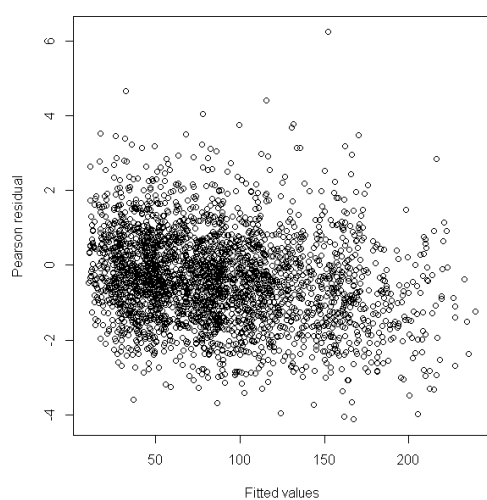




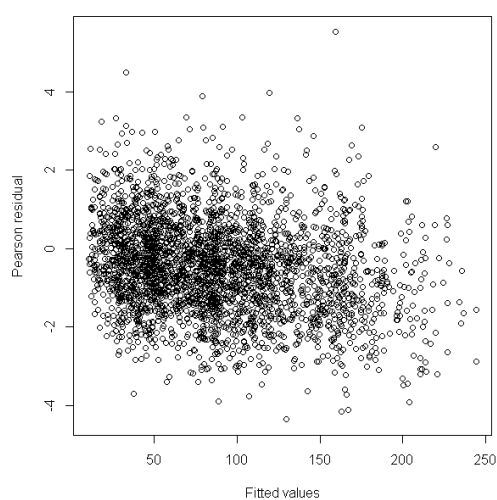
Supplementary material

Pearson residual plot of total mortality and PM_{2.5}



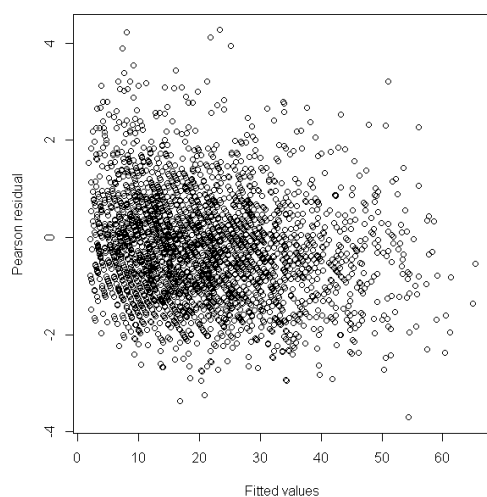
(a) total mortality and PM_{2.5}

Pearson residual plot of total mortality and PM₁₀



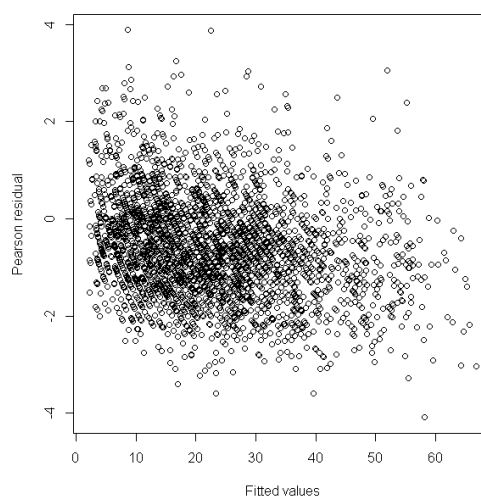
(b) total mortality and PM₁₀

Pearson residual plot of cardiovascular mortality and PM_{2.5}



(c) cardiovascular mortality and PM_{2.5}

Pearson residual plot of cardiovascular mortality and PM₁₀



(d) cardiovascular mortality and PM₁₀

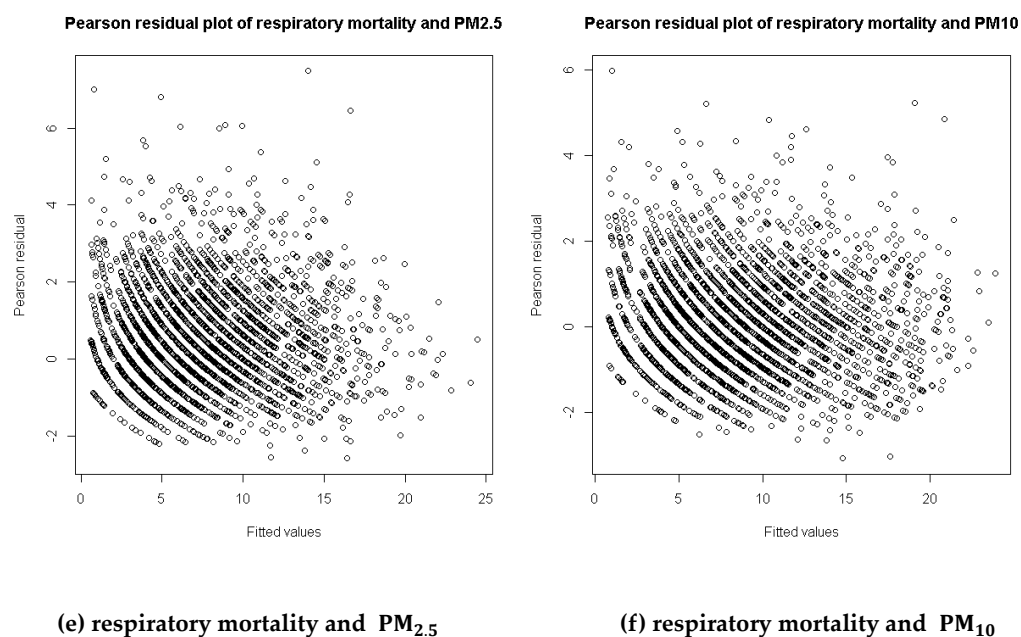


Figure S1. Plots of Pearson residuals versus the forecasted values for different types of mortality and air pollutants.

Figure S1 shows the plots of Pearson residuals. The x-axis indicates the forecasted death counts for 2015 and y-axis indicates the Pearson residuals of the observed death counts and forecasted death counts. Pearson residuals r_i are calculated using the following formula:

$$r_i = \frac{y_i - \hat{y}_i}{\sqrt{\hat{y}_i}} \text{ where } y_i \text{ is the observed death count and } \hat{y}_i \text{ is the forecasted death count.}$$