

Our comprehensive genomic profiling revolves around your patient

FoundationOne®CDx is the first FDA-approved tissue-based comprehensive genomic profiling test. It provides guideline-recommended genomic results and has Medicare coverage for qualifying patients across all solid tumors.



- Targeted Therapy: Proven to help predict patient benefit across multiple targeted therapies in multiple cancer indications with over 20 companion diagnostic (CDx) claims
- Immunotherapy: Helps inform immunotherapy decisions by including genomic signatures such as microsatellite instability (MSI) and tumor mutational burden (TMB)
- Simplified Report: CDx results and associated therapies are highlighted upfront
- Coverage: National coverage for qualifying Medicare and Medicare Advantage patients across all solid tumors¹

Convenient, Broad Companion Diagnostic

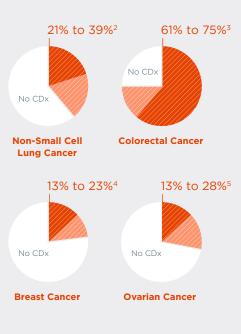
- Spare Tissue: Results from a single tissue sample identify multiple biomarkers to save time and tissue compared with sequential single-gene testing
- **Get Results Fast**: Typical turnaround time of 10 days or less from when we receive the tissue sample
- Stay Up to Date: Comprehensive platform that can be updated regularly as more genes and genomic signatures are indicated for use with FDA-approved therapies
- Save Time: Online ordering and status tracking available for your care team at www.foundationmedicine.com/flcdx

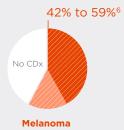
Comprehensive Approach to Find More Patients

- **Non-Small Cell Lung Cancer** (NSCLC): Single gene testing or limited panels have been shown to miss up to 35% of *ALK* fusions⁷ and 21% of *EGFR* mutations (41% of these missed *EGFR* mutations are common alterations targetable by an FDA-approved therapy in the applicable patient's tumor type).⁸
- Colorectal Cancer (CRC): Of the 6.4% of patients that harbor potentially resistant KRAS mutations outside of codons 12 and 13, 88% may not be identified by focused PCR-based testing methods as having such a KRAS mutation.⁹
- **Prostate**: By testing for all mutations, regardless of germline or somatic*, FoundationOne CDx can identify more than twice as many men who may benefit from PARP inhibitor therapy than conventional germline-only testing.¹⁰
- Breast: Analyze guideline recommended BRCA1/2, and PIK3CA, as well as additional clinically-relevant genes such as NTRK3, ESR1, and AKT1.



Clinically Actionable Results Published Cases of Identified Alterations with an Approved CDx





Companion Diagnostic Indications

| TUMOR TYPES | BIOMARKERS | FDA-APPROVED THERAPY |
|--|--|---|
| Non-Small Cell Lung Cancer (NSCLC) | EGFR exon 19 deletions and EGFR exon 21 L858R alterations | Gilotrif* (afatinib), Iressa* (gefitinib), Tagrisso* (osimertinib) or Tarceva* (erlotinib) |
| | EGFR exon 20 T790M alterations | Tagrisso* (osimertinib) |
| | ALK rearrangements | Alecensa® (alectinib), Xalkori® (crizotinib), or Zykadia® (ceritinib) |
| | BRAF V600E | Tafinlar® (dabrafenib) in combination with Mekinist® (trametinib) |
| | MET single nucleotide variants (SNVs) and indels that lead to MET exon 14 skipping | Tabrecta™ (capmatinib) |
| Melanoma | BRAF V600E | Tafinlar® (dabrafenib) or Zelboraf® (vemurafenib) |
| | BRAF V600E or V600K | Mekinist* (trametinib) or Cotellic* (cobimetinib) in combination with Zelboraf* (vemurafenib) |
| Breast Cancer | ERBB2 (HER2) amplification | Herceptin® (trastuzumab), Kadcyla® (ado-trastuzumab emtansine), or Perjeta® (pertuzumab) |
| | PIK3CA C420R, E542K, E545A, E545D [1635G>T only], E545G, E545K, Q546E, Q546R, H1047L, H1047R, and H1047Y alterations | Piqray* (alpelisib) |
| Colorectal Cancer (CRC) | KRAS wild-type (absence of mutations in codons 12 and 13) | Erbitux® (cetuximab) |
| | KRAS wild-type (absence of mutations in exons 2, 3 and 4) and NRAS wild-type (absence of mutations in exons 2, 3 and 4) | Vectibix® (panitumumab) |
| Ovarian Cancer | BRCA1/2 alterations | Lynparza® (olaparib) or Rubraca® (rucaparib) |
| Cholangiocarcinoma | FGFR2 fusions and select rearrangements | Pemazyre™ (pemigatinib) |
| Prostate Cancer | Homologous Recombination Repair (HRR) gene (BRCA1, BRCA2, ATM, BARD1, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, RAD51B, RAD51C, RAD51D and RAD54L) alterations | Lynparza* (olaparib) |
| Solid Tumors | TMB ≥ 10 mutations per megabase | Keytruda® (pembrolizumab) |
| | NTRK1/2/3 fusions | Vitrakvi* (larotrectinib) |

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To order a test, go to www.foundationmedicine.com/order

References

1. Medicare and Medicare Advantage members have coverage of FoundationOne CDx in accordance with the Centers for Medicare and Medicaid Services (CMS) national coverage determination (NCD) criteria. 2. VanderLaan et al., 2018; 29413057, Kris et al., 2014; 24846037, D'Angelo et al., 2011; 21482987, Esteban et al., 2015; 25766256, Han et al., 2017; 29110846. Barlesi et al., 2016; 26777916, Hata et al., 2013; 24105277, Tanaka et al., 2017; 28978102, Sequist et al., 2011; 21430269, Oxnard et al., 2011; 21135146, Paik et al., 2011; 21480312. 3. Roth et al., 2010; 20008640, Amado et al., 2008; 18316791, Douillard et al., 2013; 24024839, Heinemann et al., 2014; 25088940, Price et al., 2015; 25742472, De Roock et al., 2010; 20619739, Vaughn et al., 2011; 21305640, Peeters et al., 2013; 23325582. 4. Cancer Genome Atlas Network et al., 2012; 23000897, Owens et al., 2004; 15140287, Chmielecki et al., 2014; 25480824, Bartlett et al., 2001; 11745673. 5. Yang et al., 2011; 21990299, Cancer Genome Atlas Research Network., 2011; 21720365, Zhang et al., 2011; 21324516, Pennington et al., 2013; 24240112. 6. Greaves et al., 2013; 23273605, Hodis et al., 2012; 22817889, Menzies et al., 2012; 22535154, Colombino et al., 2012; 22614978, Long et al., 2011; 21343559. 7. Ali SM, et al. Comprehensive genomic profiling identifies a subset of crizotinib-responsive ALK-rearranged non-small cell lung cancer not detected by FISH. The Oncologist. 2016 Jun;21(6):762-770. 8. Suh J, et al. Hybrid Capture-Based Comprehensive Genomic Profiling Identifies Lung Cancer Patients with Well-Characterized Sensitizing Epidermal Growth Factor Receptor Point Mutations That Were Not Detected by Standard of Care Testing. The Oncologist. 2018;23:776-781. 9. Rankin A, Klempner SJ, Erlich R, et al. Broad Detection of Alterations Predicted to Confer Lack of Benefit From EGFR Antibodies or Sensitivity to Targeted Therapy in Advanced Colorectal Cancer. The Oncologist. 2016. 10. J Chung et al Prospective Comprehensive Genomic Profiling of Primary and Metastatic Prost

FoundationOne®CDx is a qualitative next-generation sequencing based *in vitro* diagnostic test for advanced cancer patients with solid tumors and is for prescription use only. The test analyzes 324 genes as well as genomic signatures including microsatellite instability (MSI) and tumor mutational burden (TMB) and is a companion diagnostic to identify patients who may benefit from treatment with specific therapies in accordance with the approved therapeutic product labeling. Additional genomic findings may be reported and are not prescriptive or conclusive for labeled use of any specific therapeutic product. Use of the test does not guarantee a patient will be matched to a treatment. A negative result does not rule out the presence of an alteration. Some patients may require a biopsy. For the complete label, including companion diagnostic indications and important risk information, please visit www.FICDxLabel.com.

