
SPECIMEN RECEIVED

Companion Diagnostic (CDx) Associated Findings

PIK3CA E545K

GENOMIC FINDINGS DETECTED

FDA-APPROVED THERAPEUTIC OPTION:

Piqray® (Alpelisib)

OTHER ALTERATIONS & BIOMARKERS IDENTIFIED

Results reported in this section are not prescriptive or conclusive for labeled use of any specific therapeutic product. See *professional services* section for additional information.

Microsatellite status MS-Stable §
Tumor Mutational Burden 4 Muts/Mb §
BRCA2 P628fs*16

FANCG FANCG (NM_004629) rearrangement intron 11

MAP2K4 loss § **STAG2** splice site 2674-1G>C **STK11** F231L

TP53 C275F



ABOUT THE TEST FoundationOne®CDx is the first FDA-approved broad companion diagnostic for solid tumors.

Electronically signed by Julia A. Elvin, M.D., Ph.D. | 01 June 2021 Julia Elvin, M.D., Ph.D., Laboratory Director CLIA: 22D2027831 Shakiti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine, Inc. | 1.888.988.3639

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FDA APPROVED CLAIMS — PAGE 1

Report Page Two



Biomarker Findings

Microsatellite instability (MSI) and tumor mutational burden (TMB) are two biomarkers that can help your doctor understand what immunotherapy treatment options might be available for you.



Genomic Findings

This section shows the gene mutations that may be linked with treatment options, beyond the CDx findings on page one.



Report Highlights

This provides the highlights from your results, at a glance, to help your doctor focus on the key actionable results for treatment planning.



Therapies with Clinical Relevance

These are potential treatment options based on your genomic findings.

The therapies listed in the left column are FDA-approved for your cancer type. The therapies in the right column are FDA-approved for another cancer type. You and your doctor can discuss if any of these treatments may be right for you.



Clinical Trial Options

Your results may match with treatments that are currently being developed in clinical trials. A clinical trial could help you access some of the newest treatments in development. Talk to your doctor about available clinical trials you might qualify for.



The content provided as a professional service by Foundation Medicine, Inc., has not been reviewed or approved by the FDA

Electronically signed by Julia A. Elvin, M.D., Ph.D. | O1 June 2021

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PROFESSIONAL SERVICES — PAGE 1 0:

What if there are no treatment options listed in my report?

Even if the results do not identify a specific therapy or clinical trial for you, they can still provide valuable information to you and your doctor. They may identify treatments that are not appropriate for you based on your genomic findings, they may confirm your current treatment, or they may be useful in the future as additional treatments become available.

The Rest of the Report

Your report contains additional pages with detailed information that your doctor can use to better understand your findings. This report guide is focused on the first two pages to help you understand the basics of your report. Remember, page one of your report describes the CDx associated findings and page two describes a second layer of options beyond the CDx findings. Read on to see a glossary of key terms discussed in this guide.

Key Terms

Alterations

Changes in the DNA that can influence cancer growth (also called "mutations").

Biomarker

A marker found in blood or tissues that may provide your doctor with information about potential treatment options. For example, the status of certain biomarkers can predict response to immunotherapy.

Biomarker Findings

On your FoundationOne CDx report, the "Biomarker Findings" section includes the following biomarkers: microsatellite instability (MSI) and tumor mutational burden (TMB). A high level of either of these two biomarkers may indicate that you could benefit from immunotherapy. Please note, however, that in other contexts, "biomarkers" may also include gene mutations.

Biomarker Testing

You may also hear the testing referred to as genomic testing, tumor testing, molecular testing, next-generation sequencing (NGS), and genomic profiling. Biomarker testing is a general category of testing that looks for mutations in cancer genes to identify potential treatment options. Foundation Medicine performs a type of biomarker testing called comprehensive genomic profiling (CGP).

Cells

Basic units that make up your body.

Clinical Trial

A type of research study that tests how well new medical approaches work in people. These studies test new methods of screening, prevention, diagnosis, or treatment of a disease.

Companion Diagnostic (CDx)

A medical device which provides information essential for the safe and effective use of a corresponding therapy. The test helps doctors determine if a particular treatment's benefits to a patient will outweigh any potential risks.

Comprehensive Genomic Profiling (CGP)

A method of cancer testing that can find the mutations in your DNA that may be causing your cancer to grow. This is the type of testing performed by Foundation Medicine.

DNA

The molecules inside cells that carry genetic information and pass it from one generation to the next. DNA instructs cells how to grow and divide; DNA mutations may lead to cancer growth.

Food and Drug Administration (FDA)

The official US government agency responsible for review and approval of drugs and certain diagnostic tests to determine their safety and effectiveness for the intended use in patients.

Foundation Medicine

Company that performs biomarker/ genomic testing called comprehensive genomic profiling (CGP).

FoundationOne CDx

A next-generation sequencing test developed by Foundation Medicine that analyzes over 300 genes and biomarkers to identify potential treatment options for advanced cancer patients with solid tumors.

Genes

Segments of DNA. Genomic testing may find mutations in genes that can influence cancer growth.

Genomic Findings

Mutations identified in your cancer's DNA that may be matched with targeted treatment options.

Genomic Testing

You may also hear the testing referred to as biomarker testing, tumor testing, molecular testing, next-generation sequencing (NGS), and genomic profiling. Genomic testing is a general category of testing that looks for mutations in cancer genes to identify potential treatment options. Foundation Medicine performs a type of genomic testing called comprehensive genomic profiling (CGP).

Immunotherapy

A type of cancer treatment that helps the body's immune system attack cancer cells.

Microsatellite Instability (MSI)

A biomarker that may help predict benefit from immunotherapy. MSI refers to a type of instability in a tumor's DNA.

Mutations

Changes in the DNA that can influence cancer growth (also called "alterations").

Targeted Therapy

A type of cancer treatment that attacks cancer cells with specific gene mutations.

Tumor

A mass within the body caused by abnormal growth of cells.

Tumor Mutational Burden (TMB)

A biomarker that can be detected from your sample and that may help predict response to immunotherapy. TMB is a measure of the frequency of mutations in your DNA when performing FoundationOne CDx.

Tumor Type

The type of cancer (e.g., lung cancer, breast cancer, etc.).

FoundationOne CDx is for prescription use only and is a qualitative next-generation sequencing based in vitro diagnostic test for advanced cancer patients with solid tumors. It is intended to help identify patients who may benefit from treatments with certain therapies. Use does not guarantee a match to treatment or that all relevant alterations will be found. Some patients may require a biopsy, which could pose a risk. For full use and risk information: www.foundationmedicine.com/patients.

