

# Negative Urgency, Parental Monitoring, and Substance Use among At-Risk Adolescents



Paula N. Floyd<sup>1</sup>, Nora E. Charles<sup>1</sup>, and Christopher T. Barry<sup>2</sup>

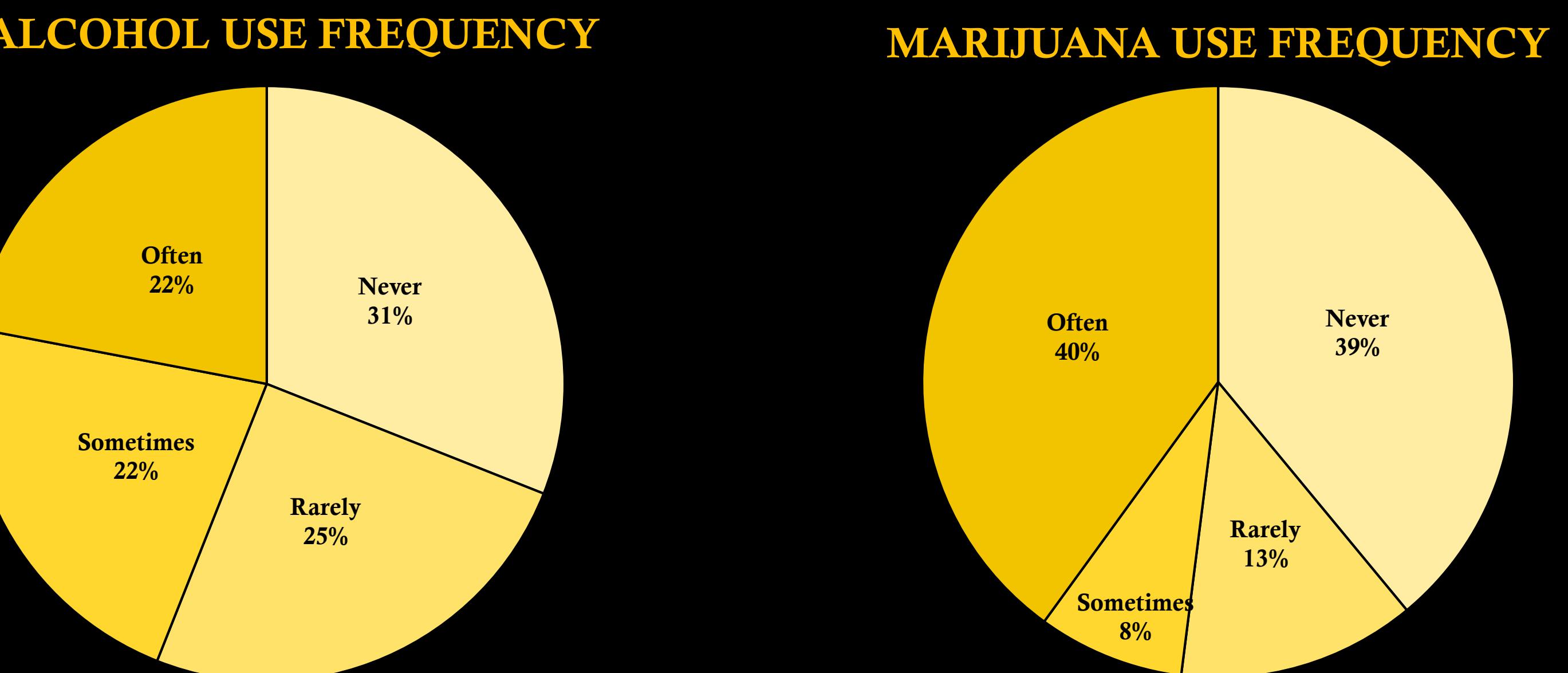
<sup>1</sup>The University of Southern Mississippi

<sup>2</sup>Washington State University



## INTRODUCTION

- **Negative urgency (NU):** the tendency to act impulsively when experiencing unpleasant emotions
- NU strongly associated with problematic substance use among adolescents<sup>1, 2</sup>
- **Poor parental monitoring (PPM)** also strongly associated with problematic substance use among adolescents<sup>3</sup>
- No known research has examined negative urgency and poor parental monitoring as simultaneous predictors of adolescent substance use



ALCOHOL	Wald $\chi^2$	p-value
Race (White)	2.697	.101
PPM	1.794	.180
NU	5.891	.015
MARIJUANA	Wald $\chi^2$	p-value
PPM	.029	.864
NU	18.511	.000

## DISCUSSION

- Only NU was significantly associated with frequency of both alcohol and marijuana use
- Consistent with literature stating that NU is an important factor<sup>1, 2</sup>
- Inconsistent with literature on the importance of parental monitoring<sup>3</sup>
- When examining NU and PPM simultaneously, higher NU may be more predictive of substance use than PPM
- Higher NU may be predictive of substance use despite parental efforts to monitor the child's engagement in risky behavior

## METHODS

### Participants:

- 183 adolescents in a residential facility
- Ages 16-19 years ( $M = 16.72$  years)
- 81.9% male ••• 59.0% White, 28.4% Black
- 68.9% use alcohol ••• 61.2% use marijuana

### Measures:

- UPPS-P Impulsive Behavior Scale<sup>4</sup>
- Alabama Parenting Questionnaire (APQ)<sup>5</sup>
- Youth Risk Behavior Survey (YRBS)<sup>6</sup>

### Procedures:

- Data collected as part of larger study
- Participants completed surveys via Qualtrics

## RESULTS

- Sex and race considered as covariates using nonparametric tests
- Two separate ordinal logistic regression models, with alcohol and marijuana use frequency as outcome variables
- NU and PPM entered as predictor variables
- Significant difference in alcohol use frequency across racial groups ( $\chi^2 (6) = 16.50, p < .05$ )

### Alcohol Model:

- Overall model was significant ( $\chi^2 (3) = 13.31, p < .01$ )
- NU was only significant predictor ( $\chi^2 (1) = 5.891, p < .05$ )

### Marijuana Model:

- Overall model was significant ( $\chi^2 (1) = 20.78, p < .001$ )
- NU was only significant predictor ( $\chi^2 (1) = 18.511, p < .001$ )

## IMPLICATIONS

- Can use objective measures of impulsivity (specifically focusing on NU) to assess for the likelihood of problematic substance use
- Target NU in substance use treatment and prevention efforts for adolescents by discussing negative emotions and building skills for coping with those emotions
- Future studies may examine the relationship between NU, PPM, and other risk-taking behaviors (e.g., risky sexual behavior, illegal activity) among adolescents

## REFERENCES:

1. Verdejo-García, A., Bechara, A., Recknor, E. C., & Pérez-García, M. (2007). Negative emotion-driven impulsivity predicts substance use dependence problems. *Drug and Alcohol Dependence*, 91(2-3), 213-219. <https://doi.org/10.1016/j.drugalcdep.2007.05.025>
2. Wardell, J. D., Strang, N. M., & Hendershot, C. S. (2016). Negative urgency mediates the relationship between childhood maltreatment and problems with alcohol and cannabis in late adolescence. *Addictive Behaviors*, 56, 1-7. <https://doi.org/10.1016/j.addbeh.2016.01.003>
3. Steinberg, L., Fletcher, A., & Darling, N. (1994). Parental monitoring and peer influences on adolescent substance use. *Pediatrics*, 93(6, Part 2), 1060-1064. PMID: 8197008
4. Lynam, D. R., Smith, G. T., Cyders, M. A., Fischer, S., & Whiteside, S. A. (2007). The UPPS-P: A multidimensional measure of risk for impulsive behavior. *Unpublished technical report*.
5. Frick, P. J. (1991). The Alabama parenting questionnaire. *Unpublished rating scale*, University of Alabama.
6. Centers for Disease Control and Prevention. (2015). Youth risk behavior survey questionnaire. Available at: [www.cdc.gov/yrbs](http://www.cdc.gov/yrbs).