Why Do Black Youth Use Drugs Less Than White Youth?

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Introduction

Black-white differences in drug use among adolescents

Use of licit and illicit drugs: Blacks < Whites
 Cf. Non-drug delinquency: Blacks > Whites

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 Cf. Non-drug delinquency: Blacks > Whites
- Prior research on adolescent drug use
 - Protective factors
 - e.g., parental attachment, "stakes in conformity," positive self-concept
 - Risk factors
 - e.g., drug-using friends, low self-control, psychological distress

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 Cf. Non-drug delinquency: Blacks > Whites
- Prior research: Explanations
 - Protective factors
 - e.g., parental attachment, "stakes in conformity," positive self-concept
 - Risk factors
 - e.g., drug-using friends, low self-control, psychological distress
- Prior research: A key limitation
 - Non-developmental
 - Confined to adolescence without childhood & adulthood included
 - Relatively short-term effects of religious involvement

Exposure to drug users: Risk factor

Religion: Protective factor

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Social learning theory

- Drug-using parents & peers
 - Imitation, pro-drug attitudes, differential reinforcement, peer pressure

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 - Religious background & upbringing: Understudied
- Differential reporting: Methodological artifact
 - Black youth more likely to underreport drug use than whites
 - Unlikely to explain away black-white differences in drug use

The Present Study

Hypothesis I

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 - religious upbringing & childhood exposure to parents drug use

current religiosity & association with drug-using peers

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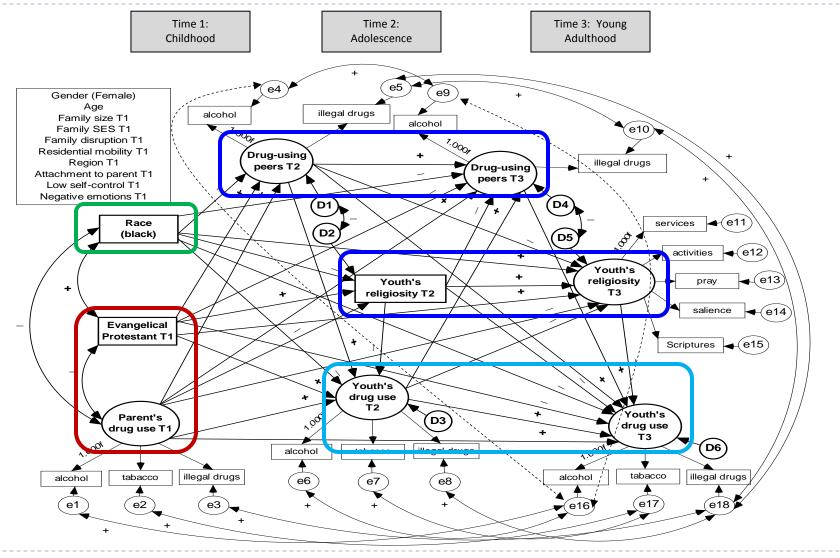
Hypothesis I

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Hypothesis 2

- Black-white differences in drug use are explained by the race differences in:
 - religious upbringing & childhood exposure to parents drug use
 raised in an evangelical Protestant tradition
 - □ parent's smoking, drinking, and/or using illegal drugs
 - current religiosity & association with drug-using peers
 religious involvement
 - □ friends' smoking, drinking, and/or using illegal drugs

Figure 1. Theoretical Model of Youth's Drug Use during Adolescence and Young Adulthood



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 - The weighted sample (n = 1,127) is representative of the U.S. population of children born between 9/1/64 and 12/31/69 and living in the households in the 48 contiguous states in 1976

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- Religious upbringing
 - How important it was to the parent respondent to provide religious training for his/her child aside from attending religious services
- Religious affiliation/denominations
 - Steensland et al.'s (2000) RELTRAD classification scheme
 - Evangelical Protestant, Mainline Protestant, Catholic, Jewish, Other religion, No religion

- Child's religiosity (α = .79 at W3; N.A. for W1 & W2)
 - Frequency of attendance at religious service (also asked whether the child liked or disliked going to church, Synagogue, or Sunday School)
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 - Low self-control, emotional distress
- Sociodemographic controls

Results: Descriptive Statistics

Table 1. Descriptive Statistics, T-test Results, and Frequency Distribution of Variables (Weighted)

Variable	Mean			Standard Deviation			Minimum	Maximum	n
	Total	Black	White	Total	Black	White			
Race (black)	.152			.359			0	1	1,083
Sex (female)	.489	.491	.488	.500	.501	.500	0	1	1,083
Age T1	9.044	9.104	9.033	1.617	1.570	1.626	6	12	1,083
Family size T1	3.343	4.262	3.178*	1.617	1.947	1.493	1	7	1,083
Family SES T1	.060	-2.038	.436*	2.377	2.326	2.183	330	7.240	1,083
Family SES T2	.047	-1.248	.272*	1.632	1.783	1.494	-6.300	4.460	1,077
Family SES T3	.022	-1.067	.212*	1.666	1.655	1.594	-6.340	4.880	1,029
Family disruption T1	.130	.237	.110*	.336	.427	.313	0	1	1,083
Family disruption T2	.157	.252	.140*	.364	.436	.347	0	1	1,083
Family disruption T3	.161	.301	.136*	.368	.460	.343	0	1	1,083
Residential mobility T1	1.336	1.565	1.295*	1.715	1.760	1.704	0	15	1,083
Residential mobility T2	2.224	2.314	2.208	2.722	2.557	2.752	0	17	1,083
Residential mobility T3	5.094	4.505	5.199+	3.997	3.768	4.029	0	32	1,083
Attachment to parent T1	3.599	3.621	3.596	.762	.791	.757	1	5	1,080
Attachment to parent T2	17.231	17.165	17.242	2.278	2.675	2.205	8	20	1,060
Attachment to parent T3	8.102	7.252	8.254+	2.198	2.651	2.072	1	12	1,083
Low self-control T1	5.826	5.580	5.870	2.348	2.458	2.326	3	18	1,083
Low self-control T2	4.033	4.057	4.029	1.112	1.191	1.099	2	9	1,078
Low self-control T3	7.890	7.610	7.940+	1.937	1.975	1.926	5	15	1,070
Negative emotions T1	015	165	.012	2.653	2.641	2.656	-5.300	8.210	1,083
Negative emotions T2	3.736	3.855	3.716	1.489	1.587	1.472	1	8	1,059
Negative emotions 15	27.475	20.000	27.200	8.595	9.683	8.375	16	64	1,070
Parent's drug use T1	.002	479	.087*	2.054	1.962	2.059	-4.980	8.610	1,070
Drug-using peers T2	025	329	.029*	1.615	1.708	1.593	-2.200	2.010	1,070
Drug-using peers T3	026	247	.014*	1.684	1.864	1.648	-2.770	4.520	1,067
Evangelical Protestant T1	.421	.834	.347*	.494	.374	.476	0	1	1,083
Youth's religiosity T2	12.636	13.041	12.569	5.221	4.796	5.288	1	20	1,047
Youth's religiosity T3	.081	1.836	230*	3.673	2.987	3.697	-8.120	8.240	1,070
Youth's drug use T2	019	643	.087*	2.368	1.977	2.413	-1.960	11.530	1,058
Youth's drug use T3	.007	-1.001	.186*	2.252	2.187	2.217	-3.330	8.320	1,070

Results: Descriptive Statistics (continues)

Variable	Category	Frequency	Percent	Cumulative Percent
Region of residence T1	Northeast	255	23.5	23.5
-	Midwest	349	32.3	55.8
	South	386	35.7	91.4
	West	93	8.6	100.0
		1,083	100.0	
Religion child was	Evangelical Protestant	456	42.1	42.1
raised in T1	Mainline Protestant	248	22.9	65.0
	Catholic	264	24.4	89.5
	Jewish	7	.6	90.1
	Other religion	15	1.4	91.5
	None/No religion	93	8.5	100.0
	0	1,083	100.0	

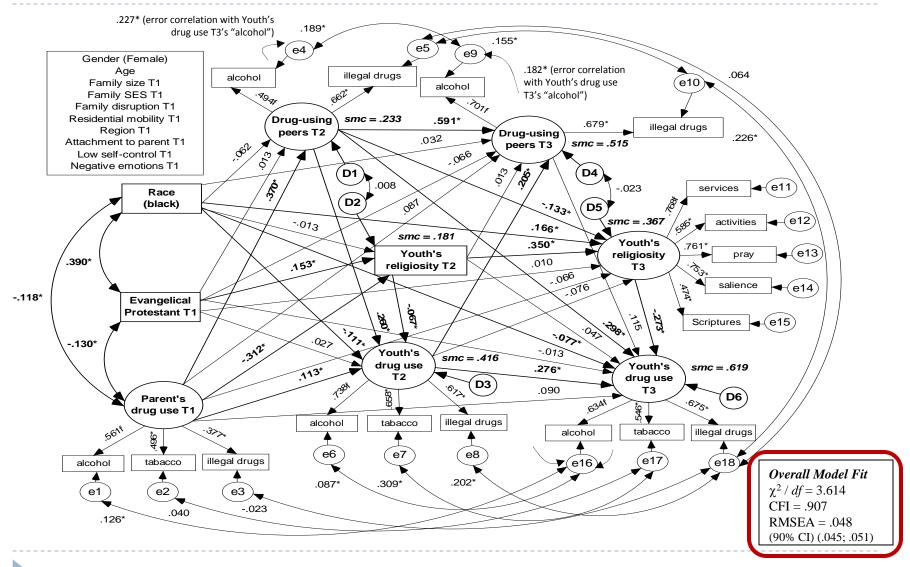
Note. Items used to construct variable's measure are mostly not the same across waves, so measures of a same variable cannot be directly compared among the waves in terms of descriptive statistics, such as mean. * p < .05 (one-tailed test), + p < .05 (one-tailed test)

Results: SEM

Independent	Baseline	Model	Model	Model	Model	Model	Model	Model	Mode	l Full
Variable	Model	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Model
Black (B)	453*	421*	397*	305*	371*	379*	261*	285*	345	*249*
	(065)	(068)	(064)	(.063)	(060)	(067)	(058)	(066)	(059	(060)
Female Age Family size T1 Family SES T3 Family disruption T3 Residential mobility T3 Northeast T1 Midwest T1 West T1 Attachment to parent T3 Low	.222 (.047) .096* (.015) .007 (.015) .037* (.015) .077 (.063) .024* (.006) .243 ⁺ (.063) .240 ⁺ (.059) .198 (.103) 040* (.012) .096*	.229 .0047) .096* (.015) .005 (.016) .029* (.016) .071 (.064) .024* (.066) .186* (.069) .206* (.062) .159 (.106) 039* (.012) .098*	(.046) .087* (.015) .012 (.015) .036* (.015) .017 (.063) .017* (.066) .203* (.062) .180* (.058) .154 (.101) 029* (.011) .092*	(.046) .087* (.014) .022 (.015) .048* (.015) .047 (.061) .017* (.006) .078 (.062) .095 (.058) .084 (.099) 017 (.011) .078*	(.044) .082* (.014) .029* (.014) .029* (.014) .049 (.058) .015* (.006) .129 ⁺ (.059) .167 ⁺ (.054) .158 (.095) .027* (.011) .075*	.249 (.047) .087* (.015) .010 (.015) .028* (.015) .012 (.064) .164* (.068) .157* (.061) .127 (.104) 029* (.012) .094*		(.046) .087* (.014) .021 (.015) .041* (.015) .043 (.061) .048* (.006) .040 (.067) .074 (.060) .059 (.101) 016 (.011) .080*	.10 (.043 .076 (.013 .000 (.014 .028 (.014 .010 (.057 .012 (.006 .114 (.057 .129 (.092 021 (.010 .074	.003 (.043) .073* (.013) .010 (.014) * .034* (.014) 002 (.056) * .010* (.061) .039 (.055) .047 (.092) * .007 (.010) * .064*
self-control T3 Negative	(.013) .009*	(.013) .010*	(.012) .007*	(.012) .012*	(.012) .006*	(.012) .008*	(.011) .008*	(.012) .012*	.011) .005 .003	(.011) * .007*
Evangencal Protestant T1 Parent's drug use T1 Youth's religiosity T3 Drug-using peer association T3		132 (.059)	.322* (.071)	337* (.039)	.359* (.048)	094 (.058) .313* (.071)	278* (.037) .320* (.047)	087 (.056) 337* (.040)	.197 (.067 .331 (.051	032 (.051) * .131* (.067) 254* (.037) * .303* (.049)
2م	246	250	406	.451	472	.410	547	454	409	560
∆Bª		032	056	148	082	074	192*	168*	108	204*
(z statistic)		(034)	(614)	(-1.635)	(927)	(793)	(-2.204)	(-1.814)	-1.230	(-2.306)
% change		7.06%	12.36%	32.67%	18.10%	16.34%	42.38%	37.09%	23.849	45.03%
χ ² / df	5.702	5.671	5.322	5.090	5.291	5.191	4.746	5.046	5.034	4.508
CFI	.938	.947	.895	.905	.932	.910	.906	.911	.896	.890
RMSEA	.065	.065	.062	.060	.062	.061	.058	.060	.060	.056
(90% CI) (.0	055; .075) (.0	55; .074) (.	055; .069) (.	.055; .066) (.	054; .070) (.	055; .068)	053; .063) (.	055; .065) (.0	54; .066	(.052; .060)

^a Refers to change in the unstandardized coefficient of the race dummy variable (*B*), which measures black-white difference in drug use. Negative value indicates decrease in the coefficient, that is, added variable(s) explaining the race difference. Statistical significance of the change was tested based on *z* statistic (Paternoster et al. 1998). * p < .05 (one-tailed test), * p < .05 (two-tailed test).

Figure 2. Structural Equation Model of Youth's Drug Use during Adolescence and Young Adulthood (n = 1,122)



Summary

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- Black youth use licit and illicit drugs less than white youth during adolescence and young adulthood.
- Black youth less likely to drink alcohol, smoke cigarettes, and use illegal substances than white youth.

Summary & Conclusions

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Hypothesis 2

- Black-white differences in drug use are explained by the race differences in (a) religious upbringing & childhood exposure to drug-using parents and (b) current religiosity & drug-using peer association.
- Black-white differences in drug use <u>during young adulthood</u> were **partly but significantly explained** by the explanatory variables, while the differences <u>during</u> <u>adolescence</u> were **not**.