

## Supplementary Material

Table S1

Means, adjusted means, standard deviations, and standard errors for depressive symptoms on the CDI-2 subscales for each diagnostic group (ASD vs. NT) and sex (male vs. female) in the total sample

CDI-2 <sup>c</sup> Subscales (T-scores)	Diagnostic Groups (Total Sample N=212)				F	p	$\eta^2_p$
	ASD <sup>a</sup>		NT <sup>b</sup>				
	Male <i>M<sub>adj</sub></i> (SE)	Female <i>M<sub>adj</sub></i> (SE)	Male <i>M<sub>adj</sub></i> (SE)	Female <i>M<sub>adj</sub></i> (SE)			
<i>Negative Mood/Physical Symptoms</i>	56.78 (1.1)	56.14 (1.9)	50.64 (1.5)	53.63 (1.7)			
Interaction					1.303	0.255	0.006
Sex					0.544	0.462	0.003
Diagnosis					6.237	0.013	0.029
<i>Negative-Self Esteem</i>	53.24 (1.0)	56.62 (1.8)	49.49 (1.4)	50.24 (1.6)			
Interaction					0.783	0.377	0.004
Sex					1.917	0.168	0.009
Diagnosis					9.762	0.002	0.045
<i>Ineffectiveness</i>	57.00 (1.2)	60.46 (2.1)	49.52 (1.6)	54.91 (1.9)			
Interaction					0.312	0.577	0.002
Sex					6.476	0.012	0.030
Diagnosis					11.969	0.001	0.055
<i>Interpersonal Problems</i>	57.50 (1.3)	57.23 (2.4)	44.86 (1.9)	50.58 (2.2)			
Interaction					2.277	0.133	0.011
Sex					1.870	0.173	0.009
Diagnosis					20.01	< .001	0.089

<sup>a</sup>Autism Spectrum Disorder; <sup>b</sup>Neurotypical; <sup>c</sup>Children's Depression Inventory, Second Edition

**Table S2***Item-level analyses of CDI-2 between males and females in the NT group*

		<b>Nonsignificant Differences (28/28 items)</b>					
<b>CDI-2 Subscale</b>	<b>CDI-2 Items</b>	<b>Males<sup>a</sup> (n = 51)</b>	<b>Females<sup>a</sup> (n = 36)</b>	<b>U</b>	<b>p</b>	<b>P<sub>adj</sub><sup>a</sup></b>	<b>PS<sup>b</sup> (0-1)</b>
Negative Mood/Physical Symptoms	Item 1 (low mood)	46/5/0	32/4/0	906.0	0.845	0.909	0.51
	Item 9 (crying)	46/5/0	28/7/1	801.5	0.104	0.485	0.57
	Item 10 (irritability)	32/18/1	21/12/3	856.5	0.536	0.834	0.53
	Item 15 (sleep quality)	40/8/3	23/9/4	782.0	0.134	0.469	0.57
	Item 16 (low energy)	32/18/1	19/14/3	806.5	0.267	0.623	0.57
	Item 17 (appetite)	43/3/5	31/5/0	889.0	0.687	0.874	0.52
	Item 18 (somatic)	33/17/1	26/8/2	862.0	0.554	0.816	0.54
	Item 26 (low energy)	50/1/0	33/2/1	859.0	0.161	0.501	0.54
	Item 27 (appetite)	42/6/3	29/4/3	898.5	0.803	0.899	0.52
Negative Self-Esteem	Item 2 (hopelessness)	35/16/0	27/9/0	859.5	0.520	0.856	0.53
	Item 6 (self-concept)	49/2/0	30/5/1	800.0	0.042	0.588	0.56
	Item 7 (guilt)	40/11/0	30/6/0	873.0	0.572	0.801	0.53
	Item 8 (suicidality)	46/5/0	34/1/1	881.5	0.505	0.884	0.53
	Item 13 (appearance)	40/11/0	23/12/1	779.0	0.123	0.492	0.58
	Item 24 (being loved)	49/2/0	36/0/0	882.0	0.232	0.591	0.52
Ineffectiveness	Item 3 (daily activity)	44/7/0	31/5/0	916.5	0.983	0.983	0.51
	Item 4 (anhedonia)	39/12/0	25/11/0	853.5	0.467	0.872	0.54
	Item 12 (concentration)	24/25/2	11/21/4	737.5	0.079	0.553	0.60
	Item 14 (volition)	31/12/8	19/14/3	882.5	0.729	0.887	0.52
	Item 20 (anhedonia)	34/17/0	21/12/3	816.0	0.297	0.639	0.56
	Item 22 (school performance)	40/11/0	30/6/0	873.0	0.572	0.763	0.53
	Item 23 (worthlessness)	38/12/1	27/8/1	915.5	0.977	1.000	0.51
	Item 28 (memory)	27/23/1	17/15/4	827.0	0.377	0.754	0.55

Interpersonal Problems	Item 5 (low mood)	50/1/0	32/4/0	834.0	0.073	0.681	0.55
	Item 11 (peer satisfaction)	44/7/0	24/11/1	734.5	0.027	0.756	0.61
	Item 19 (loneliness)	46/5/0	29/6/1	827.0	0.190	0.531	0.55
	Item 21 (peer network)	45/6/0	31/5/0	898.5	0.770	0.898	0.52
	Item 25 (peer conflict)	49/2/0	31/4/1	825.5	0.091	0.509	0.56

<sup>a</sup>Number of participants in the group reporting responses of 0/1/2 on each item; <sup>b</sup> $P_{adj}$ : Benjamini-Hochberg FDR

correction; <sup>c</sup>PS: Probability of superiority

Note: We report frequencies, rather than medians, as we believe this additional information demonstrates the proportion of individuals endorsing symptoms of a certain severity level or higher.

**Table S3***Item-level analyses of CDI-2 between males and females in the ASD group*

		<b>Nonsignificant Differences (28/28 items)</b>					
<b>CDI-2 Subscale</b>	<b>CDI-2 Items</b>	<b>Males<sup>a</sup> (n = 93)</b>	<b>Females<sup>a</sup> (n = 32)</b>	<b>U</b>	<b>p</b>	<b>P<sub>adj</sub><sup>a</sup></b>	<b>PS<sup>b</sup> (0-1)</b>
Negative Mood/Physical Symptoms	Item 1 (low mood)	77/14/2	25/5/2	1367.0	0.445	1.000	0.54
	Item 9 (crying)	77/13/3	28/2/2	1407.0	0.654	0.915	0.52
	Item 10 (irritability)	51/35/7	19/10/3	1434.5	0.884	0.952	0.51
	Item 15 (sleep quality)	48/30/15	15/11/6	1348.0	0.495	0.924	0.54
	Item 16 (low energy)	57/22/14	22/8/2	1286.0	0.455	1.000	0.56
	Item 17 (appetite)	64/14/15	26/2/4	1300.5	0.299	1.000	0.56
	Item 18 (somatic)	55/26/12	22/10/0	1278.0	0.235	1.000	0.57
	Item 26 (low energy)	68/16/9	25/4/3	1399.5	0.749	0.911	0.52
	Item 27 (appetite)	74/7/12	24/6/2	1348.0	0.615	0.906	0.54
	Negative Self-Esteem	Item 2 (hopelessness)	52/37/4	17/14/1	1397.0	0.695	0.884
Item 6 (self-concept)		82/11/0	25/5/2	1287.5	0.111	1.000	0.56
Item 7 (guilt)		64/22/7	20/10/2	1355.0	0.481	0.962	0.54
Item 8 (suicidality)		72/21/0	27/5/0	1366.5	0.462	1.000	0.54
Item 13 (appearance)		72/20/1	25/6/1	1446.5	0.934	0.968	0.50
Item 24 (being loved)		75/16/2	28/1/3	1389.0	0.557	0.917	0.53
Ineffectiveness	Item 3 (daily activity)	70/22/1	25/4/3	1453.5	0.979	0.979	0.51
	Item 4 (anhedonia)	53/39/1	21/11/0	1348.5	0.467	1.000	0.54
	Item 12 (concentration)	29/46/18	12/18/2	1288.0	0.329	1.000	0.56
	Item 14 (volition)	42/21/30	18/9/5	1219.5	0.166	1.000	0.59
	Item 20 (anhedonia)	45/30/18	17/12/3	1355.0	0.523	0.915	0.54
	Item 22 (school performance)	68/18/7	22/7/3	1361.5	0.558	0.868	0.54
	Item 23 (worthlessness)	51/27/15	13/10/9	1168.5	0.071	1.000	0.60
	Item 28 (memory)	38/41/14	11/16/5	1327.0	0.471	1.000	0.55
Interpersonal	Item 5	71/20/2	25/7/0	1438.0	0.882	1.000	0.51

Problems	(low mood)						
	Item 11 (peer satisfaction)	73/17/3	25/6/1	1438.5	0.882	0.987	0.51
	Item 19 (loneliness)	54/30/9	18/10/4	1388.5	0.656	0.874	0.53
	Item 21 (peer network)	53/32/8	21/11/0	1310.0	0.380	1.000	0.56
	Item 25 (peer conflict)	67/21/5	27/4/1	1271.5	0.194	1.000	0.57

<sup>a</sup>Number of participants in the group reporting responses of 0/1/2 on each item; <sup>b</sup> $P_{adj}$ : Benjamini-Hochberg FDR

correction; <sup>c</sup>PS: Probability of superiority

Note: We report frequencies, rather than medians, as we believe this additional information demonstrates the proportion of individuals endorsing symptoms of a certain severity level or higher.

**Table S4***Item-level analyses of CDI-2 as rated by females between diagnostic groups (ASD vs. NT)*

		<b>Significant Differences (2/28 items)</b>					
<b>CDI-2 Subscale</b>	<b>CDI-2 Items</b>	<b>NT<sup>a</sup> (n = 36)</b>	<b>ASD<sup>a</sup> (n = 32)</b>	<b>U</b>	<b>p</b>	<b>P<sub>adj</sub><sup>b</sup></b>	<b>PS<sup>c</sup> (0-1)</b>
Interpersonal Problems	Item 19 (loneliness)	29/6/1	17/11/4	407.5	0.020	0.041	0.65
	Item 23 (worthlessness)	27/8/1	12/11/9	324.5	0.001	0.028	0.72
		<b>Nonsignificant Differences (26/28 items)</b>					
Negative Mood/Physical Symptoms	Item 1 (low mood)	32/4/0	25/5/2	490.0	0.184	0.468	0.58
	Item 9 (crying)	28/7/1	28/2/2	512.0	0.386	0.600	0.56
	Item 10 (irritability)	21/12/3	19/10/3	553.5	0.948	0.948	0.52
	Item 15 (sleep quality)	23/9/4	15/11/6	448.5	0.124	0.386	0.62
	Item 16 (low energy)	19/14/3	22/8/2	467.0	0.280	0.522	0.60
	Item 17 (appetite)	31/5/0	26/2/4	517.5	0.429	0.632	0.56
	Item 18 (somatic)	26/8/2	22/10/0	543.0	0.813	0.875	0.53
	Item 26 (low energy)	33/2/1	25/4/3	477.5	0.102	0.408	0.59
	Item 27 (appetite)	29/4/3	23/6/2	506.0	0.549	0.668	0.57
Negative Self-Esteem	Item 2 (hopelessness)	27/9/0	17/14/1	423.0	0.042	0.196	0.64
	Item 6 (self-concept)	30/5/1	25/5/2	522.5	0.516	0.722	0.55
	Item 7 (guilt)	30/6/0	20/10/2	429.0	0.036	0.252	0.63
	Item 8 (suicidality)	34/1/1	27/5/0	501.5	0.180	0.504	0.57
	Item 13 (appearance)	23/12/1	25/6/1	485.5	0.253	0.506	0.58
	Item 24 (being loved)	36/3/0	26/2/4	486.0	0.027	0.054	0.58
Ineffectiveness	Item 3 (daily activity)	31/5/0	25/4/3	502.0	0.291	0.509	0.57
	Item 4 (anhedonia)	25/11/0	21/11/0	494.0	0.210	0.490	0.58
	Item 12 (concentration)	11/21/4	12/18/2	515.5	0.542	0.689	0.56
	Item 14 (volition)	19/14/3	18/9/5	548.0	0.888	0.920	0.52
	Item 20 (anhedonia)	21/12/3	17/12/3	520.5	0.595	0.694	0.55
	Item 22	30/6/0	22/7/3	462.0	0.104	0.364	0.60

	(school performance)						
	Item 28 (memory)	17/15/4	11/16/5	469.0	0.220	0.473	0.60
Interpersonal Problems	Item 5 (low mood)	32/4/0	25/7/0	522.5	0.516	0.688	0.55
	Item 11 (peer satisfaction)	24/11/1	25/6/1	500.5	0.357	0.588	0.57
	Item 21 (peer network)	31/5/0	21/11/0	437.5	0.040	0.223	0.63
	Item 25 (peer conflict)	31/4/1	27/4/1	545.5	0.799	0.894	0.53

<sup>a</sup>Number of participants in the group reporting responses of 0/1/2 on each item; <sup>b</sup>P<sub>adj</sub>: Benjamini-Hochberg FDR

correction; <sup>c</sup>PS: Probability of superiority

Note: We report frequencies, rather than medians, as we believe this additional information demonstrates the proportion of individuals endorsing symptoms of a certain severity level or higher.

**Table S5***Item-level analyses of CDI-2 as rated by males between diagnostic groups (ASD vs. NT)*

<b>Significant Differences (10/28 items)</b>							
<b>CDI-2 Subscale</b>	<b>CDI-2 Items</b>	<b>NT<sup>a</sup> (n = 51)</b>	<b>ASD<sup>a</sup> (n = 93)</b>	<b><i>U</i></b>	<b><i>p</i></b>	<b><i>P<sub>adj</sub><sup>b</sup></i></b>	<b><i>PS<sup>c</sup></i> (0-1)</b>
Negative Mood/Physical Symptoms	Item 15 (sleep quality)	40/8/3	48/30/15	1751.5	0.002	0.009	0.63
	Item 26 (low energy)	50/1/0	69/15/9	1801.5	<0.001	<0.001	0.62
Negative Self-Esteem	Item 24 (being loved)	49/2/0	75/16/2	2030.0	0.011	0.034	0.57
Ineffectiveness	Item 12 (concentration)	24/25/2	30/46/17	1854.0	0.017	0.047	0.61
	Item 20 (anhedonia)	34/17/0	45/30/18	1819.0	0.007	0.028	0.62
	Item 23 (worthlessness)	38/12/1	51/27/15	1860.5	0.010	0.035	0.61
	Item 5 (low mood)	50/1/0	71/20/2	1882.0	0.001	0.006	0.61
Interpersonal Problems	Item 19 (loneliness)	46/5/0	54/30/9	1615.0	<0.001	<0.001	0.66
	Item 21 (peer network)	45/6/0	54/32/7	1635.0	<0.001	<0.001	0.66
	Item 25 (peer conflict)	49/2/0	67/21/5	1796.5	<0.001	<0.001	0.63
<b>Nonsignificant Differences (18/28 items)</b>							
Negative Mood/Physical Symptoms	Item 1 (low mood)	46/5/0	77/14/2	2219.0	0.227	0.303	0.53
	Item 9 (crying)	46/5/0	77/13/3	2216.5	0.221	0.309	0.54
	Item 10 (irritability)	32/18/1	51/35/7	2173.5	0.287	0.349	0.55
	Item 16 (low energy)	32/18/1	57/22/14	2222.0	0.468	0.504	0.54
	Item 17 (appetite)	43/3/5	65/14/14	2043.5	0.071	0.133	0.57
	Item 18 (somatic)	33/17/1	55/26/12	2185.0	0.308	0.359	0.54
	Item 27 (appetite)	42/6/3	74/7/12	2310.0	0.600	0.622	0.52
	Negative Self-Esteem	Item 2 (hopelessness)	35/16/0	52/37/4	2071.5	0.114	0.199
Item 6 (self-concept)		49/2/0	82/11/0	2210.5	0.119	0.195	0.54
Item 7 (guilt)		40/11/0	64/22/7	2136.0	0.166	0.245	0.55
Item 8 (suicidality)		46/5/0	72/21/0	2096.5	0.061	0.122	0.56



	Item 13 (appearance)	40/11/0	72/20/1	2373.0	0.890	0.890	0.50
	Item 3 (daily activity)	44/7/0	70/22/1	2136.0	0.124	0.193	0.55
	Item 4 (anhedonia)	39/12/0	53/39/1	1935.0	0.022	0.055	0.59
Ineffectiveness	Item 14 (volition)	31/12/8	42/21/30	1905.0	0.033	0.077	0.60
	Item 22 (school performance)	40/11/0	68/18/7	2207.0	0.363	0.406	0.54
	Item 28 (memory)	27/23/1	38/41/14	1944.5	0.049	0.105	0.59
Interpersonal Problems	Item 11 (peer satisfaction)	44/7/0	73/17/3	2205.5	0.241	0.307	0.54

<sup>a</sup>Number of participants in the group reporting responses of 0/1/2 on each item; <sup>b</sup> $P_{adj}$ : Benjamini-Hochberg FDR

correction; <sup>c</sup>PS: Probability of superiority

Note: We report frequencies, rather than medians, as we believe this additional information demonstrates the proportion of individuals endorsing symptoms of a certain severity level or higher.