**Supplemental material**

Table 1

*Correlations amongst all predictor variables (N = 42-45)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | First observation of index-finger points | Walk onset | SES | Sex | Birth order | Vocabulary size at 1;0 year |
| First observation of index-finger points | - | .435\*\* | -.101 | -.005 | .183 | -.136 |
| Walk onset |  | - | -.174 | -.135 | .277 | -.161 |
| SES |  |  | - | -.098 | .151 | -.164 |
| Sex |  |  |  | - | .078 | .100 |
| Birth order |  |  |  |  | - | -.074 |
| Vocabulary size at 1;0 year |  |  |  |  |  | - |

*Note*. SES: socioeconomic status operationalized via a principal components analysis of maternal and paternal years of education and household income, \*\**p* < .01.

Table 2

*Final results of multiple stepwise regression analyses predicting linguistic skills at 2;0 years*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Linguistic skills at 2;0 years | | Vocabulary size (*n* = 40) | Word comprehension (*n* = 38) | Sentence comprehension (*n* = 37) | Word production  (*n* = 40) | Sentence production  (*n* = 35) |
| Constant | *B* (*SE*) | 1540.1\*\*\*  (270.4) | 101.7\*\*\*  (18.39) | 130.2\*\*\*  (21.47) | 138.9\*\*\*  (21.44) | 118.5\*\*\*  (18.23) |
| Index-finger pointing | *B* (*SE*) | -78.79\*\*  (22.12) | -3.82\*  (1.47) | -6.58\*\*\*  (1.72) | -7.30\*\*\*  (1.71) | -5.67\*\*\*  (1.45) |
| *β* | -.438\*\* | -.394\* | -.538\* | -.564\*\*\* | -.556\*\*\* |
| Walk onset | *B* (*SE*) | -23.19\*  (10.38) |  |  |  |
| *β* | -.275\* |  |  |  |
| Vocabulary size at 1;0 year | *B (SE)* | 16.26\*  (6.27) |  |  |  |  |
| *β* | .304\* |  |  |  |  |
| *R2* | | .51 | .16 | .29 | .32 | .31 |
| *F* | | 12.79\*\*\* | 6.78\* | 14.69\*\*\* | 18.19\*\*\* | 15.22\*\*\* |

*Note*. Final models of 5 stepwise regressions with the independent variables first observation of index-finger pointing, walk onset, SES (socioeconomic status), sex, birth order, and vocabulary size at 1;0 year and the dependent variables vocabulary size, sentence comprehension, and word and sentence production at 2;0 years. SES, sex, and birth order are not visible in the table since they did not improve the ability of the models to predict the outcome variables. \**p* < .05, \*\*\**p* ≤ .001.

Table 3

*Final results of multiple stepwise regression analyses predicting linguistic skills at 3;0 years*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Linguistic skills at 3;0 years | | Sentence comprehension (*n* = 33) | Word production  (*n* = 34) | Sentence production  (*n* = 33) |
| Constant | *B* (*SE*) | 121.8\*\*\*  (17.70) | 94.25\*\*\*  (11.80) | 115.3\*\*\*  (19.43) |
| Index-finger pointing | *B* (*SE*) | -6.60\*\*\*  (1.46) | -3.84\*\*\*  (0.94) | -5.16\*\*  (1.54) |
| *β* | -.557\*\*\* | -.550\* | -.483\*\* |
| SES | *B (SE)* | 5.18\*\*  (1.59) | 2.28\*  (1.06) | 3.70\*  (1.80) |
| *β* | .383\*\* | .288\* | .297 |
| Birth order | *B (SE)* | 4.43\*  (1.64) |  |  |
| *β* | .331\* |  |  |
| Sex | *B (SE)* | 6.23\*  (2.77) |  |  |
| *β* | .261\* |  |  |
| *R2* | | .62 | .44 | .38 |
| *F* | | 11.57\*\*\* | 12.39\*\*\* | 9.35\*\*\* |

*Note*. Final models of 3 stepwise regressions with the independent variables first observation of index-finger pointing, walk onset, SES (socioeconomic status), sex, birth order, and vocabulary size at 1;0 year and the dependent variables sentence comprehension, word and sentence production at 3;0 years. Walk onset and vocabulary size at 1,0 year are not visible in the table since they did not improve the ability of the models to predict the outcome variables. \**p* < .05, \*\**p* < .01, \*\*\**p* ≤ .001.

Table 4

*Final results of multiple stepwise regression analyses predicting linguistic skills at 4;0 years*

|  |  |  |  |
| --- | --- | --- | --- |
| Linguistic skills at 4;0 years | | Word production  (*n* = 36) | Grammar  (*n* = 33) |
| Constant | *B* (*SE*) | 113.4\*\*\*  (15.79) | 99.74\*\*\*  (12.91) |
| Index-finger pointing | *B* (*SE*) | -4.94\*\*\*  (1.25) | -3.51\*\*  (1.03) |
| *β* | -.472\*\*\* | -.440\*\* |
| SES | *B (SE)* | 5.68\*\*\*  (1.35) | 3.91\*\*\*  (1.08) |
| *β* | .505\*\*\* | .468\*\*\* |
| *R2* | | .51 | .46 |
| *F* | | 18.0\*\*\* | 13.88\*\*\* |

*Note*. Final models of 2 stepwise regressions with the independent variables first observation of index-finger pointing, walk onset, SES (socioeconomic status), sex, birth order, and vocabulary size at 1;0 year and the dependent variables word production and grammar abilities at 4;0 years. Walk onset, sex, birth order, and vocabulary size at 1,0 year are not visible in the table since they did not improve the ability of the models to predict the outcome variables. \*\**p* < .01, \*\*\**p* ≤ .001.