

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	x	x
Frozen samples	x	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	
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)			X	
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	
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	
Cystatin C			X	
Factor II				
Factors IX		X		
Factors VII		X		
Factors VIII		X		
Fibrin D-dimer		X	X	
Fibrinogen		X		
Growth Differentiation Factor (GDF-15)				X
Interleukin-18 (IL-18),				
Interleukin-6 (IL-6),		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	
VITAMINS, ADIPOKINES, OTHER				
Adiponectin		X	X	
CD40				
Copeptin		X	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		