

A matter of perspective? Differences between adolescent-parent and parent-teacher pairs in responses to the Strengths and Difficulties Questionnaire using a Scottish national cohort study

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Appendix

Table 1
CFA fit for SDQ 5-factor structure

Reporter	Age	CFI	RMSEA	SRMR	N
Adolescent	14	0.861	0.049	0.056	2300
Parent	14	0.870	0.048	0.047	1936
Teacher	10	0.862	0.050	0.060	1242
Parent	10	0.847	0.048	0.049	1597

Table 2
Univariate CFA for SDQ components

Component	CFI	RMSEA	SRMR	N
Parent reports, age 14				
Hyperactivity	0.810	0.214	0.076	2306
Conduct	0.849	0.086	0.049	2328
Emotion	0.964	0.078	0.031	2312
Peer	0.974	0.047	0.026	2107
Pro-social	0.983	0.039	0.021	2254
Adolescent self-reports, age 14				
Hyperactivity	0.884	0.150	0.065	2302
Conduct	0.987	0.026	0.017	2301
Emotion	0.983	0.059	0.024	2301
Peer	0.956	0.053	0.028	2302
Pro-social	0.998	0.012	0.011	2302
Parent reports, age 10				
Hyperactivity	0.817	0.212	0.067	1767
Conduct	0.848	0.078	0.054	1795
Emotion	0.952	0.073	0.035	1784
Peer	0.946	0.061	0.035	1673
Pro-social	0.979	0.036	0.021	1800
Teacher reports, age 10				
Hyperactivity	0.785	0.246	0.081	1755
Conduct	0.981	0.028	0.025	1653
Emotion	0.987	0.040	0.023	1585
Peer	0.950	0.056	0.034	1592
Pro-social	0.957	0.078	0.036	1580

Table 3

Metric Invariance fit for parent-adolescent pairs

Constraints	CFI	Δ CFI	RMSEA	Δ RMSEA	SRMR	Δ SRMR	N
Pro-social scale							
Configural	0.982	–	0.026	–	0.022	–	2154
Metric	0.975	-0.008	0.029	0.003	0.029	0.007	2159
Scalar	0.855	-0.012	0.066	0.037	0.053	0.025	2159
Partial scalar	0.964	0.010	0.033	0.004	0.033	0.004	2159
Peer problems							
Configural	0.965	–	0.036	–	0.025	–	2018
Metric	0.948	-0.017	0.041	0.005	0.038	0.013	2018
Scalar	0.750	-0.199	0.085	0.044	0.070	0.031	2018
Partial scalar	0.947	0.001	0.040	0.001	0.039	0.000	2018
Emotional symptoms							
Configural	0.974	–	0.046	–	0.026	–	2211
Metric	0.972	-0.002	0.045	0.002	0.030	0.004	2211
Scalar	0.909	-0.063	0.076	0.031	0.059	0.029	2211
Partial scalar	0.967	-0.005	0.046	0.002	0.034	0.004	2211

Note:

Parental reports are set as the base reporter group

Age 14 reports

Table 4

Metric Invariance fit for parent-teacher pairs

Constraints	CFI	Δ CFI	RMSEA	Δ RMSEA	SRMR	Δ SRMR	N
Pro-social scale							
Configural	0.951	–	0.046	–	0.031	–	1554
Metric	0.947	-0.005	0.045	0.001	0.037	0.006	1554
Scalar	0.920	-0.027	0.052	0.007	0.042	0.006	1554
Partial scalar	0.936	-0.010	0.047	0.002	0.039	0.002	1554
Peer problems							
Configural	0.932	–	0.044	–	0.034	–	1442
Metric	0.885	-0.047	0.056	0.012	0.065	0.030	1452
Emotional symptoms							
Configural	0.972	–	0.038	–	0.026	–	1545
Metric	0.971	-0.001	0.037	0.001	0.032	0.006	1545
Scalar	0.952	-0.019	0.045	0.008	0.038	0.006	1545
Partial scalar	0.963	0.008	0.040	0.003	0.035	0.003	1545

Note:

Peer problems analysis halted due to insufficient model fit

Parent are set as the base reporter group

Age 10 reports

Table 5

Parent-adolescent LDS estimates, conditional on adolescent gender

Component	Main effects		Boys			Girls			N
	Adolescent score	Δ	Adolescent	Parent	Δ	Adolescent	Parent	Δ	
Pro-social	0.250*	-0.161*	-0.152*	0.140*	0.292*	0.097*	0.228*	0.130*	2145
Peer	0.007	-0.095*	-0.003	0.108*	0.111*	0.004	0.021	0.017	2004
Emotion	0.314*	-0.237*	-0.022	-0.108*	-0.086*	0.295*	-0.028*	-0.324*	2195

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 6

Parent-adolescent LDS estimates, conditional on parental experiences of depression

Component	Main effects		Yes			No			N
	Adolescent score	Δ	Adolescent	Parent	Δ	Adolescent	Parent	Δ	
Pro-social	0.061*	-0.007	-0.091*	0.122*	0.212*	-0.030*	0.176*	0.206*	2159
Peer	-0.159*	-0.113*	0.063*	0.185*	0.122*	-0.096*	-0.088*	0.009	2018
Emotion	-0.107*	-0.066*	0.159*	-0.008	-0.168*	0.052*	-0.181*	-0.233*	2211

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 7

Parent-adolescent LDS estimates, conditional on housing tenure

Component	Main effects		Rent home			Own home			N
	Adolescent score	Δ	Adolescent	Parent	Δ	Adolescent	Parent	Δ	
Pro-social	0.049	0.012	-0.087*	0.118*	0.205*	-0.037*	0.180*	0.217*	2142
Peer	-0.128*	-0.105*	0.068*	0.201*	0.133*	-0.060*	-0.032	0.028	2002
Emotion	-0.131*	-0.013	0.183*	-0.010	-0.193*	0.052*	-0.154*	-0.206*	2193

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 8

Parent-adolescent LDS estimates, conditional on household language

Component	Main effects		Other language			Only English			N
	Adolescent score	Δ	Adolescent	Parent	Δ	Adolescent	Parent	Δ	
Pro-social	-0.017	0.100	-0.052	0.063	0.115*	-0.070*	0.145*	0.215*	2071
Peer	0.053	-0.076	-0.035	0.094	0.129	0.019	0.071*	0.052*	1938
Emotion	0.028	-0.022	0.072	-0.108*	-0.180*	0.100*	-0.103*	-0.202*	2121

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 9

Parent-adolescent LDS estimates, conditional on household finances

Component	Main effects		Other than managing well			Managing well			N
	Adolescent score	Δ	Adolescent	Parent	Δ	Adolescent	Parent	Δ	
Pro-social	0.064*	0.000	-0.092*	0.116*	0.209*	-0.029*	0.180*	0.209*	2159
Peer	-0.120*	-0.054	0.052*	0.144*	0.092*	-0.068*	-0.030	0.038	2018
Emotion	-0.056*	-0.093*	0.138*	-0.012	-0.150*	0.081*	-0.161*	-0.243*	2211

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 10

Parent-adolescent LDS estimates, conditional on family composition

Component	Main effects		Single parent			Couple			N
	Adolescent score	Δ	Adolescent	Parent	Δ	Adolescent	Parent	Δ	
Pro-social	0.057*	-0.011	-0.091*	0.130*	0.221*	-0.034*	0.176*	0.210*	2159
Peer	-0.143*	-0.058	0.080*	0.184*	0.104*	-0.063*	-0.017	0.046*	2018
Emotion	-0.105*	-0.031	0.181*	0.000	-0.181*	0.075*	-0.136*	-0.211*	2211

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 11

Parent-teacher LDS estimates, conditional on gender

Component	Main effects		Boys			Girls			N
	Teacher score	Δ	Teacher	Parent	Δ	Teacher	Parent	Δ	
Pro-social	0.175*	-0.064*	-0.072*	0.029*	0.102*	0.103*	0.140*	0.038*	1554
Emotion	0.004	-0.025	-0.020*	0.065*	0.085*	-0.016	0.044*	0.060*	1545

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 12

Parent-teacher LDS estimates, conditional on parental mental health

Component	Main effects		Below average			Average or above			N
	Teacher score	Δ	Teacher	Parent	Δ	Teacher	Parent	Δ	
Pro-social	0.078*	-0.023	-0.059*	0.026	0.085*	0.019	0.081*	0.062*	1554, 1545
Emotion	-0.092*	-0.064*	0.048*	0.175*	0.127*	-0.044*	0.019*	0.063*	1554, 1545

Note:

Unstandardised solution

Sampling weights applied.

Below average = >1 standard deviation below sample mean* * $p < 0.05$

Table 13

Parent-teacher LDS estimates, conditional on housing tenure

Component	Main effects		Rent home			Own home			N
	Teacher score	Δ	Teacher	Parent	Δ	Teacher	Parent	Δ	
Pro-social	0.061*	0.001	-0.043*	0.021	0.064*	0.019	0.084*	0.065*	1507
Emotion	0.063*	-0.016	0.018	0.103*	0.084*	-0.044*	0.024*	0.068*	1501

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 14

Parent-teacher LDS estimates, conditional on maternal education

Component	Main effects		Below Scottish Highers level			At or above Highers			N
	Teacher score	Δ	Teacher	Parent	Δ	Teacher	Parent	Δ	
Pro-social	0.005	0.029	-0.023	0.020	0.043	-0.018	0.054*	0.072*	1543
Emotion	-0.023	-0.005	-0.004	0.072*	0.076*	-0.027*	0.045*	0.072*	1535

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 15

Parent-teacher LDS estimates, conditional on family composition

Component	Main effects		Single parent			Couple family			N
	Teacher score	Δ	Teacher	Parent	Δ	Teacher	Parent	Δ	
Pro-social	0.060	-0.033	-0.047	0.046*	0.092*	0.013	0.073*	0.059*	1554
Emotion	-0.035	-0.076*	0.004	0.138*	0.134*	-0.031*	0.027*	0.058*	1545

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$

Table 16

Parent-teacher LDS estimates, conditional on household finances

Component	Main effects		Other than managing well			Managing well			N
	Teacher score	Δ	Teacher	Parent	Δ	Teacher	Parent	Δ	
Pro-social	0.054*	-0.016	-0.037*	0.037*	0.074*	0.018	0.076*	0.058*	1554
Emotion	-0.046*	-0.030	0.010	0.091*	0.088*	-0.044*	0.015	0.058*	1544

Note:

Unstandardised solution

Sampling weights applied.

* * $p < 0.05$