Neighborhood Questionnaire

Kindergarten/Year 1
Fast Track Project Technical Report
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Appendix

SAS Scoring program

Citation

Instrument

Conduct Problems Prevention Research Group (CPPRG). (1991). *Neighborhood Questionnaire.* Available from the Fast Track Project Web site: http://www.fasttrackproject.org

Report

Pek, J. C. X. (2005). *Neighborhood Questionnaire, Kindergarten/Year 1* (Fast Track Project Technical Report). Available from the Fast Track Project Web site: http://www.fasttrackproject.org

Corrigan, A. (2002). *Neighborhood Questionnaire, Grade 1/Year 2* (Fast Track Project Technical Report). Available from the Fast Track Project Web site: http://www.fasttrackproject.org

Greenberg, M. & Lengua, L. (1995). *Scale Construction for the Neighborhood Questionnaire* (Fast Track Project Technical Report). Seattle, WA: University of Washington.

Data Sources

Raw: P1G_NQ

Scored: NHQ1

I.   Scale Description

The Neighborhood Questionnaire is a 16-item measure that assesses a parent's satisfaction with the family's neighborhood.

The questionnaire explores sociability in the neighborhood, the neighborhood's stability, the quality of public services (police, schools, transportation, garbage collection), neighborhood safety, the incidence of violent crime, drug traffic in the neighborhood, the parent's involvement with neighbors, and the parent's participation in neighborhood organizations.

Responses include three-point, four-point, five-point, six-point and dichotomous scales. One item has ten response choices. Items ask about satisfaction level, quality, duration, quantity, level of involvement, and frequency. Two items are yes/no questions.

II. Report Sample

These analyses were conducted on the first cohort on the high-risk sample (n=310) and the normative sample (n=387 with overlap, total N = 618). These numbers may reflect some overlap between the two samples.

III. Scaling

The Neighborhood Questionnaire has three subscales: *Neighborhood Safety* (items 1, 6, 10, 11 and 12), *Neighborhood Social Involvement* (items 3, 4, 5 and 13), and *Public Services* (items 8 and 9). A previous analysis determined that items 2, 7, and 15 should not be included on any subscale, and that items 14 and 16, which are dichotomous, should also be excluded from the subscales.

The ordering of responses in Items 10 and 11 was reversed before scoring. Raw scores for items 1 to 13 were converted to a ten-point scale by multiplying the scores by 10 and dividing them by the highest possible score within each item. For example, the possible raw scores for Item 4 are 0, 1, 2 and 3; after rescaling, these scores become 0, 3.33, 6.67 and 10 respectively. All subscales were scored by taking the mean of non-missing item responses and multiplying by the number of items on the scale. Subscales with more than 50 percent of their responses missing were not scored. Using a ten-point response scale, *Neighborhood Safety* has a possible maximum score of 50 points, *Neighborhood Social Involvement* has a maximum of 40, and *Public Services* has a maximum of 20.

Cronbach's alphas were calculated for each subscale and are shown in the table below:

Subscales	Cronbach's Alpha	
	High-Risk Sample	**Normative Sample**
Neighborhood Safety	.77	.77
Neighborhood Social Involvement	.70	.74
Public Services	.28	.41

Neighborhood Safety and *Neighborhood Social Involvement* showed adequate reliability for both the high-risk and normative samples. *Public Services*, while showing low reliability for both the normative sample and the control sample, is composed of only two items.

IV. Differences Between Groups

A series of t-tests between the high-risk sample (not including the overlap) and the normative sample indicated significant differences for two subscales, *Neighborhood Safety* and *Neighborhood Social Involvement*, with the normative sample scoring higher than the high-risk sample for both scores.

Two items, 2 and 7 were not included in any scale. Item 7 (Garbage collection satisfaction), indicated significant differences between the normative and high-risk samples, with the normative sample being more likely to express satisfaction with garbage collection compared to the high-risk sample. No significant differences between the control and intervention samples were found.

Neighborhood Questionnaire, Subscales and Stand-alone Items, Normative vs. High-Risk								
		Normative		High-Risk				
Variable	Label	Mean	Std Dev	Mean	Std Dev	DF	t Value	Pr > |t|
NHQ1saf	**Neighborhood Safety**	34.04203	10.82470	31.94086	11.46115	615	-2.34	0.0196
NHQ1soc	**Neighborhood Social Involvement**	17.66160	10.44620	15.67957	9.67214	615	-2.45	0.0147
NHQ1pub	**Public Service**	14.92375	4.35384	14.47312	4.38097	614	-1.28	0.2009
p1gnq2r	**Rescaled-Length of stay for most residents**	5.38126	3.77170	5.21505	3.78404	614	-0.55	0.5853
p1gnq7r	**Rescaled- Garbage collection satisfaction**	7.94788	2.79176	7.33549	3.27635	614	-2.50	0.0128

Neighborhood Questionnaire, Subscales and Stand-alone Items, Intervention vs. Control								
		Intervention		Control				
Variable	Label	Mean	Std Dev	Mean	Std Dev	DF	t Value	Pr > |t|
NHQ1saf	Neighborhood Safety	30.95699	11.88714	32.92473	10.96888	308	1.51	0.1309
NHQ1soc	Neighborhood Social Involvement	15.75914	10.14850	15.60000	9.20344	308	-0.14	0.8851
NHQ1pub	Public Service	14.38710	4.78627	14.55914	3.94806	308	0.35	0.7302
p1gnq2r	Rescaled-Length of stay for most residents	4.94624	3.74811	5.48387	3.81275	308	1.25	0.2115
p1gnq7r	Rescaled-Garbage collection satisfaction	7.09677	3.34866	7.57576	3.19478	307	1.29	0.1993

Frequency distributions of Item 14 (Does your neighborhood have clubs/groups?), Item 15 (How many groups do you belong to?) and Item 16 (Do you hold an office or post in any of these groups?) for the normative and high-risk groups are:

Table of p1gnq15r by Group			
p1gnq15r(Recoded-Involved in how many groups)	Group		
Frequency Percent Row Pct Col Pct	High-Risk	Normative	Total
0	279 45.37 52.35 90.29	254 41.30 47.65 83.01	533 86.67
1	22 3.58 37.29 7.12	37 6.02 62.71 12.09	59 9.59
2	5 0.81 29.41 1.62	12 1.95 70.59 3.92	17 2.76
3	1 0.16 33.33 0.32	2 0.33 66.67 0.65	3 0.49
4	1 0.16 100.00 0.32	0 0.00 0.00 0.00	1 0.16
9 or more	1 0.16 50.00 0.32	1 0.16 50.00 0.33	2 0.33
Total	309 50.24	306 49.76	615 100.00
Frequency Missing = 3			

		0=No, 1=Yes			Chi		
Variable		Normative Mean	High-Risk Mean	DF	Square Statistic	P-value	N
Recoded-Any groups in neighborhood (p1gnq14r)		0.29	0.25	1	1.81	0.179	615
Recoded-Hold an official position in groups (p1gnq16r)		0.04	0.01	1	3.42	0.064	615

With χ^2 (1, N = 615) = 1.81, $p < 0.1785$, the normative and high-risk samples did not differ in the presence of groups/clubs in their neighborhoods. With χ^2 (5, N = 615) = 9.19, $p < 0.1018$, the normative and high-risk samples did not differ in their neighborhood group membership. With χ^2 (1, N = 615) = 3.42, $p < 0.0645$, the normative and high-risk samples did not differ in holding official posts in their neighborhood groups.

The frequency distribution of Item 14 (Does your neighborhood have clubs/groups?), Item 15 (How many groups do you belong to?) and Item 16 (Do you hold an office or post in any of these groups?) among the control and intervention groups are:

Table of p1gnq15r by Treatment			
p1gnq15r(Recoded-Involved in how many groups)	Treatment Group		
Frequency Percent Row Pct Col Pct	Control	Intervention	Total
0	139 44.98 49.82 89.68	140 45.31 50.18 90.91	279 90.29
1	10 3.24 45.45 6.45	12 3.88 54.55 7.79	22 7.12
2	4 1.29 80.00 2.58	1 0.32 20.00 0.65	5 1.62
3	1 0.32 100.00 0.65	0 0.00 0.00 0.00	1 0.32
4	0 0.00 0.00 0.00	1 0.32 100.00 0.65	1 0.32
9 or more	1 0.32 100.00 0.65	0 0.00 0.00 0.00	1 0.32
Total	155 50.16	154 49.84	309 100.00
Frequency Missing = 309			

| | 0=No, 1=Yes | | | Chi | | |
Variable	Control Mean	Intervention Mean	DF	Square Statistic	P-value	N
Recoded-Any groups in neighborhood (p1gnq14r)	0.27	0.23	1	0.68	0.409	309
Recoded-Hold an official position in groups (p1gnq16r)	0.01	0.02	1	1.03	0.311	309

With χ^2 (1, N = 309) = 0.68, $p < 0.4093$, the control and intervention samples did not differ in the presence of groups/clubs in their neighborhoods. With χ^2 (5, N = 309) = 4.98, $p < 0.4181$, the control and intervention samples did not differ in their neighborhood group membership. With χ^2 (1, N = 309) = 1.03, $p < 0.3110$, the control and intervention samples did not differ in holding official posts in their neighborhood groups.

V. Recommendations for Use

Analysts should note that all three of the subscales, *Neighborhood Safety, Neighborhood Social Involvement* and *Public Service*, showed normal distributions for both the normative and high-risk samples. Analysts should also be aware that items on the Neighborhood Questionnaire contain several different response scale and response metrics.

VI. Item and Scale Means and SD's

Neighborhood Questionnaire, Items, Normative Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
p1gnq1r	Rescaled-How feel about neighborhood	386	7.021	2.711	0.000	10.000
p1gnq2r	Rescaled-Length of stay for most residents	385	5.359	3.765	0.000	10.000
p1gnq3r	Rescaled-Amount of neighborly talking or visiting	385	4.909	3.562	0.000	10.000
p1gnq4r	Rescaled-How many neighbors do you know well	386	5.017	3.383	0.000	10.000
p1gnq5r	Rescaled-How often do you get together	386	3.523	3.481	0.000	10.000
p1gnq6r	Rescaled-Local police protection	384	6.571	2.894	0.000	10.000
p1gnq7r	Rescaled- Garbage collection satisfaction	385	7.827	2.933	0.000	10.000
p1gnq8r	Rescaled-Local schools	381	7.874	2.559	0.000	10.000
p1gnq9r	Rescaled-Public transportation	379	6.974	2.847	0.000	10.000
p1gnq10r	Rescaled-Frequency of mugging/burglary	386	6.321	2.999	0.000	10.000
p1gnq11r	Rescaled-Local selling/using of drugs	386	6.546	3.902	0.000	10.000
p1gnq12r	Rescaled-Police and neighborhood relationship	381	7.078	2.520	0.000	10.000
p1gnq13r	Rescaled-Involvement in neighborhood	385	3.983	3.211	0.000	10.000

Neighborhood Questionnaire, Items, Control Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
p1gnq1r	Rescaled-How feel about neighborhood	155	6.645	2.673	0.000	10.000
p1gnq2r	Rescaled-Length of stay for most residents	155	5.484	3.813	0.000	10.000
p1gnq3r	Rescaled-Amount of neighborly talking or visiting	155	4.323	3.562	0.000	10.000
p1gnq4r	Rescaled-How many neighbors do you know well	155	4.473	3.002	0.000	10.000
p1gnq5r	Rescaled-How often do you get together	155	3.277	3.456	0.000	10.000
p1gnq6r	Rescaled-Local police protection	154	6.494	2.847	0.000	10.000
p1gnq7r	Rescaled- Garbage collection satisfaction	154	7.576	3.195	0.000	10.000
p1gnq8r	Rescaled-Local schools	153	7.712	2.550	0.000	10.000
p1gnq9r	Rescaled-Public transportation	151	6.865	2.834	0.000	10.000
p1gnq10r	Rescaled-Frequency of mugging/burglary	155	6.339	3.163	0.000	10.000
p1gnq11r	Rescaled-Local selling/using of drugs	155	6.516	3.709	0.000	10.000
p1gnq12r	Rescaled-Police and neighborhood relationship	154	6.926	2.426	0.000	10.000
p1gnq13r	Rescaled-Involvement in neighborhood	155	3.527	3.045	0.000	10.000

Neighborhood Questionnaire, Items, Intervention Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
p1gnq1r	Rescaled-How feel about neighborhood	155	6.151	3.484	0.000	10.000
p1gnq2r	Rescaled-Length of stay for most residents	155	4.946	3.748	0.000	10.000
p1gnq3r	Rescaled-Amount of neighborly talking or visiting	155	4.774	3.751	0.000	10.000
p1gnq4r	Rescaled-How many neighbors do you know well	155	4.151	3.275	0.000	10.000
p1gnq5r	Rescaled-How often do you get together	155	3.613	3.612	0.000	10.000
p1gnq6r	Rescaled-Local police protection	155	6.151	3.271	0.000	10.000
p1gnq7r	Rescaled-Garbage collection satisfaction	155	7.097	3.349	0.000	10.000
p1gnq8r	Rescaled-Local schools	155	7.656	2.770	0.000	10.000
p1gnq9r	Rescaled-Public transportation	154	6.732	3.311	0.000	10.000
p1gnq10r	Rescaled-Frequency of mugging/burglary	155	6.097	2.976	0.000	10.000
p1gnq11r	Rescaled-Local selling/using of drugs	155	5.914	4.273	0.000	10.000
p1gnq12r	Rescaled-Police and neighborhood relationship	154	6.623	2.440	0.000	10.000
p1gnq13r	Rescaled-Involvement in neighborhood	154	3.203	3.163	0.000	10.000

Neighborhood Questionnaire, Subscales, Normative Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
NHQ1saf	Neighborhood Safety	386	33.513	11.064	0.000	50.000
NHQ1soc	Neighborhood Social Involvement	386	17.423	10.231	0.000	40.000
NHQ1pub	Public Service	385	14.840	4.288	0.000	20.000

Neighborhood Questionnaire, Subscales, Control Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
NHQ1saf	Neighborhood Safety	155	32.925	10.969	0.000	50.000
NHQ1soc	Neighborhood Social Involvement	155	15.600	9.203	0.000	36.667
NHQ1pub	Public Service	155	14.559	3.948	3.333	20.000

Neighborhood Questionnaire, Subscales, Intervention Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
NHQ1saf	Neighborhood Safety	155	30.957	11.887	0.000	50.000
NHQ1soc	Neighborhood Social Involvement	155	15.759	10.149	0.000	40.000
NHQ1pub	Public Service	155	14.387	4.786	0.000	20.000

VII. Item and Scale Correlations

Neighborhood Questionnaire, Items, Report Sample

Pearson Correlation Coefficients **Prob > |r| under H0: Rho=0** **Number of Observations**							
	p1gnq1r	**p1gnq2r**	**p1gnq3r**	**p1gnq4r**	**p1gnq5r**	**p1gnq6r**	**p1gnq7r**
p1gnq1r Rescaled-How feel about neighborhood	1.00000 617	0.20515 <.0001 616	-0.01542 0.7025 616	0.24434 <.0001 617	0.12087 0.0026 617	0.31099 <.0001 614	0.25492 <.0001 616
p1gnq2r Rescaled-Length of stay for most residents	0.20515 <.0001 616	1.00000 616	0.13751 0.0006 615	0.30363 <.0001 616	0.10574 0.0086 616	-0.00904 0.8233 613	-0.00462 0.9090 615
p1gnq3r Rescaled-Amount of neighborly talking or visiting	-0.01542 0.7025 616	0.13751 0.0006 615	1.00000 616	0.37124 <.0001 616	0.35300 <.0001 616	-0.03438 0.3954 613	-0.06864 0.0890 615
p1gnq4r Rescaled-How many neighbors do you know well	0.24434 <.0001 617	0.30363 <.0001 616	0.37124 <.0001 616	1.00000 617	0.50158 <.0001 617	0.08771 0.0298 614	0.00474 0.9065 616
p1gnq5r Rescaled-How often do you get together	0.12087 0.0026 617	0.10574 0.0086 616	0.35300 <.0001 616	0.50158 <.0001 617	1.00000 617	0.03010 0.4565 614	-0.04321 0.2843 616
p1gnq6r Rescaled-Local police protection	0.31099 <.0001 614	-0.00904 0.8233 613	-0.03438 0.3954 613	0.08771 0.0298 614	0.03010 0.4565 614	1.00000 614	0.25251 <.0001 613
p1gnq7r Rescaled- Garbage collection satisfaction	0.25492 <.0001 616	-0.00462 0.9090 615	-0.06864 0.0890 615	0.00474 0.9065 616	-0.04321 0.2843 616	0.25251 <.0001 613	1.00000 616
p1gnq8r Rescaled-Local schools	0.16285 <.0001 611	0.02632 0.5161 611	-0.00940 0.8167 610	0.10041 0.0130 611	0.02040 0.6148 611	0.24517 <.0001 609	0.18824 <.0001 610
p1gnq9r Rescaled-Public transportation	0.00615 0.8798 607	-0.04310 0.2895 606	0.05980 0.1411 607	-0.00733 0.8570 607	-0.04698 0.2478 607	0.14385 0.0004 605	0.03990 0.3267 606
p1gnq10r Rescaled-Frequency of mugging/burglary	0.38961 <.0001 617	0.10439 0.0095 616	-0.13830 0.0006 616	0.03428 0.3953 617	-0.00920 0.8196 617	0.34745 <.0001 614	0.16576 <.0001 616
p1gnq11r Rescaled-Local selling/using of drugs	0.50056 <.0001 617	0.07586 0.0599 616	-0.13805 0.0006 616	0.08613 0.0324 617	0.01016 0.8012 617	0.28401 <.0001 614	0.21889 <.0001 616
p1gnq12r Rescaled-Police and neighborhood relationship	0.47175 <.0001 611	0.12584 0.0018 610	-0.06245 0.1231 611	0.14121 0.0005 611	0.04133 0.3077 611	0.45935 <.0001 609	0.29735 <.0001 610
p1gnq13r Rescaled-Involvement in neighborhood	0.28966 <.0001 615	0.23456 <.0001 614	0.27300 <.0001 614	0.51697 <.0001 615	0.38093 <.0001 615	0.05790 0.1525 612	0.06003 0.1374 614

	Pearson Correlation Coefficients **Prob > |r| under H0: Rho=0** **Number of Observations**					
	p1gnq8r	**p1gnq9r**	**p1gnq10r**	**p1gnq11r**	**p1gnq12r**	**p1gnq13r**
p1gnq1r Rescaled-How feel about neighborhood	0.16285 <.0001 611	0.00615 0.8798 607	0.38961 <.0001 617	0.50056 <.0001 617	0.47175 <.0001 611	0.28966 <.0001 615
p1gnq2r Rescaled-Length of stay for most residents	0.02632 0.5161 611	-0.04310 0.2895 606	0.10439 0.0095 616	0.07586 0.0599 616	0.12584 0.0018 610	0.23456 <.0001 614
p1gnq3r Rescaled-Amount of neighborly talking or visiting	-0.00940 0.8167 610	0.05980 0.1411 607	-0.13830 0.0006 616	-0.13805 0.0006 616	-0.06245 0.1231 611	0.27300 <.0001 614
p1gnq4r Rescaled-How many neighbors do you know well	0.10041 0.0130 611	-0.00733 0.8570 607	0.03428 0.3953 617	0.08613 0.0324 617	0.14121 0.0005 611	0.51697 <.0001 615
p1gnq5r Rescaled-How often do you get together	0.02040 0.6148 611	-0.04698 0.2478 607	-0.00920 0.8196 617	0.01016 0.8012 617	0.04133 0.3077 611	0.38093 <.0001 615
p1gnq6r Rescaled-Local police protection	0.24517 <.0001 609	0.14385 0.0004 605	0.34745 <.0001 614	0.28401 <.0001 614	0.45935 <.0001 609	0.05790 0.1525 612
p1gnq7r Rescaled- Garbage collection satisfaction	0.18824 <.0001 610	0.03990 0.3267 606	0.16576 <.0001 616	0.21889 <.0001 616	0.29735 <.0001 610	0.06003 0.1374 614
p1gnq8r Rescaled-Local schools	1.00000 611	0.22895 <.0001 602	0.08785 0.0299 611	0.11755 0.0036 611	0.16200 <.0001 606	0.10449 0.0099 609
p1gnq9r Rescaled-Public transportation	0.22895 <.0001 602	1.00000 607	-0.05565 0.1709 607	-0.01326 0.7445 607	0.08464 0.0376 604	-0.03718 0.3612 605
p1gnq10r Rescaled-Frequency of mugging/burglary	0.08785 0.0299 611	-0.05565 0.1709 607	1.00000 617	0.56534 <.0001 617	0.35989 <.0001 611	0.07667 0.0574 615
p1gnq11r Rescaled-Local selling/using of drugs	0.11755 0.0036 611	-0.01326 0.7445 607	0.56534 <.0001 617	1.00000 617	0.39546 <.0001 611	0.13268 0.0010 615
p1gnq12r Rescaled-Police and neighborhood relationship	0.16200 <.0001 606	0.08464 0.0376 604	0.35989 <.0001 611	0.39546 <.0001 611	1.00000 611	0.22859 <.0001 609
p1gnq13r Rescaled-Involvement in neighborhood	0.10449 0.0099 609	-0.03718 0.3612 605	0.07667 0.0574 615	0.13268 0.0010 615	0.22859 <.0001 609	1.00000 615

Neighborhood Questionnaire, Subscales and Stand-alone Items, Report Sample

Pearson Correlation Coefficients Prob > |r| under H0: Rho=0 Number of Observations					
	NHQ1saf	NHQ1soc	NHQ1pub	p1gnq2r	p1gnq7r
NHQ1saf Y1 NQ Neighborhood Safety Subscale	1.00000 617	0.09830 0.0146 617	0.15273 0.0001 616	0.13604 0.0007 616	0.32066 <.0001 616
NHQ1soc Y1 NQ Neighborhood Social Involvement Subscale	0.09830 0.0146 617	1.00000 617	0.03683 0.3615 616	0.26076 <.0001 616	-0.01911 0.6359 616
NHQ1pub Y1 NQ Public Service Subscale	0.15273 0.0001 616	0.03683 0.3615 616	1.00000 616	-0.01177 0.7709 615	0.13747 0.0006 615
p1gnq2r Rescaled-Length of stay for most residents	0.13604 0.0007 616	0.26076 <.0001 616	-0.01177 0.7709 615	1.00000 616	-0.00462 0.9090 615
p1gnq7r Rescaled-Local garbage collection	0.32066 <.0001 616	-0.01911 0.6359 616	0.13747 0.0006 615	-0.00462 0.9090 615	1.00000 616