

Life Changes
Grade 4/Year 5
Fast Track Project Technical Report
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November 15, 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: P5C

Scored: LCH5

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 fifth year of the study. Overall, 43 records were missing the whole measure. 14 were missing from the control sample (3 from Durham, 1 from Nashville, 6 from Pennsylvania, and 4 from Washington) and 37 were missing from the normative sample (6 from Durham, 10 from Nashville, 12 from Pennsylvania, and 9 from Washington).

In addition, it should be noted that 370 records were missing 3 or more items; of these, 80 were from the control sample (25 from Durham, 19 from Nashville, 17 from Pennsylvania, and 19 from Washington) and 269 were from the normative sample (76 from Durham, 61 from Nashville, 69 from Pennsylvania, and 63 from Washington); a number of these were from the overlap sample.

Three items in particular were missing responses: what type of treatment facility the child had used for emotional or behavioral difficulties in the past year (349 missing), what type of treatment facility the respondent had used in the past year (358 missing) and which other member of the family had received treatment (367 missing).

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
Y5 LC Quality Parent-Child Relat_ Observ (LCH5qob)	0.88	0.87
Y5 LC Quality Parent-Child Relat_Parent (LCH5qpr)	0.72	0.74
Y5 LC Stress Scale sum score (LCH5str)	0.66	0.67

Both the *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version* showed a high reliability for internal consistency for both the normative and control samples. The last subscale, the *Stress Scale Sum Score*, showed a moderate reliability for internal consistency for both samples.

IV. Differences Between Groups

A series of t-tests indicated significant differences between the normative and control samples for all of the subscales. The mean for the normative sample was greater than the mean for the control sample for the *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version*, while the control mean was higher for the *Stress Scale*. Both the parents and the interviewers in the normative sample were reporting that parents in the normative sample had warmer, closer relationships with their child than did parents and observers in the control sample.

Two of the 8 items not included in the scales also indicated significant differences between the normative and control samples: whether the child had received treatment for emotional or behavioral difficulties (P5C74) and whether the child had received medication for to control behavior or attention (P5C76).

Comparison of Means for Normative and Control for Scales							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
Y5 LC Quality Parent-Child Relat_ Observer (LCH5qob)	3.91	0.73	3.63	0.80	418	-3.62	0.0003
Y5 LC Quality Parent-Child Relat_Parent (LCH5qpr)	4.09	0.59	3.63	0.70	244	-6.65	<.0001
Y5 LC Stress Scale sum score (LCH5str)	3.82	3.53	5.16	4.28	238	3.19	0.0016

Comparison of Means for Normative and Control for Items							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
TC: reaction to changes (P5C17)	2.85	1.17	2.91	1.22	395	0.49	0.6255
TC receive Tx for emot. diff. (P5C74)	0.06	0.25	0.31	0.46	181	5.92	<.0001
Type of Tx facility-TC (P5C75)	1.76	1.05	2.15	0.67	34.7	1.69	0.1001
TC receive Rx for behav./attn. prob. (P5C76)	0.03	0.16	0.25	0.43	159	5.91	<.0001

Comparison of Means for Normative and Control for Items								
Variable	Normative		Control		DF	t Value	Pr > t	
	Mean	Std Dev	Mean	Std Dev				
Respondent receive Tx (P5C77)	0.12	0.32	0.18	0.38	238	1.68	0.0938	
Type of Tx facility-Respondent (P5C78)	2.53	1.16	2.35	0.85	60	-0.68	0.4999	
Others in family receive Tx (P5C79)	0.10	0.31	0.16	0.37	239	1.62	0.1059	
Which other family-Tx (P5C80)	2.41	0.63	2.21	0.51	51	-1.29	0.2029	

V. Recommendations for Use

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

Several items in the normative sample were also positively skewed. These were whether the child had received treatment for emotional or behavioral difficulties (P5C74), whether the child had received medication for to control behavior or attention (P5C76), whether the respondent had received treatment during the past year for personal or emotional difficulties (P5C77), and whether anyone else in the household had received treatment during the past year for emotional or behavioral difficulties (P5C79). The other items in the normative sample were fairly normally distributed.

Finally, most of the items in the control sample were fairly normally distributed. However, two items were slightly and positively skewed. They were whether the respondent had received treatment during the past year for personal or emotional difficulties (P5C77) and whether anyone else in the household had received treatment during the past year for emotional or behavioral difficulties (P5C79).

VI. Item and Scale Means and SDs

Descriptive Statistics for Items - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P5C1	Changes: moved/major remodeling	141	0.59	0.82	0.00	2.00
P5C2	Changes: medical problems w/TC	141	0.25	0.59	0.00	2.00
P5C3	Changes: medical problems w/family	141	0.61	0.86	0.00	2.00
P5C4	Changes: death of important person	141	0.38	0.72	0.00	2.00
P5C5	Changes: divorce of TC's parents	141	0.07	0.33	0.00	2.00
P5C6	Changes: separation of TC's parents	141	0.18	0.53	0.00	2.00
P5C7	Changes: remarriage/reconciliation	141	0.13	0.44	0.00	2.00
P5C8	Changes: parent/child separation	141	0.32	0.65	0.00	2.00
P5C9	Changes: financial problems	141	0.53	0.73	0.00	2.00
P5C10	Changes: legal problems	141	0.19	0.57	0.00	2.00
P5C11	Changes: drug/alcohol use	141	0.24	0.62	0.00	2.00
P5C12	Changes: stress/conflicts	141	0.54	0.77	0.00	2.00
P5C13	Changes: pregnancies/miscarriages	141	0.15	0.49	0.00	2.00
P5C14	Changes: job-related stress	141	0.43	0.73	0.00	2.00
P5C15	Changes: loss of job	141	0.25	0.61	0.00	2.00
P5C16	Changes: other	124	0.28	0.67	0.00	2.00
P5C17	TC: reaction to changes	136	2.91	1.22	1.00	5.00
P5C18	p-rating #1: satisfaction w/parent role	141	4.04	0.95	1.00	5.00
P5C19	p-rating #2: child difficulty	141	3.11	0.97	1.00	5.00
P5C20	p-rating #3: parent-child relationship	141	4.09	0.85	1.00	5.00
P5C21	p-rating #4: satisfaction child behav	141	3.51	0.95	1.00	5.00
P5C22	i-rating #1: parent description of TC	141	3.83	0.99	1.00	5.00
P5C23	i-rating #2: parent insight about TC	141	3.45	1.02	1.00	5.00
P5C24	i-rating #3: parent affect	141	3.76	0.84	1.00	5.00
P5C25	i-rating #4: parent-child relationship	141	3.50	0.92	1.00	5.00
P5C74	TC receive Tx for emot. diff.	141	0.31	0.46	0.00	1.00
P5C75	Type of Tx facility-TC	46	2.15	0.67	0.00	3.00
P5C76	TC receive Rx for behav./attn. prob.	141	0.25	0.43	0.00	1.00
P5C77	Respondent receive Tx	140	0.18	0.38	0.00	1.00
P5C78	Type of Tx facility-Respondent	26	2.35	0.85	1.00	4.00
P5C79	Others in family receive Tx	141	0.16	0.37	0.00	1.00
P5C80	Which other family-Tx	24	2.21	0.51	1.00	3.00

Descriptive Statistics for Items - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P5C1	Changes: moved/major remodeling	350	0.48	0.77	0.00	2.00
P5C2	Changes: medical problems w/TC	350	0.25	0.57	0.00	2.00
P5C3	Changes: medical problems w/family	350	0.53	0.80	0.00	2.00
P5C4	Changes: death of important person	350	0.43	0.76	0.00	2.00
P5C5	Changes: divorce of TC's parents	350	0.03	0.24	0.00	2.00
P5C6	Changes: separation of TC's parents	350	0.14	0.47	0.00	2.00
P5C7	Changes: remarriage/reconciliation	350	0.05	0.30	0.00	2.00
P5C8	Changes: parent/child separation	350	0.26	0.59	0.00	2.00
P5C9	Changes: financial problems	350	0.42	0.70	0.00	2.00
P5C10	Changes: legal problems	350	0.13	0.47	0.00	2.00
P5C11	Changes: drug/alcohol use	350	0.14	0.48	0.00	2.00
P5C12	Changes: stress/conflicts	350	0.37	0.68	0.00	2.00
P5C13	Changes: pregnancies/miscarriages	350	0.12	0.45	0.00	2.00
P5C14	Changes: job-related stress	350	0.35	0.66	0.00	2.00
P5C15	Changes: loss of job	350	0.16	0.49	0.00	2.00
P5C16	Changes: other	320	0.26	0.64	0.00	2.00
P5C17	TC: reaction to changes	330	2.86	1.19	1.00	5.00
P5C18	p-rating #1: satisfaction w/parent role	350	4.39	0.89	1.00	5.00
P5C19	p-rating #2: child difficulty	350	2.79	0.96	1.00	5.00
P5C20	p-rating #3: parent-child relationship	350	4.41	0.78	1.00	5.00
P5C21	p-rating #4: satisfaction child behav	350	3.95	0.91	1.00	5.00
P5C22	i-rating #1: parent description of TC	350	4.11	0.86	1.00	5.00
P5C23	i-rating #2: parent insight about TC	350	3.59	0.96	1.00	5.00
P5C24	i-rating #3: parent affect	350	3.92	0.80	1.00	5.00
P5C25	i-rating #4: parent-child relationship	349	3.73	0.91	2.00	5.00
P5C74	TC receive Tx for emot. diff.	350	0.10	0.30	0.00	1.00
P5C75	Type of Tx facility-TC	43	1.98	0.91	0.00	3.00
P5C76	TC receive Rx for behav./attn. prob.	348	0.06	0.24	0.00	1.00
P5C77	Respondent receive Tx	348	0.13	0.33	0.00	1.00
P5C78	Type of Tx facility-Respondent	48	2.48	1.07	0.00	4.00
P5C79	Others in family receive Tx	349	0.12	0.32	0.00	1.00
P5C80	Which other family-Tx	41	2.37	0.58	1.00	3.00

Descriptive Statistics for Subscales - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH5qob	Y5 LC Quality Parent-Child Relat_Observer	141	3.63	0.80	1.50	5.00
LCH5qpr	Y5 LC Quality Parent-Child Relat_Parent	141	3.63	0.70	1.25	5.00
LCH5str	Y5 LC Stress Scale sum score	141	5.16	4.28	0.00	18.13

Descriptive Statistics for Subscales - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH5qob	Y5 LC Quality Parent-Child Relat_Observer	350	3.84	0.76	1.75	5.00
LCH5qpr	Y5 LC Quality Parent-Child Relat_Parent	350	3.99	0.65	1.25	5.00
LCH5str	Y5 LC Stress Scale sum score	350	4.12	3.76	0.00	18.00

VII. Item and Scale Correlations

Item Correlations

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P5C1	P5C2	P5C3	P5C4	P5C5	P5C6	P5C7	P5C8	P5C9	P5C10	P5C11
P5C1 Changes: moved/major remodeling	1.000 420	0.131 0.007 420	0.072 0.140 420	-0.003 0.944 420	0.046 0.352 420	0.119 0.014 420	0.043 0.377 420	0.111 0.022 420	0.179 0.000 420	0.173 0.000 420	0.103 0.035 420
P5C2 Changes: medical problems w/TC	0.131 0.007 420	1.000 420	0.085 0.082 420	-0.083 0.088 420	0.092 0.059 420	0.003 0.945 420	-0.013 0.789 420	0.090 0.065 420	0.064 0.190 420	0.185 0.000 420	0.051 0.296 420
P5C3 Changes: medical problems w/family	0.072 0.140 420	0.085 0.082 420	1.000 420	0.203 0.000 420	0.072 0.142 420	0.092 0.060 420	-0.060 0.219 420	0.179 0.000 420	0.217 0.000 420	0.150 0.002 420	0.082 0.092 420
P5C4 Changes: death of important person	-0.003 0.944 420	-0.083 0.088 420	0.203 0.000 420	1.000 420	0.040 0.411 420	0.005 0.923 420	-0.070 0.150 420	0.085 0.083 420	0.051 0.300 420	0.114 0.019 420	0.071 0.145 420
P5C5 Changes: divorce of TC's parents	0.046 0.352 420	0.092 0.059 420	0.072 0.142 420	0.040 0.411 420	1.000 420	0.382 0.000 420	0.019 0.702 420	0.255 0.000 420	0.179 0.000 420	0.107 0.029 420	0.073 0.137 420
P5C6 Changes: separation of TC's parents	0.119 0.014 420	0.003 0.945 420	0.092 0.060 420	0.005 0.923 420	0.382 0.000 420	1.000 420	0.210 0.000 420	0.230 0.000 420	0.213 0.000 420	0.133 0.006 420	0.107 0.028 420
P5C7 Changes: remarriage/reconciliation	0.043 0.377 420	-0.013 0.789 420	-0.060 0.219 420	-0.070 0.150 420	0.019 0.702 420	0.210 0.000 420	1.000 420	0.043 0.376 420	0.045 0.359 420	-0.044 0.372 420	-0.024 0.623 420
P5C8 Changes: parent/child separation	0.111 0.022 420	0.090 0.065 420	0.179 0.000 420	0.085 0.083 420	0.255 0.000 420	0.230 0.000 420	0.043 0.376 420	1.000 420	0.272 0.000 420	0.271 0.000 420	0.205 0.000 420
P5C9 Changes: financial problems	0.179 0.000 420	0.064 0.190 420	0.217 0.000 420	0.051 0.300 420	0.179 0.000 420	0.213 0.000 420	0.045 0.359 420	0.272 0.000 420	1.000 420	0.385 0.000 420	0.324 0.000 420
P5C10 Changes: legal problems	0.173 0.000 420	0.185 0.000 420	0.150 0.002 420	0.114 0.019 420	0.107 0.029 420	0.133 0.006 420	-0.044 0.372 420	0.271 0.000 420	0.385 0.000 420	1.000 420	0.451 0.000 420
P5C11 Changes: drug/alcohol use	0.103 0.035 420	0.051 0.296 420	0.082 0.092 420	0.071 0.145 420	0.073 0.137 420	0.107 0.028 420	-0.024 0.623 420	0.205 0.000 420	0.324 0.000 420	0.451 0.000 420	1.000 420
P5C12 Changes: stress/conflicts	0.124 0.011 420	0.160 0.001 420	0.264 0.000 420	0.054 0.269 420	0.173 0.000 420	0.139 0.004 420	-0.005 0.918 420	0.183 0.000 420	0.301 0.000 420	0.341 0.000 420	0.328 0.000 420
P5C13 Changes: pregnancies/miscarriages	0.053 0.276 420	0.002 0.967 420	0.002 0.964 420	-0.022 0.647 420	-0.043 0.377 420	-0.004 0.931 420	0.038 0.443 420	-0.059 0.228 420	-0.033 0.498 420	0.026 0.593 420	0.031 0.521 420
P5C14 Changes: job-related stress	0.058 0.237 420	0.081 0.096 420	0.109 0.025 420	-0.038 0.438 420	0.038 0.439 420	0.102 0.037 420	0.070 0.155 420	0.193 0.000 420	0.288 0.000 420	0.204 0.000 420	0.083 0.088 420
P5C15 Changes: loss of job	0.125 0.010 420	0.121 0.013 420	0.109 0.026 420	0.025 0.614 420	0.015 0.756 420	0.146 0.003 420	0.037 0.447 420	0.168 0.001 420	0.140 0.004 420	0.138 0.004 420	0.057 0.243 420
P5C16 Changes: other	0.123 0.017 379	0.045 0.384 379	0.041 0.430 379	0.061 0.235 379	0.038 0.459 379	0.035 0.492 379	-0.011 0.836 379	0.160 0.002 379	0.134 0.009 379	0.051 0.325 379	0.058 0.264 379

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P5C1	P5C2	P5C3	P5C4	P5C5	P5C6	P5C7	P5C8	P5C9	P5C10	P5C11
P5C17 TC: reaction to changes	0.133 0.008 397	0.003 0.958 397	-0.175 0.000 397	-0.083 0.098 397	0.073 0.145 397	-0.113 0.025 397	0.005 0.919 397	-0.146 0.004 397	-0.226 0.000 397	-0.157 0.002 397	-0.208 0.000 397
P5C18 p-rating #1: satisfaction w/parent role	-0.043 0.375 420	-0.066 0.177 420	-0.042 0.393 420	0.027 0.582 420	-0.070 0.149 420	-0.081 0.097 420	-0.031 0.528 420	-0.045 0.353 420	-0.029 0.554 420	-0.116 0.018 420	-0.054 0.273 420
P5C19 p-rating #2: child difficulty	0.030 0.541 420	0.044 0.366 420	0.115 0.018 420	0.045 0.353 420	0.027 0.574 420	0.099 0.043 420	0.064 0.191 420	0.085 0.083 420	0.079 0.105 420	0.042 0.387 420	0.067 0.169 420
P5C20 p-rating #3: parent-child relationship	-0.062 0.207 420	-0.004 0.927 420	-0.114 0.020 420	-0.066 0.177 420	-0.087 0.076 420	-0.053 0.274 420	-0.016 0.737 420	-0.074 0.132 420	-0.165 0.001 420	-0.143 0.003 420	-0.013 0.785 420
P5C21 p-rating #4: satisfaction child behav	-0.032 0.507 420	0.056 0.250 420	-0.046 0.346 420	-0.084 0.086 420	-0.009 0.851 420	-0.064 0.191 420	0.003 0.948 420	-0.051 0.301 420	-0.075 0.124 420	-0.041 0.399 420	-0.047 0.337 420
P5C22 i-rating #1: parent description of TC	0.029 0.554 420	0.039 0.426 420	-0.045 0.358 420	-0.040 0.412 420	-0.023 0.640 420	0.015 0.756 420	-0.016 0.741 420	-0.058 0.239 420	-0.069 0.160 420	-0.067 0.169 420	-0.056 0.254 420
P5C23 i-rating #2: parent insight about TC	-0.037 0.445 420	0.015 0.763 420	0.056 0.256 420	-0.011 0.829 420	0.001 0.976 420	0.045 0.362 420	0.014 0.777 420	0.040 0.416 420	-0.018 0.706 420	-0.046 0.352 420	-0.065 0.187 420
P5C24 i-rating #3: parent affect	0.045 0.356 420	0.083 0.088 420	0.033 0.500 420	-0.042 0.390 420	0.009 0.860 420	0.032 0.519 420	-0.027 0.585 420	-0.009 0.857 420	-0.058 0.234 420	0.003 0.952 420	-0.003 0.956 420
P5C25 i-rating #4: parent-child relationship	0.035 0.480 419	0.060 0.221 419	0.024 0.629 419	-0.004 0.934 419	0.002 0.961 419	0.014 0.778 419	-0.002 0.967 419	-0.020 0.688 419	-0.011 0.827 419	-0.015 0.760 419	-0.044 0.372 419
P5C74 TC receive Tx for emot. diff.	0.032 0.513 420	0.100 0.041 420	-0.009 0.856 420	-0.011 0.817 420	0.085 0.082 420	0.082 0.094 420	0.089 0.068 420	0.111 0.023 420	0.107 0.028 420	0.180 0.000 420	0.172 0.000 420
P5C75 Type of Tx facility-TC	0.092 0.443 71	-0.056 0.642 71	-0.074 0.539 71	0.152 0.206 71	-0.004 0.973 71	0.054 0.657 71	0.034 0.781 71	0.035 0.774 71	-0.080 0.505 71	-0.032 0.793 71	0.084 0.484 71
P5C76 TC receive Rx for behav./attn. prob.	0.069 0.162 418	0.101 0.039 418	0.016 0.749 418	-0.030 0.537 418	-0.054 0.267 418	0.029 0.551 418	0.092 0.061 418	0.088 0.072 418	0.049 0.318 418	0.129 0.008 418	0.102 0.037 418
P5C77 Respondent receive Tx	0.082 0.096 418	0.068 0.166 418	0.061 0.214 418	0.092 0.059 418	0.173 0.000 418	0.153 0.002 418	0.160 0.001 418	0.146 0.003 418	0.195 0.000 418	0.211 0.000 418	0.297 0.000 418
P5C78 Type of Tx facility-Respondent	0.159 0.216 62	-0.134 0.301 62	-0.131 0.308 62	0.103 0.423 62	-0.064 0.619 62	-0.046 0.721 62	0.128 0.322 62	-0.124 0.337 62	-0.053 0.682 62	-0.020 0.875 62	0.188 0.144 62
P5C79 Others in family receive Tx	-0.075 0.123 419	0.060 0.217 419	0.022 0.652 419	-0.010 0.832 419	0.131 0.007 419	0.065 0.185 419	0.006 0.906 419	0.060 0.220 419	0.193 0.000 419	0.229 0.000 419	0.235 0.000 419
P5C80 Which other family-Tx	-0.184 0.186 53	-0.068 0.627 53	0.270 0.051 53	0.011 0.936 53	0.189 0.175 53	0.171 0.220 53	0.172 0.219 53	0.151 0.281 53	0.253 0.067 53	0.126 0.367 53	0.321 0.019 53

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P5C12	P5C13	P5C14	P5C15	P5C16	P5C17	P5C18	P5C19	P5C20	P5C21	P5C22
P5C1 Changes: moved/major remodeling	0.124 0.011 420	0.053 0.276 420	0.058 0.237 420	0.125 0.010 420	0.123 0.017 379	0.133 0.008 397	-0.043 0.375 420	0.030 0.541 420	-0.062 0.207 420	-0.032 0.507 420	0.029 0.554 420
P5C2 Changes: medical problems w/TC	0.160 0.001 420	0.002 0.967 420	0.081 0.096 420	0.121 0.013 420	0.045 0.384 379	0.003 0.958 397	-0.066 0.177 420	0.044 0.366 420	-0.004 0.927 420	0.056 0.250 420	0.039 0.426 420
P5C3 Changes: medical problems w/family	0.264 0.000 420	0.002 0.964 420	0.109 0.025 420	0.109 0.026 420	0.041 0.430 379	-0.175 0.000 397	-0.042 0.393 420	0.115 0.018 420	-0.114 0.020 420	-0.046 0.346 420	-0.045 0.358 420
P5C4 Changes: death of important person	0.054 0.269 420	-0.022 0.647 420	-0.038 0.438 420	0.025 0.614 420	0.061 0.235 379	-0.083 0.098 397	0.027 0.582 420	0.045 0.353 420	-0.066 0.177 420	-0.084 0.086 420	-0.040 0.412 420
P5C5 Changes: divorce of TC's parents	0.173 0.000 420	-0.043 0.377 420	0.038 0.439 420	0.015 0.756 420	0.038 0.459 379	0.073 0.145 397	-0.070 0.149 420	0.027 0.574 420	-0.087 0.076 420	-0.009 0.851 420	-0.023 0.640 420
P5C6 Changes: separation of TC's parents	0.139 0.004 420	-0.004 0.931 420	0.102 0.037 420	0.146 0.003 420	0.035 0.492 379	-0.113 0.025 397	-0.081 0.097 420	0.099 0.043 420	-0.053 0.274 420	-0.064 0.191 420	0.015 0.756 420
P5C7 Changes: remarriage/reconciliation	-0.005 0.918 420	0.038 0.443 420	0.070 0.155 420	0.037 0.447 420	-0.011 0.836 379	0.005 0.919 397	-0.031 0.528 420	0.064 0.191 420	-0.016 0.737 420	0.003 0.948 420	-0.016 0.741 420
P5C8 Changes: parent/child separation	0.183 0.000 420	-0.059 0.228 420	0.193 0.000 420	0.168 0.001 420	0.160 0.002 379	-0.146 0.004 397	-0.045 0.353 420	0.085 0.083 420	-0.074 0.132 420	-0.051 0.301 420	-0.058 0.239 420
P5C9 Changes: financial problems	0.301 0.000 420	-0.033 0.498 420	0.288 0.000 420	0.140 0.004 420	0.134 0.009 379	-0.226 0.000 397	-0.029 0.554 420	0.079 0.105 420	-0.165 0.001 420	-0.075 0.124 420	-0.069 0.160 420
P5C10 Changes: legal problems	0.341 0.000 420	0.026 0.593 420	0.204 0.000 420	0.138 0.004 420	0.051 0.325 379	-0.157 0.002 397	-0.116 0.018 420	0.042 0.387 420	-0.143 0.003 420	-0.041 0.399 420	-0.067 0.169 420
P5C11 Changes: drug/alcohol use	0.328 0.000 420	0.031 0.521 420	0.083 0.088 420	0.057 0.243 420	0.058 0.264 379	-0.208 0.000 397	-0.054 0.273 420	0.067 0.169 420	-0.013 0.785 420	-0.047 0.337 420	-0.056 0.254 420
P5C12 Changes: stress/conflicts	1.000 420	-0.001 0.979 420	0.277 0.000 420	0.161 0.001 420	0.149 0.004 379	-0.160 0.001 397	-0.088 0.072 420	0.164 0.001 420	-0.130 0.008 420	-0.051 0.296 420	-0.032 0.515 420
P5C13 Changes: pregnancies/miscarriages	-0.001 0.979 420	1.000 420	0.029 0.547 420	0.065 0.184 420	0.021 0.686 379	0.086 0.089 397	0.032 0.517 420	0.067 0.169 420	-0.014 0.771 420	-0.025 0.614 420	0.033 0.495 420
P5C14 Changes: job-related stress	0.277 0.000 420	0.029 0.547 420	1.000 420	0.272 0.000 420	0.153 0.003 379	-0.122 0.015 397	-0.080 0.102 420	0.128 0.009 420	-0.064 0.187 420	-0.159 0.001 420	-0.095 0.052 420
P5C15 Changes: loss of job	0.161 0.001 420	0.065 0.184 420	0.272 0.000 420	1.000 420	0.023 0.658 379	-0.067 0.184 397	-0.027 0.575 420	0.081 0.098 420	-0.026 0.595 420	-0.088 0.072 420	-0.094 0.055 420
P5C16 Changes: other	0.149 0.004 379	0.021 0.686 379	0.153 0.003 379	0.023 0.658 379	1.000 379	-0.033 0.530 358	-0.058 0.258 379	0.135 0.009 379	-0.046 0.370 379	-0.114 0.027 379	-0.039 0.444 379
P5C17 TC: reaction to changes	-0.160 0.001 397	0.086 0.089 397	-0.122 0.015 397	-0.067 0.184 397	-0.033 0.530 358	1.000 397	0.118 0.018 397	-0.087 0.084 397	0.117 0.020 397	0.144 0.004 397	0.132 0.008 397

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P5C12	P5C13	P5C14	P5C15	P5C16	P5C17	P5C18	P5C19	P5C20	P5C21	P5C22
P5C18 p-rating #1: satisfaction w/parent role	-0.088 0.072 420	0.032 0.517 420	-0.080 0.102 420	-0.027 0.575 420	-0.058 0.258 379	0.118 0.018 397	1.000 0.000 420	-0.298 0.000 420	0.392 0.000 420	0.457 0.000 420	0.352 0.000 420
P5C19 p-rating #2: child difficulty	0.164 0.001 420	0.067 0.169 420	0.128 0.009 420	0.081 0.098 420	0.135 0.009 379	-0.087 0.084 397	-0.298 0.000 420	1.000 0.000 420	-0.402 0.000 420	-0.417 0.000 420	-0.389 0.000 420
P5C20 p-rating #3: parent-child relationship	-0.130 0.008 420	-0.014 0.771 420	-0.064 0.187 420	-0.026 0.595 420	-0.046 0.370 379	0.117 0.020 397	0.392 0.000 420	-0.402 0.000 420	1.000 0.000 420	0.479 0.000 420	0.418 0.000 420
P5C21 p-rating #4: satisfaction child behav	-0.051 0.296 420	-0.025 0.614 420	-0.159 0.001 420	-0.088 0.072 420	-0.114 0.027 379	0.144 0.004 397	0.457 0.000 420	-0.417 0.000 420	0.479 0.000 420	1.000 0.000 420	0.525 0.000 420
P5C22 i-rating #1: parent description of TC	-0.032 0.515 420	0.033 0.495 420	-0.095 0.052 420	-0.094 0.055 420	-0.039 0.444 379	0.132 0.008 397	0.352 0.000 420	-0.389 0.000 420	0.418 0.000 420	0.525 0.000 420	1.000 0.000 420
P5C23 i-rating #2: parent insight about TC	0.065 0.183 420	-0.023 0.641 420	-0.007 0.880 420	-0.096 0.050 420	-0.019 0.719 379	0.084 0.096 397	0.209 0.000 420	-0.215 0.000 420	0.258 0.000 420	0.313 0.000 420	0.583 0.000 420
P5C24 i-rating #3: parent affect	-0.001 0.980 420	0.039 0.421 420	-0.109 0.026 420	-0.086 0.078 420	0.015 0.776 379	0.112 0.026 397	0.320 0.000 420	-0.278 0.000 420	0.337 0.000 420	0.410 0.000 420	0.690 0.000 420
P5C25 i-rating #4: parent-child relationship	0.036 0.462 419	0.039 0.430 419	-0.008 0.863 419	-0.059 0.231 419	0.011 0.837 378	0.087 0.085 396	0.335 0.000 419	-0.338 0.000 419	0.357 0.000 419	0.420 0.000 419	0.668 0.000 419
P5C74 TC receive Tx for emot. diff.	0.139 0.004 420	-0.006 0.907 420	0.148 0.002 420	0.159 0.001 420	0.100 0.052 379	-0.103 0.040 397	-0.147 0.002 420	0.267 0.000 420	-0.184 0.000 420	-0.239 0.000 420	-0.192 0.000 420
P5C75 Type of Tx facility-TC	-0.074 0.538 71	-0.040 0.738 71	-0.055 0.650 71	-0.032 0.790 71	0.189 0.137 63	-0.008 0.947 69	-0.037 0.757 71	0.201 0.093 71	-0.090 0.457 71	-0.230 0.053 71	-0.218 0.068 71
P5C76 TC receive Rx for behav./attn. prob.	0.071 0.145 418	0.035 0.475 418	0.090 0.065 418	0.148 0.002 418	0.019 0.711 378	-0.056 0.270 395	-0.221 0.000 418	0.329 0.000 418	-0.215 0.000 418	-0.250 0.000 418	-0.178 0.000 418
P5C77 Respondent receive Tx	0.300 0.000 418	-0.075 0.126 418	0.152 0.002 418	0.068 0.166 418	0.186 0.000 377	-0.029 0.564 395	-0.022 0.655 418	0.133 0.006 418	-0.112 0.022 418	-0.064 0.194 418	-0.094 0.055 418
P5C78 Type of Tx facility-Respondent	-0.009 0.946 62	-0.056 0.664 62	-0.036 0.783 62	-0.132 0.307 62	0.145 0.292 55	-0.029 0.826 62	0.190 0.139 62	-0.250 0.050 62	0.179 0.163 62	0.052 0.691 62	0.163 0.204 62
P5C79 Others in family receive Tx	0.232 0.000 419	0.045 0.356 419	0.135 0.006 419	0.059 0.225 419	0.018 0.733 378	-0.156 0.002 396	0.053 0.283 419	0.064 0.193 419	-0.074 0.130 419	-0.000 0.995 419	-0.005 0.920 419
P5C80 Which other family-Tx	0.132 0.346 53	-0.058 0.682 53	0.099 0.482 53	-0.141 0.315 53	-0.015 0.922 46	-0.198 0.168 50	0.105 0.452 53	0.024 0.863 53	0.031 0.823 53	0.179 0.200 53	0.040 0.777 53

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P5C23	P5C24	P5C25	P5C74	P5C75	P5C76	P5C77	P5C78	P5C79	P5C80
P5C1 Changes: moved/major remodeling	-0.037 0.445 420	0.045 0.356 420	0.035 0.480 419	0.032 0.513 420	0.092 0.443 71	0.069 0.162 418	0.082 0.096 418	0.159 0.216 62	-0.075 0.123 419	-0.184 0.186 53
P5C2 Changes: medical problems w/TC	0.015 0.763 420	0.083 0.088 420	0.060 0.221 419	0.100 0.041 420	-0.056 0.642 71	0.101 0.039 418	0.068 0.166 418	-0.134 0.301 62	0.060 0.217 419	-0.068 0.627 53
P5C3 Changes: medical problems w/family	0.056 0.256 420	0.033 0.500 420	0.024 0.629 419	-0.009 0.856 420	-0.074 0.539 71	0.016 0.749 418	0.061 0.214 418	-0.131 0.308 62	0.022 0.652 419	0.270 0.051 53
P5C4 Changes: death of important person	-0.011 0.829 420	-0.042 0.390 420	-0.004 0.934 419	-0.011 0.817 420	0.152 0.206 71	-0.030 0.537 418	0.092 0.059 418	0.103 0.423 62	-0.010 0.832 419	0.011 0.936 53
P5C5 Changes: divorce of TC's parents	0.001 0.976 420	0.009 0.860 420	0.002 0.961 419	0.085 0.082 420	-0.004 0.973 71	-0.054 0.267 418	0.173 0.000 418	-0.064 0.619 62	0.131 0.007 419	0.189 0.175 53
P5C6 Changes: separation of TC's parents	0.045 0.362 420	0.032 0.519 420	0.014 0.778 419	0.082 0.094 420	0.054 0.657 71	0.029 0.551 418	0.153 0.002 418	-0.046 0.721 62	0.065 0.185 419	0.171 0.220 53
P5C7 Changes: remarriage/reconciliation	0.014 0.777 420	-0.027 0.585 420	-0.002 0.967 419	0.089 0.068 420	0.034 0.781 71	0.092 0.061 418	0.160 0.001 418	0.128 0.322 62	0.006 0.906 419	0.172 0.219 53
P5C8 Changes: parent/child separation	0.040 0.416 420	-0.009 0.857 420	-0.020 0.688 419	0.111 0.023 420	0.035 0.774 71	0.088 0.072 418	0.146 0.003 418	-0.124 0.337 62	0.060 0.220 419	0.151 0.281 53
P5C9 Changes: financial problems	-0.018 0.706 420	-0.058 0.234 420	-0.011 0.827 419	0.107 0.028 420	-0.080 0.505 71	0.049 0.318 418	0.195 0.000 418	-0.053 0.682 62	0.193 0.000 419	0.253 0.067 53
P5C10 Changes: legal problems	-0.046 0.352 420	0.003 0.952 420	-0.015 0.760 419	0.180 0.000 420	-0.032 0.793 71	0.129 0.008 418	0.211 0.000 418	-0.020 0.875 62	0.229 0.000 419	0.126 0.367 53
P5C11 Changes: drug/alcohol use	-0.065 0.187 420	-0.003 0.956 420	-0.044 0.372 419	0.172 0.000 420	0.084 0.484 71	0.102 0.037 418	0.297 0.000 418	0.188 0.144 62	0.235 0.000 419	0.321 0.019 53
P5C12 Changes: stress/conflicts	0.065 0.183 420	-0.001 0.980 420	0.036 0.462 419	0.139 0.004 420	-0.074 0.538 71	0.071 0.145 418	0.300 0.000 418	-0.009 0.946 62	0.232 0.000 419	0.132 0.346 53
P5C13 Changes: pregnancies/miscarriages	-0.023 0.641 420	0.039 0.421 420	0.039 0.430 419	-0.006 0.907 420	-0.040 0.738 71	0.035 0.475 418	-0.075 0.126 418	-0.056 0.664 62	0.045 0.356 419	-0.058 0.682 53
P5C14 Changes: job-related stress	-0.007 0.880 420	-0.109 0.026 420	-0.008 0.863 419	0.148 0.002 420	-0.055 0.650 71	0.090 0.065 418	0.152 0.002 418	-0.036 0.783 62	0.135 0.006 419	0.099 0.482 53
P5C15 Changes: loss of job	-0.096 0.050 420	-0.086 0.078 420	-0.059 0.231 419	0.159 0.001 420	-0.032 0.790 71	0.148 0.002 418	0.068 0.166 418	-0.132 0.307 62	0.059 0.225 419	-0.141 0.315 53
P5C16 Changes: other	-0.019 0.719 379	0.015 0.776 379	0.011 0.837 378	0.100 0.052 379	0.189 0.137 63	0.019 0.711 378	0.186 0.000 377	0.145 0.292 55	0.018 0.733 378	-0.015 0.922 46
P5C17 TC: reaction to changes	0.084 0.096 397	0.112 0.026 397	0.087 0.085 396	-0.103 0.040 397	-0.008 0.947 69	-0.056 0.270 395	-0.029 0.564 395	-0.029 0.826 62	-0.156 0.002 396	-0.198 0.168 50

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P5C23	P5C24	P5C25	P5C74	P5C75	P5C76	P5C77	P5C78	P5C79	P5C80
P5C18 p-rating #1: satisfaction w/parent role	0.209 0.000 420	0.320 0.000 420	0.335 0.000 419	-0.147 0.002 420	-0.037 0.757 71	-0.221 0.000 418	-0.022 0.655 418	0.190 0.139 62	0.053 0.283 419	0.105 0.452 53
P5C19 p-rating #2: child difficulty	-0.215 0.000 420	-0.278 0.000 420	-0.338 0.000 419	0.267 0.000 420	0.201 0.093 71	0.329 0.000 418	0.133 0.006 418	-0.250 0.050 62	0.064 0.193 419	0.024 0.863 53
P5C20 p-rating #3: parent-child relationship	0.258 0.000 420	0.337 0.000 420	0.357 0.000 419	-0.184 0.000 420	-0.090 0.457 71	-0.215 0.000 418	-0.112 0.022 418	0.179 0.163 62	-0.074 0.130 419	0.031 0.823 53
P5C21 p-rating #4: satisfaction child behav	0.313 0.000 420	0.410 0.000 420	0.420 0.000 419	-0.239 0.000 420	-0.230 0.053 71	-0.250 0.000 418	-0.064 0.194 418	0.052 0.691 62	-0.000 0.995 419	0.179 0.200 53
P5C22 i-rating #1: parent description of TC	0.583 0.000 420	0.690 0.000 420	0.668 0.000 419	-0.192 0.000 420	-0.218 0.068 71	-0.178 0.000 418	-0.094 0.055 418	0.163 0.204 62	-0.005 0.920 419	0.040 0.777 53
P5C23 i-rating #2: parent insight about TC	1.000 0.000 420	0.610 0.000 420	0.649 0.000 419	-0.086 0.078 420	-0.337 0.004 71	-0.059 0.229 418	0.020 0.683 418	0.136 0.293 62	0.005 0.926 419	0.003 0.980 53
P5C24 i-rating #3: parent affect	0.610 0.000 420	1.000 0.000 420	0.736 0.000 419	-0.076 0.122 420	-0.079 0.512 71	-0.129 0.008 418	0.005 0.916 418	0.197 0.126 62	-0.008 0.866 419	-0.030 0.831 53
P5C25 i-rating #4: parent-child relationship	0.649 0.000 419	0.736 0.000 419	1.000 0.000 419	-0.133 0.006 419	-0.350 0.003 71	-0.138 0.005 417	0.005 0.915 417	0.129 0.318 62	0.031 0.522 418	-0.112 0.429 52
P5C74 TC receive Tx for emot. diff.	-0.086 0.078 420	-0.076 0.122 420	-0.133 0.006 419	1.000 0.000 420	0.771 0.000 71	0.599 0.000 418	0.325 0.000 418	-0.183 0.155 62	0.194 0.000 419	0.179 0.200 53
P5C75 Type of Tx facility-TC	-0.337 0.004 71	-0.079 0.512 71	-0.350 0.003 71	0.771 0.000 71	1.000 0.000 71	0.136 0.264 69	-0.013 0.915 71	0.426 0.017 31	-0.126 0.300 70	0.294 0.183 22
P5C76 TC receive Rx for behav./attn. prob.	-0.059 0.229 418	-0.129 0.008 418	-0.138 0.005 417	0.599 0.000 418	0.136 0.264 69	1.000 0.000 418	0.218 0.000 416	-0.217 0.093 61	0.200 0.000 417	0.093 0.517 51
P5C77 Respondent receive Tx	0.020 0.683 418	0.005 0.916 418	0.005 0.915 417	0.325 0.000 418	-0.013 0.915 71	0.218 0.000 416	1.000 0.000 418	0.534 0.000 62	0.261 0.000 417	0.223 0.108 53
P5C78 Type of Tx facility-Respondent	0.136 0.293 62	0.197 0.126 62	0.129 0.318 62	-0.183 0.155 62	0.426 0.017 31	-0.217 0.093 61	0.534 0.000 62	1.000 0.000 62	-0.175 0.177 61	0.552 0.008 22
P5C79 Others in family receive Tx	0.005 0.926 419	-0.008 0.866 419	0.031 0.522 418	0.194 0.000 419	-0.126 0.300 70	0.200 0.000 417	0.261 0.000 417	-0.175 0.177 61	1.000 0.000 419	0.562 0.000 53
P5C80 Which other family-Tx	0.003 0.980 53	-0.030 0.831 53	-0.112 0.429 52	0.179 0.200 53	0.294 0.183 22	0.093 0.517 51	0.223 0.108 53	0.552 0.008 22	0.562 0.000 53	1.000 0.000 53

Scale Correlations

Pearson Correlation Coefficients, N = 420 Prob > r under H0: Rho=0			
	LCH5qob	LCH5qpr	LCH5str
LCH5qob Y5 LC Quality Parent-Child Relat_Observer	1.000	0.530 0.000	-0.026 0.595
LCH5qpr Y5 LC Quality Parent-Child Relat_Parent	0.530 0.000	1.000	-0.208 0.000
LCH5str Y5 LC Stress Scale sum score	-0.026 0.595	-0.208 0.000	1.000

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