

## Supplementary materials

**Supplementary Material 2.** Estimated the Akaike Information Criterion (AIC) for model selection with covariates

Area deprivation index	AIC		
	Model 1 (Crude model)	Model 2	Model 3
Composite deprivation index	1,206.87	1,205.33	1,201.18
Economic deprivation index	1,189.99	1,189.45	1,170.78
Social deprivation index	1,197.07	1,196.17	1,184.42
Deprivation index of factors related to mortality	1,207.02	1,205.13	1,201.15

AIC, Akaike Information Criterion. <sup>†</sup> Estimated using a generalized linear model. Model 1: crude model; model 2: adjusted with the standardized prevalence of hypertension; and model 3: model 2 + adjusted with the standardized prevalence of diabetes.