## **Engaging Patients in Their** Biomarker Testing

**Andrew Ciupek, PhD GO<sub>2</sub>** Foundation for Lung Cancer **USA** 



Ignore No One.

### **DISCLOSURES**

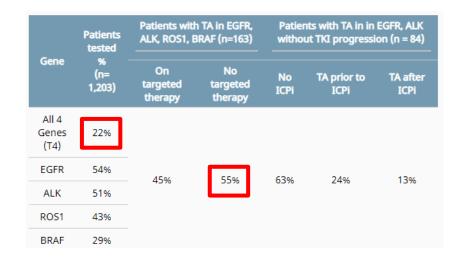
Commercial Interest	Relationship(s)
Novartis	Consultant, Advisory Board
Daiichi Sankyo	Advisory Board
AstraZeneca	Advisory Board
GRAIL, Inc.	Consultant

## **Gaps In Biomarker Testing Persist**

Table 2 Guideline Adherence for Genomic Testing		
Variable	n (%)	
Total patients	814 (100)	
Tested for EGFR/ALK	479 (59)	
Tested for all 7 NCCN recommended mutations	63 (8)	
Patients aged ≥65 y	464 (100)	
Tested for EGFR/ALK	272 (59)	
Tested for all 7 NCCN recommended mutations	31 (7)	

Abbreviations: ALK = anaplastic lymphoma kinase; EGFR = epidermal growth factor receptor; NCCN = National Comprehensive Cancer Network.

Guitierrez et al. Clinical Lung Cancer 2017

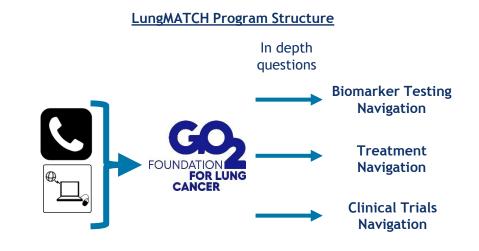


Gierman et al. Clinical Lung Cancer 2019

Engaging patients in their own biomarker testing process may be part of a comprehensive strategy to address gaps

## Patients Are Seeking Biomarker Navigation Help

- Approximately 15% of GO<sub>2</sub> support calls were primarily for biomarker testing questions in 2020
- Approximately 19% of NSCLC callers had not received testing or did not know



## **Patient Groups Are Taking Action**











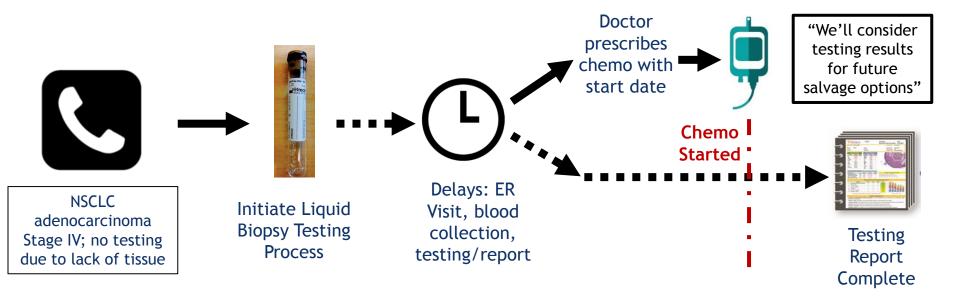




# What are the barriers for patients trying to engage in the testing process?

What are patients telling us?

## "Tim" - Barriers in Care Coordination/Timing



### **Access Barriers: Direct and Indirect**



#### Financial Impact of Testing Itself

- Increasing coverage of approved comprehensive testing panels has greatly increased access
- Coverage of newer technologies not always universal

#### "Mary" - Cost of procedures required for testing

- Stage IV NSCLC adenocarcinoma with no testing - Started testing process
- Declined to go forward cost of new biopsy for testing is too much

## "Paul" - Patient Understanding and Empowerment Barriers

- NSCLC adenocarcinoma Stage IIIB newly progressed to stage IV
- · No testing was discussed



Confusion about stopping maintenance therapy and change in diagnosis

Unsure if testing being performed or how the process was going - unable to confirm with doctors office

"I don't want to upset the doctor with all these questions"

"I think the doctor is mad at me"

# What are some solutions to empower patients to be a partner in the process?

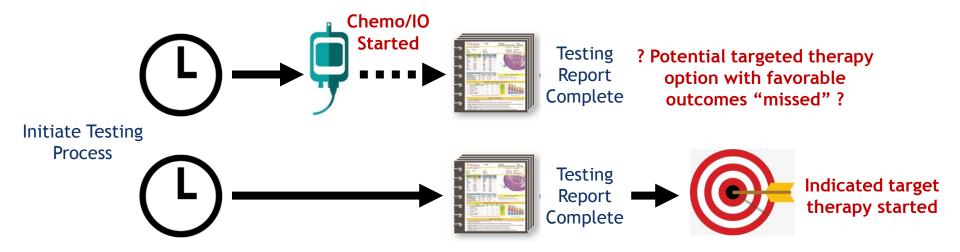
### **Patient Education**

- Patients who understand the "why" of biomarker testing can be active partners in the process
- Everyday clinical discussions and formal educational programs can play a role





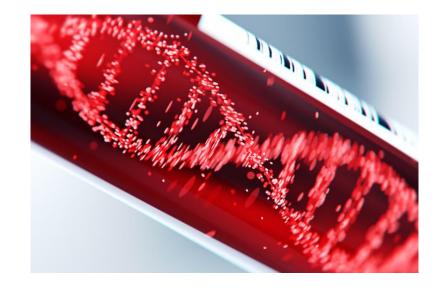
## Communication during testing process: Timing



Clear communication about the "how" of biomarker testing and the "need to wait" can help patient understanding

## Communication during testing process: Method

- Patient questions regarding testing using liquid biopsy vs. tissue biopsy are common in our support programs
- Clear communication about the uses and selection of a chosen testing method can improve patient understanding



## **Return Biomarker Testing Results to Patients**

#### Viewpoint

October 24, 2019

# Improving Molecular Oncology by Making Results Available to Patients

Geoffrey R. Oxnard, MD<sup>1</sup>; Howard (Jack) West, MD<sup>2</sup>; Jennifer C. King, PhD<sup>3</sup>

Author Affiliations

JAMA Oncol. 2019;5(12):1689-1690. doi:10.1001/jamaoncol.2019.4390

"Patients can then serve as reliable stewards of their critical results, a step that would all but guarantee that patients with driver mutations receive the targeted therapies that are most likely to confer the greatest clinical benefit."

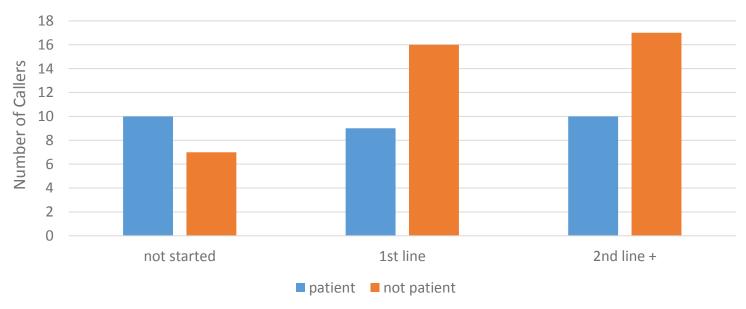
## **Patient Friendly Communication of Results**

A patient summary of testing results could enhance understanding when:

- Provided to both clinician and patient
- Short length; accessible language
- Point to key approved treatment options
- Indicate key negative results

## Don't forget the role of the caregiver!

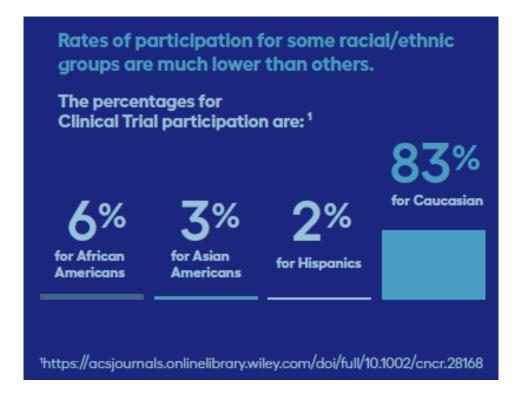
Who was the information seeker in LungMATCH?



## Let the Patient Voice Inform Testing Solutions

- Biomarker testing reports should be developed with patient input
- Patients should be included as advisors on discussions related to biomarker testing efforts
- Support initiatives to develop patient research advocates

## **Engaging with Diverse Populations**



## **Take Home Message**

Patients empowered to take active part in their own care can be valuable partners in the efforts to close biomarker testing gaps