Supplementary

Supplementary Table S1. Ischemic heart disease burden by disease subtype, Hangzhou, 2014–2021.

Outcome	Deaths	Total YLL	YLL per death
Ischemic heart disease	37,919	566,166.3	14.93
Acute myocardial infarction	13,292	249,179.8	18.75
Other acute IHD (I20/I24)	598	12,858.6	21.50
Chronic ischemic heart disease	24,024	304,025.7	12.66

Abbreviations: IHD, ischemic heart disease; YLL, years of life lost.

Supplementary Table S2. Attributable burden of non-optimal temperature for ischemic heart disease and major subtypes.

Disease	Endpoint	Component	Attributable number (95% CI)	AF, % (95% CI)
IHD	Mortality	All cold	6,621 (848 to 11,298)	17.46 (2.24 to 29.79)
IHD	Mortality	Moderate cold	6,295 (594 to 10,954)	16.60 (1.57 to 28.89)
IHD	Mortality	Extreme cold	408 (226 to 577)	1.08 (0.60 to 1.52)
IHD	Mortality	All heat	423 (167 to 646)	1.12 (0.44 to 1.70)
IHD	YLL	All cold	65,256 (-37,247 to 145,864)	11.53 (-6.58 to 25.76)
IHD	YLL	Moderate cold	60,290 (-41,749 to 140,738)	10.65 (-7.37 to 24.86)
IHD	YLL	Extreme cold	5,965 (2,872 to 8,601)	1.05 (0.51 to 1.52)
IHD	YLL	All heat	6,460 (1,247 to 11,165)	1.14 (0.22 to 1.97)

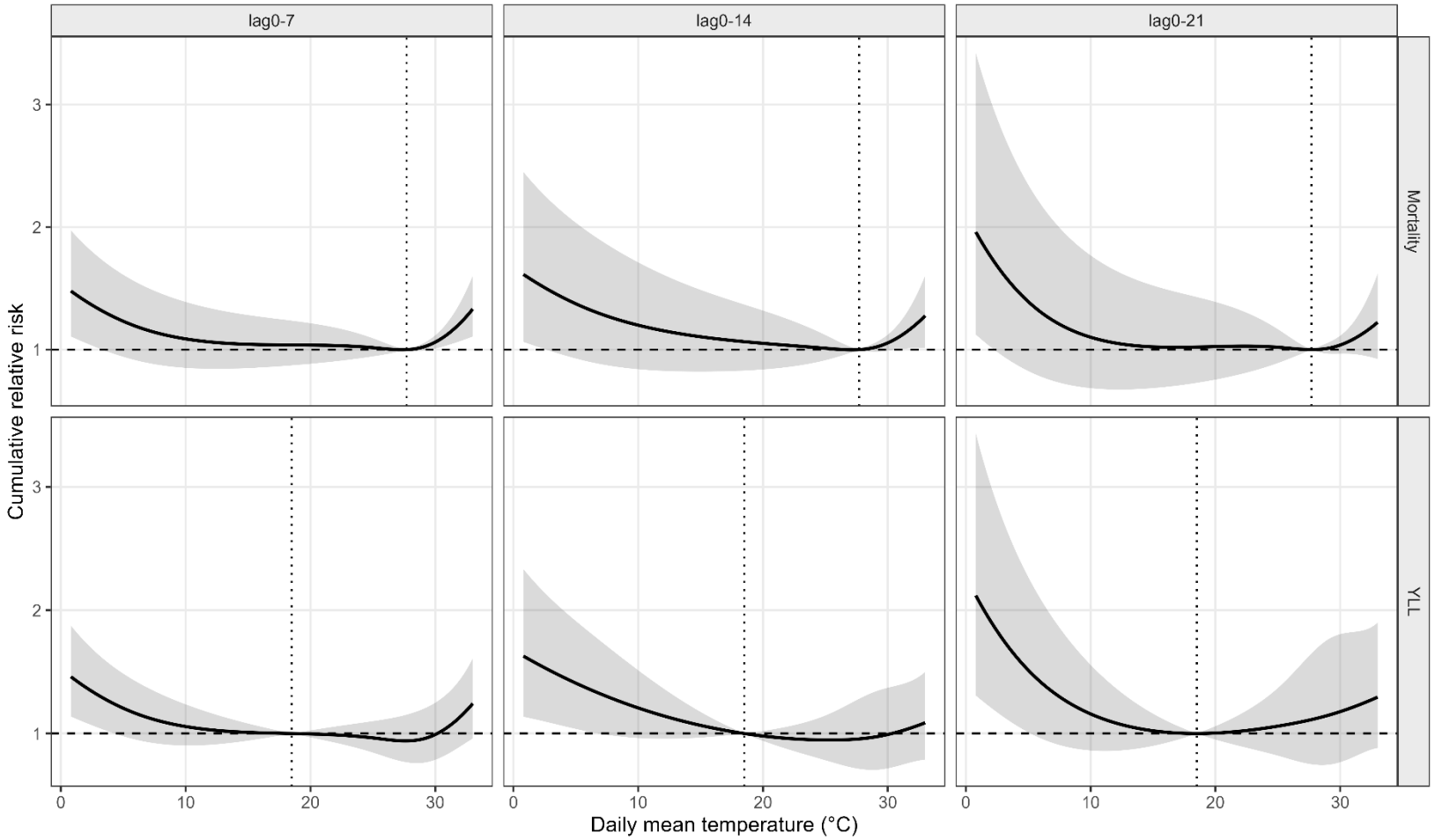
AMI	Mortality	All cold	1,204 (-3,108 to 4,149)	9.06 (-23.38 to 31.21)
AMI	YLL	All cold	25,431 (-6,442 to 49,970)	10.21 (-2.59 to 20.05)
Chronic IHD	Mortality	All cold	4,865 (290 to 8,372)	20.25 (1.21 to 34.85)
Chronic IHD	YLL	All cold	50,526 (-18,182 to 101,319)	16.62 (-5.98 to 33.33)

Abbreviations: IHD, ischemic heart disease; AMI, acute myocardial infarction; YLL, years of life lost; AF, attributable fraction; CI, confidence interval.

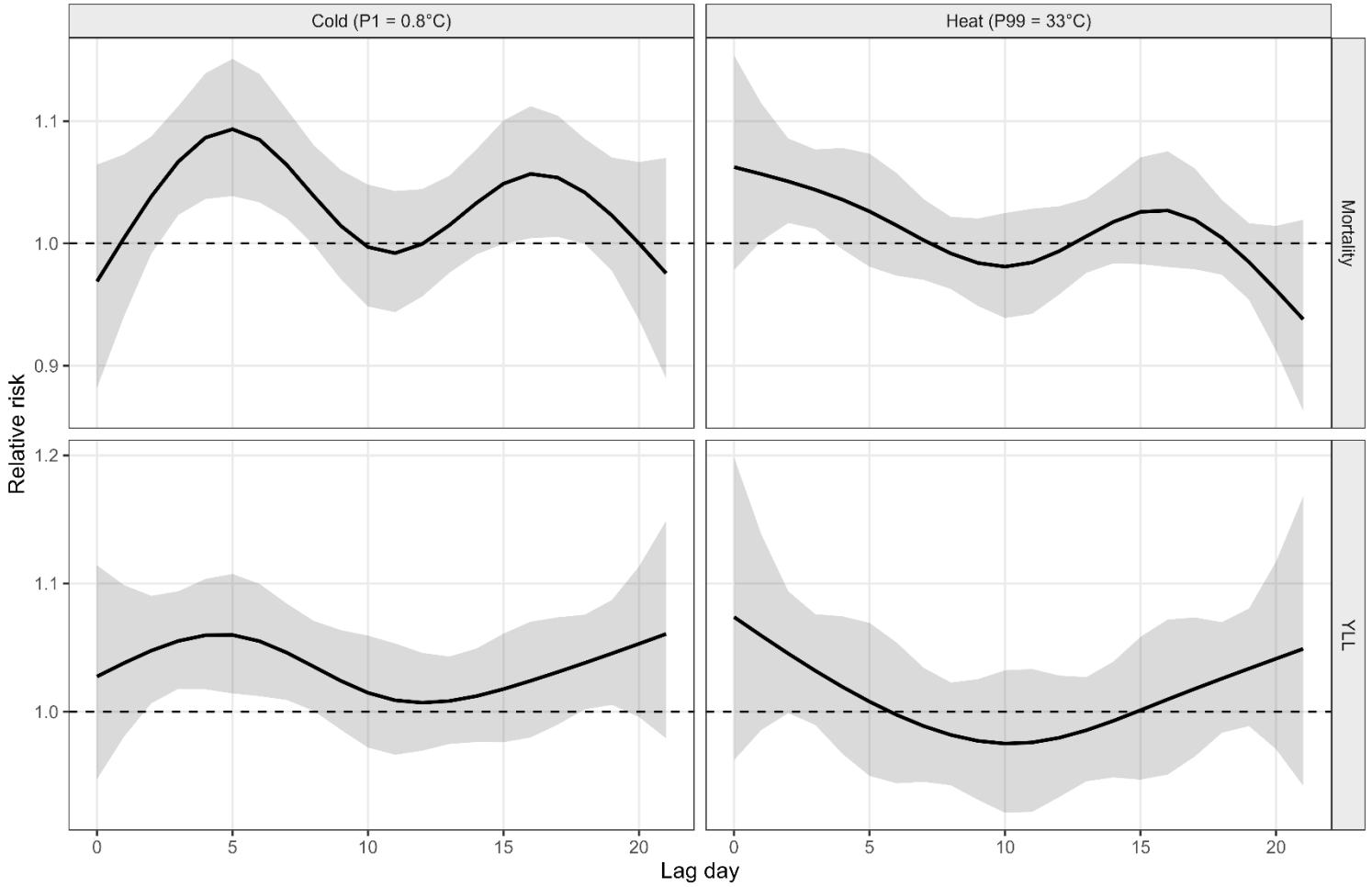
Supplementary Table S3. Effect-modification tests and descriptive subgroup estimates for overall ischemic heart disease.

Modifier	Endpoint	P for interaction	Cold RR, lag 0–21	Heat RR, lag 0–7
Age <75 vs >=75	Mortality	0.0246	2.47 vs 1.99	1.28 vs 1.34
Age <75 vs >=75	YLL	0.0316	2.29 vs 2.10	1.22 vs 1.32
Sex (female vs male)	Mortality	0.160	2.40 vs 1.65	1.53 vs 1.23
Sex (female vs male)	YLL	0.196	2.74 vs 1.78	1.48 vs 1.23
Area (core urban vs other)	Mortality	0.033	1.56 vs 4.41	1.40 vs 1.25
Area (core urban vs other)	YLL	0.111	1.49 vs 4.89	1.36 vs 1.21

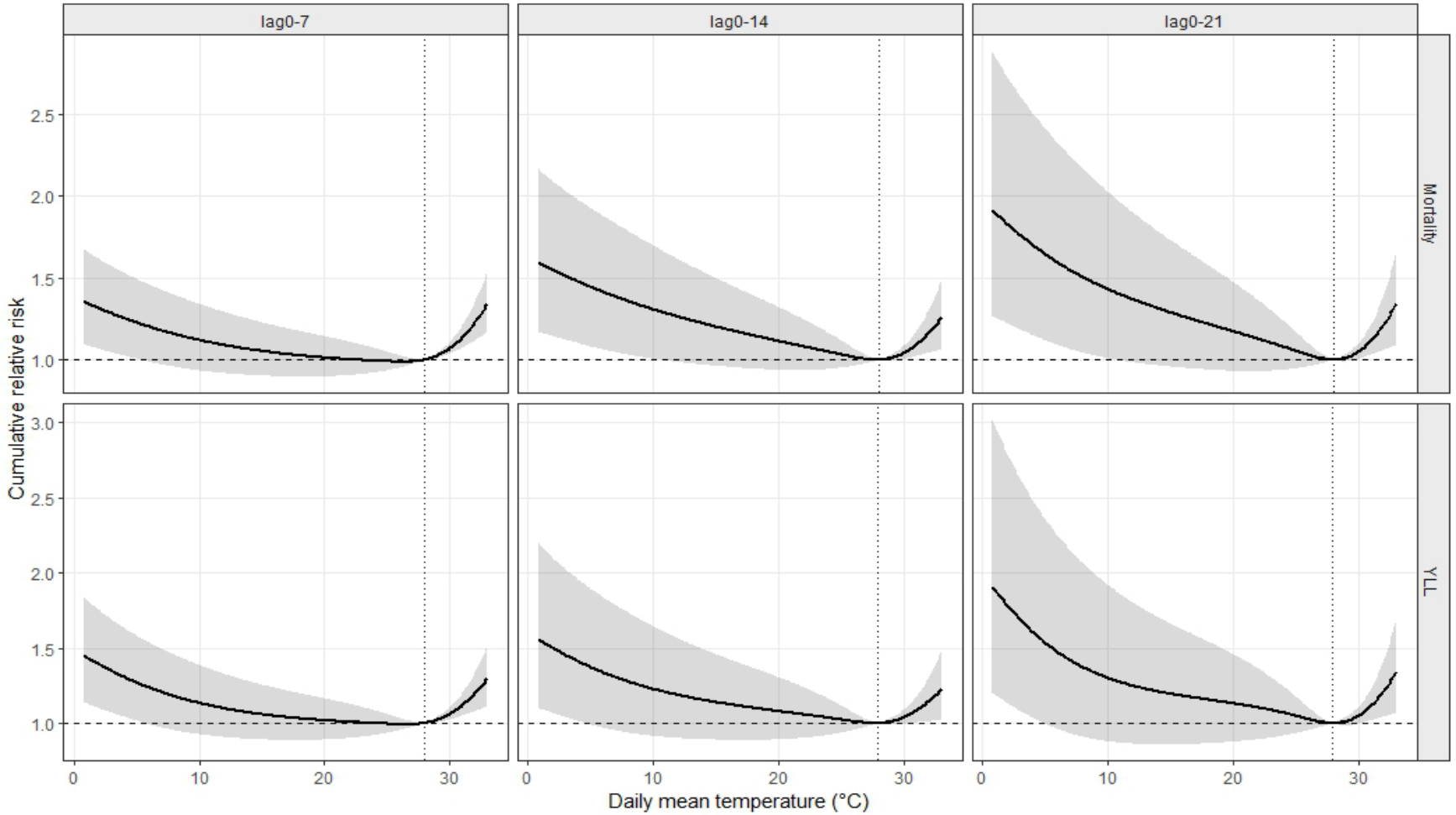
Abbreviations: IHD, ischemic heart disease; YLL, years of life lost; RR, relative risk.



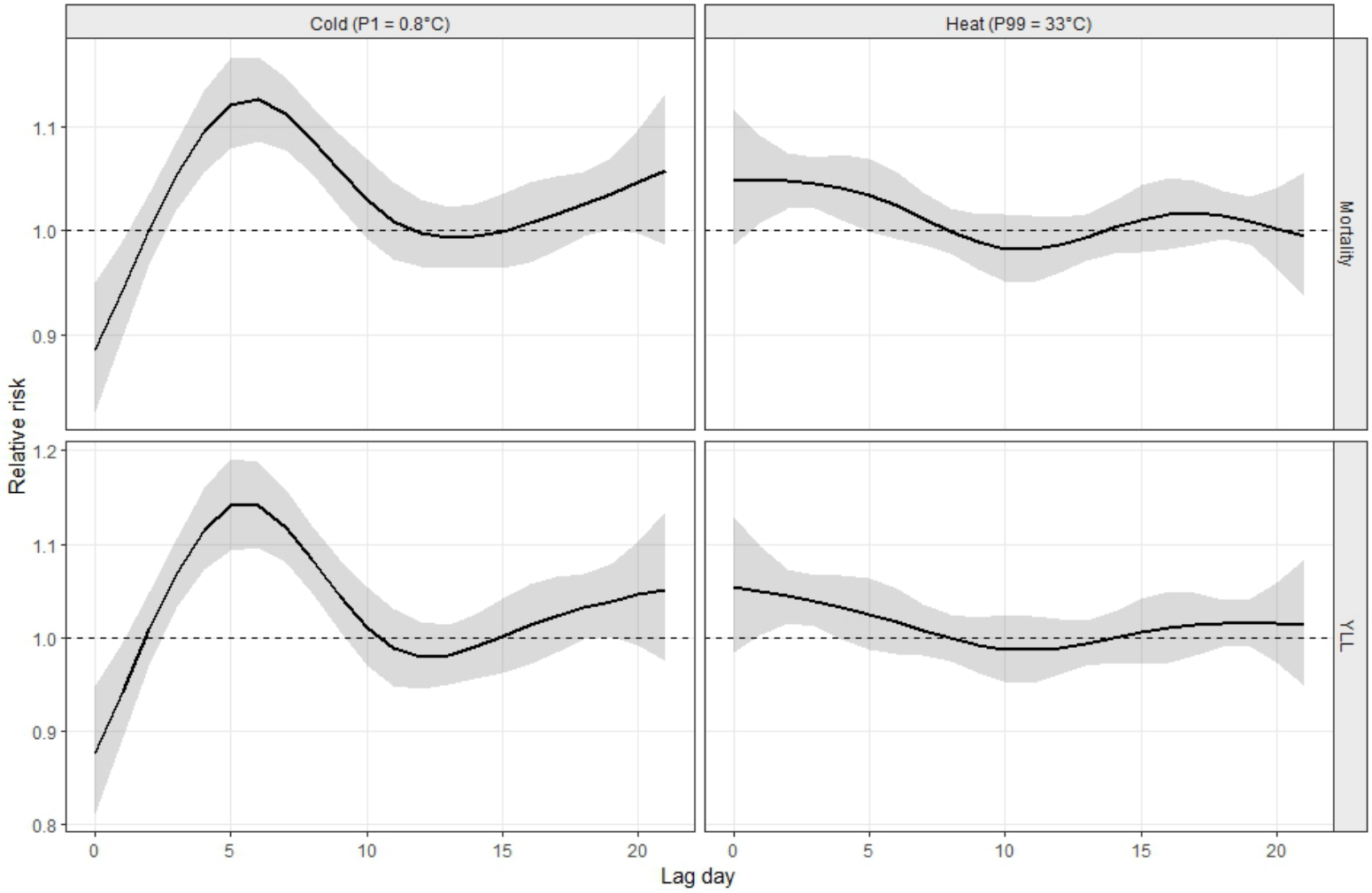
Supplementary_Figure_S1. Cumulative temperature–response associations with acute myocardial infarction mortality and years of life lost across different lag windows



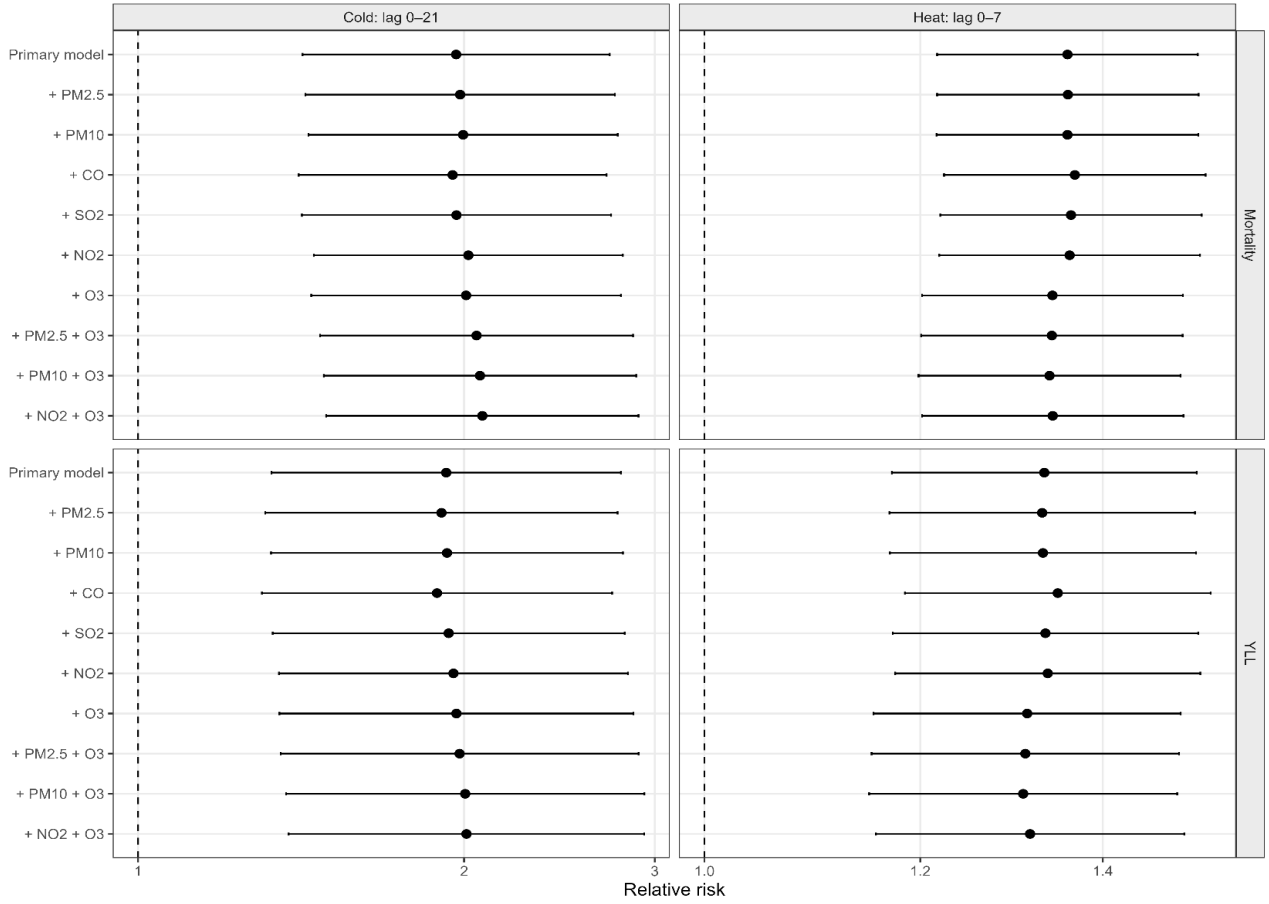
Supplementary_Figure_S2. Lag-specific effects of extreme cold and heat on acute myocardial infarction mortality and years of life lost



Supplementary_Figure_S3. Cumulative temperature–response associations with chronic ischemic heart disease mortality and years of life lost across different lag windows

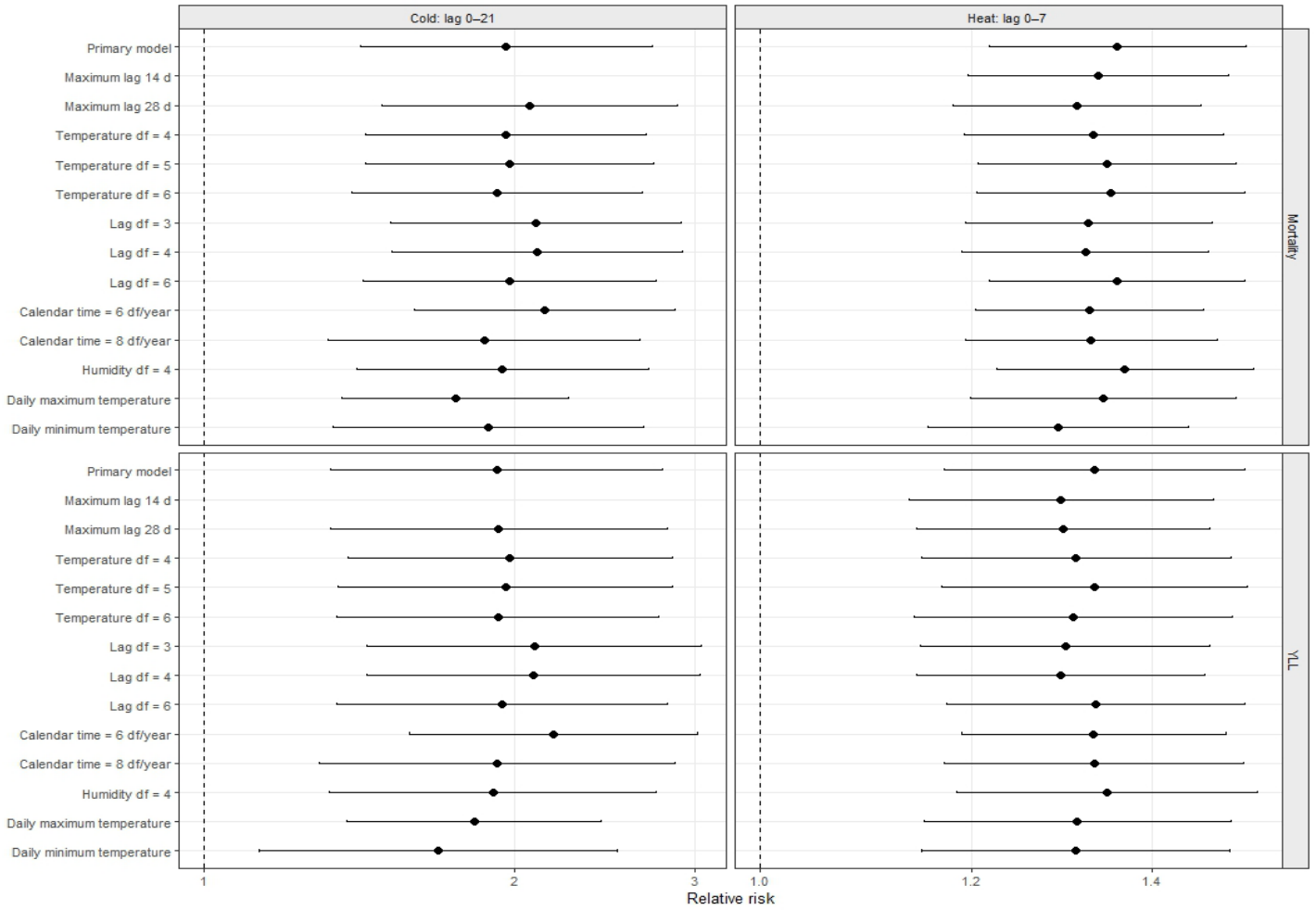


Supplementary_Figure_S4. Lag-specific effects of extreme cold and heat on chronic ischemic heart disease mortality and years of life lost

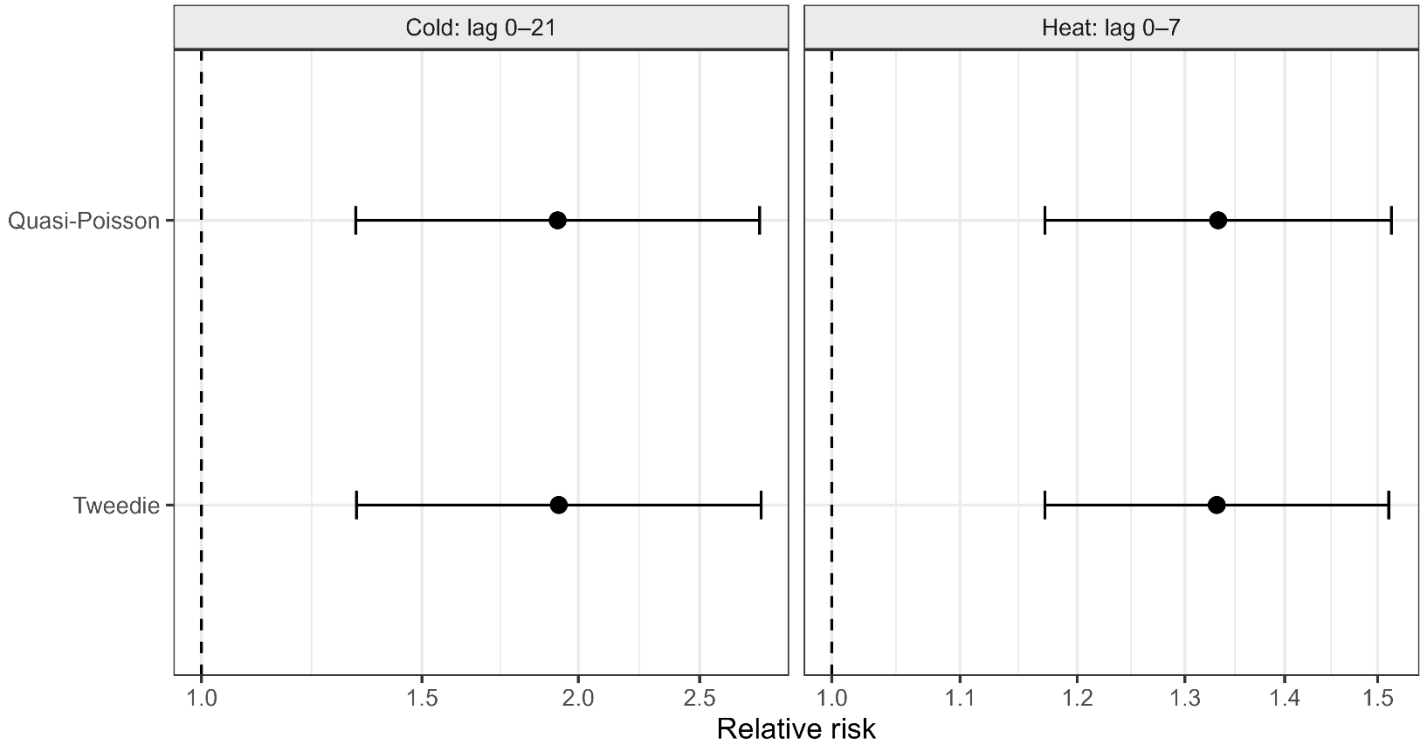


Supplementary_Figure_S5. Sensitivity of extreme temperature–IHD associations to adjustment for individual and combined air pollutants

Abbreviations: $PM_{2.5}$, particulate matter with an aerodynamic diameter ≤2.5 μm; PM_{10}, particulate matter with an aerodynamic diameter ≤10 μm; CO, carbon monoxide; SO_2, sulfur dioxide; NO_2, nitrogen dioxide; O_3, ozone; YLL, years of life lost.



Supplementary_Figure_S6. Sensitivity of extreme temperature–IHD associations to alternative model specifications and temperature metrics.



Supplementary_Figure_S7. Comparison of quasi-Poisson and Tweedie model estimates for temperature-related years of life lost from ischemic heart disease