

Post-Intervention Ratings of Change

Grade 3/Year 4

Fast Track Project Technical Report

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Citation

Instrument

Conduct Problems Prevention Research Group (CPPRG). (1990). *Post-Intervention Ratings of Child and Parent Change*. Unpublished measure, Fast Track Project.

Reports

Rains, C. (2003). *Post-Intervention Ratings of Change* (Fast Track Project Technical Report). Available from the Fast Track Project website: <http://www.fasttrackproject.org/>

McCarty, C. & Doyle, S. (2000). *Post-Intervention Ratings of Child and Parent Change (Grade 4+)* (Fast Track Project Technical Report). Available from the Fast Track Project website: <http://www.fasttrackproject.org/>

Maumary-Gremaud, A. & Miller-Johnson, S. (1995). *Parent Post Ratings of Child and Parent Change* (Fast Track Project Technical Report). Durham, NC: Duke University.

Data Sources

Raw: P4T

Scored: PIR4

I. Scale Description

The Post-Intervention Ratings of Child and Parent Change is a 20-item instrument that measures parent's perceptions of change of their own behavior and of their child's behavior. This measure is divided into two parts. The first 9 items concern the child's behavior across the school year. The second part of the measure contains 11 questions where the parent rates the change of his/her own behavior toward the target child. This measure was part of the summer interviews for year 2 through year 7. In year 5, five additional questions concerning the parent's ability to communicate with the child were added to the parent section of the measure (see separate technical reports for details).

II. Report Sample

These exploratory analyses were conducted on the first cohort on the high-risk control sample (n = 155) and on the normative sample (n = 387, 463 with overlap) from the fourth year of the study. 48 records

were missing the complete measure. 13 records were missing from the control sample (3 from Durham, 1 from Nashville, 2 from Pennsylvania, and 7 from Washington) and 41 records were missing from the normative sample (6 from Durham, 11 from Nashville, 9 from Pennsylvania, and 15 from Washington). These numbers may reflect some overlap between the two samples.

III. Scaling Description

There are two subscales for this measure. Both subscales are summary scores that are factor-based or theoretically derived and are calculated using weighted sum scores by: 1) summing the items for each scale, 2) dividing the number of items present for each subject, and 3) multiplying by the number of items on the scale. All items use the same response scale, which ranges from -3 to 3 (much worse, somewhat worse, a little worse, no change, a little improved, somewhat improved, and much improved).

The first subscale is the *Rating of Change of Child*. Items in this scale are from the first section of the measure and include 2 (the child's ability to get along with other children), 3 (the child's ability to get along with adults), 4 (the child's ability to follow rules), 7 (the child's willingness to follow the parent's instructions), 8 (the child's ability to stop and calm down), and 9 (how much the child fights with other children).

The second subscale is the *Rating of Change of Parent*. All 11 of the parent items are included in this scale. Some of these items are 1 (the parent's ability to increase the child's positive behavior), 4 (the parent's difficulty in parenting the child), 7 (the amount of praise given to the child), 9 (the parent's ability to follow through on instructions/directions that have been given to the child), and 11 (how well the parent and child get along with each other).

Cronbach's alphas were calculated for both the control and normative samples for each subscale and are in the table below:

Subscales	Cronbach's Alpha	
	Control Sample	Normative Sample
Ratings of Change of Child (PIR4CHC)	.87	.88
Ratings of Change of Parent (PIR4CHP)	.93	.93

Both subscales showed a high level of internal consistency for both the normative and the control samples.

IV. Differences between Groups

A series of t-tests between the high-risk control sample and the normative sample (with overlap) indicated no significant differences for either of the subscales. No significant differences were indicated for any of the items.

Post-Intervention Ratings of Change: Subscales

Variable	Normative Sample		Control Sample		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
Ratings of Change of Child (PIR4CHC)	1.05	0.95	1.19	0.98	413	1.37	0.1719
Ratings of Change of Parent (PIR4CHP)	1.32	0.94	1.46	0.95	413	1.39	0.1651

Post-Intervention Ratings of Change: Items

Variable	Normative Sample		Control Sample		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
P4TCH1	1.24	1.19	1.13	1.32	413	-0.85	0.3982
P4TCH5	1.48	1.16	1.35	1.07	413	-1.12	0.2613
P4TCH6	2.00	1.10	1.93	1.18	413	-0.57	0.5672

V. Recommendations for Use

Analysts should note that both subscales, the *Ratings of Change of Child* and the *ratings of Change of Parent*, were adequate. It is recommended to use a single mean score scale for each of these subscales.

VI. Item and Scale Means and SDs

Post-Intervention Ratings of Change: Items-Normative Sample Year 4

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P4TCH1	Your Child's Self-Esteem	346	1.2341040	1.2418284	-3.0000000	3.0000000
P4TCH2	TC's Ability to Get Along w/oth Children	346	1.2514451	1.2076139	-2.0000000	3.0000000
P4TCH3	TC's Ability to Get Along w/ Adults	346	1.2456647	1.3621365	-3.0000000	3.0000000
P4TCH4	Your Child's Ability to Follow Rules	346	1.1184971	1.2512505	-3.0000000	3.0000000
P4TCH5	Your Child's Self-Reliance	346	1.4248555	1.1528745	-3.0000000	3.0000000
P4TCH6	Your Child's Ability to Read	346	1.9393064	1.1467982	-1.0000000	3.0000000
P4TCH7	TC's Willingness to Follow Instructions	346	1.2832370	1.2968667	-3.0000000	3.0000000
P4TCH8	TC's Ability to Stop or Calm Down	346	1.0115607	1.1137530	-3.0000000	3.0000000
P4TCH9	How Much TC Fights w/ Other Children	346	0.5895954	1.1340865	-3.0000000	3.0000000
P4TPA1	Your Ability to Increase TC's Pos/Behav.	346	1.6676301	1.0697114	-3.0000000	3.0000000
P4TPA2	Your Ability to Decrease TC's Neg/Behav.	346	1.3757225	1.0729292	-1.0000000	3.0000000
P4TPA3	Your Satisfaction w/being Parent to TC	346	1.5979769	1.2935611	-1.0000000	3.0000000
P4TPA4	Difficulty in Parenting Your Child	346	0.8526012	1.2294486	-3.0000000	3.0000000
P4TPA5	Your Ability to Stop/Calm Down wh. Upset	346	1.2254335	1.1946938	-3.0000000	3.0000000
P4TPA6	Amount of Yelling at Your Child	346	0.9942197	1.2394347	-3.0000000	3.0000000
P4TPA7	Amount of Praise You Give Your Child	346	1.6907514	1.2109529	-1.0000000	3.0000000
P4TPA8	Your Ability to Clearly State Yr. Wishes	346	1.5289017	1.2232186	-1.0000000	3.0000000
P4TPA9	Your Ability to Follow Through w/Inst'ns	346	1.4017341	1.2337746	-1.0000000	3.0000000
P4TPA10	Your Ability to Punish Child Effectively	346	1.2052023	1.2422871	-3.0000000	3.0000000
P4TPA11	How Well You & TC Get Along w/Each Other	346	1.4739884	1.4083250	-3.0000000	3.0000000

Post-Intervention Ratings of Change: Items-Control Sample Year 4

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
P4TCH1	Your Child's Self-Esteem	142	1.1338028	1.3220920	-3.0000000	3.0000000
P4TCH2	TC's Ability to Get Along w/oth Children	142	1.3309859	1.2129434	-2.0000000	3.0000000
P4TCH3	TC's Ability to Get Along w/ Adults	142	1.3028169	1.4439379	-3.0000000	3.0000000
P4TCH4	Your Child's Ability to Follow Rules	142	1.1549296	1.2676878	-3.0000000	3.0000000
P4TCH5	Your Child's Self-Reliance	142	1.3450704	1.0655520	-3.0000000	3.0000000
P4TCH6	Your Child's Ability to Read	142	1.9295775	1.1829036	-1.0000000	3.0000000
P4TCH7	TC's Willingness to Follow Instructions	142	1.3943662	1.2374634	-3.0000000	3.0000000
P4TCH8	TC's Ability to Stop or Calm Down	142	1.0352113	1.1261682	-3.0000000	3.0000000
P4TCH9	How Much TC Fights w/ Other Children	142	0.9225352	1.3104812	-3.0000000	3.0000000
P4TPA1	Your Ability to Increase TC's Pos/Behav.	142	1.6267606	1.0692952	-3.0000000	3.0000000
P4TPA2	Your Ability to Decrease TC's Neg/Behav.	142	1.3732394	1.0078356	-1.0000000	3.0000000
P4TPA3	Your Satisfaction w/being Parent to TC	142	1.6126761	1.2651835	-3.0000000	3.0000000
P4TPA4	Difficulty in Parenting Your Child	142	0.9507042	1.3226208	-3.0000000	3.0000000
P4TPA5	Your Ability to Stop/Calm Down wh. Upset	142	1.3239437	1.2060680	-3.0000000	3.0000000
P4TPA6	Amount of Yelling at Your Child	142	1.1619718	1.3349493	-3.0000000	3.0000000
P4TPA7	Amount of Praise You Give Your Child	142	1.8169014	1.1585006	-1.0000000	3.0000000
P4TPA8	Your Ability to Clearly State Yr. Wishes	142	1.6619718	1.1416507	0	3.0000000
P4TPA9	Your Ability to Follow Through w/Inst'ns	142	1.4929577	1.2476729	-2.0000000	3.0000000
P4TPA10	Your Ability to Punish Child Effectively	142	1.3661972	1.2687117	-2.0000000	3.0000000
P4TPA11	How Well You & TC Get Along w/Each Other	142	1.6338028	1.4115977	-3.0000000	3.0000000

Post-Intervention Ratings of Change: Subscales-Normative Sample Year 4

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
PIR4CHC	PIR_ Rating of Change of Child YR 4	346	1.0833333	0.9722602	-2.5000000	3.0000000
PIR4CHP	PIR_ Rating of Change of Parent YR 4	346	1.3649238	0.9281525	-0.9090909	3.0000000

Post-Intervention Ratings of Change: Subscales-Control Sample Year 4

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
PIR4CHC	PIR_ Rating of Change of Child YR 4	142	1.1901408	0.9824287	-2.5000000	3.0000000
PIR4CHP	PIR_ Rating of Change of Parent YR 4	142	1.4564661	0.9457142	-1.2727273	3.0000000

VII. Item and Scale Correlations

Post-Intervention Ratings of Change: Items-Report Sample Year 4

Pearson Correlation Coefficients, N = 415										
Prob > r under H0: Rho=0										
	P4TCH1	P4TCH2	P4TCH3	P4TCH4	P4TCH5	P4TCH6	P4TCH7	P4TCH8	P4TCH9	P4TPA1
P4TCH1 Your Child's Self-Esteem	1.00000	0.53462 <.0001	0.49382 <.0001	0.47520 <.0001	0.52026 <.0001	0.24750 <.0001	0.39832 <.0001	0.40015 <.0001	0.27965 <.0001	0.47112 <.0001
P4TCH2 TC's Ability to Get Along w/o/ Children	0.53462 <.0001	1.00000	0.68336 <.0001	0.61804 <.0001	0.51371 <.0001	0.24761 <.0001	0.51924 <.0001	0.51826 <.0001	0.44865 <.0001	0.51207 <.0001
P4TCH3 TC's Ability to Get Along w/ Adults	0.49382 <.0001	0.68336 <.0001	1.00000	0.67966 <.0001	0.56301 <.0001	0.26263 <.0001	0.61837 <.0001	0.51280 <.0001	0.48123 <.0001	0.56010 <.0001
P4TCH4 Your Child's Ability to Follow Rules	0.47520 <.0001	0.61804 <.0001	0.67966 <.0001	1.00000	0.62190 <.0001	0.30050 <.0001	0.65819 <.0001	0.54591 <.0001	0.41892 <.0001	0.54271 <.0001
P4TCH5 Your Child's Self-Reliance	0.52026 <.0001	0.51371 <.0001	0.56301 <.0001	0.62190 <.0001	1.00000	0.35553 <.0001	0.49695 <.0001	0.50358 <.0001	0.34659 <.0001	0.50559 <.0001
P4TCH6 Your Child's Ability to Read	0.24750 <.0001	0.24761 <.0001	0.26263 <.0001	0.30050 <.0001	0.35553 <.0001	1.00000	0.36613 <.0001	0.34943 <.0001	0.23480 <.0001	0.32090 <.0001
P4TCH7 TC's Willingness to Follow Instructions	0.39832 <.0001	0.51924 <.0001	0.61837 <.0001	0.65819 <.0001	0.49695 <.0001	0.36613 <.0001	1.00000	0.53609 <.0001	0.38797 <.0001	0.56839 <.0001
P4TCH8 TC's Ability to Stop or Calm Down	0.40015 <.0001	0.51826 <.0001	0.51280 <.0001	0.54591 <.0001	0.50358 <.0001	0.34943 <.0001	0.53609 <.0001	1.00000	0.48551 <.0001	0.50510 <.0001
P4TCH9 How Much TC Fights w/ Other Children	0.27965 <.0001	0.44865 <.0001	0.48123 <.0001	0.41892 <.0001	0.34659 <.0001	0.23480 <.0001	0.38797 <.0001	0.48551 <.0001	1.00000	0.40532 <.0001
P4TPA1 Your Ability to Increase TC's Pos/Behav.	0.47112 <.0001	0.51207 <.0001	0.56010 <.0001	0.54271 <.0001	0.50559 <.0001	0.32090 <.0001	0.56839 <.0001	0.50510 <.0001	0.40532 <.0001	1.00000
P4TPA2 Your Ability to Decrease TC's Neg/Behav.	0.36843 <.0001	0.49192 <.0001	0.53567 <.0001	0.48744 <.0001	0.41180 <.0001	0.20920 <.0001	0.50559 <.0001	0.45869 <.0001	0.36562 <.0001	0.68446 <.0001
P4TPA3 Your Satisfaction w/being Parent to TC	0.35511 <.0001	0.50666 <.0001	0.59494 <.0001	0.50435 <.0001	0.40485 <.0001	0.23852 <.0001	0.56438 <.0001	0.48898 <.0001	0.43957 <.0001	0.62883 <.0001
P4TPA4 Difficulty in Parenting Your Child	0.31330 <.0001	0.36843 <.0001	0.50502 <.0001	0.40398 <.0001	0.28216 <.0001	0.16578 0.0007	0.44350 <.0001	0.39156 <.0001	0.48348 <.0001	0.40289 <.0001
P4TPA5 Your Ability to Stop/Calm Down wh. Upset	0.35487 <.0001	0.48027 <.0001	0.48719 <.0001	0.46290 <.0001	0.39644 <.0001	0.13085 0.0076	0.43151 <.0001	0.46968 <.0001	0.47538 <.0001	0.48298 <.0001
P4TPA6 Amount of Yelling at Your Child	0.32545 <.0001	0.41552 <.0001	0.43481 <.0001	0.39947 <.0001	0.33484 <.0001	0.10867 0.0269	0.38117 <.0001	0.33754 <.0001	0.44916 <.0001	0.43436 <.0001
P4TPA7 Amount of Praise You Give Your Child	0.30359 <.0001	0.39897 <.0001	0.48736 <.0001	0.39485 <.0001	0.32725 <.0001	0.19369 <.0001	0.44917 <.0001	0.30745 <.0001	0.36571 <.0001	0.52780 <.0001
P4TPA8 Your Ability to Clearly State Yr. Wishes	0.34843 <.0001	0.42611 <.0001	0.52250 <.0001	0.48166 <.0001	0.42760 <.0001	0.24889 <.0001	0.48168 <.0001	0.41986 <.0001	0.41102 <.0001	0.53220 <.0001

Pearson Correlation Coefficients, N = 415 Prob > r under H0: Rho=0										
	P4TCH1	P4TCH2	P4TCH3	P4TCH4	P4TCH5	P4TCH6	P4TCH7	P4TCH8	P4TCH9	P4TPA1
P4TPA9 Your Ability to Follow Through w/Inst'ns	0.35900 <.0001	0.41718 <.0001	0.50428 <.0001	0.49030 <.0001	0.39274 <.0001	0.16077 0.0010	0.48739 <.0001	0.46218 <.0001	0.39497 <.0001	0.55174 <.0001
P4TPA10 Your Ability to Punish Child Effectively	0.26871 <.0001	0.38667 <.0001	0.46634 <.0001	0.40252 <.0001	0.30649 <.0001	0.20536 <.0001	0.46836 <.0001	0.44187 <.0001	0.43937 <.0001	0.48856 <.0001
P4TPA11 How Well You & TC Get Along w/Each Other	0.38003 <.0001	0.42060 <.0001	0.58217 <.0001	0.46151 <.0001	0.37788 <.0001	0.18659 0.0001	0.51641 <.0001	0.44805 <.0001	0.38712 <.0001	0.56149 <.0001

Pearson Correlation Coefficients, N = 415 Prob > r under H0: Rho=0										
	P4TPA2	P4TPA3	P4TPA4	P4TPA5	P4TPA6	P4TPA7	P4TPA8	P4TPA9	P4TPA10	P4TPA11
P4TCH1 Your Child's Self-Esteem	0.36843 <.0001	0.35511 <.0001	0.31330 <.0001	0.35487 <.0001	0.32545 <.0001	0.30359 <.0001	0.34843 <.0001	0.35900 <.0001	0.26871 <.0001	0.38003 <.0001
P4TCH2 TC's Ability to Get Along w/oth Children	0.49192 <.0001	0.50666 <.0001	0.36843 <.0001	0.48027 <.0001	0.41552 <.0001	0.39897 <.0001	0.42611 <.0001	0.41718 <.0001	0.38667 <.0001	0.42060 <.0001
P4TCH3 TC's Ability to Get Along w/ Adults	0.53567 <.0001	0.59494 <.0001	0.50502 <.0001	0.48719 <.0001	0.43481 <.0001	0.48736 <.0001	0.52250 <.0001	0.50428 <.0001	0.46634 <.0001	0.58217 <.0001
P4TCH4 Your Child's Ability to Follow Rules	0.48744 <.0001	0.50435 <.0001	0.40398 <.0001	0.46290 <.0001	0.39947 <.0001	0.39485 <.0001	0.48166 <.0001	0.49030 <.0001	0.40252 <.0001	0.46151 <.0001
P4TCH5 Your Child's Self-Reliance	0.41180 <.0001	0.40485 <.0001	0.28216 <.0001	0.39644 <.0001	0.33484 <.0001	0.32725 <.0001	0.42760 <.0001	0.39274 <.0001	0.30649 <.0001	0.37788 <.0001
P4TCH6 Your Child's Ability to Read	0.20920 <.0001	0.23852 <.0001	0.16578 0.0007	0.13085 0.0076	0.10867 0.0269	0.19369 <.0001	0.24889 <.0001	0.16077 0.0010	0.20536 <.0001	0.18659 0.0001
P4TCH7 TC's Willingness to Follow Instructions	0.50559 <.0001	0.56438 <.0001	0.44350 <.0001	0.43151 <.0001	0.38117 <.0001	0.44917 <.0001	0.48168 <.0001	0.48739 <.0001	0.46836 <.0001	0.51641 <.0001
P4TCH8 TC's Ability to Stop or Calm Down	0.45869 <.0001	0.48898 <.0001	0.39156 <.0001	0.46968 <.0001	0.33754 <.0001	0.30745 <.0001	0.41986 <.0001	0.46218 <.0001	0.44187 <.0001	0.44805 <.0001
P4TCH9 How Much TC Fights w/ Other Children	0.36562 <.0001	0.43957 <.0001	0.48348 <.0001	0.47538 <.0001	0.44916 <.0001	0.36571 <.0001	0.41102 <.0001	0.39497 <.0001	0.43937 <.0001	0.38712 <.0001
P4TPA1 Your Ability to Increase TC's Pos/Behav.	0.68446 <.0001	0.62883 <.0001	0.40289 <.0001	0.48298 <.0001	0.43436 <.0001	0.52780 <.0001	0.53220 <.0001	0.55174 <.0001	0.48856 <.0001	0.56149 <.0001
P4TPA2 Your Ability to Decrease TC's Neg/Behav.	1.00000	0.60471 <.0001	0.43713 <.0001	0.46704 <.0001	0.40762 <.0001	0.47821 <.0001	0.54328 <.0001	0.54835 <.0001	0.46959 <.0001	0.50546 <.0001
P4TPA3 Your Satisfaction w/being Parent to TC	0.60471 <.0001	1.00000	0.58586 <.0001	0.56122 <.0001	0.46054 <.0001	0.61544 <.0001	0.63136 <.0001	0.62713 <.0001	0.59403 <.0001	0.68148 <.0001
P4TPA4 Difficulty in Parenting Your Child	0.43713 <.0001	0.58586 <.0001	1.00000	0.54353 <.0001	0.48504 <.0001	0.40581 <.0001	0.47879 <.0001	0.48852 <.0001	0.43463 <.0001	0.50880 <.0001

Pearson Correlation Coefficients, N = 415 Prob > r under H0: Rho=0										
	P4TPA2	P4TPA3	P4TPA4	P4TPA5	P4TPA6	P4TPA7	P4TPA8	P4TPA9	P4TPA10	P4TPA11
P4TPA5 Your Ability to Stop/Calm Down wh. Upset	0.46704 <.0001	0.56122 <.0001	0.54353 <.0001	1.00000	0.69204 <.0001	0.52529 <.0001	0.56085 <.0001	0.58542 <.0001	0.58168 <.0001	0.58723 <.0001
P4TPA6 Amount of Yelling at Your Child	0.40762 <.0001	0.46054 <.0001	0.48504 <.0001	0.69204 <.0001	1.00000	0.48045 <.0001	0.44276 <.0001	0.48165 <.0001	0.46146 <.0001	0.52581 <.0001
P4TPA7 Amount of Praise You Give Your Child	0.47821 <.0001	0.61544 <.0001	0.40581 <.0001	0.52529 <.0001	0.48045 <.0001	1.00000	0.63083 <.0001	0.57520 <.0001	0.52394 <.0001	0.60156 <.0001
P4TPA8 Your Ability to Clearly State Yr. Wishes	0.54328 <.0001	0.63136 <.0001	0.47879 <.0001	0.56085 <.0001	0.44276 <.0001	0.63083 <.0001	1.00000	0.76566 <.0001	0.60678 <.0001	0.61327 <.0001
P4TPA9 Your Ability to Follow Through w/Inst'ns	0.54835 <.0001	0.62713 <.0001	0.48852 <.0001	0.58542 <.0001	0.48165 <.0001	0.57520 <.0001	0.76566 <.0001	1.00000	0.67785 <.0001	0.62721 <.0001
P4TPA10 Your Ability to Punish Child Effectively	0.46959 <.0001	0.59403 <.0001	0.43463 <.0001	0.58168 <.0001	0.46146 <.0001	0.52394 <.0001	0.60678 <.0001	0.67785 <.0001	1.00000	0.65205 <.0001
P4TPA11 How Well You & TC Get Along w/Each Other	0.50546 <.0001	0.68148 <.0001	0.50880 <.0001	0.58723 <.0001	0.52581 <.0001	0.60156 <.0001	0.61327 <.0001	0.62721 <.0001	0.65205 <.0001	1.00000

Post-Intervention Ratings of Change: Subscales-Report Sample Year 4

Pearson Correlation Coefficients, N = 415 Prob > r under H0: Rho=0		
	PIR4CHC	PIR4CHP
PIR4CHC PIR_ Rating of Change of Child YR 4	1.00000	0.75776 <.0001
PIR4CHP PIR_ Rating of Change of Parent YR 4	0.75776 <.0001	1.00000

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