

**Life Changes**  
Grade 11/Year 12  
Fast Track Project Technical Report  
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**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:* P12C

*Scored:* LCH12

**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 12 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 exploratory 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 twelfth year of the study. Overall, 119 records were missing the whole measure. 46 were missing from the control sample (4 from Durham, 16 from Nashville, 12 from Pennsylvania, and 14 from Washington) and 103 were missing from the normative sample (12 from Durham, 40 from Nashville, 21 from Pennsylvania, and 30 from Washington).

In addition, it should be noted that 260 records skipped 3 or more items; of these, 70 were from the control sample (28 from Durham, 11 from Nashville, 17 from Pennsylvania, and 14 from Washington) and 222 were from the normative sample (69 from Durham, 46 from Nashville, 62 from Pennsylvania, and 45 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 (75 responses), what type of treatment facility the child had used for emotional or behavioral difficulties in the past year (295 responses), what type of treatment facility the respondent had used in the past year (303 responses), and which other member of the family had received treatment (305 responses).

## III. Scaling

During year 12 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
Y12 LC Quality Parent-Child Relat_Observ (LCH12qob)	0.90	0.87
Y12 LC Quality Parent-Child Relat_Parent (LCH12qpr)	0.75	0.76
Y12 LC Stress Scale sum score (LCH12str)	0.55	0.57

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 which is to be expected for a checklist.

#### IV. Differences Between Groups

A series of t-tests indicated significant differences between the normative and control samples for all three of the 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, while *Stress Scale* showed the mean for the control sample to be greater than the mean for the normative sample.

Only 1 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 (P12C74). The control mean was higher than the normative mean.

Comparison of Means for Normative and Control for Scales							
Variable	Normative		Control		DF	t Value	Pr >  t
	Mean	Std Dev	Mean	Std Dev			
Y12 LC Quality Parent-Child Relat_Observer (LCH12qob)	3.94	0.71	3.60	0.74	342	-3.98	<.0001
Y12 LC Quality Parent-Child Relat_Parent (LCH12qpr)	4.02	0.68	3.66	0.77	342	-4.33	<.0001
Y12 LC Stress Scale sum score (LCH12str)	3.08	3.06	3.85	3.39	342	2.11	0.0360

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 (P12C17)	2.83	1.20	2.82	1.23	266	-0.02	0.9816
13. TC treated emot/beh difficulties (P12C74)	0.09	0.28	0.27	0.45	147	3.94	0.0001
13a. facility where TC treated (P12C75)	2.00	0.46	1.93	0.65	47	-0.41	0.6848
14. medication to control beh/attent (P12C76)	0.04	0.20	0.10	0.30	154	1.83	0.0688
15. respondent received treatment (P12C77)	0.11	0.31	0.15	0.36	341	1.11	0.2694
15a. facility where resp treated (P12C78)	2.32	0.95	2.19	0.75	39	-0.47	0.6390
16. others receive treatment (P12C79)	0.09	0.29	0.16	0.37	167	1.72	0.0869
16a. which member was treated (P12C80)	2.38	0.50	2.00	0.00	20	-3.51	0.0022

#### 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 only for the normative sample.

Analysts should also note that several items were excluded from the analysis because they were open-ended response questions. Item P12C11a asked the respondent to specify which person had been involved with drug use, alcohol use, or addiction during the past year. Item P12C16a asked the respondent to specify any life changes not previously mentioned in the list. Item P12C75a 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 P12C78a 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 P12C17A-P12C17D were the respondent's answers to a series of four questions about the child. These questions were: what is the child like (P12C17A), how well do the respondent and the child get along (P12C17B), what is the best thing about the child (P12C17C), and what is the most troubling thing about the child/concerns about the child (P12C17D).

## VI. Item and Scale Means and SDs

Descriptive Statistics for Items - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P12C1	1. changes: moved/major remodeling	107	0.48	0.77	0.00	2.00
P12C2	1. changes: medical problems w/TC	108	0.24	0.62	0.00	2.00
P12C3	1. changes: medical problems w/family	108	0.38	0.72	0.00	2.00
P12C4	1. changes: death of important person	109	0.43	0.80	0.00	2.00
P12C5	1. changes: divorce of TCs parents	109	0.03	0.21	0.00	2.00
P12C6	1. changes: separation of TCs parents	109	0.06	0.34	0.00	2.00
P12C7	1. changes: remarriage/reconciliation	109	0.01	0.10	0.00	1.00
P12C8	1. changes: parent/child separation	109	0.23	0.55	0.00	2.00
P12C9	1. changes: financial problems	109	0.49	0.74	0.00	2.00
P12C10	1. changes: legal problems	109	0.20	0.54	0.00	2.00
P12C11	1. changes: drug/alcohol use	109	0.13	0.47	0.00	2.00
P12C12	1. changes: stress/conflicts	108	0.29	0.63	0.00	2.00
P12C13	1. changes: pregnancies, miscarriages	109	0.20	0.56	0.00	2.00
P12C14	1. changes: job-related stress	109	0.34	0.66	0.00	2.00
P12C15	1. changes: loss of job	109	0.28	0.66	0.00	2.00
P12C16	1. changes: other	109	0.09	0.42	0.00	2.00
P12C17	2. TC reaction to changes	90	2.82	1.23	1.00	5.00
P12C18	p-rating 1. satisfaction w/parent role	109	3.94	0.93	1.00	5.00
P12C19	p-rating 2. child difficulty	109	2.94	1.01	1.00	5.00
P12C20	p-rating 3. parent-child relation	109	4.01	0.99	1.00	5.00
P12C21	p-rating 4. satisfaction child behav	109	3.64	1.11	1.00	5.00
P12C22	i-rating 1. parent description of TC	109	3.76	0.94	1.00	5.00
P12C23	i-rating 2. parent insight about TC	109	3.39	0.89	1.00	5.00
P12C24	i-rating 3. parent affect	109	3.75	0.77	1.00	5.00
P12C25	i-rating 4. parent-child relationship	109	3.50	0.88	0.00	5.00
P12C74	13. TC treated emot/beh difficulties	108	0.27	0.45	0.00	1.00
P12C75	13a. facility where TC treated	29	1.93	0.65	1.00	3.00
P12C76	14. medication to control beh/attent	109	0.10	0.30	0.00	1.00
P12C77	15. respondent received treatment	108	0.15	0.36	0.00	1.00
P12C78	15a. facility where resp treated	16	2.19	0.75	1.00	4.00
P12C79	16. others receive treatment	107	0.16	0.37	0.00	1.00
P12C80	16a. which member was treated	17	2.00	0.00	2.00	2.00

Descriptive Statistics for Items - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P12C1	1. changes: moved/major remodeling	282	0.39	0.72	0.00	2.00
P12C2	1. changes: medical problems w/TC	283	0.23	0.59	0.00	2.00
P12C3	1. changes: medical problems w/family	283	0.42	0.76	0.00	2.00
P12C4	1. changes: death of important person	284	0.38	0.75	0.00	2.00
P12C5	1. changes: divorce of TCs parents	284	0.05	0.29	0.00	2.00
P12C6	1. changes: separation of TCs parents	284	0.10	0.42	0.00	2.00
P12C7	1. changes: remarriage/reconciliation	284	0.02	0.20	0.00	2.00
P12C8	1. changes: parent/child separation	284	0.14	0.47	0.00	2.00
P12C9	1. changes: financial problems	284	0.35	0.66	0.00	2.00
P12C10	1. changes: legal problems	284	0.14	0.46	0.00	2.00
P12C11	1. changes: drug/alcohol use	283	0.12	0.45	0.00	2.00
P12C12	1. changes: stress/conflicts	283	0.22	0.57	0.00	2.00
P12C13	1. changes: pregnancies, miscarriages	283	0.14	0.45	0.00	2.00
P12C14	1. changes: job-related stress	284	0.23	0.54	0.00	2.00
P12C15	1. changes: loss of job	284	0.15	0.48	0.00	2.00
P12C16	1. changes: other	284	0.13	0.47	0.00	2.00
P12C17	2. TC reaction to changes	218	2.81	1.21	1.00	5.00
P12C18	p-rating 1. satisfaction w/parent role	284	4.27	0.89	1.00	5.00
P12C19	p-rating 2. child difficulty	284	2.70	0.98	1.00	5.00
P12C20	p-rating 3. parent-child relation	284	4.33	0.79	2.00	5.00
P12C21	p-rating 4. satisfaction child behav	284	4.01	1.03	1.00	5.00
P12C22	i-rating 1. parent description of TC	284	4.07	0.90	1.00	5.00
P12C23	i-rating 2. parent insight about TC	284	3.74	0.86	1.00	5.00
P12C24	i-rating 3. parent affect	284	3.94	0.76	1.00	5.00
P12C25	i-rating 4. parent-child relationship	284	3.79	0.88	0.00	5.00
P12C74	13. TC treated emot/beh difficulties	283	0.12	0.32	0.00	1.00
P12C75	13a. facility where TC treated	33	1.97	0.53	1.00	3.00
P12C76	14. medication to control beh/attent	284	0.05	0.22	0.00	1.00
P12C77	15. respondent received treatment	283	0.12	0.33	0.00	1.00
P12C78	15a. facility where resp treated	34	2.32	0.94	1.00	4.00
P12C79	16. others receive treatment	282	0.11	0.31	0.00	1.00
P12C80	16a. which member was treated	30	2.27	0.45	2.00	3.00

Descriptive Statistics for Subscales - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH12qob	Y12 LC Quality Parent-Child Relat_Observer	109	3.60	0.74	1.00	5.00
LCH12qpr	Y12 LC Quality Parent-Child Relat_Parent	109	3.66	0.77	1.50	5.00
LCH12str	Y12 LC Stress Scale sum score	109	3.85	3.39	0.00	14.00

Descriptive Statistics for Subscales - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH12qob	Y12 LC Quality Parent-Child Relat_Observer	284	3.89	0.74	1.00	5.00
LCH12qpr	Y12 LC Quality Parent-Child Relat_Parent	284	3.98	0.70	1.75	5.00
LCH12str	Y12 LC Stress Scale sum score	284	3.21	3.08	0.00	17.00

## VII. Item and Scale Correlations

### Item Correlations

Pearson Correlation Coefficients Prob >  r  under H0: Rho=0 Number of Observations												
	P12C1	P12C2	P12C3	P12C4	P12C5	P12C6	P12C7	P12C8	P12C9	P12C10	P12C11	P12C12
<b>P12C1</b> 1. changes: moved/major remodeling	1.000 342	0.067 0.214 342	0.073 0.175 342	0.060 0.271 342	0.107 0.048 342	0.221 0.000 342	0.014 0.795 342	0.086 0.114 342	0.115 0.034 342	0.065 0.228 342	0.092 0.091 341	0.096 0.077 341
<b>P12C2</b> 1. changes: medical problems w/TC	0.067 0.214 342	1.000 343	0.090 0.094 343	0.061 0.256 343	0.010 0.850 343	-0.013 0.807 343	-0.049 0.365 343	0.100 0.065 343	0.091 0.092 343	0.164 0.002 343	0.118 0.029 342	-0.014 0.801 342
<b>P12C3</b> 1. changes: medical problems w/family	0.073 0.175 342	0.090 0.094 343	1.000 343	0.177 0.001 343	-0.026 0.628 343	0.058 0.286 343	0.018 0.737 343	0.067 0.218 343	0.178 0.001 343	-0.018 0.747 343	0.154 0.004 342	0.067 0.219 342
<b>P12C4</b> 1. changes: death of important person	0.060 0.271 342	0.061 0.256 343	0.177 0.001 343	1.000 344	0.003 0.960 344	0.000 0.998 344	-0.064 0.234 344	0.090 0.094 344	0.111 0.039 344	0.076 0.157 344	0.046 0.391 343	0.157 0.004 343
<b>P12C5</b> 1. changes: divorce of TCs parents	0.107 0.048 342	0.010 0.850 343	-0.026 0.628 343	0.003 0.960 344	1.000 344	0.374 0.000 344	-0.019 0.725 344	0.101 0.062 344	0.153 0.004 344	0.082 0.131 344	0.147 0.006 343	0.011 0.836 343
<b>P12C6</b> 1. changes: separation of TCs parents	0.221 0.000 342	-0.013 0.807 343	0.058 0.286 343	0.000 0.998 344	0.374 0.000 344	1.000 344	-0.028 0.598 344	0.171 0.001 344	0.110 0.041 344	0.053 0.325 344	0.110 0.042 343	0.052 0.338 343
<b>P12C7</b> 1. changes: remarriage/reconciliation	0.014 0.795 342	-0.049 0.365 343	0.018 0.737 343	-0.064 0.234 344	-0.019 0.725 344	-0.028 0.598 344	1.000 344	0.075 0.163 344	0.022 0.679 344	0.027 0.614 344	-0.032 0.557 343	0.061 0.262 343
<b>P12C8</b> 1. changes: parent/child separation	0.086 0.114 342	0.100 0.065 343	0.067 0.218 343	0.090 0.094 344	0.101 0.062 344	0.171 0.001 344	0.075 0.163 344	1.000 344	0.153 0.004 344	0.089 0.099 344	0.317 0.000 343	0.065 0.232 343
<b>P12C9</b> 1. changes: financial problems	0.115 0.034 342	0.091 0.092 343	0.178 0.001 343	0.111 0.039 344	0.153 0.004 344	0.110 0.041 344	0.022 0.679 344	0.153 0.004 344	1.000 344	0.333 0.000 344	0.204 0.000 343	0.290 0.000 343
<b>P12C10</b> 1. changes: legal problems	0.065 0.228 342	0.164 0.002 343	-0.018 0.747 343	0.076 0.157 344	0.082 0.131 344	0.053 0.325 344	0.027 0.614 344	0.089 0.099 344	0.333 0.000 344	1.000 344	0.241 0.000 343	0.344 0.000 343
<b>P12C11</b> 1. changes: drug/alcohol use	0.092 0.091 341	0.118 0.029 342	0.154 0.004 342	0.046 0.391 343	0.147 0.006 343	0.110 0.042 343	-0.032 0.557 343	0.317 0.000 343	0.204 0.000 343	0.241 0.000 343	1.000 343	0.155 0.004 342
<b>P12C12</b> 1. changes: stress/conflicts	0.096 0.077 341	-0.014 0.801 342	0.067 0.219 342	0.157 0.004 343	0.011 0.836 343	0.052 0.338 343	0.061 0.262 343	0.065 0.232 343	0.290 0.000 343	0.344 0.000 343	0.155 0.004 342	1.000 343
<b>P12C13</b> 1. changes: pregnancies, miscarriages	0.031 0.571 341	0.180 0.001 342	-0.024 0.657 342	0.043 0.427 343	0.038 0.480 343	0.022 0.688 343	-0.040 0.462 343	0.006 0.916 343	-0.028 0.608 343	0.059 0.279 343	0.133 0.014 342	-0.008 0.876 342
<b>P12C14</b> 1. changes: job-related stress	0.002 0.969 342	0.046 0.392 343	-0.033 0.537 343	0.062 0.250 344	0.007 0.897 344	-0.086 0.112 344	0.002 0.971 344	0.016 0.772 344	0.182 0.001 344	0.210 0.000 344	0.034 0.533 343	0.280 0.000 343
<b>P12C15</b> 1. changes: loss of job	0.060 0.266 342	-0.060 0.266 343	-0.009 0.873 343	-0.026 0.624 344	0.097 0.073 344	-0.078 0.151 344	-0.014 0.795 344	0.042 0.440 344	0.334 0.000 344	0.165 0.002 344	-0.036 0.501 343	0.053 0.330 343
<b>P12C16</b> 1. changes: other	0.052 0.339 342	0.013 0.807 343	0.035 0.520 343	-0.014 0.802 344	0.090 0.095 344	0.049 0.360 344	-0.034 0.531 344	0.000 1.000 344	0.025 0.640 344	-0.045 0.402 344	0.133 0.014 343	0.114 0.035 343



Pearson Correlation Coefficients Prob >  r  under H0: Rho=0 Number of Observations												
	P12C1	P12C2	P12C3	P12C4	P12C5	P12C6	P12C7	P12C8	P12C9	P12C10	P12C11	P12C12
<b>P12C17</b> 2. TC reaction to changes	0.132 0.031 266	0.077 0.209 267	-0.090 0.141 267	-0.108 0.078 268	-0.013 0.832 268	-0.087 0.156 268	-0.009 0.886 268	-0.105 0.086 268	-0.187 0.002 268	-0.107 0.081 268	-0.173 0.005 267	-0.129 0.034 267
<b>P12C18</b> p-rating 1. satisfaction w/parent role	-0.127 0.019 342	-0.057 0.292 343	0.042 0.439 343	0.018 0.743 344	-0.009 0.873 344	-0.022 0.685 344	-0.042 0.435 344	-0.084 0.122 344	-0.194 0.000 344	-0.158 0.003 344	-0.195 0.000 343	-0.020 0.714 343
<b>P12C19</b> p-rating 2. child difficulty	-0.064 0.238 342	0.022 0.689 343	0.024 0.652 343	0.010 0.860 344	-0.084 0.119 344	0.060 0.266 344	0.001 0.983 344	0.117 0.030 344	0.146 0.007 344	0.147 0.006 344	0.145 0.007 343	0.052 0.336 343
<b>P12C20</b> p-rating 3. parent-child relation	0.072 0.184 342	0.055 0.309 343	0.047 0.387 343	0.003 0.950 344	0.074 0.172 344	0.045 0.407 344	0.000 1.000 344	-0.123 0.022 344	-0.052 0.335 344	-0.100 0.065 344	-0.059 0.272 343	-0.009 0.866 343
<b>P12C21</b> p-rating 4. satisfaction child behav	-0.033 0.539 342	-0.015 0.785 343	0.062 0.255 343	0.054 0.317 344	0.088 0.103 344	0.037 0.496 344	-0.021 0.694 344	-0.236 0.000 344	-0.124 0.021 344	-0.133 0.014 344	-0.256 0.000 343	-0.079 0.142 343
<b>P12C22</b> i-rating 1. parent description of TC	-0.014 0.789 342	-0.061 0.261 343	0.033 0.545 343	-0.011 0.839 344	0.066 0.223 344	0.038 0.483 344	-0.002 0.976 344	-0.160 0.003 344	-0.064 0.236 344	-0.087 0.106 344	-0.183 0.001 343	-0.117 0.031 343
<b>P12C23</b> i-rating 2. parent insight about TC	-0.045 0.408 342	0.031 0.561 343	0.091 0.091 343	-0.043 0.426 344	0.045 0.402 344	0.077 0.156 344	-0.007 0.895 344	-0.027 0.622 344	-0.135 0.012 344	-0.096 0.076 344	-0.051 0.343 343	-0.102 0.059 343
<b>P12C24</b> i-rating 3. parent affect	-0.044 0.417 342	-0.041 0.446 343	0.096 0.077 343	0.006 0.914 344	0.073 0.176 344	0.010 0.850 344	0.016 0.763 344	-0.151 0.005 344	-0.124 0.022 344	-0.073 0.176 344	-0.205 0.000 343	-0.067 0.219 343
<b>P12C25</b> i-rating 4. parent-child relationship	-0.032 0.552 342	0.009 0.875 343	0.066 0.220 343	0.037 0.498 344	0.047 0.388 344	0.010 0.850 344	0.002 0.969 344	-0.097 0.071 344	-0.141 0.009 344	-0.126 0.019 344	-0.232 0.000 343	-0.149 0.006 343
<b>P12C74</b> 13. TC treated emot/beh difficulties	0.085 0.117 341	0.227 0.000 342	0.087 0.109 342	0.011 0.839 343	-0.004 0.939 343	0.096 0.076 343	-0.051 0.343 343	0.268 0.000 343	0.090 0.095 343	0.137 0.011 343	0.296 0.000 342	0.106 0.050 342
<b>P12C75</b> 13a. facility where TC treated	0.049 0.737 49	-0.121 0.408 49	0.176 0.226 49	0.037 0.798 49	0.010 0.944 49	0.215 0.137 49	.	0.003 0.986 49	0.003 0.984 49	-0.073 0.616 49	-0.139 0.340 49	0.041 0.783 48
<b>P12C76</b> 14. medication to control beh/attent	-0.096 0.076 342	0.255 0.000 343	0.095 0.080 343	-0.018 0.739 344	-0.039 0.474 344	-0.058 0.284 344	0.034 0.535 344	0.095 0.078 344	0.161 0.003 344	0.049 0.366 344	0.185 0.001 343	-0.037 0.500 343
<b>P12C77</b> 15. respondent received treatment	0.096 0.076 341	0.041 0.451 342	0.254 0.000 342	-0.023 0.677 343	0.006 0.905 343	0.142 0.008 343	0.002 0.969 343	0.143 0.008 343	0.190 0.000 343	0.132 0.014 343	0.136 0.012 342	0.201 0.000 342
<b>P12C78</b> 15a. facility where resp treated	0.077 0.634 41	-0.221 0.164 41	0.186 0.245 41	-0.109 0.497 41	-0.050 0.758 41	0.015 0.927 41	0.320 0.042 41	0.064 0.691 41	0.070 0.665 41	-0.230 0.147 41	0.128 0.431 40	0.075 0.642 41
<b>P12C79</b> 16. others receive treatment	0.002 0.963 339	0.116 0.032 340	0.062 0.254 340	-0.022 0.680 341	0.075 0.165 341	0.036 0.506 341	0.056 0.307 341	0.040 0.462 341	0.051 0.346 341	-0.073 0.179 341	0.016 0.769 340	0.072 0.188 340
<b>P12C80</b> 16a. which member was treated	0.141 0.399 38	0.055 0.745 38	0.136 0.416 38	0.209 0.208 38	0.167 0.315 38	0.131 0.435 38	0.167 0.315 38	0.217 0.190 38	0.276 0.094 38	-0.122 0.467 38	-0.145 0.385 38	0.027 0.870 38

Pearson Correlation Coefficients Prob >  r  under H0: Rho=0 Number of Observations										
	P12C13	P12C14	P12C15	P12C16	P12C17	P12C18	P12C19	P12C20	P12C21	P12C22
<b>P12C1</b> 1. changes: moved/major remodeling	0.031 0.571 341	0.002 0.969 342	0.060 0.266 342	0.052 0.339 342	0.132 0.031 266	-0.127 0.019 342	-0.064 0.238 342	0.072 0.184 342	-0.033 0.539 342	-0.014 0.789 342
<b>P12C2</b> 1. changes: medical problems w/TC	0.180 0.001 342	0.046 0.392 343	-0.060 0.266 343	0.013 0.807 343	0.077 0.209 267	-0.057 0.292 343	0.022 0.689 343	0.055 0.309 343	-0.015 0.785 343	-0.061 0.261 343
<b>P12C3</b> 1. changes: medical problems w/family	-0.024 0.657 342	-0.033 0.537 343	-0.009 0.873 343	0.035 0.520 343	-0.090 0.141 267	0.042 0.439 343	0.024 0.652 343	0.047 0.387 343	0.062 0.255 343	0.033 0.545 343
<b>P12C4</b> 1. changes: death of important person	0.043 0.427 343	0.062 0.250 344	-0.026 0.624 344	-0.014 0.802 344	-0.108 0.078 268	0.018 0.743 344	0.010 0.860 344	0.003 0.950 344	0.054 0.317 344	-0.011 0.839 344
<b>P12C5</b> 1. changes: divorce of TCs parents	0.038 0.480 343	0.007 0.897 344	0.097 0.073 344	0.090 0.095 344	-0.013 0.832 268	-0.009 0.873 344	-0.084 0.119 344	0.074 0.172 344	0.088 0.103 344	0.066 0.223 344
<b>P12C6</b> 1. changes: separation of TCs parents	0.022 0.688 343	-0.086 0.112 344	-0.078 0.151 344	0.049 0.360 344	-0.087 0.156 268	-0.022 0.685 344	0.060 0.266 344	0.045 0.407 344	0.037 0.496 344	0.038 0.483 344
<b>P12C7</b> 1. changes: remarriage/reconciliation	-0.040 0.462 343	0.002 0.971 344	-0.014 0.795 344	-0.034 0.531 344	-0.009 0.886 268	-0.042 0.435 344	0.001 0.983 344	0.000 1.000 344	-0.021 0.694 344	-0.002 0.976 344
<b>P12C8</b> 1. changes: parent/child separation	0.006 0.916 343	0.016 0.772 344	0.042 0.440 344	0.000 1.000 344	-0.105 0.086 268	-0.084 0.122 344	0.117 0.030 344	-0.123 0.022 344	-0.236 0.000 344	-0.160 0.003 344
<b>P12C9</b> 1. changes: financial problems	-0.028 0.608 343	0.182 0.001 344	0.334 0.000 344	0.025 0.640 344	-0.187 0.002 268	-0.194 0.000 344	0.146 0.007 344	-0.052 0.335 344	-0.124 0.021 344	-0.064 0.236 344
<b>P12C10</b> 1. changes: legal problems	0.059 0.279 343	0.210 0.000 344	0.165 0.002 344	-0.045 0.402 344	-0.107 0.081 268	-0.158 0.003 344	0.147 0.006 344	-0.100 0.065 344	-0.133 0.014 344	-0.087 0.106 344
<b>P12C11</b> 1. changes: drug/alcohol use	0.133 0.014 342	0.034 0.533 343	-0.036 0.501 343	0.133 0.014 343	-0.173 0.005 267	-0.195 0.000 343	0.145 0.007 343	-0.059 0.272 343	-0.256 0.000 343	-0.183 0.001 343
<b>P12C12</b> 1. changes: stress/conflicts	-0.008 0.876 342	0.280 0.000 343	0.053 0.330 343	0.114 0.035 343	-0.129 0.034 267	-0.020 0.714 343	0.052 0.336 343	-0.009 0.866 343	-0.079 0.142 343	-0.117 0.031 343
<b>P12C13</b> 1. changes: pregnancies, miscarriages	1.000 343	0.041 0.448 343	0.006 0.919 343	0.142 0.008 343	0.081 0.189 267	-0.124 0.021 343	0.092 0.090 343	-0.049 0.364 343	-0.193 0.000 343	-0.125 0.021 343
<b>P12C14</b> 1. changes: job-related stress	0.041 0.448 343	1.000 344	0.228 0.000 344	0.098 0.069 344	-0.221 0.000 268	-0.071 0.190 344	0.046 0.398 344	-0.035 0.514 344	-0.116 0.032 344	-0.023 0.667 344
<b>P12C15</b> 1. changes: loss of job	0.006 0.919 343	0.228 0.000 344	1.000 344	-0.023 0.670 344	-0.111 0.070 268	-0.086 0.111 344	0.014 0.796 344	-0.012 0.818 344	-0.089 0.101 344	-0.004 0.935 344
<b>P12C16</b> 1. changes: other	0.142 0.008 343	0.098 0.069 344	-0.023 0.670 344	1.000 344	0.039 0.525 268	-0.068 0.209 344	0.059 0.277 344	-0.072 0.186 344	-0.011 0.835 344	-0.060 0.270 344
<b>P12C17</b> 2. TC reaction to changes	0.081 0.189 267	-0.221 0.000 268	-0.111 0.070 268	0.039 0.525 268	1.000 268	0.084 0.169 268	-0.135 0.027 268	0.116 0.058 268	0.125 0.040 268	0.117 0.056 268

Pearson Correlation Coefficients Prob >  r  under H0: Rho=0 Number of Observations										
	P12C13	P12C14	P12C15	P12C16	P12C17	P12C18	P12C19	P12C20	P12C21	P12C22
<b>P12C18</b> p-rating 1. satisfaction w/parent role	-0.124 0.021 343	-0.071 0.190 344	-0.086 0.111 344	-0.068 0.209 344	0.084 0.169 268	1.000 0.000 344	-0.304 0.000 344	0.466 0.000 344	0.448 0.000 344	0.433 0.000 344
<b>P12C19</b> p-rating 2. child difficulty	0.092 0.090 343	0.046 0.398 344	0.014 0.796 344	0.059 0.277 344	-0.135 0.027 268	-0.304 0.000 344	1.000 0.000 344	-0.413 0.000 344	-0.455 0.000 344	-0.442 0.000 344
<b>P12C20</b> p-rating 3. parent-child relation	-0.049 0.364 343	-0.035 0.514 344	-0.012 0.818 344	-0.072 0.186 344	0.116 0.058 268	0.466 0.000 344	-0.413 0.000 344	1.000 0.000 344	0.556 0.000 344	0.508 0.000 344
<b>P12C21</b> p-rating 4. satisfaction child behav	-0.193 0.000 343	-0.116 0.032 344	-0.089 0.101 344	-0.011 0.835 344	0.125 0.040 268	0.448 0.000 344	-0.455 0.000 344	0.556 0.000 344	1.000 0.000 344	0.626 0.000 344
<b>P12C22</b> i-rating 1. parent description of TC	-0.125 0.021 343	-0.023 0.667 344	-0.004 0.935 344	-0.060 0.270 344	0.117 0.056 268	0.433 0.000 344	-0.442 0.000 344	0.508 0.000 344	0.626 0.000 344	1.000 0.000 344
<b>P12C23</b> i-rating 2. parent insight about TC	-0.074 0.172 343	-0.030 0.577 344	-0.038 0.484 344	-0.022 0.688 344	0.014 0.815 268	0.318 0.000 344	-0.329 0.000 344	0.371 0.000 344	0.410 0.000 344	0.614 0.000 344
<b>P12C24</b> i-rating 3. parent affect	-0.126 0.020 343	-0.006 0.919 344	-0.047 0.386 344	-0.023 0.674 344	0.079 0.195 268	0.411 0.000 344	-0.399 0.000 344	0.489 0.000 344	0.595 0.000 344	0.736 0.000 344
<b>P12C25</b> i-rating 4. parent-child relationship	-0.100 0.065 343	-0.043 0.426 344	-0.019 0.725 344	-0.056 0.303 344	0.137 0.025 268	0.365 0.000 344	-0.455 0.000 344	0.440 0.000 344	0.522 0.000 344	0.732 0.000 344
<b>P12C74</b> 13. TC treated emot/beh difficulties	0.101 0.062 342	0.017 0.751 343	0.044 0.420 343	-0.003 0.962 343	-0.075 0.219 268	-0.234 0.000 343	0.180 0.001 343	-0.147 0.006 343	-0.219 0.000 343	-0.249 0.000 343
<b>P12C75</b> 13a. facility where TC treated	-0.140 0.337 49	0.034 0.818 49	0.086 0.559 49	0.020 0.891 49	0.169 0.267 45	0.116 0.428 49	0.096 0.511 49	0.094 0.520 49	0.218 0.133 49	0.108 0.459 49
<b>P12C76</b> 14. medication to control beh/attent	-0.055 0.309 343	0.042 0.432 344	0.047 0.388 344	0.010 0.856 344	-0.100 0.103 268	-0.104 0.054 344	0.167 0.002 344	-0.046 0.394 344	-0.040 0.455 344	-0.085 0.117 344
<b>P12C77</b> 15. respondent received treatment	0.036 0.505 342	0.018 0.746 343	0.088 0.103 343	0.055 0.306 343	-0.009 0.889 268	-0.005 0.924 343	0.110 0.042 343	0.030 0.583 343	-0.043 0.427 343	-0.006 0.912 343
<b>P12C78</b> 15a. facility where resp treated	-0.008 0.963 41	-0.046 0.774 41	-0.059 0.712 41	0.303 0.054 41	-0.173 0.286 40	-0.220 0.167 41	-0.066 0.681 41	-0.088 0.586 41	-0.187 0.241 41	-0.089 0.581 41
<b>P12C79</b> 16. others receive treatment	0.026 0.636 340	-0.038 0.486 341	0.006 0.919 341	0.044 0.415 341	0.049 0.427 266	0.048 0.377 341	0.024 0.659 341	-0.010 0.852 341	0.037 0.491 341	-0.053 0.332 341
<b>P12C80</b> 16a. which member was treated	-0.171 0.304 38	0.075 0.653 38	0.177 0.286 38	0.323 0.048 38	0.000 1.000 31	0.038 0.819 38	-0.080 0.631 38	0.216 0.194 38	0.115 0.492 38	0.249 0.131 38

Pearson Correlation Coefficients Prob >  r  under H0: Rho=0 Number of Observations										
	P12C23	P12C24	P12C25	P12C74	P12C75	P12C76	P12C77	P12C78	P12C79	P12C80
<b>P12C1</b> 1. changes: moved/major remodeling	-0.045 0.408 342	-0.044 0.417 342	-0.032 0.552 342	0.085 0.117 341	0.049 0.737 49	-0.096 0.076 342	0.096 0.076 341	0.077 0.634 41	0.002 0.963 339	0.141 0.399 38
<b>P12C2</b> 1. changes: medical problems w/TC	0.031 0.561 343	-0.041 0.446 343	0.009 0.875 343	0.227 0.000 342	-0.121 0.408 49	0.255 0.000 343	0.041 0.451 342	-0.221 0.164 41	0.116 0.032 340	0.055 0.745 38
<b>P12C3</b> 1. changes: medical problems w/family	0.091 0.091 343	0.096 0.077 343	0.066 0.220 343	0.087 0.109 342	0.176 0.226 49	0.095 0.080 343	0.254 0.000 342	0.186 0.245 41	0.062 0.254 340	0.136 0.416 38
<b>P12C4</b> 1. changes: death of important person	-0.043 0.426 344	0.006 0.914 344	0.037 0.498 344	0.011 0.839 343	0.037 0.798 49	-0.018 0.739 344	-0.023 0.677 343	-0.109 0.497 41	-0.022 0.680 341	0.209 0.208 38
<b>P12C5</b> 1. changes: divorce of TCs parents	0.045 0.402 344	0.073 0.176 344	0.047 0.388 344	-0.004 0.939 343	0.010 0.944 49	-0.039 0.474 344	0.006 0.905 343	-0.050 0.758 41	0.075 0.165 341	0.167 0.315 38
<b>P12C6</b> 1. changes: separation of TCs parents	0.077 0.156 344	0.010 0.850 344	0.010 0.850 344	0.096 0.076 343	0.215 0.137 49	-0.058 0.284 344	0.142 0.008 343	0.015 0.927 41	0.036 0.506 341	0.131 0.435 38
<b>P12C7</b> 1. changes: remarriage/reconciliation	-0.007 0.895 344	0.016 0.763 344	0.002 0.969 344	-0.051 0.343 343	. . 49	0.034 0.535 344	0.002 0.969 343	0.320 0.042 41	0.056 0.307 341	0.167 0.315 38
<b>P12C8</b> 1. changes: parent/child separation	-0.027 0.622 344	-0.151 0.005 344	-0.097 0.071 344	0.268 0.000 343	0.003 0.986 49	0.095 0.078 344	0.143 0.008 343	0.064 0.691 41	0.040 0.462 341	0.217 0.190 38
<b>P12C9</b> 1. changes: financial problems	-0.135 0.012 344	-0.124 0.022 344	-0.141 0.009 344	0.090 0.095 343	0.003 0.984 49	0.161 0.003 344	0.190 0.000 343	0.070 0.665 41	0.051 0.346 341	0.276 0.094 38
<b>P12C10</b> 1. changes: legal problems	-0.096 0.076 344	-0.073 0.176 344	-0.126 0.019 344	0.137 0.011 343	-0.073 0.616 49	0.049 0.366 344	0.132 0.014 343	-0.230 0.147 41	-0.073 0.179 341	-0.122 0.467 38
<b>P12C11</b> 1. changes: drug/alcohol use	-0.051 0.343 343	-0.205 0.000 343	-0.232 0.000 343	0.296 0.000 342	-0.139 0.340 49	0.185 0.001 343	0.136 0.012 342	0.128 0.431 40	0.016 0.769 340	-0.145 0.385 38
<b>P12C12</b> 1. changes: stress/conflicts	-0.102 0.059 343	-0.067 0.219 343	-0.149 0.006 343	0.106 0.050 342	0.041 0.783 48	-0.037 0.500 343	0.201 0.000 342	0.075 0.642 41	0.072 0.188 340	0.027 0.870 38
<b>P12C13</b> 1. changes: pregnancies, miscarriages	-0.074 0.172 343	-0.126 0.020 343	-0.100 0.065 343	0.101 0.062 342	-0.140 0.337 49	-0.055 0.309 343	0.036 0.505 342	-0.008 0.963 41	0.026 0.636 340	-0.171 0.304 38
<b>P12C14</b> 1. changes: job-related stress	-0.030 0.577 344	-0.006 0.919 344	-0.043 0.426 344	0.017 0.751 343	0.034 0.818 49	0.042 0.432 344	0.018 0.746 343	-0.046 0.774 41	-0.038 0.486 341	0.075 0.653 38
<b>P12C15</b> 1. changes: loss of job	-0.038 0.484 344	-0.047 0.386 344	-0.019 0.725 344	0.044 0.420 343	0.086 0.559 49	0.047 0.388 344	0.088 0.103 343	-0.059 0.712 41	0.006 0.919 341	0.177 0.286 38
<b>P12C16</b> 1. changes: other	-0.022 0.688 344	-0.023 0.674 344	-0.056 0.303 344	-0.003 0.962 343	0.020 0.891 49	0.010 0.856 344	0.055 0.306 343	0.303 0.054 41	0.044 0.415 341	0.323 0.048 38
<b>P12C17</b> 2. TC reaction to changes	0.014 0.815 268	0.079 0.195 268	0.137 0.025 268	-0.075 0.219 268	0.169 0.267 45	-0.100 0.103 268	-0.009 0.889 268	-0.173 0.286 40	0.049 0.427 266	0.000 1.000 31

Pearson Correlation Coefficients Prob >  r  under H0: Rho=0 Number of Observations										
	P12C23	P12C24	P12C25	P12C74	P12C75	P12C76	P12C77	P12C78	P12C79	P12C80
<b>P12C18</b> p-rating 1. satisfaction w/parent role	0.318 0.000 344	0.411 0.000 344	0.365 0.000 344	-0.234 0.000 343	0.116 0.428 49	-0.104 0.054 344	-0.005 0.924 343	-0.220 0.167 41	0.048 0.377 341	0.038 0.819 38
<b>P12C19</b> p-rating 2. child difficulty	-0.329 0.000 344	-0.399 0.000 344	-0.455 0.000 344	0.180 0.001 343	0.096 0.511 49	0.167 0.002 344	0.110 0.042 343	-0.066 0.681 41	0.024 0.659 341	-0.080 0.631 38
<b>P12C20</b> p-rating 3. parent-child relation	0.371 0.000 344	0.489 0.000 344	0.440 0.000 344	-0.147 0.006 343	0.094 0.520 49	-0.046 0.394 344	0.030 0.583 343	-0.088 0.586 41	-0.010 0.852 341	0.216 0.194 38
<b>P12C21</b> p-rating 4. satisfaction child behav	0.410 0.000 344	0.595 0.000 344	0.522 0.000 344	-0.219 0.000 343	0.218 0.133 49	-0.040 0.455 344	-0.043 0.427 343	-0.187 0.241 41	0.037 0.491 341	0.115 0.492 38
<b>P12C22</b> i-rating 1. parent description of TC	0.614 0.000 344	0.736 0.000 344	0.732 0.000 344	-0.249 0.000 343	0.108 0.459 49	-0.085 0.117 344	-0.006 0.912 343	-0.089 0.581 41	-0.053 0.332 341	0.249 0.131 38
<b>P12C23</b> i-rating 2. parent insight about TC	1.000 0.000 344	0.585 0.000 344	0.658 0.000 344	-0.155 0.004 343	-0.012 0.936 49	-0.086 0.111 344	-0.070 0.198 343	-0.051 0.752 41	0.004 0.942 341	-0.100 0.549 38
<b>P12C24</b> i-rating 3. parent affect	0.585 0.000 344	1.000 0.000 344	0.742 0.000 344	-0.210 0.000 343	0.074 0.611 49	-0.047 0.388 344	-0.023 0.673 343	-0.047 0.770 41	-0.033 0.543 341	0.093 0.578 38
<b>P12C25</b> i-rating 4. parent-child relationship	0.658 0.000 344	0.742 0.000 344	1.000 0.000 344	-0.264 0.000 343	0.091 0.534 49	-0.133 0.013 344	-0.039 0.476 343	-0.039 0.807 41	-0.065 0.234 341	0.154 0.356 38
<b>P12C74</b> 13. TC treated emot/beh difficulties	-0.155 0.004 343	-0.210 0.000 343	-0.264 0.000 343	1.000 0.000 343	. . 49	0.417 0.000 343	0.338 0.000 343	-0.177 0.268 41	0.178 0.001 341	-0.073 0.663 38
<b>P12C75</b> 13a. facility where TC treated	-0.012 0.936 49	0.074 0.611 49	0.091 0.534 49	. . 49	1.000 0.746 49	0.048 0.054 49	0.277 0.001 49	0.711 0.001 19	-0.042 0.778 48	0.135 0.676 12
<b>P12C76</b> 14. medication to control beh/attent	-0.086 0.111 344	-0.047 0.388 344	-0.133 0.013 344	0.417 0.000 343	0.048 0.746 49	1.000 0.002 344	0.168 0.002 343	-0.066 0.680 41	0.142 0.009 341	-0.047 0.781 38
<b>P12C77</b> 15. respondent received treatment	-0.070 0.198 343	-0.023 0.673 343	-0.039 0.476 343	0.338 0.000 343	0.277 0.054 49	0.168 0.002 343	1.000 0.002 343	. . 41	0.189 0.000 341	0.240 0.147 38
<b>P12C78</b> 15a. facility where resp treated	-0.051 0.752 41	-0.047 0.770 41	-0.039 0.807 41	-0.177 0.268 41	0.711 0.001 19	-0.066 0.680 41	. . 41	1.000 0.001 41	-0.002 0.992 40	0.418 0.200 11
<b>P12C79</b> 16. others receive treatment	0.004 0.942 341	-0.033 0.543 341	-0.065 0.234 341	0.178 0.001 341	-0.042 0.778 48	0.142 0.009 341	0.189 0.000 341	-0.002 0.992 40	1.000 0.001 341	. . 38
<b>P12C80</b> 16a. which member was treated	-0.100 0.549 38	0.093 0.578 38	0.154 0.356 38	-0.073 0.663 38	0.135 0.676 12	-0.047 0.781 38	0.240 0.147 38	0.418 0.200 11	. . 38	1.000 0.001 38

### Scale Correlations

Pearson Correlation Coefficients, N = 344 Prob >  r  under H0: Rho=0			
	LCH12qob	LCH12qpr	LCH12str
LCH12qob Y12 LC Quality Parent-Child Relat_Observer	1.000	0.672 0.000	-0.132 0.015
LCH12qpr Y12 LC Quality Parent-Child Relat_Parent	0.672 0.000	1.000	-0.178 0.001
LCH12str Y12 LC Stress Scale sum score	-0.132 0.015	-0.178 0.001	1.000

**Appendix – SAS Scoring Program**  
[\(See Instrument Summary\)](#)