

1 Supplementary Materials

Table 1: Available clinical features in the UK Biobank. Binary features marking the presence or absence of a specific comorbidity have no unit.

Category	Feature (unit)	Type	UKB Field ID
Demographics	Age (years)	Continuous	21003
	Sex (M/F)	Categorical	31
	BMI (kg/m^2)	Continuous	21001
	Waist Circumference (cm)	Continuous	48
	Height (cm)	Continuous	12144
	Weight (cm)	Continuous	21002
Biomarker Data	Haemoglobin	Continuous	30020
	Systolic Pressure (mmHg)	Continuous	4080
	Diastolic Pressure (mmHg)	Continuous	4079
	Pulse Wave Arterial Stiffness Index	Continuous	21021
	Red Blood Cell Count ($10^{12}cells/L$)	Continuous	30010
	White Blood Cell Count ($10^9cells/L$)	Continuous	30000
	Platelet count ($10^9cells/L$)	Continuous	30080
	Extracellular Glomerular Cellular Rate (EGCR) ($\mu mol/L$)	Continuous	30700
Self-reported Comorbidities	Diabetes	Binary	2443
	Eye diabetes	Binary	6148
	Health Rating	Categorical	2178
	Stroke dad	Binary	20107
	Stroke mom	Binary	20110
	Stroke siblings	Binary	20111
	Breathe Shortness	Binary	4717
	Anxiety Visit	Binary	2090
	Chest Pain	Binary	2335
Registered Comorbidities	Stenosis	Binary	132
	Kidney	Binary	132052
	Diabetes	Binary	2443
	High Cholesterol	Binary	30760
	Angina	Binary	3627

Category	Feature (unit)	Type	UKB Field ID
	Dementia	Binary	42018
	Thyrotoxicosis	Binary	130700
	Migraine	Binary	131052
	Previous_stroke	Binary	6150
	Embolism	Binary	4022
	Myocardial Infarction (MI)	Binary	42000
	Age Deep-Vein Thrombosis (DVT) diagnosed (years)	Binary	4012
	Transient Ischemic Attack (TIA)	Binary	6156
	Atrial Fibrillation (AF)	Binary	131350
	Vascular Heart Problems	Binary	6158
Lifestyle Features	Smoking status	Binary	1239
	Alcohol Intake	Categorical	1558
	Diet Salt	Categorical	1548
	Physical Activity (number of days/week)	Continuous	884
	Time TV (hr/day)	Continuous	1070
	Time Mobile (hr/day)	Categorical	1120
	Time PC (hr/day)	Continuous	1080
	Sleep Duration (hr/day)	Continuous	1160
	Coffee Intake (cups/day)	Continuous	1498
Medication	Cholesterol	Binary	6177
	Pressure	Binary	6177
	Insulin	Binary	6177
	Hormone	Binary	6153
	Pill	Binary	3536
Brain IDPs	Total Volume of White Matter Hyperintensities (mm^3)	Continuous	25781
	Total Volume of Deep White Matter Hyperintensities (mm^3)	Continuous	24486
	Total Volume of Periventricular White Matter Hyperintensities (mm^3)	Continuous	24485
	Volume of brain grey and white matter normalised for head size (mm^3)	Continuous	25009
	Volume of brain grey matter normalised for head size (mm^3)	Continuous	25005

Category	Feature (unit)	Type	UKB Field ID
	Discrepancy between T1 brain image and standard-space brain template (AU)	Continuous	25736