

Life Changes
Grade 5/Year 6
Fast Track Project Technical Report
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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: P6C

Scored: LCH6

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 sixth year of the study. Overall, 56 records were missing the whole measure. 14 were missing from the control sample (2 from Durham, 3 from Nashville, 3 from Pennsylvania, and 6 from Washington) and 50 were missing from the normative sample (5 from Durham, 13 from Nashville, 15 from Pennsylvania, and 17 from Washington).

In addition, it should be noted that 301 records were missing 3 or more items; of these, 88 were from the control sample (27 from Durham, 22 from Nashville, 22 from Pennsylvania, and 17 from Washington) and 262 were from the normative sample (79 from Durham, 64 from Nashville, 64 from Pennsylvania, and 55 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 (350 missing), what type of treatment facility the respondent had used in the past year (248 missing) and which other member of the family had received treatment (345 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
Y6 LC Quality Parent-Child Relat_Observ (LCH6qob)	0.88	0.84
Y6 LC Quality Parent-Child Relat_Parent (LCH6qpr)	0.76	0.77
Y6 LC Stress Scale sum score (LCH6str)	0.63	0.56

Both the *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version* showed adequate reliability, ranging from .76 to .88, for internal consistency for both the normative and control samples. However, the *Stress Scale Sum Score* showed only a 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 subscales, the *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version*. For each, the mean for the normative sample was greater than the mean for the control sample.

Of the 8 items not included in a scale, 3 items also indicated significant differences between the normative and control samples. They were whether the child had received treatment for emotional or behavioral difficulties (P6C74), whether the child had received medication to control behavior or attention (P6C76), and whether the respondent had received treatment during the past year for personal or emotional difficulties (P6C77).

Comparison of Means for Normative and Control for Scales							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
Y6 LC Quality Parent-Child Relat_Observer (LCH6qob)	3.91	0.75	3.45	0.73	405	-5.97	<.0001
Y6 LC Quality Parent-Child Relat_Parent (LCH6qpr)	4.08	0.61	3.64	0.72	250	-6.12	<.0001
Y6 LC Stress Scale sum score (LCH6str)	3.59	3.52	4.20	3.56	405	1.66	0.0987

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 (P6C17)	2.72	1.21	2.56	1.15	404	-1.29	0.1962
TC receive Tx for emot. diff. (P6C74)	0.08	0.28	0.25	0.43	202	4.11	<.0001
Type of Tx facility-TC (P6C75)	2.29	0.56	2.31	0.58	55	0.13	0.8997
TC receive Rx for behav./attn. prob. (P6C76)	0.03	0.16	0.21	0.41	163	5.18	<.0001
Respondent receive Tx (P6C77)	0.12	0.34	0.19	0.39	404	1.97	0.0496

Comparison of Means for Normative and Control for Items								
Variable	Normative		Control		DF	t Value	Pr > t	
	Mean	Std Dev	Mean	Std Dev				
Type of Tx facility-Respondent (P6C78)	2.79	0.99	2.30	0.82	53	-1.98	0.0525	
Others in family receive Tx (P6C79)	0.11	0.31	0.18	0.38	236	1.93	0.0552	
Which other family-Tx (P6C80)	2.26	0.45	2.28	0.46	50	0.17	0.8694	

V. Recommendations for Use

Analysts should note that the distributions for both the normative and control samples for all three of the subscales were fairly normal with one exception. One subscale, the *Stress Scale Sum Score*, was slightly and positively skewed for the normative sample.

Four items in the normative sample were positively skewed. They were whether the child had received treatment for emotional or behavioral difficulties (P6C74), whether the child had received medication to control behavior or attention (P6C76), whether the respondent had received treatment during the past year for personal or emotional difficulties (P6C77), and whether anyone else in the household had received treatment during the past year for emotional or behavioral difficulties (P6C79). These were the same items that showed significant differences between the normative and control samples in the t-tests. The other four items in the normative sample were fairly normally distributed.

Three items in the control sample were positively skewed as well. They were whether the child had received medication to control behavior or attention (P6C76), whether the respondent had received treatment during the past year for personal or emotional difficulties (P6C77), and whether anyone else in the household had received treatment during the past year for emotional or behavioral difficulties (P6C79). Again, these were three of the same items that showed significant differences in the t-tests. The rest of the control items were fairly normally distributed.

Analysts should also note that, of the items that were skewed in the normative and control samples, the items in the normative sample were more positively skewed than the same items in the control sample, particularly item P676 (whether the child had received medication to control behavior or attention).

VI. Item and Scale Means and SDs

Descriptive Statistics for Items - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P6C1	Changes: moved/major remodeling	141	0.56	0.81	0.00	2.00
P6C2	Changes: medical problems w/TC	141	0.16	0.50	0.00	2.00
P6C3	Changes: medical problems w/family	141	0.54	0.82	0.00	2.00
P6C4	Changes: death of important person	141	0.48	0.85	0.00	5.00
P6C5	Changes: divorce of TC's parents	141	0.06	0.32	0.00	2.00
P6C6	Changes: separation of TC's parents	141	0.14	0.50	0.00	2.00
P6C7	Changes: remarriage/reconciliation	141	0.12	0.45	0.00	2.00
P6C8	Changes: parent/child separation	141	0.23	0.57	0.00	2.00
P6C9	Changes: financial problems	141	0.39	0.68	0.00	2.00
P6C10	Changes: legal problems	141	0.11	0.41	0.00	2.00
P6C11	Changes: drug/alcohol use	140	0.11	0.45	0.00	2.00
P6C12	Changes: stress/conflicts	140	0.34	0.65	0.00	2.00
P6C13	Changes: pregnancies/miscarriages	141	0.07	0.35	0.00	2.00
P6C14	Changes: job-related stress	141	0.35	0.67	0.00	2.00
P6C15	Changes: loss of job	141	0.17	0.51	0.00	2.00
P6C16	Changes: other	119	0.37	0.75	0.00	2.00
P6C17	TC: reaction to changes	140	2.56	1.15	1.00	5.00
P6C18	p-rating #1: satisfaction w/parent role	141	4.06	0.91	1.00	5.00
P6C19	p-rating #2: child difficulty	141	3.15	0.93	1.00	5.00
P6C20	p-rating #3: parent-child relationship	141	4.10	0.86	1.00	5.00
P6C21	p-rating #4: satisfaction child behav	141	3.55	1.00	1.00	5.00
P6C22	i-rating #1: parent description of TC	141	3.80	0.96	1.00	5.00
P6C23	i-rating #2: parent insight about TC	140	3.18	0.85	1.00	5.00
P6C24	i-rating #3: parent affect	140	3.51	0.85	1.00	5.00
P6C25	i-rating #4: parent-child relationship	140	3.32	0.90	1.00	5.00
P6C74	TC receive Tx for emot. diff.	141	0.25	0.43	0.00	1.00
P6C75	Type of Tx facility-TC	36	2.31	0.58	1.00	3.00
P6C76	TC receive Rx for behav./attn. prob.	141	0.21	0.41	0.00	1.00
P6C77	Respondent receive Tx	141	0.19	0.39	0.00	1.00
P6C78	Type of Tx facility-Respondent	27	2.30	0.82	1.00	4.00
P6C79	Others in family receive Tx	140	0.18	0.38	0.00	1.00
P6C80	Which other family-Tx	25	2.28	0.46	2.00	3.00

Descriptive Statistics for Items - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P6C1	Changes: moved/major remodeling	337	0.38	0.70	0.00	2.00
P6C2	Changes: medical problems w/TC	337	0.17	0.49	0.00	2.00
P6C3	Changes: medical problems w/family	337	0.49	0.79	0.00	2.00
P6C4	Changes: death of important person	337	0.46	0.82	0.00	5.00
P6C5	Changes: divorce of TC's parents	337	0.04	0.26	0.00	2.00
P6C6	Changes: separation of TC's parents	337	0.12	0.46	0.00	2.00
P6C7	Changes: remarriage/reconciliation	337	0.07	0.33	0.00	2.00
P6C8	Changes: parent/child separation	337	0.22	0.53	0.00	2.00
P6C9	Changes: financial problems	337	0.36	0.65	0.00	2.00
P6C10	Changes: legal problems	337	0.12	0.44	0.00	2.00
P6C11	Changes: drug/alcohol use	337	0.12	0.46	0.00	2.00
P6C12	Changes: stress/conflicts	337	0.30	0.64	0.00	2.00
P6C13	Changes: pregnancies/miscarriages	337	0.11	0.42	0.00	2.00
P6C14	Changes: job-related stress	337	0.31	0.64	0.00	2.00
P6C15	Changes: loss of job	337	0.11	0.42	0.00	2.00
P6C16	Changes: other	296	0.32	0.69	0.00	2.00
P6C17	TC: reaction to changes	337	2.69	1.21	1.00	5.00
P6C18	p-rating #1: satisfaction w/parent role	337	4.42	0.82	1.00	5.00
P6C19	p-rating #2: child difficulty	337	2.78	0.96	1.00	5.00
P6C20	p-rating #3: parent-child relationship	337	4.40	0.77	1.00	5.00
P6C21	p-rating #4: satisfaction child behav	337	3.94	0.94	1.00	5.00
P6C22	i-rating #1: parent description of TC	337	4.12	0.86	1.00	5.00
P6C23	i-rating #2: parent insight about TC	336	3.61	0.95	1.00	5.00
P6C24	i-rating #3: parent affect	336	3.91	0.78	1.00	5.00
P6C25	i-rating #4: parent-child relationship	336	3.71	0.90	1.00	5.00
P6C74	TC receive Tx for emot. diff.	337	0.11	0.32	0.00	1.00
P6C75	Type of Tx facility-TC	37	2.30	0.57	1.00	3.00
P6C76	TC receive Rx for behav./attn. prob.	336	0.05	0.23	0.00	1.00
P6C77	Respondent receive Tx	336	0.13	0.36	0.00	2.00
P6C78	Type of Tx facility-Respondent	41	2.66	0.96	1.00	4.00
P6C79	Others in family receive Tx	335	0.11	0.32	0.00	1.00
P6C80	Which other family-Tx	37	2.30	0.46	2.00	3.00

Descriptive Statistics for Subscales - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH6qob	Y6 LC Quality Parent-Child Relat_Observer	141	3.45	0.73	1.50	5.00
LCH6qpr	Y6 LC Quality Parent-Child Relat_Parent	141	3.64	0.72	1.00	5.00
LCH6str	Y6 LC Stress Scale sum score	141	4.20	3.56	0.00	16.00

Descriptive Statistics for Subscales - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH6qob	Y6 LC Quality Parent-Child Relat_Observer	337	3.84	0.75	1.75	5.00
LCH6qpr	Y6 LC Quality Parent-Child Relat_Parent	337	3.99	0.67	1.00	5.00
LCH6str	Y6 LC Stress Scale sum score	337	3.68	3.55	0.00	20.00

VII. Item and Scale Correlations

Item Correlations

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P6C1	P6C2	P6C3	P6C4	P6C5	P6C6	P6C7	P6C8	P6C9	P6C10	P6C11
P6C1 Changes: moved/major remodeling	1.000 407	0.055 0.268 407	0.103 0.038 407	0.027 0.587 407	0.099 0.047 407	0.089 0.072 407	0.028 0.570 407	0.120 0.015 407	0.137 0.006 407	0.059 0.232 407	0.067 0.176 406
P6C2 Changes: medical problems w/TC	0.055 0.268 407	1.000 407	0.164 0.001 407	0.052 0.298 407	0.086 0.084 407	0.054 0.277 407	0.065 0.188 407	0.046 0.354 407	0.077 0.119 407	0.111 0.025 407	0.039 0.436 406
P6C3 Changes: medical problems w/family	0.103 0.038 407	0.164 0.001 407	1.000 407	0.105 0.034 407	0.001 0.988 407	-0.006 0.909 407	0.001 0.985 407	0.073 0.144 407	0.095 0.055 407	0.157 0.002 407	0.102 0.040 406
P6C4 Changes: death of important person	0.027 0.587 407	0.052 0.298 407	0.105 0.034 407	1.000 407	-0.057 0.249 407	-0.047 0.342 407	-0.049 0.328 407	-0.048 0.336 407	0.012 0.816 407	0.018 0.712 407	0.062 0.213 406
P6C5 Changes: divorce of TC's parents	0.099 0.047 407	0.086 0.084 407	0.001 0.988 407	-0.057 0.249 407	1.000 407	0.216 0.000 407	0.091 0.066 407	0.244 0.000 407	0.231 0.000 407	0.214 0.000 407	-0.022 0.659 406
P6C6 Changes: separation of TC's parents	0.089 0.072 407	0.054 0.277 407	-0.006 0.909 407	-0.047 0.342 407	0.216 0.000 407	1.000 407	0.284 0.000 407	0.157 0.001 407	0.220 0.000 407	0.101 0.042 407	0.246 0.000 406
P6C7 Changes: remarriage/reconciliation	0.028 0.570 407	0.065 0.188 407	0.001 0.985 407	-0.049 0.328 407	0.091 0.066 407	0.284 0.000 407	1.000 407	0.080 0.109 407	0.039 0.428 407	0.112 0.024 407	0.007 0.890 406
P6C8 Changes: parent/child separation	0.120 0.015 407	0.046 0.354 407	0.073 0.144 407	-0.048 0.336 407	0.244 0.000 407	0.157 0.001 407	0.080 0.109 407	1.000 407	0.197 0.000 407	0.107 0.030 407	0.111 0.025 406
P6C9 Changes: financial problems	0.137 0.006 407	0.077 0.119 407	0.095 0.055 407	0.012 0.816 407	0.231 0.000 407	0.220 0.000 407	0.039 0.428 407	0.197 0.000 407	1.000 407	0.399 0.000 407	0.228 0.000 406
P6C10 Changes: legal problems	0.059 0.232 407	0.111 0.025 407	0.157 0.002 407	0.018 0.712 407	0.214 0.000 407	0.101 0.042 407	0.112 0.024 407	0.107 0.030 407	0.399 0.000 407	1.000 407	0.279 0.000 406
P6C11 Changes: drug/alcohol use	0.067 0.176 406	0.039 0.436 406	0.102 0.040 406	0.062 0.213 406	-0.022 0.659 406	0.246 0.000 406	0.007 0.890 406	0.111 0.025 406	0.228 0.000 406	0.279 0.000 406	1.000 406
P6C12 Changes: stress/conflicts	0.119 0.017 406	0.085 0.086 406	0.220 0.000 406	0.159 0.001 406	0.159 0.001 406	0.058 0.242 406	-0.003 0.959 406	0.233 0.000 406	0.256 0.000 406	0.287 0.000 406	0.289 0.000 406
P6C13 Changes: pregnancies/miscarriages	-0.026 0.604 407	-0.016 0.749 407	0.016 0.744 407	-0.061 0.220 407	0.047 0.348 407	0.043 0.382 407	0.015 0.759 407	0.106 0.032 407	0.039 0.431 407	0.064 0.197 407	0.014 0.783 406
P6C14 Changes: job-related stress	0.144 0.004 407	0.109 0.028 407	0.131 0.008 407	-0.030 0.543 407	0.128 0.010 407	0.045 0.366 407	0.026 0.603 407	0.119 0.017 407	0.262 0.000 407	0.169 0.001 407	-0.003 0.950 406
P6C15 Changes: loss of job	0.014 0.773 407	-0.010 0.845 407	0.052 0.291 407	0.032 0.525 407	0.054 0.277 407	0.027 0.587 407	0.019 0.703 407	0.046 0.354 407	0.328 0.000 407	0.289 0.000 407	0.131 0.008 406
P6C16 Changes: other	0.143 0.007 356	-0.046 0.389 356	0.083 0.117 356	-0.088 0.098 356	0.094 0.077 356	0.091 0.088 356	0.022 0.673 356	0.175 0.001 356	0.148 0.005 356	0.155 0.003 356	0.086 0.107 355

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P6C1	P6C2	P6C3	P6C4	P6C5	P6C6	P6C7	P6C8	P6C9	P6C10	P6C11
P6C17 TC: reaction to changes	-0.044 0.379 406	-0.095 0.056 406	-0.183 0.000 406	-0.236 0.000 406	-0.059 0.234 406	-0.053 0.290 406	0.059 0.238 406	-0.191 0.000 406	-0.220 0.000 406	-0.148 0.003 406	-0.158 0.001 406
P6C18 p-rating #1: satisfaction w/parent role	-0.073 0.140 407	-0.032 0.523 407	-0.039 0.430 407	0.062 0.213 407	-0.064 0.196 407	-0.006 0.905 407	-0.067 0.177 407	-0.186 0.000 407	-0.136 0.006 407	-0.088 0.078 407	-0.023 0.644 406
P6C19 p-rating #2: child difficulty	0.099 0.045 407	0.005 0.918 407	0.072 0.144 407	0.012 0.807 407	0.083 0.096 407	0.012 0.806 407	0.085 0.087 407	0.115 0.020 407	0.163 0.001 407	0.064 0.200 407	0.060 0.230 406
P6C20 p-rating #3: parent-child relationship	-0.026 0.600 407	-0.024 0.630 407	-0.058 0.244 407	0.051 0.305 407	-0.067 0.175 407	0.010 0.835 407	-0.070 0.159 407	-0.162 0.001 407	-0.103 0.038 407	-0.077 0.119 407	-0.042 0.399 406
P6C21 p-rating #4: satisfaction child behav	-0.094 0.058 407	-0.040 0.426 407	-0.015 0.762 407	-0.059 0.232 407	-0.015 0.758 407	-0.040 0.423 407	-0.051 0.305 407	-0.104 0.036 407	-0.209 0.000 407	-0.037 0.461 407	-0.077 0.120 406
P6C22 i-rating #1: parent description of TC	-0.092 0.063 407	-0.104 0.036 407	0.043 0.392 407	0.021 0.671 407	-0.155 0.002 407	-0.049 0.326 407	-0.056 0.259 407	-0.130 0.008 407	-0.167 0.001 407	-0.124 0.012 407	-0.019 0.698 406
P6C23 i-rating #2: parent insight about TC	-0.035 0.479 406	-0.042 0.397 406	0.087 0.080 406	-0.034 0.490 406	-0.070 0.159 406	-0.041 0.412 406	-0.108 0.030 406	0.012 0.810 406	-0.037 0.457 406	-0.021 0.667 406	0.027 0.581 405
P6C24 i-rating #3: parent affect	-0.135 0.006 406	-0.081 0.102 406	0.018 0.719 406	-0.005 0.919 406	-0.168 0.001 406	-0.062 0.213 406	-0.045 0.367 406	-0.071 0.154 406	-0.137 0.006 406	-0.150 0.002 406	-0.078 0.115 405
P6C25 i-rating #4: parent-child relationship	-0.122 0.014 405	-0.078 0.117 405	0.021 0.669 405	-0.019 0.698 405	-0.147 0.003 405	-0.047 0.345 405	-0.074 0.138 405	-0.050 0.312 405	-0.133 0.007 405	-0.117 0.018 405	-0.072 0.149 404
P6C74 TC receive Tx for emot. diff.	0.013 0.794 407	0.156 0.002 407	0.077 0.120 407	-0.009 0.854 407	0.089 0.073 407	0.072 0.150 407	0.056 0.264 407	0.133 0.007 407	0.178 0.000 407	0.141 0.004 407	0.066 0.183 406
P6C75 Type of Tx facility-TC	-0.002 0.988 57	-0.055 0.684 57	0.050 0.714 57	0.196 0.143 57	0.093 0.490 57	0.093 0.489 57	-0.006 0.965 57	-0.133 0.323 57	-0.079 0.559 57	-0.130 0.337 57	0.019 0.889 57
P6C76 TC receive Rx for behav./attn. prob.	0.092 0.063 406	0.128 0.010 406	0.038 0.440 406	-0.010 0.840 406	-0.020 0.691 406	-0.079 0.110 406	0.078 0.115 406	0.184 0.000 406	0.105 0.034 406	0.064 0.195 406	-0.007 0.885 405
P6C77 Respondent receive Tx	-0.001 0.979 406	0.079 0.112 406	0.061 0.224 406	-0.005 0.924 406	0.108 0.029 406	0.051 0.301 406	0.014 0.786 406	0.137 0.006 406	0.115 0.020 406	0.148 0.003 406	0.091 0.067 405
P6C78 Type of Tx facility-Respondent	-0.241 0.077 55	-0.052 0.704 55	0.097 0.481 55	-0.050 0.715 55	0.091 0.510 55	-0.049 0.720 55	-0.135 0.325 55	0.013 0.927 55	0.187 0.172 55	0.078 0.572 55	0.214 0.117 55
P6C79 Others in family receive Tx	0.088 0.076 404	0.072 0.146 404	0.143 0.004 404	-0.006 0.910 404	0.070 0.163 404	0.169 0.001 404	0.063 0.208 404	0.149 0.003 404	0.219 0.000 404	0.153 0.002 404	0.220 0.000 403
P6C80 Which other family-Tx	0.019 0.891 52	-0.051 0.720 52	-0.291 0.037 52	-0.174 0.217 52	0.177 0.209 52	0.480 0.000 52	0.100 0.479 52	-0.132 0.350 52	-0.013 0.929 52	-0.019 0.892 52	0.107 0.448 52

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P6C12	P6C13	P6C14	P6C15	P6C16	P6C17	P6C18	P6C19	P6C20	P6C21	P6C22
P6C1 Changes: moved/major remodeling	0.119 0.017 406	-0.026 0.604 407	0.144 0.004 407	0.014 0.773 407	0.143 0.007 356	-0.044 0.379 406	-0.073 0.140 407	0.099 0.045 407	-0.026 0.600 407	-0.094 0.058 407	-0.092 0.063 407
P6C2 Changes: medical problems w/TC	0.085 0.086 406	-0.016 0.749 407	0.109 0.028 407	-0.010 0.845 407	-0.046 0.389 356	-0.095 0.056 406	-0.032 0.523 407	0.005 0.918 407	-0.024 0.630 407	-0.040 0.426 407	-0.104 0.036 407
P6C3 Changes: medical problems w/family	0.220 0.000 406	0.016 0.744 407	0.131 0.008 407	0.052 0.291 407	0.083 0.117 356	-0.183 0.000 406	-0.039 0.430 407	0.072 0.144 407	-0.058 0.244 407	-0.015 0.762 407	0.043 0.392 407
P6C4 Changes: death of important person	0.159 0.001 406	-0.061 0.220 407	-0.030 0.543 407	0.032 0.525 407	-0.088 0.098 356	-0.236 0.000 406	0.062 0.213 407	0.012 0.807 407	0.051 0.305 407	-0.059 0.232 407	0.021 0.671 407
P6C5 Changes: divorce of TC's parents	0.159 0.001 406	0.047 0.348 407	0.128 0.010 407	0.054 0.277 407	0.094 0.077 356	-0.059 0.234 406	-0.064 0.196 407	0.083 0.096 407	-0.067 0.175 407	-0.015 0.758 407	-0.155 0.002 407
P6C6 Changes: separation of TC's parents	0.058 0.242 406	0.043 0.382 407	0.045 0.366 407	0.027 0.587 407	0.091 0.088 356	-0.053 0.290 406	-0.006 0.905 407	0.012 0.806 407	0.010 0.835 407	-0.040 0.423 407	-0.049 0.326 407
P6C7 Changes: remarriage/reconciliation	-0.003 0.959 406	0.015 0.759 407	0.026 0.603 407	0.019 0.703 407	0.022 0.673 356	0.059 0.238 406	-0.067 0.177 407	0.085 0.087 407	-0.070 0.159 407	-0.051 0.305 407	-0.056 0.259 407
P6C8 Changes: parent/child separation	0.233 0.000 406	0.106 0.032 407	0.119 0.017 407	0.046 0.354 407	0.175 0.001 356	-0.191 0.000 406	-0.186 0.000 407	0.115 0.020 407	-0.162 0.001 407	-0.104 0.036 407	-0.130 0.008 407
P6C9 Changes: financial problems	0.256 0.000 406	0.039 0.431 407	0.262 0.000 407	0.328 0.000 407	0.148 0.005 356	-0.220 0.000 406	-0.136 0.006 407	0.163 0.001 407	-0.103 0.038 407	-0.209 0.000 407	-0.167 0.001 407
P6C10 Changes: legal problems	0.287 0.000 406	0.064 0.197 407	0.169 0.001 407	0.289 0.000 407	0.155 0.003 356	-0.148 0.003 406	-0.088 0.078 407	0.064 0.200 407	-0.077 0.119 407	-0.037 0.461 407	-0.124 0.012 407
P6C11 Changes: drug/alcohol use	0.289 0.000 406	0.014 0.783 406	-0.003 0.950 406	0.131 0.008 406	0.086 0.107 355	-0.158 0.001 406	-0.023 0.644 406	0.060 0.230 406	-0.042 0.399 406	-0.077 0.120 406	-0.019 0.698 406
P6C12 Changes: stress/conflicts	1.000 406	0.048 0.337 406	0.215 0.000 406	0.122 0.014 406	0.257 0.000 355	-0.287 0.000 406	-0.202 0.000 406	0.152 0.002 406	-0.126 0.011 406	-0.135 0.006 406	-0.152 0.002 406
P6C13 Changes: pregnancies/miscarriages	0.048 0.337 406	1.000 407	0.099 0.046 407	0.037 0.461 407	0.066 0.213 356	0.067 0.179 406	-0.004 0.938 407	0.067 0.177 407	-0.039 0.435 407	-0.041 0.409 407	0.014 0.786 407
P6C14 Changes: job-related stress	0.215 0.000 406	0.099 0.046 407	1.000 407	0.176 0.000 407	0.176 0.001 356	-0.187 0.000 406	-0.107 0.032 407	0.134 0.007 407	-0.133 0.007 407	-0.104 0.036 407	-0.105 0.034 407
P6C15 Changes: loss of job	0.122 0.014 406	0.037 0.461 407	0.176 0.000 407	1.000 407	0.059 0.267 356	-0.132 0.008 406	-0.068 0.174 407	0.046 0.359 407	-0.035 0.477 407	-0.076 0.126 407	-0.086 0.082 407
P6C16 Changes: other	0.257 0.000 355	0.066 0.213 356	0.176 0.001 356	0.059 0.267 356	1.000 356	-0.171 0.001 355	-0.172 0.001 356	0.163 0.002 356	-0.135 0.011 356	-0.109 0.039 356	-0.174 0.001 356
P6C17 TC: reaction to changes	-0.287 0.000 406	0.067 0.179 406	-0.187 0.000 406	-0.132 0.008 406	-0.171 0.001 355	1.000 406	0.258 0.000 406	-0.123 0.013 406	0.130 0.009 406	0.164 0.001 406	0.197 0.000 406

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P6C12	P6C13	P6C14	P6C15	P6C16	P6C17	P6C18	P6C19	P6C20	P6C21	P6C22
P6C18 p-rating #1: satisfaction w/parent role	-0.202 0.000 406	-0.004 0.938 407	-0.107 0.032 407	-0.068 0.174 407	-0.172 0.001 356	0.258 0.000 406	1.000 0.000 407	-0.411 0.000 407	0.506 0.000 407	0.426 0.000 407	0.494 0.000 407
P6C19 p-rating #2: child difficulty	0.152 0.002 406	0.067 0.177 407	0.134 0.007 407	0.046 0.359 407	0.163 0.002 356	-0.123 0.013 406	-0.411 0.000 407	1.000 0.000 407	-0.427 0.000 407	-0.470 0.000 407	-0.429 0.000 407
P6C20 p-rating #3: parent-child relationship	-0.126 0.011 406	-0.039 0.435 407	-0.133 0.007 407	-0.035 0.477 407	-0.135 0.011 356	0.130 0.009 406	0.506 0.000 407	-0.427 0.000 407	1.000 0.000 407	0.462 0.000 407	0.463 0.000 407
P6C21 p-rating #4: satisfaction child behav	-0.135 0.006 406	-0.041 0.409 407	-0.104 0.036 407	-0.076 0.126 407	-0.109 0.039 356	0.164 0.001 406	0.426 0.000 407	-0.470 0.000 407	0.462 0.000 407	1.000 0.000 407	0.492 0.000 407
P6C22 i-rating #1: parent description of TC	-0.152 0.002 406	0.014 0.786 407	-0.105 0.034 407	-0.086 0.082 407	-0.174 0.001 356	0.197 0.000 406	0.494 0.000 407	-0.429 0.000 407	0.463 0.000 407	0.492 0.000 407	1.000 0.000 407
P6C23 i-rating #2: parent insight about TC	0.001 0.983 405	-0.032 0.524 406	-0.061 0.223 406	-0.085 0.087 406	-0.058 0.278 356	0.092 0.064 405	0.254 0.000 406	-0.274 0.000 406	0.258 0.000 406	0.266 0.000 406	0.537 0.000 406
P6C24 i-rating #3: parent affect	-0.179 0.000 405	0.006 0.899 406	-0.068 0.173 406	-0.082 0.098 406	-0.147 0.005 356	0.193 0.000 405	0.364 0.000 406	-0.369 0.000 406	0.394 0.000 406	0.386 0.000 406	0.660 0.000 406
P6C25 i-rating #4: parent-child relationship	-0.091 0.068 404	0.036 0.466 405	-0.022 0.652 405	-0.113 0.023 405	-0.107 0.044 354	0.207 0.000 404	0.352 0.000 405	-0.369 0.000 405	0.369 0.000 405	0.365 0.000 405	0.661 0.000 405
P6C74 TC receive Tx for emot. diff.	0.138 0.005 406	-0.033 0.511 407	0.064 0.199 407	0.139 0.005 407	0.108 0.041 356	-0.165 0.001 406	-0.310 0.000 407	0.291 0.000 407	-0.277 0.000 407	-0.263 0.000 407	-0.286 0.000 407
P6C75 Type of Tx facility-TC	-0.131 0.330 57	-0.101 0.453 57	-0.180 0.181 57	-0.008 0.951 57	-0.049 0.739 49	0.136 0.314 57	0.363 0.006 57	-0.227 0.089 57	0.228 0.088 57	0.263 0.048 57	0.291 0.028 57
P6C76 TC receive Rx for behav./attn. prob.	0.101 0.042 405	0.046 0.360 406	0.150 0.003 406	0.102 0.041 406	0.092 0.083 355	-0.105 0.035 405	-0.286 0.000 406	0.296 0.000 406	-0.208 0.000 406	-0.188 0.000 406	-0.204 0.000 406
P6C77 Respondent receive Tx	0.266 0.000 405	0.050 0.317 406	0.152 0.002 406	0.101 0.042 406	0.094 0.078 355	-0.144 0.004 405	-0.141 0.004 406	0.142 0.004 406	-0.122 0.014 406	-0.066 0.187 406	-0.109 0.029 406
P6C78 Type of Tx facility-Respondent	0.130 0.345 55	0.063 0.647 55	0.004 0.975 55	-0.117 0.393 55	0.165 0.289 43	0.054 0.694 55	0.150 0.276 55	-0.054 0.698 55	0.016 0.905 55	-0.038 0.780 55	-0.058 0.676 55
P6C79 Others in family receive Tx	0.230 0.000 403	0.009 0.860 404	0.056 0.260 404	0.054 0.282 404	0.122 0.022 353	-0.137 0.006 403	-0.189 0.000 404	0.097 0.051 404	-0.110 0.027 404	-0.089 0.075 404	-0.088 0.077 404
P6C80 Which other family-Tx	-0.022 0.876 52	-0.166 0.241 52	-0.165 0.243 52	0.096 0.498 52	-0.040 0.793 45	0.276 0.047 52	0.191 0.175 52	0.018 0.900 52	0.179 0.203 52	0.164 0.245 52	0.046 0.749 52

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P6C23	P6C24	P6C25	P6C74	P6C75	P6C76	P6C77	P6C78	P6C79	P6C80
P6C1 Changes: moved/major remodeling	-0.035 0.479 406	-0.135 0.006 406	-0.122 0.014 405	0.013 0.794 407	-0.002 0.988 57	0.092 0.063 406	-0.001 0.979 406	-0.241 0.077 55	0.088 0.076 404	0.019 0.891 52
P6C2 Changes: medical problems w/TC	-0.042 0.397 406	-0.081 0.102 406	-0.078 0.117 405	0.156 0.002 407	-0.055 0.684 57	0.128 0.010 406	0.079 0.112 406	-0.052 0.704 55	0.072 0.146 404	-0.051 0.720 52
P6C3 Changes: medical problems w/family	0.087 0.080 406	0.018 0.719 406	0.021 0.669 405	0.077 0.120 407	0.050 0.714 57	0.038 0.440 406	0.061 0.224 406	0.097 0.481 55	0.143 0.004 404	-0.291 0.037 52
P6C4 Changes: death of important person	-0.034 0.490 406	-0.005 0.919 406	-0.019 0.698 405	-0.009 0.854 407	0.196 0.143 57	-0.010 0.840 406	-0.005 0.924 406	-0.050 0.715 55	-0.006 0.910 404	-0.174 0.217 52
P6C5 Changes: divorce of TC's parents	-0.070 0.159 406	-0.168 0.001 406	-0.147 0.003 405	0.089 0.073 407	0.093 0.490 57	-0.020 0.691 406	0.108 0.029 406	0.091 0.510 55	0.070 0.163 404	0.177 0.209 52
P6C6 Changes: separation of TC's parents	-0.041 0.412 406	-0.062 0.213 406	-0.047 0.345 405	0.072 0.150 407	0.093 0.489 57	-0.079 0.110 406	0.051 0.301 406	-0.049 0.720 55	0.169 0.001 404	0.480 0.000 52
P6C7 Changes: remarriage/reconciliation	-0.108 0.030 406	-0.045 0.367 406	-0.074 0.138 405	0.056 0.264 407	-0.006 0.965 57	0.078 0.115 406	0.014 0.786 406	-0.135 0.325 55	0.063 0.208 404	0.100 0.479 52
P6C8 Changes: parent/child separation	0.012 0.810 406	-0.071 0.154 406	-0.050 0.312 405	0.133 0.007 407	-0.133 0.323 57	0.184 0.000 406	0.137 0.006 406	0.013 0.927 55	0.149 0.003 404	-0.132 0.350 52
P6C9 Changes: financial problems	-0.037 0.457 406	-0.137 0.006 406	-0.133 0.007 405	0.178 0.000 407	-0.079 0.559 57	0.105 0.034 406	0.115 0.020 406	0.187 0.172 55	0.219 0.000 404	-0.013 0.929 52
P6C10 Changes: legal problems	-0.021 0.667 406	-0.150 0.002 406	-0.117 0.018 405	0.141 0.004 407	-0.130 0.337 57	0.064 0.195 406	0.148 0.003 406	0.078 0.572 55	0.153 0.002 404	-0.019 0.892 52
P6C11 Changes: drug/alcohol use	0.027 0.581 405	-0.078 0.115 405	-0.072 0.149 404	0.066 0.183 406	0.019 0.889 57	-0.007 0.885 405	0.091 0.067 405	0.214 0.117 55	0.220 0.000 403	0.107 0.448 52
P6C12 Changes: stress/conflicts	0.001 0.983 405	-0.179 0.000 405	-0.091 0.068 404	0.138 0.005 406	-0.131 0.330 57	0.101 0.042 405	0.266 0.000 405	0.130 0.345 55	0.230 0.000 403	-0.022 0.876 52
P6C13 Changes: pregnancies/miscarriages	-0.032 0.524 406	0.006 0.899 406	0.036 0.466 405	-0.033 0.511 407	-0.101 0.453 57	0.046 0.360 406	0.050 0.317 406	0.063 0.647 55	0.009 0.860 404	-0.166 0.241 52
P6C14 Changes: job-related stress	-0.061 0.223 406	-0.068 0.173 406	-0.022 0.652 405	0.064 0.199 407	-0.180 0.181 57	0.150 0.003 406	0.152 0.002 406	0.004 0.975 55	0.056 0.260 404	-0.165 0.243 52
P6C15 Changes: loss of job	-0.085 0.087 406	-0.082 0.098 406	-0.113 0.023 405	0.139 0.005 407	-0.008 0.951 57	0.102 0.041 406	0.101 0.042 406	-0.117 0.393 55	0.054 0.282 404	0.096 0.498 52
P6C16 Changes: other	-0.058 0.278 356	-0.147 0.005 356	-0.107 0.044 354	0.108 0.041 356	-0.049 0.739 49	0.092 0.083 355	0.094 0.078 355	0.165 0.289 43	0.122 0.022 353	-0.040 0.793 45
P6C17 TC: reaction to changes	0.092 0.064 405	0.193 0.000 405	0.207 0.000 404	-0.165 0.001 406	0.136 0.314 57	-0.105 0.035 405	-0.144 0.004 405	0.054 0.694 55	-0.137 0.006 403	0.276 0.047 52

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P6C23	P6C24	P6C25	P6C74	P6C75	P6C76	P6C77	P6C78	P6C79	P6C80
P6C18 p-rating #1: satisfaction w/parent role	0.254 0.000 406	0.364 0.000 406	0.352 0.000 405	-0.310 0.000 407	0.363 0.006 57	-0.286 0.000 406	-0.141 0.004 406	0.150 0.276 55	-0.189 0.000 404	0.191 0.175 52
P6C19 p-rating #2: child difficulty	-0.274 0.000 406	-0.369 0.000 406	-0.369 0.000 405	0.291 0.000 407	-0.227 0.089 57	0.296 0.000 406	0.142 0.004 406	-0.054 0.698 55	0.097 0.051 404	0.018 0.900 52
P6C20 p-rating #3: parent-child relationship	0.258 0.000 406	0.394 0.000 406	0.369 0.000 405	-0.277 0.000 407	0.228 0.088 57	-0.208 0.000 406	-0.122 0.014 406	0.016 0.905 55	-0.110 0.027 404	0.179 0.203 52
P6C21 p-rating #4: satisfaction child behav	0.266 0.000 406	0.386 0.000 406	0.365 0.000 405	-0.263 0.000 407	0.263 0.048 57	-0.188 0.000 406	-0.066 0.187 406	-0.038 0.780 55	-0.089 0.075 404	0.164 0.245 52
P6C22 i-rating #1: parent description of TC	0.537 0.000 406	0.660 0.000 406	0.661 0.000 405	-0.286 0.000 407	0.291 0.028 57	-0.204 0.000 406	-0.109 0.029 406	-0.058 0.676 55	-0.088 0.077 404	0.046 0.749 52
P6C23 i-rating #2: parent insight about TC	1.000 406	0.612 0.000 406	0.631 0.000 404	-0.096 0.052 406	0.132 0.328 57	-0.112 0.025 405	-0.066 0.187 405	0.143 0.299 55	-0.012 0.816 403	0.219 0.118 52
P6C24 i-rating #3: parent affect	0.612 0.000 406	1.000 406	0.780 0.000 404	-0.226 0.000 406	0.250 0.060 57	-0.176 0.000 405	-0.106 0.032 405	-0.009 0.947 55	-0.178 0.000 403	0.093 0.512 52
P6C25 i-rating #4: parent-child relationship	0.631 0.000 404	0.780 0.000 404	1.000 405	-0.291 0.000 405	0.210 0.117 57	-0.150 0.002 404	-0.076 0.128 404	0.134 0.329 55	-0.135 0.007 402	0.139 0.332 51
P6C74 TC receive Tx for emot. diff.	-0.096 0.052 406	-0.226 0.000 406	-0.291 0.000 405	1.000 407	0.309 0.019 57	0.488 0.000 406	0.309 0.000 406	-0.101 0.464 55	0.184 0.000 404	-0.029 0.839 52
P6C75 Type of Tx facility-TC	0.132 0.328 57	0.250 0.060 57	0.210 0.117 57	0.309 0.019 57	1.000 57	-0.236 0.077 57	-0.381 0.003 57	-0.147 0.493 24	-0.182 0.179 56	0.361 0.169 16
P6C76 TC receive Rx for behav./attn. prob.	-0.112 0.025 405	-0.176 0.000 405	-0.150 0.002 404	0.488 0.000 406	-0.236 0.077 57	1.000 406	0.252 0.000 405	-0.183 0.180 55	0.131 0.009 403	-0.076 0.592 52
P6C77 Respondent receive Tx	-0.066 0.187 405	-0.106 0.032 405	-0.076 0.128 404	0.309 0.000 406	-0.381 0.003 57	0.252 0.000 405	1.000 406	0.213 0.119 55	0.249 0.000 403	-0.032 0.823 52
P6C78 Type of Tx facility-Respondent	0.143 0.299 55	-0.009 0.947 55	0.134 0.329 55	-0.101 0.464 55	-0.147 0.493 24	-0.183 0.180 55	0.213 0.119 55	1.000 55	-0.015 0.914 55	-0.335 0.161 19
P6C79 Others in family receive Tx	-0.012 0.816 403	-0.178 0.000 403	-0.135 0.007 402	0.184 0.000 404	-0.182 0.179 56	0.131 0.009 403	0.249 0.000 403	-0.015 0.914 55	1.000 404	. . 52
P6C80 Which other family-Tx	0.219 0.118 52	0.093 0.512 52	0.139 0.332 51	-0.029 0.839 52	0.361 0.169 16	-0.076 0.592 52	-0.032 0.823 52	-0.335 0.161 19	. . 52	1.000 52

Scale Correlations

Pearson Correlation Coefficients, N = 407 Prob > r under H0: Rho=0			
	LCH6qob	LCH6qpr	LCH6str
LCH6qob Y6 LC Quality Parent-Child Relat_Observer	1.000	0.560 0.000	-0.184 0.000
LCH6qpr Y6 LC Quality Parent-Child Relat_Parent	0.560 0.000	1.000	-0.252 0.000
LCH6str Y6 LC Stress Scale sum score	-0.184 0.000	-0.252 0.000	1.000

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