

Supplementary Table 1. Results of the linear regression models of motor function (regardless of age).

PANESS						
outcome	Predictor	Coefficient	SE	<i>t</i> -value	<i>p</i> -value	95% CI
Total timed	<b>TD Boy</b>	<b>6.75</b>	<b>0.66</b>	<b>10.2</b>	<b>&lt;0.001</b>	<b>(5.44, 8.05)</b>
overflow	<b>ADHD Boy</b>	<b>11.95</b>	<b>0.54</b>	<b>22.19</b>	<b>&lt;0.001</b>	<b>(10.89, 13.01)</b>
	<b>TD Girl</b>	<b>7.17</b>	<b>0.84</b>	<b>8.58</b>	<b>&lt;0.001</b>	<b>(5.52, 8.81)</b>
	<b>ADHD Girl</b>	<b>10.21</b>	<b>0.74</b>	<b>13.73</b>	<b>&lt;0.001</b>	<b>(8.74, 11.67)</b>
	<b>TD-Boys vs. ADHD-Boys</b>	<b>5.2</b>	<b>0.85</b>	<b>6.1</b>	<b>&lt;0.001</b>	<b>(3.52, 6.88)</b>
	<b>TD-Girls vs. ADHD-Girls</b>	<b>3.04</b>	<b>1.12</b>	<b>2.72</b>	<b>0.007</b>	<b>(0.84, 5.24)</b>
	TD-Girls vs. TD-Boys	0.42	1.07	0.39	0.690	(-1.68, 2.52)
	ADHD-Girls vs. ADHD Boys	-1.74	0.92	-1.9	0.060	(-3.55, 0.06)
Total	<b>TD Boy</b>	<b>4.21</b>	<b>0.33</b>	<b>12.93</b>	<b>&lt;0.001</b>	<b>(3.57, 4.85)</b>
dysrhythmia	<b>ADHD Boy</b>	<b>5.42</b>	<b>0.26</b>	<b>20.55</b>	<b>&lt;0.001</b>	<b>(4.9, 5.94)</b>
	<b>TD Girl</b>	<b>3.69</b>	<b>0.41</b>	<b>8.98</b>	<b>&lt;0.001</b>	<b>(2.88, 4.5)</b>
	<b>ADHD Girl</b>	<b>5.58</b>	<b>0.37</b>	<b>15.26</b>	<b>&lt;0.001</b>	<b>(4.86, 6.31)</b>
	<b>TD-Boys vs. ADHD-Boys</b>	<b>1.21</b>	<b>0.42</b>	<b>2.89</b>	<b>&lt;0.001</b>	<b>(0.39, 2.04)</b>
	<b>TD-Girls vs. ADHD-Girls</b>	<b>1.89</b>	<b>0.55</b>	<b>3.44</b>	<b>&lt;0.001</b>	<b>(0.81, 2.98)</b>
	TD-Girls vs. TD-Boys	-0.52	0.52	-0.99	0.320	(-1.55, 0.51)
	ADHD-Girls vs. ADHD Boys	0.16	0.45	0.36	0.720	(-0.73, 1.05)
Total time	<b>TD Boy</b>	<b>28.18</b>	<b>0.7</b>	<b>40.27</b>	<b>&lt;0.001</b>	<b>(26.8, 29.55)</b>
Repetitive tasks	<b>ADHD Boy</b>	<b>30.17</b>	<b>0.57</b>	<b>53.2</b>	<b>&lt;0.001</b>	<b>(29.05, 31.29)</b>
	<b>TD Girl</b>	<b>29.13</b>	<b>0.88</b>	<b>32.97</b>	<b>&lt;0.001</b>	<b>(27.39, 30.87)</b>

	<b>ADHD Girl</b>	<b>32.7</b>	<b>0.79</b>	<b>41.57</b>	<b>&lt;0.001</b>	<b>(31.16, 34.25)</b>
	TD-Boys vs. ADHD-Boys	1.99	0.9	2.21	0.030	(0.22, 3.77)
	<b>TD-Girls vs. ADHD-Girls</b>	<b>3.57</b>	<b>1.18</b>	<b>3.02</b>	<b>0.003</b>	<b>(1.24, 5.9)</b>
	TD-Girls vs. TD-Boys	0.96	1.13	0.85	0.400	(-1.26, 3.18)
	<b>ADHD-Girls vs. ADHD Boys</b>	<b>2.54</b>	<b>0.97</b>	<b>2.61</b>	<b>0.009</b>	<b>(0.63, 4.45)</b>
Total time	<b>TD Boy</b>	<b>38.85</b>	<b>1.19</b>	<b>32.65</b>	<b>&lt;0.001</b>	<b>(36.51, 41.2)</b>
Sequential	<b>ADHD Boy</b>	<b>40.46</b>	<b>0.96</b>	<b>41.95</b>	<b>&lt;0.001</b>	<b>(38.56, 42.36)</b>
tasks	<b>TD Girl</b>	<b>37.47</b>	<b>1.5</b>	<b>24.93</b>	<b>&lt;0.001</b>	<b>(34.51, 40.43)</b>
	<b>ADHD Girl</b>	<b>42.2</b>	<b>1.34</b>	<b>31.54</b>	<b>&lt;0.001</b>	<b>(39.57, 44.84)</b>
	TD-Boys vs. ADHD-Boys	1.61	1.53	1.05	0.300	(-1.41, 4.62)
	TD-Girls vs. ADHD-Girls	4.73	2.01	2.35	0.019	(0.77, 8.69)
	TD-Girls vs. TD-Boys	-1.38	1.92	-0.72	0.470	(-5.16, 2.39)
	ADHD-Girls vs. ADHD Boys	1.74	1.65	1.06	0.290	(-1.51, 4.99)

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Statistically significant effects ( $p < .01$ ) appear in bold. SE: standard error; CI: Confidence interval.

Supplementary Table 2. Developmental trajectory results of the linear mixed models of motor function.

PANESS						
outcome	Predictor	Coefficient	SE	t-value	p-value	95% CI
Total timed overflow	<b>TD Boy</b>	<b>-0.45</b>	<b>0.19</b>	<b>-2.44</b>	<b>0.010</b>	<b>(-0.82, -0.09)</b>
	<b>ADHD Boy</b>	<b>-1.34</b>	<b>0.16</b>	<b>-8.27</b>	<b>&lt;0.001</b>	<b>(-1.66, -1.03)</b>
	<b>TD Girl</b>	<b>-0.78</b>	<b>0.23</b>	<b>-3.38</b>	<b>&lt;0.001</b>	<b>(-1.23, -0.33)</b>
	<b>ADHD Girl</b>	<b>-0.93</b>	<b>0.18</b>	<b>-5.1</b>	<b>&lt;0.001</b>	<b>(-1.29, -0.57)</b>
	<b>TD-Boys vs. ADHD-Boys</b>	<b>-0.89</b>	<b>0.25</b>	<b>-3.61</b>	<b>&lt;0.001</b>	<b>(-1.37, -0.41)</b>
	TD-Girls vs. ADHD-Girls	-0.15	0.29	-0.51	0.610	(-0.73, 0.42)
	TD-Girls vs. TD-Boys	-0.33	0.3	-1.1	0.270	(-0.9, 0.25)
	ADHD-Girls vs. ADHD Boys	0.41	0.24	1.7	0.090	(-0.06, 0.89)
Total dysrhythmia	<b>TD Boy</b>	<b>-0.45</b>	<b>0.1</b>	<b>-4.52</b>	<b>&lt;0.001</b>	<b>(-0.64, -0.25)</b>
	<b>ADHD Boy</b>	<b>-0.59</b>	<b>0.09</b>	<b>-6.78</b>	<b>&lt;0.001</b>	<b>(-0.76, -0.42)</b>
	<b>TD Girl</b>	<b>-0.4</b>	<b>0.12</b>	<b>-3.24</b>	<b>&lt;0.001</b>	<b>(-0.64, -0.16)</b>
	<b>ADHD Girl</b>	<b>-0.41</b>	<b>0.1</b>	<b>-4.16</b>	<b>&lt;0.001</b>	<b>(-0.6, -0.22)</b>
	TD-Boys vs. ADHD-Boys	-0.14	0.13	-1.06	0.290	(-0.4, 0.12)
	TD-Girls vs. ADHD-Girls	-0.01	0.16	-0.05	0.960	(-0.32, 0.3)
	TD-Girls vs. TD-Boys	0.05	0.16	0.29	0.770	(-0.26, 0.36)
	ADHD-Girls vs. ADHD Boys	0.18	0.13	1.35	0.180	(-0.08, 0.43)
Total time Repetitive tasks	<b>TD Boy</b>	<b>-1.4</b>	<b>0.19</b>	<b>-7.17</b>	<b>&lt;0.001</b>	<b>(-1.78, -1.02)</b>
	<b>ADHD Boy</b>	<b>-1.22</b>	<b>0.17</b>	<b>-7.17</b>	<b>&lt;0.001</b>	<b>(-1.56, -0.89)</b>
	<b>TD Girl</b>	<b>-1.47</b>	<b>0.24</b>	<b>-6.01</b>	<b>&lt;0.001</b>	<b>(-1.95, -0.99)</b>

	<b>ADHD Girl</b>	<b>-1.4</b>	<b>0.2</b>	<b>-7.18</b>	<b>&lt;0.001</b>	<b>(-1.78, -1.02)</b>
	TD-Boys vs. ADHD-Boys	0.17	0.26	0.67	0.500	(-0.34, 0.68)
	TD-Girls vs. ADHD-Girls	0.07	0.31	0.22	0.820	(-0.54, 0.68)
	TD-Girls vs. TD-Boys	-0.07	0.31	-0.23	0.820	(-0.69, 0.54)
	ADHD-Girls vs. ADHD Boys	-0.18	0.26	-0.68	0.500	(-0.68, 0.33)
Total time	<b>TD Boy</b>	<b>-2.35</b>	<b>0.3</b>	<b>-7.71</b>	<b>&lt;0.001</b>	<b>(-2.95, -1.75)</b>
Sequential	<b>ADHD Boy</b>	<b>-2.39</b>	<b>0.26</b>	<b>-9.06</b>	<b>&lt;0.001</b>	<b>(-2.91, -1.87)</b>
tasks	<b>TD Girl</b>	<b>-1.95</b>	<b>0.38</b>	<b>-5.18</b>	<b>&lt;0.001</b>	<b>(-2.69, -1.22)</b>
	<b>ADHD Girl</b>	<b>-2.21</b>	<b>0.3</b>	<b>-7.41</b>	<b>&lt;0.001</b>	<b>(-2.8, -1.63)</b>
	TD-Boys vs. ADHD-Boys	-0.04	0.4	-0.11	0.920	(-0.83, 0.75)
	TD-Girls vs. ADHD-Girls	-0.26	0.48	-0.53	0.590	(-1.2, 0.69)
	TD-Girls vs. TD-Boys	0.39	0.49	0.81	0.420	(-0.56, 1.35)
	ADHD-Girls vs. ADHD Boys	0.18	0.4	0.45	0.650	(-0.6, 0.96)

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Statistically significant effects ( $p < .01$ ) appear in bold. SE: standard error; CI: Confidence interval.

Supplementary Table 3. Diagnosis and sex effect results of the linear mixed-effects models examining motor function (regardless of age).

Statistically significant effects ( $p < .01$ ) appear in bold. SE: standard error.

Note, diagnosis (0 - TD, 1 - ADHD) and sex (0 - boys, 1 - girls) were binary dummy-coded variables. For the age variable, the minimum age (8.02 years) was subtracted across all participants.

PANESS outcome	Predictor	Coefficient	SE	<i>t</i> -value	<i>p</i> -value
Total timed overflow	<b>Diagnosis</b>	<b>5.2</b>	<b>0.85</b>	<b>6.1</b>	<b>&lt;0.001</b>
	Sex	0.42	1.07	0.4	0.693
	Diagnosis*Sex	-2.16	1.41	-1.54	0.125
Total dysrhythmia	<b>Diagnosis</b>	<b>1.21</b>	<b>0.42</b>	<b>2.89</b>	<b>0.004</b>
	Sex	-0.52	0.52	-0.99	0.324
	Diagnosis*Sex	0.68	0.69	0.99	0.325
Total time	Diagnosis	1.99	0.9	2.21	0.028
Repetitive tasks	Sex	0.96	1.13	0.85	0.396
	Diagnosis*Sex	1.58	1.49	1.06	0.290
Total time	Diagnosis	1.61	1.53	1.05	0.295
Sequential tasks	Sex	-1.38	1.92	-0.72	0.472
	Diagnosis*Sex	3.12	2.53	1.24	0.218

Supplementary Table 4. Diagnosis and sex effect results of the linear mixed-effects models

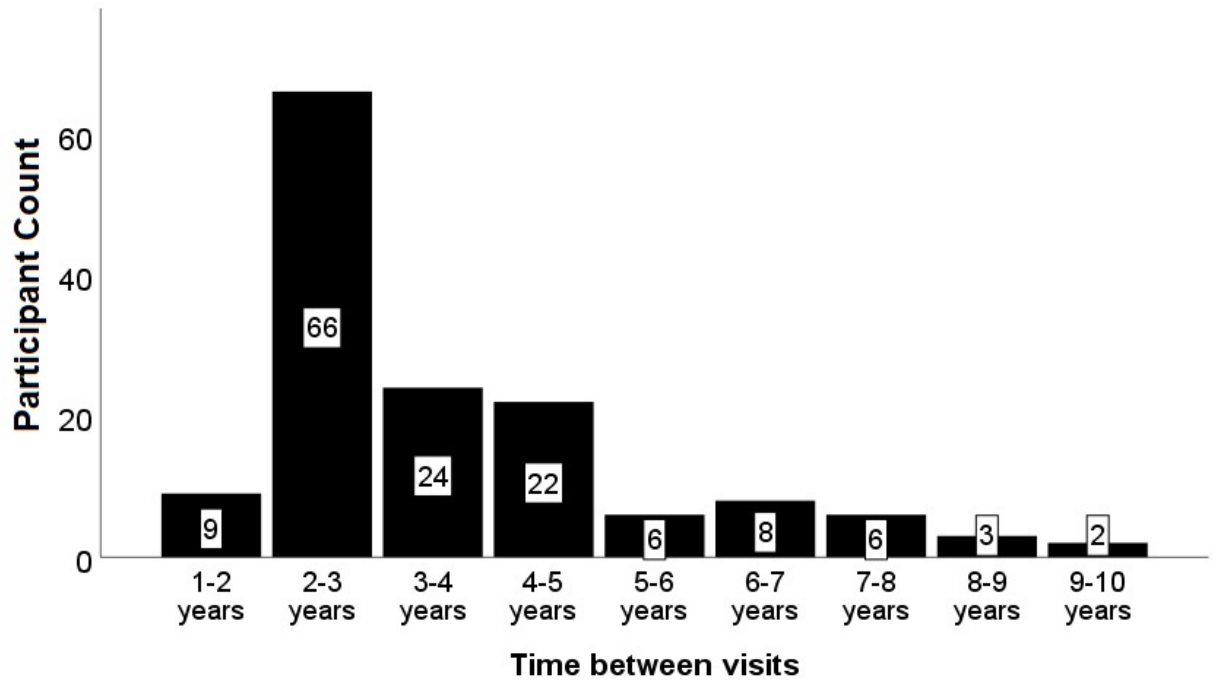
examining the developmental trajectory of motor function. Statistically significant effects ( $p < .01$ ) appear in bold. SE: standard error.

Note, diagnosis (0 - TD, 1 - ADHD) and sex (0 - boys, 1 - girls) were binary dummy-coded variables. For the age variable, the minimum age (8.02 years) was subtracted across all participants.

PANESS outcome	Predictor	Coefficient	SE	DF	<i>t</i> -value	<i>p</i> -value
Total timed	<b>Diagnosis</b>	8.82	1.46	114	6.04	<b>&lt;0.001</b>
overflow	Sex	1.63	1.75	114	0.93	0.353
	Age	-0.45	0.19	141	-2.44	0.016
	Diagnosis*Sex	-5.36	2.24	114	-2.39	0.018
	<b>Diagnosis*Age</b>	-0.89	0.25	141	-3.61	<b>&lt;0.001</b>
	Sex*Age	-0.33	0.3	141	-1.1	0.272
	Diagnosis*Sex*Age	0.74	0.38	141	1.93	0.055
Total dysrhythmia	Diagnosis	1.54	0.74	114	2.07	0.04
	Sex	-1.02	0.89	114	-1.15	0.253
	<b>Age</b>	-0.45	0.1	142	-4.52	<b>&lt;0.001</b>
	Diagnosis*Sex	0.29	1.14	114	0.26	0.798
	Diagnosis*Age	-0.14	0.13	142	-1.06	0.292
	Sex*Age	0.05	0.16	142	0.29	0.770
	Diagnosis*Sex*Age	0.13	0.21	142	0.63	0.526
Total time	Diagnosis	0.43	1.44	114	0.3	0.764
Repetitive tasks	Sex	0.32	1.72	114	0.18	0.855

	<b>Age</b>	-1.4	0.19	142	-7.17	<b>&lt;0.001</b>
	Diagnosis*Sex	2.61	2.2	114	1.18	0.239
	Diagnosis*Age	0.17	0.26	142	0.67	0.506
	Sex*Age	-0.07	0.31	142	-0.23	0.817
	Diagnosis*Sex*Age	-0.1	0.41	142	-0.25	0.801
Total time	Diagnosis	0.34	2.41	114	0.14	0.889
Sequential tasks	Sex	-4.77	2.88	114	-1.66	0.101
	<b>Age</b>	-2.35	0.3	142	-7.71	<b>&lt;0.001</b>
	Diagnosis*Sex	5.07	3.69	114	1.37	0.173
	Diagnosis*Age	-0.04	0.4	142	-0.11	0.916
	Sex*Age	0.39	0.49	142	0.81	0.417
	Diagnosis*Sex*Age	-0.21	0.63	142	-0.34	0.734

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**Figure legends**

Supplementary Figure: Bar graph of time between study visits for all study participants.