

Things Your Friends Have Done

Grade 4/Year 5

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: c5n

Scored: tfd5

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 5, including both high-risk ($n=155$) and normative samples ($n=387$ including overlap, total $N=463$). 74 students (19% of cohort) were missing responses for the entire scale, including 46 normative students (12%) and 20 high-risk students (13%). The non-respondents included 18 students from the Durham site (8 females, 10 males), 14 students from Nashville (5 females, 9 males), 23 students from Pennsylvania (7 females, 16 males), and 19 students

from Seattle (5 females, 14 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 only on tobacco use at the .05 level. Means were higher for the high-risk control sample than for the normative sample on this item.

T-tests comparing the high-risk control sample to the treatment sample found no differences at the .05 level for any 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	0.5464646	0.4148348	0	2.0000000
oth	135	0.1358025	0.3214197	0	2.0000000
tob	135	0.2888889	0.5306525	0	2.0000000
alc	135	0.2222222	0.5278323	0	2.0000000

Normative sample (including overlap) scale means:

Variable	N	Mean	Std Dev	Minimum	Maximum
del	341	0.4381498	0.3652091	0	1.7272727
oth	341	0.0909091	0.2340580	0	1.6666667
tob	341	0.1759531	0.4453776	0	2.0000000

alc	341	0.1495601	0.4248613	0	2.0000000
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High risk control sample item means:

Variable	Label	N	Mean	Std Dev	Minimum
C5N1	Physical Aggression	135	1.1481481	0.6966714	0
C5N2	Coercive Threat	135	0.8814815	0.7827606	0
C5N3	Shoplift under \$5	135	0.5333333	0.7309777	0
C5N4	Tobacco Use	135	0.2888889	0.5306525	0
C5N5	Carrying a weapon	134	0.3134328	0.5541085	0
C5N6	Property Destruction	135	0.5703704	0.6861176	0
C5N7	Stolen item between \$5 and \$50	135	0.3111111	0.5660371	0
C5N8	Marijuana Use	135	0.1333333	0.4014898	0
C5N9	School Suspension/Expulsion	135	0.8888889	0.7193142	0
C5N10	Gang Fight	135	0.4148148	0.6622574	0
C5N11	Stolen Item over \$50	135	0.2592593	0.5320050	0
C5N12	Alcohol Use	135	0.2222222	0.5278323	0
C5N13	Drug Use	135	0.0814815	0.3466654	0
C5N14	Inhalant Use	135	0.1925926	0.4651480	0
C5N15	Gang Fight	135	0.1555556	0.4710526	0
C5N16	Trouble with Police	135	0.5333333	0.6780129	0

Normative sample (including overlap) item means:

Variable	Label	N	Mean	Std Dev	Minimum
C5N1	Physical Aggression	341	1.0674487	0.6540568	0
C5N2	Coercive Threat	341	0.7888563	0.7451760	0
C5N3	Shoplift under \$5	341	0.3519062	0.6225452	0
C5N4	Tobacco Use	341	0.1759531	0.4453776	0
C5N5	Carrying a weapon	340	0.2088235	0.4614123	0
C5N6	Property Destruction	341	0.4310850	0.6126857	0
C5N7	Stolen item between \$5 and \$50	341	0.2463343	0.5238655	0
C5N8	Marijuana Use	341	0.0821114	0.3329939	0
C5N9	School Suspension/Expulsion	341	0.7507331	0.6769575	0
C5N10	Gang Fight	341	0.3460411	0.5920233	0
C5N11	Stolen Item over \$50	341	0.1788856	0.4604601	0
C5N12	Alcohol Use	341	0.1495601	0.4248613	0
C5N13	Drug Use	341	0.0322581	0.2075428	0
C5N14	Inhalant Use	341	0.1583578	0.4251252	0
C5N15	Gang Fight	341	0.0791789	0.3292691	0
C5N16	Trouble with Police	341	0.3695015	0.5776291	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	.86
Standardized	.86	.86
Other Drug Use		
Raw	.48	.70

Standardized	.53	.71
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Correlation Analysis – TFD full sample

The SAS System

The CORR Procedure

16 Variables:	C5N1	C5N2	C5N3	C5N4	C5N5	C5N6	C5N7	C5N8	C5N9
	C5N10	C5N11	C5N12	C5N13	C5N14	C5N15	C5N16		

Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
C5N1	544	1.07169	0.65394	583.00000	0	2.00000
C5N2	544	0.79596	0.74866	433.00000	0	2.00000
C5N3	544	0.37132	0.62630	202.00000	0	2.00000
C5N4	544	0.21324	0.48791	116.00000	0	2.00000
C5N5	543	0.21915	0.47623	119.00000	0	2.00000
C5N6	544	0.44485	0.62535	242.00000	0	2.00000
C5N7	544	0.24265	0.52554	132.00000	0	2.00000
C5N8	544	0.09191	0.35751	50.00000	0	2.00000
C5N9	544	0.78309	0.68448	426.00000	0	2.00000
C5N10	544	0.40074	0.64605	218.00000	0	2.00000
C5N11	544	0.18382	0.46935	100.00000	0	2.00000
C5N12	544	0.15257	0.43413	83.00000	0	2.00000
C5N13	544	0.03860	0.22785	21.00000	0	2.00000
C5N14	544	0.15074	0.41081	82.00000	0	2.00000
C5N15	544	0.08272	0.34137	45.00000	0	2.00000
C5N16	544	0.38235	0.59536	208.00000	0	2.00000

Simple Statistics

Variable	Label
C5N1	Physical Aggression
C5N2	Coercive Threat
C5N3	Shoplift under \$5
C5N4	Tobacco Use
C5N5	Carrying a weapon
C5N6	Property Destruction
C5N7	Stolen item between \$5 and \$50
C5N8	Marijuana Use
C5N9	School Suspension/Expulsion
C5N10	Gang Fight
C5N11	Stolen Item over \$50
C5N12	Alcohol Use
C5N13	Drug Use
C5N14	Inhalant Use
C5N15	Gang Fight
C5N16	Trouble with Police

The SAS System

The CORR Procedure

Pearson Correlation Coefficients

Prob > |r| under H0: Rho=0

Number of Observations

	C5N1	C5N2	C5N3	C5N4	C5N5	C5N6
C5N1	1.00000	0.35720	0.23166	0.12516	0.17347	0.30466
Physical Aggression		<.0001	<.0001	0.0035	<.0001	<.0001
	544	544	544	544	543	544
C5N2	0.35720	1.00000	0.30721	0.16471	0.22828	0.32798
Coercive Threat	<.0001		<.0001	0.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N3	0.23166	0.30721	1.00000	0.42142	0.40637	0.35332
Shoplift under \$5	<.0001	<.0001		<.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N4	0.12516	0.16471	0.42142	1.00000	0.32991	0.25590
Tobacco Use	0.0035	0.0001	<.0001		<.0001	<.0001
	544	544	544	544	543	544
C5N5	0.17347	0.22828	0.40637	0.32991	1.00000	0.31704
Carrying a weapon	<.0001	<.0001	<.0001	<.0001		<.0001
	543	543	543	543	543	543
C5N6	0.30466	0.32798	0.35332	0.25590	0.31704	1.00000
Property Destruction	<.0001	<.0001	<.0001	<.0001	<.0001	
	544	544	544	544	543	544
C5N7	0.17436	0.30862	0.44194	0.27187	0.33203	0.40503
Stolen item between \$5 and \$50	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N8	0.05841	0.14588	0.25031	0.43643	0.38406	0.30278
Marijuana Use	0.1737	0.0006	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N9	0.35573	0.39863	0.33859	0.21044	0.24432	0.39364
School Suspension/Expulsion	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N10	0.27188	0.28359	0.25512	0.20165	0.30701	0.25993
Gang Fight	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544

The SAS System

The CORR Procedure

Pearson Correlation Coefficients

Prob > |r| under H0: Rho=0

Number of Observations

	C5N7	C5N8	C5N9	C5N10	C5N11	C5N12
C5N1	0.17436	0.05841	0.35573	0.27188	0.17899	0.18845
Physical Aggression	<.0001	0.1737	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	544	544
C5N2	0.30862	0.14588	0.39863	0.28359	0.27465	0.27162
Coercive Threat	<.0001	0.0006	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	544	544
C5N3	0.44194	0.25031	0.33859	0.25512	0.42519	0.40085
Shoplift under \$5	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	544	544
C5N4	0.27187	0.43643	0.21044	0.20165	0.36733	0.31562
Tobacco Use	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	544	544
C5N5	0.33203	0.38406	0.24432	0.30701	0.42960	0.43524
Carrying a weapon	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	543	543	543	543	543	543
C5N6	0.40503	0.30278	0.39364	0.25993	0.29186	0.25152
Property Destruction	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	544	544
C5N7	1.00000	0.27315	0.35137	0.25007	0.54306	0.28139
Stolen item between \$5 and \$50		<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	544	544
C5N8	0.27315	1.00000	0.19450	0.20701	0.39301	0.39597
Marijuana Use	<.0001		<.0001	<.0001	<.0001	<.0001
	544	544	544	544	544	544
C5N9	0.35137	0.19450	1.00000	0.39683	0.32498	0.24793
School Suspension/Expulsion	<.0001	<.0001		<.0001	<.0001	<.0001
	544	544	544	544	544	544
C5N10	0.25007	0.20701	0.39683	1.00000	0.31537	0.28063
Gang Fight	<.0001	<.0001	<.0001		<.0001	<.0001
	544	544	544	544	544	544

The SAS System

The CORR Procedure

Pearson Correlation Coefficients

Prob > |r| under H0: Rho=0

Number of Observations

	C5N13	C5N14	C5N15	C5N16
C5N1	0.01847	0.15165	0.15488	0.20382
Physical Aggression	0.6673 544	0.0004 544	0.0003 544	<.0001 544
C5N2	0.10024	0.13013	0.16705	0.28278
Coercive Threat	0.0194 544	0.0024 544	<.0001 544	<.0001 544
C5N3	0.27363	0.20436	0.26091	0.48779
Shoplift under \$5	<.0001 544	<.0001 544	<.0001 544	<.0001 544
C5N4	0.33997	0.15174	0.26984	0.34645
Tobacco Use	<.0001 544	0.0004 544	<.0001 544	<.0001 544
C5N5	0.26159	0.30182	0.40978	0.45073
Carrying a weapon	<.0001 543	<.0001 543	<.0001 543	<.0001 543
C5N6	0.22823	0.19730	0.22414	0.42772
Property Destruction	<.0001 544	<.0001 544	<.0001 544	<.0001 544
C5N7	0.27537	0.22266	0.32932	0.37982
Stolen item between \$5 and \$50	<.0001 544	<.0001 544	<.0001 544	<.0001 544
C5N8	0.47635	0.23151	0.39028	0.36237
Marijuana Use	<.0001 544	<.0001 544	<.0001 544	<.0001 544
C5N9	0.11283	0.22783	0.19516	0.39370
School Suspension/Expulsion	0.0084 544	<.0001 544	<.0001 544	<.0001 544
C5N10	0.19498	0.29240	0.25024	0.41486
Gang Fight	<.0001 544	<.0001 544	<.0001 544	<.0001 544

The SAS System

The CORR Procedure

Pearson Correlation Coefficients

Prob > |r| under H0: Rho=0

Number of Observations

	C5N1	C5N2	C5N3	C5N4	C5N5	C5N6
C5N11	0.17899	0.27465	0.42519	0.36733	0.42960	0.29186
Stolen Item over \$50	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N12	0.18845	0.27162	0.40085	0.31562	0.43524	0.25152
Alcohol Use	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N13	0.01847	0.10024	0.27363	0.33997	0.26159	0.22823
Drug Use	0.6673	0.0194	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N14	0.15165	0.13013	0.20436	0.15174	0.30182	0.19730
Inhalant Use	0.0004	0.0024	<.0001	0.0004	<.0001	<.0001
	544	544	544	544	543	544
C5N15	0.15488	0.16705	0.26091	0.26984	0.40978	0.22414
Gang Fight	0.0003	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544
C5N16	0.20382	0.28278	0.48779	0.34645	0.45073	0.42772
Trouble with Police	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
	544	544	544	544	543	544

Pearson Correlation Coefficients

Prob > |r| under H0: Rho=0

Number of Observations

	C5N7	C5N8	C5N9	C5N10	C5N11	C5N12
C5N11	0.54306	0.39301	0.32498	0.31537	1.00000	0.40440
Stolen Item over \$50	<.0001	<.0001	<.0001	<.0001		<.0001
	544	544	544	544	544	544
C5N12	0.28139	0.39597	0.24793	0.28063	0.40440	1.00000
Alcohol Use	<.0001	<.0001	<.0001	<.0001	<.0001	
	544	544	544	544	544	544
C5N13	0.27537	0.47635	0.11283	0.19498	0.29516	0.31271
Drug Use	<.0001	<.0001	0.0084	<.0001	<.0001	<.0001
	544	544	544	544	544	544

The SAS System

The CORR Procedure

Pearson Correlation Coefficients

Prob > |r| under H0: Rho=0

Number of Observations

	C5N7	C5N8	C5N9	C5N10	C5N11	C5N12
C5N14 Inhalant Use	0.22266 <.0001 544	0.23151 <.0001 544	0.22783 <.0001 544	0.29240 <.0001 544	0.22853 <.0001 544	0.25288 <.0001 544
C5N15 Gang Fight	0.32932 <.0001 544	0.39028 <.0001 544	0.19516 <.0001 544	0.25024 <.0001 544	0.39917 <.0001 544	0.37447 <.0001 544
C5N16 Trouble with Police	0.37982 <.0001 544	0.36237 <.0001 544	0.39370 <.0001 544	0.41486 <.0001 544	0.44661 <.0001 544	0.37953 <.0001 544

Pearson Correlation Coefficients

Prob > |r| under H0: Rho=0

Number of Observations

	C5N13	C5N14	C5N15	C5N16
C5N11 Stolen Item over \$50	0.29516 <.0001 544	0.22853 <.0001 544	0.39917 <.0001 544	0.44661 <.0001 544
C5N12 Alcohol Use	0.31271 <.0001 544	0.25288 <.0001 544	0.37447 <.0001 544	0.37953 <.0001 544
C5N13 Drug Use	1.00000 544	0.27220 <.0001 544	0.26667 <.0001 544	0.27112 <.0001 544
C5N14 Inhalant Use	0.27220 <.0001 544	1.00000 544	0.19983 <.0001 544	0.26088 <.0001 544
C5N15 Gang Fight	0.26667 <.0001 544	0.19983 <.0001 544	1.00000 544	0.40590 <.0001 544
C5N16 Trouble with Police	0.27112 <.0001 544	0.26088 <.0001 544	0.40590 <.0001 544	1.00000 544