

Premium Grade Longitudinal Cell-Free Plasma



Overview

Indivumed's Premium Grade biospecimens capture the molecular reality to deliver a holistic view of the tumor landscape at the highest level of clinical relevance, thereby enabling you to excel in personalized medicine, drug discovery, and companion diagnostics. The "Indivumed Standard for Biobanking" is firmly established and acknowledged as synonymous with unparalleled quality. We are globally recognized and trusted as setting the highest level for biospecimen and clinical data collection. Indivumed's capability is to accelerate your time to market without having to compromise on quality. Indivumed allows molecular insight by providing quick access to longitudinal plasma from cancer patients that have undergone treatment.

In collaboration with a continuously expanding oncology network, Indivumed has established a unique high-quality cell-free plasma biobank that is exclusively focused on collecting longitudinal whole blood samples from cancer patients. Circulating tumor DNA (ctDNA) can then be isolated from longitudinal cell-free plasma to allow for monitoring of disease progression by providing diagnostic and prognostic information potentially in real-time.

Indivumed provides a broad spectrum of systematic sample quality and clinical data with Premium Grade, Advanced Grade, and Basic Grade samples, from the most stringent requirements to routine and standard operations.

Your Benefits

- Complete plasma set per patient including 1 blood draw T0 before treatment and up to 5 blood draws T1 to T5 during treatment
- Comprehensive matching clinical data including therapy and clinical outcome (~32–45 data points)
- Numerous cancer entities and therapies including immune checkpoint inhibitors and immune modulators
- Large selection of patients
- Collection in Streck Cell-free DNA BCT® stabilizes cells, which lowers cfDNA background
- State-of-the-art plasma isolation according to ISO-certified protocol
- Complete patient consent for targeted genome analysis



Preparation of Cell-Free Plasma from Whole Blood

Whole blood samples are collected in Streck Cell-free DNA BCT® and processed within 24–72 hours. Streck tubes stabilize cells to prevent further release of cell-free DNA (cfDNA) thereby lowering cfDNA background levels to achieve a stronger signal of ctDNA. Plasma is isolated from blood samples via two sequential centrifugation steps to ensure cell-free plasma. All steps are performed at room temperature including storage, sample transport from the oncology clinic to Indivumed lab, and plasma aliquot preparation. Furthermore, by utilizing Streck Cell-free RNA BCT®, cell-free RNA (cfRNA) can be stabilized in plasma, preventing the release of non-target background RNA from blood cells during sample processing and storage.

Applications of Longitudinal Plasma Derived ctDNA in Oncology

- Longitudinal surveillance of clonal evolution
- Screening and early detection
- Patient stratification
- Monitor treatment response
- Assess residual disease
- Identify resistance mutations
- Therapeutic decision-making
- Analyze spatial/temporal tumor heterogeneity
- Detect molecular remission

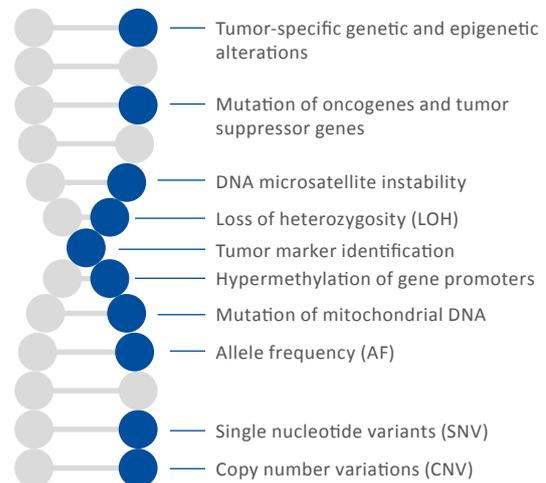
Types of Therapies

- EGFR inhibitors
- Hormone therapy
- Immune checkpoint inhibitors
- Immune modulators
- Monoclonal antibodies
- Proteasome inhibitors
- Protein kinase inhibitors
- VEGF inhibitors
- Chemotherapy

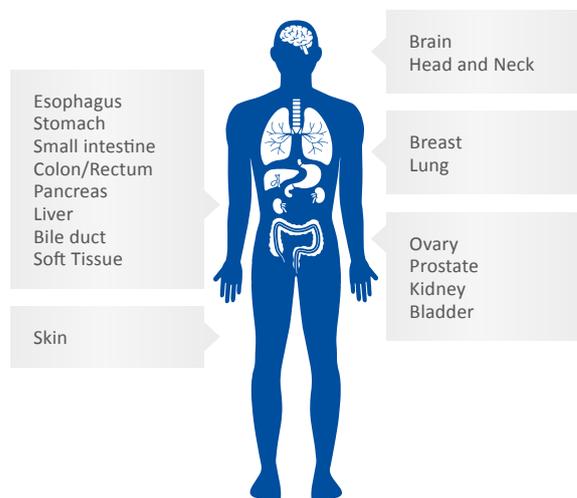
Clinical Dataset

- General patient data
- Current disease
- Cancer classification
- Therapy
- Information on therapy response and clinical outcome (RECIST 1.1)

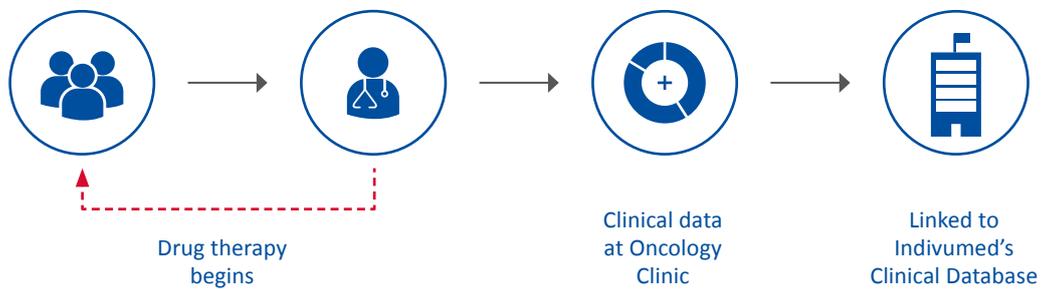
Attributes of ctDNA That Can Be Quantitatively Analyzed Using NGS



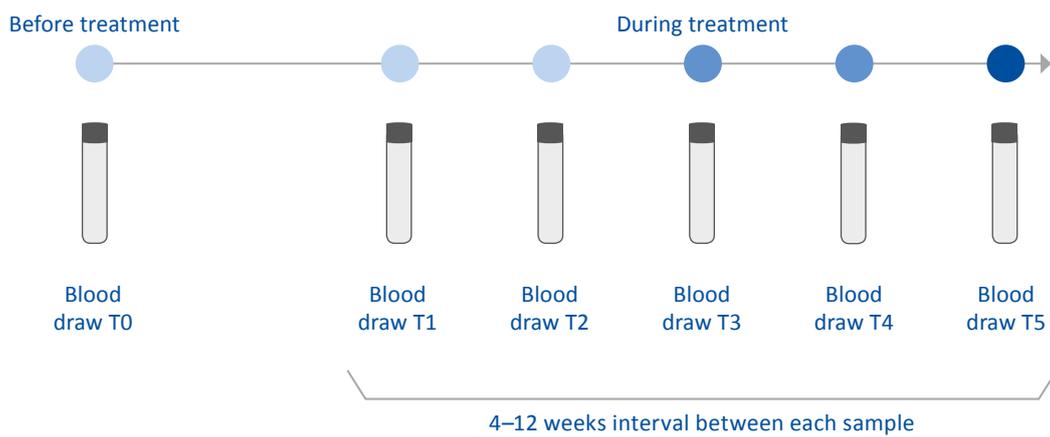
Organs of Tumor Origin



Fully-Controlled and Standardized Longitudinal Collection of Plasma Samples and Corresponding Treatment Data for Circulating Nucleic Acid Analysis



Longitudinal Plasma Sample Collection



About Indivumed

Indivumed GmbH is a physician-led, integrated global oncology company for personalized medicine with the world's premier high-content tumor database and highest quality biobank. Indivumed's standard operating procedures are trusted as the global benchmark for biospecimen and clinical data collection.

Our long-standing biobanking expertise is ISO 9001-certified and includes strict protocols for tissue sampling and processing with regard to crucial parameters such as tumor region, ischemia time, and information management.

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