**Supplementary Materials**

Table S1

*Raw Mean/probability Comparisons of Early Family Environments Indicators between Profiles*

|  |  |  |  |
| --- | --- | --- | --- |
|   | Latent profiles | F/chi-squared | Effectsize(η2/*OR*) |
| Predictor | Underprivileged SES/distressed | Underprivileged SES/healthy | Low SES/distressed | Low SES/healthy | Privileged SES/healthy |
| 9% | 18% | 25% | 29% | 19% |
| *M* orproportion |  |  |
| Married mother |  0.09a |  0.08a |  0.51b |  0.50b |  0.99 | 437.03\*\*\* | 0.81, 10.18, 9.88, 732.80 |
| Maternal education | 11.67a | 11.93a | 14.67b | 14.40b | 17.73 | 286.51\*\*\* | 0.49 |
| Income-to-needs ratio |  0.46a |  0.60a |  1.80b |  1.72b |  4.02 | 252.09\*\*\* | 0.48 |
| Occupational prestige | 31.13a  | 33.10a | 38.19b | 36.72b | 54.94 | 212.72\*\*\* | 0.44 |
| Maternal health insurance |  0.89a |  0.81a |  0.75a |  0.71a |  0.99 |  78.93\*\*\* | 0.54, 0.38, 0.13, 9.64 |
| Learning materials |  0.67a |  0.65a |  0.88b |  0.87b |  0.96 | 118.55\*\*\* | 0.29 |
| Economic strain | 2.85 |  2.39a |  2.53a |  2.18 |  1.80 |  70.38\*\*\* | 0.19 |
| Residential crowding |  1.03a |  1.10a |  0.86b |  0.88b |  0.67 |  48.90\*\*\* | 0.15 |
| Neighborhood safety |  2.61a |  2.58a |  2.99 |  3.09 |  3.40 |  92.45\*\*\* | 0.24 |
| Maternal depression | 1.18  |  0.14a | 0.78 |  0.09a |  0.14a | 255.82\*\*\* | 0.46 |
| Maternal anxiety | 1.02 |  0.08a | 0.76 |  0.09a |  0.23 | 226.22\*\*\* | 0.43 |
| Maternal somatization | 1.08 | 0.23 | 0.55 |  0.14a |  0.13a | 151.81\*\*\* | 0.34 |

*Note.* For the two binary indicators, married mothers and maternal health insurance, the proportions of mothers being married and having health insurance were presented; for the rest of the family environment indicators, raw means are presented; differing subscripts within rows indicate significantly different means at *p* < .05; for the effect sizes of the two binary indicators, we presented odds-ratios indicating the likelihood of mothers endorsing a particular response on each binary item (i.e., married, having insurance) depending on their profile membership, using the Underprivileged SES/distressed profile as a reference group.

\*\*\**p* < .001.

Table S2.

*Family Profiles Predicting Developmental Trajectories of EF and Maternal Sensitivity*

|  |  |
| --- | --- |
|   | Latent profiles  |
| Variable | Underprivileged SES/distressed | Underprivileged SES/healthy | Low SES/distressed | Low SES/healthy | Privileged SES/healthy |
| Growth of EF  |  |  |  |  |  |
| Intercept (*SE*) |  -0.76 (0.05)a\*\*\* | -0.79 (0.04)a\*\*\*  | -0.53 (0.03)b\*\*\* | -0.56 (0.03)b\*\*\* |  -0.28 (0.04)\*\*\* |
| Intercept variance (*SE*) |  0.10 (0.02)\*\*\* | 0.10 (0.02)\*\*\*  | 0.10 (0.02)\*\*\* | 0.10 (0.02)\*\*\* | 0.10 (0.02)\*\*\* |
| Slope (*SE*) |  0.43 (0.03)a,b\*\*\* |  0.42 (0.02)a,b\*\*\* |  0.39 (0.02)b\*\*\*  |  0.46 (0.02)a\*\*\*  |  0.42 (0.02)a,b\*\*\* |
| Slope variance (*SE*) |  0.03 (0.01)\*\*\*  | 0.03 (0.01)\*\*\* |  0.03 (0.01)\*\*\* | 0.03 (0.01)\*\*\*  | 0.03 (0.01)\*\*\*  |
| Covariance between residuals of intercept and slope (*SE*) |  0.00 (0.01) |  -0.02 (0.01)\* |  0.00 (0.01)  |  -0.02 (0.01) |  -0.03 (0.01)\*\*\* |
| EF  |  |  |  |  |  |
| Mean at 36 months (*SE*) |  -0.72 (0.06)a\*\*\*  |  -0.73 (0.04)a\*\*\* |  -0.52 (0.04)b\*\*\*  |  -0.56 (0.03)b\*\*\*  |  -0.32 (0.03)\*\*\* |
| Mean at 48 months (*SE*) |  -0.35 (0.05)a\*\*\* |  -0.40 (0.03)a\*\*\* |  -0.12 (0.03)b\*\* |  -0.11 (0.03)b\*\*\* |  0.19 (0.03)\*\*\* |
| Mean at 60 months (*SE*) |  0.11 (0.06)a\*  |  0.07 (0.03)a\* |  0.25 (0.03)\*\*\* |  0.35 (0.03)\*\*\* |  0.56 (0.02)\*\*\* |
| Sensitivity |  |  |  |  |  |
| Mean at 24 months (*SE*) |  2.54 (0.56) |  2.88 (0.54) |  3.28 (0.64)a |  3.30 (0.61)a |  4.04 (0.32) |

*Note*. Unstandardized coefficients and standard errors are presented; differing subscripts within rows indicate significantly different levels of the intercepts and slopes of EF, the means of EF, or the means of sensitivity at *p* < .05.

\**p* < .05; \*\**p* < .01; \*\*\**p* < .001.

Table S3.

*Interactions between Early Family Profiles and Maternal Sensitivity predicting the Growth of Child EF*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Interaction model | Underprivileged SES/distressed | Underprivileged SES/healthy | Low SES/distressed | Low SES/healthy | Privileged SES/healthy |
| *B* (*SE*) | *B* (*SE*) | *B* (*SE*) | *B* (*SE*) | *B* (*SE*) |
| Intercept (EF at 36 months) |
| Maternal sensitivity 24mos |  0.31 (0.13)\* |  -0.11 (0.06) |  0.10 (0.04)\* |  0.21 (0.04)\*\*\* |  0.06 (0.06)  |
| Child race  | -1.22 (0.25)\*\*\* |  0.14 (0.14) |  0.00 (0.09) |  -0.01 (0.08) |  0.20 (0.16) |
| Child sex  |  0.34 (0.17)\* |  0.04 (0.08) | -0.04 (0.06) |  -0.18 (0.06)\*\* |  -0.17 (0.07)\* |
| Early cognitive skills 15mos |  0.01 (0.01) |  0.01 (0.00)\* |  0.01 (0.00) |  0.01 (0.00) |  0.00 (0.00) |
| Maternal age 6mos | 0.03 (0.01)\*\* |  -0.02 (0.01)\*\* |  0.00 (0.01) |  0.00 (0.01) |  -0.01 (0.01) |
| State  |  -0.04 (0.22) |  -0.10 (0.14) |  -0.18 (0.08)\* |  -0.22 (0.08)\*\* | -0.35 (0.08)\*\*\* |
|   | Slope (the growth rate of EF from 36 to 60 months) |
| Maternal sensitivity 24mos | -0.61 (0.09)\*\*\* |  0.11 (0.04)\*\* | -0.02 (0.03) |  -0.07 (0.03)\*\* |  -0.04 (0.04) |
| Child race  | 1.58 (0.22)\*\*\* |  -0.15 (0.08) | -0.05 (0.05)  |  0.00 (0.05) |  -0.14 (0.10) |
| Child sex  |  -0.62 (0.11)\*\*\* |  -0.01 (0.05) |  0.02 (0.04) |  -0.02 (0.04) |  0.03 (0.04) |
| Early cognitive skills 15mos |  -0.01 (0.01)\*\* |  0.00 (0.00) |  0.01 (0.00)\*\* |  0.00 (0.00) |  0.00 (0.00) |
| Maternal age 6mos |  -0.03 (0.01)\*\*\* | 0.02 (0.00)\*\*\* |  0.00 (0.00)  |  0.00 (0.00) |  0.00 (0.01) |
| State |  -0.56 (0.16)\*\*\* |  0.06 (0.08) |  0.03 (0.05) |  0.09 (0.05) |  0.15 (0.05)\*\* |

*Note.* Unstandardized coefficients are presented; mos = months; child race was coded as 0 = White and 1 = Black; child sex was coded as 0 = female and 1 = male; state was coded as 0 = PA and 1 = NC.

\**p* < .05; \*\**p* < .01; \*\*\**p* < .001.