

Life Changes
Grade 12/Year 13
Fast Track Project Technical Report
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SAS scoring program

Citations

Instrument

Dodge, K.A., Bates, J.E., and Pettit, G.S. (1990). Mechanisms in the cycle of violence. *Science*, 250, 1678-1683.

Reports

Rains, C. (2002). *Life Changes* (Fast Track Project Technical Report). Available from the Fast Track Project website: <http://www.fasttrackproject.org>

Miller-Johnson, S. and Maumary-Gremaud, A. (1995). *Developmental History and Life Changes* (Fast Track Project Technical Report). Durham, NC: Duke University.

Data Sources

Raw: P13C

Scored: LCH13

I. Scale Description

The Life Changes measure, which was originally part of a larger measure called Developmental History, consists of a 15-minute interview that is completed with the parent as part of the summer interview. The Developmental History, developed and used by Dodge and colleagues (1990), is part of a longitudinal study of family origins of children's behavior problems. The measure assesses a number of constructs: perceptions of the parent-child relationship, developmental history, life changes, child care history, discipline strategies, expected success of child in life, school, and service utilization.

There are five versions of the Developmental History measure, based on the time point of administration. Version 1 is administered during year 1 and includes all of the constructs listed above. In addition, the life changes items are asked both for the pre-kindergarten and kindergarten years. Version 2 is administered during year 2 and includes: perceptions of the parent-child relationship, life changes (only for the previous year), discipline strategies, expected success of child in life and school, and service utilization items. In year 3, the Life Changes measure includes only four areas: life changes for the previous year, perceptions of the parent-child relationship, discipline strategies, service utilization items, and perceptions of the parent-child relationship. The fourth version is given during year 4 and includes the same areas as in year 3; however, the choices for discipline strategies changed. Finally, in year 5 and thereafter, respondents are asked only questions about life changes for the previous year, about the parent-child relationship, and about service utilization.

The Life Changes measure for year 13 first assesses whether any events, major or minor, have occurred during the past year for the child; examples of these events include whether there was a parent's divorce or death, a move to a new location, or financial problems. These questions are rated on a scale of 0 (did not occur), 1 (minor), and 2 (major). The parent is then asked open-ended questions about his/her relationship with the child; these answers are then scored, as are the interviewer's impressions of the parent for these questions, on a scale of 1 to 5, with 1 representing a very negative response and 5 representing a very positive response. Lastly, the parent answers questions about the family's use of treatment services during the past year.

II. Report Sample

These analyses were conducted with the first cohort on the control sample (n=155) and on the normative sample (n=387, 463 with overlap) during the thirteenth year of the study. Overall, 130 records were missing the whole measure. Fifty-eight were missing from the control sample (8 from Durham, 20 from Nashville, 12 from Pennsylvania, and 18 from Washington) and 113 were missing from the normative sample (16 from Durham, 43 from Nashville, 22 from Pennsylvania, and 32 from Washington).

In addition, it should be noted that 260 records skipped 3 or more items; of these, 66 were from the control sample (22 from Durham, 11 from Nashville, 19 from Pennsylvania, and 14 from Washington) and 218 were from the normative sample (65 from Durham, 39 from Nashville, 64 from Pennsylvania, and 50 from Washington); a number of these were from the overlap sample.

Four items in particular had a higher number of skips: how the child reacted to the changes during the previous year (71 responses), what type of treatment facility the child had used for emotional or behavioral difficulties in the past year (300 responses), what type of treatment facility the respondent had used in the past year (295 responses), and which other member of the family had received treatment (302 responses).

III. Scaling

During year 13 of this study, the parents were given the shorter version of this measure, which covered life changes, the parent's relationship with the child, and service utilization items. These items were then used to create three subscales, which are described as follows.

Two subscales measure the perceptions of the parent-child relationship: *Quality of Parent-Child Relationship - Parent Rating* (items PxC18, PxC219R, PxC20, PxC21) and *Quality of Parent-Child Relationship - Observer Rating* (items P2x22, PxC23, PxC24, PxC25). The mean value is calculated for each of these subscales.

The third subscale, called the *Stress Scale Sum Score* is summed across the scale to represent the cumulative total of life changes experienced by the family.

Cronbach's alphas were calculated for each subscale and are shown in the table below:

Cronbach's Alpha for Scales		
Variable	Normative	High Risk Control
Y13 LC Quality Parent-Child Relat_Observ (LCH13qob)	0.89	0.92
Y13 LC Quality Parent-Child Relat_Parent (LCH13qpr)	0.81	0.82
Y13 LC Stress Scale sum score (LCH13str)	0.57	0.65

Both the *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version* showed adequate reliability for internal consistency for the normative and control samples. The *Stress Scale Sum Score* showed a lower reliability for both samples, as expected for a checklist.

IV. Differences Between Groups

A series of t-tests indicated significant differences between the normative and control samples for two or the three subscales. *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version* showed the mean for the normative sample to be greater than the mean for the control sample. The difference on *Stress Scale* was not statistically significant.

Only 3 of the 8 items not included in the scales showed significant differences between the normative and control samples: whether the child had received treatment for emotional or behavioral difficulties (P13C74), whether the child received medication to control behavior/attention (P13C76), and which other household member received treatment (P13C80). The control mean was higher than the normative mean for the first two items and lower for the last.

Comparison of Means for Normative and Control for Scales							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
Y13 LC Quality Parent-Child Relat_ Observer (LCH13qob)	3.90	0.70	3.53	0.85	152	-3.77	0.0002
Y13 LC Quality Parent-Child Relat_Parent (LCH13qpr)	4.03	0.73	3.71	0.82	330	-3.57	0.0004
Y13 LC Stress Scale sum score (LCH13str)	3.04	2.97	3.80	3.61	148	1.82	0.0711

Comparison of Means for Normative and Control for Items							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
2. TC reaction to changes (P13C17)	2.78	1.14	2.74	1.29	257	-0.25	0.8014
13. TC treated emot/beh difficulties (P13C74)	0.07	0.25	0.18	0.39	126	2.62	0.0099
13a. facility where TC treated (P13C75)	1.88	0.34	2.00	0.50	31	0.83	0.4111
14. medication to control beh/attent (P13C76)	0.01	0.09	0.09	0.29	101	2.80	0.0061
15. respondent received treatment (P13C77)	0.09	0.29	0.17	0.38	142	1.75	0.0825
15a. facility where resp treated (P13C78)	2.05	0.72	2.13	0.81	36	0.32	0.7514
16. others receive treatment (P13C79)	0.08	0.27	0.13	0.34	145	1.19	0.2349
16a. which member was treated (P13C80)	1.63	0.50	1.25	0.45	29	-2.16	0.0394

V. Recommendations for Use

Analysts should note that the distributions for the *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version* were fairly normal for both the normative and control samples. The *Stress Scale Sum Score* was positively skewed for both samples.

Analysts should also note that several items were excluded from the analysis because they were open-ended response questions. Item P13C11a asked the respondent to specify which person had been involved with drug use, alcohol use, or addiction during the past year. Item P13C16a asked the

respondent to specify any life changes not previously mentioned in the list. Item P13C75a asked the respondent to specify the type of facility the child had received treatment at if it was not either inpatient/residential center/day hospital or outpatient therapist/mental health center. Item P13C78a asked the respondent to specify the type of facility the respondent had received treatment at if it was not one of the following: inpatient/residential center/day hospital, outpatient therapist/mental health center, or alcohol and drug rehabilitation center. Items P13C17A-P13C17D were the respondent's answers to a series of four questions about the child. These questions were: what is the child like (P13C17A), how well do the respondent and the child get along (P13C17B), what is the best thing about the child (P13C17C), and what is the most troubling thing about the child/concerns about the child (P13C17D).

VI. Item and Scale Means and SDs

Descriptive Statistics for Scales and Items - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH13qob	Y13 LC Quality Parent-Child Relat_Observer	97	3.53	0.85	1.75	5.00
LCH13qpr	Y13 LC Quality Parent-Child Relat_Parent	96	3.71	0.82	1.50	5.00
LCH13str	Y13 LC Stress Scale sum score	95	3.80	3.61	0.00	16.00
P13C1	1. changes: moved/major remodeling	95	0.37	0.67	0.00	2.00
P13C2	1. changes: medical problems w/TC	95	0.22	0.59	0.00	2.00
P13C3	1. changes: medical problems w/family	95	0.59	0.87	0.00	2.00
P13C4	1. changes: death of important person	95	0.39	0.75	0.00	2.00
P13C5	1. changes: divorce of TCs parents	93	0.02	0.15	0.00	1.00
P13C6	1. changes: separation of TCs parents	92	0.02	0.15	0.00	1.00
P13C7	1. changes: remarriage/reconciliation	90	0.02	0.21	0.00	2.00
P13C8	1. changes: parent/child separation	95	0.18	0.50	0.00	2.00
P13C9	1. changes: financial problems	95	0.42	0.71	0.00	2.00
P13C10	1. changes: legal problems	95	0.23	0.63	0.00	2.00
P13C11	1. changes: drug/alcohol use	95	0.22	0.60	0.00	2.00
P13C12	1. changes: stress/conflicts	95	0.17	0.48	0.00	2.00
P13C13	1. changes: pregnancies, miscarriages	95	0.24	0.60	0.00	2.00
P13C14	1. changes: job-related stress	94	0.31	0.55	0.00	2.00
P13C15	1. changes: loss of job	94	0.24	0.58	0.00	2.00
P13C16	1. changes: other	95	0.11	0.45	0.00	2.00
P13C17	2. TC reaction to changes	81	2.74	1.29	1.00	7.00
P13C18	p-rating 1. satisfaction w/parent role	96	4.03	0.89	1.00	5.00
P13C19	p-rating 2. child difficulty	96	2.86	1.05	1.00	5.00
P13C20	p-rating 3. parent-child relation	96	4.00	0.96	2.00	5.00
P13C21	p-rating 4. satisfaction child behav	96	3.67	1.14	1.00	5.00
P13C22	i-rating 1. parent description of TC	97	3.81	0.97	1.00	5.00
P13C23	i-rating 2. parent insight about TC	97	3.39	0.98	1.00	5.00
P13C24	i-rating 3. parent affect	97	3.57	0.86	2.00	5.00
P13C25	i-rating 4. parent-child relationship	97	3.36	0.95	2.00	5.00
P13C74	13. TC treated emot/beh difficulties	94	0.18	0.39	0.00	1.00
P13C75	13a. facility where TC treated	17	2.00	0.50	1.00	3.00
P13C76	14. medication to control beh/attent	95	0.09	0.29	0.00	1.00
P13C77	15. respondent received treatment	95	0.17	0.38	0.00	1.00
P13C78	15a. facility where resp treated	16	2.13	0.81	1.00	4.00
P13C79	16. others receive treatment	94	0.13	0.34	0.00	1.00
P13C80	16a. which member was treated	12	1.25	0.45	1.00	2.00

Descriptive Statistics for Scales and Items - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH13qob	Y13 LC Quality Parent-Child Relat_Observer	274	3.86	0.72	1.75	5.00
LCH13qpr	Y13 LC Quality Parent-Child Relat_Parent	274	4.02	0.74	1.50	5.00
LCH13str	Y13 LC Stress Scale sum score	274	3.21	3.12	0.00	16.00
P13C1	1. changes: moved/major remodeling	272	0.34	0.68	0.00	2.00
P13C2	1. changes: medical problems w/TC	274	0.18	0.50	0.00	2.00
P13C3	1. changes: medical problems w/family	274	0.51	0.80	0.00	2.00
P13C4	1. changes: death of important person	274	0.39	0.75	0.00	2.00
P13C5	1. changes: divorce of TCs parents	269	0.01	0.11	0.00	1.00
P13C6	1. changes: separation of TCs parents	269	0.03	0.22	0.00	2.00
P13C7	1. changes: remarriage/reconciliation	255	0.02	0.12	0.00	1.00
P13C8	1. changes: parent/child separation	274	0.14	0.45	0.00	2.00
P13C9	1. changes: financial problems	274	0.36	0.66	0.00	2.00
P13C10	1. changes: legal problems	274	0.12	0.43	0.00	2.00
P13C11	1. changes: drug/alcohol use	274	0.12	0.48	0.00	2.00
P13C12	1. changes: stress/conflicts	274	0.15	0.44	0.00	2.00
P13C13	1. changes: pregnancies, miscarriages	274	0.25	0.60	0.00	2.00
P13C14	1. changes: job-related stress	270	0.28	0.56	0.00	2.00
P13C15	1. changes: loss of job	269	0.18	0.53	0.00	2.00
P13C16	1. changes: other	273	0.09	0.38	0.00	2.00
P13C17	2. TC reaction to changes	212	2.82	1.18	1.00	5.00
P13C18	p-rating 1. satisfaction w/parent role	274	4.37	0.89	1.00	5.00
P13C19	p-rating 2. child difficulty	274	2.70	0.95	1.00	5.00
P13C20	p-rating 3. parent-child relation	274	4.38	0.81	1.00	5.00
P13C21	p-rating 4. satisfaction child behav	274	4.02	1.04	1.00	5.00
P13C22	i-rating 1. parent description of TC	274	4.11	0.83	2.00	5.00
P13C23	i-rating 2. parent insight about TC	274	3.69	0.88	1.00	5.00
P13C24	i-rating 3. parent affect	274	3.92	0.74	1.00	5.00
P13C25	i-rating 4. parent-child relationship	274	3.71	0.85	1.00	5.00
P13C74	13. TC treated emot/beh difficulties	274	0.09	0.28	0.00	1.00
P13C75	13a. facility where TC treated	24	2.00	0.42	1.00	3.00
P13C76	14. medication to control beh/attent	274	0.02	0.15	0.00	1.00
P13C77	15. respondent received treatment	274	0.11	0.31	0.00	1.00
P13C78	15a. facility where resp treated	30	2.10	0.71	1.00	4.00
P13C79	16. others receive treatment	272	0.10	0.30	0.00	1.00
P13C80	16a. which member was treated	28	1.54	0.51	1.00	2.00

VII. Item and Scale Correlations

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations			
	LCH13qob	LCH13qpr	LCH13str
LCH13qob Y13 LC Quality Parent-Child Relat_Observer	1.000 0.000 333	0.720 0.000 332	-0.238 0.000 331
LCH13qpr Y13 LC Quality Parent-Child Relat_Parent	0.720 0.000 332	1.000 0.000 332	-0.286 0.000 331
LCH13str Y13 LC Stress Scale sum score	-0.238 0.000 331	-0.286 0.000 331	1.000 0.000 331

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations												
	P13C1	P13C2	P13C3	P13C4	P13C5	P13C6	P13C7	P13C8	P13C9	P13C10	P13C11	P13C12
P13C1 1. changes: moved/major remodeling	1.000 0.050 329	0.108 0.050 329	0.093 0.091 329	0.058 0.297 329	0.070 0.210 324	0.119 0.033 323	-0.003 0.957 308	0.139 0.012 329	0.047 0.394 329	0.116 0.035 329	0.092 0.095 329	0.096 0.082 329
P13C2 1. changes: medical problems w/TC	0.108 0.050 329	1.000 0.006 331	0.150 0.006 331	0.016 0.774 331	0.019 0.739 326	-0.026 0.646 325	0.078 0.168 310	0.132 0.017 331	0.127 0.021 331	0.051 0.357 331	0.122 0.027 331	0.103 0.061 331
P13C3 1. changes: medical problems w/family	0.093 0.091 329	0.150 0.006 331	1.000 0.000 331	0.247 0.000 331	0.071 0.201 326	0.028 0.611 325	-0.027 0.641 310	0.196 0.000 331	0.229 0.000 331	0.054 0.325 331	0.067 0.226 331	0.176 0.001 331
P13C4 1. changes: death of important person	0.058 0.297 329	0.016 0.774 331	0.247 0.000 331	1.000 0.000 331	0.055 0.321 326	0.015 0.787 325	-0.010 0.857 310	0.165 0.003 331	0.155 0.005 331	0.082 0.134 331	0.037 0.502 331	0.142 0.009 331
P13C5 1. changes: divorce of TCs parents	0.070 0.210 324	0.019 0.739 326	0.071 0.201 326	0.055 0.321 326	1.000 0.000 326	0.245 0.000 325	-0.014 0.807 309	-0.033 0.548 326	0.022 0.698 326	-0.033 0.551 326	-0.031 0.580 326	0.023 0.674 326
P13C6 1. changes: separation of TCs parents	0.119 0.033 323	-0.026 0.646 325	0.028 0.611 325	0.015 0.787 325	0.245 0.000 325	1.000 0.000 325	-0.020 0.727 309	-0.048 0.389 325	0.042 0.456 325	-0.015 0.784 325	0.074 0.181 325	-0.024 0.672 325
P13C7 1. changes: remarriage/reconciliation	-0.003 0.957 308	0.078 0.168 310	-0.027 0.641 310	-0.010 0.857 310	-0.014 0.807 309	-0.020 0.727 309	1.000 0.512 310	-0.037 0.512 310	-0.069 0.226 310	-0.036 0.533 310	-0.035 0.537 310	-0.001 0.984 310
P13C8 1. changes: parent/child separation	0.139 0.012 329	0.132 0.017 331	0.196 0.000 331	0.165 0.003 331	-0.033 0.548 326	-0.048 0.389 325	-0.037 0.512 310	1.000 0.001 331	0.182 0.001 331	0.358 0.000 331	0.154 0.005 331	0.197 0.000 331
P13C9 1. changes: financial problems	0.047 0.394 329	0.127 0.021 331	0.229 0.000 331	0.155 0.005 331	0.022 0.698 326	0.042 0.456 325	-0.069 0.226 310	0.182 0.001 331	1.000 0.000 331	0.225 0.000 331	0.060 0.277 331	0.079 0.152 331
P13C10 1. changes: legal problems	0.116 0.035 329	0.051 0.357 331	0.054 0.325 331	0.082 0.134 331	-0.033 0.551 326	-0.015 0.784 325	-0.036 0.533 310	0.358 0.000 331	0.225 0.000 331	1.000 0.000 331	0.227 0.000 331	0.136 0.013 331
P13C11 1. changes: drug/alcohol use	0.092 0.095 329	0.122 0.027 331	0.067 0.226 331	0.037 0.502 331	-0.031 0.580 326	0.074 0.181 325	-0.035 0.537 310	0.154 0.005 331	0.060 0.277 331	0.227 0.000 331	1.000 0.000 331	0.142 0.010 331
P13C12 1. changes: stress/conflicts	0.096 0.082 329	0.103 0.061 331	0.176 0.001 331	0.142 0.009 331	0.023 0.674 326	-0.024 0.672 325	-0.001 0.984 310	0.197 0.000 331	0.079 0.152 331	0.136 0.013 331	0.142 0.010 331	1.000 0.000 331

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations												
	P13C1	P13C2	P13C3	P13C4	P13C5	P13C6	P13C7	P13C8	P13C9	P13C10	P13C11	P13C12
P13C13 1. changes: pregnancies, miscarriages	0.073 0.189 329	0.062 0.263 331	0.062 0.263 331	0.080 0.145 331	0.142 0.010 326	0.034 0.545 325	0.090 0.116 310	-0.024 0.667 331	0.067 0.224 331	0.173 0.002 331	0.133 0.015 331	0.047 0.391 331
P13C14 1. changes: job-related stress	0.002 0.969 325	0.103 0.062 327	0.012 0.832 327	0.050 0.367 327	-0.005 0.926 323	-0.027 0.624 322	0.014 0.807 307	0.191 0.001 327	0.230 0.000 327	0.185 0.001 327	0.132 0.017 327	0.025 0.653 327
P13C15 1. changes: loss of job	0.109 0.049 325	0.162 0.003 326	0.074 0.181 326	0.011 0.840 326	0.222 0.000 322	0.051 0.361 321	-0.045 0.430 306	0.184 0.001 326	0.241 0.000 326	0.083 0.134 326	0.034 0.545 326	0.063 0.254 326
P13C16 1. changes: other	0.183 0.001 328	0.080 0.149 330	0.056 0.314 330	0.043 0.437 330	-0.026 0.646 325	-0.037 0.511 324	-0.028 0.625 309	0.105 0.057 330	-0.012 0.831 330	0.085 0.124 330	0.097 0.079 330	0.150 0.006 330
P13C17 2. TC reaction to changes	0.040 0.524 256	-0.048 0.445 258	-0.191 0.002 258	-0.236 0.000 258	-0.056 0.376 254	-0.006 0.929 253	0.070 0.274 246	-0.032 0.612 258	-0.130 0.037 258	-0.124 0.046 258	-0.154 0.013 258	-0.151 0.015 258
P13C18 p-rating 1. satisfaction w/parent role	-0.101 0.069 329	-0.051 0.352 331	-0.116 0.035 331	-0.091 0.098 331	-0.036 0.520 326	-0.020 0.720 325	-0.058 0.310 310	-0.132 0.016 331	-0.099 0.073 331	-0.171 0.002 331	-0.189 0.001 331	-0.046 0.409 331
P13C19 p-rating 2. child difficulty	0.176 0.001 329	0.070 0.205 331	0.057 0.298 331	-0.041 0.453 331	0.003 0.952 326	0.061 0.269 325	0.115 0.043 310	0.034 0.534 331	0.119 0.031 331	0.125 0.023 331	0.218 0.000 331	0.013 0.812 331
P13C20 p-rating 3. parent-child relation	-0.109 0.049 329	-0.064 0.245 331	-0.163 0.003 331	-0.091 0.099 331	0.025 0.651 326	-0.026 0.643 325	-0.089 0.118 310	0.012 0.831 331	-0.088 0.112 331	-0.056 0.308 331	-0.132 0.016 331	-0.059 0.287 331
P13C21 p-rating 4. satisfaction child behav	-0.110 0.047 329	-0.134 0.015 331	-0.088 0.110 331	-0.031 0.573 331	-0.018 0.742 326	-0.071 0.200 325	-0.082 0.151 310	-0.126 0.022 331	-0.200 0.000 331	-0.152 0.006 331	-0.346 0.000 331	-0.069 0.210 331
P13C22 i-rating 1. parent description of TC	-0.132 0.016 329	-0.097 0.079 331	-0.127 0.021 331	-0.025 0.644 331	-0.039 0.485 326	-0.061 0.271 325	-0.120 0.035 310	-0.055 0.317 331	-0.120 0.030 331	-0.112 0.042 331	-0.321 0.000 331	-0.119 0.031 331
P13C23 i-rating 2. parent insight about TC	-0.131 0.017 329	-0.005 0.933 331	-0.015 0.789 331	-0.004 0.944 331	-0.114 0.039 326	-0.021 0.708 325	-0.110 0.053 310	-0.051 0.353 331	-0.087 0.113 331	-0.072 0.194 331	-0.199 0.000 331	-0.026 0.641 331
P13C24 i-rating 3. parent affect	-0.147 0.008 329	-0.083 0.130 331	-0.102 0.065 331	0.001 0.979 331	-0.016 0.770 326	-0.048 0.385 325	-0.132 0.021 310	0.006 0.917 331	-0.092 0.093 331	-0.144 0.009 331	-0.302 0.000 331	-0.097 0.077 331
P13C25 i-rating 4. parent-child relationship	-0.122 0.027 329	-0.098 0.075 331	-0.077 0.161 331	0.011 0.846 331	-0.019 0.731 326	-0.037 0.509 325	-0.178 0.002 310	-0.019 0.737 331	-0.072 0.191 331	-0.113 0.040 331	-0.253 0.000 331	-0.083 0.132 331
P13C74 13. TC treated emot/beh difficulties	0.069 0.210 328	0.126 0.022 330	0.117 0.034 330	0.129 0.019 330	0.059 0.291 325	0.099 0.074 324	-0.040 0.485 309	0.185 0.001 330	0.112 0.041 330	0.137 0.013 330	0.211 0.000 330	0.126 0.022 330
P13C75 13a. facility where TC treated	0.480 0.005 33	-0.420 0.015 33	-0.036 0.842 33	0.027 0.880 33	0.027 0.885 31	0.050 0.792 30	.	0.082 0.652 33	-0.158 0.381 33	-0.351 0.045 33	-0.446 0.009 33	-0.140 0.436 33
P13C76 14. medication to control beh/attend	0.106 0.056 329	0.172 0.002 331	0.136 0.014 331	0.064 0.244 331	-0.021 0.708 326	0.050 0.366 325	-0.023 0.683 310	0.275 0.000 331	0.172 0.002 331	0.267 0.000 331	0.152 0.006 331	0.157 0.004 331
P13C77 15. respondent received treatment	0.070 0.208 329	0.159 0.004 331	0.199 0.000 331	0.097 0.079 331	0.050 0.372 326	-0.055 0.319 325	0.022 0.698 310	0.139 0.011 331	0.080 0.149 331	0.075 0.175 331	0.090 0.102 331	0.165 0.003 331
P13C78 15a. facility where resp treated	-0.236 0.154 38	0.141 0.397 38	-0.183 0.273 38	-0.111 0.507 38	-0.025 0.883 36	.	-0.035 0.845 34	-0.215 0.195 38	-0.217 0.191 38	-0.105 0.532 38	-0.147 0.379 38	0.048 0.775 38

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations												
	P13C1	P13C2	P13C3	P13C4	P13C5	P13C6	P13C7	P13C8	P13C9	P13C10	P13C11	P13C12
P13C79 16. others receive treatment	0.063 0.255 326	0.094 0.088 328	0.081 0.145 328	-0.011 0.836 328	-0.036 0.522 324	-0.048 0.390 324	-0.039 0.493 309	0.060 0.278 328	0.006 0.916 328	0.042 0.454 328	0.118 0.032 328	-0.000 0.997 328
P13C80 16a. which member was treated	-0.222 0.239 30	-0.078 0.675 31	0.255 0.167 31	-0.028 0.881 31	.	.	.	-0.045 0.809 31	-0.074 0.693 31	0.012 0.950 31	-0.078 0.675 31	0.073 0.697 31

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P13C13	P13C14	P13C15	P13C16	P13C17	P13C18	P13C19	P13C20	P13C21	P13C22
P13C1 1. changes: moved/major remodeling	0.073 0.189 329	0.002 0.969 325	0.109 0.049 325	0.183 0.001 328	0.040 0.524 256	-0.101 0.069 329	0.176 0.001 329	-0.109 0.049 329	-0.110 0.047 329	-0.132 0.016 329
P13C2 1. changes: medical problems w/TC	0.062 0.263 331	0.103 0.062 327	0.162 0.003 326	0.080 0.149 330	-0.048 0.445 258	-0.051 0.352 331	0.070 0.205 331	-0.064 0.245 331	-0.134 0.015 331	-0.097 0.079 331
P13C3 1. changes: medical problems w/family	0.062 0.263 331	0.012 0.832 327	0.074 0.181 326	0.056 0.314 330	-0.191 0.002 258	-0.116 0.035 331	0.057 0.298 331	-0.163 0.003 331	-0.088 0.110 331	-0.127 0.021 331
P13C4 1. changes: death of important person	0.080 0.145 331	0.050 0.367 327	0.011 0.840 326	0.043 0.437 330	-0.236 0.000 258	-0.091 0.098 331	-0.041 0.453 331	-0.091 0.099 331	-0.031 0.573 331	-0.025 0.644 331
P13C5 1. changes: divorce of TCs parents	0.142 0.010 326	-0.005 0.926 323	0.222 0.000 322	-0.026 0.646 325	-0.056 0.376 254	-0.036 0.520 326	0.003 0.952 326	0.025 0.651 326	-0.018 0.742 326	-0.039 0.485 326
P13C6 1. changes: separation of TCs parents	0.034 0.545 325	-0.027 0.624 322	0.051 0.361 321	-0.037 0.511 324	-0.006 0.929 253	-0.020 0.720 325	0.061 0.269 325	-0.026 0.643 325	-0.071 0.200 325	-0.061 0.271 325
P13C7 1. changes: remarriage/reconciliation	0.090 0.116 310	0.014 0.807 307	-0.045 0.430 306	-0.028 0.625 309	0.070 0.274 246	-0.058 0.310 310	0.115 0.043 310	-0.089 0.118 310	-0.082 0.151 310	-0.120 0.035 310
P13C8 1. changes: parent/child separation	-0.024 0.667 331	0.191 0.001 327	0.184 0.001 326	0.105 0.057 330	-0.032 0.612 258	-0.132 0.016 331	0.034 0.534 331	0.012 0.831 331	-0.126 0.022 331	-0.055 0.317 331
P13C9 1. changes: financial problems	0.067 0.224 331	0.230 0.000 327	0.241 0.000 326	-0.012 0.831 330	-0.130 0.037 258	-0.099 0.073 331	0.119 0.031 331	-0.088 0.112 331	-0.200 0.000 331	-0.120 0.030 331
P13C10 1. changes: legal problems	0.173 0.002 331	0.185 0.001 327	0.083 0.134 326	0.085 0.124 330	-0.124 0.046 258	-0.171 0.002 331	0.125 0.023 331	-0.056 0.308 331	-0.152 0.006 331	-0.112 0.042 331
P13C11 1. changes: drug/alcohol use	0.133 0.015 331	0.132 0.017 327	0.034 0.545 326	0.097 0.079 330	-0.154 0.013 258	-0.189 0.001 331	0.218 0.000 331	-0.132 0.016 331	-0.346 0.000 331	-0.321 0.000 331
P13C12 1. changes: stress/conflicts	0.047 0.391 331	0.025 0.653 327	0.063 0.254 326	0.150 0.006 330	-0.151 0.015 258	-0.046 0.409 331	0.013 0.812 331	-0.059 0.287 331	-0.069 0.210 331	-0.119 0.031 331
P13C13 1. changes: pregnancies, miscarriages	1.000 331	-0.069 0.210 327	0.032 0.570 326	-0.042 0.452 330	-0.109 0.081 258	0.034 0.535 331	0.131 0.017 331	-0.111 0.043 331	-0.181 0.001 331	-0.182 0.001 331
P13C14 1. changes: job-related stress	-0.069 0.210 327	1.000 327	0.243 0.000 326	-0.016 0.774 326	-0.074 0.238 255	0.029 0.600 327	0.027 0.628 327	0.112 0.042 327	-0.016 0.769 327	0.086 0.123 327

Pearson Correlation Coefficients										
Prob > r under H0: Rho=0										
Number of Observations										
	P13C13	P13C14	P13C15	P13C16	P13C17	P13C18	P13C19	P13C20	P13C21	P13C22
P13C15 1. changes: loss of job	0.032 0.570 326	0.243 0.000 326	1.000 326	0.026 0.636 325	-0.066 0.292 254	-0.019 0.732 326	0.093 0.092 326	0.012 0.835 326	-0.141 0.011 326	-0.082 0.140 326
P13C16 1. changes: other	-0.042 0.452 330	-0.016 0.774 326	0.026 0.636 325	1.000 330	-0.167 0.007 257	-0.146 0.008 330	0.095 0.083 330	-0.185 0.001 330	-0.103 0.061 330	-0.151 0.006 330
P13C17 2. TC reaction to changes	-0.109 0.081 258	-0.074 0.238 255	-0.066 0.292 254	-0.167 0.007 257	1.000 259	0.197 0.001 258	-0.178 0.004 258	0.226 0.000 258	0.164 0.008 258	0.129 0.037 259
P13C18 p-rating 1. satisfaction w/parent role	0.034 0.535 331	0.029 0.600 327	-0.019 0.732 326	-0.146 0.008 330	0.197 0.001 258	1.000 332	-0.433 0.000 332	0.513 0.000 332	0.456 0.000 332	0.478 0.000 332
P13C19 p-rating 2. child difficulty	0.131 0.017 331	0.027 0.628 327	0.093 0.092 326	0.095 0.083 330	-0.178 0.004 258	-0.433 0.000 332	1.000 332	-0.577 0.000 332	-0.573 0.000 332	-0.559 0.000 332
P13C20 p-rating 3. parent-child relation	-0.111 0.043 331	0.112 0.042 327	0.012 0.835 326	-0.185 0.001 330	0.226 0.000 258	0.513 0.000 332	-0.577 0.000 332	1.000 332	0.593 0.000 332	0.650 0.000 332
P13C21 p-rating 4. satisfaction child behav	-0.181 0.001 331	-0.016 0.769 327	-0.141 0.011 326	-0.103 0.061 330	0.164 0.008 258	0.456 0.000 332	-0.573 0.000 332	0.593 0.000 332	1.000 332	0.699 0.000 332
P13C22 i-rating 1. parent description of TC	-0.182 0.001 331	0.086 0.123 327	-0.082 0.140 326	-0.151 0.006 330	0.129 0.037 259	0.478 0.000 332	-0.559 0.000 332	0.650 0.000 332	0.699 0.000 332	1.000 333
P13C23 i-rating 2. parent insight about TC	-0.249 0.000 331	0.121 0.028 327	-0.058 0.297 326	-0.043 0.435 330	0.037 0.550 259	0.340 0.000 332	-0.401 0.000 332	0.421 0.000 332	0.426 0.000 332	0.624 0.000 333
P13C24 i-rating 3. parent affect	-0.176 0.001 331	0.064 0.246 327	-0.007 0.896 326	-0.123 0.025 330	0.058 0.355 259	0.435 0.000 332	-0.493 0.000 332	0.599 0.000 332	0.595 0.000 332	0.744 0.000 333
P13C25 i-rating 4. parent-child relationship	-0.165 0.003 331	0.074 0.184 327	-0.034 0.540 326	-0.106 0.055 330	0.075 0.231 259	0.441 0.000 332	-0.502 0.000 332	0.582 0.000 332	0.558 0.000 332	0.762 0.000 333
P13C74 13. TC treated emot/beh difficulties	0.017 0.756 330	0.110 0.047 326	0.109 0.050 325	0.083 0.132 329	-0.125 0.045 258	-0.185 0.001 330	0.131 0.017 330	-0.066 0.230 330	-0.212 0.000 330	-0.168 0.002 330
P13C75 13a. facility where TC treated	-0.157 0.382 33	-0.007 0.968 32	-0.222 0.222 32	0.050 0.781 33	0.414 0.026 29	0.047 0.795 33	-0.245 0.169 33	0.084 0.643 33	0.283 0.111 33	0.318 0.071 33
P13C76 14. medication to control beh/attent	0.038 0.486 331	0.058 0.297 327	0.089 0.108 326	-0.043 0.431 330	0.012 0.847 258	-0.096 0.081 331	0.136 0.013 331	-0.004 0.936 331	-0.159 0.004 331	-0.107 0.053 331
P13C77 15. respondent received treatment	0.094 0.089 331	0.125 0.024 327	0.010 0.864 326	0.194 0.000 330	-0.107 0.087 258	-0.072 0.190 331	0.058 0.292 331	-0.090 0.100 331	-0.073 0.186 331	-0.053 0.333 331
P13C78 15a. facility where resp treated	0.087 0.604 38	0.032 0.847 38	-0.290 0.078 38	-0.045 0.788 38	0.016 0.925 36	0.209 0.208 38	-0.367 0.024 38	0.374 0.021 38	0.276 0.094 38	0.214 0.196 38
P13C79 16. others receive treatment	-0.007 0.905 328	0.115 0.038 324	0.025 0.654 323	0.062 0.261 327	-0.002 0.969 255	-0.001 0.988 328	0.004 0.937 328	0.033 0.555 328	0.029 0.603 328	0.050 0.367 328
P13C80 16a. which member was treated	-0.041 0.826 31	0.309 0.103 29	0.076 0.697 29	-0.178 0.337 31	-0.133 0.509 27	0.516 0.003 31	-0.470 0.008 31	0.312 0.088 31	0.274 0.135 31	0.289 0.115 31

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P13C23	P13C24	P13C25	P13C74	P13C75	P13C76	P13C77	P13C78	P13C79	P13C80
P13C1 1. changes: moved/major remodeling	-0.131 0.017 329	-0.147 0.008 329	-0.122 0.027 329	0.069 0.210 328	0.480 0.005 33	0.106 0.056 329	0.070 0.208 329	-0.236 0.154 38	0.063 0.255 326	-0.222 0.239 30
P13C2 1. changes: medical problems w/TC	-0.005 0.933 331	-0.083 0.130 331	-0.098 0.075 331	0.126 0.022 330	-0.420 0.015 33	0.172 0.002 331	0.159 0.004 331	0.141 0.397 38	0.094 0.088 328	-0.078 0.675 31
P13C3 1. changes: medical problems w/family	-0.015 0.789 331	-0.102 0.065 331	-0.077 0.161 331	0.117 0.034 330	-0.036 0.842 33	0.136 0.014 331	0.199 0.000 331	-0.183 0.273 38	0.081 0.145 328	0.255 0.167 31
P13C4 1. changes: death of important person	-0.004 0.944 331	0.001 0.979 331	0.011 0.846 331	0.129 0.019 330	0.027 0.880 33	0.064 0.244 331	0.097 0.079 331	-0.111 0.507 38	-0.011 0.836 328	-0.028 0.881 31
P13C5 1. changes: divorce of TCs parents	-0.114 0.039 326	-0.016 0.770 326	-0.019 0.731 326	0.059 0.291 325	0.027 0.885 31	-0.021 0.708 326	0.050 0.372 326	-0.025 0.883 36	-0.036 0.522 324	. . 30
P13C6 1. changes: separation of TCs parents	-0.021 0.708 325	-0.048 0.385 325	-0.037 0.509 325	0.099 0.074 324	0.050 0.792 30	0.050 0.366 325	-0.055 0.319 325	. . 35	-0.048 0.390 324	. . 30
P13C7 1. changes: remarriage/reconciliation	-0.110 0.053 310	-0.132 0.021 310	-0.178 0.002 310	-0.040 0.485 309	. . 30	-0.023 0.683 310	0.022 0.698 310	-0.035 0.845 34	-0.039 0.493 309	. . 29
P13C8 1. changes: parent/child separation	-0.051 0.353 331	0.006 0.917 331	-0.019 0.737 331	0.185 0.001 330	0.082 0.652 33	0.275 0.000 331	0.139 0.011 331	-0.215 0.195 38	0.060 0.278 328	-0.045 0.809 31
P13C9 1. changes: financial problems	-0.087 0.113 331	-0.092 0.093 331	-0.072 0.191 331	0.112 0.041 330	-0.158 0.381 33	0.172 0.002 331	0.080 0.149 331	-0.217 0.191 38	0.006 0.916 328	-0.074 0.693 31
P13C10 1. changes: legal problems	-0.072 0.194 331	-0.144 0.009 331	-0.113 0.040 331	0.137 0.013 330	-0.351 0.045 33	0.267 0.000 331	0.075 0.175 331	-0.105 0.532 38	0.042 0.454 328	0.012 0.950 31
P13C11 1. changes: drug/alcohol use	-0.199 0.000 331	-0.302 0.000 331	-0.253 0.000 331	0.211 0.000 330	-0.446 0.009 33	0.152 0.006 331	0.090 0.102 331	-0.147 0.379 38	0.118 0.032 328	-0.078 0.675 31
P13C12 1. changes: stress/conflicts	-0.026 0.641 331	-0.097 0.077 331	-0.083 0.132 331	0.126 0.022 330	-0.140 0.436 33	0.157 0.004 331	0.165 0.003 331	0.048 0.775 38	-0.000 0.997 328	0.073 0.697 31
P13C13 1. changes: pregnancies, miscarriages	-0.249 0.000 331	-0.176 0.001 331	-0.165 0.003 331	0.017 0.756 330	-0.157 0.382 33	0.038 0.486 331	0.094 0.089 331	0.087 0.604 38	-0.007 0.905 328	-0.041 0.826 31
P13C14 1. changes: job-related stress	0.121 0.028 327	0.064 0.246 327	0.074 0.184 327	0.110 0.047 326	-0.007 0.968 32	0.058 0.297 327	0.125 0.024 327	0.032 0.847 38	0.115 0.038 324	0.309 0.103 29
P13C15 1. changes: loss of job	-0.058 0.297 326	-0.007 0.896 326	-0.034 0.540 326	0.109 0.050 325	-0.222 0.222 32	0.089 0.108 326	0.010 0.864 326	-0.290 0.078 38	0.025 0.654 323	0.076 0.697 29
P13C16 1. changes: other	-0.043 0.435 330	-0.123 0.025 330	-0.106 0.055 330	0.083 0.132 329	0.050 0.781 33	-0.043 0.431 330	0.194 0.000 330	-0.045 0.788 38	0.062 0.261 327	-0.178 0.337 31
P13C17 2. TC reaction to changes	0.037 0.550 259	0.058 0.355 259	0.075 0.231 259	-0.125 0.045 258	0.414 0.026 29	0.012 0.847 258	-0.107 0.087 258	0.016 0.925 36	-0.002 0.969 255	-0.133 0.509 27
P13C18 p-rating 1. satisfaction w/parent role	0.340 0.000 332	0.435 0.000 332	0.441 0.000 332	-0.185 0.001 330	0.047 0.795 33	-0.096 0.081 331	-0.072 0.190 331	0.209 0.208 38	-0.001 0.988 328	0.516 0.003 31

Pearson Correlation Coefficients										
Prob > r under H0: Rho=0										
Number of Observations										
	P13C23	P13C24	P13C25	P13C74	P13C75	P13C76	P13C77	P13C78	P13C79	P13C80
P13C19 p-rating 2. child difficulty	-0.401 0.000 332	-0.493 0.000 332	-0.502 0.000 332	0.131 0.017 330	-0.245 0.169 33	0.136 0.013 331	0.058 0.292 331	-0.367 0.024 38	0.004 0.937 328	-0.470 0.008 31
P13C20 p-rating 3. parent-child relation	0.421 0.000 332	0.599 0.000 332	0.582 0.000 332	-0.066 0.230 330	0.084 0.643 33	-0.004 0.936 331	-0.090 0.100 331	0.374 0.021 38	0.033 0.555 328	0.312 0.088 31
P13C21 p-rating 4. satisfaction child behav	0.426 0.000 332	0.595 0.000 332	0.558 0.000 332	-0.212 0.000 330	0.283 0.111 33	-0.159 0.004 331	-0.073 0.186 331	0.276 0.094 38	0.029 0.603 328	0.274 0.135 31
P13C22 i-rating 1. parent description of TC	0.624 0.000 333	0.744 0.000 333	0.762 0.000 333	-0.168 0.002 330	0.318 0.071 33	-0.107 0.053 331	-0.053 0.333 331	0.214 0.196 38	0.050 0.367 328	0.289 0.115 31
P13C23 i-rating 2. parent insight about TC	1.000 333	0.629 0.000 333	0.723 0.000 333	-0.061 0.272 330	0.287 0.106 33	-0.079 0.152 331	-0.061 0.270 331	0.387 0.016 38	0.068 0.221 328	0.305 0.095 31
P13C24 i-rating 3. parent affect	0.629 0.000 333	1.000 333	0.808 0.000 333	-0.172 0.002 330	0.167 0.352 33	-0.053 0.341 331	-0.055 0.317 331	0.251 0.129 38	0.031 0.581 328	0.337 0.063 31
P13C25 i-rating 4. parent-child relationship	0.723 0.000 333	0.808 0.000 333	1.000 333	-0.059 0.288 330	0.333 0.059 33	-0.020 0.716 331	-0.079 0.150 331	0.203 0.221 38	0.011 0.836 328	0.074 0.694 31
P13C74 13. TC treated emot/beh difficulties	-0.061 0.272 330	-0.172 0.002 330	-0.059 0.288 330	1.000 330	.	0.332 0.000 330	0.259 0.000 330	0.081 0.630 38	0.216 0.000 327	-0.050 0.787 31
P13C75 13a. facility where TC treated	0.287 0.106 33	0.167 0.352 33	0.333 0.059 33	.	1.000 33	-0.101 0.576 33	0.407 0.019 33	-0.135 0.676 12	0.258 0.161 31	-0.316 0.407 9
P13C76 14. medication to control beh/attent	-0.079 0.152 331	-0.053 0.341 331	-0.020 0.716 331	0.332 0.000 330	-0.101 0.576 33	1.000 331	0.092 0.095 331	-0.031 0.852 38	0.056 0.315 328	-0.254 0.167 31
P13C77 15. respondent received treatment	-0.061 0.270 331	-0.055 0.317 331	-0.079 0.150 331	0.259 0.000 330	0.407 0.019 33	0.092 0.095 331	1.000 331	.	0.148 0.007 328	-0.128 0.491 31
P13C78 15a. facility where resp treated	0.387 0.016 38	0.251 0.129 38	0.203 0.221 38	0.081 0.630 38	-0.135 0.676 12	-0.031 0.852 38	.	1.000 38	0.118 0.485 37	0.488 0.220 8
P13C79 16. others receive treatment	0.068 0.221 328	0.031 0.581 328	0.011 0.836 328	0.216 0.000 327	0.258 0.161 31	0.056 0.315 328	0.148 0.007 328	0.118 0.485 37	1.000 328	.
P13C80 16a. which member was treated	0.305 0.095 31	0.337 0.063 31	0.074 0.694 31	-0.050 0.787 31	-0.316 0.407 9	-0.254 0.167 31	-0.128 0.491 31	0.488 0.220 8	.	1.000 31

Appendix – SAS Scoring Program
(See Instrument Summary)