



# Willingness to Perform Multiple Biopsies to Improve Quality of Lung Cancer Care: **Understanding the Oncologist Perspective**

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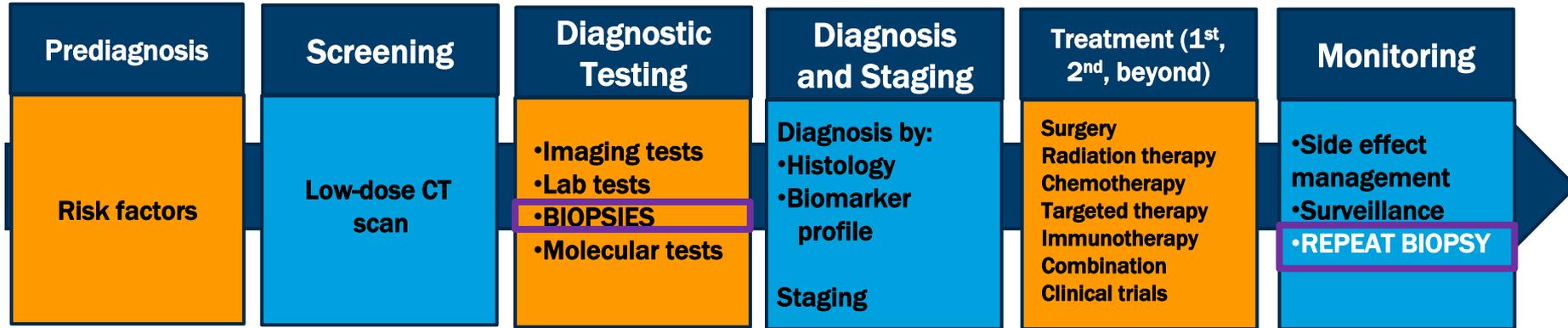




# **I HAVE NOTHING TO DISCLOSE**

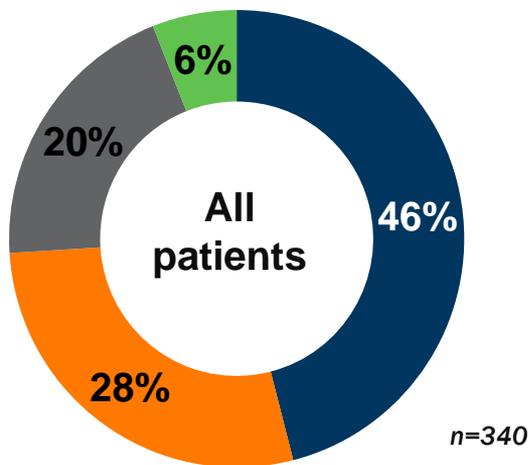
**The study was funded by Astra Zeneca**

# TREATMENT JOURNEY OF A LUNG CANCER PATIENT



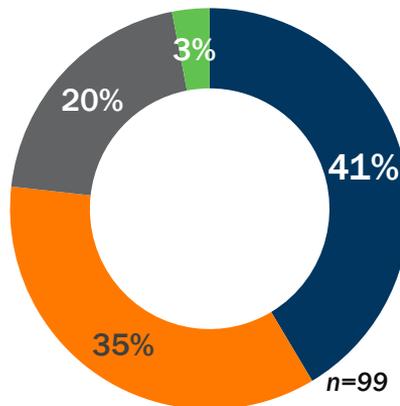
- A 2<sup>nd</sup> - line (or subsequent) treatment option
- A clinical trial for a targetable mutation
- Mechanisms of resistance

# ARE PATIENTS WILLING TO UNDERGO REPEAT BIOPSIES?

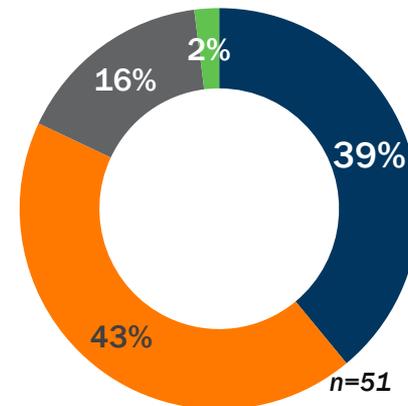


■ Yes, definitely   ■ Yes, probably   ■ Unsure/might or might not   ■ Probably/Definitely not

Among the **43%** who experienced a painful biopsy:



Among the **22%** who experienced complications:



Patients are willing to undergo additional biopsies, even when they had an initial painful biopsy or a complication

# IS THERE VARIATION IN REPEAT BIOPSY PATTERNS AMONG ONCOLOGISTS?

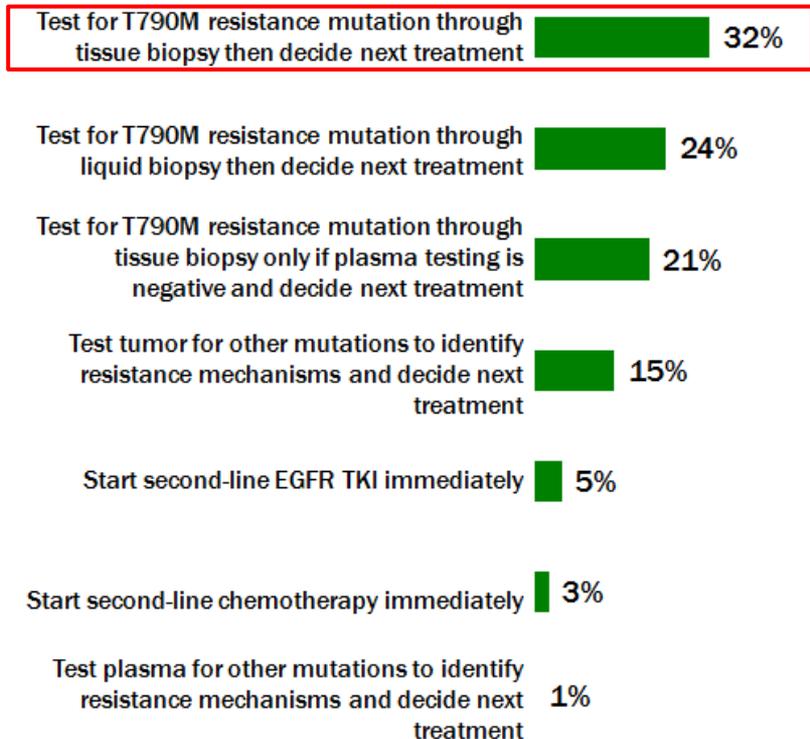
**130 oncologists** (academic research centers, NCI-designated cancer centers, community cancer centers) were surveyed

Patient Volume (annual)	Likelihood of being rebiopsied
1-49	84%
59-99	86%
100+	100%
Advanced-stage patient volume (annual)	Likelihood of being rebiopsied
50% or less	78%
51% - 75%	98%
76% - 100%	91%

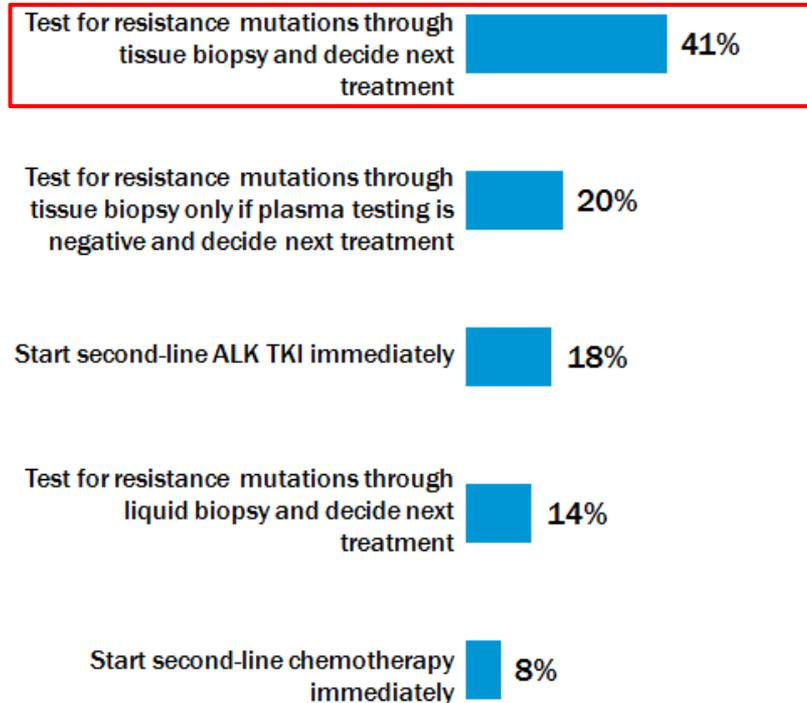
Practice Setting	Likelihood of being rebiopsied
Community CC	8 times less likely
NCI-designated CC	10 times more likely
Type of biomarker tested	Likelihood of being rebiopsied
Biomarker with approved drug	95%
PD-L1	86%
Biomarkers of resistance	85%
Biomarker for drugs in trials	43%

# HOW ARE ONCOLOGISTS USING REPEAT BIOPSY RESULTS FOR TREATMENT DECISIONS?

## EGFR-Positive Patients



## ALK-Positive Patients



# CONCLUSIONS

- There is a **wide variation** in repeat biopsy patterns (influenced by different factors such as practice settings, patient volume, etc.)
- Even when repeat biopsies are performed, **a comprehensive biomarker profile may not be obtained**, especially for markers in clinical development
- There is **no clear consensus on the use of repeat biopsy results**  
--> Variation may be due to practice setting

*When in doubt, rebiopsy!*