

Interview on Emotional Experience

Grade 2/Year 3

Fast Track Project Technical Report

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SAS scoring program

Citations

Instrument

Conduct Problems Prevention Research Group (CPPRG). (1991). *Interview on Emotional Experience* [On-line]. Available: <http://www.fasttrackproject.org>

Reports

Rains, C. (2003). *Interview on Emotional Experience*. (Fast Track Project Technical Report). Available from the Fast Track Project website: <http://www.fasttrackproject.org>

Haynes, K. (1996). *Interview on Emotional Experience*. (Fast Track Project Technical Report). Nashville, TN: Vanderbilt University.

Haynes, K. (1995). *Interview on Emotional Experience*. (Fast Track Project Technical Report). Nashville, TN: Vanderbilt University.

Data Sources

Raw: C3Bex

Scored: IEE3

I. Scale Description

The Interview on Emotional Experience is a 22-item measure given to children as part of the summer interview for the first four years of the study. The measure focuses on four emotions—happiness, sadness, anger, and worry. For each emotion, the child is asked several questions about the emotion and the interviewer then codes the child's responses. The first question the child is asked for each emotion is, "What kinds of things make you feel ... (happy, sad, angry, worried)?" The interviewer prompts the child for two examples/responses for this question and then codes each response as appropriate, inappropriate, or no response. The second question the child is asked for each emotion is, "When you are feeling ... (happy, sad, angry, worried), what kinds of things do you do?" The interviewer prompts the child for two responses for this question and then codes each response as one of the following: no response (0), physically aggressive (1), verbally aggressive (2), avoidant/passive (3), affective display (4), communication with adult (5), communication with peer (6), self-control (7), prosocial (8), or doing things/other (9). Finally, for the emotions sad, angry, and worried, the child is asked, "If you saw another kid in your class looking ... (sad, angry, worried), what would you do?" Again the interviewer prompts the child for two responses and then codes the responses using the same scale (0-9) as for the

second question. This results in a total of four possible responses for happiness (two responses each for questions one and two only) and six possible responses each for sadness, anger, and worry (two responses each for all three questions).

II. Report Sample

These analyses were conducted on the first cohort on the high-risk control sample (n = 155) and the normative sample (n = 387 with overlap, total N = 463) from the third year of the study. Thirty-eight records were missing the complete measure. Thirteen records were missing from the high-risk control sample (4 from Durham, 2 from Nashville, 3 from Pennsylvania, and 4 from Washington) and 31 records were missing from the normative sample (6 from Durham, 10 from Nashville, 7 from Pennsylvania, and 8 from Washington). These numbers may reflect some overlap between the two samples.

III. Scaling

There are numerous ways that the IEE can be analyzed, including conducting separate analyses on each question, or by each emotion. Because of the high number of “no responses” to the second request/prompt for each question, it is recommended that the first response to each question be considered in the analyses of this instrument.

A number of scores and several scales are calculated as part of the IEE. The original response coding (0-9) for each item was transformed into a set of 10 dichotomous variables. First, a score is computed for each child in each of the response categories across the second and third questions by summing the number of times a child had a response for a category, resulting in 10 scores for the child (no response, physically aggressive, verbally aggressive, avoidant/passive, affective display, communication with adult, communication with peer, self-control, prosocial, or doing things/other). The child's score for each of these categories ranges from 0 to 7, with 0 being a low score (indicating that no response fit the category) and 7 being a high score (indicating that all of the child's responses fit the category), since only the first response to each question is included in the scoring program (this would then include the second question about happiness and the second and third questions about sadness, anger, and worry). A score of zero for one of these categories would indicate that the child gave responses that did not fit into that category (for example, the child might not have used any responses indicating the use of verbal aggression), while a score of 7 would indicate that the child used a particular type of response often (for example, the child might have used responses that showed communication with their peers when dealing with all of their emotions).

In addition, an *Appropriateness Score* is calculated by summing the number of times a child described an appropriate response for the emotion for the first question, “What kinds of things make you feel...?” This score can range from 0 to 4 since only the first response for each emotion was included in the scoring program. A standardized *Appropriateness Score* was also created because the standard deviation among the four items that make up the scale showed great variation for both the high-risk sample and the normative sample. Even with the standardization of the score, there was still some variation among the standard deviation of these items because the standardization was done on the full sample, and the variances differed somewhat by high-risk status. To create the standardized score, the items were first standardized with a mean of zero and a standard deviation of one, and then the mean was calculated as the score.

As there was almost no variation on the score for Happy (over 95% of the responses were correct), a second *Appropriateness Score*, *Appropriateness Score without the Happiness Item*, was created to include only responses for angry, sad, and worried. This score can range from 0 to 3. A standardized score was also created for this scale.

Finally, several scales are created by summing together two of the category scores and taking their mean. The scales include the *Aggression Scale* (Physical Aggression Score + Verbal Aggression Score), the *Communication Scale* (Communication with Adults Score + Communication with Peers Score), and the *Positive Response Scale* (Prosocial Score + Self-Control Score). These three scales have a range of 0 to 7.

Cronbach's alphas were calculated for each score and can be seen in the following table:

Subscales	Cronbach's Alpha	
	High-Risk Control Sample	Normative Sample
No Response score IEE Y3 (IEE3NRS)	.50	.39
Physical Aggression score IEE Y3 (IEE3PAG)	.29	.23
Verbal Aggression score IEE Y3 (IEE3VAG)	.30	.16
Avoidant/Passive score IEE Y3 (IEE3APS)	.45	.40
Affective Display score IEE Y3 (IEE3ADS)	.48	.53
Communication w/Adults score IEE Y3 (IEE3CWA)	.55	.48
Communication w/Peers score IEE Y3 (IEE3CWP)	.26	.27
Self-Control score IEE Y3 (IEE3SCS)	.35	.37
Prosocial score IEE Y3 (IEE3PSS)	.43	.42
Do Nothing score IEE Y3 (IEE3DNS)	.44	.36
Aggression Scale IEE Y3 (IEE3AGG)	.37	.22
Communication Scale IEE Y3 (IEE3COM)	.46	.34
Positive Response Scale IEE Y3 (IEE3PRS)	.42	.38
Appropriateness Score IEE Y3 (IEE3ASC)	.39	.61
Appropriateness Score Standardized Y3 (IEE3ASCz)	.39	.62
Appropriateness Score w/o Happiness Item IEE Y3 (IEE3AS2)	.43	.69
Appropriateness Score Standardized w/o Happiness Item Y3 (IEE3AS2z)	.44	.70

Given that there were more possible response scores (9) than there were questions (8), and some responses were rarely used, it is not surprising that the response scores do not have high internal consistency. Further, it might be expected that one would do something differently under conditions of happiness and anger, for example. No score showed an adequate internal reliability for both the normative and the high-risk control sample. The *Appropriateness Score*, the *Appropriateness Standardized Score*, the *Appropriateness Score without the Happiness Item*, and the *Appropriateness Standardized Score without the Happiness Item* showed adequate internal reliabilities for the normative sample only.

IV. Differences between Groups

A series of t-tests between the high-risk sample (not including the overlap) and the normative sample indicated significant differences for five scores: the *Physical Aggression Score*, the *Communication with Peers Score*, the *Prosocial Score*, the *Aggression Scale*, and the *Positive Response Scale*. For three of these scores--the *Positive Response Scale*, the *Communication with Peers Score*, and the *Prosocial Score*--the mean for the normative sample was greater than the mean for the control sample. For the *Physical Aggression Score* and the *Aggression Scale*, the mean for the control sample was greater than that of the normative sample.

The *Avoidant/Passive Score* approached significance ($p = .07$), with the control sample scoring a higher mean than that of the normative sample.

Comparison of Means for Normative and Control for IEE Year 3								
Variable	Label	Normative		Control		DF	t Value	Pr > t
		Mean	Std Dev	Mean	Std Dev			
IEE3NRS	No Response score IEE Y3	0.16	0.48	0.24	0.64	432	1.41	0.1603
IEE3PAG	Physical Aggression score IEE Y3	0.28	0.51	0.40	0.64	432	2.06	0.0403
IEE3VAG	Verbal Aggression score IEE Y3	0.05	0.24	0.07	0.30	432	0.62	0.5371
IEE3APS	Avoidant/Passive score IEE Y3	0.90	1.01	1.10	1.19	432	1.83	0.0683
IEE3ADS	Affective Display score IEE Y3	0.91	1.15	0.78	1.04	432	-1.11	0.2681
IEE3CWA	Communication w/Adults score IEE Y3	0.35	0.70	0.49	0.93	432	1.66	0.0984
IEE3CWP	Communication w/Peers score IEE Y3	0.26	0.56	0.14	0.42	432	-2.20	0.0283
IEE3SCS	Self-Control score IEE Y3	0.26	0.59	0.23	0.55	432	-0.65	0.5182
IEE3PSS	Prosocial score IEE Y3	2.56	1.03	2.21	1.14	432	-3.16	0.0017
IEE3DNS	Do Nothing score IEE Y3	1.15	1.05	1.16	1.09	432	0.11	0.9137
IEE3AGG	Aggression Scale IEE Y3	0.17	0.28	0.23	0.38	432	2.08	0.0385
IEE3COM	Communication Scale IEE Y3	0.31	0.44	0.32	0.51	432	0.16	0.8691
IEE3PRS	Positive Response Scale IEE Y3	1.41	0.60	1.22	0.65	432	-3.05	0.0024
IEE3ASC	Appropriateness Score IEE Y3	3.83	0.67	3.73	0.75	432	-1.33	0.1853
IEE3ASCz	Appropriateness Score Standardized Y3	0.01	0.83	-0.03	0.63	423	-0.40	0.6873
IEE3AS2	Appropriateness Score without Happiness Item IEE Y3	2.85	0.55	2.76	0.61	432	-1.49	0.1361
IEE3AS2z	Appropriateness Score Standardized without Happiness Item Y3	0.00	0.89	-0.06	0.85	421	-0.66	0.5105

V. Recommendations for Use

Users of the *Interview on Emotional Experience* measure should note that there are reliability problems for almost every scale for both the normative and the high-risk control samples. No score showed an adequate internal reliability for both the normative and the high-risk control samples. The *Appropriateness Score* ($\alpha = .61$), the *Appropriateness Standardized Score* ($\alpha = .62$), the *Appropriateness Score without Happiness Item* ($\alpha = .69$), and the *Appropriateness Score without Happiness Item* ($\alpha = .70$) showed adequate internal reliability for the normative sample only. The reliabilities for the other scores for the normative sample ranged from .16 to .53. For the high-risk control sample, the reliabilities ranged from .29 to .55.

Analysts should note that three scores showed a normal distribution for both the normative and the high-risk control samples: the *Positive Response Scale*, the *Do Nothing Score*, and the *Prosocial Score*. The *Appropriateness Score*, the *Appropriateness Score Standardized*, the *Appropriateness Score without the Happy Item*, and the *Appropriateness Score Standardized without the Happy Item* were negatively skewed for both samples. All of the other scores were positively distributed for both the normative and the high-risk control samples.

A number of scores showed floor effects. They included: the *No Response Score* (with 83% of the high-risk control sample and 87% of the normative sample scoring a 0), the *Physical Aggression Score* (with 68% of the high-risk control sample and 73% of the normative sample scoring a 0), the *Verbal Aggression Score* (with 95% of the high-risk control sample and the 95% of the normative sample scoring a 0), the *Affective Display Score* (with 53% of the high-risk control sample and 50% of the normative sample scoring a 0), the *Communication with Peers Score* (with 88% of the high-risk control sample and 81% of

the normative sample scoring a 0), and the *Self-Control Score* (with 82% of the high-risk control sample and 80% of the normative sample scoring a 0).

The *Aggression Scale* also had floor effects for both samples. For the high-risk control sample, 65% of the sample scored a 0.0 on the scale, while 92% of the total sample scored 0.5 or lower. For the normative sample, 69% scored 0.0 while a total of 95% of the sample scored 0.5 or lower.

The *Appropriateness Score*, showed a ceiling effect with 90% of the normative sample and 83% of the high-risk control sample scoring a 4. In addition, the means for the items in the *Appropriateness Score* were very close to 2.0 (the highest possible mean for an appropriateness item). The *Appropriateness Score without Happiness Item*, showed a ceiling effect with 90% of the normative sample and 83% of the high-risk control sample scoring a 3.

In addition, it needs to be noted that a number of items in the scales and scores had a zero variation. Scales and scores affected by the zero variation for some items include the *Aggression Scale* (high-risk control and normative samples), the *Positive Response Scale* (high-risk control and normative samples), the *Communication Scale* (high-risk control sample only), the *Physical Aggression Score* (high-risk control and normative samples), the *Verbal Aggression Score* (high-risk control and normative samples), and the *Self-Control Score* (high-risk control and normative samples), the *Affective Display Score* (high-risk control sample only), the *Communication with Peers Score* (high-risk control and normative samples), the *Appropriateness Score* (high-risk control sample only), and the *Appropriateness Score Standardized* (high-risk control sample only).

VI. Item and Scale Means and SDs

IEE Items Normative Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3BEX1	Happy-item 1	356	1.997	0.053	1.000	2.000
C3BEX2	Happy-item 2	356	1.975	0.204	0.000	2.000
C3BEX3	Happy-item 3	356	7.149	2.261	0.000	9.000
C3BEX4	Happy-item 4	356	7.121	2.487	0.000	9.000
C3BEX5	Sad-item 5	352	1.983	0.130	1.000	2.000
C3BEX6	Sad-item 6	356	1.947	0.300	0.000	2.000
C3BEX7	Sad-item 7	356	5.258	2.630	0.000	9.000
C3BEX8	Sad-item 8	356	5.219	2.999	0.000	9.000
C3BEX9	Sad-item 9	356	7.590	1.296	0.000	9.000
C3BEX10	Sad-item 10	356	7.084	2.070	0.000	9.000
C3BEX11	Angry-item 11	353	1.980	0.140	1.000	2.000
C3BEX12	Angry-item 12	356	1.930	0.357	0.000	2.000
C3BEX13	Angry-item 13	356	4.242	2.967	0.000	9.000
C3BEX14	Angry-item 14	356	4.132	2.971	0.000	9.000
C3BEX15	Angry-item 15	356	6.455	2.363	0.000	9.000
C3BEX16	Angry-item 16	356	5.949	2.964	0.000	9.000
C3BEX17	Worried-item 17	339	1.988	0.108	1.000	2.000
C3BEX18	Worried-item 18	356	1.784	0.611	0.000	2.000
C3BEX19	Worried-item 19	356	5.270	2.661	0.000	9.000
C3BEX20	Worried-item 20	355	4.887	3.184	0.000	9.000
C3BEX21	Worried-item 21	356	7.076	2.045	0.000	9.000
C3BEX22	Worried-item 22	356	6.211	3.002	0.000	9.000

IEE Subscales Normative Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
IEE3NRS	No Response score IEE Y3	362	0.169	0.496	0.000	4.000
IEE3PAG	Physical Aggression score IEE Y3	362	0.312	0.556	0.000	3.000
IEE3VAG	Verbal Aggression score IEE Y3	362	0.055	0.252	0.000	2.000
IEE3APS	Avoidant/Passive score IEE Y3	362	0.934	1.079	0.000	6.000
IEE3ADS	Affective Display score IEE Y3	362	0.873	1.124	0.000	6.000
IEE3CWA	Communication w/Adults score IEE Y3	362	0.392	0.792	0.000	6.000
IEE3CWP	Communication w/Peers score IEE Y3	362	0.229	0.531	0.000	4.000
IEE3SCS	Self-Control score IEE Y3	362	0.271	0.603	0.000	3.000
IEE3PSS	Prosocial score IEE Y3	362	2.464	1.039	0.000	5.000
IEE3DNS	Do Nothing score IEE Y3	362	1.185	1.069	0.000	5.000
IEE3AGG	Aggression Scale IEE Y3	362	0.184	0.309	0.000	2.000
IEE3PRS	Positive Response Scale IEE Y3	362	1.367	0.606	0.000	3.000
IEE3COM	Communication Scale IEE Y3	362	0.311	0.463	0.000	3.000
IEE3ASC	Appropriateness Score IEE Y3	362	3.818	0.657	0.000	4.000
IEE3ASCz	Appropriateness Score Standardized Y3	356	-0.015	0.826	-10.802	0.110
IEE3AS2	Appropriateness Score without happiness item IEE Y3	362	2.837	0.550	0.000	3.000
IEE3AS2z	Appropriateness Score Standardized without Happiness Item Y3	354	-0.028	0.931	-8.851	0.132

IEE Items Control Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3BEX1	Happy-item 1	142	2.000	0.000	2.000	2.000
C3BEX2	Happy-item 2	142	1.965	0.220	0.000	2.000
C3BEX3	Happy-item 3	142	7.408	2.263	0.000	9.000
C3BEX4	Happy-item 4	142	7.021	2.766	0.000	9.000
C3BEX5	Sad-item 5	138	1.978	0.146	1.000	2.000
C3BEX6	Sad-item 6	142	1.880	0.437	0.000	2.000
C3BEX7	Sad-item 7	142	5.021	2.722	0.000	9.000
C3BEX8	Sad-item 8	142	4.838	3.179	0.000	9.000
C3BEX9	Sad-item 9	142	7.394	1.598	0.000	9.000
C3BEX10	Sad-item 10	142	6.944	2.345	0.000	9.000
C3BEX11	Angry-item 11	142	1.979	0.144	1.000	2.000
C3BEX12	Angry-item 12	142	1.937	0.341	0.000	2.000
C3BEX13	Angry-item 13	142	3.789	2.919	0.000	9.000
C3BEX14	Angry-item 14	142	3.803	3.021	0.000	9.000
C3BEX15	Angry-item 15	142	5.986	2.576	0.000	9.000
C3BEX16	Angry-item 16	142	5.901	2.916	0.000	9.000
C3BEX17	Worried-item 17	132	1.977	0.150	1.000	2.000
C3BEX18	Worried-item 18	142	1.796	0.602	0.000	2.000
C3BEX19	Worried-item 19	142	4.845	2.594	0.000	9.000
C3BEX20	Worried-item 20	142	4.507	3.084	0.000	9.000
C3BEX21	Worried-item 21	142	6.620	2.437	0.000	9.000
C3BEX22	Worried-item 22	142	5.986	3.140	0.000	9.000

IEE Subscales Control Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
IEE3NRS	No Response score IEE Y3	146	0.240	0.636	0.000	4.000
IEE3PAG	Physical Aggression score IEE Y3	146	0.397	0.638	0.000	3.000
IEE3VAG	Verbal Aggression score IEE Y3	146	0.068	0.303	0.000	2.000
IEE3APS	Avoidant/Passive score IEE Y3	146	1.096	1.194	0.000	6.000
IEE3ADS	Affective Display score IEE Y3	146	0.781	1.041	0.000	4.000
IEE3CWA	Communication w/Adults score IEE Y3	146	0.486	0.927	0.000	6.000
IEE3CWP	Communication w/Peers score IEE Y3	146	0.144	0.423	0.000	3.000
IEE3SCS	Self-Control score IEE Y3	146	0.226	0.548	0.000	3.000
IEE3PSS	Prosocial score IEE Y3	146	2.212	1.140	0.000	6.000
IEE3DNS	Do Nothing score IEE Y3	146	1.158	1.093	0.000	4.000
IEE3AGG	Aggression Scale IEE Y3	146	0.233	0.377	0.000	2.000
IEE3PRS	Positive Response Scale IEE Y3	146	1.219	0.651	0.000	3.000
IEE3COM	Communication Scale IEE Y3	146	0.315	0.509	0.000	3.000
IEE3ASC	Appropriateness Score IEE Y3	146	3.733	0.745	0.000	4.000
IEE3ASCz	Appropriateness Score Standardized Y3	142	-0.026	0.634	-4.233	0.110
IEE3AS2	Appropriateness Score without happiness item IEE Y3	146	2.760	0.614	0.000	3.000
IEE3AS2z	Appropriateness Score Standardized without Happiness Item Y3	142	-0.057	0.846	-5.667	0.132

VII. Subscale Correlations

IEE Subscales Report Sample

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	IEE3NRS	IEE3PAG	IEE3VAG	IEE3APS	IEE3ADS	IEE3CWA	IEE3CWP	IEE3SCS	IEE3PSS	IEE3DNS
IEE3NRS No Response score IEE Y3	1.000 0.314 434	-0.048 0.314 434	0.038 0.436 434	-0.044 0.363 434	-0.073 0.129 434	-0.042 0.382 434	-0.059 0.222 434	-0.064 0.181 434	-0.232 0.000 434	0.011 0.819 434
IEE3PAG Physical Aggression score IEE Y3	-0.048 0.314 434	1.000 0.188 434	0.063 0.188 434	-0.038 0.431 434	-0.071 0.139 434	0.008 0.862 434	0.026 0.593 434	-0.129 0.007 434	-0.131 0.006 434	-0.140 0.003 434
IEE3VAG Verbal Aggression score IEE Y3	0.038 0.436 434	0.063 0.188 434	1.000 0.989 434	-0.001 0.989 434	-0.060 0.210 434	-0.045 0.355 434	0.059 0.223 434	-0.081 0.092 434	-0.131 0.006 434	-0.023 0.635 434
IEE3APS Avoidant/Passive score IEE Y3	-0.044 0.363 434	-0.038 0.431 434	-0.001 0.989 434	1.000 0.000 434	-0.188 0.000 434	-0.127 0.008 434	-0.104 0.030 434	-0.089 0.064 434	-0.325 0.000 434	-0.132 0.006 434
IEE3ADS Affective Display score IEE Y3	-0.073 0.129 434	-0.071 0.139 434	-0.060 0.210 434	-0.188 0.000 434	1.000 0.035 434	-0.101 0.100 434	-0.079 0.100 434	-0.163 0.001 434	-0.025 0.603 434	-0.434 0.000 434
IEE3CWA Communication w/Adults score IEE Y3	-0.042 0.382 434	0.008 0.862 434	-0.045 0.355 434	-0.127 0.008 434	-0.101 0.035 434	1.000 0.397 434	-0.041 0.397 434	-0.109 0.023 434	-0.237 0.000 434	-0.088 0.066 434
IEE3CWP Communication w/Peers score IEE Y3	-0.059 0.222 434	0.026 0.593 434	0.059 0.223 434	-0.104 0.030 434	-0.079 0.100 434	-0.041 0.397 434	1.000 0.397 434	0.022 0.646 434	-0.001 0.983 434	-0.226 0.000 434
IEE3SCS Self-Control score IEE Y3	-0.064 0.181 434	-0.129 0.007 434	-0.081 0.092 434	-0.089 0.064 434	-0.163 0.001 434	-0.109 0.023 434	0.022 0.646 434	1.000 0.434 434	0.034 0.486 434	-0.065 0.173 434
IEE3PSS Prosocial score IEE Y3	-0.232 0.000 434	-0.131 0.006 434	-0.131 0.006 434	-0.325 0.000 434	-0.025 0.603 434	-0.237 0.000 434	-0.001 0.983 434	0.034 0.486 434	1.000 0.434 434	0.025 0.604 434
IEE3DNS Do Nothing score IEE Y3	0.011 0.819 434	-0.140 0.003 434	-0.023 0.635 434	-0.132 0.006 434	-0.434 0.000 434	-0.088 0.066 434	-0.226 0.000 434	-0.065 0.173 434	0.025 0.604 434	1.000 0.434 434
IEE3AGG Aggression Scale IEE Y3	-0.027 0.571 434	0.910 0.000 434	0.471 0.000 434	-0.034 0.483 434	-0.088 0.067 434	-0.011 0.818 434	0.047 0.328 434	-0.148 0.002 434	-0.170 0.000 434	-0.133 0.005 434
IEE3PRS Positive Response Scale IEE Y3	-0.231 0.000 434	-0.174 0.000 434	-0.152 0.002 434	-0.324 0.000 434	-0.097 0.043 434	-0.257 0.000 434	0.009 0.845 434	0.493 0.000 434	0.886 0.000 434	-0.009 0.857 434
IEE3COM Communication Scale IEE Y3	-0.069 0.152 434	0.022 0.653 434	-0.005 0.922 434	-0.166 0.001 434	-0.131 0.006 434	0.826 0.000 434	0.530 0.000 434	-0.080 0.095 434	-0.202 0.000 434	-0.203 0.000 434
IEE3ASC Appropriateness Score IEE Y3	-0.156 0.001 434	0.087 0.072 434	-0.024 0.620 434	0.110 0.022 434	0.128 0.008 434	0.023 0.630 434	0.087 0.070 434	0.100 0.037 434	0.330 0.000 434	0.092 0.056 434
IEE3ASCz Appropriateness Score Standardized Y3	-0.094 0.053 425	0.016 0.737 425	-0.091 0.060 425	0.013 0.787 425	0.046 0.345 425	-0.089 0.066 425	0.063 0.197 425	0.065 0.181 425	0.048 0.325 425	-0.046 0.340 425

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	IEE3NRS	IEE3PAG	IEE3VAG	IEE3APS	IEE3ADS	IEE3CWA	IEE3CWP	IEE3SCS	IEE3PSS	IEE3DNS
IEE3AS2 Appropriateness Score without happiness item IEE Y3	-0.188 0.000 434	0.082 0.090 434	-0.038 0.433 434	0.101 0.036 434	0.124 0.010 434	0.013 0.791 434	0.088 0.067 434	0.104 0.031 434	0.316 0.000 434	0.071 0.137 434
IEE3AS2z Appropriateness Score Standardized without Happiness Item Y3	-0.062 0.204 423	0.011 0.821 423	-0.113 0.020 423	0.016 0.742 423	0.041 0.395 423	-0.093 0.056 423	0.068 0.161 423	0.071 0.146 423	0.049 0.311 423	-0.058 0.233 423

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations							
	IEE3AGG	IEE3PRS	IEE3COM	IEE3ASC	IEE3ASCz	IEE3AS2	IEE3AS2z
IEE3NRS No Response score IEE Y3	-0.027 0.571 434	-0.231 0.000 434	-0.069 0.152 434	-0.156 0.001 434	-0.094 0.053 425	-0.188 0.000 434	-0.062 0.204 423
IEE3PAG Physical Aggression score IEE Y3	0.910 0.000 434	-0.174 0.000 434	0.022 0.653 434	0.087 0.072 434	0.016 0.737 425	0.082 0.090 434	0.011 0.821 423
IEE3VAG Verbal Aggression score IEE Y3	0.471 0.000 434	-0.152 0.002 434	-0.005 0.922 434	-0.024 0.620 434	-0.091 0.060 425	-0.038 0.433 434	-0.113 0.020 423
IEE3APS Avoidant/Passive score IEE Y3	-0.034 0.483 434	-0.324 0.000 434	-0.166 0.001 434	0.110 0.022 434	0.013 0.787 425	0.101 0.036 434	0.016 0.742 423
IEE3ADS Affective Display score IEE Y3	-0.088 0.067 434	-0.097 0.043 434	-0.131 0.006 434	0.128 0.008 434	0.046 0.345 425	0.124 0.010 434	0.041 0.395 423
IEE3CWA Communication w/Adults score IEE Y3	-0.011 0.818 434	-0.257 0.000 434	0.826 0.000 434	0.023 0.630 434	-0.089 0.066 425	0.013 0.791 434	-0.093 0.056 423
IEE3CWP Communication w/Peers score IEE Y3	0.047 0.328 434	0.009 0.845 434	0.530 0.000 434	0.087 0.070 434	0.063 0.197 425	0.088 0.067 434	0.068 0.161 423
IEE3SCS Self-Control score IEE Y3	-0.148 0.002 434	0.493 0.000 434	-0.080 0.095 434	0.100 0.037 434	0.065 0.181 425	0.104 0.031 434	0.071 0.146 423
IEE3PSS Prosocial score IEE Y3	-0.170 0.000 434	0.886 0.000 434	-0.202 0.000 434	0.330 0.000 434	0.048 0.325 425	0.316 0.000 434	0.049 0.311 423
IEE3DNS Do Nothing score IEE Y3	-0.133 0.005 434	-0.009 0.857 434	-0.203 0.000 434	0.092 0.056 434	-0.046 0.340 425	0.071 0.137 434	-0.058 0.233 423
IEE3AGG Aggression Scale IEE Y3	1.000 434	-0.217 0.000 434	0.017 0.721 434	0.067 0.166 434	-0.023 0.630 425	0.057 0.240 434	-0.037 0.448 423
IEE3PRS Positive Response Scale IEE Y3	-0.217 0.000 434	1.000 434	-0.213 0.000 434	0.334 0.000 434	0.073 0.132 425	0.323 0.000 434	0.078 0.111 423
IEE3COM Communication Scale IEE Y3	0.017 0.721 434	-0.213 0.000 434	1.000 434	0.069 0.153 434	-0.040 0.406 425	0.061 0.208 434	-0.040 0.408 423

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations							
	IEE3AGG	IEE3PRS	IEE3COM	IEE3ASC	IEE3ASCz	IEE3AS2	IEE3AS2z
IEE3ASC Appropriateness Score IEE Y3	0.067 0.166 434	0.334 0.000 434	0.069 0.153 434	1.000 434	0.751 0.000 425	0.990 0.000 434	0.792 0.000 423
IEE3ASCz Appropriateness Score Standardized Y3	-0.023 0.630 425	0.073 0.132 425	-0.040 0.406 425	0.751 0.000 425	1.000 425	0.705 0.000 425	0.972 0.000 423
IEE3AS2 Appropriateness Score without happiness item IEE Y3	0.057 0.240 434	0.323 0.000 434	0.061 0.208 434	0.990 0.000 434	0.705 0.000 425	1.000 434	0.772 0.000 423
IEE3AS2z Appropriateness Score Standardized without Happiness Item Y3	-0.037 0.448 423	0.078 0.111 423	-0.040 0.408 423	0.792 0.000 423	0.972 0.000 423	0.772 0.000 423	1.000 423