Note S1. Technical Appendix of the Poisson age-period-cohort model

Sex-specific Poisson regression was used to estimate the relative risks (with 95% confidence intervals) of alcohol-related mortality by age, calendar period, and birth cohort. I assumed that the number of observed mortality cases, c_{ij} , out of a population size of n_{ij} women in age group i in time period j, followed a Poisson distribution with mean μ_{ij} . Under the full age-period-cohort model, the mean is specified as:

$$\log(\mu_{ij}) = \alpha_{age_i} + \beta_{period_i} + \gamma_{cohor_k} + \log(n_{ij}),$$

where α_{age_i} (i=1,...,I) is the age effect, β_{period_j} is the period effect (j=1,...,J), γ_{cohor_k} is the cohort effect $(k=1,...,K,\ k=I+j-i)$, and $\log(n_{ij})$ is the offset term.