Supplementary Table 1. Multivariate analysis on the risk factors for stroke, myocardial infarction, cardiovascular disease and herpes zoster[a]

Parameter	Stroke		MI		Cardiovascular disease		Zoster	
	HR (95% CI)	p value	HR (95% CI)	p value	HR (95% CI)	p value	OR (95% CI)	p value
Statin	0.875 (0.793–0.966)	0.008	0.897 (0.770–1.045)	0.163	0.885 (0.812–0.964)	0.0051	2.473 (2.319–2.637)	< 0.001
Zoster	1.182 (1.068–1.308)	0.001	1.274 (1.087–1.493)	0.003	1.224 (1.121–1.336)	< 0.001	-	-
Age, yr		< 0.001		< 0.001		< 0.001		< 0.001
41–50	0.100 (0.093–0.107)	< 0.001	0.150 (0.135–0.166)	< 0.001	0.115 (0.109–0.122)	< 0.001	1.432 (1.331–1.541)	0.034
51–60	0.224 (0.211–0.237)	< 0.001	0.270 (0.246–0.297)	< 0.001	0.239 (0.227–0.251)	< 0.001	1.722 (1.602–1.851)	< 0.001
61–70	0.497 (0.472–0.523)	< 0.001	0.495 (0.454–0.540)	< 0.001	0.499 (0.477–0.523)	< 0.001	1.495 (1.388–1.611)	< 0.001
≥ 71	Ref		Ref		Ref		Ref	
Male gender	1.328 (1.265–1.394)	< 0.001	1.508 (1.393–1.634)	< 0.001	1.392 (1.333–1.453)	< 0.001	0.931 (0.892–0.972)	0.001
Overweight, BMI ≥ 25 kg/m²	1.006 (0.965–1.048)	0.777	1.096 (1.026–1.171)	0.006	1.037 (1.000–1.075)	0.0492	0.902 (0.871–0.935)	< 0.001
Cigarette smoking		< 0.001		< 0.001		< 0.001		< 0.001
Non-smoker	Ref		Ref		Ref		Ref	
Ex-smoker	0.935 (0.843–1.036)	0.201	1.170 (1.001–1.367)	0.049	1.002 (0.917–1.095)	0.9634	1.647 (1.545–1.756)	< 0.001
Current smoker	1.357 (1.284–1.434)	< 0.001	1.701 (1.560–1.855)	< 0.001	1.450 (1.382–1.521)	< 0.001	0.573 (0.541–0.608)	< 0.001
Unknown	1.026 (0.946–1.113)	0.540	1.176 (1.033–1.339)	0.014	1.058 (0.986–1.137)	0.1186	0.530 (0.483–0.583)	< 0.001
Alcohol consumption		< 0.001		< 0.001		< 0.001		< 0.001
Non-drinker	Ref		Ref		Ref		Ref	
≤ Twice per week	0.892 (0.846–0.942)	< 0.001	0.791 (0.726–0.861)	< 0.001	0.858 (0.819–0.899)	< 0.001	0.809 (0.774–0.845)	< 0.001
≥ 3 times per week	1.002 (0.940–1.068)	0.950	0.782 (0.705–0.868)	< 0.001	0.930 (0.879–0.983)	0.0109	0.838 (0.788–0.891)	< 0.001
Unknown	1.001 (0.863–1.161)	0.993	0.927 (0.728–1.180)	0.539	0.964 (0.846–1.099)	0.5844	1.234 (1.068–1.425)	< 0.001
Physical exercise		< 0.001		0.001		< 0.001		< 0.001
None	Ref		Ref		Ref		Ref	
≤ Twice per week	0.81 (0.766–0.856)	< 0.001	0.887 (0.814–0.966)	0.006	0.831 (0.792–0.872)	< 0.001	1.204 (1.155–1.255)	< 0.001
≥ 3 times per week	0.824 (0.781–0.869)	< 0.001	0.860 (0.790–0.937)	0.001	0.832 (0.794–0.871)	< 0.001	1.141 (1.093–1.192)	0.003
Unknown	0.994 (0.868–1.140)	0.936	1.024 (0.821–1.276)	0.835	1.027 (0.912–1.156)	0.6650	0.935 (0.809–1.080)	0.018
Income		< 0.001		< 0.001		< 0.001		< 0.001
I (lowest)	Ref		Ref		Ref		Ref	
II	1.003 (0.940–1.071)	0.923	1.031 (0.927–1.147)	0.577	1.008 (0.952–1.067)	0.7828	1.018 (0.960–1.079)	0.498
III	0.969 (0.909–1.034)	0.343	1.027 (0.925–1.140)	0.616	0.978 (0.924–1.035)	0.4378	0.990 (0.935–1.049)	0.028

Supplementary Table 1. Continued

Parameter	Stroke		MI		Cardiovascular disease		Zoster	
	HR (95% CI)	p value	HR (95% CI)	p value	HR (95% CI)	p value	OR (95% CI)	p value
IV	0.935 (0.880–0.994)	0.031	0.943 (0.853–1.042)	0.249	0.930 (0.881–0.981)	0.0079	1.016 (0.962–1.072)	0.372
V (highest)	0.851 (0.804–0.902)	< 0.001	0.858 (0.781–0.943)	0.001	0.845 (0.804–0.889)	< 0.001	1.139 (1.084–1.197)	< 0.001
Hypertension	1.767 (1.691–1.846)	< 0.001	1.503 (1.402–1.612)	< 0.001	1.674 (1.611–1.739)	< 0.001	0.991 (0.954–1.029)	0.630
Diabetes	1.470 (1.405–1.537)	< 0.001	1.443 (1.341–1.553)	< 0.001	1.455 (1.398–1.514)	< 0.001	1.064 (1.017–1.113)	0.007
Dyslipidemia	1.056 (1.006–1.108)	0.026	1.248 (1.158–1.346)	< 0.001	1.102 (1.057–1.149)	< 0.001	1.232 (1.181–1.285)	< 0.001
Ischemic heart disease (120)	1.131 (1.045–1.225)	0.002	1.485 (1.318–1.673)	< 0.001	1.239 (1.157–1.327)	< 0.001	1.123 (1.041–1.212)	0.003
Transient ischemic attack	1.667 (1.471–1.890)	< 0.001	1.002 (0.773–1.299)	0.987	1.544 (1.375–1.733)	< 0.001	1.230 (1.061–1.426)	0.006
Heart failure	1.219 (1.107–1.341)	< 0.001	1.614 (1.397–1.865)	< 0.001	1.309 (1.204–1.422)	< 0.001	1.076 (0.964–1.200)	0.192
Atrial fibrillation	1.737 (1.492–2.022)	< 0.001	1.214 (0.927–1.592)	0.159	1.573 (1.370–1.806)	< 0.001	1.283 (1.067–1.542)	0.008
Valvular heart disease	1.220 (0.967–1.538)	0.093	1.346 (0.933–1.940)	0.112	1.256 (1.024–1.541)	0.0287	0.913 (0.696–1.198)	0.512
Chronic renal disease	1.292 (1.097–1.522)	0.002	1.265 (0.971–1.649)	0.082	1.293 (1.119–1.494)	0.0005	1.047 (0.895–1.225)	0.562
Carotid stenosis	2.037 (1.264–3.285)	0.004	0.301 (0.042–2.141)	0.230	1.659 (1.043–2.637)	0.0325	1.292 (0.826–2.020)	0.262
Peripheral vascular disease	1.168 (1.083–1.260)	< 0.001	0.992 (0.869–1.133)	0.905	1.121 (1.047–1.200)	0.0011	1.871 (1.763–1.987)	< 0.001
Chronic liver disease	1.357 (1.137–1.619)	0.001	1.211 (0.900–1.629)	0.207	1.346 (1.153–1.572)	0.0002	1.183 (1.009–1.387)	0.038
Rheumatoid disease	1.153 (1.061–1.252)	0.001	1.272 (1.113–1.453)	< 0.001	1.173 (1.090–1.262)	< 0.001	1.376 (1.279–1.480)	< 0.001
Inflammatory bowel disease	0.781 (0.552–1.105)	0.162	1.039 (0.635–1.698)	0.880	0.832 (0.619–1.119)	0.2245	1.007 (0.749–1.354)	0.963
Malignancy including solid cancer and hematologic malignancy	1.064 (0.961–1.179)	0.235	1.023 (0.863–1.214)	0.790	1.052 (0.961–1.152)	0.2750	1.655 (1.533–1.787)	< 0.001
Recipients of solid organ transplantation or hematopoietic stem cell transplantation	1.329 (0.491–3.594)	0.575	1.621 (0.395–6.662)	0.503	1.226 (0.504–2.984)	0.6531	1.113 (0.545–2.274)	0.769
Human immunodeficiency virus infection	1.499 (0.211–10.647)	0.686	NC	NC	1.145 (0.161–8.129)	0.8926	1.043 (0.131–8.306)	0.968
Depression	1.210 (1.002–1.461)	0.047	1.007 (0.718–1.412)	0.970	1.155 (0.975–1.369)	0.0962	1.200 (1.017–1.417)	0.031

MI, myocardial infarction; HR, hazard ratios; CI, confidence interval; OR, odds ratio; BMI, body mass index; NC, not applicable.

[a]Adjusted for age, male gender, hypertension, hyperlipidemia, ischemic heart disease, diabetes, heart failure, peripheral vascular disease, arterial fibrillation or atrial flutter, renal disease, and valvular heart disease.