Patient Guide: Understanding the Liquid Biopsy Report with Your Doctor

This FoundationOne Liquid CDx report guide will help you understand each section of your liquid biopsy report. Use this guide after your results are ready. Once you review the results with your doctor, together you can decide the next best step in your treatment plan.

Definitions of key terms are on the last page of this guide. PATIENT REPORT DATE FoundationOne Liquid CDx is an FDA-approved test for FOUNDATIONONE®LIQUID CDx Lung non-small cell lung carcinoma (NOS) all solid tumors that analyzes over 300 genes from a ORDERED TEST simple blood draw, called a liquid biopsy. PATIENT PHYSICIAN SPECIMEN DISEASE Lung non-small cell lung carcinoma (NOS) ORDERING PHYSICIAN report page one MEDICAL FACILITY SPECIMEN TYPE NAME DATE OF BIRTH ADDITIONAL RECIPIENT DATE OF COLLECTION MEDICAL FACILITY ID SPECIMEN RECEIVED MEDICAL RECORD # 0 Companion Diagnostic (CDx) Associated Findings **Genomic Findings Detected** FDA-APPROVED THERAPEUTIC OPTIONS If mutations are found in your blood sample, EGFR L858R IRESSA® (gefitinib) these mutations will be listed as "genomic TAGRISSO[®] (osimertinib) 2 findings detected" in the companion diagnostic TARCEVA® (erlotinib) section of your report. This section includes the name of the gene where the mutation Other Short Variants Identified was found (e.g., "EGFR") along with the Results reported in this section are not prescriptive or conclusive for labeled use of any specific therapeutic product description of the mutation within that gene See professional services section for information on the alterations listed in this section as well as any additional detected copy alterations, gene rearrangements, or biomarkers. (e.g., "exon 19 deletion"). OTHER BIOMARKERS WITH POTENTIAL CLINICAL SIGNIFICANCE 2 3 DNMT3A R736H # **PIK3CA H10470 FDA-Approved Therapeutic Options** # Refer to appendix for limitation statement relating to detection of alterations in ASXL1, ATM, CBL, CHEK2, DNMT3A, JAK2, KMT2D (MLL2), MPL, MYD88, SF3B1, TET2, TP53, and U2AF1. The test is an FDA-approved "companion diagnostic" (or "CDx") for certain treatments. Please refer to appendix for Explanation of Clinical Significance Classification and for variants of unknown significance (VUS). This means that the FDA has extensively reviewed and approved the test to be used to identify patients who may benefit from these treatments. This section lists treatment options linked with specific gene mutations found in your blood sample. Your doctor will determine if any of these treatments may be right for you. PE Inocarcinoma (CRC) FOUNDATIONONE*LIQUID CDx 3 ORDERED TEST **Other Alterations &** SPECIMEN **Biomarkers Identified** A list of additional genomic findings in the NO REPORTABLE ALTERATIONS WITH COMPANION DIAGNOSTIC (CDx) CLAIMS report are listed in this section. These findings, along with associated treatments, are described vant genomic alterations in circulating cell-free DNA ration: 150 Second St., 1st Floor, Cambridge, MA 02141 - CLIA: 22D20: nalysis: 150 Second St., 1st Floor, Cambridge, MA 02141 - CLIA: 22D20: nalysis: 150 Second St., 1st Floor. Cambridge, MA 02141 - CLIA: 22D20: in the following pages of the report. terations associated with companion diag testing, such as FoundationOne*CDx, if p 4 FDA APPROVED CLAIMS - PAGE 1 0 Other Short Variants Identified **No Reportable Alterations** with CDx Claims OTHER BIOMARKERS WITH POTE **ALK** A207T MAP2K4 splice It is possible that there are no treatment te 686-1G>A ASXL1 G646fs*12 MLL2 P2354fs*30 BRIP1 G1024R PIK3C2B R13570 options listed in this CDx section-this is not CDKB D189N CREBBP splice site 5172+2T>C CTNNB1 G34V EP300 P308fs*9 a K134fs*14 QKI K134fs*1 RACI A159V RET E901K SOX2 D158N uncommon and there may be other options on the following pages of your report. Talk to FLCN H429fs*39 TP53 R174G your doctor about the treatment options in GNAS R201H TP53 R175H TP53 E221G * IRF2 Q66* KRAS Q61H your full report.

n ASXL1, ATM, CBL, CHEK2, DNMT3A, JAK2, KMT2D (MLL2), MPL, MYD88, SF3B1, TET2,

Page two of your report contains additional biomarker and genomic findings and associated treatments that may be options for your doctor to consider for your treatment plan.

report page two

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Biomarker Findings

This section contains information about two biomarkers that may be linked to immunotherapy treatment options — microsatellite instability (MSI) and blood tumor mutational burden (bTMB). It also contains a measure of tumor fraction to show the concentration of tumor DNA that we found circulating in your blood sample.

6 Genomic Findings

This section shows the gene mutations found in your circulating-tumor DNA (ctDNA) that may be linked with treatment options.

7

Therapies with Clinical Benefit

These are potential treatment options that may be relevant for you based on your genomic findings.

The therapies listed in the middle column are FDA-approved for your cancer type. The therapies in the right column are FDA-approved for another cancer type. Your doctor will determine if any of these treatments may be right for you.

FOUNDATION ONE*LIQUID CD X	PATIENT TUMO Lung carci	non-small cell lung noma (NOS) NTRY CODE	REPORT DATE
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Your report contains additional pages with supporting information that your doctor can use to better understand your findings and their relevance to your cancer.

the rest of the report

Clinical Trial Options

When applicable, your results are matched with potential treatments that are currently being tested in clinical trials. Participating in a clinical trial could help you access some of the newest treatments in development. Talk to your doctor about which clinical trials may be available and if you qualify for them.

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

FOUNDATIONONE®LIQUID CDx

TUMOR TYPE Lung non-small cell lung carcinoma (NOS)

REPORT DATE

ORDERED TEST

gene EGFR

ALTERATION amplification, L858R TRANSCRIPT ID NM_005228 CODING SEQUENCE EFFECT 2573T>G

POTENTIAL TREATMENT STRATEGIES

EGFR activating mutations may predict sensitivity to EGFR TKIs, including erlotinib³⁶, geftinib³⁷, afatinib³⁷, docomitinib³⁷, and osimertinib³⁷. Selectively trager mutated EGFR, including EGFR T790M⁴⁰⁻⁴¹. Osimertinib achieved an ORR of 61% in T790M-9ositive cases and 21% in T790Mnegative cases⁴⁰. Resistance to EGFR inhibition may arise by reactivation of the MAPK pathway, and preclinical evidence suggests that co-carageting EGFR and MAPK signaling may retard the development of acquired resistance to thirdgeneration EGFR inhibitors⁴²⁻⁴⁴. EGFR amplification or expression may be associated with benefit from anti-EGFR antibodies, such as cetuximab⁴⁵⁻⁴⁸, panitumumab⁴⁶, or necitumumab⁴⁶, or EGFR TKIs shat target wildtype EGFR⁵⁰⁻⁵⁴. Necitumuma bis an anti-EGFR antibody that is approved to treat metastatic squamous NSCLC in combination with gemeitabine and cisplatin⁵⁵⁻⁵⁶ that has also shown benefit in patients with CRC and melanoma⁵⁷⁻³⁸. Irreversible EGFR inhibitors, as well as HSP60 inhibitors, may be approprinte for patients with denov or acquired resistance to EGFR targeted therapy⁵⁷⁴³. Preclinical studies have reported that EGFR-mutations³¹ are sensitive to HSP60 inhibitors for patients with EGFR consolved to treat metastatic Squamous NSCLC in combination with envo or acquired resistance to EGFR-targeted therapy⁵⁷⁴³. Preclinical studies have reported that EGFR-mutation LegfS⁴³, and consolved to the consolved therapy⁵⁷⁴³. Preclinical studies have reported that EGFR-mutation LegfS⁴³ are sensitive to HSP60 inhibitors.

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positive and T790M- negative NSCLC who had

FREQUENCY & PROGNOSIS

Amplification of EGRR has been variously reported in 4-42% of non-small cell lung carcinoma (NGCLC) samples⁵⁵⁻⁹⁹. EGRR mutation has been reported in 12-36% of lung adenocarcinomas^{56,96} and in 4% of lung squamous cell enricinomas⁶⁸. EGRR protein expression of vertexpression has been reported in up to 70% of NSCLC cases^{47,839,294}. In addition, expression of EGRP protein has been shown to be higher in lung squamous cell carcinoma samples as compared to lung adenocarcinom^{56,56}. In Jung adenocarcinoma, EGRR gene amplification was a predictor of poor disease-free survival in all patients and of poor overall survival in patients with EGRR mutations⁷⁹⁴. Nuclear expression of EGRR in NSCLC has been freported to associate with higher disease stage shorter progression-free survival, and shorter overall survival⁷⁹⁷. However, EGRR mutations, have been reported to predict improved survival in patients with resected Stage 1-3 lung adenocarcinom³⁰⁰ or resected Stage 1 NSCLC¹⁰.

FINDING SUMMARY

EGFR encodes the epidermal growth factor receptor, which belongs to a class of proteins called receptor tyrosine kinases. In response to signals from the environment, EGFR passes biochemical messages to the cell that stimulate it to grow and divide¹⁰². Amplification of EGFR has been associated with increased expression of EGFR mRNA and protein in several cancer types^{88,033104}. EGFR L858 is located in the kinase domain and is encoded by exon 21; mutations at this position including L858^{(KB)/631} and L858^(Q) have been characterized as activating. Patients with the L858R mutation have been shown to be sensitive to EGFR tyrosine kinase inhibitors, such as erlotinib, geftinih¹⁰⁵⁻¹⁰⁷, and afatinib¹⁰⁹. Other mutations at this position are predicted to be activating.

The content provided as a projessional service by boundation Medicine, Inc. has not been reviewed or approx Electronically signed by Daniel Ducan, M.D. J. Julia Elvin, M.D., Ph.D., Laboratory Director CLU-22D2027531 Shakil Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLI-34D2044309 Foundation Medicine, Inc. J. 188.98.83.639

Sample Preparation: 150 Second St., 1st Floor, Cambridge, MA 02141 - CLIA: 22D202753 Sample Analysis: 150 Second St., 1st Floor, Cambridge, MA 02141 - CLIA: 22D202753 Post-Sequencing Analysis: 150 Second St., 1st Floor. Cambridge, MA 02141 - CLIA: 22D202753

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Key Terms

Alterations

Changes in the DNA that can influence cancer growth (also referred to as "mutations").

Biomarker

A measurable characteristic within a cancer cell. The status of a biomarker may provide your doctor with information about potential treatment options.

Biomarker Findings

On your FoundationOne CDx report, the "Biomarker Findings" section includes the genomic signatures 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.

Blood Tumor Mutational Burden (bTMB)

A biomarker that can be detected from your blood sample and that may help predict response to immunotherapy. bTMB is a measure of the frequency of mutations in your circulating-tumor DNA (ctDNA).

Cells

Basic units that make up your body.

Circulating-tumor DNA (ctDNA)

DNA that has come from your tumor and can be found in your blood.

Clinical Trial

Process by which new potential treatments are studied and compared to existing treatment options.

Companion Diagnostic (CDx)

A diagnostic test required to determine the eligibility of a patient for the intended use of a corresponding treatment.

Comprehensive Genomic Profiling

A type of biomarker/genomic testing performed at Foundation Medicine.

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 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.

FoundationOne Liquid CDx

An FDA-approved companion diagnostic test developed by Foundation Medicine that analyzes genes and biomarkers detected in your blood to identify potential treatment options for advanced cancer patients with solid tumors.

Genes

Segments of DNA where mutations may be found with genomic testing.

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.

Immunotherapy

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

Liquid biopsy

This type of testing is performed on a blood sample instead of a tissue sample. It looks at DNA from your tumor that is circulating in your blood.

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 referred to as "alterations").

NCCN category

A designation from the National Comprehensive Cancer Network that helps your doctor decide if the treatment might be appropriate for you.

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 Fraction

An estimate of the percentage of DNA found in your blood sample that is tumor DNA.

Tumor type

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

FoundationOne Liquid 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. Patients who are negative for companion diagnostic mutations should be reflexed to tumor tissue testing and mutation status confirmed using an FDA-approved tumor tissue test if feasible. For full use and risk information: www.foundationmedicine.com/patients



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