

BRHS Cohort: Overview of blood biomarkers

| | 1978-80 Baseline | 1998-2000 20 year Survey | 2010-2012 30 year Survey | 2018-2019 40 year Survey |
|-------------------------------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|
| Blood samples | x | x | x | x |
| Genetic Material (Blood) | | x | | |
| Frozen samples | | x | x | x |
| BIOCHEMISTRY | | | | |
| Alkaline Phosphatase (ALP) | x | x | x | x |
| Bilirubin (Total) | x | x | x | x |
| Cadmium | x | | | |
| CHDR | | | x | x |
| Lead | x | | | |
| Magnesium | | x | x | x |
| Potassium | x | x | x | x |
| Protein (total) | | x | x | x |
| Sodium | x | x | x | x |
| HAEMATOLOGY | | | | |
| Basophils Absolute Value | | | x | |
| Blood Group | x | | | |
| Carboxyhaemoglobin | | x | | |
| Eosinophils Absolute Value | | | x | x |
| Haematocrit | x | x | x | x |
| Haemoglobin | x | x | x | x |
| Lymphocytes Absolute Value | | | x | |
| Mean Cell haemoglobin (MCH) | x | x | x | x |
| Mean Cell Haemoglobin Concentration(MCHC) | x | x | x | x |
| Mean Cell Volume (MCV) | | x | x | x |
| Mean Platelet volume (MPV) | x | x | x | x |
| Monocytes Absolute Value | | | x | x |
| Neutrophils Absolute Value | | | x | x |
| Platelets | | x | x | x |
| Red blood cell count (RBC) | x | x | x | x |
| Red Blood Cell Distribution Width | | | x | x |
| Rhesus | x | | | |
| White blood cell count (WBC) | x | x | x | x |

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| RENAL-HEPATIC | | | | |
| Alanine Aminotransferase (ALT) | | X | X | X |
| Albumin | X | X | X | X |
| Aspartame Transaminase (AST) | X | X | X | X |
| Calcium | X | X | X | X |
| Calcium orthophosphates (CaPO4) | X | | | |
| Creatinine | X | X | X | X |
| Estimated Glomerular Filtration Rate (eGFR) | | X | X | X |
| Gamma-Glutamyl transferase (gamma-GT, GGT) | | X | X | X |
| Gamma-glutamyl transpeptidase (GGTP) | X | | | |
| Globulin | X | | | |
| Nephelometric fibrinogen | | X | | |
| Parathyroid hormone (PTH) | | X | | |
| Phosphate | | X | X | X |
| Urate | X | X | X | X |
| Urea | X | X | X | X |
| BLOOD LIPIDS | | | | |
| Cholesterol (Total) | X | X | X | X |
| High Density Lipoprotein cholesterol (HDL) | X | X | X | X |
| Lipoprotein (LPa) | | | | |
| Low Density Lipoprotein cholesterol (LDL) | | X | X | X |
| Triglyceride | X | X | X | X |
| GLUCOSE-INSULIN | | | | |
| Cysteine | | X | | |
| Cysteinylglycine (CysGly) | | X | | |
| Glucose | X | X | X | X |
| Glycated Haemoglobin (HbA1c) | | X | X | X |
| Insulin | | X | X | X |
| Insulin-like growth factor 1 (IGF-1) | | | X | X |
| Proinsulin | | | X | |

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| INFLAMMATION-HAEMOSTASIS | | | | |
| Activated partial thromboplastin time (aPTT) | | X | | |
| Activated Protein C Resistance | | X | | |
| Carboxymethyl lysine (CML) | | | X | |
| C-Reactive protein (CRP) | | X | X | X |
| Cystatin C | | | X | |
| Factor II | | | | |
| Factors IX | | X | | |
| Factors VII | | X | | |
| Factors VIII | | X | | |
| Fibrin D-dimer | | X | X | X |
| Fibrinogen | | X | | |
| Growth Differentiation Factor (GDF-15) | | | | X |
| Interleukin-18 (IL-18), | | | | |
| Interleukin-6 (IL-6), | | X | X | X |
| Lysine (% of lysine that is glycated (CML to Lysine ratio)) | | | X | |
| Lysine concentration | | | X | |
| Mid-regional proadrenomedullin (MRproADM) | | X | | |
| Plasma Viscosity | | X | | |
| Receptor for Advanced Glycation End product (sRAGE) | | | X | |
| Tissue plasminogen activator (t-PA) | | X | X | |
| Tumor Necrosis Factor alpha (TNFa) | | | | |
| von Willebrand factor | | X | X | X |
| VITAMINS, ADIPOKINES, OTHER | | | | |
| Adiponectin | | X | X | |
| CD40 | | | | |
| Copeptin | | X | | |
| Cotinine | | X | | |
| Ferritin | | | | |
| Folate | | | | |
| High-Sensitivity Troponin T (hsTnT) | | | X | |
| Homocysteine | | X | | |
| Leptin | | X | X | |
| Metabolites -Blood | | X | | |
| N-terminal pro B-type natriuretic peptide (NT-proBNP) | | X | X | X |
| Troponin T (TnT) | | X | | X |
| Vitamin B12 | | | | |
| Vitamin C | | X | | |
| Vitamin D | | X | X | X |
| Vitamin E | | X | | |