**Supplemental Table 1**. Multivariable-adjusted hazard ratios of menarche according to sociodemographic, anthropometric, and iron status indicators in middle childhood

|  |  |  |  |
| --- | --- | --- | --- |
|  | Complete case analysisn=1070 |  | Multiple imputation analysisn = 1464 |
|  | Adjustedhazard ratio(95% CI)a | *P*b |  | Adjustedhazard ratio(95% CI)c | *P* |
|  |  |  |  |  |  |
| Girl’s age at recruitment, per year | 0.95 (0.92, 0.99) | 0.01 |  | 0.95 (0.92, 0.98) | 0.004 |
|  |  |  |  |  |  |
| Girl’s height-for-age z-score, per unit | 1.33 (1.23, 1.43) | <0.0001 |  | 1.31 (1.23, 1.40) | <0.0001 |
|  |  |  |  |  |  |
| Girl’s BMI-for-age z-score, per unit | 1.12 (1.04, 1.22) | 0.004 |  | 1.14 (1.06, 1.22) | 0.0002 |
|  |  |  |  |  |  |
| Mother’s age at menarche, per year | 0.90 (0.86, 0.94) | <0.0001 |  | 0.92 (0.88, 0.96) | <0.0001 |
|  |  |  |  |  |  |
| Mother’s parity, per child | 0.98 (0.92, 1.04) | 0.52 |  | 0.98 (0.93, 1.04) | 0.46 |
|  |  |  |  |  |  |
| Socioeconomic status |  | 0.05 |  |  | 0.05 |
|  2 vs. 1 | 1.08 (0.84, 1.39) |  |  | 1.06 (0.84, 1.35) |  |
|  3 vs. 1 | 1.23 (0.96, 1.58) |  |  | 1.19 (0.95, 1.51) |  |
|  4 vs. 1 | 1.24 (0.88, 1.74) |  |  | 1.20 (0.88, 1.64) |  |
|  |  |  |  |  |  |
| Hemoglobin , per 1 SD (1.1 g/dL) | 1.08 (1.01, 1.15) | 0.03 |  | 1.07 (1.00, 1.14) | 0.04 |
|   |  |  |  |  |  |
| Plasma ferritin, per 1 SD (23.2 µg/L) | 0.93 (0.88, 0.98) | 0.01 |  | 0.93 (0.87, 0.98) | 0.01 |
|  |  |  |  |  |  |
| C-reactive protein, per 1 SD (2.9 mg/L) | 1.02 (0.95, 1.11) | 0.57 |  | 1.00 (0.93, 1.09) | 0.91 |
|  |  |  |  |  |  |

**Footnotes to Supplemental Table 1**

a From multivariable-adjusted Cox proportional hazards models with age at menarche as the outcome. Covariates included all variables presented. The robust sandwich covariance matrix estimate was specified in each model to account for siblings in the sample.

b Wald test. For socioeconomic status, test for trend (Wald) when a covariate representing ordinal categories of the predictor was introduced into the model as continuous.

c From multivariable-adjusted Cox proportional hazards models fit on a dataset obtained through Markov Chain Monte Carlo multiple imputation.