

What Employers Need to Know About Biomarker Testing

# Oncology Spend Has Doubled Since 2013 and Is Expected to Reach \$240B by 2023

Expected Annual Spend in Oncology in 2023



of growth in spending is attributed to the launch of new medicines



**\$240B** 

US spending on oncology more than doubled from 2013-2019



of employer healthcare spend is on cancer treatment costs and growing

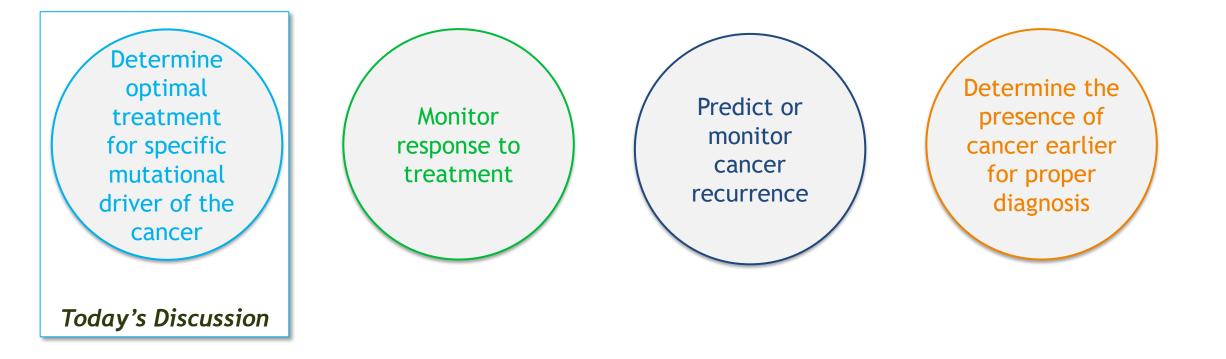
The Right Testing Can Ensure Patients Are Started on The Right Treatment at the Right Time And Eliminate Waste

IQVIA Institute Report. "Global Oncology Trends 2019," May 2019. <u>Link</u> Northeast Business Group on Health. Cancer and the Workplace. Created October 2015. Accessed January 27, 2021. <u>Link</u>



#### Determining A Treatment for A Specific Cancer Type Is One of Many Uses of Biomarker Testing

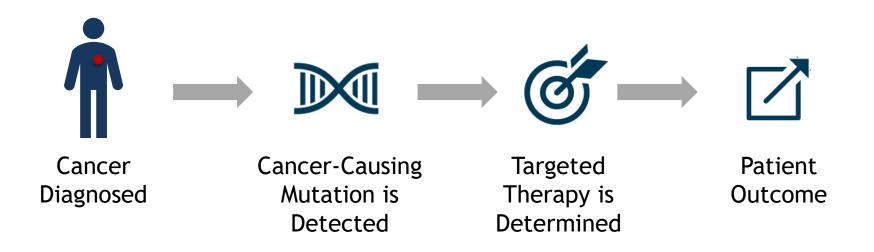
**Biomarker testing** provides value to patients by measuring the presence or absence of a disease or condition to better determine the best path forward for the patient





### Biomarker Testing Is Helping Cancer Care Evolve From Treating Based on Site of Cancer to Treating Based on Cancer Mutation

The Pathway of Biomarker Testing /



Access to biomarker testing can help physicians and patients select the correct pathway of treatment and ensure the patient gets the right drug at the right time while saving money and providing better outcomes



#### Biomarker Tests Can Be Done Through Various Methods And **Cover Different Numbers of Gene Mutations**

#### **Types of Biomarker Tests** Comprehensive A test of many or all of the patient's genes at once, which can Genomic Profiling detect many mutations or genetic alterations. **Limited Panel** A method of testing for multiple clinically relevant biomarkers at Testing once (e.g., ~5 mutations) Single Gene

A tool to identify alterations to a single point or change, related to a single targeted therapy

FDA. Precision Medicine. Available here. Dana-Farber Cancer Institute. What is a Biomarker? 2018. Available here. Foundation Medicine. What is Comprehensive Genomic Profiling. Available here.

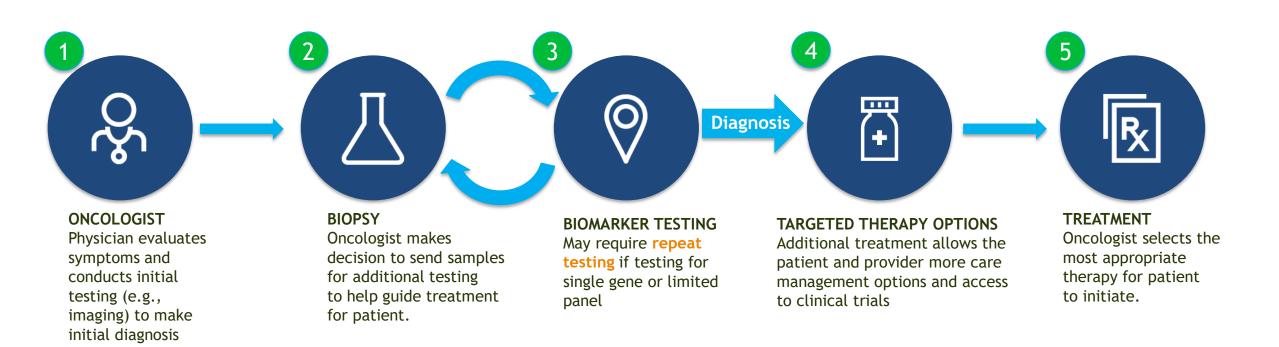
Testing





## Impact of Biomarker Testing on Patient Care

### Targeted Treatment Start Requires Characterization of Tumor and May Need Several Tests If Testing for Single Genes



Darthmouth-Hitchcock Norris Cotton Cancer Center. Our Comprehensive Approach: A Typical Patient Journey. https://cancer.dartmouth.edu/breast/breast-patient-journey.html. Accessed September 14, 2018. Available <u>here</u>.



### Single Gene Tests and Small Panels Can Have Considerable Limitations Leading To Inefficiency and Missed Mutations

Single-Gene testing looks for mutational changes within <u>one single gene</u> to detect cancer, but have considerable limitations with can lead to:

Inconclusive Results	Incomplete Information	Extra Procedures
<ul> <li>Requires additional testing</li> <li>Delays diagnosis</li> <li>Delays treatment start</li> </ul>	Increases potential for missed mutations Results in potential use of wrong therapy	<ul> <li>Risk of Re-Biopsy as multiple tests exhaust tumor tissue<sup>(1)</sup></li> </ul>

## A panel of several clinically appropriate tests or CGP can test for many different things at once, avoiding many of these issues

(1): Tissue insufficiency is an ongoing issue, and many insurers currently will only pay for blood sample biopsy if solid tissue is insufficient.

CDC. Genetic Testing. Available here.

#### National Cancer Treatment Alliance™

### Comprehensive Genomic Profiling (CGP) Can Provide More Patient Insights and Improve Patient Outcomes

Access to CGP, when indicated, can improve the outcomes of patients in multiple ways, including:

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	Patient Centric Care	Reduced Toxicity	Improved Quality of life	Access to new Information	Reduced Overall Cost	
	Biomarker testing helps physicians form deeper insight into a patient's condition so they can determine the best individualized care plan <u>sooner</u> , as well as open up new treatment options.	Targeted therapies may present fewer and less severe side effects vs. traditional drugs. Potential for reduced emergency room visit and inpatient admission due to toxicity.	Patients are spared unnecessary procedure or prescriptions. Decrease loss associated with absenteeism and presenteeism.	Ability to appropriately counsel patients regarding the availability of clinical trials.	Spending money up- front on a CGP test can save money in the long run by reducing spend on inappropriate/ ineffective treatments.	

CGP: Comprehensive Genomic Profiling

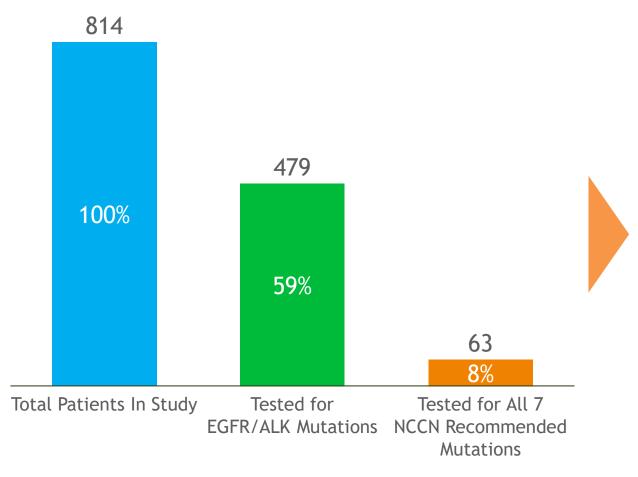
Ginsburg GS, Phillips KA. Precision Medicine: From Science To Value. Health Aff (Millwood).

2018;37(5):694-701. Available <u>here</u>.



### Despite the Known Benefits, Evidence-Based Biomarker Testing is Not Performed Routinely

Guideline Adherence for Biomarker Testing in Advanced NSCLC in the Community Setting<sup>1</sup>



- Effective implementation of precision medicine in oncology relies on biomarker testing that is inclusive of all-guideline recommended mutations.
- In a study of advanced Lung cancer in the community setting, only 8% of patents received testing for all genes recommended by NCCN guidelines
- Lack of guideline-recommended testing likely results in patients erroneously offered ineffective and expensive therapies

nal Cancer Treatment Alliance™



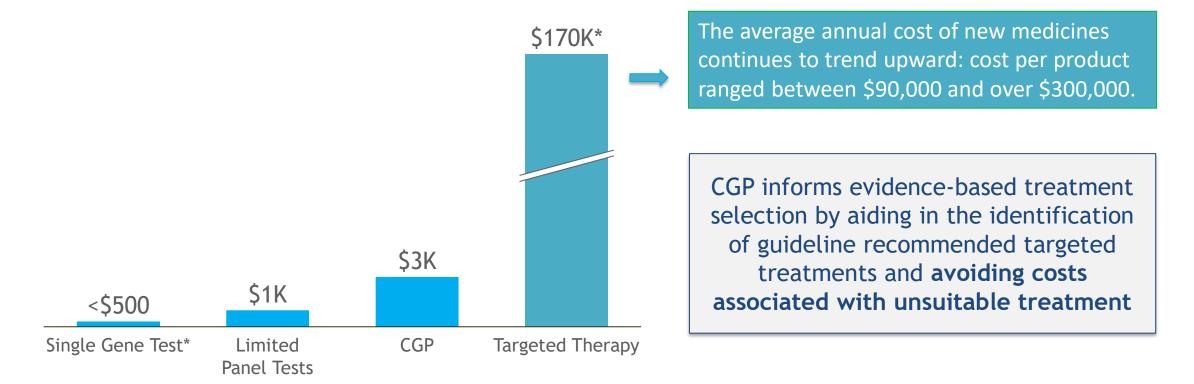
<sup>1</sup>Gutierrez ME. Clinical Lung Cancer. 2017:18(6):651-659.



## Benefit Design & Coverage Considerations

#### While More Expensive Than Single Gene/Limited Panel Tests, CGP Provides Better Insights to Guide Cancer Treatments

Average Cost per Test Type vs. Average-Annual Cost for Targeted Therapy



\*Single Gene Test Cost: Medicare rate for EGFR, CPT code 81235; \*The average annual cost of new medicines continues to trend upward: cost per product ranged between \$90,000 and over \$300,000. (IQIVA Report). \*\$3K is the approximate Medicare rate for next generation sequencing CPT code 81455 CGP: Comprehensive Genomic Profiling IQVIA. Global Oncology Trends 2019. Created May 2019. Accessed July 28, 2021. Available <u>here</u>. CMS. Clinical Laboratory Fee Schedule Files. Q3 2021. Available here.



### Health Plan and Employer Priorities are Often But Not Always Aligned; Greater Employer Involvement Is Critical

#### **Effective Application of Precision Medicine Starts with Access**



## Employers Should Talk to Their Health Plans To Understand:

- The health plan's biomarker testing policies
- What the plan is doing to ensure coverage for comprehensive tests that comply to medical guidelines for all recommended biomarkers
- Why they are not covering certain FDA approved products
- How to improve coverage for tests that can offer eligibility to clinical trials
- Understand what the plan is doing to reduce start of treatment delays



### Employers Should Consider Factors Guiding Key Stakeholders When Designing Cancer Biomarker Testing Benefits

#### **Factors Guiding Key Stakeholders**

	American Cancer Society Cancer Action Network	CMS National Coverage Decision	Leading Oncology Guidelines/Drug Compendia	Health Technology Assessment Organizations
TEST/PANEL SIZE [breadth of genes to support precision medicine decision making and alignment with NCCN Guidelines]	~		$\checkmark$	~
<b>TEST QUALITY</b> [FDA approval and/or validation data]	$\checkmark$	~	$\checkmark$	$\checkmark$
<b>COMPANION DIAGNOSTIC STATUS</b> [FDA-approved to inform use of specific targeted therapies]	$\checkmark$	~	$\checkmark$	~
CLINICAL TRIAL MATCHING [ability to identify patient eligibility for clinical trials]			$\checkmark$	





## **Employer Toolkit**

**Employer Toolkit Overview** 

#### **Employer Toolkit Objectives:**

• NCTA has created an "Employer Toolkit"





#### **Employer Checklist**

• Purpose: Checklist/action steps to empower employers to assess current coverage and inform the benefit coverage policy

#### Example of Checklist Questions

- Does my policy cover all tests that are FDA-approved as a companion diagnostic to match patients to all FDA-approved targeted therapies and immunotherapies?
- 2 Does my policy cover tests which include all guideline-recommended genes in any given tumor type?
- 3 Does my policy cover tests inclusive of all genes which could indicate potential resistance to an FDA-approved therapy?
- 4 What is my plan doing to reduce delays in getting patient started on treatments?
- 5 Does my policy cover clinical trials? Would the plan consider covering them?







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