

**Supplementary Table 2.** HRs and 95% CIs of all-cause mortality, myocardial infarction, and stroke according to the number of high-variability (Q4) metabolic parameters

No. of high-variability (Q4) components <sup>a</sup>	No. of events	Incidence rate <sup>b</sup>	Age-sex adjusted model, aHR (95% CI)	Multivariable model <sup>c</sup> , aHR (95% CI)
<b>All-cause mortality</b>				
0	50,671	2.48	1 (Reference)	1 (Reference)
1	82,176	3.51	1.26 (1.25–1.28)	1.21 (1.19–1.22)
2	61,082	5.02	1.60 (1.58–1.62)	1.46 (1.44–1.48)
3	25,032	7.40	2.08 (2.05–2.11)	1.80 (1.77–1.83)
4	4,570	10.89	2.69 (2.61–2.78)	2.21 (2.14–2.28)
<b>Myocardial infarction</b>				
0	29,748	1.46	1 (Reference)	1 (Reference)
1	40,811	1.75	1.13 (1.11–1.15)	1.07 (1.06–1.09)
2	26,114	2.16	1.30 (1.28–1.32)	1.18 (1.16–1.20)
3	9,026	2.68	1.51 (1.47–1.54)	1.30 (1.27–1.33)
4	1,441	3.46	1.80 (1.71–1.90)	1.49 (1.42–1.57)
<b>Stroke</b>				
0	30,764	1.51	1 (Reference)	1 (Reference)
1	44,248	1.90	1.13 (1.12–1.15)	1.08 (1.07–1.10)
2	29,159	2.41	1.29 (1.27–1.31)	1.18 (1.16–1.20)
3	10,363	3.09	1.49 (1.45–1.52)	1.30 (1.27–1.33)
4	1,648	3.97	1.71 (1.63–1.80)	1.43 (1.36–1.51)

aHR, adjusted hazard ratio, CI, confidence interval; HR, hazard ratio.

<sup>a</sup>The number of high-variability components was calculated by summing the presence of high variability (Q4) in a metabolic parameter from each metabolic syndrome domain (body mass index [BMI], fasting blood glucose, systolic blood pressure, and total cholesterol). <sup>b</sup>Incidence rate (/1,000 person-years).

<sup>c</sup>The multivariable model was adjusted for age, sex, low-income status, current smoking, alcohol consumption, regular physical activity, history of diabetes mellitus, hypertension, dyslipidemia, and BMI.