

Supplementary Material

Table 5. Associations of Salivary Testosterone and Cortisol Levels with Physical Growth (Bodyweight, Length, & Head Circumference), Development (Cognitive, Motor, Language, & Socioemotional), and Health (Technology-Dependence & Common Health Problems) among VLBW Infants over the 2 Years after Birth Using Bayesian Model

Effect	Estimate	95% CI	BF	Effect	Estimate	95% CI	BF
<u>Body weight</u>							
Testosterone	-0.021	(-0.051, 0.008)	0.042	Cortisol	0.004	(-1.711, 1.699)	0.869
Time	0.179	(0.104, 0.252)	>10	Time	0.234	(0.187, 0.279)	>10
Testosterone*Time	0.002	(0.000, 0.005)	0.024	Cortisol*Time	0.001	(-0.161, 0.164)	0.510
<u>Length</u>							
Testosterone	-0.072	(-0.122, -0.021)	1.324	Cortisol	-0.085	(-1.969, 1.769)	0.956
Time	0.950	(0.828, 1.071)	>10	Time	1.087	(1.014, 1.159)	>10
Testosterone*Time	0.004	(0.000, 0.007)	4.212	Cortisol*Time	0.088	(-0.149, 0.327)	2.600
<u>Head circumference</u>							
Testosterone	-0.045	(-0.067, -0.022)	>10	Cortisol	-0.568	(-2.210, 1.043)	1.041
Time	0.140	(0.085, 0.195)	>10	Time	0.235	(0.195, 0.275)	>10
Testosterone*Time	0.003	(0.001, 0.005)	>10	Cortisol*Time	0.018	(-0.125, 0.165)	0.617
<u># of Technology-Dependent</u>							
Testosterone	-0.006	(-0.038, 0.025)	0.017	Cortisol	-0.318	(-2.078, 1.419)	0.931
Time	-0.026	(-0.109, 0.054)	0.050	Time	-0.013	(-0.064, 0.037)	0.027
Testosterone*Time	0.000	(-0.002, 0.003)	0.001	Cortisol*Time	-0.008	(-0.191, 0.164)	0.026
<u># of Common health problems</u>							
Testosterone	-0.001	(-0.012, 0.011)	0.006	Cortisol	-0.238	(-1.312, 0.830)	0.595
Time	0.006	(-0.021, 0.034)	0.017	Time	0.004	(-0.017, 0.026)	0.011
Testosterone*Time	0.000	(-0.001, 0.001)	0.000	Cortisol*Time	0.014	(-0.067, 0.094)	0.007

table continued

Table 5 continued.

<u>Cognitive development</u>							
Testosterone	-0.239	(-0.550, 0.062)	0.455	Cortisol	-0.066	(-1.929, 1.896)	0.997
Time	-0.334	(-1.103, 0.395)	0.609	Time	0.196	(-0.238, 0.612)	0.320
Testosterone*Time	0.015	(-0.009, 0.039)	0.199	Cortisol*Time	-0.206	(-1.346, 0.969)	0.308
<u>Language development</u>							
Testosterone	-0.173	(-0.464, 0.130)	0.276	Cortisol	-0.044	(-1.993, 1.854)	1.030
Time	-0.646	(-1.374, 0.115)	1.784	Time	-0.220	(-0.621, 0.198)	0.370
Testosterone*Time	0.011	(-0.012, 0.034)	0.272	Cortisol*Time	-0.326	(-1.466, 0.817)	0.348
<u>Motor development</u>							
Testosterone	-0.067	(-0.370, 0.235)	0.172	Cortisol	-0.071	(-2.023, 1.905)	1.034
Time	0.234	(-0.505, 0.972)	0.459	Time	0.373	(-0.042, 0.773)	0.993
Testosterone*Time	0.001	(-0.021, 0.025)	0.081	Cortisol*Time	-0.127	(-1.276, 1.096)	0.643
<u>Socioemotional development</u>							
Testosterone	-0.234	(-0.681, 0.200)	0.384	Cortisol	0.026	(-1.929, 2.027)	1.037
Time	0.867	(-0.224, 1.907)	2.043	Time	1.367	(0.786, 1.926)	>10
Testosterone*Time	0.031	(-0.004, 0.066)	0.854	Cortisol*Time	0.689	(-0.629, 2.039)	3.389

Note: CI = Credible interval, BF = Bayesian factor