

Less Invasive, More Intelligent Than Ever

Whole Exome and Whole Transcriptome Sequencing
Tumor-Derived, Incidental Germline*, and Incidental CH Variant Detection
All from a Blood Sample



The Most Powerful Liquid Biopsy Assay Ever Developed

Caris Assure™ sets the new standard for liquid biopsy profiling and is the first pan-cancer, comprehensive assay that uses a novel circulating Nucleic Acids Sequencing (cNAS) approach. With deep molecular insights from a simple blood sample, Caris Assure offers a minimally invasive option for biomarker analysis for cancer patients when tissue samples are not available. Caris' flexible, multi-faceted molecular profiling platforms deliver uncompromising reliability and performance to guide personalized treatment decisions and help improve patient outcomes.

Whole Exome and Whole Transcriptome Sequencing from Blood

Technology

Circulating Nucleic Acids Sequencing (cNAS)

Application

Biomarker Analysis (including resistance mutations)

Biological Coverage

Plasma: cfDNA, cfRNA White Blood Cells: gDNA, mRNA

Variant Coverage (pathogenic and likely pathogenic)

Tumor-Derived Incidental Germline* Incidental CH

Genes & Depth

23,000+ 8,000x (raw average for clinically relevant genes)

Next-Generation Sequencing

Whole Exome Whole Transcriptome

Alterations

SNV INDEL CNA Fusions

Genomic Signatures/Other

oTMB HLA Genotype MS

Sample Quantity

2 Tubes Whole Blood

Performance in Advanced/Metastatic Patients

Compared to matched tissue collected within 30 days; based on ≥ 5 ng of cNAS input. Minimum reportable allele frequency is 0.1%.

Clinically Actionable SNV and INDEL:

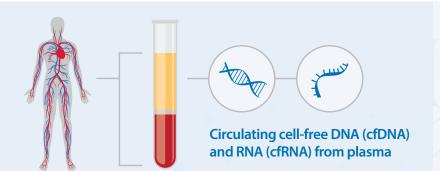
Sensitivity 93.8% PPV 96.8% Specificity >99.9%

Incidental Germline*:

Sensitivity >99% PPV >99% Specificity >99%

*Not a replacement for comprehensive germline testing. Incidental pathogenic alterations are reported, including ACMG recognized cancer genes. Negative results do not imply the patient does not harbor a germline mutation.

Caris Assure™ is intended for patients with previously diagnosed solid malignant neoplasms when tissue is not feasible and is to be used by qualified healthcare professionals. RNA results are intended for investigational purposes only. Not available in all locations.



Circulating Nucleic

cNAS is a novel liquid biopsy mole Caris Assure distinguishes tumor-d

Tumor-Derived, Incidental Germline* and Incidental CH Detection in a Single Assay

Caris molecular profiling leverages a multi-faceted approach to personalized cancer treatment. By identifying tumor-derived somatic variants, plus incidental germline* and incidental CH variants, Caris Assure provides clinicians with the comprehensive molecular intelligence needed to develop treatment plans that may help improve patient outcomes.

Tumor-Derived Somatic Testing

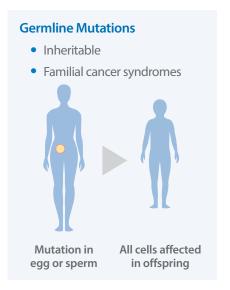
Somatic (acquired) variants are genetic alterations that are not present in egg or sperm cells but occur after conception, and therefore cannot be inherited by following generations. Somatic variants are classified by the

level of clinical actionability in the Caris Assure report and can be tumor-specific.

Incidental Germline Characterization

Germline (hereditary) variants are genetic alterations that are present in egg or sperm cells. Such variants will be present in every cell of the body when inherited by offspring. Recognizing germline mutations in predisposed individuals can assist in risk reduction and cancer prevention. Caris Assure analyzes genomic DNA from circulating

Somatic Mutations Non-inheritable Acquired Somatic mutation (e.g., breast)



white blood cells and can distinguish incidental germline* mutations from somatic mutations.

Incidental CH Analysis

Clonal hematopoiesis (CH) mutations are common age-related somatic mutations that accumulate in the cells of blood or bone marrow. CH mutations create biological "noise" that may cause false positive results.¹ Caris Assure distinguishes somatic CH mutations from somatic tumor mutations to reduce false positives and improve specificity.

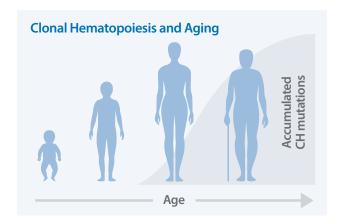
Acids Sequencing (cNAS)

cular profiling approach that analyzes cell-free DNA and RNA from plasma, plus genomic DNA and erived somatic variants from incidental germline and/or incidental CH mutations to reduce false po

Improved Assay Performance with CH Subtraction

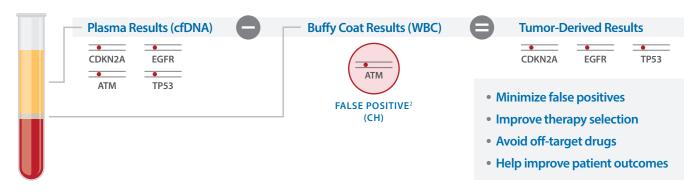
Clonal Hematopoiesis (CH) mutations are age-related somatic mutations that accumulate in blood cells. While such mutations may be precursors to disease, their presence does not necessarily indicate hematologic cancer. When CH mutations occur in genes that are common onco-drivers for solid tumors, detection of such sequences may cause false positive results in blood-based nucleic acid tests.¹

Caris Assure analyzes and subtracts these incidental CH mutations from somatic tumor mutation results to reduce false positives and improve assay specificity. CH mutations are confirmed by sequencing genomic DNA from white blood cells in the buffy coat, distinguishing both incidental CH and incidental germline mutations.

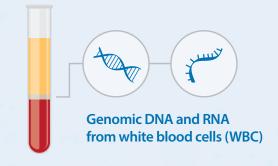


CH mutations accumulate in blood cells of aging patients and may create false positives in blood-based tests.

CH Analysis and Subtraction Yields More Accurate Results



RNA from circulating WBCs. sitives and improve specificity.



Easy-to-Interpret Results for Clarity in Treatment Planning

The Caris Assure report maximizes clinical utility in an easy-to-interpret format.

Clinical Utility:

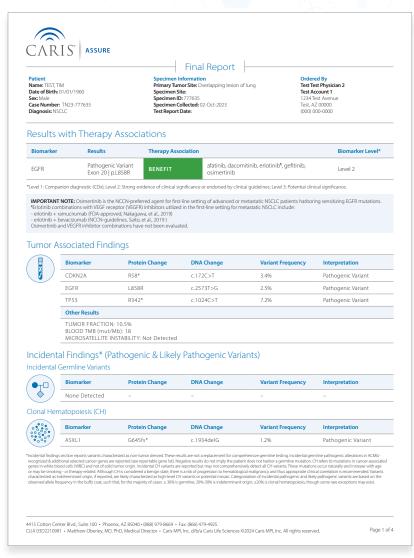
- Navigate among therapies with potential benefit or lack of benefit
- Identify therapies that may not have been considered
- Match patient to clinical trials based on tumor biology

Evidence-guided:

- Drug associations based on peerreviewed literature
- Testing methodologies consistent with industry guidelines

EHR Compatible:

- HIPAA compliant
- Easy installation
- Secure encryption
- Real-time sync



For illustrative purposes only. Not for clinical use.

² Razavi P, et al. (2019). High-intensity sequencing reveals the sources of plasma circulating cell-free DNA variants. Nat Med 25, 1928-1937.

The Most Powerful Liquid Biopsy Assay Ever Developed

Tumor-Derived, Incidental Germline* and Incidental CH Detection



Comprehensive analysis of 23,000+ genes

Biomarker analysis (including resistance mutations)

Less invasive alternative to tissue biopsy

Reports tumor-derived, incidental germline* and incidental CH variants

Reduces false positives from incidental CH mutations

Be Sure with Caris Assure.

To order or learn more, visit www.CarisLifeSciences.com/Assure.



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Where Molecular Science Meets Artificial Intelligence.

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