

Life Changes
Grade 8/Year 9
Fast Track Project Technical Report
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November 22, 2002

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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: P9C

Scored: LCH9

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 ninth year of the study. Overall, 94 records were missing the whole measure. 29 were missing from the control sample (5 from Durham, 9 from Nashville, 7 from Pennsylvania, and 8 from Washington) and 81 were missing from the normative sample (15 from Durham, 30 from Nashville, 17 from Pennsylvania, and 19 from Washington).

In addition, it should be noted that 283 records were missing 3 or more items; of these, 81 were from the control sample (27 from Durham, 15 from Nashville, 19 from Pennsylvania, and 20 from Washington) and 243 were from the normative sample (74 from Durham, 49 from Nashville, 66 from Pennsylvania, and 54 from Washington); a number of these were from the overlap sample.

Four items in particular were missing responses: how the child reacted to the changes during the previous year (78 missing), what type of treatment facility the child had used for emotional or behavioral difficulties in the past year (317 missing), what type of treatment facility the respondent had used in the past year (334 missing) and which other member of the family had received treatment (325 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
Y9 LC Quality Parent-Child Relat_ Observ (LCH9qob)	0.85	0.86
Y9 LC Quality Parent-Child Relat_Parent (LCH9qpr)	0.75	0.80
Y9 LC Stress Scale sum score (LCH9str)	0.63	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 all three subscales. Two of the subscales, the *Quality of the Parent-Child Relationship-parent version* and the *Quality of the Parent-Child Relationship-observer version*, showed the mean for the normative sample to be greater than the mean for the control sample.

Several of the items not included in the scales also indicated significant differences between the normative and control samples. They were whether the child had received treatment for emotional or behavioral difficulties (P9C74), whether the child had received medication to control behavior or attention (P9C76), and whether the respondent had received treatment during the past year for personal or emotional difficulties (P9C77). The mean for the control sample was higher than that for the normative sample for all three items.

Comparison of Means for Normative and Control for Scales							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
Y9 LC Quality Parent-Child Relat_ Observer (LCH9qob)	3.96	0.68	3.57	0.77	367	-5.07	<.0001
Y9 LC Quality Parent-Child Relat_Parent (LCH9qpr)	4.04	0.65	3.60	0.84	204	-5.20	<.0001
Y9 LC Stress Scale sum score (LCH9str)	3.29	3.34	3.92	3.85	367	1.63	0.1048

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 (P9C17)	2.69	1.17	2.50	1.16	289	-1.30	0.1943
13. TC treated emot/beh difficulties (P9C74)	0.08	0.28	0.26	0.44	177	4.17	<.0001
13a. facility where TC treated (P9C75)	2.35	0.59	2.09	0.53	50	-1.63	0.1101
14. medication to control beh/attent (P9C76)	0.03	0.18	0.21	0.41	150	4.72	<.0001

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 (P9C77)	0.07	0.25	0.17	0.37	184	2.73	0.0070
15a. facility where resp treated (P9C78)	2.40	1.06	2.40	1.14	33	0.00	1.0000
16. others receive treatment (P9C79)	0.10	0.30	0.16	0.37	208	1.62	0.1068
16a. which member was treated (P9C80)	2.38	0.49	2.25	0.44	42	-0.87	0.3872

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 P9C11a asked the respondent to specify which person had been involved with drug use, alcohol use, or addiction during the past year. Item P9C16a asked the respondent to specify any life changes not previously mentioned in the list. Item P9C75a 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 P9C78a 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 P9C17A-P9C17D were the respondent's answers to a series of four questions about the child. These questions were: what is the child like (P9C17A), how well do the respondent and the child get along (P9C17B), what is the best thing about the child (P9C17C), and what is the most troubling thing about the child/concerns about the child (P9C17D).

VI. Item and Scale Means and SDs

Descriptive Statistics for Items - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P9C1	1. changes: moved/major remodeling	126	0.38	0.73	0.00	2.00
P9C2	1. changes: medical problems w/TC	126	0.28	0.64	0.00	2.00
P9C3	1. changes: medical problems w/family	126	0.52	0.82	0.00	2.00
P9C4	1. changes: death of important person	126	0.42	0.74	0.00	2.00
P9C5	1. changes: divorce of TCs parents	126	0.00	0.00	0.00	0.00
P9C6	1. changes: separation of TCs parents	126	0.04	0.27	0.00	2.00
P9C7	1. changes: remarriage/reconciliation	126	0.02	0.20	0.00	2.00
P9C8	1. changes: parent/child separation	126	0.35	0.68	0.00	2.00
P9C9	1. changes: financial problems	126	0.39	0.68	0.00	2.00
P9C10	1. changes: legal problems	126	0.21	0.56	0.00	2.00
P9C11	1. changes: drug/alcohol use	126	0.25	0.62	0.00	2.00
P9C12	1. changes: stress/conflicts	126	0.24	0.60	0.00	2.00
P9C13	1. changes: pregnancies, miscarriages	126	0.11	0.42	0.00	2.00
P9C14	1. changes: job-related stress	126	0.36	0.65	0.00	2.00
P9C15	1. changes: loss of job	126	0.13	0.46	0.00	2.00
P9C16	1. changes: other	126	0.22	0.59	0.00	2.00
P9C17	2. TC reaction to changes	103	2.50	1.16	1.00	5.00
P9C18	p-rating 1. satisfaction w/parent role	126	3.94	1.07	1.00	5.00
P9C19	p-rating 2. child difficulty	126	3.04	1.03	1.00	5.00
P9C20	p-rating 3. parent-child relation	126	4.08	0.98	1.00	5.00
P9C21	p-rating 4. satisfaction child behav	126	3.41	1.15	1.00	5.00
P9C22	i-rating 1. parent description of TC	126	3.79	0.96	1.00	5.00
P9C23	i-rating 2. parent insight about TC	126	3.40	0.98	1.00	5.00
P9C24	i-rating 3. parent affect	126	3.63	0.80	2.00	5.00
P9C25	i-rating 4. parent-child relationship	126	3.45	0.91	1.00	5.00
P9C74	13. TC treated emot/beh difficulties	126	0.26	0.44	0.00	1.00
P9C75	13a. facility where TC treated	32	2.09	0.53	1.00	3.00
P9C76	14. medication to control beh/attent	126	0.21	0.41	0.00	1.00
P9C77	15. respondent received treatment	126	0.17	0.37	0.00	1.00
P9C78	15a. facility where resp treated	20	2.40	1.14	1.00	4.00
P9C79	16. others receive treatment	124	0.16	0.37	0.00	1.00
P9C80	16a. which member was treated	20	2.25	0.44	2.00	3.00

Descriptive Statistics for Items - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P9C1	1. changes: moved/major remodeling	306	0.37	0.71	0.00	2.00
P9C2	1. changes: medical problems w/TC	306	0.21	0.56	0.00	2.00
P9C3	1. changes: medical problems w/family	306	0.45	0.78	0.00	2.00
P9C4	1. changes: death of important person	306	0.47	0.82	0.00	2.00
P9C5	1. changes: divorce of TCs parents	306	0.02	0.21	0.00	2.00
P9C6	1. changes: separation of TCs parents	306	0.08	0.37	0.00	2.00
P9C7	1. changes: remarriage/reconciliation	306	0.04	0.24	0.00	2.00
P9C8	1. changes: parent/child separation	306	0.22	0.54	0.00	2.00
P9C9	1. changes: financial problems	306	0.33	0.65	0.00	2.00
P9C10	1. changes: legal problems	306	0.19	0.56	0.00	2.00
P9C11	1. changes: drug/alcohol use	306	0.16	0.51	0.00	2.00
P9C12	1. changes: stress/conflicts	306	0.21	0.55	0.00	2.00
P9C13	1. changes: pregnancies, miscarriages	306	0.10	0.41	0.00	2.00
P9C14	1. changes: job-related stress	306	0.34	0.64	0.00	2.00
P9C15	1. changes: loss of job	306	0.11	0.41	0.00	2.00
P9C16	1. changes: other	306	0.19	0.55	0.00	2.00
P9C17	2. TC reaction to changes	241	2.64	1.18	1.00	5.00
P9C18	p-rating 1. satisfaction w/parent role	306	4.32	0.92	1.00	5.00
P9C19	p-rating 2. child difficulty	306	2.74	0.95	1.00	5.00
P9C20	p-rating 3. parent-child relation	306	4.35	0.81	1.00	5.00
P9C21	p-rating 4. satisfaction child behav	306	3.93	0.98	1.00	5.00
P9C22	i-rating 1. parent description of TC	306	4.13	0.89	1.00	5.00
P9C23	i-rating 2. parent insight about TC	306	3.64	0.94	1.00	5.00
P9C24	i-rating 3. parent affect	306	3.93	0.73	1.00	5.00
P9C25	i-rating 4. parent-child relationship	305	3.78	0.85	1.00	5.00
P9C74	13. TC treated emot/beh difficulties	306	0.11	0.32	0.00	1.00
P9C75	13a. facility where TC treated	35	2.26	0.51	1.00	3.00
P9C76	14. medication to control beh/attent	306	0.07	0.25	0.00	1.00
P9C77	15. respondent received treatment	306	0.08	0.28	0.00	1.00
P9C78	15a. facility where resp treated	25	2.24	1.09	1.00	4.00
P9C79	16. others receive treatment	305	0.12	0.32	0.00	1.00
P9C80	16a. which member was treated	36	2.36	0.49	2.00	3.00

Descriptive Statistics for Subscales - High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH9qob	Y9 LC Quality Parent-Child Relat_Observer	126	3.57	0.77	1.50	5.00
LCH9qpr	Y9 LC Quality Parent-Child Relat_Parent	126	3.60	0.84	1.00	5.00
LCH9str	Y9 LC Stress Scale sum score	126	3.92	3.85	0.00	18.00

Descriptive Statistics for Subscales - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
LCH9qob	Y9 LC Quality Parent-Child Relat_Observer	306	3.87	0.71	1.50	5.00
LCH9qpr	Y9 LC Quality Parent-Child Relat_Parent	306	3.96	0.69	1.00	5.00
LCH9str	Y9 LC Stress Scale sum score	306	3.49	3.48	0.00	17.00

VII. Item and Scale Correlations

Item Correlations

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P9C1	P9C2	P9C3	P9C4	P9C5	P9C6	P9C7	P9C8	P9C9	P9C10	P9C11
P9C1 1. changes: moved/major remodeling	1.000 0.078 369	0.092 0.078 369	0.059 0.254 369	-0.003 0.952 369	0.052 0.317 369	0.211 0.000 369	0.033 0.532 369	0.125 0.016 369	0.187 0.000 369	0.110 0.035 369	0.105 0.043 369
P9C2 1. changes: medical problems w/TC	0.092 0.078 369	1.000 0.005 369	0.146 0.005 369	0.037 0.480 369	0.112 0.031 369	0.032 0.538 369	-0.062 0.235 369	0.018 0.734 369	0.100 0.054 369	0.008 0.875 369	0.111 0.033 369
P9C3 1. changes: medical problems w/family	0.059 0.254 369	0.146 0.005 369	1.000 0.024 369	0.117 0.778 369	0.015 0.917 369	0.005 0.917 369	0.023 0.662 369	0.145 0.005 369	0.168 0.001 369	0.144 0.006 369	0.186 0.000 369
P9C4 1. changes: death of important person	-0.003 0.952 369	0.037 0.480 369	0.117 0.024 369	1.000 0.267 369	-0.058 0.392 369	0.045 0.392 369	0.023 0.662 369	-0.056 0.286 369	-0.046 0.377 369	-0.022 0.672 369	-0.028 0.593 369
P9C5 1. changes: divorce of TCs parents	0.052 0.317 369	0.112 0.031 369	0.015 0.778 369	-0.058 0.267 369	1.000 0.000 369	0.477 0.000 369	-0.016 0.760 369	0.114 0.029 369	0.080 0.124 369	0.181 0.000 369	-0.033 0.525 369
P9C6 1. changes: separation of TCs parents	0.211 0.000 369	0.032 0.538 369	0.005 0.917 369	0.045 0.392 369	0.477 0.000 369	1.000 0.000 369	0.290 0.000 369	0.155 0.003 369	0.160 0.002 369	0.165 0.001 369	0.042 0.420 369
P9C7 1. changes: remarriage/reconciliation	0.033 0.532 369	-0.062 0.235 369	0.023 0.662 369	0.023 0.662 369	-0.016 0.760 369	0.290 0.000 369	1.000 0.000 369	0.116 0.026 369	0.124 0.017 369	0.030 0.560 369	0.058 0.268 369
P9C8 1. changes: parent/child separation	0.125 0.016 369	0.018 0.734 369	0.145 0.005 369	-0.056 0.286 369	0.114 0.029 369	0.155 0.003 369	0.116 0.026 369	1.000 0.000 369	0.327 0.000 369	0.266 0.000 369	0.167 0.001 369
P9C9 1. changes: financial problems	0.187 0.000 369	0.100 0.054 369	0.168 0.001 369	-0.046 0.377 369	0.080 0.124 369	0.160 0.002 369	0.124 0.017 369	0.327 0.000 369	1.000 0.000 369	0.379 0.000 369	0.346 0.000 369
P9C10 1. changes: legal problems	0.110 0.035 369	0.008 0.875 369	0.144 0.006 369	-0.022 0.672 369	0.181 0.000 369	0.165 0.001 369	0.030 0.560 369	0.266 0.000 369	0.379 0.000 369	1.000 0.000 369	0.487 0.000 369
P9C11 1. changes: drug/alcohol use	0.105 0.043 369	0.111 0.033 369	0.186 0.000 369	-0.028 0.593 369	-0.033 0.525 369	0.042 0.420 369	0.058 0.268 369	0.167 0.001 369	0.346 0.000 369	0.487 0.000 369	1.000 0.000 369
P9C12 1. changes: stress/conflicts	0.104 0.045 369	0.104 0.045 369	0.267 0.000 369	0.031 0.557 369	0.117 0.024 369	0.120 0.021 369	-0.020 0.700 369	0.225 0.000 369	0.336 0.000 369	0.350 0.000 369	0.377 0.000 369
P9C13 1. changes: pregnancies, miscarriages	0.069 0.186 369	0.179 0.001 369	0.085 0.104 369	0.133 0.011 369	0.112 0.032 369	0.171 0.001 369	0.066 0.208 369	-0.073 0.162 369	0.149 0.004 369	-0.029 0.573 369	0.052 0.321 369
P9C14 1. changes: job-related stress	0.060 0.252 369	0.080 0.126 369	0.188 0.000 369	0.083 0.110 369	0.085 0.103 369	0.120 0.021 369	-0.047 0.368 369	0.255 0.000 369	0.287 0.000 369	0.239 0.000 369	0.155 0.003 369
P9C15 1. changes: loss of job	0.009 0.859 369	-0.012 0.812 369	0.052 0.321 369	-0.012 0.821 369	-0.029 0.579 369	0.180 0.001 369	0.139 0.007 369	0.121 0.020 369	0.326 0.000 369	0.033 0.524 369	0.129 0.013 369

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P9C1	P9C2	P9C3	P9C4	P9C5	P9C6	P9C7	P9C8	P9C9	P9C10	P9C11
P9C16 1. changes: other	0.003 0.954 369	0.049 0.347 369	0.025 0.634 369	-0.065 0.211 369	0.016 0.753 369	-0.054 0.305 369	-0.035 0.506 369	0.014 0.791 369	0.122 0.019 369	0.080 0.124 369	0.121 0.020 369
P9C17 2. TC reaction to changes	0.101 0.086 291	-0.028 0.639 291	-0.006 0.920 291	-0.092 0.119 291	0.037 0.533 291	0.085 0.148 291	-0.062 0.288 291	-0.073 0.213 291	-0.024 0.686 291	-0.073 0.212 291	-0.097 0.100 291
P9C18 p-rating 1. satisfaction w/parent role	0.019 0.716 369	-0.097 0.063 369	-0.031 0.547 369	-0.058 0.270 369	0.035 0.500 369	-0.022 0.678 369	-0.060 0.253 369	-0.056 0.287 369	0.005 0.923 369	-0.048 0.355 369	-0.076 0.143 369
P9C19 p-rating 2. child difficulty	-0.025 0.626 369	0.092 0.077 369	-0.017 0.751 369	-0.027 0.599 369	-0.039 0.461 369	-0.055 0.291 369	0.102 0.049 369	0.095 0.069 369	0.117 0.025 369	0.112 0.031 369	0.106 0.041 369
P9C20 p-rating 3. parent-child relation	0.024 0.642 369	-0.126 0.015 369	-0.073 0.160 369	0.082 0.118 369	-0.035 0.498 369	0.015 0.778 369	-0.081 0.119 369	-0.084 0.106 369	-0.156 0.003 369	-0.094 0.072 369	-0.220 0.000 369
P9C21 p-rating 4. satisfaction child behav	-0.084 0.108 369	-0.124 0.017 369	-0.094 0.071 369	-0.009 0.868 369	0.002 0.971 369	-0.036 0.486 369	-0.136 0.009 369	-0.213 0.000 369	-0.278 0.000 369	-0.149 0.004 369	-0.276 0.000 369
P9C22 i-rating 1. parent description of TC	-0.035 0.501 369	-0.245 0.000 369	-0.011 0.832 369	0.001 0.991 369	0.008 0.877 369	-0.049 0.347 369	-0.049 0.345 369	-0.100 0.054 369	-0.136 0.009 369	-0.143 0.006 369	-0.188 0.000 369
P9C23 i-rating 2. parent insight about TC	0.010 0.853 369	-0.054 0.300 369	0.047 0.372 369	0.066 0.206 369	-0.052 0.320 369	-0.079 0.131 369	-0.009 0.868 369	-0.002 0.972 369	-0.048 0.358 369	-0.111 0.033 369	-0.116 0.026 369
P9C24 i-rating 3. parent affect	0.084 0.109 369	-0.172 0.001 369	0.054 0.303 369	-0.002 0.971 369	0.035 0.504 369	0.040 0.442 369	-0.095 0.069 369	-0.116 0.026 369	-0.041 0.435 369	-0.068 0.192 369	-0.152 0.003 369
P9C25 i-rating 4. parent-child relationship	0.026 0.620 368	-0.097 0.064 368	0.051 0.327 368	0.065 0.217 368	0.031 0.557 368	-0.003 0.954 368	-0.106 0.043 368	-0.102 0.051 368	-0.144 0.006 368	-0.155 0.003 368	-0.236 0.000 368
P9C74 13. TC treated emot/beh difficulties	0.035 0.500 369	0.245 0.000 369	0.086 0.098 369	0.095 0.067 369	-0.042 0.426 369	-0.035 0.502 369	0.064 0.222 369	0.109 0.036 369	0.201 0.000 369	0.149 0.004 369	0.257 0.000 369
P9C75 13a. facility where TC treated	0.129 0.362 52	-0.073 0.608 52	0.074 0.600 52	0.093 0.513 52	..br/>52	-0.048 0.733 52	-0.069 0.626 52	-0.179 0.205 52	0.384 0.005 52	0.101 0.476 52	-0.070 0.621 52
P9C76 14. medication to control beh/attent	0.021 0.690 369	0.132 0.011 369	0.106 0.042 369	0.093 0.073 369	-0.033 0.529 369	-0.010 0.851 369	0.102 0.049 369	0.017 0.745 369	0.143 0.006 369	-0.023 0.656 369	0.110 0.035 369
P9C77 15. respondent received treatment	0.024 0.645 369	0.169 0.001 369	0.174 0.001 369	0.036 0.495 369	-0.034 0.516 369	0.038 0.462 369	0.022 0.669 369	0.025 0.628 369	0.144 0.006 369	0.156 0.003 369	0.277 0.000 369
P9C78 15a. facility where resp treated	-0.116 0.507 35	0.225 0.193 35	0.000 1.000 35	0.356 0.036 35	..br/>35	0.137 0.431 35	-0.064 0.716 35	-0.121 0.488 35	0.018 0.917 35	-0.173 0.319 35	-0.127 0.467 35
P9C79 16. others receive treatment	0.051 0.331 366	0.118 0.024 366	0.136 0.009 366	0.008 0.872 366	-0.038 0.472 366	-0.024 0.647 366	0.046 0.383 366	0.062 0.233 366	0.149 0.004 366	0.161 0.002 366	0.228 0.000 366
P9C80 16a. which member was treated	0.043 0.782 44	-0.123 0.426 44	0.188 0.221 44	0.269 0.077 44	..br/>44	0.223 0.145 44	0.155 0.317 44	-0.033 0.830 44	0.108 0.484 44	-0.047 0.760 44	0.079 0.609 44

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P9C12	P9C13	P9C14	P9C15	P9C16	P9C17	P9C18	P9C19	P9C20	P9C21	P9C22
P9C1 1. changes: moved/major remodeling	0.104 0.045 369	0.069 0.186 369	0.060 0.252 369	0.009 0.859 369	0.003 0.954 369	0.101 0.086 291	0.019 0.716 369	-0.025 0.626 369	0.024 0.642 369	-0.084 0.108 369	-0.035 0.501 369
P9C2 1. changes: medical problems w/TC	0.104 0.045 369	0.179 0.001 369	0.080 0.126 369	-0.012 0.812 369	0.049 0.347 369	-0.028 0.639 291	-0.097 0.063 369	0.092 0.077 369	-0.126 0.015 369	-0.124 0.017 369	-0.245 0.000 369
P9C3 1. changes: medical problems w/family	0.267 0.000 369	0.085 0.104 369	0.188 0.000 369	0.052 0.321 369	0.025 0.634 369	-0.006 0.920 291	-0.031 0.547 369	-0.017 0.751 369	-0.073 0.160 369	-0.094 0.071 369	-0.011 0.832 369
P9C4 1. changes: death of important person	0.031 0.557 369	0.133 0.011 369	0.083 0.110 369	-0.012 0.821 369	-0.065 0.211 369	-0.092 0.119 291	-0.058 0.270 369	-0.027 0.599 369	0.082 0.118 369	-0.009 0.868 369	0.001 0.991 369
P9C5 1. changes: divorce of TCs parents	0.117 0.024 369	0.112 0.032 369	0.085 0.103 369	-0.029 0.579 369	0.016 0.753 369	0.037 0.533 291	0.035 0.500 369	-0.039 0.461 369	-0.035 0.498 369	0.002 0.971 369	0.008 0.877 369
P9C6 1. changes: separation of TCs parents	0.120 0.021 369	0.171 0.001 369	0.120 0.021 369	0.180 0.001 369	-0.054 0.305 369	0.085 0.148 291	-0.022 0.678 369	-0.055 0.291 369	0.015 0.778 369	-0.036 0.486 369	-0.049 0.347 369
P9C7 1. changes: remarriage/reconciliation	-0.020 0.700 369	0.066 0.208 369	-0.047 0.368 369	0.139 0.007 369	-0.035 0.506 369	-0.062 0.288 291	-0.060 0.253 369	0.102 0.049 369	-0.081 0.119 369	-0.136 0.009 369	-0.049 0.345 369
P9C8 1. changes: parent/child separation	0.225 0.000 369	-0.073 0.162 369	0.255 0.000 369	0.121 0.020 369	0.014 0.791 369	-0.073 0.213 291	-0.056 0.287 369	0.095 0.069 369	-0.084 0.106 369	-0.213 0.000 369	-0.100 0.054 369
P9C9 1. changes: financial problems	0.336 0.000 369	0.149 0.004 369	0.287 0.000 369	0.326 0.000 369	0.122 0.019 369	-0.024 0.686 291	0.005 0.923 369	0.117 0.025 369	-0.156 0.003 369	-0.278 0.000 369	-0.136 0.009 369
P9C10 1. changes: legal problems	0.350 0.000 369	-0.029 0.573 369	0.239 0.000 369	0.033 0.524 369	0.080 0.124 369	-0.073 0.212 291	-0.048 0.355 369	0.112 0.031 369	-0.094 0.072 369	-0.149 0.004 369	-0.143 0.006 369
P9C11 1. changes: drug/alcohol use	0.377 0.000 369	0.052 0.321 369	0.155 0.003 369	0.129 0.013 369	0.121 0.020 369	-0.097 0.100 291	-0.076 0.143 369	0.106 0.041 369	-0.220 0.000 369	-0.276 0.000 369	-0.188 0.000 369
P9C12 1. changes: stress/conflicts	1.000 369	0.119 0.022 369	0.240 0.000 369	0.073 0.164 369	0.153 0.003 369	0.063 0.281 291	-0.006 0.910 369	0.025 0.627 369	-0.123 0.018 369	-0.140 0.007 369	-0.057 0.277 369
P9C13 1. changes: pregnancies, miscarriages	0.119 0.022 369	1.000 369	0.015 0.775 369	0.030 0.562 369	0.000 1.000 369	0.059 0.316 291	-0.003 0.955 369	0.049 0.348 369	-0.039 0.454 369	-0.089 0.089 369	0.008 0.879 369
P9C14 1. changes: job-related stress	0.240 0.000 369	0.015 0.775 369	1.000 369	0.193 0.000 369	0.163 0.002 369	-0.021 0.720 291	-0.022 0.669 369	0.075 0.153 369	-0.087 0.096 369	-0.087 0.095 369	-0.012 0.813 369
P9C15 1. changes: loss of job	0.073 0.164 369	0.030 0.562 369	0.193 0.000 369	1.000 369	0.127 0.015 369	0.058 0.327 291	0.030 0.568 369	0.040 0.442 369	-0.032 0.539 369	-0.083 0.113 369	-0.022 0.672 369
P9C16 1. changes: other	0.153 0.003 369	0.000 1.000 369	0.163 0.002 369	0.127 0.015 369	1.000 369	0.132 0.024 291	0.095 0.067 369	-0.057 0.278 369	0.033 0.531 369	0.026 0.615 369	0.005 0.925 369
P9C17 2. TC reaction to changes	0.063 0.281 291	0.059 0.316 291	-0.021 0.720 291	0.058 0.327 291	0.132 0.024 291	1.000 291	0.276 0.000 291	-0.147 0.012 291	0.180 0.002 291	0.132 0.025 291	0.143 0.015 291

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	P9C12	P9C13	P9C14	P9C15	P9C16	P9C17	P9C18	P9C19	P9C20	P9C21	P9C22
P9C18 p-rating 1. satisfaction w/parent role	-0.006 0.910 369	-0.003 0.955 369	-0.022 0.669 369	0.030 0.568 369	0.095 0.067 369	0.276 0.000 291	1.000 0.000 369	-0.311 0.000 369	0.438 0.000 369	0.412 0.000 369	0.361 0.000 369
P9C19 p-rating 2. child difficulty	0.025 0.627 369	0.049 0.348 369	0.075 0.153 369	0.040 0.442 369	-0.057 0.278 369	-0.147 0.012 291	-0.311 0.000 369	1.000 0.000 369	-0.494 0.000 369	-0.559 0.000 369	-0.380 0.000 369
P9C20 p-rating 3. parent-child relation	-0.123 0.018 369	-0.039 0.454 369	-0.087 0.096 369	-0.032 0.539 369	0.033 0.531 369	0.180 0.002 291	0.438 0.000 369	-0.494 0.000 369	1.000 0.000 369	0.585 0.000 369	0.427 0.000 369
P9C21 p-rating 4. satisfaction child behav	-0.140 0.007 369	-0.089 0.089 369	-0.087 0.095 369	-0.083 0.113 369	0.026 0.615 369	0.132 0.025 291	0.412 0.000 369	-0.559 0.000 369	0.585 0.000 369	1.000 0.000 369	0.498 0.000 369
P9C22 i-rating 1. parent description of TC	-0.057 0.277 369	0.008 0.879 369	-0.012 0.813 369	-0.022 0.672 369	0.005 0.925 369	0.143 0.015 291	0.361 0.000 369	-0.380 0.000 369	0.427 0.000 369	0.498 0.000 369	1.000 0.000 369
P9C23 i-rating 2. parent insight about TC	0.019 0.709 369	0.024 0.649 369	0.023 0.664 369	-0.054 0.299 369	0.016 0.759 369	0.028 0.633 291	0.199 0.000 369	-0.173 0.001 369	0.153 0.003 369	0.240 0.000 369	0.539 0.000 369
P9C24 i-rating 3. parent affect	-0.063 0.225 369	0.007 0.898 369	0.013 0.808 369	-0.023 0.658 369	0.003 0.962 369	0.185 0.002 291	0.365 0.000 369	-0.343 0.000 369	0.440 0.000 369	0.496 0.000 369	0.704 0.000 369
P9C25 i-rating 4. parent-child relationship	-0.005 0.919 368	0.058 0.264 368	0.081 0.122 368	-0.101 0.053 368	0.023 0.661 368	0.215 0.000 291	0.349 0.000 368	-0.320 0.000 368	0.403 0.000 368	0.434 0.000 368	0.702 0.000 368
P9C74 13. TC treated emot/beh difficulties	0.176 0.001 369	0.002 0.969 369	0.104 0.045 369	0.064 0.221 369	0.092 0.078 369	-0.195 0.001 291	-0.206 0.000 369	0.197 0.000 369	-0.271 0.000 369	-0.364 0.000 369	-0.279 0.000 369
P9C75 13a. facility where TC treated	-0.113 0.427 52	0.233 0.097 52	0.102 0.474 52	0.404 0.003 52	-0.060 0.670 52	0.001 0.996 46	0.148 0.296 52	0.043 0.764 52	0.076 0.592 52	-0.014 0.920 52	0.073 0.609 52
P9C76 14. medication to control beh/attent	0.075 0.151 369	0.113 0.030 369	0.095 0.069 369	0.016 0.762 369	-0.047 0.371 369	-0.065 0.267 291	-0.113 0.029 369	0.182 0.000 369	-0.146 0.005 369	-0.258 0.000 369	-0.158 0.002 369
P9C77 15. respondent received treatment	0.228 0.000 369	0.084 0.107 369	0.083 0.112 369	0.074 0.158 369	0.093 0.074 369	-0.140 0.017 291	-0.069 0.186 369	0.116 0.025 369	-0.159 0.002 369	-0.137 0.008 369	-0.105 0.043 369
P9C78 15a. facility where resp treated	0.234 0.175 35	0.216 0.212 35	0.090 0.607 35	0.089 0.612 35	-0.252 0.144 35	0.399 0.024 32	-0.068 0.699 35	0.075 0.670 35	-0.125 0.476 35	-0.072 0.680 35	-0.158 0.364 35
P9C79 16. others receive treatment	0.134 0.011 366	0.001 0.978 366	0.111 0.034 366	0.070 0.180 366	0.191 0.000 366	-0.043 0.465 289	-0.053 0.312 366	0.080 0.126 366	-0.072 0.168 366	-0.120 0.021 366	-0.067 0.202 366
P9C80 16a. which member was treated	0.409 0.006 44	0.180 0.243 44	0.167 0.278 44	0.191 0.215 44	-0.040 0.798 44	0.113 0.488 40	0.253 0.097 44	-0.154 0.320 44	0.169 0.274 44	0.214 0.162 44	0.259 0.090 44

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P9C23	P9C24	P9C25	P9C74	P9C75	P9C76	P9C77	P9C78	P9C79	P9C80
P9C1 1. changes: moved/major remodeling	0.010 0.853 369	0.084 0.109 369	0.026 0.620 368	0.035 0.500 369	0.129 0.362 52	0.021 0.690 369	0.024 0.645 369	-0.116 0.507 35	0.051 0.331 366	0.043 0.782 44
P9C2 1. changes: medical problems w/TC	-0.054 0.300 369	-0.172 0.001 369	-0.097 0.064 368	0.245 0.000 369	-0.073 0.608 52	0.132 0.011 369	0.169 0.001 369	0.225 0.193 35	0.118 0.024 366	-0.123 0.426 44
P9C3 1. changes: medical problems w/family	0.047 0.372 369	0.054 0.303 369	0.051 0.327 368	0.086 0.098 369	0.074 0.600 52	0.106 0.042 369	0.174 0.001 369	0.000 1.000 35	0.136 0.009 366	0.188 0.221 44
P9C4 1. changes: death of important person	0.066 0.206 369	-0.002 0.971 369	0.065 0.217 368	0.095 0.067 369	0.093 0.513 52	0.093 0.073 369	0.036 0.495 369	0.356 0.036 35	0.008 0.872 366	0.269 0.077 44
P9C5 1. changes: divorce of TCs parents	-0.052 0.320 369	0.035 0.504 369	0.031 0.557 368	-0.042 0.426 369	.. 52	-0.033 0.529 369	-0.034 0.516 369	.. 35	-0.038 0.472 366	.. 44
P9C6 1. changes: separation of TCs parents	-0.079 0.131 369	0.040 0.442 369	-0.003 0.954 368	-0.035 0.502 369	-0.048 0.733 52	-0.010 0.851 369	0.038 0.462 369	0.137 0.431 35	-0.024 0.647 366	0.223 0.145 44
P9C7 1. changes: remarriage/reconciliation	-0.009 0.868 369	-0.095 0.069 369	-0.106 0.043 368	0.064 0.222 369	-0.069 0.626 52	0.102 0.049 369	0.022 0.669 369	-0.064 0.716 35	0.046 0.383 366	0.155 0.317 44
P9C8 1. changes: parent/child separation	-0.002 0.972 369	-0.116 0.026 369	-0.102 0.051 368	0.109 0.036 369	-0.179 0.205 52	0.017 0.745 369	0.025 0.628 369	-0.121 0.488 35	0.062 0.233 366	-0.033 0.830 44
P9C9 1. changes: financial problems	-0.048 0.358 369	-0.041 0.435 369	-0.144 0.006 368	0.201 0.000 369	0.384 0.005 52	0.143 0.006 369	0.144 0.006 369	0.018 0.917 35	0.149 0.004 366	0.108 0.484 44
P9C10 1. changes: legal problems	-0.111 0.033 369	-0.068 0.192 369	-0.155 0.003 368	0.149 0.004 369	0.101 0.476 52	-0.023 0.656 369	0.156 0.003 369	-0.173 0.319 35	0.161 0.002 366	-0.047 0.760 44
P9C11 1. changes: drug/alcohol use	-0.116 0.026 369	-0.152 0.003 369	-0.236 0.000 368	0.257 0.000 369	-0.070 0.621 52	0.110 0.035 369	0.277 0.000 369	-0.127 0.467 35	0.228 0.000 366	0.079 0.609 44
P9C12 1. changes: stress/conflicts	0.019 0.709 369	-0.063 0.225 369	-0.005 0.919 368	0.176 0.001 369	-0.113 0.427 52	0.075 0.151 369	0.228 0.000 369	0.234 0.175 35	0.134 0.011 366	0.409 0.006 44
P9C13 1. changes: pregnancies, miscarriages	0.024 0.649 369	0.007 0.898 369	0.058 0.264 368	0.002 0.969 369	0.233 0.097 52	0.113 0.030 369	0.084 0.107 369	0.216 0.212 35	0.001 0.978 366	0.180 0.243 44
P9C14 1. changes: job-related stress	0.023 0.664 369	0.013 0.808 369	0.081 0.122 368	0.104 0.045 369	0.102 0.474 52	0.095 0.069 369	0.083 0.112 369	0.090 0.607 35	0.111 0.034 366	0.167 0.278 44
P9C15 1. changes: loss of job	-0.054 0.299 369	-0.023 0.658 369	-0.101 0.053 368	0.064 0.221 369	0.404 0.003 52	0.016 0.762 369	0.074 0.158 369	0.089 0.612 35	0.070 0.180 366	0.191 0.215 44
P9C16 1. changes: other	0.016 0.759 369	0.003 0.962 369	0.023 0.661 368	0.092 0.078 369	-0.060 0.670 52	-0.047 0.371 369	0.093 0.074 369	-0.252 0.144 35	0.191 0.000 366	-0.040 0.798 44
P9C17 2. TC reaction to changes	0.028 0.633 291	0.185 0.002 291	0.215 0.000 291	-0.195 0.001 291	0.001 0.996 46	-0.065 0.267 291	-0.140 0.017 291	0.399 0.024 32	-0.043 0.465 289	0.113 0.488 40

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations										
	P9C23	P9C24	P9C25	P9C74	P9C75	P9C76	P9C77	P9C78	P9C79	P9C80
P9C18 p-rating 1. satisfaction w/parent role	0.199 0.000 369	0.365 0.000 369	0.349 0.000 368	-0.206 0.000 369	0.148 0.296 52	-0.113 0.029 369	-0.069 0.186 369	-0.068 0.699 35	-0.053 0.312 366	0.253 0.097 44
P9C19 p-rating 2. child difficulty	-0.173 0.001 369	-0.343 0.000 369	-0.320 0.000 368	0.197 0.000 369	0.043 0.764 52	0.182 0.000 369	0.116 0.025 369	0.075 0.670 35	0.080 0.126 366	-0.154 0.320 44
P9C20 p-rating 3. parent-child relation	0.153 0.003 369	0.440 0.000 369	0.403 0.000 368	-0.271 0.000 369	0.076 0.592 52	-0.146 0.005 369	-0.159 0.002 369	-0.125 0.476 35	-0.072 0.168 366	0.169 0.274 44
P9C21 p-rating 4. satisfaction child behav	0.240 0.000 369	0.496 0.000 369	0.434 0.000 368	-0.364 0.000 369	-0.014 0.920 52	-0.258 0.000 369	-0.137 0.008 369	-0.072 0.680 35	-0.120 0.021 366	0.214 0.162 44
P9C22 i-rating 1. parent description of TC	0.539 0.000 369	0.704 0.000 369	0.702 0.000 368	-0.279 0.000 369	0.073 0.609 52	-0.158 0.002 369	-0.105 0.043 369	-0.158 0.364 35	-0.067 0.202 366	0.259 0.090 44
P9C23 i-rating 2. parent insight about TC	1.000 369	0.469 0.000 369	0.590 0.000 368	-0.107 0.040 369	0.139 0.326 52	-0.028 0.596 369	-0.096 0.064 369	0.092 0.599 35	0.047 0.372 366	0.230 0.134 44
P9C24 i-rating 3. parent affect	0.469 0.000 369	1.000 369	0.700 0.000 368	-0.234 0.000 369	0.185 0.189 52	-0.171 0.001 369	-0.128 0.014 369	-0.160 0.357 35	-0.066 0.207 366	0.199 0.194 44
P9C25 i-rating 4. parent-child relationship	0.590 0.000 368	0.700 0.000 368	1.000 0.000 368	-0.271 0.000 368	0.052 0.713 52	-0.060 0.253 368	-0.094 0.072 368	-0.024 0.890 35	-0.041 0.435 365	0.183 0.234 44
P9C74 13. TC treated emot/beh difficulties	-0.107 0.040 369	-0.234 0.000 369	-0.271 0.000 368	1.000 369	. . 52	0.527 0.000 369	0.301 0.000 369	-0.182 0.297 35	0.235 0.000 366	-0.314 0.038 44
P9C75 13a. facility where TC treated	0.139 0.326 52	0.185 0.189 52	0.052 0.713 52	. . 52	1.000 52	-0.181 0.198 52	-0.241 0.085 52	-0.259 0.333 16	0.201 0.157 51	0.098 0.719 16
P9C76 14. medication to control beh/attent	-0.028 0.596 369	-0.171 0.001 369	-0.060 0.253 368	0.527 0.000 369	-0.181 0.198 52	1.000 369	0.138 0.008 369	0.346 0.042 35	0.118 0.024 366	-0.196 0.203 44
P9C77 15. respondent received treatment	-0.096 0.064 369	-0.128 0.014 369	-0.094 0.072 368	0.301 0.000 369	-0.241 0.085 52	0.138 0.008 369	1.000 369	. . 35	0.223 0.000 366	0.239 0.118 44
P9C78 15a. facility where resp treated	0.092 0.599 35	-0.160 0.357 35	-0.024 0.890 35	-0.182 0.297 35	-0.259 0.333 16	0.346 0.042 35	. . 35	1.000 35	-0.120 0.508 33	0.503 0.096 12
P9C79 16. others receive treatment	0.047 0.372 366	-0.066 0.207 366	-0.041 0.435 365	0.235 0.000 366	0.201 0.157 51	0.118 0.024 366	0.223 0.000 366	-0.120 0.508 33	1.000 366	. . 44
P9C80 16a. which member was treated	0.230 0.134 44	0.199 0.194 44	0.183 0.234 44	-0.314 0.038 44	0.098 0.719 16	-0.196 0.203 44	0.239 0.118 44	0.503 0.096 12	. . 44	1.000 44

Scale Correlations

Pearson Correlation Coefficients, N = 369 Prob > r under H0: Rho=0			
	LCH9qob	LCH9qpr	LCH9str
LCH9qob Y9 LC Quality Parent-Child Relat_Observer	1.000 0.000	0.529 0.000	-0.101 0.052
LCH9qpr Y9 LC Quality Parent-Child Relat_Parent	0.529 0.000	1.000	-0.183 0.000
LCH9str Y9 LC Stress Scale sum score	-0.101 0.052	-0.183 0.000	1.000

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