**Supplementary eTable 1.** Results of sensitivity analysesa for age at onset of menarche in Seveso daughters exposed *in utero* to TCDD, Seveso Second Generation Study, Italy, 1976-2016.

|  |  |  |  |
| --- | --- | --- | --- |
| Analysis | All (n=316) | Pre-menarche (n=110) | Post-menarche (n=206) |
| Main analysisb | 0.86 (0.71, 1.04) | 0.71 (0.52, 0.97)\* | 0.89 (0.71, 1.12) |
| Maternal age at menarche |  |  |  |
| Time-varying covariate | 0.87 (0.73, 1.03) | 0.71 (0.53, 0.97)\* | 0.91 (0.74, 1.12) |
| Cubic spline | 0.87 (0.72, 1.04) | 0.72 (0.52, 0.98)\* | 0.90 (0.73, 1.12) |
| Stratify baseline hazard | 0.85 (0.72, 1.01) | 0.69 (0.49, 0.96)\* | 0.95 (0.78, 1.16) |
| Remove from model | 0.85 (0.71, 1.01) | 0.68 (0.49, 0.93)\* | 0.87 (0.71, 1.07) |
| Additional covariates |  |  |  |
| Year of birth (continuous) | 0.82 (0.67, 1.002) | 0.68 (0.49, 0.94)\* | 0.86 (0.68, 1.08) |
| Year of birth (cubic spline) | 0.81 (0.67, 0.99)\* | 0.71 (0.50, 0.99)\* | 0.84 (0.67, 1.06) |
| Cohort period | 0.80 (0.65, 0.98)\* | 0.66 (0.47, 0.91)\* | 0.84 (0.66, 1.05) |
| BMI category at interview | 0.87 (0.72, 1.05) | 0.71 (0.52, 0.97)\* | 0.91 (0.72, 1.14) |
| Maternal educationc | 0.88 (0.73, 1.06) | 0.71 (0.52, 0.96)\* | 0.91 (0.73, 1.14) |
| Alternate model types |  |  |  |
| Weibull | 0.75 (0.56, 1.004) | 0.64 (0.41, 0.99)\* | 0.77 (0.54, 1.10) |
| Discrete-time poisson | 0.85 (0.73, 0.99)\* | 0.50 (0.27, 0.89)\* | 1.04 (0.70, 1.54) |
| Subsets |  |  |  |
| First post-explosion livebirthd | 0.86 (0.72, 1.05) | 0.76 (0.57, 1.02) | 0.89 (0.70, 1.13) |
|  |  |  |  |

aCox proportional-hazards models, unless otherwise noted

bModels adjusted for maternal age at menarche and primary wage earner education.

cCovariate included instead of primary wage earner education

dN=200 (74 premenarche, 126 postmenarche)

**Supplementary eFigure 1.** Directed Acyclic Graph (DAG) used in construction of adjusted models.

