

Things Your Friends Have Done

Grade 5/Year 6

FAST Track Project Technical Report

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Citation

Instrument

Elliott, D. S., Huizinga, D., & Ageton, S. S. (1985). Explaining delinquency and drug use. Beverly Hills, CA: Sage Publications.

Report

Hurley, S.M. (2000). Things Your Friends Have Done (Technical Report) [On-line]. Available: <http://www.fasttrackproject.org/>

Data Sources

Raw: c6n

Scored: tfd6

I. Scale Description

The "Things Your Friends Have Done" (TFD) interview was first administered in Year 5. The 16 items of the TFD tap domains of delinquent behavior and illicit drug use. It was administered as part of the child interview which is administered in the home setting during the summer. the entire interview takes approximately one and one half hours to complete. For the TFD portion of the interview, the interviewer begins by saying "I'm going to tell you about some things that kids your age sometimes do" I'd like you to think about the past year – from about this time last year through the school year. I'm going to read each behavior and ask you whether any of your friends have done that behavior during the past year." For each of the 16 behavioral items, the child is asked to give a yes/no answer. If the child says "no" or "I don't know" the interviewer scores the item as "No" (score=0). If the child says "yes", the interviewer asks whether most (score=2) or just some (score=1) of the child's friends have done the behavior and scores the item accordingly.

II. Report Sample

This exploration was conducted on data for Cohort 1, Year 6, including both high-risk ($n=155$) and normative samples ($n=387$ including overlap, total $N=463$). 89 students (19% of cohort) were missing responses for the entire scale, including 58 normative students (15%) and 20 high-risk students (13%). The non-respondents included 10 students from the Durham site (5 females, 5 males), 18 students from Nashville (6 females, 12 males), 30 students from Pennsylvania (9 females, 21 males), and 31 students

from Seattle (12 females, 19 males).

III. Scaling

The 16-item measure was scored based on a conceptual scoring system reflecting the behavioral domains of interest to the investigators, and was divided into four scales (see Technical Report dated July, 1997): delinquency, alcohol use, tobacco use, and other drug use (marijuana, heroin, crack, cocaine, LSD, or sniffing the fumes of harmful substances). The items that make up each scale are as follows:

Delinquency – items 1, 2, 3, 5, 6, 7, 9, 10, 11, 15 and 16. The delinquency variable (Del) reflects the mean of the 11 items.

Other Drug use – items 8, 13, and 14. The other drug use variable (Oth) reflects the mean of the three items.

Tobacco use – item 4. Variable=Tob.

Alcohol use – item 12. Variable=Alc.

IV. Differences Between Groups

A series of t-tests comparing the high-risk control sample and the normative sample (excluding those students also in the high-risk sample) indicated differences at the .05 level for Del, Oth, and Tob. Means were higher for the high-risk control sample than for the normative sample on each of these scaled items.

V. Recommendations for Use

Note that all four scales are skewed (see Technical Report dated July, 1997). The Del scale can be transformed using a square-root transformation to reduce the skew values, but a square-root transformation was not successful for the Oth scale. The single-item scales of Alc and Tob can not be meaningfully transformed, so these three scales (Oth, Alc, and Tob) may be recoded into dichotomous variables (0=absent, 1=present). Thus ordinary least squares regression can be used for the recoded Del scale, whereas logistic regression is required for the Oth, Alc, and Tob scales.

VI. Item and Scale Means and SD's

High risk control sample scale means:

Variable	N	Mean	Std Dev	Minimum	Maximum
del	135	0.5259259	0.4370282	0	2.0000000
oth	135	0.1185185	0.3032895	0	2.0000000
tob	135	0.3851852	0.6346369	0	2.0000000
alc	135	0.3111111	0.6285100	0	2.0000000

Normative sample (including overlap) scale means:

Variable	N	Mean	Std Dev	Minimum	Maximum
del	329	0.3988302	0.3544606	0	2.0000000
oth	329	0.0607903	0.2025061	0	2.0000000
tob	329	0.2340426	0.4844494	0	2.0000000
alc	329	0.2340426	0.5381164	0	2.0000000

High risk control sample item means:

Variable	Label	N	Mean	Std Dev	Minimum
C6N1	Physical Aggression	135	1.2148148	0.6393232	0
C6N2	Coercive Threat	135	0.9555556	0.7998756	0
C6N3	Shoplift under \$5	135	0.4814815	0.7416385	0
C6N4	Tobacco Use	135	0.3851852	0.6346369	0
C6N5	Carrying a weapon	135	0.2592593	0.5593568	0
C6N6	Property Destruction	135	0.5333333	0.6669154	0
C6N7	Stolen item between \$5 and \$50	135	0.3555556	0.6402736	0
C6N8	Marijuana Use	134	0.1492537	0.4506881	0
C6N9	School Suspension/Expulsion	135	0.8148148	0.7647572	0
C6N10	Gang Fight	135	0.3333333	0.6464599	0
C6N11	Stolen Item over \$50	135	0.2370370	0.5491840	0
C6N12	Alcohol Use	135	0.3111111	0.6285100	0
C6N13	Drug Use	135	0.0592593	0.2932821	0
C6N14	Inhalant Use	135	0.1481481	0.4146302	0
C6N15	Gang Fight	135	0.1259259	0.4307167	0
C6N16	Trouble with Police	135	0.4740741	0.6999961	0

Normative sample (including overlap) item means:

Variable	Label	N	Mean	Std Dev	Minimum
C6N1	Physical Aggression	328	1.1128049	0.6227742	0
C6N2	Coercive Threat	329	0.7386018	0.7480050	0
C6N3	Shoplift under \$5	327	0.3272171	0.6117153	0
C6N4	Tobacco Use	329	0.2340426	0.4844494	0
C6N5	Carrying a weapon	329	0.1610942	0.4568650	0
C6N6	Property Destruction	329	0.3768997	0.5876380	0
C6N7	Stolen item between \$5 and \$50	329	0.1884498	0.4948396	0
C6N8	Marijuana Use	328	0.0701220	0.3098150	0
C6N9	School Suspension/Expulsion	329	0.7477204	0.7029138	0
C6N10	Gang Fight	329	0.2401216	0.5685626	0
C6N11	Stolen Item over \$50	329	0.1276596	0.4299684	0
C6N12	Alcohol Use	329	0.2340426	0.5381164	0
C6N13	Drug Use	329	0.0182371	0.1551020	0
C6N14	Inhalant Use	329	0.0942249	0.3407266	0
C6N15	Gang Fight	329	0.0577508	0.2699522	0
C6N16	Trouble with Police	329	0.3100304	0.5694908	0

VII. Item and Scale Correlations

The internal consistencies (Cronbach's alpha) for the multi-item scale scores are as follows:

	Normative sample	Control Group
Delinquency		
Raw	.85	.87
Standardized	.85	.87
Other Drug Use		
Raw	.54	.67
Standardized	.62	.70

Correlation Analysis - TFD full sample

The SAS System 25

The CORR Procedure

16 Variables: C6N1 C6N2 C6N3 C6N4 C6N5 C6N6 C6N7 C6N8 C6N9
 C6N10 C6N11 C6N12 C6N13 C6N14 C6N15 C6N16

Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
C6N1	528	1.12311	0.62064	593.00000	0	2.00000
C6N2	529	0.77316	0.75726	409.00000	0	2.00000
C6N3	527	0.35294	0.62330	186.00000	0	2.00000
C6N4	529	0.24953	0.51320	132.00000	0	2.00000
C6N5	529	0.18904	0.48284	100.00000	0	2.00000
C6N6	529	0.40454	0.59580	214.00000	0	2.00000
C6N7	529	0.21361	0.50163	113.00000	0	2.00000
C6N8	528	0.08902	0.33971	47.00000	0	2.00000
C6N9	529	0.75614	0.70649	400.00000	0	2.00000
C6N10	529	0.25142	0.57002	133.00000	0	2.00000
C6N11	529	0.14934	0.44637	79.00000	0	2.00000
C6N12	529	0.21550	0.50646	114.00000	0	2.00000
C6N13	529	0.02457	0.17774	13.00000	0	2.00000
C6N14	529	0.07940	0.30977	42.00000	0	2.00000
C6N15	529	0.06238	0.28518	33.00000	0	2.00000
C6N16	529	0.35728	0.59587	189.00000	0	2.00000

Simple Statistics

Variable	Label
C6N1	Physical Aggression
C6N2	Coercive Threat
C6N3	Shoplift under \$5
C6N4	Tobacco Use
C6N5	Carrying a weapon
C6N6	Property Destruction
C6N7	Stolen item between \$5 and \$50
C6N8	Marijuana Use
C6N9	School Suspension/Expulsion
C6N10	Gang Fight
C6N11	Stolen Item over \$50
C6N12	Alcohol Use
C6N13	Drug Use
C6N14	Inhalant Use
C6N15	Gang Fight
C6N16	Trouble with Police

The CORR Procedure

Pearson Correlation Coefficients
 Prob > |r| under H0: Rho=0
 Number of Observations

	C6N1	C6N2	C6N3	C6N4	C6N5	C6N6
C6N1	1.00000	0.42253	0.25290	0.23664	0.24479	0.32135
Physical Aggression	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	528	527	528	528	528
C6N2	0.42253	1.00000	0.36450	0.20441	0.24700	0.36329
Coercive Threat	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N3	0.25290	0.36450	1.00000	0.34072	0.34502	0.41782
Shoplift under \$5	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	527	527	527	527	527	527
C6N4	0.23664	0.20441	0.34072	1.00000	0.35959	0.30104
Tobacco Use	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N5	0.24479	0.24700	0.34502	0.35959	1.00000	0.31961
Carrying a weapon	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N6	0.32135	0.36329	0.41782	0.30104	0.31961	1.00000
Property Destruction	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N7	0.27460	0.38208	0.52282	0.38847	0.43507	0.40105
Stolen item between \$5 and \$50	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N8	0.15594	0.21994	0.27600	0.41602	0.32666	0.26191
Marijuana Use	0.0003	<.0001	<.0001	<.0001	<.0001	<.0001
	527	528	526	528	528	528
C6N9	0.41629	0.36724	0.31502	0.21515	0.32971	0.43278
School Suspension/Expulsion	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N10	0.23918	0.26839	0.28882	0.23833	0.40502	0.29666
Gang Fight	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529

The CORR Procedure

Pearson Correlation Coefficients
 Prob > |r| under H0: Rho=0
 Number of Observations

	C6N7	C6N8	C6N9	C6N10	C6N11	C6N12
C6N1 Physical Aggression	0.27460 <.0001 528	0.15594 0.0003 527	0.41629 <.0001 528	0.23918 <.0001 528	0.20719 <.0001 528	0.22298 <.0001 528
C6N2 Coercive Threat	0.38208 <.0001 529	0.21994 <.0001 528	0.36724 <.0001 529	0.26839 <.0001 529	0.30212 <.0001 529	0.29067 <.0001 529
C6N3 Shoplift under \$5	0.52282 <.0001 527	0.27600 <.0001 526	0.31502 <.0001 527	0.28882 <.0001 527	0.44421 <.0001 527	0.32329 <.0001 527
C6N4 Tobacco Use	0.38847 <.0001 529	0.41602 <.0001 528	0.21515 <.0001 529	0.23833 <.0001 529	0.25041 <.0001 529	0.42667 <.0001 529
C6N5 Carrying a weapon	0.43507 <.0001 529	0.32666 <.0001 528	0.32971 <.0001 529	0.40502 <.0001 529	0.35208 <.0001 529	0.29779 <.0001 529
C6N6 Property Destruction	0.40105 <.0001 529	0.26191 <.0001 528	0.43278 <.0001 529	0.29666 <.0001 529	0.25667 <.0001 529	0.28798 <.0001 529
C6N7 Stolen item between \$5 and \$50	1.00000 529	0.46305 <.0001 528	0.30224 <.0001 529	0.38807 <.0001 529	0.61852 <.0001 529	0.43721 <.0001 529
C6N8 Marijuana Use	0.46305 <.0001 528	1.00000 528	0.20259 <.0001 528	0.29971 <.0001 528	0.37047 <.0001 528	0.41292 <.0001 528
C6N9 School Suspension/Expulsion	0.30224 <.0001 529	0.20259 <.0001 528	1.00000 529	0.29362 <.0001 529	0.26584 <.0001 529	0.24242 <.0001 529
C6N10 Gang Fight	0.38807 <.0001 529	0.29971 <.0001 528	0.29362 <.0001 529	1.00000 529	0.38809 <.0001 529	0.33680 <.0001 529

The CORR Procedure

Pearson Correlation Coefficients
 Prob > |r| under H0: Rho=0
 Number of Observations

	C6N13	C6N14	C6N15	C6N16
C6N1	0.02405	0.06735	0.13858	0.29177
Physical Aggression	0.5813 528	0.1222 528	0.0014 528	<.0001 528
C6N2	0.05557	0.18996	0.19720	0.36043
Coercive Threat	0.2020 529	<.0001 529	<.0001 529	<.0001 529
C6N3	0.19547	0.23763	0.20661	0.37169
Shoplift under \$5	<.0001 527	<.0001 527	<.0001 527	<.0001 527
C6N4	0.28562	0.24446	0.28166	0.28390
Tobacco Use	<.0001 529	<.0001 529	<.0001 529	<.0001 529
C6N5	0.21059	0.17804	0.21679	0.37701
Carrying a weapon	<.0001 529	<.0001 529	<.0001 529	<.0001 529
C6N6	0.17421	0.13350	0.23018	0.37632
Property Destruction	<.0001 529	0.0021 529	<.0001 529	<.0001 529
C6N7	0.21716	0.28068	0.39653	0.36514
Stolen item between \$5 and \$50	<.0001 529	<.0001 529	<.0001 529	<.0001 529
C6N8	0.34044	0.20289	0.43174	0.29578
Marijuana Use	<.0001 528	<.0001 528	<.0001 528	<.0001 528
C6N9	0.04781	0.10594	0.14145	0.40530
School Suspension/Expulsion	0.2723 529	0.0148 529	0.0011 529	<.0001 529
C6N10	0.12584	0.18706	0.29946	0.33167
Gang Fight	0.0037 529	<.0001 529	<.0001 529	<.0001 529

The CORR Procedure

Pearson Correlation Coefficients
 Prob > |r| under H0: Rho=0
 Number of Observations

	C6N1	C6N2	C6N3	C6N4	C6N5	C6N6
C6N11	0.20719	0.30212	0.44421	0.25041	0.35208	0.25667
Stolen Item over \$50	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N12	0.22298	0.29067	0.32329	0.42667	0.29779	0.28798
Alcohol Use	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N13	0.02405	0.05557	0.19547	0.28562	0.21059	0.17421
Drug Use	0.5813	0.2020	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N14	0.06735	0.18996	0.23763	0.24446	0.17804	0.13350
Inhalant Use	0.1222	<.0001	<.0001	<.0001	<.0001	0.0021
	528	529	527	529	529	529
C6N15	0.13858	0.19720	0.20661	0.28166	0.21679	0.23018
Gang Fight	0.0014	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529
C6N16	0.29177	0.36043	0.37169	0.28390	0.37701	0.37632
Trouble with Police	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	528	529	527	529	529	529

Pearson Correlation Coefficients
 Prob > |r| under H0: Rho=0
 Number of Observations

	C6N7	C6N8	C6N9	C6N10	C6N11	C6N12
C6N11	0.61852	0.37047	0.26584	0.38809	1.00000	0.42706
Stolen Item over \$50	<.0001	<.0001	<.0001	<.0001		<.0001
	529	528	529	529	529	529
C6N12	0.43721	0.41292	0.24242	0.33680	0.42706	1.00000
Alcohol Use	<.0001	<.0001	<.0001	<.0001	<.0001	
	529	528	529	529	529	529
C6N13	0.21716	0.34044	0.04781	0.12584	0.12076	0.21457
Drug Use	<.0001	<.0001	0.2723	0.0037	0.0054	<.0001
	529	528	529	529	529	529

The CORR Procedure

Pearson Correlation Coefficients
 Prob > |r| under H0: Rho=0
 Number of Observations

	C6N7	C6N8	C6N9	C6N10	C6N11	C6N12
C6N14 Inhalant Use	0.28068 <.0001 529	0.20289 <.0001 528	0.10594 0.0148 529	0.18706 <.0001 529	0.17434 <.0001 529	0.26497 <.0001 529
C6N15 Gang Fight	0.39653 <.0001 529	0.43174 <.0001 528	0.14145 0.0011 529	0.29946 <.0001 529	0.31351 <.0001 529	0.35259 <.0001 529
C6N16 Trouble with Police	0.36514 <.0001 529	0.29578 <.0001 528	0.40530 <.0001 529	0.33167 <.0001 529	0.41851 <.0001 529	0.34686 <.0001 529

Pearson Correlation Coefficients
 Prob > |r| under H0: Rho=0
 Number of Observations

	C6N13	C6N14	C6N15	C6N16
C6N11 Stolen Item over \$50	0.12076 0.0054 529	0.17434 <.0001 529	0.31351 <.0001 529	0.41851 <.0001 529
C6N12 Alcohol Use	0.21457 <.0001 529	0.26497 <.0001 529	0.35259 <.0001 529	0.34686 <.0001 529
C6N13 Drug Use	1.00000 529	0.41168 <.0001 529	0.38071 <.0001 529	0.13153 0.0024 529
C6N14 Inhalant Use	0.41168 <.0001 529	1.00000 529	0.22254 <.0001 529	0.24620 <.0001 529
C6N15 Gang Fight	0.38071 <.0001 529	0.22254 <.0001 529	1.00000 529	0.25868 <.0001 529
C6N16 Trouble with Police	0.13153 0.0024 529	0.24620 <.0001 529	0.25868 <.0001 529	1.00000 529