

Life Changes
Grade 10/Year 11
Fast Track Project Technical Report
Cynthia Rains
November 22, 2002

Table of Contents

- I. Scale Description
- II. Report Sample
- III. Scaling
- IV. Differences Between Groups
- V. Recommendations for Use
- VI. Item and Scale Means and SDs
- VII. Item and Scale Correlations

Appendices:

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: P11C

Scored: LCH11

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: perceptions of the parent-child relationship, life changes for the previous year, discipline strategies, and service utilization items. The fourth version is given during year 4 and includes the same four 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 and about service utilization.

The Life Changes measure has been modified over time but the basic items are primarily still the same. The measure first assesses whether any events, major or minor, have occurred during the past year for the child; examples of these events include 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. Next, the interviewer describes a series of six situations, and the parent is asked to describe how she/he would handle the misbehavior in that situation (i.e. ignoring the actions, reasoning, directions, etc.). Interviewers then code these responses as 0 (not mentioned) or 1 (mentioned). 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 eleventh year of the study. Overall, 109 records were missing the whole measure. 41 were missing from the control sample (7 from Durham, 12 from Nashville, 13 from Pennsylvania, and 9 from Washington) and 94 were missing from the normative sample (15 from Durham, 26 from Nashville, 29 from Pennsylvania, and 24 from Washington).

In addition, it should be noted that 261 records skipped 3 or more items; of these, 73 were from the control sample (22 from Durham, 20 from Nashville, 13 from Pennsylvania, and 18 from Washington) and 224 were from the normative sample (68 from Durham, 56 from Nashville, 59 from Pennsylvania, and 41 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 (56 responses), what type of treatment facility the child had used for emotional or behavioral difficulties in the past year (304 responses), what type of treatment facility the respondent had used in the past year (316 responses), and which other member of the family had received treatment (311 responses).

III. Scaling

As noted earlier, there are four main sections to the Life Changes measure: perceptions of the parent-child relationship, life changes (only for the previous year), discipline strategies, and service utilization items. These are then broken down into eleven 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.

The rest of the subscales come as part of the section on discipline strategies. In this portion of the measure, the parent is presented with a series of vignettes that cover episodes of child misbehavior. The parent is asked to describe how they would respond to the scenario. The interviewer then rates whether or not the parent mentioned using any of the following discipline strategies: ignore, reasoning, inductive reasoning, verbal punishment, withdrawal of privileges, commands, proactive guidance, or physical punishment. During year 4 of this study, the strategies change and remain the same for the later years. The new strategies in year 4 are: contingent ignoring, doing nothing, reasoning/inductive reasoning/proactive guidance, inappropriate verbal correction, appropriate verbal correction, withdrawal of privileges, directives, or physical punishment.

Each of the discipline strategies are summed across the vignettes, averaged, and maintained as a separate scale score. In other words, the items on the scale represent the responses for each vignette for that specific discipline strategy. The subscales based on the vignettes are not included after year 4 because the items involved in these subscales are dropped after year 4.

Cronbach's alpha was calculated for each subscale and are shown in the table below:

Cronbach's Alpha for Scales		
Variable	Normative	High Risk Control
Y11 LC Quality Parent-Child Relat_Observ (LCH11qob)	0.86	0.90
Y11 LC Quality Parent-Child Relat_Parent (LCH11qpr)	0.76	0.80
Y11 LC Stress Scale sum score (LCH11str)	0.62	0.68

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. The *Stress Scale Sum Score* showed a more moderate reliability for both samples.

IV. Differences Between Groups

A series of t-tests indicated significant differences between the normative and control samples for two of the subscales. The *Stress Score Sum Scale* did not indicate significant differences between the samples, but the *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version* also showed the mean for the normative sample to be greater than the mean for the control sample.

Several of the items also indicated significant differences between the normative and control samples. They were whether the child had received treatment for emotional or behavioral difficulties (P11C74), whether the child had received medication to control behavior or attention (P11C76), and what type of treatment facility the respondent had used in the past year for the treatment of personal or emotional difficulties (P11C78). For all of these items the control sample mean was greater than the normative sample mean.

Comparison of Means for Normative and Control for Scales							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
Y11 LC Quality Parent-Child Relat_Observer (LCH11qob)	3.99	0.69	3.77	0.73	352	-2.77	0.0060
Y11 LC Quality Parent-Child Relat_Parent (LCH11qpr)	4.02	0.71	3.61	0.77	352	-4.87	<.0001
Y11 LC Stress Scale sum score (LCH11str)	3.42	3.25	4.15	3.94	189	1.71	0.0887

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 (P11C17)	2.76	1.17	2.81	1.26	295	0.37	0.7105
13. TC treated emot/beh difficulties (P11C74)	0.09	0.29	0.25	0.43	163	3.45	0.0007
13a. facility where TC treated (P11C75)	1.77	0.69	1.93	0.47	48	0.96	0.3439
14. medication to control beh/attent (P11C76)	0.05	0.23	0.12	0.33	166	2.01	0.0462

Comparison of Means for Normative and Control for Items							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
15. respondent received treatment (P11C77)	0.08	0.28	0.16	0.37	177	1.92	0.0569
15a. facility where resp treated (P11C78)	2.00	0.79	2.67	0.97	36	2.33	0.0257
16. others receive treatment (P11C79)	0.12	0.32	0.13	0.34	347	0.37	0.7086
16a. which member was treated (P11C80)	2.14	0.36	2.07	0.26	41	-0.73	0.4695

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 P11C11a asked the respondent to specify which person had been involved with drug use, alcohol use, or addiction during the past year. Item P11C16a asked the respondent to specify any life changes not previously mentioned in the list. Item P11C75a 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 P11C78a 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 P11C17A-P11C17D were the respondent's answers to a series of four questions about the child. These questions were: what is the child like (P11C17A), how well do the respondent and the child get along (P11C17B), what is the best thing about the child (P11C17C), and what is the most troubling thing about the child/concerns about the child (P11C17D).

VI. Item and Scale Means and SDs

Descriptive Statistics for Items - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P11C1	1. changes: moved/major remodeling	113	0.47	0.74	0.00	2.00
P11C2	1. changes: medical problems w/TC	113	0.23	0.58	0.00	2.00
P11C3	1. changes: medical problems w/family	113	0.58	0.81	0.00	2.00
P11C4	1. changes: death of important person	113	0.37	0.72	0.00	2.00
P11C5	1. changes: divorce of TCs parents	112	0.04	0.28	0.00	2.00
P11C6	1. changes: separation of TCs parents	112	0.06	0.34	0.00	2.00
P11C7	1. changes: remarriage/reconciliation	112	0.05	0.32	0.00	2.00
P11C8	1. changes: parent/child separation	114	0.31	0.65	0.00	2.00
P11C9	1. changes: financial problems	114	0.40	0.74	0.00	2.00
P11C10	1. changes: legal problems	114	0.23	0.58	0.00	2.00
P11C11	1. changes: drug/alcohol use	113	0.24	0.63	0.00	2.00
P11C12	1. changes: stress/conflicts	113	0.27	0.61	0.00	2.00
P11C13	1. changes: pregnancies, miscarriages	113	0.15	0.49	0.00	2.00
P11C14	1. changes: job-related stress	114	0.35	0.66	0.00	2.00
P11C15	1. changes: loss of job	113	0.23	0.60	0.00	2.00
P11C16	1. changes: other	113	0.19	0.53	0.00	2.00
P11C17	2. TC reaction to changes	102	2.81	1.26	1.00	5.00
P11C18	p-rating 1. satisfaction w/parent role	114	4.04	0.87	1.00	5.00
P11C19	p-rating 2. child difficulty	114	3.03	0.91	1.00	5.00
P11C20	p-rating 3. parent-child relation	114	3.96	1.01	1.00	5.00
P11C21	p-rating 4. satisfaction child behav	114	3.48	1.11	1.00	5.00
P11C22	i-rating 1. parent description of TC	114	3.94	0.87	1.00	5.00
P11C23	i-rating 2. parent insight about TC	114	3.67	0.91	1.00	5.00
P11C24	i-rating 3. parent affect	114	3.79	0.72	2.00	5.00
P11C25	i-rating 4. parent-child relationship	114	3.68	0.85	2.00	5.00
P11C74	13. TC treated emot/beh difficulties	114	0.25	0.43	0.00	1.00
P11C75	13a. facility where TC treated	28	1.93	0.47	1.00	3.00
P11C76	14. medication to control beh/attent	114	0.12	0.33	0.00	1.00
P11C77	15. respondent received treatment	114	0.16	0.37	0.00	1.00
P11C78	15a. facility where resp treated	18	2.67	0.97	2.00	4.00
P11C79	16. others receive treatment	113	0.13	0.34	0.00	1.00
P11C80	16a. which member was treated	15	2.07	0.26	2.00	3.00

Descriptive Statistics for Items - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P11C1	1. changes: moved/major remodeling	292	0.50	0.78	0.00	2.00
P11C2	1. changes: medical problems w/TC	292	0.24	0.60	0.00	2.00
P11C3	1. changes: medical problems w/family	292	0.51	0.81	0.00	2.00
P11C4	1. changes: death of important person	292	0.40	0.76	0.00	2.00
P11C5	1. changes: divorce of TCs parents	290	0.02	0.21	0.00	2.00
P11C6	1. changes: separation of TCs parents	290	0.06	0.33	0.00	2.00
P11C7	1. changes: remarriage/reconciliation	290	0.03	0.24	0.00	2.00
P11C8	1. changes: parent/child separation	292	0.22	0.58	0.00	2.00
P11C9	1. changes: financial problems	292	0.33	0.66	0.00	2.00
P11C10	1. changes: legal problems	292	0.19	0.54	0.00	2.00
P11C11	1. changes: drug/alcohol use	292	0.14	0.48	0.00	2.00
P11C12	1. changes: stress/conflicts	291	0.25	0.57	0.00	2.00
P11C13	1. changes: pregnancies, miscarriages	292	0.11	0.40	0.00	2.00
P11C14	1. changes: job-related stress	292	0.26	0.56	0.00	2.00
P11C15	1. changes: loss of job	292	0.18	0.52	0.00	2.00
P11C16	1. changes: other	292	0.18	0.56	0.00	2.00
P11C17	2. TC reaction to changes	242	2.78	1.18	1.00	5.00
P11C18	p-rating 1. satisfaction w/parent role	293	4.24	1.01	1.00	5.00
P11C19	p-rating 2. child difficulty	293	2.73	0.99	1.00	5.00
P11C20	p-rating 3. parent-child relation	293	4.35	0.81	1.00	5.00
P11C21	p-rating 4. satisfaction child behav	293	3.97	1.06	1.00	5.00
P11C22	i-rating 1. parent description of TC	293	4.21	0.84	1.00	5.00
P11C23	i-rating 2. parent insight about TC	293	3.77	0.92	1.00	5.00
P11C24	i-rating 3. parent affect	293	4.01	0.70	2.00	5.00
P11C25	i-rating 4. parent-child relationship	293	3.89	0.80	1.00	5.00
P11C74	13. TC treated emot/beh difficulties	293	0.12	0.32	0.00	1.00
P11C75	13a. facility where TC treated	34	1.85	0.56	1.00	3.00
P11C76	14. medication to control beh/attent	293	0.06	0.23	0.00	1.00
P11C77	15. respondent received treatment	292	0.09	0.29	0.00	1.00
P11C78	15a. facility where resp treated	27	2.07	0.78	1.00	4.00
P11C79	16. others receive treatment	288	0.13	0.34	0.00	1.00
P11C80	16a. which member was treated	37	2.11	0.31	2.00	3.00

Descriptive Statistics for Subscales - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH11qob	Y11 LC Quality Parent-Child Relat_Observer	114	3.77	0.73	1.75	5.00
LCH11qpr	Y11 LC Quality Parent-Child Relat_Parent	114	3.61	0.77	1.25	5.00
LCH11str	Y11 LC Stress Scale sum score	114	4.15	3.94	0.00	20.00

Descriptive Statistics for Subscales - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH11qob	Y11 LC Quality Parent-Child Relat_Observer	293	3.97	0.69	1.75	5.00
LCH11qpr	Y11 LC Quality Parent-Child Relat_Parent	293	3.96	0.74	1.25	5.00
LCH11str	Y11 LC Stress Scale sum score	292	3.62	3.46	0.00	20.00

VII. Item and Scale Correlations

Item Correlations

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations												
	P11C1	P11C2	P11C3	P11C4	P11C5	P11C6	P11C7	P11C8	P11C9	P11C10	P11C11	P11C12
P11C1 1. changes: moved/major remodeling	1.000 0.733 352	0.018 0.733 352	0.041 0.448 352	0.073 0.172 352	0.125 0.020 350	0.113 0.035 350	0.061 0.253 350	0.110 0.039 352	0.154 0.004 352	0.109 0.042 352	0.186 0.000 352	0.208 0.000 351
P11C2 1. changes: medical problems w/TC	0.018 0.733 352	1.000 0.000 352	0.191 0.000 352	0.015 0.774 352	0.118 0.028 350	0.196 0.000 350	-0.013 0.806 350	0.070 0.190 352	0.207 0.000 352	0.110 0.039 352	0.119 0.026 352	0.131 0.014 351
P11C3 1. changes: medical problems w/family	0.041 0.448 352	0.191 0.000 352	1.000 0.000 352	0.231 0.000 352	0.058 0.279 350	0.025 0.640 350	-0.084 0.116 350	0.105 0.050 352	0.142 0.008 352	0.082 0.125 352	0.081 0.129 352	0.280 0.000 351
P11C4 1. changes: death of important person	0.073 0.172 352	0.015 0.774 352	0.231 0.000 352	1.000 0.000 352	-0.065 0.226 350	-0.073 0.172 350	-0.002 0.972 350	0.036 0.495 352	-0.023 0.667 352	0.072 0.179 352	0.027 0.613 352	0.096 0.074 351
P11C5 1. changes: divorce of TCs parents	0.125 0.020 350	0.118 0.028 350	0.058 0.279 350	-0.065 0.226 350	1.000 0.000 350	0.320 0.000 350	-0.016 0.759 350	0.040 0.455 350	0.105 0.050 350	0.075 0.161 350	0.161 0.003 350	0.117 0.029 349
P11C6 1. changes: separation of TCs parents	0.113 0.035 350	0.196 0.000 350	0.025 0.640 350	-0.073 0.172 350	0.320 0.000 350	1.000 0.000 350	0.046 0.387 350	0.108 0.044 350	0.134 0.012 350	0.080 0.138 350	0.077 0.151 350	0.239 0.000 349
P11C7 1. changes: remarriage/reconciliation	0.061 0.253 350	-0.013 0.806 350	-0.084 0.116 350	-0.002 0.972 350	-0.016 0.759 350	0.046 0.387 350	1.000 0.000 350	0.094 0.078 350	-0.030 0.573 350	-0.045 0.399 350	-0.017 0.753 350	-0.017 0.755 349
P11C8 1. changes: parent/child separation	0.110 0.039 352	0.070 0.190 352	0.105 0.050 352	0.036 0.495 352	0.040 0.455 350	0.108 0.044 350	0.094 0.078 350	1.000 0.000 353	0.190 0.000 353	0.294 0.000 353	0.285 0.000 352	0.158 0.003 351
P11C9 1. changes: financial problems	0.154 0.004 352	0.207 0.000 352	0.142 0.008 352	-0.023 0.667 352	0.105 0.050 350	0.134 0.012 350	-0.030 0.573 350	0.190 0.000 353	1.000 0.000 353	0.330 0.000 353	0.239 0.000 352	0.320 0.000 351
P11C10 1. changes: legal problems	0.109 0.042 352	0.110 0.039 352	0.082 0.125 352	0.072 0.179 352	0.075 0.161 350	0.080 0.138 350	-0.045 0.399 350	0.294 0.000 353	0.330 0.000 353	1.000 0.000 353	0.263 0.000 352	0.427 0.000 351
P11C11 1. changes: drug/alcohol use	0.186 0.000 352	0.119 0.026 352	0.081 0.129 352	0.027 0.613 352	0.161 0.003 350	0.077 0.151 350	-0.017 0.753 350	0.285 0.000 352	0.239 0.000 352	0.263 0.000 352	1.000 0.000 352	0.299 0.000 351
P11C12 1. changes: stress/conflicts	0.208 0.000 351	0.131 0.014 351	0.280 0.000 351	0.096 0.074 351	0.117 0.029 349	0.239 0.000 349	-0.017 0.755 349	0.158 0.003 351	0.320 0.000 351	0.427 0.000 351	0.299 0.000 351	1.000 0.000 351
P11C13 1. changes: pregnancies, miscarriages	-0.051 0.343 352	0.087 0.104 352	0.046 0.388 352	-0.006 0.915 352	-0.006 0.912 350	-0.033 0.541 350	-0.036 0.502 350	0.033 0.541 352	0.102 0.055 352	0.040 0.449 352	0.071 0.184 352	-0.009 0.871 351
P11C14 1. changes: job-related stress	0.015 0.783 352	0.095 0.074 352	0.094 0.079 352	0.074 0.168 352	-0.061 0.254 350	-0.001 0.978 350	0.019 0.717 350	0.146 0.006 353	0.134 0.011 353	0.188 0.000 353	0.077 0.152 352	0.119 0.026 351
P11C15 1. changes: loss of job	0.148 0.005 352	0.014 0.796 352	0.073 0.174 352	0.090 0.094 352	0.052 0.332 350	0.162 0.002 350	0.044 0.410 350	0.085 0.112 352	0.308 0.000 352	0.205 0.000 352	-0.021 0.692 352	0.097 0.069 351
P11C16 1. changes: other	0.009 0.868 352	-0.002 0.972 352	0.003 0.949 352	0.061 0.252 352	-0.041 0.441 350	-0.062 0.250 350	-0.042 0.432 350	0.204 0.000 352	-0.028 0.599 352	0.152 0.004 352	0.095 0.076 352	-0.017 0.751 351

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations												
	P11C1	P11C2	P11C3	P11C4	P11C5	P11C6	P11C7	P11C8	P11C9	P11C10	P11C11	P11C12
P11C17 2. TC reaction to changes	0.016 0.788 296	-0.097 0.094 296	-0.082 0.159 296	-0.061 0.299 296	0.106 0.071 294	-0.111 0.058 294	-0.006 0.912 294	-0.058 0.320 297	-0.069 0.235 297	0.038 0.520 297	-0.030 0.603 296	-0.002 0.976 295
P11C18 p-rating 1. satisfaction w/parent role	-0.061 0.253 352	-0.141 0.008 352	0.007 0.901 352	0.042 0.431 352	0.038 0.474 350	0.031 0.567 350	-0.039 0.462 350	-0.092 0.085 353	-0.155 0.003 353	-0.081 0.131 353	-0.151 0.004 352	0.062 0.249 351
P11C19 p-rating 2. child difficulty	-0.026 0.626 352	0.069 0.198 352	0.043 0.421 352	-0.030 0.569 352	0.042 0.434 350	0.070 0.194 350	0.066 0.219 350	0.069 0.196 353	0.061 0.250 353	0.043 0.423 353	0.158 0.003 352	0.096 0.072 351
P11C20 p-rating 3. parent-child relation	-0.059 0.269 352	-0.094 0.078 352	-0.017 0.744 352	0.064 0.234 352	-0.052 0.329 350	-0.095 0.074 350	-0.052 0.333 350	-0.088 0.099 353	-0.152 0.004 353	-0.081 0.128 353	-0.188 0.000 352	-0.054 0.311 351
P11C21 p-rating 4. satisfaction child behav	-0.147 0.006 352	-0.123 0.021 352	-0.012 0.823 352	0.049 0.357 352	-0.116 0.029 350	-0.084 0.118 350	-0.074 0.169 350	-0.184 0.001 353	-0.196 0.000 353	-0.115 0.031 353	-0.273 0.000 352	-0.099 0.063 351
P11C22 i-rating 1. parent description of TC	-0.088 0.100 352	-0.065 0.221 352	0.028 0.602 352	0.029 0.594 352	-0.007 0.893 350	-0.063 0.240 350	-0.091 0.088 350	-0.121 0.023 353	-0.075 0.162 353	-0.068 0.201 353	-0.186 0.000 352	-0.047 0.377 351
P11C23 i-rating 2. parent insight about TC	-0.189 0.000 352	-0.021 0.695 352	-0.021 0.694 352	-0.045 0.398 352	-0.032 0.554 350	-0.028 0.596 350	-0.052 0.336 350	0.043 0.416 353	-0.092 0.085 353	-0.036 0.496 353	-0.062 0.245 352	-0.098 0.068 351
P11C24 i-rating 3. parent affect	-0.166 0.002 352	-0.044 0.409 352	0.032 0.554 352	0.039 0.461 352	-0.010 0.849 350	-0.037 0.490 350	-0.075 0.161 350	-0.034 0.520 353	-0.077 0.148 353	-0.056 0.298 353	-0.172 0.001 352	-0.023 0.664 351
P11C25 i-rating 4. parent-child relationship	-0.091 0.087 352	-0.016 0.770 352	-0.012 0.826 352	-0.012 0.823 352	-0.053 0.323 350	-0.068 0.201 350	-0.047 0.382 350	-0.023 0.663 353	-0.126 0.017 353	-0.057 0.289 353	-0.153 0.004 352	0.011 0.839 351
P11C74 13. TC treated emot/beh difficulties	0.118 0.027 352	0.262 0.000 352	0.080 0.133 352	-0.048 0.374 352	0.171 0.001 350	0.125 0.020 350	0.017 0.754 350	0.319 0.000 353	0.145 0.006 353	0.167 0.002 353	0.362 0.000 352	0.160 0.003 351
P11C75 13a. facility where TC treated	-0.035 0.814 49	-0.176 0.226 49	-0.076 0.604 49	0.039 0.790 49	-0.248 0.089 48	-0.067 0.652 48	0.032 0.827 48	-0.319 0.025 49	-0.147 0.312 49	-0.078 0.594 49	0.027 0.852 49	-0.236 0.103 49
P11C76 14. medication to control beh/attent	0.054 0.316 352	0.158 0.003 352	0.149 0.005 352	-0.040 0.457 352	0.061 0.256 350	0.012 0.823 350	0.053 0.322 350	0.100 0.061 353	0.128 0.016 353	0.064 0.230 353	0.042 0.437 352	0.080 0.133 351
P11C77 15. respondent received treatment	0.049 0.356 352	0.074 0.168 352	0.133 0.013 352	0.048 0.366 352	0.119 0.026 350	0.155 0.004 350	0.030 0.570 350	0.090 0.092 353	0.213 0.000 353	0.187 0.000 353	0.182 0.001 352	0.332 0.000 351
P11C78 15a. facility where resp treated	-0.096 0.566 38	-0.147 0.379 38	0.058 0.729 38	-0.198 0.232 38	-0.081 0.629 38	-0.118 0.482 38	-0.056 0.737 38	0.293 0.075 38	0.027 0.874 38	-0.170 0.307 38	0.108 0.520 38	-0.212 0.200 38
P11C79 16. others receive treatment	0.066 0.217 348	0.128 0.017 348	0.054 0.319 348	-0.038 0.481 348	0.029 0.587 346	0.086 0.112 346	0.023 0.674 346	0.041 0.449 349	0.107 0.045 349	0.002 0.972 349	0.158 0.003 348	0.102 0.059 347
P11C80 16a. which member was treated	-0.002 0.989 43	-0.020 0.898 43	0.388 0.010 43	0.051 0.747 43	-0.056 0.721 43	-0.099 0.526 43	-0.056 0.721 43	-0.044 0.782 43	0.207 0.184 43	-0.125 0.424 43	0.199 0.200 43	0.087 0.578 43

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P11C13	P11C14	P11C15	P11C16	P11C17	P11C18	P11C19	P11C20	P11C21	P11C22
P11C1 1. changes: moved/major remodeling	-0.051 0.343 352	0.015 0.783 352	0.148 0.005 352	0.009 0.868 352	0.016 0.788 296	-0.061 0.253 352	-0.026 0.626 352	-0.059 0.269 352	-0.147 0.006 352	-0.088 0.100 352
P11C2 1. changes: medical problems w/TC	0.087 0.104 352	0.095 0.074 352	0.014 0.796 352	-0.002 0.972 352	-0.097 0.094 296	-0.141 0.008 352	0.069 0.198 352	-0.094 0.078 352	-0.123 0.021 352	-0.065 0.221 352
P11C3 1. changes: medical problems w/family	0.046 0.388 352	0.094 0.079 352	0.073 0.174 352	0.003 0.949 352	-0.082 0.159 296	0.007 0.901 352	0.043 0.421 352	-0.017 0.744 352	-0.012 0.823 352	0.028 0.602 352
P11C4 1. changes: death of important person	-0.006 0.915 352	0.074 0.168 352	0.090 0.094 352	0.061 0.252 352	-0.061 0.299 296	0.042 0.431 352	-0.030 0.569 352	0.064 0.234 352	0.049 0.357 352	0.029 0.594 352
P11C5 1. changes: divorce of TCs parents	-0.006 0.912 350	-0.061 0.254 350	0.052 0.332 350	-0.041 0.441 350	0.106 0.071 294	0.038 0.474 350	0.042 0.434 350	-0.052 0.329 350	-0.116 0.029 350	-0.007 0.893 350
P11C6 1. changes: separation of TCs parents	-0.033 0.541 350	-0.001 0.978 350	0.162 0.002 350	-0.062 0.250 350	-0.111 0.058 294	0.031 0.567 350	0.070 0.194 350	-0.095 0.074 350	-0.084 0.118 350	-0.063 0.240 350
P11C7 1. changes: remarriage/reconciliation	-0.036 0.502 350	0.019 0.717 350	0.044 0.410 350	-0.042 0.432 350	-0.006 0.912 294	-0.039 0.462 350	0.066 0.219 350	-0.052 0.333 350	-0.074 0.169 350	-0.091 0.088 350
P11C8 1. changes: parent/child separation	0.033 0.541 352	0.146 0.006 353	0.085 0.112 352	0.204 0.000 352	-0.058 0.320 297	-0.092 0.085 353	0.069 0.196 353	-0.088 0.099 353	-0.184 0.001 353	-0.121 0.023 353
P11C9 1. changes: financial problems	0.102 0.055 352	0.134 0.011 353	0.308 0.000 352	-0.028 0.599 352	-0.069 0.235 297	-0.155 0.003 353	0.061 0.250 353	-0.152 0.004 353	-0.196 0.000 353	-0.075 0.162 353
P11C10 1. changes: legal problems	0.040 0.449 352	0.188 0.000 353	0.205 0.000 352	0.152 0.004 352	0.038 0.520 297	-0.081 0.131 353	0.043 0.423 353	-0.081 0.128 353	-0.115 0.031 353	-0.068 0.201 353
P11C11 1. changes: drug/alcohol use	0.071 0.184 352	0.077 0.152 352	-0.021 0.692 352	0.095 0.076 352	-0.030 0.603 296	-0.151 0.004 352	0.158 0.003 352	-0.188 0.000 352	-0.273 0.000 352	-0.186 0.000 352
P11C12 1. changes: stress/conflicts	-0.009 0.871 351	0.119 0.026 351	0.097 0.069 351	-0.017 0.751 351	-0.002 0.976 295	0.062 0.249 351	0.096 0.072 351	-0.054 0.311 351	-0.099 0.063 351	-0.047 0.377 351
P11C13 1. changes: pregnancies, miscarriages	1.000 352	0.108 0.042 352	0.030 0.580 352	-0.092 0.086 352	0.158 0.006 296	-0.061 0.253 352	0.057 0.283 352	-0.061 0.255 352	-0.068 0.206 352	-0.049 0.360 352
P11C14 1. changes: job-related stress	0.108 0.042 352	1.000 353	0.303 0.000 352	0.179 0.001 352	-0.139 0.016 297	-0.031 0.557 353	0.016 0.766 353	-0.028 0.598 353	-0.033 0.539 353	-0.033 0.530 353
P11C15 1. changes: loss of job	0.030 0.580 352	0.303 0.000 352	1.000 352	-0.014 0.788 352	-0.069 0.239 296	-0.051 0.340 352	-0.037 0.492 352	-0.061 0.257 352	-0.117 0.028 352	0.002 0.966 352
P11C16 1. changes: other	-0.092 0.086 352	0.179 0.001 352	-0.014 0.788 352	1.000 352	0.033 0.575 296	-0.043 0.418 352	-0.042 0.428 352	0.014 0.793 352	0.027 0.616 352	0.058 0.276 352
P11C17 2. TC reaction to changes	0.158 0.006 296	-0.139 0.016 297	-0.069 0.239 296	0.033 0.575 296	1.000 297	0.088 0.129 297	-0.033 0.577 297	0.080 0.168 297	0.080 0.169 297	0.011 0.856 297

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P11C13	P11C14	P11C15	P11C16	P11C17	P11C18	P11C19	P11C20	P11C21	P11C22
P11C18 p-rating 1. satisfaction w/parent role	-0.061 0.253 352	-0.031 0.557 353	-0.051 0.340 352	-0.043 0.418 352	0.088 0.129 297	1.000 0.000 354	-0.263 0.000 354	0.408 0.000 354	0.420 0.000 354	0.400 0.000 354
P11C19 p-rating 2. child difficulty	0.057 0.283 352	0.016 0.766 353	-0.037 0.492 352	-0.042 0.428 352	-0.033 0.577 297	-0.263 0.000 354	1.000 0.000 354	-0.493 0.000 354	-0.531 0.000 354	-0.494 0.000 354
P11C20 p-rating 3. parent-child relation	-0.061 0.255 352	-0.028 0.598 353	-0.061 0.257 352	0.014 0.793 352	0.080 0.168 297	0.408 0.000 354	-0.493 0.000 354	1.000 0.000 354	0.661 0.000 354	0.616 0.000 354
P11C21 p-rating 4. satisfaction child behav	-0.068 0.206 352	-0.033 0.539 353	-0.117 0.028 352	0.027 0.616 352	0.080 0.169 297	0.420 0.000 354	-0.531 0.000 354	0.661 0.000 354	1.000 0.000 354	0.665 0.000 354
P11C22 i-rating 1. parent description of TC	-0.049 0.360 352	-0.033 0.530 353	0.002 0.966 352	0.058 0.276 352	0.011 0.856 297	0.400 0.000 354	-0.494 0.000 354	0.616 0.000 354	0.665 0.000 354	1.000 0.000 354
P11C23 i-rating 2. parent insight about TC	-0.084 0.115 352	0.030 0.573 353	-0.034 0.530 352	0.149 0.005 352	-0.079 0.173 297	0.224 0.000 354	-0.255 0.000 354	0.349 0.000 354	0.344 0.000 354	0.542 0.000 354
P11C24 i-rating 3. parent affect	-0.087 0.104 352	0.034 0.526 353	0.004 0.938 352	0.085 0.112 352	-0.061 0.293 297	0.293 0.000 354	-0.442 0.000 354	0.509 0.000 354	0.530 0.000 354	0.718 0.000 354
P11C25 i-rating 4. parent-child relationship	-0.084 0.116 352	0.062 0.247 353	-0.052 0.328 352	0.056 0.293 352	-0.007 0.900 297	0.330 0.000 354	-0.379 0.000 354	0.483 0.000 354	0.507 0.000 354	0.689 0.000 354
P11C74 13. TC treated emot/beh difficulties	0.041 0.442 352	0.131 0.014 353	0.110 0.039 352	0.079 0.139 352	-0.096 0.097 297	-0.179 0.001 354	0.193 0.000 354	-0.168 0.002 354	-0.332 0.000 354	-0.191 0.000 354
P11C75 13a. facility where TC treated	-0.068 0.642 49	-0.009 0.952 49	-0.156 0.283 49	0.312 0.029 49	-0.350 0.020 44	0.090 0.532 50	-0.235 0.100 50	-0.133 0.358 50	-0.053 0.716 50	0.166 0.250 50
P11C76 14. medication to control beh/attent	-0.003 0.961 352	0.051 0.344 353	0.108 0.042 352	-0.053 0.321 352	-0.044 0.450 297	-0.122 0.022 354	0.175 0.001 354	-0.098 0.065 354	-0.245 0.000 354	-0.147 0.006 354
P11C77 15. respondent received treatment	0.031 0.559 352	0.131 0.014 353	0.227 0.000 352	-0.030 0.570 352	-0.083 0.151 297	-0.060 0.264 353	0.090 0.093 353	-0.063 0.241 353	-0.166 0.002 353	-0.050 0.345 353
P11C78 15a. facility where resp treated	0.324 0.048 38	0.400 0.013 38	-0.145 0.385 38	-0.218 0.188 38	-0.116 0.534 31	0.018 0.915 38	-0.071 0.672 38	-0.076 0.650 38	-0.010 0.954 38	-0.180 0.279 38
P11C79 16. others receive treatment	-0.001 0.980 348	0.022 0.685 349	0.027 0.616 348	0.061 0.254 348	-0.031 0.593 293	-0.039 0.472 349	0.070 0.189 349	-0.050 0.348 349	-0.130 0.015 349	-0.033 0.533 349
P11C80 16a. which member was treated	0.233 0.133 43	0.182 0.242 43	-0.128 0.413 43	-0.143 0.361 43	0.222 0.174 39	-0.037 0.813 43	-0.052 0.742 43	0.022 0.889 43	0.023 0.882 43	-0.027 0.862 43

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P11C23	P11C24	P11C25	P11C74	P11C75	P11C76	P11C77	P11C78	P11C79	P11C80
P11C1 1. changes: moved/major remodeling	-0.189 0.000 352	-0.166 0.002 352	-0.091 0.087 352	0.118 0.027 352	-0.035 0.814 49	0.054 0.316 352	0.049 0.356 352	-0.096 0.566 38	0.066 0.217 348	-0.002 0.989 43
P11C2 1. changes: medical problems w/TC	-0.021 0.695 352	-0.044 0.409 352	-0.016 0.770 352	0.262 0.000 352	-0.176 0.226 49	0.158 0.003 352	0.074 0.168 352	-0.147 0.379 38	0.128 0.017 348	-0.020 0.898 43
P11C3 1. changes: medical problems w/family	-0.021 0.694 352	0.032 0.554 352	-0.012 0.826 352	0.080 0.133 352	-0.076 0.604 49	0.149 0.005 352	0.133 0.013 352	0.058 0.729 38	0.054 0.319 348	0.388 0.010 43
P11C4 1. changes: death of important person	-0.045 0.398 352	0.039 0.461 352	-0.012 0.823 352	-0.048 0.374 352	0.039 0.790 49	-0.040 0.457 352	0.048 0.366 352	-0.198 0.232 38	-0.038 0.481 348	0.051 0.747 43
P11C5 1. changes: divorce of TCs parents	-0.032 0.554 350	-0.010 0.849 350	-0.053 0.323 350	0.171 0.001 350	-0.248 0.089 48	0.061 0.256 350	0.119 0.026 350	-0.081 0.629 38	0.029 0.587 346	-0.056 0.721 43
P11C6 1. changes: separation of TCs parents	-0.028 0.596 350	-0.037 0.490 350	-0.068 0.201 350	0.125 0.020 350	-0.067 0.652 48	0.012 0.823 350	0.155 0.004 350	-0.118 0.482 38	0.086 0.112 346	-0.099 0.526 43
P11C7 1. changes: remarriage/reconciliation	-0.052 0.336 350	-0.075 0.161 350	-0.047 0.382 350	0.017 0.754 350	0.032 0.827 48	0.053 0.322 350	0.030 0.570 350	-0.056 0.737 38	0.023 0.674 346	-0.056 0.721 43
P11C8 1. changes: parent/child separation	0.043 0.416 353	-0.034 0.520 353	-0.023 0.663 353	0.319 0.000 353	-0.319 0.025 49	0.100 0.061 353	0.090 0.092 353	0.293 0.075 38	0.041 0.449 349	-0.044 0.782 43
P11C9 1. changes: financial problems	-0.092 0.085 353	-0.077 0.148 353	-0.126 0.017 353	0.145 0.006 353	-0.147 0.312 49	0.128 0.016 353	0.213 0.000 353	0.027 0.874 38	0.107 0.045 349	0.207 0.184 43
P11C10 1. changes: legal problems	-0.036 0.496 353	-0.056 0.298 353	-0.057 0.289 353	0.167 0.002 353	-0.078 0.594 49	0.064 0.230 353	0.187 0.000 353	-0.170 0.307 38	0.002 0.972 349	-0.125 0.424 43
P11C11 1. changes: drug/alcohol use	-0.062 0.245 352	-0.172 0.001 352	-0.153 0.004 352	0.362 0.000 352	0.027 0.852 49	0.042 0.437 352	0.182 0.001 352	0.108 0.520 38	0.158 0.003 348	0.199 0.200 43
P11C12 1. changes: stress/conflicts	-0.098 0.068 351	-0.023 0.664 351	0.011 0.839 351	0.160 0.003 351	-0.236 0.103 49	0.080 0.133 351	0.332 0.000 351	-0.212 0.200 38	0.102 0.059 347	0.087 0.578 43
P11C13 1. changes: pregnancies, miscarriages	-0.084 0.115 352	-0.087 0.104 352	-0.084 0.116 352	0.041 0.442 352	-0.068 0.642 49	-0.003 0.961 352	0.031 0.559 352	0.324 0.048 38	-0.001 0.980 348	0.233 0.133 43
P11C14 1. changes: job-related stress	0.030 0.573 353	0.034 0.526 353	0.062 0.247 353	0.131 0.014 353	-0.009 0.952 49	0.051 0.344 353	0.131 0.014 353	0.400 0.013 38	0.022 0.685 349	0.182 0.242 43
P11C15 1. changes: loss of job	-0.034 0.530 352	0.004 0.938 352	-0.052 0.328 352	0.110 0.039 352	-0.156 0.283 49	0.108 0.042 352	0.227 0.000 352	-0.145 0.385 38	0.027 0.616 348	-0.128 0.413 43
P11C16 1. changes: other	0.149 0.005 352	0.085 0.112 352	0.056 0.293 352	0.079 0.139 352	0.312 0.029 49	-0.053 0.321 352	-0.030 0.570 352	-0.218 0.188 38	0.061 0.254 348	-0.143 0.361 43
P11C17 2. TC reaction to changes	-0.079 0.173 297	-0.061 0.293 297	-0.007 0.900 297	-0.096 0.097 297	-0.350 0.020 44	-0.044 0.450 297	-0.083 0.151 297	-0.116 0.534 31	-0.031 0.593 293	0.222 0.174 39

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P11C23	P11C24	P11C25	P11C74	P11C75	P11C76	P11C77	P11C78	P11C79	P11C80
P11C18 p-rating 1. satisfaction w/parent role	0.224 0.000 354	0.293 0.000 354	0.330 0.000 354	-0.179 0.001 354	0.090 0.532 50	-0.122 0.022 354	-0.060 0.264 353	0.018 0.915 38	-0.039 0.472 349	-0.037 0.813 43
P11C19 p-rating 2. child difficulty	-0.255 0.000 354	-0.442 0.000 354	-0.379 0.000 354	0.193 0.000 354	-0.235 0.100 50	0.175 0.001 354	0.090 0.093 353	-0.071 0.672 38	0.070 0.189 349	-0.052 0.742 43
P11C20 p-rating 3. parent-child relation	0.349 0.000 354	0.509 0.000 354	0.483 0.000 354	-0.168 0.002 354	-0.133 0.358 50	-0.098 0.065 354	-0.063 0.241 353	-0.076 0.650 38	-0.050 0.348 349	0.022 0.889 43
P11C21 p-rating 4. satisfaction child behav	0.344 0.000 354	0.530 0.000 354	0.507 0.000 354	-0.332 0.000 354	-0.053 0.716 50	-0.245 0.000 354	-0.166 0.002 353	-0.010 0.954 38	-0.130 0.015 349	0.023 0.882 43
P11C22 i-rating 1. parent description of TC	0.542 0.000 354	0.718 0.000 354	0.689 0.000 354	-0.191 0.000 354	0.166 0.250 50	-0.147 0.006 354	-0.050 0.345 353	-0.180 0.279 38	-0.033 0.533 349	-0.027 0.862 43
P11C23 i-rating 2. parent insight about TC	1.000 0.000 354	0.586 0.000 354	0.590 0.000 354	0.039 0.462 354	0.167 0.247 50	0.026 0.624 354	-0.018 0.740 353	-0.008 0.961 38	0.045 0.405 349	-0.094 0.548 43
P11C24 i-rating 3. parent affect	0.586 0.000 354	1.000 0.000 354	0.742 0.000 354	-0.110 0.038 354	0.235 0.101 50	-0.101 0.058 354	-0.032 0.547 353	-0.083 0.620 38	0.033 0.535 349	-0.012 0.941 43
P11C25 i-rating 4. parent-child relationship	0.590 0.000 354	0.742 0.000 354	1.000 0.000 354	-0.107 0.043 354	0.016 0.912 50	-0.047 0.378 354	-0.101 0.058 353	0.027 0.872 38	0.028 0.602 349	-0.055 0.727 43
P11C74 13. TC treated emot/beh difficulties	0.039 0.462 354	-0.110 0.038 354	-0.107 0.043 354	1.000 0.000 354	. . 50	0.525 0.000 354	0.310 0.000 353	-0.021 0.900 38	0.125 0.020 349	-0.213 0.171 43
P11C75 13a. facility where TC treated	0.167 0.247 50	0.235 0.101 50	0.016 0.912 50	. . 50	1.000 . 50	-0.219 0.126 50	0.006 0.966 49	0.317 0.214 17	0.206 0.156 49	. . 11
P11C76 14. medication to control beh/attent	0.026 0.624 354	-0.101 0.058 354	-0.047 0.378 354	0.525 0.000 354	-0.219 0.126 50	1.000 . 354	0.182 0.001 353	0.103 0.537 38	0.133 0.013 349	-0.160 0.306 43
P11C77 15. respondent received treatment	-0.018 0.740 353	-0.032 0.547 353	-0.101 0.058 353	0.310 0.000 353	0.006 0.966 49	0.182 0.001 353	1.000 . 353	. . 38	0.205 0.000 349	-0.064 0.684 43
P11C78 15a. facility where resp treated	-0.008 0.961 38	-0.083 0.620 38	0.027 0.872 38	-0.021 0.900 38	0.317 0.214 17	0.103 0.537 38	. . 38	1.000 . 38	-0.295 0.073 38	0.091 0.779 12
P11C79 16. others receive treatment	0.045 0.405 349	0.033 0.535 349	0.028 0.602 349	0.125 0.020 349	0.206 0.156 49	0.133 0.013 349	0.205 0.000 349	-0.295 0.073 38	1.000 . 349	. . 43
P11C80 16a. which member was treated	-0.094 0.548 43	-0.012 0.941 43	-0.055 0.727 43	-0.213 0.171 43	. . 11	-0.160 0.306 43	-0.064 0.684 43	0.091 0.779 12	. . 43	1.000 . 43

Scale Correlations

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations			
	LCH11qob	LCH11qpr	LCH11str
LCH11qob Y11 LC Quality Parent-Child Relat_Observer	1.000 354	0.642 0.000 354	-0.116 0.030 353
LCH11qpr Y11 LC Quality Parent-Child Relat_Parent	0.642 0.000 354	1.000 354	-0.195 0.000 353
LCH11str Y11 LC Stress Scale sum score	-0.116 0.030 353	-0.195 0.000 353	1.000 353

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