Additional file 6 - Supplementary Note 2. Associations between epigenetic measures of ageing and incidence of ICD-10-coded common diseases in a basic model adjusting for age and sex.

DNAm GrimAge

AgeAccelGrim was associated with incidence of COPD (Hazard Ratio (HR) per SD = 2.65, P = 1.2×10^{-58}), diabetes (HR = 1.75, P = 9.6×10^{-15}), ischemic heart disease (HR = 1.46, P = 1.4×10^{-13}), stroke (HR = 1.43, P = 1.8×10^{-6}) and lung cancer (HR = 1.46, P = 6.5×10^{-11}). AgeAccelGrim also showed a nominally significant association with incidence of depression (HR = 1.42, P = 0.01), Alzheimer's disease (HR = 1.70, P = 0.03) and dorsalgia (HR = 1.22, P = 0.04).

DunedinPoAm

DunedinPoAm was associated with incidence of COPD (HR = 2.62, P = 2.5×10^{-40}), diabetes (HR = 1.64, P = 9.0×10^{-10}), stroke (HR = 1.52, P = 8.1×10^{-8}), lung cancer (HR = 1.47, P = 3.6×10^{-8}) and ischemic heart disease (HR = 1.31, P = 2.9×10^{-6}). DunedinPoAm also showed a nominally significant association with incidence of depression (HR = 1.42, P = 0.02), Alzheimer's disease (HR = 1.67, P = 0.03) and dorsalgia (HR = 1.30, P = 0.04).

DNAm PhenoAge

AgeAccelPheno was associated with incidence of diabetes (HR = 1.73, P = 8.0×10^{-14}), COPD (HR = 1.58, P = 8.0×10^{-11}) and ischemic heart disease (HR = 1.29, P = 9.6×10^{-7}). AgeAccelPheno showed nominally significant associations with incidence of depression (HR = 1.37, P = 0.03), stroke (HR = 1.18, P = 0.02) and breast cancer (HR = 1.36, P = 0.01).

HannumAge

Age-adjusted HannumAge (EEAA) was nominally associated with incidence of COPD (HR = 1.25, P = 1.1×10^{-3}).

HorvathAge

Age-adjusted HorvathAge (IEAA) showed a nominally significant relationship with incidence of diabetes (HR = 1.18, P = 0.03).

DNAmTLadjAge

Age-adjusted DNAm Telomere Length was associated with incidence of COPD (HR = 0.64, P = 2.8×10^{-10}), ischemic heart disease (HR = 0.81, P = 7.5×10^{-5}), stroke (HR = 0.75, P = 1.3×10^{-4}) and diabetes (HR = 0.76, P = 8.0×10^{-4}), and also showed a nominally significant association with incidence of depression after 13 years since study baseline (HR = 0.71, P = 0.02).

Please refer to Additional File 3: Table S9 for full details of association models.