

Supplemental Table 1

3-month EEG data	Outcome			Statistics	
	EFL-ASD	EFL-NoASD	LL-NoASD	Kruskal Wallis H statistic	Kruskal Wallis p-value
Absolute Gamma	-18.9 (2.6)	-18.7 (3.9)	-18.1 (2.8)	2.02	0.36
Aperiodic Offset	-0.16 (0.2)	-0.18 (0.18)	-0.14 (0.16)	0.82	0.66
Aperiodic Slope	1.08 (0.11)	1.06 (0.15)	1.03 (0.11)	2.39	0.30
Total Aperiodic Activity	-62.9 (9.0)	-63.4 (12.1)	59.6 (9.3)	4.78	0.09
Periodic Gamma	2.15 (0.67)	2.47 (1.5)	1.92 (1.1)	4.00	0.13

**Supplemental Table 2**

<i>Predictors</i>	<b>Aperiodic Total Power</b>				<b>Aperiodic Offset</b>				<b>Aperiodic Exponent</b>			
	<i>Estimates</i>	<i>std. Error</i>	<i>Statistic</i>	<i>p</i>	<i>Estimates</i>	<i>std. Error</i>	<i>Statistic</i>	<i>p</i>	<i>Estimates</i>	<i>std. Error</i>	<i>Statistic</i>	<i>p</i>
(Intercept)	-63.39	0.18	-30.64	<b>&lt;0.01</b>	-0.19	0.18	-4.56	<b>&lt;0.01</b>	1.05	0.25	40.11	<b>&lt;0.01</b>
age	20.52	0.24	7.39	<b>&lt;0.01</b>	0.44	0.23	8.19	<b>&lt;0.01</b>	0.06	0.32	1.71	0.09
Outcome [EFL-NoASD]	-1.64	0.26	-0.56	0.58	-0.02	0.25	-0.28	0.78	0.01	0.36	0.40	0.69
Outcome[LL-NoASD]	3.75	0.21	1.55	0.12	0.06	0.21	1.13	0.26	-0.02	0.29	-0.53	0.60
sex	0.11	0.13	0.07	0.94	0.02	0.13	0.52	0.60	0.01	0.18	0.75	0.45
age × Outcome [EFL-NoASD]	-4.50	0.34	-1.15	0.25	-0.15	0.32	-2.00	<b>0.05</b>	-0.07	0.46	-1.49	0.14
age × Outcome [LL-NoASD]	-6.67	0.29	-2.04	<b>0.04</b>	-0.13	0.27	-2.08	<b>0.04</b>	-0.01	0.38	-0.17	0.86
<b>Random Effects</b>												
$\sigma^2$	61.69				0.02				0.01			
$\tau_{00}$	4.69				0.00				0.00			
ICC	0.07				0.14				0.15			
N	73				73				73			
Observations	146				146				146			
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.504 / 0.539				0.528 / 0.593				0.057 / 0.203			

