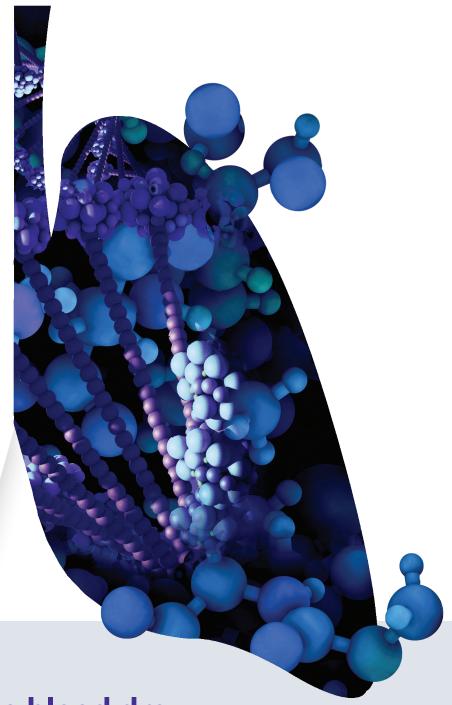


Providing
biological information
to support personalized
treatment decisions for
patients, faster.



A simple blood draw can optimize lung cancer treatment strategies regardless of stage



#### THE CHALLENGE:

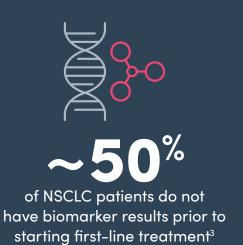
## Delayed time to treatment and a lack of biomarker information



26
days is the average time from diagnosis to molecular testing results<sup>1</sup>



of NSCLC patients
have insufficient tissue for
molecular testing<sup>2</sup>



### PATIENT IMPACT:

Starting first-line treatment without biomarker results may lead to worse outcomes

#### RISK OF TREATMENT INITIATION WITHOUT MOLECULAR RESULTS 4.5



Patients with actionable mutations have a lower response rate to targeted therapy if they receive first-line immunotherapy



Potential to miss out on rare mutation clinical trials that have treatment naïve enrollment criteria



55% of patients with high PD–L1 expression do not respond to single agent immunotherapy

#### A SOLUTION:

# Additional information to optimize personalized treatment decisions for patients, faster



#### **IQLung Treatment Guidance Testing**

From a simple blood draw, IQLung Testing provides pivotal information with an unmatched turnaround time. Coupled with a multidisciplinary strategy, get treatment relevant information for your patients, faster.



Patients have the best chance to fight cancer when they receive personalized therapy from the very beginning<sup>6</sup>

#### 3 TESTS FOR EARLY THROUGH ADVANCED NSCLC





The GeneStrat targeted genomic test identifies actionable tumor mutations in early and advanced stage NSCLC patients



The GeneStrat NGS genomic test identifies actionable tumor mutations in advanced stage NSCLC patients



The VeriStrat proteomic test identifies a patient's immune response to cancer across stages



GeneStrat Combined Variants<sup>7</sup>:

91% Clinical Sensitivity

100% Clinical Specificity

**97**% Tissue Concordance

- Not restricted by stage of NSCLC or recurrence
- Multiple tests per patient per cancer when medically necessary

The **GeneStrat targeted** test evaluates the presence of actionable mutations in NSCLC. These mutations inform eligibility for adjuvant targeted therapy or clinical trial enrollment for early stage NSCLC patients.

Test	Variant
EGFR Sensitizing	Exon 19 ΔΕ746-A750
	Exon 21 L858R
	Exon 18 G719A, G719C, G719S   Exon 20 S768I   Exon 21 L861Q
EGFR Resistance	Exon T790M
ALK Fusion	EML4
KRAS Mutations	G12C
	G12D
	G12V
BRAF Mutation	V600F

## • genestrat NGS° genomic test

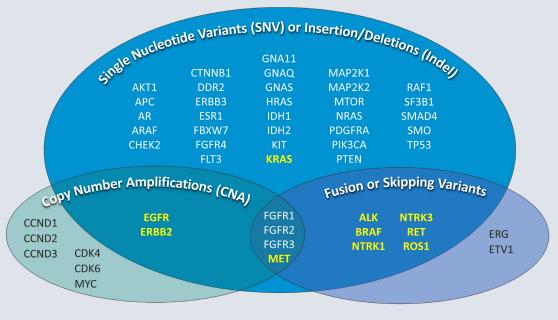
The **GeneStrat NGS** test is a broad 52 gene panel, including guideline recommended mutations that help identify advanced stage patients eligible for targeted therapy or clinical trial enrollment.



Mellert, H. et al. largeted Next-Generation Sequencing of Liquid Biopsy Samples from Patients with NSCLC. *Diagnostics*, 2021; 11(2):155.



Audetat, A. et al. Analytic and Clinical Validation of a Pan–Cancer NGS Liquid Biopsy Test for the Detection of CNAs, Fusions and Exon Skipping Variants. *Diagnostics*, 2022; Mar 17;12(3):729.



NOTE: Yellow represents genes with guideline recommended mutations for advanced stage NSCLC

## veristrat\* proteomic test

The VeriStrat immune profiling test is a novel predictive and prognostic blood-based host immune classifier that is independent of ECOG performance status, mutation status, PD-L1 expression, treatment choice, and line of therapy.

## Median Overall Survival of Patients with Advanced Stage NSCLC [>50% PD-L1, and ECOG PS 0-1 receiving immunotherapy (ICI)]

	ICI MONOTHERAPY	ICI + CHEMOTHERAPY
VeriStrat Good (HIC-Hot)	Not Reached (n=40)	Not Reached (n=22)
VeriStrat Poor (HIC-Cold)	<b>2.6 months</b> (n=18)	Not Reached (n=11)

Published data on the VeriStrat test shows that patients with high PD-L1 expression and a classification of VeriStrat Poor had superior median overall survival when receiving ICI plus chemotherapy vs. ICI alone (not reached\* vs. 2.6 months, respectively).8

#### IQLUNG TESTING WORKFLOW

## A simple blood draw can optimize lung cancer treatment strategies at any stage





Test Request Form submitted with clinical information

#### **Early Stage NSCLC**

## • genestrat genomic test

#### **MUTATION** +

Identifies patients that may benefit from adjuvant targeted therapy

#### **MUTATION** -

consider targeted tissue-based testing vant

## veristrat

#### **VS POOR**

Identifies patients that may benefit from enhanced surveillance or additional treatment

#### **VS GOOD**

Consider adjuvant therapy based on pretreatment evaluation and surgical findings

#### Advanced Stage NSCLC

(or Metastatic, Recurrent, Refractory or Relapse)



#### **MUTATION** +

Identifies patients that may benefit from targeted therapy or clinical trial enrollment

#### **MUTATION** -

Consider tissue-based NGS or targeted testing



#### **VS POOR**

Identifies patients that may benefit from immunotherapy combinations or chemotherapy

#### **VS GOOD**

Consider immunotherapy regimen based on PD-L1 expression

<sup>\*</sup>Median overall survival not reached at 18 months



Our powerful combination of genomic and proteomic testing reveals a broader view of each patient's disease state

AT PROGRESSION

• For longitudinal monitoring of resistance

mutations and changes in disease state

• At oncology visit for lung cancer progression

#### WHEN DO I ORDER IQLUNG TESTING?

#### **AT DIAGNOSIS**

- At time of biopsy or surgery
- Upon confirmed lung cancer diagnosis
- At the first oncology visit

#### WHO IS ELIGIBLE FOR TESTING?









**OF THERAPY** 

**ALL HISTOLOGIES** 

GeneStrat targeted, GeneStrat NGS, and VeriStrat tests are covered by Medicare and many private payers

### **Clinical Questions?**

Speak with our Medical Affairs Team

#### TIME IS ON YOUR SIDE

3 business days to results

DIAGNOSIS	TREATMENT
Pulmonologist	Medical Oncologist or Thoracic Surgeon
IQLung Testing  Blood 3 D	Results AYS
On-Market Blood-Based NGS Tests	Blood Results 7–14 DAYS¹
On-Market Tissue-Based NGS Tests	Tissue Results 7–26 DAYS¹

## **Resources and Support**



#### **SPECIMEN COLLECTION SUPPORT**

We offer convenient sample collection through **our network** of certified phlebotomists at local laboratory locations or from the comfort of your patient's home.



#### MANAGED CARE AND REIMBURSEMENT

We develop and publish scientific data to support an evidencebased approach to care. We work directly with health plans to ensure all patients have access to our services.



#### FINANCIAL SUPPORT PROGRAM FOR PATIENTS

We are committed to making Biodesix testing available to all patients. The Biodesix Assist Financial Support Program™ is available to all patients. Patients may apply to pre-qualify for financial assistance at any point, including before the test is performed.

- on, I. et al. Detection of Therapeutically Targetable Driver and Resistance Mutations in Lung Cancer Patients by Next-Generation Sequencing of
- Robert, N.J. et al. Biomarker testing and tissue journey among patients with metastatic NSCLC receiving first-line therapy in The US Oncology Network
- 4. Calles, A. et al. Checkpoint Blockade in Lung Cancer With Driver Mutation: Choose the Road Wisely. ASCO Educational Book, 2020; 40, 372-384.
- 5. Reck, M. et al. Pembrolizumab vs. Chemo for PD-L1-Positive NSCLC. The New England Journal of Medicine, 2016; 375:1823-1833.
- 7. Mellert, H. et al. Development and Clinical Utility of a Blood-Based Test Service for the Rapid Identification of Actionable Mutations in Non-Small Cell Lung Carcinoma. The Journal of Molecular Diagnostics, 2017; May;19(3):404-416
- for ImmunoTherapy of Cancer, 2021; 9:e002989.



PLEASE CONTACT BIODESIX CUSTOMER CARE TO ORDER TEST KITS AND RECEIVE ACCESS TO THE ONLINE BIODESIX PHYSICIAN PORTAL



Call: 1.866.432.5930

#### Visit: biodesix.com/order-a-test

Complete your IQLung Testing order using the Blood Specimen Collection Kit and enclosed IQLung Test Request Form.

IQLung Testing is performed in a CLIA/CAP accredited, NYS CLEP approved, and ISO 13485:2016 certified clinical laboratory in Louisville, Colorado.

919 W Dillon Road Louisville, CO 80027

## **IQLung Testing Can Help You:**

- Expedite the time to personalized treatment for each patient
- Drive optimal treatment decisions with genomic and proteomic insights
- ☑ Enhance existing workflows with a simple blood draw

## Biodesix Products Across the Lung Cancer Continuum of Care







Identify
likely malignant
nodules



Identify **actionable tumor mutations** in early stage NSCLC



Identify
likely benign
nodules



Identify **actionable tumor mutations** in advanced stage NSCLC



Identify a patient's immune response to cancer

Nodify Lung Testing and IQLung Testing Support Clinical Decision–Making in Lung Cancer

