

## Supplemental Material S4. Sensitivity analyses for correlations among effects and long-term outcomes.

*Note:*  $g$  represents the average effect size at long-term timepoints.  $\beta$  represents the association of the predictor with long-term outcomes.

Dataset: all data ( $k = 20$ ,  $n = 129$ )

Predictor: none

Rho	$g$	$p$	CI
.2	.275	.00397	0.0998–0.451
.4	.243	.00204	0.102–0.385
<b>.6</b>	<b>.218</b>	<b>.00167</b>	<b>0.095–0.34</b>
.8	.209	.00183	0.0905–0.327

Dataset: all data

Predictor: outcome type

Estimates for prelinguistic outcomes ( $k = 13$ ,  $n = 54$ )

Rho	$g$	$p$	CI
.2	.412	< .001	0.1948–0.629
.4	.385	< .001	0.1962–0.574
<b>.6</b>	<b>.355</b>	<b>&lt; .001</b>	<b>0.1180–0.521</b>
.8	.326	< .001	0.1745–0.478

Dataset: all data

Predictor: outcome type

Estimates for linguistic outcomes ( $k = 18$ ,  $n = 75$ )

Rho	$g$	$p$	CI
.2	.189	.0883	-0.0312–0.409
.4	.162	.0929	-0.0297–0.353
<b>.6</b>	<b>.138</b>	<b>.101</b>	<b>-0.0296–0.305</b>
.8	.119	.107	-0.0291–0.267

Dataset: linguistic outcomes

Predictor: etiology of language impairment

Estimates for children with autism ( $k = 11$ ,  $n = 24$ )

Rho	$g$	$p$	CI
.2	.0323	.7202	-0.163–0.228
.4	.0224	.7933	-0.1638–0.209
<b>.6</b>	<b>.0122</b>	<b>.8805</b>	<b>-0.16518–0.19</b>
.8	.00345	.9651	-0.0233–0.656

Dataset: linguistic outcomes

Predictor: etiology of language impairment

Estimates for children with developmental language disorder ( $k = 7, n = 51$ )

Rho	$g$	$p$	CI
.2	.4797	.0676	-0.048–1.007
.4	.4196	.0554	-0.0136–0.853
<b>.6</b>	<b>.3627</b>	<b>.0519</b>	<b>-0.00426–0.73</b>
.8	.31612	.0617	-0.0233–0.656

Dataset: prelinguistic outcomes

Predictor: post-test effect sizes

Estimate of association between post-test effects and long-term outcomes ( $k = 11, n = 32$ )

Rho	$\beta$	$p$	CI
.2	.509	< .001	0.3883–0.629
.4	.492	< .001	0.3813–0.603
<b>.6</b>	<b>.489</b>	<b>&lt; .001</b>	<b>0.3768–0.602</b>
.8	.488	< .001	0.376–0.600

Dataset: linguistic outcomes

Predictor: post-test effect sizes

Estimate of association between post-test effects and long-term outcomes ( $k = 8, n = 26$ )

Rho	$\beta$	$p$	CI
.2	Did not converge		
.4	.48433	.0383	0.0558–0.913
<b>.6</b>	<b>.43307</b>	<b>.044</b>	<b>0.0262–0.840</b>
.8	.3803	.118	-0.242–1.002

Dataset: prelinguistic outcomes

Predictor: time to follow-up

Estimate of association between post-test effects and time to follow-up ( $k = 12, n = 52$ )

Rho	$\beta$	$p$	CI
.2	.00251	.878	-0.0359–0.0409
.4	.00154	.925	-0.0366–0.0396
<b>.6</b>	<b>.000878</b>	<b>.957</b>	<b>-0.0380–0.0398</b>
.8	.000211	.990	-0.0401–0.0405

Dataset: linguistic outcomes

Predictor: time to follow-up

Estimate of association between post-test effects and time to follow-up ( $k = 17, n = 73$ )

Rho	$\beta$	$p$	CI
.2	-.0166	.0965	-0.0393–0.00603
.4	-.0171	.0823	-0.0386–0.00446
<b>.6</b>	<b>-.0176</b>	<b>.0709</b>	<b>-0.0382–0.00308</b>
.8	-.0178	.0694	-0.0384–0.00286

