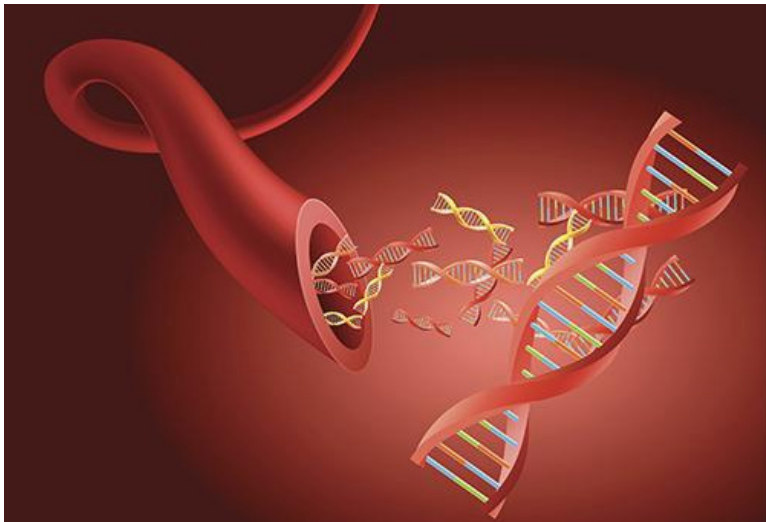


DISCOVER
DIAGNOSE
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Introducing.....

Liquid Biopsy



When Tissue Biopsy is not an option.....switch over to.....Liquid Biopsy

What is Liquid Biopsy?

- A liquid biopsy is a liquid biomarker that can be isolated from body fluids, usually blood.
- Performed on the Cell-free DNA (cfDNA) which is tumour DNA circulating freely in the blood of a cancer patient.
- Analysis of the fraction of mutant-alleles from cfDNA compared to normal-alleles from the patient's normal genome provides for minimally-invasive cancer prognosis & therapy selection.

Benefits of liquid biopsy testing

- Non invasive. Any number of sampling is possible. Usually blood sample is employed.
- Addresses the tumor heterogeneity' Biopsy is usually taken from a small area which may not represent the entire spectrum of mutations.
- Can be used as a substitute for primary biopsy in patients that may be non biopsiable.

Applications

| Malignancy Type | Tests | Applications |
|-----------------|------------------|--|
| NSCLC | EGFR, KRAS, BRAF | T790M is the most common resistant mutation (found in 60% of tyrosine inhibitor resistance) |
| | | Can detect T790M missed by tissue biopsy due to tumor heterogeneity in cases of metastasis |
| | | KRAS mutations is associated with resistance to TKIs such as Gefitinib & Erlotinib |
| | | Patients harboring BRAF V600E mutations associated with partial responses (PR) or complete responses (CR) for vemurafenib and dabrafenib monotherapies |
| | | Mutations in BRAF associated with poor prognosis |
| CRC | KRAS, NRAS, BRAF | No mutations in KRAS & NRAS is associated with favourable response to MABs such as Cetuximab & Panitumumab, |
| | | Mutated KRAS & NRAS associated with acquired resistance to MABs during disease progression |
| | | Mutations in BRAF associated with poor prognosis |
| | BRAF | Mutated BRAF patients respond favourably to Vemurafenib |

Test details:

| Test Name | Technique | Specimen | Parameters |
|---|------------------------|--|---|
| Cell Free DNA EGFR - T790M | Droplet Digital PCR | whole blood /10ml in Streck tube | <ul style="list-style-type: none"> • A750 del - Exon 19 • T790M - Exon 20 • L858R - Exon 21 |
| Liquid Bx. Cell Free Comprehensive Colon Cancer Panel - KRAS,NRAS,BRAF | | | <ul style="list-style-type: none"> • KRAS & NRAS - Codons 12, 13 & 61 • BRAF - V600D, V600E, V600R, and V600M & V600R |
| Liquid Bx. Cell Free PAN RAS - KRAS,NRAS | | | <ul style="list-style-type: none"> • Codons 12, 13 & 61 |
| Liquid Bx. Cell Free KRAS | | | <ul style="list-style-type: none"> • Codons 12, 13 & 61 |
| Liquid Bx. Cell Free BRAF | | | <ul style="list-style-type: none"> • V600D, V600E, V600R, V600M & V600R |

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