

**Supplementary Table 2. Multiple sensitivity analysis for statin use, subsequent herpes zoster, and the mediating effect of cardiovascular disease by statin use through herpes zoster<sup>a</sup>**

Variable	MI			Stroke			Cardiovascular disease		
	aHR	95% CI	p value	aHR	95% CI	p value	aHR	95% CI	p value
Chronic pulmonary disease included in multivariate analysis									
NDE	0.900	0.772–1.048	0.1760	0.873	0.791–0.964	0.0071	0.884	0.812–0.964	0.0050
ME/NIE	1.015	1.003–1.027	0.0118	1.010	1.003–1.018	0.0039	1.013	1.006–1.019	< 0.0001
Total effect	0.9134	0.784–1.064	0.2454	0.883	0.800–0.974	0.0130	0.896	0.822–0.976	0.0118
Proportion mediated, %		–15.72			–7.78			–10.79	
People between 18 and 40 years included									
NDE	0.905	0.779–1.051	0.1897	0.869	0.788–0.958	0.0049	0.883	0.811–0.961	0.0039
ME/NIE	1.013	1.004–1.023	0.0050	1.010	1.004–1.016	0.0007	1.012	1.006–1.017	< 0.0001
Total effect	0.917	0.789–1.065	0.2547	0.877	0.796–0.968	0.0084	0.893	0.820–0.972	0.0087
Proportion mediated, %		–14.50			–6.98			–9.52	
People between 18 and 40 years old who used statin for less than 6 months prior to study initiation included as non-statin group									
NDE	0.890	0.769–1.031	0.1197	0.885	0.804–0.975	0.0129	0.891	0.820–0.968	0.0065
ME/NIE	1.012	1.003–1.021	0.0072	1.009	1.003–1.014	0.0016	1.010	1.006–1.015	< 0.0001
Total effect	0.901	0.778–1.043	0.1617	0.893	0.811–0.983	0.0206	0.900	0.828–0.978	0.0130
Proportion mediated, %		–10.67			–7.05			–9.14	

MI, myocardial infarction; aHR, adjusted hazard ratios; CI, confidence interval; NDE, natural direct effect; ME, mediation effect; NIE, natural indirect effect.

<sup>a</sup>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.