**Supplementary Materials**

Table S1

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Latent profiles | | | | | F/  chi-squared | Effect  size  (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.