

Swedish National
Breast Cancer Study

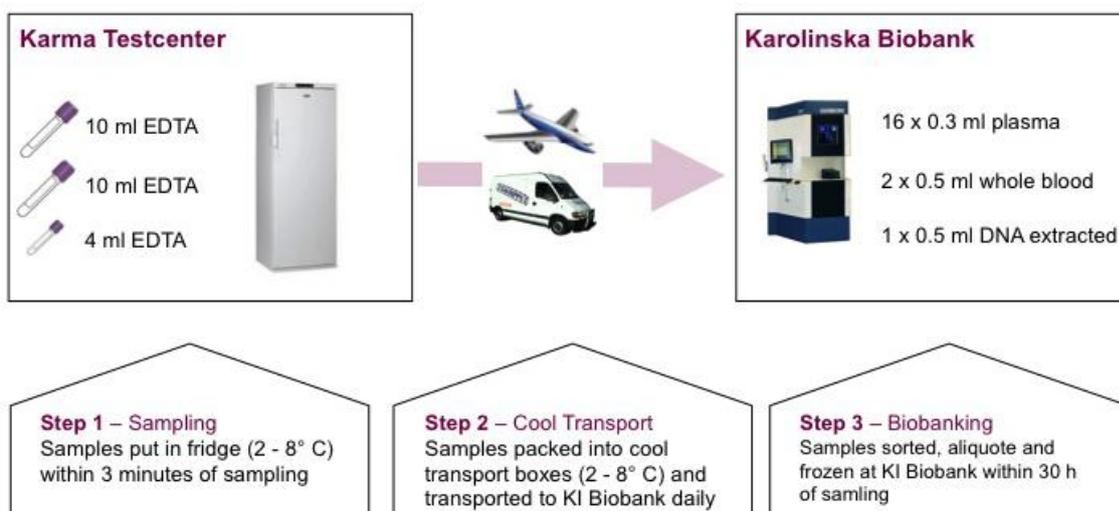
Karma

Karma Biobank variables

All participants donate two 10 ml EDTA blood samples and one 4 ml EDTA blood sample each time they visit a Karma unit for their In Person Test, typically every 18 to 24 months. The blood is handled in accordance with a strict 30 hour protocol, which makes advanced blood analysis (OMICS) possible. The blood samples are processed in KI biobank and aliquoted into 16 plasma aliquots (each 250 microliters), one aliquot of extracted DNA, and two aliquots of whole blood.



Karma biosampling process



The Karma biobank holds the following variables.

Report of receipt

mothersample_receivedate

Date of receiving mother sample(s).

mothersample_splitdelivery

Mother sample came in split delivery, i.e. all samples did not arrive at the same time. The split samples are added up correctly in the mother sample variables.

mothersample_blood_nbr

Number of blood mother samples received at the biobank.

mothersample_plasma_nbr

Number of plasma mother samples received at the biobank.

referralid

Referral ID.

Aliquots

aliquot_event_receive

Number of aliquot receive events.

aliquot_event_deliver

Number of aliquot deliver events.

aliquot_saldo

Aliquot saldo in biobank (receive events minus deliver events minus discard events).

aliquot_nbr

Number of aliquots processed per study participant.

aliquot_event_highestnbr

Highest number of aliquot events for at least one aliquot (e.g. STORE, UNSTORE events) per study participant.

needle_to_receive_aliq1_hrs

Hours from needle to biobank (1st aliquot), i.e. from blood drawing at the Karma unit to the receive event at the biobank for aliquot 1.

needle_to_freezer_aliq16_hrs

Hours from needle to biobank freezer (16th aliquot), i.e. from blood drawing at the Karma unit to the store event at the biobank for aliquot 16.

process_aliq1_to_aliq16_min

Aliquot processing time in minutes (receive of 1st aliquot to store of 16th aliquot).

mothersample_receivedate

Date of receiving mother sample(s).

mothersample_blood_nbr

Number of mother samples of blood.

mothersample_plasma_nbr

Number of plasma mother samples.

DNA concentration**aliquot_dna_mothersampleid**

Mother sample used in DNA extraction.

aliquot_dna_barcode

Aliquot barcode used in DNA extraction.

aliquot_dna_volume_myl

DNA volume in aliquot (micro liter).

aliquot_dna_conc_myg_ml

DNA concentration in aliquot (micro gram per milliliter).

aliquot_dna_ratio

Ratio of DNA/aliquot volume (A260/A280 standard).

aliquot_dna_measured_date

Date of performing the DNA concentration measurement.

aliquot_dna_measured_again

DNA ratio measurement was performed again. The DNA-concentration variables hold result from last measurement.

System variables

study_biobank

The study collecting biobank samples.

round_biobank

Round of biobank processing samples for study participant, i.e. the order number of times the study participant donates bio-material. Used for stratifying participant rounds (study steps).

year_biobank

Year of biobank processing samples. Used for stratifying time series data.

month_biobank

Month of biobank processing samples. Used for stratifying time series data.

source_kibb_report_of_receipt

Available biobank report of receipt data.

source_kibb_aliquot

Available biobank aliquot data.

source_kibb_dnaconcentration

Available biobank DNA concentration data.

lastupdate_date

Date of last update of biobank information.