

## When to use Liquid Biopsy?

- ❶ Patients under treatment to monitor therapy response and drug resistance
- ❷ Patients whose tumor is inaccessible
- ❸ Patients in remission for monitoring cancer recurrence
- ❹ Patients diagnosed with cancer for molecular profiling and therapy match
- ❺ Patients who have failed other treatments
- ❻ Patients with metastatic cancer

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## LIQUID BIOPSY cfDNA, EGFR



## Liquid Biopsy

Test Name	LIQUID BIOPSY, cfDNA, EGFR
Clinical Utility	<ul style="list-style-type: none"> <li>• Simple non-invasive blood draw.</li> <li>• Not dependent on availability of tissue sample.</li> <li>• Utilizes circulating cell-free DNA (cfDNA) to provide comprehensive tumor mutational profile.</li> <li>• This is an in-house developed test useful for the detection of exon 19 deletion (p.E746_A750deletion), Exon 20 point mutation (T790M) and Exon 21 point mutation (L858R).</li> </ul>
Patient Selection	Patients with limited traditional cancer therapy options: <ul style="list-style-type: none"> <li>• Metastatic Cancer</li> <li>• Refractory or resistant cancer</li> </ul>
Technology	Digital Droplet PCR
TAT	Mon / Thu 9 am; Report Fri / Tue
Specimen	10 mL Whole blood in 1 Streck tube.

## Comparison between tissue biopsy & liquid biopsy

Tissue Biopsy	Liquid Biopsy
Lack of tumor heterogeneity	Representation of intra-tumoral complexity
Not an option in severely ill patients	Can be a substitute for primary biopsy in severely ill patients
No periodic monitoring for progression/recurrence	Dynamic monitoring of molecular changes for progression/recurrence
Obtained by surgery, an expensive procedure. Not easily obtained	Body fluid/blood is collected by a simple inexpensive procedure. Easily obtained
Some pain and risk involved	Minimal pain and risk involved
Invasive and uncomfortable (possibility of clinical complications)	Minimally invasive

### Other Tests for Lung Cancer

PD-L1,  
Cancer Targeted Gene Panel, Lung  
ALK, ROS-1, MET Amplification, KRAS, BRAF