Externalizing Behavior Predicts Differential Patterns of Substance Use among Adolescents by Race

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INTRODUCTION

Early substance use has been linked to negative developmental outcomes on the brain and chronic diseases. Cannabis, alcohol, & nicotine are the substances most frequently used by adolescents. Externalizing behavior is a strong predictor of substance use among adolescents. It refers to an aversive and disruptive behavior towards other people or things (e.g., breaking the rules, lying, or becoming aggressive). According to deviance proneness models, externalizing behavior leads to substance use via impulsive traits, low cognitive inhibition, association with deviant peers or parenting problems.

Previous research suggests that risk factors for adolescent substance use, including externalizing behavior, differ for Black and White youth. For example, in treatment and juvenile-justice settings, externalizing behavior was related to substance use among White youth but not Black youth.

It is unknown if these racial differences apply in broader adolescent groups. It is also unknown if externalizing behavior is differentially related to cannabis, alcohol, and nicotine use. Identifying the relationship between externalizing behavior and substance use by race and substance type will inform prevention programs that better prevent racial disparities in substance use among adolescents.

METHOD

We recruited non-Hispanic Black (n = 16) and white (n = 20) adolescents ages 14-18 who owned a cellphone and reported past 30-day use of at least one of: alcohol, cannabis, or nicotine. Participants completed a baseline survey measuring externalizing behavior via the Youth Self Report followed by daily surveys delivered to their phones for 14 consecutive days that measured daily use of alcohol, cannabis, and nicotine use.

RESULTS

In the full sample, externalizing behavior was negatively associated with alcohol use (OR = .84, p = .038), but did not predict cannabis or nicotine use. However, there was a significant interaction between race and externalizing behavior for cannabis (OR = 1.90, p < .001) and nicotine (OR = 1.32, p = .048)—externalizing behavior predicted use of both among White, but not Black adolescents (see figure).

DISCUSSION

Externalizing behaviors predicted cannabis and nicotine smoking among White adolescents but not among Black adolescents.

Substance use among Black adolescents may be more related to social and structural factors rather than behavioral factors.

References