Technical Report

Children Wave 3

Tom and Tina – Adapted Social Behaviour Questionnaire

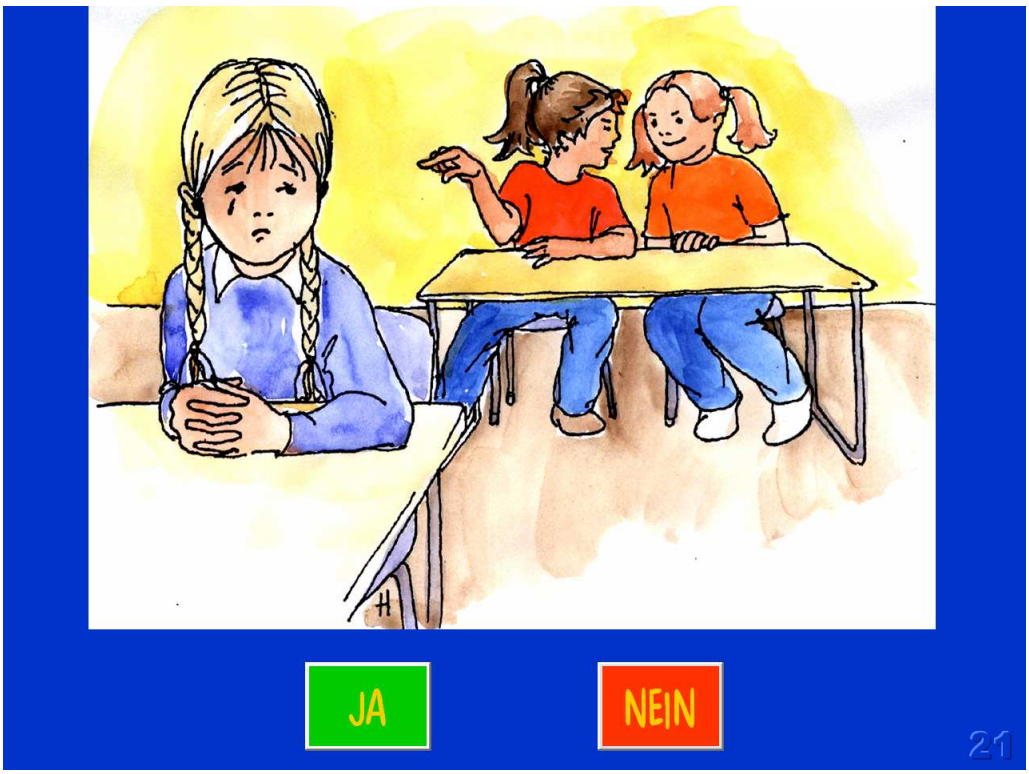
Source/Developer	▪ Richard E. Tremblay (Université de Montréal) ▪ Tremblay, R. E., Loeber, R., Gagnon, C., Charlebois, P., Larivee, S. & LeBlanc, M. (1991). Disruptive boys with stable and unstable high fighting behavior patterns during junior elementary school. Journal of Abnormal Child Psychology, 19, 285-300.
Child-friendly adaptation	▪ z-proso Project Team
Description/Adaptation	"Tom and Tina" is a new instrument designed to measure self-reported problem behaviour amongst primary-school children. It is an adapted computer-based multimedia version of Tremblay's Social Behaviour Questionnaire that fits the needs of an anonymous assessment of pro- and anti-social behaviours among primary school children. Basically, the instrument consists of a series of drawings that display specific behaviours of a child called "Tom" or "Tina" depending on the child's gender. For each drawing the child is asked by a voice recorded on the computer whether he/she happens to do what is shown on the drawing. It is then asked the specific question pertaining to the drawing. There are "Yes" and "No" buttons at the bottom of each screen and the child is instructed how to use them. "Tom & Tina" comprehensively assesses the target child's social behaviour and focuses also on prosociality, not only on problem behaviour. As compared to the original scale the more recent version used in the z-proso study further allows assessing subtypes of aggression, such as indirect, reactive, and instrumental aggression. The Social Behaviour Questionnaire is also repeatedly administered to teachers (paper-and-pencil) and to the target child's primary caregiver (CAPI).
Measured Concepts/ Subdimensions	*Prosocial Behaviour* 1. Prosocial Behaviour (Helping, Empathy) *Internalising Problem Behaviour* 2. Anxiety 3. Depression *Attention-Deficit and Hyperactivity Disorder (ADHD)* 4. Attention Deficit 5. Hyperactivity *Non-Aggressive Externalising Problem Behaviour* 6. Non-Aggressive Conduct Disorder (Stealing, Lying, Vandalising) 7. Opposition/Defiance *Aggression* 8. Physical Aggression 9. Indirect Aggression 10. Instrumental Aggressions/Dominance 11. Reactive Aggression *Psychopathy* 12. Cruelty to Animals (as a psychopathy proxy)
Number of Items	55
Response Categories	5-point Likert scale (from "never" to "very often")
Item Examples	• "CHILD cries a lot." (Anxiety) • "CHILD fidgets." (Hyperactivity) • "CHILD steals outside the home." (Non-Aggressive CD) • "CHILD listens to others' points of view." (Prosociality)
Administration History	Wave 1, Wave 2 (adapted), Wave 3, Wave 4 (adapted)

Data Collection Overview

Interview Language	German / Swiss-German
Interviewee	Target child: median age 9.1 years
Interview Setting	• Computer aided personal face-to-face interviews. • No other persons than the interviewer and the target child were present during the interviews. • Interviews were conducted at the child's school in a separate room during regular class hours. Children who moved away from a study school were interviewed at home.
Fieldwork	27.09.2006 – 26.01.2007 (main fieldwork in study schools: 30.10.2006 – 1.12.2006)
Number of Completed Interviews	1322 of (1361 at Wave 1 and 1335 at Wave 2)
Interview Duration (Median)	37:00 minutes

Tom & Tina *(cont.)*

Instrument Image



1. Indirect Aggression Subscale

Variable Wording & Case Summary

Variable Name	Label	Wording	Missings (%)
K2_8105	Ind.aggression05	Anderen sagen, dass sie nicht nett sein sollen zu einem Kind, welches man nicht mag oder auf welches man wütend ist	1 (0.1%)
K2_8110	Ind.aggression10	Sich absichtlich mit anderen Kindern zusammenschliessen welche man sonst nicht mag, da man auf ein anderes Kind wütend ist	1 (0.1%)
K2_8115	Ind.aggression15	Gemeinheiten über ein Kind in der Schule erzählen, auf welches man wütend ist	1 (0.1%)
K2_8120	Ind.aggression20	Zu den anderern sagen, dass sie nicht mehr mit dem Kind spielen sollen, auf welches man wütend ist	1 (0.1%)
K2_8125	Ind.aggression25	Anderen Kindern Geheimnisse des Kindes weitererzählen, auf welches man wütend ist	1 (0.1%)

Total N = 1335

Descriptive Statistics

Variable Name	Label	Mean	Standard Deviation	Skewness	Kurtosis	Item-Scale Correlation	α If Item Removed (α = .552)
K2_8105	Ind.aggression05	.08	0.27	3.11	7.71	.314	.497
K2_8110	Ind.aggression10	.30	0.46	0.86	-1.27	.233	.620
K2_8115	Ind.aggression15	.06	0.24	3.60	10.99	.413	.454
K2_8120	Ind.aggression20	.07	0.26	3.25	8.59	.434	.436
K2_8125	Ind.aggression25	.05	0.23	3.92	13.39	.325	.499

Comments:

1) Low Alpha-value, low Item-Scale-Correlation
2) Item K2_8110 with low Item-Scale-Correlation and increased Alpha when removed
3) Items K2_8105, K2_8115, K2_8120 and K2_8125 with excessive skewness and high kurtosis, item K2_8110 with low kurtosis

Sum Index Descriptive Statistics

Indirect Aggression Subscale

Group	N	Mean	Standard Deviation	Min.	Max.	Skew-ness	Kurtosis	*ANOVA* df	F	p
Full sample	1334	0.12	0.18	0	1.00	2.08	5.11			
Gender								1	5.44	.020
Girls	657	0.10	0.18	0	1.00	2.12	5.83			
Boys	677	0.12	0.19	0	1.00	2.00	4.59			
Treatment								3	0.58	.626
Control	341	0.11	0.18	0	1.00	2.32	6.84			
Triple P	326	0.11	0.18	0	1.00	2.36	7.18			
PATHS	365	0.12	0.18	0	1.00	1.97	4.27			
Combination	302	0.13	0.19	0	1.00	1.70	2.86			

Comments:

1) Significant F-value for gender group differences
2) All items with excessive skewness and high kurtosis

Correlations with Subscales & DVs

Indirect Aggression Subscale

Variable	r	p	N	Boys r	p	N	Girls r	p	N
Subscales									
Teacher SBQ2.1									
Total Aggression	.164	***	1305	.168	***	663	.142	***	642
Prosociality	-.100	***	1306	-.087	*	.025	-.086	*	643
Parent SBQ									
Aggression	.049	ns	1173	.055	ns	614	.025	ns	559
Prosociality	-.016	ns	1171	.001	ns	615	-.012	ns	556
Child SBQ									
Aggression	.486	***	1334	.507	***	677	.453	***	657
Prosociality	-.153	***	1334	-.138	***	677	-.160	***	657

[1] *** p<.001, ** p<.01, * p<.05, ns p>.05

Comments:

1) High correlation with Teacher SBQ and Child SBQ
2) No significant correlation with Parent SBQ

2. Non-Aggressive Conduct Disorder Subscale

Variable Wording & Case Summary *Subscale Non-Aggressive Conduct Disorder*

Variable Name	Label	Wording	Missings (%)
K2_8102	Nonaggressive02	Zu Hause unerlaubt Geld genommen	1 (0.1%)
K2_8107	Nonaggressive07	Etwas in einem Laden gestohlen	1 (0.1%)
K2_8112	Nonaggressive12	So wütend sein, dass man eigene Sachen kaputt macht	1 (0.1%)
K2_8134	Nonaggressive34	Absichtlich Sachen von Personen aus der Familie kaputt machen	1 (0.1%)
K2_8136	Nonaggressive36	Eltern anlügen, wenn man etwas angestellt hat	1 (0.1%)

Total N = 1335

Descriptive Statistics

Variable Name	Label	Mean	Standard Deviation	Skewness	Kurtosis	Item-Scale Correlation	α If Item Removed (α = .292)
K2_8102	Nonaggressive02	.06	0.24	3.58	10.81	.188	.217
K2_8107	Nonaggressive07	.04	0.20	4.57	18.94	.114	.272
K2_8112	Nonaggressive12	.14	0.35	2.04	2.16	.190	.194
K2_8134	Nonaggressive34	.02	0.14	6.82	44.60	.183	.253
K2_8136	Nonaggressive36	.56	0.50	-0.24	-1.94	.128	.322

Comments:

1) Low Alpha-value, low Item-Scale-Correlation
2) Items K2_8102, K2_8107, K2_8112, K2_8134 with excessive skewness and high kurtosis
3) Item K2_8136 with low kurtosis

Sum Index Descriptive Statistics

Non-Aggressive Conduct Disorder Subscale

Group	N	Mean	Standard Deviation	Min.	Max.	Skew-ness	Kurtosis	*ANOVA* df	F	p
Full sample	1334	0.17	0.16	0	1.00	0.97	1.32			
Gender								1	707.27	.000
Girls	657	0.07	0.14	0	0.80	2.12	4.32			
Boys	677	0.26	0.12	0	1.00	2.19	5.56			
Treatment								3	1.55	.201
Control	341	0.17	0.16	0	1.00	0.95	1.76			
Triple P	326	0.15	0.15	0	0.80	1.09	1.37			
PATHS	365	0.17	0.17	0	0.80	1.09	1.37			
Combination	302	0.16	0.15	0	0.60	0.65	0.17			

Comments:

1) Significant F-value for gender group differences
2) Subgroup girls, boys, triple p and PATHS with excessive skewness
3) Subgroup girls, boys, control, triple p and PATHS with high kurtosis

Correlations with Subscales & DVs

Non-Aggressive Conduct Disorder Subscale

				Boys			Girls		
Variable	**r**	**p**	**N**	**r**	**p**	**N**	**r**	**p**	**N**
Subscales									
Teacher SBQ2.1									
Total Aggression	.144	***	1305	.088	*	663	.052	ns	642
Prosociality	-.184	***	1306	-.020	ns	663	-.012	ns	643
Parent SBQ									
Aggression	.151	***	1173	.126	**	614	.063	ns	559
Prosociality	-.145	***	1171	-.055	ns	615	-.052	ns	556
Child SBQ									
Aggression	.459	***	1334	.510	***	677	.433	***	657
Prosociality	-.136	***	1334	-.113	**	677	.005	ns	657

[1] *** p<.001, ** p<.01, * p<.05, ns p>.05

Comments:

1) Significant correlation with Teacher SBQ Total aggression, Parent SBQ Aggression and Child SBQ Prosociality disappears for girls subgroup

3. Opposition/Defiance Subscale

Variable Wording & Case Summary
Subscale Opposition

Variable Name	Label	Wording	Missings (%)
K2_8117	Opposition17	Nicht das machen, was die Lehrerin sagt	1 (0.1%)
K2_8122	Opposition22	Nicht das machen, was Mutter verlangt	1 (0.1%)
K2_8127	Opposition27	Nicht das machen, was Vater verlangt	1 (0.1%)
K2_8131	Opposition31	Mutter nicht zuhören, wenn sie etwas sagt	1 (0.1%)

Total N = 1335

Descriptive Statistics

Variable Name	Label	Mean	Standard Deviation	Skewness	Kurtosis	Item-Scale Correlation	α If Item Removed (α = .669)
K2_8117	Opposition17	0.15	0.36	1.99	1.96	.317	.678
K2_8122	Opposition22	0.31	0.46	0.83	-1.32	.512	.558
K2_8127	Opposition27	0.27	0.44	1.05	-0.90	.516	.554
K2_8131	Opposition31	0.23	0.42	1.26	-0.42	.461	.594

Comments :

1) Item K2_8117 with low Item-Scale-Correlation and increased Alpha when removed
2) Items K2_8117, K2_8127 and K2_8131 with excessive skewness, item K2_8117 with high kurtosis, item K2_8122 with low kurtosis

Sum Index Descriptive Statistics

Opposition Subscale

Group	N	Mean	Standard Deviation	Min.	Max.	Skew-ness	Kurtosis	*ANOVA* df	F	p
Full sample	1334	0.24	0.30	0	1.00	1.03	-0.03			
Gender								1	0.00	.985
Girls	657	0.24	0.29	0	1.00	0.88	-0.38			
Boys	677	0.24	0.31	0	1.00	1.15	0.18			
Treatment								3	1.43	.234
Control	341	0.23	0.29	0	1.00	1.03	-0.05			
Triple P	326	0.21	0.29	0	1.00	1.24	0.60			
PATHS	365	0.26	0.31	0	1.00	0.95	-0.22			
Combination	302	0.26	0.30	0	1.00	0.94	-0.26			

Comments:

1) Significant F-value for gender group differences
2) Boys, control and triple p subgroups with excessive skewness

Correlations with Subscales & DVs

Opposition Subscale

				Boys			Girls		
Variable	**r**	**p**	**N**	**r**	**p**	**N**	**r**	**p**	**N**
Subscales									
Teacher SBQ2.1									
Total Aggression	.029	ns	1305	.048	ns	663	.002	ns	642
Prosociality	-.018	ns	1306	-.027	ns	663	-.007	ns	643
Parent SBQ									
Aggression	.078	**	1173	.075	ns	614	.082	ns	559
Prosociality	-.077	**	1171	-.068	ns	615	-.090	*	556
Child SBQ									
Aggression	.370	***	1334	.436	***	677	.288	***	657
Prosociality	-.138	***	1334	-.211	***	677	-.031	ns	657

[1] *** p<.001, ** p<.01, * p<.05, ns p>.05

Comments:

1) High correlations with Child SBQ Aggression and Prosociality

2) Significant correlations for Teacher SBQ Total Aggression and Prosociality disappear for girl subgroup

4. Physical Aggression Subscale

Variable Wording & Case Summary
Subscale Physical Aggression

Variable Name	Label	Wording	Missings (%)
K2_8104	Physicalaggression04	Streit mit anderen Kindern haben	1 (0.1%)
K2_8109	Physicalaggression09	Auf andere Kinder losgehen um sie zu hauen	1 (0.1%)
K2_8114	Physicalaggression14	Andere Kinder treten oder schlagen	1 (0.1%)
K2_8119	Physicalaggression19	Gemein sein zu anderen Kindern	1 (0.1%)
K2_8132	Physicalaggression32	Mutter hauen oder treten, wenn wütend	1 (0.1%)

Total N = 1335

Descriptive Statistics

Variable Name	Label	Mean	Standard Deviation	Skewness	Kurtosis	Item-Scale Correlation	α If Item Removed (α = .573)
K2_8104	Physicalaggression04	0.33	0.47	0.74	-1.46	.348	.554
K2_8109	Physicalaggression09	0.08	0.27	3.13	7.82	.459	.457
K2_8114	Physicalaggression14	0.13	0.34	2.22	2.92	.425	.459
K2_8119	Physicalaggression19	0.04	0.19	4.77	20.78	.336	.533
K2_8132	Physicalaggression32	0.05	0.22	4.05	14.45	.209	.574

Comments:

1) Item K2_8132 with low Item-Scale-Correlation and increased Alpha when removed
2) Items K2_8109, K2_8114, K2_8119 and K2_8132 with excessive skewness and high kurtosis, item K2_8104 with low kurtosis

Sum Index Descriptive Statistics

Physical Aggression Subscale

Group	N	Mean	Standard Deviation	Min.	Max.	Skew-ness	Kurtosis	*ANOVA* df	F	p
Full sample	1334	0.13	0.19	0	1.00	1.81	3.37			
Gender								1	35.42	.000
Girls	657	0.09	0.16	0	0.80	2.14	5.03			
Boys	677	0.15	0.21	0	1.00	1.53	2.25			
Treatment								3	1.47	.221
Control	341	0.12	0.19	0	1.00	2.00	4.12			
Triple P	326	0.12	0.18	0	1.00	2.00	4.81			
PATHS	365	0.14	0.20	0	1.00	1.51	1.79			
Combination	302	0.12	0.18	0	1.00	1.91	3.83			

Comments:

1) Significant F-value for Gender group differences
2) All subgroups with excessive skewness and high kurtosis

Correlations with Subscales & DVs

Physical Aggression Subscale

				Boys			Girls		
Variable	**r**	**p**	**N**	**r**	**p**	**N**	**r**	**p**	**N**
Subscales									
Teacher SBQ2.1									
Total Aggression	.246	***	1305	.276	***	663	.147	***	642
Prosociality	-.145	***	1306	-.126	**	663	-.074	ns	643
Parent SBQ									
Aggression	.196	***	1173	.183	***	614	.180	***	559
Prosociality	-.068	*	1171	-.052	ns	615	-.033	ns	556
Child SBQ									
Aggression	.837	***	1334	.850	***	677	.804	***	657
Prosociality	-.167	***	1334	-.213	***	677	-.028	ns	657

[1] *** p<.001, ** p<.01, * p<.05, ns p>.05

Comments:

1) Significant correlation with Teacher SBQ Prosociality and Child SBQ Prosociality disappears for girls-subgroup
2) High correlation with all aggression subscales

5. Prosociality Subscale

Variable Wording & Case Summary ***Subscale Prosociality***

Variable Name	Label	Wording	Missings (%)
K2_8101	Prosociality01	Mitleid haben mit einem Kind, welches etwas angestellt hat	1 (0.1%)
K2_8106	Prosociality06	Unordnung aufräumen, die jemand anders gemacht hat	1 (0.1%)
K2_8111	Prosociality11	Frieden stiften wenn andere Kinder Streit haben	1 (0.1%)
K2_8116	Prosociality16	Helfen, wenn sich ein Kind verletzt hat	1 (0.1%)
K2_8121	Prosociality21	Kind einladen um mit anderen zu spielen	1 (0.1%)
K2_8126	Prosociality2	Dinge aufheben, welche anderen Kinder runtergefallen sind	1 (0.1%)
K2_8130	Prosociality30	Trauriges oder weinendes Kind trösten	1 (0.1%)
K2_8133	Prosociality33	Trotzdem zuhören, wenn ein Kind etwas erzählt, mit dem man nicht einverstanden ist	1 (0.1%)
K2_8135	Prosociality35	Schnell merken, ob jemand traurig oder fröhlich ist	1 (0.1%)
K2_8137	Prosociality37	Sachen teilen	1 (0.1%)

Total N = 1335

Descriptive Statistics

Variable Name	Label	Mean	Standard Deviation	Skewness	Kurtosis	Item-Scale Correlation	α If Item Removed (α = .603)
K2_8101	Prosociality01	0.73	0.44	-1.06	-0.89	.190	.614
K2_8106	Prosociality06	0.83	0.37	-1.78	1.17	.296	.573
K2_8111	Prosociality11	0.88	0.32	-2.39	3.70	.284	.575
K2_8116	Prosociality16	0.96	0.19	-4.82	21.28	.340	.573
K2_8121	Prosociality21	0.94	0.24	-3.66	11.38	.282	.578
K2_8126	Prosociality2	0.90	0.30	-2.72	5.39	.306	.570
K2_8130	Prosociality30	0.91	0.29	-2.81	5.89	.337	.564
K2_8133	Prosociality33	0.88	0.33	-2.34	3.49	.300	.571
K2_8135	Prosociality35	0.88	0.33	-2.33	3.44	.261	.581
K2_8137	Prosociality37	0.95	0.23	-4.00	13.64	.310	.574

Comments:

1) Low Alpha-value, low Item-Scale-Correlation
2) All items with low skewness, all items exept K2_8101 with high kurtosis
3) Item K2_8101 with low Item-Scale-Correlation and increased Alpha when removed

Sum Index Descriptive Statistics

Prosociality Subscale

Group	N	Mean	Standard Deviation	Min.	Max.	Skew-ness	Kurtosis	*ANOVA* df	F	p
Full sample	1334	0.89	0.15	0	1.00	-2.17	6.87			
Gender								1	31.14	.000
Girls	657	0.91	0.12	0.20	1.00	-2.00	5.34			
Boys	677	0.86	0.16	0	1.00	-2.08	6.00			
Treatment								3	0.52	.666
Control	341	0.88	0.16	0	1.00	-2.38	7.92			
Triple P	326	0.89	0.13	0.10	1.00	-2.30	9.24			
PATHS	365	0.88	0.16	0.10	1.00	-2.00	4.51			
Combination	302	0.89	0.13	0.10	1.00	-1.85	5.44			

Comments:

1) Significant F-value for gender group differences
2) Low skewness and high kurtosis for all groups

Correlations with Subscales & DVs	**Prosociality Subscale**								
				Boys			**Girls**		
	Variable	**r**	**p**	**N**	**r**	**p**	**N**	**r**	**p**	**N**
	Subscales								
	Teacher SBQ2.1								
	Total Aggression	-.021	ns	1305	-.023	ns	663	.045	ns	642
	Prosociality	.141	***	1306	.163	***	663	.019	ns	643
	Parent SBQ								
	Aggression	-.076	**	1173	-.085	*	614	-.013	ns	559
	Prosociality	.087	**	1171	.062	ns	615	.060	ns	556
	Child SBQ								
	Aggression	-.227	***	1334	-.273	***	677	-.096	*	657
	Prosociality	-	-	-	-	-	-	-	-	-
	[1] *** p<.001, ** p<.01, * p<.05, ns p>.05									
	Comments:									
	1) Significant correlation with Teacher SBQ Prsociality and Parent SBQ Aggression disappears for girl subgroup									

6. ProActive Aggression Subscale

Variable Wording & Case Summary ***Subscale ProActive Aggression***

Variable Name	Label	Wording	Missings (%)
K2_8124	Proactiveaggression24	Anderen Kindern absichtlich Angst machen	1 (0.1%)
K2_8103	Proactiveaggression03	Anderen Kindern sagen ein anderes Kind auszulachen	1 (0.1%)
K2_8108	Proactiveaggression08	Versuchen, andere Kinder zu kommandieren	1 (0.1%)
K2_8113	Proactiveaggression13	Anderen Kinder Angst machen, um etwas zu erhalten oder sie dazu zu bringen zu tun, was man möchtet	1 (0.1%)

Total N = 1335

Descriptive Statistics

Variable Name	Label	Mean	Standard Deviation	Skewness	Kurtosis	Item-Scale Correlation	α If Item Removed (α = .527)
K2_8124	Proactiveaggression24	0.05	0.22	4.12	15.02	.353	.425
K2_8103	Proactiveaggression03	0.05	0.22	4.20	15.64	.277	.487
K2_8108	Proactiveaggression08	0.09	0.29	2.85	6.15	.280	.513
K2_8113	Proactiveaggression13	0.04	0.19	4.93	22.35	.394	.406

Comments:

1) All Items with excessive skewness and high kurtosis
2) Low Alpha-value, low Item-Scale-Correlation

Sum Index Descriptive Statistics

ProActive Aggression Subscale

Group	N	Mean	Standard Deviation	Min.	Max.	Skew-ness	Kurtosis	*ANOVA* df	F	p
Full sample	1334	0.06	0.15	0	1.00	3.23	12.06			
Gender								1	14.33	.000
Girls	657	0.04	0.13	0	0.75	3.44	12.31			
Boys	677	0.72	0.17	0	1.00	2.98	10.50			
Treatment								3	2.91	.033
Control	341	0.05	0.14	0	1.00	3.59	15.46			
Triple P	326	0.05	0.13	0	1.00	3.20	12.38			
PATHS	365	0.08	0.18	0	1.00	2.83	8.46			
Combination	302	0.05	0.12	0	0.75	3.09	11.05			

Comments:

1) Significant F-value for gender and treatment group differences

Correlations with Subscales & DVs

ProActive Aggression Subscale

Variable	r	p	N	Boys r	p	N	Girls r	p	N
Subscales									
Teacher SBQ2.1									
Total Aggression	.153	***	1305	.164	***	663	.103	**	642
Prosociality	-.048	ns	1306	-.003	ns	663	-.042	ns	643
Parent SBQ									
Aggression	.156	***	1173	.136	**	614	.159	***	559
Prosociality	-.017	ns	1171	.014	ns	615	-.021	ns	556
Child SBQ									
Aggression	.684	***	1334	.718	***	677	.616	***	657
Prosociality	-.192	***	1334	-.185	***	677	-.170	***	657

[1] *** p<.001, ** p<.01, * p<.05, ns p>.05

Comments:

1) Significant correlations with Teacher SBQ Total Aggression, Parent SBQ Aggression and Child SBQ Aggression and Prosociality

7. Reactive Aggression Subscale

Variable Wording & Case Summary ***Subscale Reactive Aggression***

Variable Name	Label	Wording	Missings (%)
K2_8118	Reactiveaggression18	Schnell wütend werden und schlagen, wenn von anderen geneckt	1 (0.1%)
K2_8123	Reactiveaggression23	Böse werden, wenn ein Kind etwas von einem haben will	1 (0.1%)
K2_8128	Reactiveaggression28	Böse werden, wenn man nicht bekommt, was man will	1 (0.1%)

Total N = 1335

Descriptive Statistics

Variable Name	Label	Mean	Standard Deviation	Skewness	Kurtosis	Item-Scale Correlation	α If Item Removed (α = .507)
K2_8118	Reactiveaggression18	0.21	0.41	1.40	-0.03	.316	.420
K2_8123	Reactiveaggression23	0.26	0.44	1.07	-0.90	.292	.457
K2_8128	Reactiveaggression28	0.36	0.48	0.60	-1.65	.365	.332

Comments:

1) Low Alpha-value, low Item-Scale-Correlation
2) Items K2_8118 an K2_8123 with excessive skewness, item K2_8128 with low kurtosis

Sum Index Descriptive Statistics

Reactive Aggression Subscale

Group	N	Mean	Standard Deviation	Min.	Max.	Skew-ness	Kurtosis	*ANOVA* df	F	p
Full sample	1334	0.28	0.32	0	1.00	0.83	-0.40			
Gender								1	9.18	.002
Girls	657	0.25	0.30	0	1.00	0.94	-0.13			
Boys	677	0.30	0.33	0	1.00	0.73	-0.62			
Treatment								3	6.49	.000
Control	341	0.27	0.32	0	1.00	0.83	-0.51			
Triple P	32	0.24	0.30	0	1.00	1.04	0.11			
PATHS	365	0.34	0.33	0	1.00	0.55	-0.86			
Combination	302	0.26	0.30	0	1.00	1.01	0.17			

Comments:

1) Significant F-value for gender and treatment group differences
2) Triple P and Combination subgroups with excessive skewness

Correlations with Subscales & DVs

Reactive Aggression Subscale

				Boys			Girls		
Variable	r	p	N	r	p	N	r	p	N
Subscales									
Teacher SBQ2.1									
Total Aggression	.128	***	1305	.140	***	663	.089	*	642
Prosociality	-.071	**	1306	-.041	ns	663	-.061	ns	643
Parent SBQ									
Aggression	.163	***	1173	.188	***	614	.116	**	559
Prosociality	-.123	***	1171	-.128	**	615	-.093	*	556
Child SBQ									
Aggression	.804	***	1334	.807	***	677	.803	***	657
Prosociality	-.183	***	1334	-.248	***	677	-.061	ns	657

[1] *** p<.001, ** p<.01, * p<.05, ns p>.05

Comments :

1) Significant correlation with Child SBQ Prosociality disappears for girls subgroup
2) High correlations with Parent SBQ Aggression and Prosociality, Teacher SBQ and Child SBQ Aggression

8. Aggression Subscale

Variable Wording & Case Summary
Subscale Aggression

Variable Name	Label	Wording	Missings (%)

N=1335

Descriptive Statistics

Variable Name	Label	Mean	Standard Deviation	Skewness	Kurtosis	Item-Scale Correlation	α If Item Removed (α = .724)
K2_8104	Physicalaggression04	0.33	0.47	0.74	-1.46	.427	.698
K2_8109	Physicalaggression09	0.08	0.27	3.13	7.82	.483	.693
K2_8114	Physicalaggression14	0.13	0.34	2.22	2.92	.423	.697
K2_8119	Physicalaggression19	0.04	0.19	4.77	20.78	.373	.709
K2_8132	Physicalaggression32	0.05	0.22	4.05	14.45	.241	.719
K2_8118	Reactiveaggression18	0.21	0.41	1.40	-0.03	.443	.693
K2_8123	Reactiveaggression23	0.26	0.44	1.07	-0.90	.313	.717
K2_8128	Reactiveaggression28	0.36	0.48	0.60	-1.65	.410	.702
K2_8103	Proactiveaggression03	0.05	0.22	4.20	15.64	.283	.716
K2_8108	Proactiveaggression08	0.09	0.29	2.85	6.15	.342	.708
K2_8113	Proactiveaggression13	0.04	0.19	4.93	22.35	.331	.713
K2_8124	Proactiveaggression24	0.05	0.22	4.12	15.02	.416	.704

Comments:

1) Items K2_8109, K2_8114, K2_8119, K2_8132, K2_8103, K2_8108, K2_8113 and K2_8124 with excessive skewness and high kurtosis, items K2_8104 and K2_8128 with low kurtosis, K2_8118 and K2_8123 with excessive skewness

Sum Index Descriptive Statistics

Aggression Subscale

Group	N	Mean	Standard Deviation	Min.	Max.	Skew-ness	Kurtosis	*ANOVA* df	*ANOVA* F	*ANOVA* p
Full sample	1334	0.14	0.16	0	0.92	1.64	3.12			
Gender								1	30.30	.000
Girls	657	0.12	0.14	0	0.75	1.66	3.20			
Boys	677	0.16	0.18	0	0.92	1.51	2.47			
Treatment								3	5.26	.001
Control	341	0.13	0.16	0	0.92	1.55	2.73			
Triple P	326	0.13	0.15	0	0.92	1.84	4.86			
PATHS	365	0.17	0.18	0	0.92	1.44	2.09			
Combination	302	0.13	0.16	0	0.83	1.79	3.69			

Comments:

1) Significant F-value for gender and treatment group differences

2) All subgroups with excessive skewness and high kurtosis

Correlations with Subscales & DVs

Aggression Subscale

Variable	r	p	N	Boys r	Boys p	Boys N	Girls r	Girls p	Girls N
Subscales									
Teacher SBQ2.1									
Total Aggression	.288	***	1305	.249	***	663	.149	***	642
Prosociality	-.119	***	1306	-.081	*	663	-.081	*	643
Parent SBQ									
Aggression	.222	***	1173	.217	***	614	.198	***	559
Prosociality	-.098	**	1171	-.080	*	615	-.073	ns	556
Child SBQ									
Aggression	-	-	-	-	-	-	-	-	-
Prosociality	-.227	***	1334	-.273	***	677	-.096	*	657

[1] *** p<.001, ** p<.01, * p<.05, ns p>.05

Comments:

1) Significant correlation with Parent SBQ Prosociality disappears for girls-subgroup

2) High correlation with Teacher SBQ Total Aggression and Prosociality, Parent ABQ Aggression and Child SBQ Prosociality