**Supplemental Table S1.**

Multilevel model results for girls: childhood behavior problems, age at menarche, and their interaction predicting late adolescent behavior problems

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Unstandardized Estimate (*SE*)**  **or Fit Statistic** | |
| **Outcome** | **Effect or Model Fit** | **Main Effects Model** | **Interaction Model** |
| **Age at** | *Fixed Effects*: |  |  |
| **first sex** | Intercept | 18.31 (.17)\*\*\* | 18.30 (.17)\*\*\* |
| *N* = 447 | Adoption status | -1.55 (.33)\*\*\* | -1.53 (.33)\*\*\* |
|  | **Child problems** | **-.98 (.34)\*\*** | **-.98 (.34)\*\*** |
|  | **Pubertal timing** | **.39 (.13)\*\*** | **.39 (.13)\*\*** |
|  | Child problems\*Pubertal timing | -- | -.15 (.32) |
|  | *Random Effect*: |  |  |
|  | Within-family intercept | 3.59 (.66)\*\*\* | 3.59 (.66)\*\*\* |
|  | *Model Fit*: |  |  |
|  | *AIC* | 2178.98 | 2180.76 |
|  |  |  |  |
| **Substance** | *Fixed Effects*: |  |  |
| **use** | Intercept | .97 (.03)\*\*\* | .97 (.03)\*\*\* |
| *N* = 448 | Adoption status | .16 (.05)\*\* | .16 (.05)\*\* |
|  | **Child problems** | **.10 (.05)⌃** | **.10 (.05)⌃** |
|  | **Pubertal timing** | **-.05 (.02)\*\*** | **-.05 (.02)\*\*** |
|  | Child problems\*Pubertal timing | -- | -.02 (.05) |
|  | *Random Effect*: |  |  |
|  | Within-family intercept | .11 (.02)\*\*\* | .11 (.02)\*\*\* |
|  | *Model Fit*: |  |  |
|  | *AIC* | 459.05 | 460.90 |
|  |  |  |  |
| **Conduct** | *Fixed Effects*: |  |  |
| **disorder** | Intercept | .52 (.04)\*\*\* | .52 (.04)\*\*\* |
| **symptoms** | Adoption status | .35 (.07)\*\*\* | .35 (.08)\*\*\* |
| *N* = 456 | **Child problems** | **.21 (.08)\*\*** | **.21 (.08)\*\*** |
|  | Pubertal timing | .02 (.03) | .02 (.03) |
|  | Child problems\*Pubertal timing | -- | .02 (.07) |
|  | *Random Effect*: |  |  |
|  | Within-family intercept | .21 (.04)\*\*\* | .20 (.04)\*\*\* |
|  | *Model Fit*: |  |  |
|  | *AIC* | 863.52 | 865.44 |
|  |  |  |  |
| **Externalizing** | *Fixed Effects*: |  |  |
| *N* = 431 | Intercept | 1.92 (.07)\*\*\* | 1.94 (.07)\*\*\* |
|  | Adoption status | .68 (.14)\*\*\* | .65 (.14)\*\*\* |
|  | **Child problems** | **1.47 (.15)\*\*\*** | **1.49 (.15)\*\*\*** |
|  | Pubertal timing | -.03 (.06) | -.04 (.06) |
|  | Child problems\*Pubertal timing | -- | .25 (.14) |
|  | *Random Effect*: |  |  |
|  | Within-family intercept | .69 (.12)\*\*\* | .67 (.12)\*\*\* |
|  | *Model Fit*: |  |  |
|  | *AIC* | 1359.58 | 1358.41 |
|  |  |  |  |
| **Depression** | *Fixed Effects*: |  |  |
| *N* = 332 | Intercept | 1.21 (.01)\*\*\* | 1.21 (.01)\*\*\* |
|  | Adoption status | .02 (.03) | .02 (.03) |
|  | Child problems | .03 (.02) | .03 (.02) |
|  | Pubertal timing | -.01 (.01) | -.004 (.01) |
|  | Child problems\*Pubertal timing | -- | .03 (.02) |
|  | *Random Effect*: |  |  |
|  | Within-family intercept | .01 (.002)\*\*\* | .01 (.002)\*\*\* |
|  | *Model Fit*: |  |  |
|  | *AIC* | -314.24 | -313.77 |
|  |  |  |  |
| **Internalizing** | *Fixed Effects*: |  |  |
| *N* = 431 | Intercept | 2.12 (.08)\*\*\* | 2.13 (.08)\*\*\* |
|  | Adoption status | .41 (.14)\*\* | .40 (.15)\*\* |
|  | **Child problems** | **.87 (.15)\*\*\*** | **.88 (.15)\*\*\*** |
|  | Pubertal timing | -.11 (.06) | -.11 (.06) |
|  | Child problems\*Pubertal timing | -- | .09 (.14) |
|  | *Random Effect*: |  |  |
|  | Within-family intercept | .74 (.13)\*\*\* | .75 (.13)\*\*\* |
|  | *Model Fit*: |  |  |
|  | *AIC* | 1370.65 | 1372.24 |
|  |  |  |  |

*Note*:The preferred model is shaded, and the significant predictors of interest (i.e., main effects and interaction) are in bold. **⌃***p* < .06 \**p* < .05 \*\**p* < .01 \*\*\**p* < .001.