

**Table S4** The cumulative effects of cold spells under the optimal definition using different degrees of freedom for air pressure in the DLM model

df for air pressure	Group	CRR (95% CI)			
		Lag0	Lag0-7	Lag0-14	Lag0-21
3 <sup>a</sup>	Total	1.042 (1.013-1.072)*	1.249 (1.136-1.374)*	1.343 (1.206-1.496)*	1.394 (1.193-1.630)*
	Male	1.042 (1.011-1.074)*	1.243 (1.123-1.375)*	1.316 (1.173-1.477)*	1.342 (1.136-1.586)*
	Female	1.041 (1.005-1.077)*	1.257 (1.119-1.411)*	1.383 (1.215-1.574)*	1.476 (1.211-1.783)*
	Age<65	1.017 (0.972-1.064)	1.120 (0.963-1.303)	1.159 (0.977-1.376)	1.107 (0.862-1.422)
	Age≥65	1.046 (1.017-1.077)*	1.275 (1.158-1.404)*	1.382 (1.240-1.540)*	1.456 (1.244-1.705)*
	4	Total	1.042 (1.012-1.071)*	1.248 (1.134-1.373)*	1.342 (1.205-1.495)*
Male	1.042 (1.011-1.074)*	1.240 (1.120-1.373)*	1.313 (1.170-1.475)*	1.340 (1.134-1.584)*	
Female	1.041 (1.005-1.078)*	1.259 (1.120-1.414)*	1.385 (1.216-1.578)*	1.478 (1.223-1.786)*	
Age<65	1.018 (0.973-1.065)	1.123 (0.965-1.306)	1.162 (0.978-1.380)	1.109 (0.863-1.425)	
Age≥65	1.046 (1.016-1.076)*	1.273 (1.156-1.402)*	1.380 (1.238-1.539)*	1.455 (1.242-1.704)*	
5	Total	1.041 (1.012-1.071)*	1.247 (1.133-1.373)*	1.342 (1.204-1.495)*	1.393 (1.191-1.629)*
	Male	1.042 (1.011-1.074)*	1.240 (1.120-1.374)*	1.314 (1.170-1.476)*	1.341 (1.134-1.585)*
	Female	1.041 (1.005-1.077)*	1.257 (1.118-1.413)*	1.383 (1.214-1.576)*	1.475 (1.220-1.784)*
	Age<65	1.019 (0.974-1.067)	1.129 (0.970-1.314)	1.168 (0.984-1.388)	1.115 (0.868-1.433)
	Age≥65	1.046 (1.016-1.076)*	1.271 (1.154-1.401)*	1.378 (1.235-1.537)*	1.452 (1.240-1.701)*

CI, confidence interval; df, degree of freedom; RR, relative risk.

\**P*<0.05.<sup>a</sup>Used in the study.