Supplemental Material

Exposure to Particulate Matter Air Pollution and Age of Menarche in a Nationwide Cohort of U.S. Girls

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Table S8. Hazard ratios (HRs) and 95% confidence intervals (CIs) for the associations between residential PM_{10}, $PM_{2.5-10}$, and $PM_{2.5}$ exposures and age at menarche using Cox proportional hazard models in the Growing Up Today Study 2, 1988–2008 who did not move during the study period (n = 1827).

Table S9. Hazard ratios (HRs) and 95% confidence intervals (CIs) for the associations between residential $PM_{2.5-10}$, and $PM_{2.5}$ exposures and age at menarche using Cox proportional hazard models in the Growing Up Today Study 2, 1988–2008 (n = 5,201) using multipollutant models.

Table S10. Hazard ratios (HRs) and 95% confidence intervals (CIs) for the associations between 1-year average residential PM_{10}, $PM_{2.5-10}$, and $PM_{2.5}$ exposures and age at menarche in the Growing Up Today Study 2, 1988–1995 (n = 5,201) further adjusting for cumulative average exposures.

Figure S1. Overview of exclusion criteria applied to the Growing Up Today Study 2 participants from 1988 to 2008.

Figure S2. Restricted cubic spline models to test the non-linear association between $PM_{2.5}$ and age at menarche in the Growing Up Today Study 2, 1988–2008 (n=5,201) (see Table S3).

Figure S3. Predicted survival time for girls in the Growing Up Today Study 2 (n=5,201) exposed to the 10th and 90th percentile for the in utero PM average from 1988 to 2008 using Cox proportional hazard model (see Table S5).

Figure S4. Predicted survival time for girls in the Growing Up Today Study 2 (n=5,201) exposed to the 10th and 90th percentile for the 1-year PM average from 1988 to 2008 using Cox proportional hazard model (see Table S6).

Figure S5. Predicted survival time for girls in the Growing Up Today Study 2 (n=5,201) exposed to the 10th and 90th percentile for the 2-year PM average from 1988 to 2008 using Cox proportional hazard model (see Table S7).