**Supplementary Data**

Fig. S1. Diagnostics of models: (a) plots of model residuals, (b) predicted and observed time-series plots, and (c) partial autocorrelation function of the residuals.

Fig. S2. Crude relationship between the relative risk (RR) of respiratory syncytial virus (RSV) (scaled to the mean weekly number of RSV cases) and diurnal temperature range (DTR) over lag periods of 0 to 16 weeks. The center line in the graph shows the estimated spline curve, and the upper and lower lines represent the 95% confidence limits.

Fig. S3. Relationship between relative risk (RR) of respiratory syncytial virus (RSV) scaled to mean weekly number of cases and mean temperature over lags of 0 to 16 weeks. The relationship was adjusted for diurnal temperature range, relative humidity, rainfall, seasonal variations, and inter-year variations. The center line in the graph shows the estimated spline curve, and the upper and lower lines represent the 95% confidence limits.

Protocol S1. Stata and R code to study time series.