

Supplementary Materials

Table S1. Results of the one-way ANOVA for testing the effect of the at birth assigned sex on the main problem scale scores of the YSR-R.

Scale	Male norm		Female norm	
	Statistics	Sig., Effect size ⁴	Statistics	Sig., Effect size
Int ¹	$F(1, 48) = 1.03$	$p = .32, d = .36$	$F(1, 48) = 1.51$	$p = .23, d = .43$
Ext ²	$F(1, 48) = .37$	$p = .54, d = .21$	$F(1, 48) = .59$	$p = .45, d = .27$
Tot ³	$F(1, 48) = .68$	$p = .41, d = .29$	$F(1, 48) = .143$	$p = .24, d = .42$

¹Internalizing Problems; ²Externalizing Problems; ³Total Problems; ⁴Significance and effect size.

Table S2. Results of the t-test for dependent samples between means according to gender norms of the main and problem scales of the YSR-R for trans boys.

trans boys ($n = 38$)						
Scale	Male norm		Female norm		BCa 95%	
	$M_GID (SD)^{12}$	$M_ABAS (SD)^{13}$	Statistics ¹⁴	Sig., Effect ¹⁵	CI + ¹⁶	CI - ¹⁶
YSR_Int ¹	66.21 (12.31)	62.45 (11.30)	$t(37) = -6.42$	$p < .01, d = 1.04$	2.20	4.63
YSR_Ext ²	53.76 (8.14)	55.34 (9.23)	$t(37) = -3.89$	$p = .135, d = -.63$	-2.57	-.97
YSR_Ges ³	62.24 (10.62)	62.39 (10.36)	$t(37) = -.18$	$p = .818, d = -.03$	-2.38	1.25
YSR_AD ⁴	66.39 (9.79)	64.18 (9.30)	$t(37) = 2.82$	$p = 1.83, d = -.46$	.31	3.40
YSR_WD ⁵	63.63 (9.55)	62.42 (9.64)	$t(37) = 3.68$	$p = .057, d = -.60$	.351	1.72
YSR_SC ⁶	61.58 (10.06)	58.45 (8.96)	$t(37) = 10.45$	$p < .01, d = 1.70$	2.59	3.59
YSR_SP ⁷	59.34 (8.35)	60.08 (8.77)	$t(37) = -1.57$	$p = .327, d = -.25$	-2.04	.00
YSR_TP ⁸	67.18 (11.45)	65.63 (10.51)	$t(37) = 4.25$	$p < .01, d = -.69$	.71	2.17
YSR_AP ⁹	61.24 (11.72)	61.76 (11.53)	$t(37) = -1.16$	$p = .385, d = -.19$	-1.64	.166
YSR_RB ¹⁰	55.95 (5.97)	57.68 (7.14)	$t(37) = -5.33$	$p < .01, d = -.86$	-2.57	-1.15
YSR_AB ¹¹	55.29 (5.75)	56.18 (6.38)	$t(37) = -2.13$	$p = .37, d = -.35$	-1.97	-.32

¹Internalizing problems; ²Externalizing Problems; ³Total Problems; ⁴Anxious/Depressed; ⁵Withdrawn/Depressed; ⁶Somatic Complaints; ⁷Social Problems; ⁸Thought Problems; ⁹Attention Problems ¹⁰Rule-Breaking Behavior; ¹¹Aggressive Behavior; ¹²Mean according to gender identity norm; ¹³Mean according to at birth assigned sex norm ¹⁴Statistics of t-test for dependent samples; ¹⁵Significance and effects; ¹⁶95% bias-corrected and accelerated confidence interval.

Table S3. Results of the t-test for dependent samples between means according to gender norms of the main and problem scales of the CBCL-R for trans boys.

trans boys (<i>n</i> = 38)						
	Male norm	Female norm	BCa 95%			
Variable	<i>M</i> _GID (<i>SD</i>) ¹²	<i>M</i> _ABAS (<i>SD</i>) ¹³	Statistics ¹⁴	Sig., Effect ¹⁵	CI + ¹⁶	CI - ¹⁶
CBCL_Int ¹	66.55 (11.81)	64.08 (11.61)	<i>t</i> (37) = -5.54	<i>p</i> < .01, <i>d</i> = 1.04	-3.32	-1.62
CBCL_Ext ²	54.40 (10.02)	53.87 (11.39)	<i>t</i> (37) = -.49	<i>p</i> = .627, <i>d</i> = -.63	-2.76	1.31
CBCL_Ges ³	61.08 (10.43)	61.79 (10.70)	<i>t</i> (37) = 1.27	<i>p</i> = .250, <i>d</i> = -.03	-.40	1.68
CBCL_AD ⁴	64.23 (10.65)	64.12 (10.84)	<i>t</i> (37) = -.15	<i>p</i> = .867, <i>d</i> = -.46	-1.32	1.30
CBCL_WD ⁵	63.36 (8.60)	64.35 (8.47)	<i>t</i> (37) = 1.95	<i>p</i> = .146, <i>d</i> = -.60	.27	1.82
CBCL_SC ⁶	62.52 (10.42)	61.24 (10.26)	<i>t</i> (37) = -1.97	<i>p</i> = .172, <i>d</i> = 1.70	-2.27	-.04
CBCL_SP ⁷	58.26 (6.91)	59.24 (7.90)	<i>t</i> (37) = 2.28	<i>p</i> < .05, <i>d</i> = -.25	.113	1.82
CBCL_TP ⁸	62.14 (8.43)	62.24 (8.48)	<i>t</i> (37) = .25	<i>p</i> = .830, <i>d</i> = -.69	-.82	.81
CBCL_AP ⁹	58.28 (8.37)	59.86 (8.65)	<i>t</i> (37) = 3.29	<i>p</i> < .01, <i>d</i> = -.19	.64	2.35
CBCL_RB ¹⁰	56.20 (6.42)	58.12 (7.60)	<i>t</i> (37) = 5.45	<i>p</i> < .01, <i>d</i> = -.86	1.25	2.56
CBCL_AB ¹¹	55.15 (6.85)	56.26 (8.72)	<i>t</i> (37) = 1.74	<i>p</i> = .084, <i>d</i> = -.35	-.15	2.19

¹Internalizing Problems; ²Externalizing Problems; ³Total Problems; ⁴Anxious/Depressed; ⁵Withdrawn/Depressed; ⁶Somatic Complaints; ⁷Social Problems; ⁸Thought Problems; ⁹Attention Problems ¹⁰Rule-Breaking Behavior; ¹¹Aggressive Behavior; ¹²Mean according to gender identity norm; ¹³Mean according to at birth assigned sex norm ¹⁴Statistics of t-test for dependent samples; ¹⁵Significance and effects; ¹⁶95% bias-corrected and accelerated confidence interval.

Table S4. Results of the t-test for dependent samples between means according to gender norms of the main and problem scales of the YSR-R for trans girls.

trans girls (<i>n</i> = 11)						
	Female norm	Male norm	BCa 95%			
Scale	<i>M</i> _GID (<i>SD</i>) ¹²	<i>M</i> _ABAS (<i>SD</i>) ¹³	Statistics ¹⁴	Sig., Effect ¹⁵	CI + ¹⁶	CI - ¹⁶
YSR_Int ¹	58.27 (9.78)	62.55 (10.85)	<i>t</i> (10) = 12.84	<i>p</i> < .01, <i>d</i> = 1.04	3.60	4.90
YSR_Ext ²	52.91 (5.77)	52.00 (5.39)	<i>t</i> (10) = -4.30	<i>p</i> < .01, <i>d</i> = -.63	-1.30	-.42
YSR_Ges ³	58.55 (8.29)	59.64 (8.08)	<i>t</i> (10) = 4.35	<i>p</i> < .01, <i>d</i> = 1.31	.57	1.56
YSR_AD ⁴	58.91 (9.24)	60.91 (10.62)	<i>t</i> (10) = 3.96	<i>p</i> < .05, <i>d</i> = -.46	1.11	2.83

YSR_WD ⁵	62.73 (10.45)	64.18 (10.04)	$t(10) = 5.16$	$p < .01, d = -.60$	.88	2.00
YSR_SC ⁶	56.09 (4.91)	59.55 (6.65)	$t(10) = 5.98$	$p < .05, d = 1.70$	2.31	4.50
YSR_SP ⁷	60.82 (8.40)	60.82 (7.56)	$t(10) = .00$	$p = 1.00, d = -.25$	-1.23	1.59
YSR_TP ⁸	60.64 (8.57)	62.55 (9.22)	$t(10) = 4.87$	$p < .01, d = -.69$	1.14	2.75
YSR_AP ⁹	60.18 (6.79)	59.36 (6.90)	$t(10) = -1.94$	$p = .084, d = -.19$	-1.58	.00
YSR_RB ¹⁰	55.27 (6.60)	54.27 (5.67)	$t(10) = -3.71$	$p < .01, d = -.86$	-1.60	-.50
YSR_AB ¹¹	52.82 (2.72)	52.36 (2.34)	$t(10) = -2.89$	$p < .05, d = -.35$	-.78	-.17

¹Internalizing problems; ²Externalizing problems; ³Total problems; ⁴Anxious/depressed; ⁵Withdrawn/Depressed; ⁶Somatic Complaints; ⁷Social Problems; ⁸Thought Problems; ⁹Attention Problems ¹⁰Rule-Breaking Behavior; ¹¹Aggressive Behavior; ¹²Mean according to gender identity norm; ¹³Mean according to at birth assigned sex norm ¹⁴Statistics of t-test for dependent samples; ¹⁵Significance and effects; ¹⁶95% bias-corrected and accelerated confidence interval.

Table S5. Results of the t-test for dependent samples between means according to gender norms of the main and problem scales of the CBCL-R for trans girls.

trans girls ($n = 11$)						
	Female norm	Male Norm	BCa 95%			
Scale	$M_GID (SD)^{12}$	$M_ABAS (SD)^{13}$	Statistics ¹⁴	Sig., Effect ¹⁵	CI + ¹⁶	CI - ¹⁶
CBCL_Int ¹	64.36 (12.04)	66.91 (13.10)	$t(10) = 12.84$	$p < .01, d = -1.99$	-3.37	-1.76
CBCL_Ext ²	56.45 (6.92)	56.82 (5.81)	$t(10) = -4.30$	$p = .852, d = -.05$	-6.11	2.8
CBCL_Ges ³	64.09 (8.89)	63.09 (8.14)	$t(10) = 4.35$	$p = .080, d = -.03$	.22	1.75
CBCL_AD ⁴	61.82 (10.73)	63.00 (10.75)	$t(10) = 3.96$	$p < .01, d = .67$	-1.56	-.80
CBCL_WD ⁵	70.91 (15.17)	69.64 (14.92)	$t(10) = 5.16$	$p < .01, d = 1.15$	.53	1.91
CBCL_SC ⁶	58.91 (9.64)	60.55 (10.12)	$t(10) = 5.98$	$p < .05, d = -1.00$	-2.83	-.55
CBCL_SP ⁷	60.18 (10.45)	59.27 (8.91)	$t(10) = .00$	$p = .114, d = .54$	-.10	1.91
CBCL_TP ⁸	61.00 (8.96)	60.45 (8.60)	$t(10) = 4.87$	$p = .237, d = .45$	.09	1.40
CBCL_AP ⁹	67.82 (11.14)	65.55 (11.30)	$t(10) = -1.94$	$p < .01, d = 1.91$	1.56	2.93
CBCL_RB ¹⁰	57.18 (6.42)	55.45 (5.22)	$t(10) = -3.71$	$p < .05, d = .91$	.58	2.67
CBCL_AB ¹¹	57.00 (6.29)	55.73 (5.10)	$t(10) = -2.89$	$p < .05, d = .86$	.46	2.14

¹Internalizing Problems; ²Externalizing Problems; ³Total Problems; ⁴Anxious/Depressed; ⁵Withdrawn/Depressed; ⁶Somatic Complaints; ⁷Social Problems; ⁸Thought Problems; ⁹Attention Problems ¹⁰Rule-Breaking Behavior; ¹¹Aggressive Behavior; ¹²Mean according to gender identity norm; ¹³Mean according to at birth assigned

sex norm;¹⁴Statistics of t-test for dependent samples; ¹⁵Significance and effects; ¹⁶95% bias-corrected and accelerated confidence interval of mean differences.

Table S6. Results of the McNemar-Test indicating the change between the clinical significance of the evaluation norms from GID to ABAS from the YSR-R for trans boys.

trans boys (<i>n</i> = 38)						
	Male norm	Female norm	BCa 95%			
Scale	N_cl. sign. (%) ¹²	N_cl. sign. (%) ¹³	Sig. McNemar ¹⁴	OR ¹⁵	CI+ ¹⁶	CI- ¹⁶
YSR_Int ¹	23 (60.5)	18 (47.4)	<i>p</i> = .125	1.7	0.69	4.23
YSR_Ext ²	5 (13.2)	10 (26.3)	<i>p</i> = .063	0.42	0.13	1.39
YSR_Ges ³	18 (47.4)	19 (50.0)	<i>p</i> = 1.000	0.9	0.37	2.21
YSR_AD ⁴	16 (42.1)	11 (28.9)	<i>p</i> = .125	1.79	0.69	4.62
YSR_WD ⁵	10 (26.3)	6 (15.8)	<i>p</i> = .125	1.9	0.61	5.91
YSR_SC ⁶	10 (26.3)	4 (10.5)	<i>p</i> < .05	3.04	0.86	10.73
YSR_SP ⁷	3 (7.9)	4 (10.5)	<i>p</i> = 1.000	0.73	0.15	3.5
YSR_TP ⁸	18 (47.4)	15 (39.5)	<i>p</i> = .250	1.38	0.56	3.43
YSR_AP ⁹	6 (15.8)	6 (15.8)	<i>p</i> = 1.000	1	0.29	3.43
YSR_RB ¹⁰	1 (2.6)	2 (5.3)	<i>p</i> = 1.000	0.49	0.04	5.6
YSR_AB ¹¹	—	—	—	—	—	—

¹Internalizing Problems; ²Externalizing Problems; ³Total Problems; ⁴Anxious/Depressed; ⁵Withdrawn/Depressed; ⁶Somatic Complaints; ⁷Social Problems; ⁸Thought Problems; ⁹Attention Problems ¹⁰Rule-Breaking Behavior; ¹¹Aggressive Behavior; ¹²Number/percentage of clinical significant cases (*T* > 63/69) according gender identity norm; ¹³Number/percentage of clinical significant cases according at birth assigned sex norm; ¹⁴Significance of McNemar-Test; ¹⁵Odds ratio; ¹⁶95% bias-corrected and accelerated confidence interval.

Table S7. Results of the McNemar-Test indicating the change between the clinical significance of the evaluation norms from GID to ABAS from the CBCL-R for trans girls.

trans boys (<i>n</i> = 38)						
	Male norm	Female norm	BCa 95%			
Scale	N_cl.sign. (%) ¹²	N_cl.sign. (%) ¹³	Sig. McNemar ¹⁴	OR ¹⁵	CI+ ¹⁶	CI- ¹⁶
CBCL_Int ¹	20 (52.6)	21 (55.3)	<i>p</i> = 1.000	0.9	0.36	2.22
CBCL_Ext ²	11 (29.0)	10 (26.3)	<i>p</i> = 1.000	1.14	0.42	3.12

CBCL_Ges ³	20 (52.6)	21 (55.3)	$p = 1.000$	0.9	0.36	2.22
CBCL_AD ⁴	14 (36.8)	11 (28.9)	$p = .375$	1.43	0.55	3.75
CBCL_WD ⁵	5 (13.2)	5 (13.2)	$p = 1.000$	1	0.26	3.78
CBCL_SC ⁶	11 (29.0)	7 (18.4)	$p = .219$	1.8	0.61	5.31
CBCL_SP ⁷	2 (5.3)	4 (10.5)	$p = 6.25$	0.47	0.08	2.75
CBCL_TP ⁸	7 (18.4)	10 (26.3)	$p = .375$	0.63	0.21	1.89
CBCL_AP ⁹	4 (10.5)	4 (10.5)	$p = 1.000$	1	0.23	4.33
CBCL_RB ¹⁰	1 (2.6)	4 (10.5)	$p = .250$	0.23	0.02	2.16
CBCL_AB ¹¹	2 (5.3)	5 (13.2)	$p = .375$	0.37	0.37	2.02

¹Internalizing Problems; ²Externalizing Problems; ³Total Problems; ⁴Anxious/Depressed; ⁵Withdrawn/Depressed; ⁶Somatic Complaints; ⁷Social Problems; ⁸Thought Problems; ⁹Attention Problems ¹⁰Rule-Breaking Behavior; ¹¹Aggressive Behavior; ¹²Number/percentage of clinical significant cases ($T > 63/69$) according gender identity norm; ¹³Number/percentage of clinical significant cases according at birth assigned sex norm; ¹⁴Significance of McNemar-Test; ¹⁵Odds ratio; ¹⁶95% bias-corrected and accelerated confidence interval.

Table S8. Results of the McNemar-Test indicating the change between the clinical significance of the evaluation norms from GID to ABAS from the YSR-R for trans girls.

trans girls ($n = 11$)						
Scale	Female norm	Male norm	BCa 95%			
	N_cl. sign. (%) ¹²	N_cl. sign. (%) ¹³	Sig. McNemar ¹⁴	OR ¹⁵	CI ¹⁶	CI ¹⁶
YSR_Int ¹	6 (54.5)	6 (54.5)	$p = 1.000$	1	0.19	5.36
YSR_Ext ²	—	—	—	—	—	—
YSR_Ges ³	5 (45.5)	5 (45.5)	$p = 1.000$	1	0.19	5.36
YSR_AD ⁴	1 (9.1)	2 (18.2)	$p = 1.000$	0.45	0.03	5.84
YSR_WD ⁵	1 (9.1)	2 (18.2)	$p = 1.000$	0.45	0.03	5.84
YSR_SC ⁶	—	—	—	—	—	—
YSR_SP ⁷	1 (9.1)	1 (9.1)	$p = 1.000$	1	0.05	18.3
YSR_TP ⁸	2 (18.2)	3 (27.3)	$p = 1.000$	0.59	0.08	4.5
YSR_AP ⁹	1 (9.1)	1 (9.1)	$p = 1.000$	1	0.05	18.3
YSR_RB ¹⁰	1 (8.1)	—	—	—	—	—

YSR_AB¹¹

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¹Internalizing Problems; ²Externalizing Problems; ³Total Problems; ⁴Anxious/Depressed; ⁵Withdrawn/Depressed; ⁶Somatic Complaints; ⁷Social Problems; ⁸Thought Problems; ⁹Attention Problems ¹⁰Rule-Breaking Behavior; ¹¹Aggressive Behavior; ¹²Number/percentage of clinical significant cases ($T > 63/69$) according gender identity norm; ¹³Number/percentage of clinical significant cases according at birth assigned sex norm; ¹⁴Significance of McNemar-Test; ¹⁵Odds ratio; ¹⁶95% bias-corrected and accelerated confidence interval.

Table S9. Results of the McNemar-Test indicating the change between the clinical significance of the evaluation norms from GID to ABAS from the CBCL-R for trans girls.

trans* Mädchen ($n = 11$)						
	Female norm	Male norm	BCa 95%			
Scale	$N_{cl.auff.} (\%)^{12}$	$N_{cl.sign.} (\%)^{13}$	Sig. McNemar ¹⁴	OR ¹⁵	CI ¹⁶	CI ¹⁶
CBCL_Int ¹	5 (45.5)	6 (54.5)	$p = 1.000$	0.69	0.13	3.72
CBCL_Ext ²	1 (9.1)	2 (18.2)	$p = 1.000$	0.45	0.03	5.84
CBCL_Ges ³	6 (54.5)	6 (54.5)	$p = 1.000$	1	0.19	5.36
CBCL_AD ⁴	3 (27.3)	3 (27.3)	$p = 1.000$	1	0.15	6.53
CBCL_WD ⁵	5 (45.5)	5 (45.5)	$p = 1.000$	0.45	0.08	2.67
CBCL_SC ⁶	3 (27.3)	3 (27.3)	$p = 1.000$	1	0.15	6.53
CBCL_SP ⁷	2 (18.2)	2 (18.2)	$p = 1.000$	1	0.11	8.73
CBCL_TP ⁸	3 (27.3)	2 (18.2)	$p = 1.000$	1.69	0.22	12.81
CBCL_AP ⁹	4 (36.4)	4 (36.4)	$p = 1.000$	1	0.18	5.68
CBCL_RB ¹⁰	—	—	—	—		
CBCL_AB ¹¹	1 (9.1)	—	—	—		

¹Internalizing Problems; ²Externalizing Problems; ³Total problems; ⁴Anxious/Depressed; ⁵Withdrawn/Depressed; ⁶Somatic Complaints; ⁷Social Problems; ⁸Thought Problems; ⁹Attention Problems ¹⁰Rule-Breaking Behavior; ¹¹Aggressive Behavior; ¹²Number/percentage of clinical significant cases ($T > 63/69$) according gender identity norm; ¹³Number/percentage of clinical significant cases according at birth assigned sex norm; ¹⁴Significance of McNemar-Test; ¹⁵Odds ratio; ¹⁶95% bias-corrected and accelerated confidence interval.