

University of North Dakota UND Scholarly Commons

Theses and Dissertations

Theses, Dissertations, and Senior Projects

January 2019

Associations Between Parental Alcoholism And Adult Internalized And Externalized Indicators Of Maladjustment

Stephanie Brezinski

Follow this and additional works at: https://commons.und.edu/theses

Recommended Citation

Brezinski, Stephanie, "Associations Between Parental Alcoholism And Adult Internalized And Externalized Indicators Of Maladjustment" (2019). *Theses and Dissertations*. 2548. https://commons.und.edu/theses/2548

This Thesis is brought to you for free and open access by the Theses, Dissertations, and Senior Projects at UND Scholarly Commons. It has been accepted for inclusion in Theses and Dissertations by an authorized administrator of UND Scholarly Commons. For more information, please contact zeinebyousif@library.und.edu.

ASSOCIATIONS BETWEEN PARENTAL ALCOHOLISM AND ADULT INTERNALIZED AND EXTERNALIZED INDICATORS OF MALADJUSTMENT

by

Stephanie Joy Brezinski Bachelor of Arts, Winona State University, 2016

A Thesis

Submitted to the Graduate Faculty

of the

University of North Dakota

in partial fulfillment of the requirements

for the degree of

Master of Arts

Grand Forks, North Dakota

August 2019

Copyright 2019 Stephanie Joy Brezinski

This thesis, submitted by Stephanie Joy Brezinski in partial fulfillment of the requirements for the Degree of Master of Arts from the University of North Dakota, has been read by the Faculty Advisory Committee under whom the work has been done and is hereby approved.

Alan King (Chairperson)

Thomas Petros

F. Richard Ferraro

This thesis is being submitted by the appointed advisory committee as having met all of the requirements of the School of Graduate Studies at the University of North Dakota and is hereby approved.

Chris Nelson Dean of the School of Graduate Studies

Date

PERMISSION

| Title | Associations Between Parental Alcoholism and Adult Internalized and Externalized Indicators of Maladjustment |
|------------|---|
| Department | Psychology |
| Degree | Master of Arts |

In presenting this thesis in partial fulfillment of the requirements for a graduate degree from the University of North Dakota, I agree that the library of this University shall make it freely available for inspection. I further agree that permission for extensive copying for scholarly purposes may be granted by the professor who supervised my thesis work or, in his absence, by the Chairperson of the department or the dean of the School of Graduate Studies. It is understood that any copying or publication or other use of this thesis or part thereof for financial gain shall not be allowed without my written permission. It is also understood that due recognition shall be given to me and to the University of North Dakota in any scholarly use which may be made of any material in my thesis.

Stephanie Joy Brezinski June 18, 2019

TABLE OF CONTENTS

| LIST OF TABLES | vii |
|-----------------------------------|------|
| ACKNOWLEDGMENTS | viii |
| ABSTRACT | ix |
| CHAPTER | |
| I. INTRODUCTION | 1 |
| Alcohol-Related Risks | 1 |
| Psychopathology-Related Risks | 3 |
| Sex Differences in Parent | 5 |
| Sex Differences in Offspring | 7 |
| Projective Objectives | 9 |
| Analytic Strategy | 10 |
| II. METHODS | 12 |
| Participants and Procedure | 12 |
| Measures | 14 |
| III. RESULTS | |
| Descriptive Statistics | 21 |
| Bivariate Correlation Analyses | 21 |
| Multivariate Analysis of Variance | 22 |
| Analyses of Variance | 22 |

| Relative Risk Analyses | 23 |
|-----------------------------------|----|
| IV. DISCUSSION | |
| Limitations and Future Directions | |
| Conclusions | |
| APPENDICES | |
| REFERENCES | 43 |

LIST OF TABLES

| Table | | Page |
|-------|--|------|
| 1. | Factor Loading Contrasts in a Two-Factor Internalized-Externalized Solution. | 33 |
| 2. | Descriptive Statistics for Predictor and Criterion Variables in the College Sample | 34 |
| 3. | Descriptive Statistics for Predictor and Criterion Variables in the National Sample | 35 |
| 4. | Paternal, Maternal, and Parental CAST Alcoholism Distributions | 36 |
| 5. | Bivariate Correlation Matrix of CAST Scores and Internalized Maladjustment Indicators | 37 |
| 6. | Bivariate Correlation Matrix of CAST Scores and Externalized Maladjustment Indicators | |
| 7. | Parental Alcoholism and Gender Interaction Analyses of Variance | |
| 8. | Parental Alcoholism Maladjustment Group Differences in College Sample | 40 |
| 9. | Parental Alcoholism Maladjustment Group Differences in National Sample | 41 |
| 10. | Relative Risks Posed by Parental Alcoholism Classifications | 42 |

ACKNOWLEDGMENTS

I wish to express my sincere appreciation to the members of my thesis committee for their guidance and support during this project. I especially want to thank my adviser, Dr. Alan King, for his guidance and support. I also want to thank my family, particularly my parents, for their unwavering love and support for all of my endeavors.

ABSTRACT

Associations between parental alcoholism and internalized and externalized indicators of maladjustment in adult children of alcoholics were examined. College students (N =2,531) and respondents from the general population (N = 703) provided self-reports of various internalized and externalized indicators of maladjustment. Several hypotheses were tested: (1) CAST scores will be positively associated with symptom severity; (2) Combined maternal and paternal alcoholism will be associated with the most severe maladjustment compared to ACAs from a single parent and/or non-ACAs; (3) Male ACAs will exhibit relatively more externalized symptoms than internalized symptoms and female ACAs will exhibit relatively more internalized symptoms than externalized symptoms; (4) Paternal alcoholism will be more strongly associated with externalized symptoms as opposed to internalized symptoms, particularly among male ACAs, and maternal alcoholism will be more strongly associated with internalized symptoms as opposed to externalized symptoms, particularly among female ACAs. Overall, consistent with previous literature, the present study found mixed results regarding the relationship between differential gender effects on ACAs risk of various internalized and externalized maladjustment indicators; however, our results from both samples provide further evidence that ACAs, regardless of gender and/or ACA status, appear to be at increased risk of both internalized and externalized forms of maladjustment compared to non-ACAs.

CHAPTER I

INTRODUCTION

In 2016, an estimated 14.6 million Americans, 18 years and older, met criteria for alcohol use disorder (AUD; Substance Use and Mental Health Services Administration, 2016). In 2017, approximately 7.5 million children under the age of 17 lived with at least one parent with an AUD (Lipari & Van Horn, 2017). These individuals are commonly referred to as adult children of alcoholics (ACAs). Anda et al. (2002) reported that ACAs have a 3.5-5.6-fold risk of developing alcoholism, regardless if they were exposed to any other form of adverse childhood experiences (ACEs). According to the literature ACAs are at such an increased risk for developing alcohol use problems due to biological predispositions as well as environmental risk factors.

Alcohol-Related Risks

The literature identifies various genetic influences that may be involved in the development of alcoholism. For example, Dager et al. (2015) found a correlation between amygdala volume and the risk of AUD. The researchers found that individuals with AUD had smaller amygdala volumes compared to non-AUD individuals; however, they found that non-AUD individuals with a family history of AUD also showed reduced amygdala volume. This suggests that reduced amygdala volume is a pre-existing structural difference rather than alcohol-induced damage (Dager et al., 2015). Another study by Herting, Schwartz, Mitchell, and Nagel (2010) found that ACAs have a disrupted white matter microstructure. The authors reported that this disruption may decrease ACAs efficiency of cortical processing, which may increase their susceptibility of developing AUD (Herting, Schwartz, Mitchell, & Nagel, 2010). Family density of alcohol problems

also appears to increase a ACAs risk of developing alcohol use problems (Anda et al., 2002; Capone & Wood, 2008; Corte & Becherer, 2007; King & Chassin, 2007; Merikangas & Avenevoli, 2000; Perkin & Berkowitz, 1991; Schumacher, 1990; Slutske et al., 2008). Dawson, Harford, and Grant (1992) found that a ACAs risk of developing alcohol dependence increased depending on the relationship to the alcoholic family member. More specifically, a ACAs risk was increased by 45% with only second or third degree relatives with alcoholism, by 86% for individuals who only had first degree relatives with alcoholism, and by 167% for individuals who had first, second, and third degree relatives with alcoholism (Dawson, Harford, & Grant, 1992). This is consistent with Perkin and Berkowitz (1991) who reported multigenerational alcoholism increased a ACAs risk of alcohol use problems. ACAs with an alcohol-misusing parent and alcoholmisusing grandparent reported heavier alcohol consumption and more frequent intoxication compared to both non- ACAs and ACAs with just an alcohol-misusing parent or alcohol-misusing grandparent (Perkin & Berkowitz, 1991). Schumacher (1990) also found that ACAs with two alcoholic parents significantly increased the amount of daily alcohol consumption compared to non- ACAs and ACAs with only one alcoholic parent. The author found that ACAs with two alcoholic parents drank an average of 3.2 oz. of alcohol per day, three times the average amount of the general population (.94 oz.), compared to ACAs with only maternal alcoholism (1.1 oz.), only paternal alcoholism (1.0 oz.), and neither parent alcoholic (1.1 oz; Schumacher, 1990). Several studies demonstrated having two alcoholic parents greatly increased a ACAs risk of not only alcohol misuse, but also mental health issues, drug misuse, and suicide attempts (Anda et al., 2002; Slutske et al., 2008). Other research has found the higher the family density of

alcoholism, the earlier the age of onset of drinking (Hill, Shen, Lowers, and Locke, 2000). It is important to consider the severity of risk for ACAs with a family density of alcohol problems, especially ACAs with two alcoholic parents, because not only are they at higher risk genetically for alcohol use problems, but also at an increased risk environmentally (Slutske et al., 2008).

Several studies found that, compared to non- ACAs, ACAs with one or two alcohol abusing parents were at significantly greater risk of suffering from multiple ACEs (i.e. physical abuse, emotional abuse, sexual abuse, emotional neglect, physical neglect, or parental separation or divorce; Dube et al., 2001; Thompson, Alonzo, Grant, & Hasin, 2013). Several studies have demonstrated that exposure to ACEs increases the likelihood of alcohol-related problems (Grayson & Nolen-Hoeksema, 2005; Harter & Taylor, 2000; Lown, Nayak, Korcha, & Greenfield, 2011; Sheridan, 1995; Shin, Hassamal, & Peasley Groves, 2015). These findings suggest the risk of developing alcohol use problems is especially problematic for ACAs who not only have at least one alcoholic parent, but also experience other forms of ACEs.

Psychopathology-Related Risks

In addition to an increased risk of developing alcohol-related problems, the literature indicates that ACAs are also at a heightened risk of developing psychopathology, especially ACAs with a higher family density of alcoholism (Alterman, Renner, Cacciola, Mulvaney, & Rutherford, 2000; Barnow, Schuckit, Smith, Preuss, & Danko, 2002; Corte & Becherer, 2007; Diaz et al., 2008; Earls, Rich, Jung, & Cloninger, 1998; Haber et al., 2010; Molina, Donovan, & Belendiuk, 2010). Much of the literature demonstrates that ACAs are at an increased risk of various internalizing (e.g. depression, anxiety) and externalizing (e.g. aggression, conduct disturbance, alcohol use, delinquency, ADHD) indicators of maladjustment. There is extensive literature demonstrating that ACAs are at higher risk of developing depression and/or anxiety and experiencing significantly less satisfaction with life (Belliveau & Stoppard, 1995; Corte & Becherer, 2007; Chen & Weitzman, 2005; Cuijpers, Langendoen, & Bijl, 1999; Diaz et al., 2008; Hall, Bolen, & Webster, 1994; Kelley et al., 2010; Klosterman et al., 2011; Reich, Earls, Frankel, & Shayka, 1993; Tomori, 1994). There is considerable evidence supporting the relationship between ACAs risk of developing various externalizing symptoms. Several studies have indicated an increased risk of conduct disturbance, aggression, anger, substance use, delinquency, ADHD, and oppositional defiant disorder in ACAs (Earls, Reich, Jung, & Cloninger, 1988; Edwards, Eiden, Colder, & Leonard, 2006; Haber, Jacob, & Heath, 2005; Haber et al., 2010; Hussong et al., 2007; Kuperman, Scholosser, Lidral, & Reich, 1999; Merikangas & Avenevoli, 2000; Obot & Anthony, 2004; Reich, Earls, Frankel, & Shayka, 1993; Tomori, 1994).

There is inconsistency in the literature evaluating ACAs risk of reporting psychopathology. Several studies have demonstrated no differences between ACAs and non- ACAs on psychopathology risk (Bijttebier, Goethals, & Ansoms, 2006; Drapkin, Eddie, Buffington, & McCrady, 2015; Jones, Perera-Diltz, Salyers, Laux, & Cochrane, 2007; Nicholas & Rasmussen, 2006; Reich, Earls, Frankel, & Shayka, 1993; Schumacher, 1990). Some research suggests that depressive symptoms reported by ACAs may even be better attributed to a history of parental mood disorders rather than to a history of parental alcoholism (Preuss, Schuckit, Smither, Barnow, & Danko, 2002). The

lack of consensus on the association between parental alcoholism and its effects on ACAs psychopathology highlights an important direction for future research.

Sex Differences in Parent

Most of the available literature indicates that paternal alcoholism significantly increases a ACAs risk of alcohol consumption. Corte and Becherer (2007) found having a family history of paternal alcoholism increased the likelihood of offspring problematic alcohol consumption whereas a family history of maternal alcoholism did not. Chassin, Curran, Hussong, and Colder (1996) found a strong relationship between paternal alcoholism and adolescent substance use. The authors found that adolescents with a history of paternal alcoholism were not only more likely to use substances, but also increased their substance use more rapidly compared to non- ACAs (Chassin, Curran, Hussong, & Colder, 1996). Another study showed that paternal alcoholism is more strongly associated with offspring alcohol problems, particularly for males (Ohanessian & Hesselbrock, 2004), while other research suggests paternal alcoholism is correlated with an increased risk of alcohol consumption for female offspring only (Coffelt et al., 2006). These studies illustrate how a history of paternal alcoholism can lead to an increased risk of problematic alcohol consumption in both male and female ACAs. Other research suggests that maternal alcoholism is more strongly associated with ACAs alcohol consumption. For instance, Pearson, D'Lima, and Kelley (2012) found that maternal alcoholism was most strongly associated with problematic alcohol use, particularly for female offspring. In this same study, male offspring were at increased risk for problematic alcohol use when both parents were alcoholic (Pearson, D'Lima, & Kelley, 2012). Another study found that ACAs with alcoholic mothers were at greater

risk for problematic alcohol consumption compared to ACAs with alcoholic fathers (Weitzman & Wechsler, 2000). These studies demonstrate how a history of maternal alcoholism can also lead to an increased risk of problematic alcohol consumption in both male and female offspring.

In contrast to the research on ACA alcohol consumption, much of the research on ACA risk of developing psychopathology suggests maternal alcoholism is more predictive of increased risk. Corte and Becherer (2007) demonstrate a relationship between maternal alcoholism and internalizing problems, specifically, major depressive disorder, generalized anxiety disorder, and obsessive-compulsive disorder. Morgan, Desai, and Potenza (2010) found that while both male and female offspring were at increased risk of psychopathology regardless of the sex of the alcoholic parent, female offspring with a history of maternal alcoholism were at a considerably greater risk of developing psychopathology compared to male offspring. Anda et al. (2002) found that ACAs with two alcoholic parents or just alcoholic mothers were at increased risk of psychopathology, substance misuse, and suicide attempts. Another study found that maternal alcoholism was associated with higher rates of both externalizing and internalizing symptoms, with particularly higher rates of externalizing behavior problems in young ACAs (Mesman, Edge, McKelvey, Pemberton, & Holmes, 2017). These studies demonstrate how a history of maternal alcoholism is associated with an increased risk of ACA psychopathology.

Other research suggests paternal alcoholism is more strongly associated with ACA risk of developing psychopathology. One study demonstrated that not only does paternal alcoholism significantly increase a ACAs likelihood of substance use, but was

also found to be a strong predictor of anxiety and mood disorders (Cuijpers, Langendoen, & Bijl, 1999). Another study demonstrates an increased risk of conduct disorder in offspring with a history of paternal alcoholism compared to offspring without a history of paternal alcoholism (Haber et al., 2010). Some research suggests that ACAs with both maternal and paternal alcoholism were at greatest risk for both internalizing and externalizing disorders, particularly anxiety disorders and ADHD (Earls, Reich, Jung, Cloninger, 1988). Taken together these studies demonstrate an inconsistency in the literature related to the relationship between sex of the alcoholic parent and risk of ACA problematic alcohol consumption and psychopathology, providing evidence of the need for future research to examine how sex of the alcoholic parent relates to offspring risk of problematic alcohol consumption and psychopathology.

Sex Differences in Offspring

According to the literature male offspring are more likely to experience conduct disturbance and aggression compared to female offspring. Edwards, Eiden, Colder, and Leonard (2006) found that male ACAs demonstrated higher levels of childhood aggression compared to female ACAs. The researchers also found that males with two alcoholic parents exhibited aggression longer than males in the control group (Edwards, Eiden, Colder, & Leonard, 2006). Kearns-Bodkin and Leonard (2008) also showed that men with a history of parental alcoholism, particularly maternal alcoholism, were more physically aggressive in their marriages. These studies demonstrate how a history of parental alcoholism can lead to aggressive behavior in male offspring. Related to conduct disturbance, Haber et al. (2010) demonstrated that male ACAs exhibited significantly higher rates of conduct disorder compared to male non- ACAs. Based on the literature female offspring are more likely to experience depression and anxiety symptoms compared to male offspring. Several studies have found that not only does being female independently predict a greater risk of depression and anxiety symptoms, but also a family history of alcoholism, particularly on the maternal side, increases the risk (Abdel-Kalack & Alansari, 2004; Corte & Becherer, 2007). Christensen and Bilenberg (1999) also demonstrated that females with a history of maternal alcoholism had higher scores on depression and internalizing symptoms on the Child Behavior Checklist compared to males.

There is inconsistency in the literature regarding risk of alcohol consumption depending on the sex of the ACA. Several research studies indicate that male offspring are at a greater risk of alcohol use compared to female offspring. Schumacher (1990) found that while ACA, regardless of sex, were at increased risk of alcohol consumption, this result was most salient for male offspring. Male ACAs reported an average consumption of 2.1 oz. of alcohol each day compared to female ACAs who reported an average consumption of 1.1 oz. This suggests that, on average, male ACAs reported drinking more than twice that of the general population (.94 oz.; Schumacer, 1990). Alterman, Cacciola, Mulvaney, Rutherford, and Langenbucher (2002) found that male offspring with a high family density of alcoholism (i.e. two first degree relatives or two second/third degree relatives) were at the greatest risk of alcoholism themselves. Pearson, D'Lima, and Kelley (2012) also found that male ACAs with two alcoholic parents were at the highest risk of problematic alcohol use. Another study found that while both male and female ACAs were at an increased risk for problematic alcohol use, males were at a particularly high risk when there was a history of maternal alcoholism (Weitzman &

Wechsler, 2000). Several studies suggest that female ACAs may be at a higher risk for alcohol use compared to male ACAs. Curran et al. (1998) found female ACAs were at greater risk of alcohol use disorders compared to male ACAs. LaBrie, Kenney, Lac, & Migliuri (2009) demonstrated that female college students with a family history of alcohol problems.

Other research suggests that both offspring are at risk for problematic alcohol use. Coeffelt et al. (2006) study showed that maternal alcoholism increases the risk of alcohol use in both male and female offspring. Another study found that paternal alcoholism was associated with male offspring alcohol use whereas both paternal and maternal alcoholism were associated with female offspring use (Crum & Harris, 1996). There is a lack of consensus on the relationship between parental alcoholism and ACA problem alcohol consumption and psychopathology, specifically as it relates to distinguishing between sex of the alcoholic parent and sex of the offspring. Future research is necessary to try and refine the equivocal literature.

Project Objectives

Analysis in both samples will rely on a 2 (gender) x 4 (maternal, paternal, both, or neither ACA status) x (internalized versus externalized aggregates) mixed group design. This design will allow the examination of associations between parental alcoholism and adult internalized (depression, anxiety, body image preoccupation, dispositional mindfulness, life satisfaction, and self-esteem; Table 1) and externalized (alcohol consumption/abuse, trait hostility, mood volatility, conduct disturbance prior to age 15, lifetime aggression, and arrest history; Table 2) indicators of maladjustment. A similar follow-up analysis using an independent sample of national respondents will attempt to replicate the college findings with the inclusion of several additional criterion measures. ACA status will be defined by paternal and/or maternal CAST scores of six or higher. A number of hypotheses will be tested: (1) CAST scores will be positively associated with symptom severity; (2) Combined maternal and paternal alcoholism will be associated with the most severe maladjustment compared to ACAs from a single parent and/or non-ACAs; (3) Male ACAs will exhibit relatively more externalized symptoms than internalized symptoms and female ACAs will exhibit relatively more internalized symptoms than externalized symptoms (gender x symptom cluster interaction); (4) Paternal alcoholism will be more strongly associated with externalized symptoms as opposed to internalized symptomatology, particularly among male ACAs and maternal alcoholism will be more strongly associated with internalized symptoms as opposed to externalized symptoms, particularly among female ACAs (gender x ACA status x symptom cluster interaction).

Analytic Strategy

Bivariate correlation analyses will be used in both samples to quantify the extent to which dimensional CAST scores are associated with each measures of adult maladjustment. An omnibus Multiple Analysis of Variance will be conducted followed by post-hoc ANOVAs employing a 2 (gender) x 4 (maternal, paternal, both, or neither ACA status) x (internalized versus externalized aggregates). An aggregate internalized and externalized score will be calculated for each participant using a standard score average. Internalized and externalized aggregate scores will be used as a within group factor to test hypotheses regarding differential impacts of ACA and/or gender. ACA status may have to be restricted to a dichotomous factor (ACA versus controls) in the

national sample if all eight cells cannot be populated with a minimum of 15 respondents. Relative risk analyses also attempted to estimate some practical implications of ACA status on several maladjustment risk factors.

CHAPTER II

METHODS

Participants and Procedure

Archival College Sample.

This sample (N = 2, 531) consists of college undergraduates who volunteered for extra credit toward a psychology course. Participants used the web platform SONA Systems to access the Qualtrics survey. A subset of initial respondents were excluded (n= 198) prior to analysis due to missing responses in the CAST questionnaire which was the focus of this study. This project was approved by the IRB and informed consent was collected from all participants. The results of this sample can be best generalized to college undergraduate (M_{age} = 20.11, SD = 4.06) men (24.0%) and women (76.0%). Ethnic diversity was limited in this Midwestern sample (Caucasian, 89.1%; African American, 2.5%; Asian, 2.1%; Native-American, 1.8%; Hispanic, 1.6%; Other, 3.1%). **National Sample.**

Amazon's Mechanical Turk (MTurk) was used to generate a national sample (N = 703). This sample varied in gender (58.5%, women; 41.5%, men), age ($M_{age} =$ 36.19, SD = 12.15) and ethnicity (White, 77.2%; Black, 8.0%; Hispanic, 5.3%; Asian, 6.0%; American Indian, 0.9%; & Multi-Racial, 1.9%). MTurk has been reviewed favorably as a crowdsourcing research platform (Buhrmester, Kwang, & Gosling, 2011; Gosling, Vazire, Srivastava, & John, 2004; Paolacci, Chandler, & Ipeirotis, 2010). A concern regarding this methodology has been the potential threat posed by server farms that rely on Virtual Private Servers (VPS) allowing individuals to disguise their origination and geolocation (Kennedy, Clifford, Burleigh, Waggoner, & Jewell, 2018).

Inclusion Criteria. The present MTurk sample was restricted to respondents who were at least 18 years of age, were located in the United States, had an HIT approval rate greater than 95%, and had completed at least 100 HITs.

Exclusion Criteria. Proxy/VPN detection software was used (https://iphub.info) to identify and exclude a subset of initial respondents who attempted to access the survey from outside of the United States or who were trying to disguise their international origin by using a VPS/VPN/Proxy (Burleigh, Kennedy, & Clifford, 2018). This protocol excludes respondents whose IP address is traced to a non-US location or is traced to a non-residential source, which suggests the respondent is likely using a VPS or proxy to mask their location and therefore inclusion criteria cannot be confirmed (Kennedy, Clifford, Burleigh, Jewell, & Waggoner, 2018). The protocol also flags, but does not exclude, respondents whose IP addresses are traced to a residential source, but the source has been reported as a potential VPS. These respondents are allowed to complete the survey, but some interpretive caution is warranted as there is uncertainty about whether a VPS is being used (Kennedy et al., 2018). With that said, given the limited research on the effectiveness of the proxy/VPN detection software, the protocol was adapted to minimize the risk of false positive exclusions by allowing MTurk workers flagged with IP addresses traced to non-residential sources (i.e., VPS/VPN/Proxy) to provisionally complete the survey. Respondents with IP addresses traced to non-US locations were still excluded from survey completion (n = 50).

Upon manually reviewing the origin of these non-residential IP addresses, all of the respondents who would have been kicked out by the original protocol were excluded from the final data set for either being traced back to an identified VPS server farm or

proxy website (n = 60). There was also a subset of respondents who were flagged as possible VPS usage and completed the survey who were traced back to server farms or proxy websites and were excluded from the final data set (n = 8). Additional precautions were taken to exclude respondents who failed an open-ended response question (n = 4), instructional manipulation check (n = 1), or whose IP address identified them as having both a duplicate IP address and geolocation (n = 22). Since IP addresses can only originate from one router, there is no way of confirming whether these respondents are individuals within the same household/organization or if they are the same individual completing the survey more than once (Ahler, Roush, & Sood, 2019).

Measures

An attempt was made to select criterion measures that were with literature definitions of either internalized or externalized symptoms of maladjustment. Two initial clusters were assembled with the intention of verifying whether or not the collective criterion measures could be meaningfully differentiated into internalized versus externalized symptom clusters. A preliminary verification of sample adequacy was conducted, Kaiser-Meyer Olkin = 0.782; Bartlett's Test of Sphericity, $\chi 2$ (91) = 4239.51, p < 0.001. This was followed by a factor analysis of the 12 maladjustment indicators (Eigenvalue > 1; factor loadings > .40; pairwise exclusions for missing data) using a Varimax rotation that forced the extraction of two principle components. An internalized maladjustment factor was extracted ($\alpha = .70$; 21.04%) successfully using 6 of the indicators (DEPR, ANX, DIAG, TXS, FAT, LSI). A weak externalized maladjustment factor ($\alpha = .18$; 14.69%) arose from six of the seven remaining indicators (KAT, BPAQ,

VOL, NARC, ANTI & MIND). Table 1 illustrates the factor loadings for a two-factor solution. Conduct disturbance (COND) failed to load sufficiently on either dimension.

Anxiety Symptoms (ANX)

A 13-item, customized survey was used in the college sample to measure anxiety symptoms using the DSM-5 criteria for panic disorder. Each of the symptoms were scored on a 5-point Likert scale ranging from 0 (Not Present) to 4 (Present Daily with Significant Distress). A total score was generated from the sum of these items.

Buss-Perry Aggression Questionnaire (BPAQ)

The Buss-Perry Aggression Questionnaire (BPAQ) is 29-item, self-report instrument designed to assess physical aggression, verbal aggression, trait anger, and trait hostility. Reliability has been established with scores ranging from .72-.89 for the subscales (Buss & Perry, 1992). Several studies have linked BPAQ scores to aggressive, angry, and bullying behavior (Archer & Webb, 2006; Gerevich, Bacskai & Czobor, 2007; Palmer & Thakordas, 2005).

Children of Alcoholics Screening Test (CAST)

A 30-item, self-report assessment tool developed to identify individuals who were raised by at least one alcoholic parent (Jones, 1983). The individual completes the assessment for both the mother and the father answering questions such as: *did you ever wish that a parent would quit drinking* and *do you ever resent a parent's drinking*? Respondents answer in the affirmative and leave the question blank if not applicable. Scores range from 0 to 30, with scores of six and above indicating an alcohol abusing parent. Several studies have demonstrated well-established reliability and validity for the use of the CAST in research settings (Charland & Cote, 1998; Clair & Genest, 1992; Dinning & Berk, 1989; Sheridan, 1995; Roosa, Sandler, Beals, & Short, 1988).

Conduct Disorder (COND)

Using a customized survey to measure the DSM-5 criteria for Conduct Disorder (COND), a history of CD symptoms prior to age 15 will be assessed. Respondents answer questions such as *have you ever started physical fights at school* and *have you ever deliberately destroyed others' property* by selecting either (a) no, (b) yes, before age 15, or (c) yes, at or after age 15. Each of the 15 symptoms will be scored as 0 or 1 with a total score generated from the sum.

Depression Symptoms (DEP)

A 12-item, customized survey was used in the college sample to measure depression symptoms using the DSM-5 criteria for major depressive disorder. Each of the symptoms were scored on a 5-point Likert scale ranging from 0 (Not Present) to 4 (Present Daily with Significant Distress). A total score was generated from the sum of these items.

Goldfarb Fear of Fat Scale (FAT)

The Goldfarb Fear of Fat Scale (GFFS) is a 10-item, self-report measure assessing fear of weight gain (Goldfarb, Dykens, & Gerrard, 1985). The items are scored using a 4point Likert scale ranging from 1 (very untrue) to 4 (very true) with higher scores suggesting greater fear of gaining weight. Reliability and validity have been widely established (Anderson, Williamson, Duchmann, Gleaves, & Barbin, 1999; Cook, et al., 2013; Goldfarb, Dykens, & Gerrard, 1985; Lewis, Cash, Jacobi, & Bubb-Lewis, 1997; Morrison & O'Connor, 1999; Osman, Chiros, Guiterrez, Kopper, & Barrios, 2001; Rushford, 2006).

Hypomanic Personality Scale – Mood Volatility Factor (VOL)

The Mood Volatility factor of the Hypomanic Personality Scale provides an estimate of affective, behavioral, and/or cognitive instability of the respondent (Eckbald & Chapman, 1986). The items are scored using a dichotomous format (T/F) with scores ranging from 0 to 15. Extensive reliability and validation have been demonstrated (Eckbald & Chapman, 1986; Schalet, Durbin, & Revelle, 2011; Stanton et al., 2017; Walsh, DeGeorge, Barrantes-Vidal, & Kwapil, 2015).

Khavari Alcohol Test (KAT)

The Khavari Alcohol Test (KAT) is a self-report instrument estimating the quantity and frequency of both typical alcohol consumption and instances of heavy alcohol consumption. Using 12 oz. of beer, 6 oz. of wine, and one 2 oz. shot of liquor as a single drink estimate, respondents answer the quantity of alcohol consumption questions *how many do you usually consume when drinking* and *what is the most drinks you usually consume when drinking* and *what is the most drinks you usually consume when drinking*? Using the following frequency index: daily, 3-4 times per week, twice a week, once a week, 3-4 times a month, twice a month, once a month, 3-4 times a year, twice a year, or not currently drinking, respondents provide answers to the frequency of alcohol consumption questions *how often do you usually drink alcohol* and *how often do you consume this "most" amount*? This measure represents an abbreviated various of the original KAT (Khavari & Farber, 1978).

Levenson Self Report Psychopathy Scale (ANTI)

The Levenson Self-Report Psychopathy Scale has become a widely used brief self-report index of psychopathic tendencies (Levenson, Kiehl, & Fitzpatrick,

1995). Recent factor analytic analyses summarize convergent and discriminant validity for this measurement index that reflects some of the content area intended for the PCL-R (Salekin, Chen, Sellbom, Lester, & MacDougall, 2014).

Michigan Alcoholism Screening Test (MAST)

The MAST is a 25-item, self-report instrument for screening alcoholism risk (Selzer, 1971). The instrument consists of yes/no questions such as: *have you gotten into fights while drinking? have you ever neglected your obligations, your family, or your work for two or more days in a row because you were drinking?* According to Selzer (1971) ratings of 0-3 points suggests no alcoholism risk, four points suggests questionable alcoholism risk, and 5+ points suggests considerable alcoholism risk. Several studies have identified the MAST as an appropriate screening measure for identifying problematic drinking and alcoholism with well-established reliability and validity (Minnich, Erford, Bardhoshi, & Ataley, 2018; Teitelbaum & Carey, 2000; Zung, 1982).

Mindfulness Attention Awareness Scale (MIND)

The Mindfulness Attention Awareness Scale is a 15-item, self-report measure used to estimate the extent to which a respondent is unaware of what is occurring in the present moment (Brown & Ryan, 2003). The items are scored using a 6-point Likert scale ranging from 1 (almost always) to 6 (almost never), with higher scores indicating a greater level of mindfulness. Reliability and validity is well-established in both college and community populations (Brown & Ryan, 2003; McKillop & Anderson, 2007).

Narcissistic Personality Inventory (NPI)

The Narcissistic Personality Inventory is a widely used brief index of narcissistic personality attributes (Raskin & Terry, 1988). Recent psychometric analyses contribute to growing support for the reliability and validity of this instrument for use in a wide range of clinical and nonclinical samples (Hasanvand, Javanmard, & Goodarzi, 2015).

Personality Inventory for DSM-5 – Depressivity and Anxiousness Domains (PID-5)

The Personality Inventory for DSM-5 (PID-5) is a 220-item questionnaire measuring personality trait facet scales that contribute to five primary personality domains (i.e., antagonism, detachment, psychoticism, disinhibition, negative affectivity; Krueger Derringer, Markon, Watson, & Skodol, 2012). The items are scored using a 4point Likert format ranging from 0 (Very False or Often False) to 3 (Very True or Often True). Adequate reliability and validity have been established for the measure (Quilty, Ayearst, Chmielewski, Pollock, & Bagby, 2013; Russell, 2016; Anderson et al., 2013; Hopwood, Schade, Krueger, Wright, & Markon, 2012; Wright & Simms, 2014). For the purposes of this study, we used the depressivity and anxiousness facets to assess depression and anxiety symptoms.

Psychiatric Diagnostic History (DIAG)

A history of psychiatric diagnoses will be estimated by asking respondents: *have you been diagnosed with any of the following mental health conditions (leave blank if answer is no or is not applicable)*? Respondents provide estimates for attention-deficit hyperactivity disorder, depression, bipolar disorder, borderline personality disorder, posttraumatic stress disorder, obsessive-compulsive disorder, panic attacks, and schizophrenia.

Psychiatric Treatment History (TXS)

Psychiatric treatment histories were estimated from affirmative responses to a customized question: *Have you been prescribed any of the following types of psychiatric medication (leave bubble blank if answer is no or not applicable)?* Options include antidepressants, mood stabilizing drug (for bipolar disorder), electroconvulsive trial, anti-anxiety medication, stimulant (for ADHD), and/or anti-psychotics. Past treatment with counseling/ psychotherapy, and/or psychiatric hospitalization are also included in the list.

Satisfaction with Life Scale (LSI)

The Satisfaction with Life Scale is a brief, 5-item measure of one's life satisfaction up until the day of testing (Diener, Emmons, Larsen, & Griffin, 1985). The items are scored using a 7-point Likert scale from 1 (strongly disagree) to 7 (strongly agree). Satisfactory reliability and validity have been demonstrated (Adler & Fagley, 2005; Deiner, Emmons, Larsen, & Griffin, 1985; Pavot, Diener, Colvin, & Sandvik, 1991; Pavot & Diener, 1993; Steger, Frazier, Oishi, & Kaler, 2006).

Aggregate Score – Internalized (INT)

An aggregate score was calculated as a mean standard score for the six internalized symptom indicators assessed in the present study (i.e., LSI, DEP, ANX, DIAG, TXS, and FAT).

Aggregate Score – Externalized (EXT)

An aggregate score was calculated as a mean standard score for the six externalized symptom indicators assessed in the present study (i.e., BPAQ, NPI, ANTI, KAT, MIND, and VOL).

CHAPTER III

RESULTS

Descriptive Statistics

Descriptive statistics for the college and national samples are presented in Tables 2 and 3 respectively. Gender differences in the maladjustment indicators were common with women and men tending to score higher respectively on the internalized and externalized maladjustment indicators. Table 4 presents the CAST distributions for maternal, paternal, and parental alcoholism symptoms. The prevalence of CAST-defined (> 5) paternal and maternal alcoholism varied within the college (12.8% & 8.1%) and national (32.5% & 20.2%) samples.

Bivariate Correlation Analyses

Bivariate CAST score associations with the internalized (Table 5) and externalized (Table 6) maladjustment indicators ranged from small (r = .05) to medium (r = .44) in effect size. Associations were pervasive across almost all of the internalized indicators in both samples. Externalized links were largely restricted to trait aggression, mood volatility, and dispositional mindfulness.

Gender differences in correlation strength were found for selected internalized maladjustment indices. Parental drinking was more closely associated with mental health diagnostic history for women than men in the college sample. The relationship between maternal alcoholism and a number of symptom indicators (depression, anxiety, and both diagnostic and treatment history) was stronger for the men in the national sample.

Gender differences in correlation strength were more limited for the externalized maladjustment indicators. Maternal drinking was more strongly associated with alcohol

intake, antisocial attributes, and dispositional mindfulness for the men in the national sample. The link between alcohol intake and paternal drinking was stronger for the men in the college sample. Trait aggression associations with maternal drinking was stronger for the women in the college sample.

Multivariate Analysis of Variance

Independent 2 (gender) x 4 (ACA status) MANOVAs were conducted for the internalized dependent measure cluster within the two samples. MANOVAs were not conducted for the externalized cluster since those maladjustment indicators were not found to be internally consistent. Significant gender, F(7, 1718) = 6.52, p < .000, Pillai's Trace = .026 (η_p^2 = .026), and ACA status, F(21, 5160) = 4.027, p < .000, Pillai's Trace = .013 (η_p^2 = .016), main effects were found within the college sample. The gender by ACA interaction was not significant gender, F(6, 637) = 6.79, p < .000, Pillai's Trace = .060 (η_p^2 = .060), and ACA status, F(18, 1917) = 7.32, p < .000, Pillai's Trace = .193 (η_p^2 = .064), main effects were found within the national sample. The gender by ACA interaction was not significant, F(18, 1917) = 1.27, p = .198, Pillai's Trace = .035 (η_p^2 = .012).

Analyses of Variance

Subsequent ANOVAs for the internalized measures (Table 7) indicated a significant interaction for ACA status and mental health treatment history in both samples. Female and male ACAs, regardless of status, reported significantly more treatment history compared to non-ACAs in both samples (Tables 8 and 9). Male ACAs with two alcoholic parents in the national sample also reported more treatment history compared to single parent ACAs. There were significant main effects for ACA status on

almost all other internalized maladjustment indicators in both samples (Table 7). Subsequent Scheffe post-hoc comparisons found significant differences between ACA status and a number of internalized symptom indicators (Tables 8 and 9). There were also significant main effects for gender on almost all internalized measures in both samples. Subsequent Scheffe post-hoc comparisons found females reported significantly higher anxiety and body image preoccupation in both samples and significantly higher depression and diagnostic history in the college sample. No other significant gender effects were observed.

The externalized ANOVAs (Table 7) indicated a significant interaction for alcohol intake in the college sample. Male ACAs with paternal alcoholism reported more alcohol intake compared to males with maternal alcoholism or non-ACAs. No significant differences for alcohol intake were observed for females. There were significant main effects for several of the other externalized maladjustment indicators (Table 7). Subsequent Scheffe post-hoc comparisons found significant differences between ACA status and trait aggression, mood volatility, antisocial personality traits and dispositional mindfulness between both samples (Tables 8 and 9). There were also significant main effects for gender on almost all externalized measures in both samples. Males reported significantly higher alcohol intake, antisocial and narcissistic personality traits compared to females in both samples and significantly higher aggression in the national sample. No other significant gender effects were observed.

Relative Risk Analyses

Relative risk analyses were conducted for eight maladjustment risk factors: diagnostic history, treatment history, conduct disturbance, drug use, suicide attempts,

alcoholism, and alcohol-related arrests (Table 11). Non-ACAs were used as the unexposed group in all analyses. In both samples, ACAs were found to be at greater risk for nearly all maladjustment risk factors, regardless of ACA classification (Table 11).

CHAPTER IV

DISCUSSION

There is an inconsistency in the literature related to the relationship between differential gender effects of sex of the alcoholic parent and sex of the ACA related to various internalized and externalized maladjustment risk factors, which highlights an important direction for future research. One of the main goals of the present study was to examine how these differential gender effects may relate to offspring risk of maladjustment. In order to achieve this aim, we improved upon previous literature by employing a 2 (gender) x 4 (neither, maternal, paternal, or both ACA status) design to examine not only how gender of the alcoholic parent and/or ACA relate to maladjustment risk, but also examining the effect of family density of alcoholism on maladjustment risk (i.e., one alcoholic parent vs. two alcoholic parents). Another main goal of the present study was to replicate college sample findings with a national sample collected via Amazon's MTurk.

Overall, consistent with previous literature, our results from both samples indicated ACAs appear to be at increased risk of both internalized and externalized forms of maladjustment compared to non-ACAs. More specific hypotheses were tested to evaluate specific differential gender and ACA status effects: (1) CAST scores will be positively associated with symptom severity; (2) Combined maternal and paternal alcoholism will be associated with the most severe maladjustment compared to ACAs from a single alcoholic parent or non-ACAs; (3) Male ACAs will exhibit relatively more externalized symptoms and female ACAs will exhibit relatively more internalized symptoms; (4) Paternal alcoholism will be more strongly associated with externalized

symptom (particularly for males), and maternal alcoholism will be more strongly associated with internalized symptoms (particularly for females). Relative risk analyses also attempted to estimate some practical implications of ACA status on several maladjustment risk factors.

CAST scores were predicted to be positively associated with symptom severity. This hypothesis was generally supported for the internalized symptoms for both samples. Our results suggest both men and women tended to experience greater internalized symptom severity as CAST scores increased, with a few exceptions. Parental drinking was more closely associated with mental health diagnostic history for women than men in the college sample. The relationship between maternal alcoholism and a number of symptom indicators (depression, anxiety, and both diagnostic and treatment history) was stronger for the men in the national sample. This hypothesis was partially supported for the externalized symptoms. The link between alcohol intake and paternal drinking was stronger for the men in the college sample. Our results indicated maternal drinking was more strongly associated with alcohol intake, antisocial attributes, and dispositional mindfulness for the men in the national sample. Trait aggression associations with maternal drinking was stronger for the women in the college sample.

Our second hypothesis predicted that combined maternal and paternal alcoholism would be associated with more severe maladjustment compared to single parent alcoholism. This hypothesis was partially supported. Both samples found ACAs with two alcoholic parents reported more severe internalized symptoms (depression, anxiety, treatment history, life satisfaction) compared to ACAs with paternal alcoholism alone. The national sample found ACAs with two alcoholic parents reported more antisocial

personality traits compared to single parent ACAs. No other significant differences were observed between dual and single parent alcoholism in either sample. A more prominent and consistent finding in our results is that ACAs, regardless of status (i.e., dual vs. single parent alcoholism), appear to be at increased risk of various internalized and externalized maladjustment compared to non-ACAs.

Our relative risk analyses provide further evidence of this. Both samples demonstrated that ACAs are at increased risk of nearly all maladjustment risk factors compared to non-ACAs. In both samples, parental alcoholism of any type increased an ACAs risk of nearly all maladjustment risk factors compared to non-ACAs with a few exceptions. Paternal and dual alcoholism did not increase an ACAs risk of alcohol-related arrests in the college sample. Paternal and/or dual alcoholism did not increase an ACAs risk of conduct disturbance, diagnostic history, or one suicide attempt in the national sample.

Our third hypothesis predicted male ACAs would exhibit more externalized symptoms and female ACAs would exhibit more internalized symptoms. This hypothesis was partially supported. Several main effects of gender for both samples found females scored significantly higher on nearly all of the internalized maladjustment indicators compared to males and males scored significantly higher on nearly all of the externalized maladjustment indicators. Further, bivariate correlations found parental drinking was more closely associated with psychiatric diagnostic history for women than men in the college sample. Paternal drinking and alcohol intake was stronger for men in the college sample. Maternal drinking was more strongly associated with alcohol intake, antisocial attributes, and dispositional mindfulness for the men in the national sample.

With that said, there are several bivariate correlations that do not support this hypothesis. Trait aggression associations with maternal drinking was stronger for the women in the college sample. The relationship between maternal alcoholism and a number of symptom indicators (depression, anxiety, and both diagnostic and treatment history) was stronger for the men in the national sample. While these results do not support our hypothesis, they are consistent with previous research demonstrating males with alcoholic mothers have reported higher levels of internalizing symptoms (e.g., Chen & Weitzman, 2005; Corte & Becherer, 2007). Overall, consistent with previous literature, we found mixed results regarding how ACA gender is related to their risk of developing various forms of internalized and externalized maladjustment.

Our final hypothesis predicted paternal alcoholism would be more strongly associated with externalized symptoms, particularly for male ACAs, and maternal alcoholism would be more strongly associated with internalized symptoms, particularly for female ACAs. This final hypothesis was adequately not supported. While the significant interaction effect for alcohol intake in the college sample found male ACAs with paternal alcoholism reported more alcohol intake compared to males with maternal alcoholism or non-ACAs, this was the only significant gender x ACA status interaction between both samples supporting this hypothesis. As previously stated, a more prominent and consistent finding is that ACAs, regardless of status appear to be at increased risk of various internalized and externalized compared to non-ACAs. Overall, the limited interaction effects observed in the present study restricted our examination of our last hypothesis. This limitation may be minimized in future studies using a similar 2 x 4 design by ensuring adequate and equal sample sizes across gender and ACA status.

Limitations and Future Directions

While most of our hypotheses were partially supported and our results are generally consistent with previous research, there were a few inconsistencies in findings across the college and national samples. The differences in findings between the college and national sample may be attributable to a number of factors. First, while the overall number of participants in each sample were greater than most ACA studies, analyzing ACA status as four independent classifications resulted in unequal cell sizes between groups. It is important to note that unequal sample sizes can reduce statistical power and inflate Type I error rates, which may explain some of the differences observed (Rusticus & Lovato, 2014). Second, research has demonstrated that ACAs are at greater risk of suffering from multiple ACEs (e.g., physical abuse, emotional abuse) compared to non-ACAs (e.g., Dube et al., 2001; Thompson, Alonzo, Grant, & Hasin, 2013). Other than exposure to parental alcoholism, the present study did not account for other forms of ACEs that may have resulted in greater risk of adult maladjustment. Additionally, other research has demonstrated that ACA maladjustment may be better attributed to a history of parental psychopathology, rather than parental alcoholism alone (McCauley Ohannessian et al., 2004; Preuss et al., 2002). Results of the present study can be further clarified by measuring parental alcoholism, various forms of ACEs, and parental psychopathology. Future research in this area should focus on the contributions and strengths of all aforementioned factors in maladjustment. Third, while an internalized maladjustment factor was successfully extracted (a = .70; 21.04%), the extracted externalized maladjustment factor was relatively weak (a = .18; 14.69%), suggesting the measures used to evaluate externalized indicators of maladjustment may not have been

sufficient to find notable differences between groups. Finally, the college and national samples lacked equivalence in several ways. The college sample consisted of undergraduate students from one Midwestern university, which may limit the generalizability of the findings to a subset of college undergraduates. In comparison, the national sample was more heterogeneous in terms of age, gender, and ethnic diversity and may be more representative of and generalizable to the general population. Finally, different depression and anxiety scales were used for the national sample in hope of using more psychometrically robust measures than the measures used in the college sample.

Conclusions

To the author's knowledge, the present study was the first to employ a 2 (gender) x 4 (ACA status) design to examine ACAs risk of various maladjustment indicators while taking into account both differential gender effects of both the parent and ACA and various levels of ACA status (i.e., neither, mom, dad, or both alcoholics). While our gender x ACA status interactions were limited, it is evident from our results that treating ACA status as a dichotomous factor may indvertently restrict our understanding of how differences in parental alcoholism (i.e., maternal vs. paternal or dual vs. single parent) may influence an ACAs risk of various internalized and externalized forms of maladjustment, which highlights a salient direction for future research. In the present study, some nuanced differences were observed between the samples, which may be explained by confounding sources not examined in the present study as previously described; however, our results were generally consistent with previous literature. Future research should take into account not only differential gender effects of both ACA and alcoholic parent, but also other potential sources of maladjustment risk factors to help

draw more definitive conclusions about the relationship between parental alcoholism and its effect on adult children of alcoholics.

APPENDICES

Appendix A

| Maladjustment Indicators | LABEL | Factor1 | Factor 2 |
|-----------------------------|-------|--------------|--------------|
| - | | Internalized | Externalized |
| Depression Symptoms | DEPR | .762 | .100 |
| Anxiety Symptoms | ANX | .727 | .174 |
| Diagnostic History | DIAG | .445 | 008 |
| Treatment History | TXS | .590 | 012 |
| Fear of Negative Evaluation | FNE | .551 | 044 |
| Fear of Fat Scale | FAT | .444 | .154 |
| Life Satisfaction | LSI | .533 | .203 |
| Alcohol Consumption | KAT | 106 | .426 |
| Trait Aggression | BPAQ | .236 | .413 |
| Mood Volatility | VOL | .293 | .555 |
| Narcissistic Traits | NARC | 358 | .587 |
| Antisocial Traits | ANTI | .074 | .740 |
| Dispositional Mindfulness | MIND | 388 | 574 |
| Conduct Disturbance | COND | .236 | .261 |

Table 1. Factor Loading Contrasts in a Two-Factor Internalized-Externalized Solution

Note. Varimax rotation forcing a two-factor solution; Eigenvalue > 1; factor loadings > .4; pairwise exclusions for missing data.

Appendix B

| Predictor & Criterion | | Women | Men | | | | Ge | nder | | | |
|---------------------------------------|----------|------------|----------|-----------|-------|--------|-----|------|--|--|--|
| Variables | Label | п | п | M | SD | Range | р | d | | | |
| Maternal Alcoholism | CAST | 1920 | 606 | 1.33 | 4.28 | 0-28 | ** | .137 | | | |
| Paternal Alcoholism | CAST | 1920 | 606 | 2.07 | 5.08 | 0-28 | *** | .197 | | | |
| Parental Alcoholism | CASTT | 1920 | 606 | 1.70 | 3.72 | 0-28 | *** | .212 | | | |
| Internalized Maladjustment Indicators | | | | | | | | | | | |
| Depression Symptoms | DEP | 1785 | 550 | 7.48 | 8.77 | 0-48 | *** | .235 | | | |
| Anxiety Symptoms | ANX | 1712 | 514 | 7.19 | 9.68 | 0-52 | *** | .386 | | | |
| Diagnostic History | DIAG | 2041 | 643 | .294 | .735 | 0-8 | *** | .175 | | | |
| Treatment History | TXS | 2041 | 643 | .560 | 1.19 | 0-8 | *** | .131 | | | |
| Fear of Negative | FNE | 1764 | 545 | 15.78 | 7.71 | 0-29 | *** | .344 | | | |
| Fear of Fat Scale | FAT | 1833 | 568 | 8.30 | 7.08 | 0-30 | *** | .528 | | | |
| Life Satisfaction | LSI | 1857 | 578 | 19.96 | 6.44 | 0-30 | *** | .167 | | | |
| | External | ized Malac | ljustmei | nt Indica | ators | | | | | | |
| Alcohol Consumption | KAT | 1962 | 619 | .655 | 1.05 | 0-11.7 | *** | .408 | | | |
| Trait Aggression | BPAQ | 1677 | 507 | 57.97 | 19.06 | 29-137 | *** | .226 | | | |
| Mood Volatility | НҮРО | 1821 | 563 | 6.28 | 3.70 | 0-15 | | | | | |
| Narcissistic Traits | NARC | 1805 | 563 | 44.60 | 10.21 | 16-80 | *** | .406 | | | |
| Antisocial Traits | ANTI | 1742 | 537 | 63.95 | 12.35 | 25-125 | *** | .408 | | | |
| Dispositional | MIND | 1796 | 552 | 39.95 | 14.79 | 15-90 | | | | | |
| Mindfulness | | | | | | | | | | | |

Table 2. Descriptive Statistics for Predictor and Criterion Variables in the College Sample

Note. * *p* < .05. ** *p* < .01. *** *p* < .001.

Appendix C

| Table 3. Descriptive Statistics for Predictor and Criterion Variables in the Nationa | ıl |
|--|----|
| Sample | |

| Predictors & | | Women | Men | | | | Ge | nder | | | | | |
|------------------------------|---------------------------------------|-----------|---------|-----------|-------|--------|-----|------|--|--|--|--|--|
| Criterion | Label | п | п | M | SD | Range | р | d | | | | | |
| Maternal Alcoholism | CASTM | 411 | 292 | 3.53 | 6.84 | 0-28 | | | | | | | |
| Paternal Alcoholism | CASTD | 411 | 292 | 5.27 | 7.53 | 0-28 | | | | | | | |
| Parental Alcoholism | CASTT | 411 | 292 | 4.40 | 5.66 | 0-28 | | | | | | | |
| | Internalized Maladjustment Indicators | | | | | | | | | | | | |
| Depression Symptoms | DEP | 411 | 292 | 22.90 | 10.77 | 2-56 | | | | | | | |
| Anxiety Symptoms | ANX | 411 | 290 | 20.28 | 6.89 | 9-36 | ** | .243 | | | | | |
| Diagnostic History | DIAG | 411 | 292 | 0.75 | 1.45 | 0-8 | ** | .232 | | | | | |
| Treatment History | TXS | 401 | 285 | 1.53 | 2.17 | 0-8 | | | | | | | |
| Fear of Fat Scale | FAT | 395 | 275 | 9.63 | 7.23 | 0-30 | *** | .379 | | | | | |
| Life Satisfaction | LSI | 407 | 289 | 17.45 | 8.07 | 0-30 | * | .157 | | | | | |
| | External | ized Mala | djustme | ent Indic | ators | | | | | | | | |
| Alcohol Consumption | KAT | 408 | 290 | .85 | 1.70 | 29 | *** | .407 | | | | | |
| Trait Aggression | BPAQ | 361 | 248 | 70.63 | 22.10 | 29-131 | *** | .340 | | | | | |
| Mood Volatility | НҮРО | 411 | 292 | 5.63 | 3.96 | 0-15 | | | | | | | |
| Narcissistic Traits | NARC | 386 | 277 | 42.12 | 12.78 | 16-75 | ** | .256 | | | | | |
| Antisocial Traits | ANTI | 364 | 261 | 63.73 | 13.87 | 25-125 | ** | .253 | | | | | |
| Dispositional Mindfulness | MIND | 396 | 274 | 36.29 | 16.75 | 15-84 | | | | | | | |

Note. * *p* < .05. ** *p* < .01. *** *p* < .001.

Appendix D

| | Colleg | ge Sample (N | V = 2531) | National Sample ($N = 703$) | | | | | |
|-------|--------|--------------|-----------|-------------------------------|-------|-------|--|--|--|
| Score | CASTD | CASTM | CASTT | CASTD | CASTM | CASTT | | | |
| 0 | 73.8% | 83.3% | 67.6% | 52.6% | 65.6% | 41.1% | | | |
| 1 | 5.5% | 3.9% | 2.7% | 4.0% | 5.5% | 2.3% | | | |
| 2 | 3.0% | 2.0% | 2.3% | 2.6% | 3.3% | 1.8% | | | |
| 3 | 2.0% | 1.2% | 1.3% | 4.1% | 3.0% | 1.8% | | | |
| 4 | 1.8% | 0.9% | 1.0% | 1.8% | 1.1% | 2.3% | | | |
| 5 | 1.1% | 0.6% | 1.3% | 2.4% | 1.3% | 1.4% | | | |
| 6 | 1.2% | 0.6% | 0.7% | 1.6% | 0.7% | 1.7% | | | |
| 7 | 0.9% | 0.8% | 0.9% | 1.7% | 0.7% | 3.0% | | | |
| 8 | 0.9% | 0.5% | 0.6% | 1.6% | 1.4% | 1.1% | | | |
| 9 | 0.9% | 0.5% | 0.6% | 1.6% | 0.7% | 2.0% | | | |
| 10 | 1.1% | 0.5% | 0.5% | 1.8% | 1.1% | 1.6% | | | |
| 11 | 0.8% | 0.4% | 0.3% | 1.3% | 0.7% | 1.6% | | | |
| 12 | 0.6% | 0.4% | 0.4% | 1.7% | 1.3% | 1.1% | | | |
| 13 | 0.7% | 0.5% | 0.4% | 1.8% | 1.0% | 0.9% | | | |
| 14 | 0.6% | 0.3% | 0.6% | 2.8% | 0.6% | 1.6% | | | |
| 15 | 0.5% | 0.4% | 0.0% | 2.3% | 1.3% | 0.9% | | | |

Table 4. Paternal, Maternal, and Parental CAST Alcoholism Distributions

Note. CASTD = Paternal CAST; CASTM = Maternal CAST; CASTT = Total CAST.

Appendix E

| | College | e Sample (n | = 2531) | Natior | al Sample (n | = 703) |
|---------------|----------|-------------|----------|----------|--------------|----------|
| Maladjustment | Paternal | Maternal | Parental | Paternal | Maternal | Parental |
| Indicators | CASTD | CASTM | CASTT | CASTD | CASTM | CASTT |
| Women | | | | | | |
| DEP | .159** | .156** | .198** | .248** | .186** | .291** |
| ANX | .144** | .165** | .194** | .160** | .089 | .169** |
| DIAG | .054* | .098** | .094** | .277** | .149** | .254** |
| TXS | .124** | .151** | .172** | .209** | .178** | .247** |
| FAT | .107** | .081** | .120** | .073 | .071 | .097 |
| LSI | .122** | .148** | .169** | 136** | 056 | 131** |
| Men | | | | | | |
| DEP | .101* | .177** | .167** | .272** | .330** | .354** |
| ANX | .079 | .141** | .132** | .248** | .292** | .318** |
| DIAG | 026 | 003 | 020 | .267** | .303** | .336** |
| TXS | .132** | .168** | .183** | .277** | .351** | .447** |
| FAT | .098* | .070 | .106* | .153* | .185** | .201** |
| LSI | .096* | .115** | .130** | 051 | 103 | 090 |

Table 5. Bivariate Correlation Matrix of CAST Scores and Internalized Maladjustment Indicators

Note. CASTD = Paternal Alcoholism CAST; CASTM = Maternal Alcoholism CAST; CASTT = Total Parental Alcoholism. DEP = depression symptoms; ANX = anxiety symptoms; DIAG = mental health diagnostic history; TXS = mental health treatment history; FAT = Fear of Fat Scale; LSI = Life Satisfaction Index; KAT = Khavari Alcohol Test; BPAQ = trait aggression; HYPO = Mood Volatility; NARC = narcissistic traits; ANTI = antisocial traits; MIND = dispositional mindfulness. *p < 05. **p < .01. ***p < .001. Shading designates significant gender difference in coefficient

Appendix F

| | College | Sample (N= | = 2531) | National Sample ($N = 703$) | | | |
|---------------|----------|------------|----------|-------------------------------|----------|----------|--|
| Maladjustment | Paternal | Maternal | Parental | Paternal | Maternal | Parental | |
| Indicators | CASTD | CASTM | CASTT | CASTD | CASTM | CASTT | |
| Women | | | | | | | |
| KAT | .020 | .021 | .025 | .022 | 039 | 009 | |
| BPAQ | .104** | .123** | .143** | .127* | .134* | .177** | |
| VOL | .100* | .094** | .122** | .206** | .120* | .221** | |
| NARC | .015 | .021 | .022 | 064 | 033 | 066 | |
| ANTI | .035 | .054* | .056* | .059 | .007 | .037 | |
| MIND | 083** | 088** | 107** | .189** | .153** | .229** | |
| Men | | | | | | | |
| KAT | .112** | .035 | .096* | .099 | .121* | .130* | |
| BPAQ | .045 | 001 | .032 | 002 | .063 | .034 | |
| VOL | .070 | .116** | .112** | .197** | .195** | .232** | |
| NARC | .025 | .065 | .053 | .040 | .074 | .067 | |
| ANTI | 028 | .063 | .016 | .129* | .235** | .213** | |
| MIND | 016 | 061 | 046 | .176** | .296** | .276** | |

Table 6. Bivariate Correlation Matrix of CAST Scores and Externalized Maladjustment Indicators

Note. CASTD = Paternal Alcoholism CAST; CASTM = Maternal Alcoholism CAST; CASTT = Total Parental Alcoholism. DEP = depression symptoms; ANX = anxiety symptoms; DIAG = mental health diagnostic history; TXS = mental health treatment history; FAT = Fear of Fat Scale; LSI = Life Satisfaction Index; KAT = Khavari Alcohol Test; BPAQ = trait aggression; HYPO = Mood Volatility; NARC = narcissistic traits; ANTI = antisocial traits; MIND = dispositional mindfulness. *p < 05. **p < .01. ***p < .001. Shading designates significant gender difference in coefficient strength.

Appendix G

| | | Colleg | e Sam | ole(N = | 2531) | | | Nationa | ıl Sam | ple ($N =$ | 703) | | |
|-------|---------------------------------------|--------|------------|--------------|----------|------------|--------|----------|------------|--------------|------|------------|--|
| | | ACA | | Gender x ACA | | | ACA | | | Gender x ACA | | | |
| | F | р | η_p^2 | F | р | η_p^2 | F | р | η_p^2 | F | р | η_p^2 | |
| | Internalized Maladjustment Indicators | | | | | | | | | | | | |
| DEPz | 15.63 | <.001 | .02 | .656 | .579 | .00 | 22.53 | <.001 | .08 | .401 | .752 | .00 | |
| ANXz | 11.29 | <.001 | .01 | 1.05 | .366 | .00 | 11.59 | <.001 | .04 | 1.44 | .228 | .00 | |
| DIAGz | 1.417 | .236 | .00 | 1.50 | .210 | .00 | 14.66 | <.001 | .06 | .419 | .740 | .00 | |
| TXSz | 22.84 | <.001 | .02 | 6.17 | <.001 | .00 | 32.89 | <.001 | .12 | 3.34 | <.05 | .01 | |
| FNEz | 1.82 | .140 | .00 | .587 | .623 | .00 | | | | | | | |
| FATz | 4.36 | <.01 | .00 | .146 | .932 | .00 | 6.44 | <.001 | .02 | .923 | .429 | .00 | |
| LSIz | 11.43 | <.001 | .01 | .570 | .635 | .00 | 4.73 | <.01 | .02 | 1.19 | .309 | .00 | |
| INTz | 17.73 | <.001 | .03 | .111 | .954 | .00 | 36.93 | <.001 | .13 | 2.05 | .104 | .00 | |
| | | | | Extern | alized I | Maladj | ustmen | t Indica | tors | | | | |
| KATz | 6.49 | <.001 | .00 | 5.61 | <.01 | .00 | .928 | .427 | .00 | 1.96 | .118 | .00 | |
| BPAQz | 4.16 | <.01 | .00 | 1.81 | .142 | .00 | 1.55 | .198 | .00 | .501 | .682 | .00 | |
| VOLz | 7.47 | <.001 | .01 | .196 | .899 | .00 | 8.19 | <.001 | .03 | .056 | .983 | .00 | |
| NARCz | 1.10 | .345 | .00 | .790 | .499 | .00 | 1.45 | .225 | .00 | .327 | .806 | .00 | |
| ANTIz | 1.94 | .120 | .00 | .299 | .826 | .00 | 7.85 | <.001 | .03 | 2.55 | .055 | .01 | |
| MINDz | 2.65 | <.05 | .00 | .917 | .432 | .00 | 11.83 | <.001 | .05 | 2.00 | .113 | .00 | |
| EXTz | 9.21 | <.001 | .01 | .461 | .709 | .00 | 10.45 | <.001 | .04 | 1.28 | .279 | .00 | |

Table 7. Parental Alcoholism and Gender Interaction Analyses of Variance

Note. Significant effects bolded. Standard *z* scores were used in the analyses of these maladjustment indicators. DEP = depression symptoms; ANX = anxiety symptoms; DIAG = mental health diagnostic history; TXS = mental health treatment history; FNE = Fear of Negative Evaluation; FAT = Fear of Fat Scale; LSI = Life Satisfaction Index; KAT = Khavari Alcohol Test; BPAQ = trait aggression; HYPO = Mood Volatility; NARC = narcissistic traits; ANTI = antisocial traits; MIND = dispositional mindfulness.

Appendix H

| | Dual | | | | aternal | | | aternal | | . 1 | No | | |
|---------------|-------------------|---------------------------------------|----|-------------------|-----------|--------|-------------------|----------|-------|------------------|-------|------|--|
| a :. : | Alc | oholisn | 1 | Alcoholism | | | Alcoholism | | | Alcoholism | | | |
| Criterion | CA | STD > 1 | 5 | CA | CASTD > 5 | | CA | STD < | 6 | CA | STD < | 6 | |
| Indices | CAS | STM > | 5 | CAS | STM < | 6 | CAS | STM > | 5 | CA | STM < | 6 | |
| | М | SE | n | М | SE | n | М | SE | п | М | SE | n | |
| | | Internalized Maladjustment Indicators | | | | | | | | | | | |
| DEPz | .620 ^d | .142 | 73 | .145° | .096 | 213 | .338 ^b | .115 | 108 | 132 ^a | .026 | 1865 | |
| ANXz | .489 ^d | .146 | 68 | .606° | .095 | 210 | .262 ^b | .115 | 107 | 159ª | .027 | 1771 | |
| DIAGz | .171 | .139 | 81 | 084 | .091 | 244 | .078 | .111 | 126 | 063 | .025 | 2075 | |
| TXSz | .907 ^d | .137 | 81 | .071° | .090 | 244 | .345 ^b | .110 | 126 | 105ª | .025 | 2075 | |
| FNEz | 130 | .147 | 71 | .052 | .094 | 217 | .083 | .114 | 112 | 115 | .027 | 1834 | |
| FATz | .269° | .144 | 76 | .026 ^b | .093 | 224 | 028 | .112 | 115 | 165ª | .026 | 1908 | |
| LSIz | 522° | .139 | 77 | 195 | .093 | 232 | 484 ^b | .113 | 114 | .012ª | .026 | 1930 | |
| INTz | .419 ^d | .097 | 56 | .073° | .063 | 160 | .241 ^b | .075 | 80 | 111ª | .018 | 1436 | |
| | | | | Exter | nalized | l Mala | djustmer | nt Indic | ators | | | | |
| KATz | .195 | .140 | 78 | .501 | .089 | 236 | .122 | .111 | 120 | .093 | .025 | 1993 | |
| BPAQz | .308° | .149 | 67 | .248 | .095 | 208 | .309 ^b | .126 | 102 | .022ª | .028 | 1716 | |
| VOLz | .433° | .140 | 78 | .140 | .096 | 224 | .330 ^b | .117 | 112 | 044 ^a | .026 | 1891 | |
| NARCz | .304 | .143 | 72 | .076 | .094 | 223 | .230 | .115 | 111 | .096 | .026 | 1883 | |
| ANTIz | .315 | .140 | 72 | .047 | .096 | 214 | .301 | .113 | 111 | .093 | .027 | 1806 | |
| MINDz | .266 ^b | .143 | 75 | .092 | .096 | 218 | .174 | .114 | 115 | 030 ^a | .027 | 1862 | |
| EXTz | .284° | .072 | 81 | .174 | .047 | 243 | .219 ^b | .057 | 126 | .034ª | .013 | 2071 | |

 Table 8. Parental Alcoholism Maladjustment Group Differences in College Sample

Note. Scheffe post-hoc cell differences (p < .05) designated by superscript letters that differ. Standard *z* scores were used in the analyses of these maladjustment indicators. DEP = depression symptoms; ANX = anxiety symptoms; DIAG = mental health diagnostic history; TXS = mental health treatment history; FNE = Fear of Negative Evaluation; FAT = Fear of Fat Scale; LSI = Life Satisfaction Index; KAT = Khavari Alcohol Test; BPAQ = trait aggression; HYPO = Mood Volatility; NARC = narcissistic traits; ANTI = antisocial traits; MIND = dispositional mindfulness.

Appendix I

| Criterion Indices | | Dual oholisn | 1 | | Paternal Alcoholism | | Maternal Alcoholism | | No Alcoholism | | | |
|----------------------|---------------------------------------|-----------------|----|-------------------|------------------------|-------|------------------------|----------|------------------|------------------|-------|-----|
| malees | CA | STD > 3 | 5 | CA | STD > 1 | 5 | CA | STD < 0 | 6 | CA | STD < | 6 |
| | CAS | STM > | 5 | CA | STM < | 6 | CAS | STM > | 5 | CAS | STM < | 6 |
| | М | SE | п | М | SE | п | М | SE | п | М | SE | n |
| | Internalized Maladjustment Indicators | | | | | | | | | | | |
| DEPz | .621 ^d | .110 | 76 | .155° | .085 | 153 | .374 ^b | .124 | 66 | 228ª | .048 | 408 |
| ANXz | .380 ^d | .111 | 76 | .098° | .086 | 153 | .273 ^b | .125 | 66 | 204ª | .048 | 406 |
| DIAGz | .445 ^d | .111 | 76 | .191° | .086 | 153 | .184 ^b | .125 | 66 | 222ª | .048 | 408 |
| TXSz | .844 ^d | .108 | 74 | .144° | .083 | 150 | .270 ^b | .125 | 63 | 259ª | .047 | 399 |
| FATz | .395 ^b | .115 | 72 | 056 | .087 | 150 | .093 | .128 | 64 | 137 ^a | .050 | 385 |
| LSIz | 022 | .114 | 75 | 157° | .088 | 152 | 327 ^b | .127 | 66 | .104ª | .049 | 403 |
| INTz | .437 ^d | .055 | 76 | .062° | .043 | 153 | .142 ^b | .062 | 66 | 155 ^a | .024 | 408 |
| | | | | Exteri | nalized | Malad | ljustmen | t Indica | ntors | | | |
| KATz | .125 | .113 | 75 | .135 | .087 | 153 | .003 | .127 | 65 | 007 | .049 | 405 |
| BPAQz | .259 | .120 | 68 | 036 | .093 | 137 | .079 | .135 | 61 | 004 | .053 | 355 |
| VOLz | .396° | .113 | 76 | .167 ^b | .087 | 153 | .125 | .127 | 66 | 136ª | .049 | 408 |
| NARCz | .192 | .117 | 72 | 055 | .090 | 146 | 134 | .134 | 61 | .043 | .051 | 387 |
| ANTIz | .516 ^b | .116 | 71 | 166 | .092 | 137 | 077 | .133 | 58 | 023ª | .052 | 359 |
| MINDz | .464 ^d | .114 | 73 | .062° | .087 | 149 | .258 ^b | .132 | 61 | 192ª | .049 | 388 |
| EXTz | .308 ^b | .059 | 76 | .022 | .046 | 153 | .041 | .067 | 66 | 052ª | .026 | 408 |

Table 9. Parental Alcoholism Maladjustment Group Differences in National Sample

Note. Scheffe post-hoc cell differences (p < .05) designated by superscript letters that differ. Standard *z* scores were used in the analyses of these maladjustment indicators. DEP = depression symptoms; ANX = anxiety symptoms; DIAG = mental health diagnostic history; TXS = mental health treatment history; FAT = Fear of Fat Scale; LSI = Life Satisfaction Index; KAT = Khavari Alcohol Test; BPAQ = trait aggression; HYPO = Mood Volatility; NARC = narcissistic traits; ANTI = antisocial traits; MIND = dispositional mindfulness.

Appendix J

| | Paternal | Maternal | Dual | | | | | | |
|--------------------------|----------------|-----------------|------------|--|--|--|--|--|--|
| Maladjustment Risk | Alcoholism | Alcoholism | Alcoholism | | | | | | |
| | College Sample | | | | | | | | |
| Diagnostic History (> 0) | 1.25* | 1.46** | 1.61** | | | | | | |
| Treatment History (> 0) | 1.50*** | 1.73*** | 1.40* | | | | | | |
| Conduct Problems (> 2) | 1.81*** | 2.29*** | 1.96** | | | | | | |
| Drug Use (> 0) | 2.37*** | 3.23*** | 4.49*** | | | | | | |
| Alcohol Abuse (MAST > 6) | 1.64*** | 2.05*** | 2.23*** | | | | | | |
| Alcohol-Related Arrest | 1.37 | 2.68*** | 1.60 | | | | | | |
| Suicide Attempt (1) | 1.66** | 2.75*** | 3.43*** | | | | | | |
| Suicide Attempt (> 1) | 2.34*** | 3.52*** | 3.26*** | | | | | | |
| | | National Sample | <u>)</u> | | | | | | |
| Diagnostic History (> 0) | 1.75** | 1.54** | 1.27 | | | | | | |
| Treatment History (> 0) | 1.59** | 1.57*** | 1.54*** | | | | | | |
| Conduct Problems (> 2) | 1.36 | 4.64*** | 1.89*** | | | | | | |
| Drug Use (> 0) | 1.22** | 1.30** | 1.50*** | | | | | | |
| Alcohol Abuse (MAST > 6) | 1.63** | 1.26* | 1.87*** | | | | | | |
| Alcohol-Related Arrest | 2.03*** | 2.52*** | 3.45*** | | | | | | |
| Suicide Attempt (1) | 1.35 | 1.82** | 1.19 | | | | | | |
| Suicide Attempts (> 1) | 2.84*** | 4.18*** | 4.50*** | | | | | | |

Table 10. Relative Risks Posed by Parental Alcoholism Classifications

Note. * p < .05. **p < .01. *** p < .001. No Alcoholism Cell (CASTD =0; CASTM = 0) used as control condition in each *RR* estimation. Conduct disturbance symptoms all occurred prior to age 15.

REFERENCES

- Abdel-Khalek, A.M. & Alansari, B.M. (2004). Gender differences in anxiety among undergraduates from ten arab countries. *Social Behavior and Personality*, 32(7), 649-656.
- Adler, M.G. & Fagley, N.S. (2005). Appreciation: Individual differences in finding value and meaning as a unique predictor of subjective well-being. *Journal of Personality*, 73(1), 79-114.
- Ahler, D.J., Roush, C.E., & Sood, G. (2019). The task market for lemons: Data quality on amazon's mechanical turk.
- Alterman, A.I., Renner, B.J., Cacciola, J.S., Mulvaney, F.D., & Rutherford, M.J. (2000).
 Familial risk of alcoholism and self-reported psychopathology. *Psychology of Addictive Behaviors, 14*(1), 19-28.
- Alterman, A.I., Cacciola, J.S., Rutherford, M.J., Mulvaney, F.D., & Langenbucher, J.
 (2002). Alcohol dependence and abuse in three groups at varying familial alcoholism risk. *Journal of Counseling and Clinical Psychology*, 70(2), 336-343.
- Anda, R.F., Whitfield, C.L., Felitti, V.J., Chapman, D., Edwards, V.J., Dube, S.R., &
 Williamson, D.F. (2002). Adverse childhood experiences, alcoholic parents, and
 later risk of alcoholism and depression. *Psychiatric Services*, *53*(8), 1001-1009.
- Anderson, D.A., Williamson, D.A., Duchmann, E.G., Gleaves, D.H., & Barbin, J.M.
 (1999). Development and validation of a multifactorial treatment outcome measure for eating disorders. *Assessment*, 6(1), 7-20.
- Anderson, J.L., Sellbom, M., Bagby, R.M., Quilty, L.C., Veltri, C.O., Markon, K.E., & Krueger, R.F. (2013). On the convergence between PSY-5 domains and PID-5

domains and facets: Implications for assessment of DSM-5 personality traits. *Assessment, 20*(3), 286-294.

- Archer, J., & Webb, I.A. (2006). The relation between scores on the Buss–Perry
 Aggression Questionnaire and aggressive acts, impulsiveness, competitiveness,
 dominance, and sexual jealousy. *Aggressive Behavior*, *32*, 464–473.
 doi:10.1002/ab.20146
- Atony, M.M., Bieling, P.J., Cox, B.J., Enns, M.W., & Swinson, R.P. (1998).
 Psychometric properties of the 42-items and 21-item versions of the Depression
 Anxiety Stress Scales in clinical groups and a community sample. *Psychological Assessment, 10*(2), 176-181.
- Barnow, S., Schuckit, M., Smith, T.L., Preuss, U., & Danko, G. (2002). The relationship between the family denisity of alcoholism and externalizing symptoms among 146 children. *Alcohol & Alcoholism*, 37(4), 383-387.
- Belliveau, J.M. & Stoppard, J.M. (1995). Parental alcohol abuse and gender as predictors of psychopathology in adult children of alcoholics. *Addictive Behaviors, 20*(5), 619-625.
- Bijttebier, P., Goethals, E., & Ansoms, S. (2006). Parental drinking as a risk factor for children's maladjustment: The mediating role of family environment. *Psychology* of Addictive Behaviors, 20(2), 126-130.
- Brown, K.W. & Ryan, R.M. (2003). The benefits of being present: Mindfulness and its role in psychological well-being. *Journal of Personality and Social Psychology*, 84(4), 822-848.

- Brown, T.A., Chorpita, B.F., Korotitsch, W., & Barlow, D.H. (1997). Psychometric properties of the Depression Anxiety Stress Scales (DASS) in clinical samples. *Behav Res Ther*, 35(1), 79-89.
- Buss, A.H. & Perry, M. (1992). The aggression questionnaire. *Journal of Personality and Social Psychology*, 63(3), 452-459.

Burleigh, T., Kennedy, R., & Clifford, S. (2018). How to screen out vps and international respondents using qualtrics: A protocol. Available at SSRN: <u>https://ssrn.com/abstract=3265459</u>.

- Capone, C. & Wood, M.D. (2008). Density of familial alcoholism and its effects on alcohol use and problems in college students. *Clinical and Experimental Research*, 32(8), 1451-1458.
- Charland, H. & Cote, G. (1998). The Children of Alcoholics Screening Test (CAST):
 Test-retest reliability and concordance validity. *Journal of Clinical Psychology*, 54(7), 995-1003.
- Chassin, L., Curran, P.J., Hussong, A.M., & Colder, C.R. (1996). The relation of parent alcoholism to adolescent substance use: A longitudinal follow-up study. *Journal* of Abnormal Psychology, 105(1), 70-80.
- Chen, Y.Y. & Weitzman, E.R. (2005). Depressive symptoms, DSM-IV alcohol abuse and their comorbidity among children of problem drinkers in a national survey:
 Effects of parent and child gender and parent recovery status. *J. Stud. Alcohol, 66*, 66-73.

- Christensen, H.B. & Bilenberg, N. (2000). Behavioural and emotional problems in children of alcoholic mothers and fathers. *European Child & Adolescent Psychiatry*, 9, 219-226.
- Clair, D.J. & Genest, M. (1992). The Children of Alcoholics Screening Test: Reliability and relationship to family environment, adjustment, and alcohol-related stressors of adolescent offspring of alcoholics. *Journal of Clinical Psychology*, 48(3), 414-420.
- Clara, I.P., Cox, B.J., & Enns, M.W. (2001). Confirmatory factor analysis of the Depression-Anxiety-Stress Scales in depression and anxious patients. *Journal of Psychopathology and Behavioral Assessment, 23*(1), 61-67.
- Coffelt, N.L., Forehand, R., Olson, A.L., Jones, D.J., Gaffney, C.A., & Zens, M.S.
 (2006). A longitudinal examination of the link between parent alcohol problems and youth drinking: The moderating roles of parent and child gender. *Addictive Behaviors, 31*, 593-605.
- Cook, B., Karr, T.M., Zunker, C., Mitchell, J.E., Thompson, R., Sherman, R., Crosby,
 R.D. ... Wonderlich, S.A. (2013). Primary and secondary exercise dependence in a community-based sample of road race runners. *Journal of Sport & Exercise Psychology*, 35, 464-469.
- Corte, C. & Becherer, M. (2007). Differential effects of maternal and paternal alcoholism and gender on drinking, alcohol-related self-cognition, and psychopathology.
 Journal of Addiction Nursing, 18, 175-185. doi: 10.1080/10884600701698828
- Crawford, J.R., Garthwaite, P.H., Lawrie, C.J., Henry, J.D., MacDonald, M.A., Sutherland, J., & Sinha, P. (2009). A convenient method of obtaining percentile

norms and accompanying interval estimates for self-report mood scales (DASS, DASS-21, HADS, PANAS, and sAD). *British Journal of Clinical Psychology, 48*, 163-180.

- Crum, R.M. & Harris, E.L. (1996). Risk of alcoholism and parental history: Gender differences and a possible reporting bias. *Genetic Epidemiology*, *13*(4), 329-342.
- Cuijpers, P., Langendoen, Y., & Bijl, R.V. (1999). Psychiatric disorders in adult children of problem drinkers: Prevalence, first onset and comparison with other risk factors. *Addiction*, 94(10), 1489-1498.
- Dager, A.D., McKay, D.R., Kent, J.W., Curran, J.E., Knowles, E., Sprooten, E., ... Glahn, D.C. (2015). Shared genetic factors influence amygdala volumes and risk for alcoholism. *Neuropsychopharmacology*, 40, 412-420. doi:10.1038/npp.2014.187
- Dawson, D.A., Harford, T.C., & Grant, B.F. (1992). Family history as a predictor of alcohol dependence. *Alcoholism: Clinical and Experimental Research*, 16(3), 572-575.
- Daza, P., Novy, D.M., Stanley, M.A., & Averill, P. (2002). The Depression Anxiety
 Stress Scale-21: Spanish translation and validation with a hispanic sample.
 Journal of Psychopathology and Behavioral Assessment, 24(3), 195-205.
- Diaz, R., Gual, A., Garcia, M., Arnau, J., Pascual, F., Canuela, B., ... Garbayo, I. (2008).
 Children of alcoholics in Spain: From risk to pathology. *Social Psychiatry Psychiatric Epidemiology, 43,* 1-10. DOI 10.1007/s00127-007-0264-2
- Diener, E., Emmons, R.A., Larsen, R.J., & Griffin, S. (1985). The Satisfaction with Life Scale. *Journal of Personality Assessment, 49*(1), 71-75.

- Dinning, W.D. & Berk, L.A. (1989). The Children of Alcoholics Screening Test:
 Relationship to sex, family environment, and social adjustment in adolescents.
 Journal of Clinical Psychology, 45(2), 335-339.
- Drapkin, M.L., Eddie, D., Buffington, A.J., & McCrady, B.S. (2015). Alcoholic-specific coping styles of adult children of individuals with alcohol use disorders and associations with psychosocial functioning. *Alcohol and Alcoholism*, *50*(4), 463-469.
- Dube, S.R., Anda, R.F., Felitti, V.J., Croft, J.B., Edwards, V.J., & Giles, W.H. (2001).Growing up with parental alcohol abuse: Exposure to childhood abuse, neglect, and household dysfunction. *Child Abuse & Neglect*, 25, 1627-1640.
- Earls, F., Reich, W., Jung, K.G., & Cloninger, R. (1988). Psychopathology in children of alcoholic and antisocial parents. *Alcoholism: Clinical and Experimental Research*, 12(4), 481-487.
- Eckbald, M. & Chapman, L.J. (1986). Development and validation of a scale for hypomanic personality. *Journal of Abnormal Psychology*, *95*(3), 214-222.
- Edwards, E.P., Eiden, R.D., Colder, C., & Leonard, K.E. (2006). The development of aggression in 18 to 48 month old children of alcoholic parents. *Journal of Abnormal Child Psychology*, *34*(3), 409-423.
- Field, A. (2018). Discovering statistics using IBM SPSS statistics (5th ed.). Thousand Oaks, CA: Sage Publications.
- Gerevich, J., Bacskai, E., & Czobor, P. (2007). The generalizability of the Buss-Perry Aggression Questionnaire. *International Journal of Methods of Psychiatric Research*, 16(3), 124-136.

doi:10.1002/mpr.221

- Goldfarb, L.A., Dykens, E.M., & Gerrard, M. (1985). The Goldfarb Fear of Fat Scale. Journal of Personality Assessment, 49(3), 329-332.
- Grayson, C.E. & Nolen-Hoeksema, S. (2005). Motives to drink as mediators between childhood sexual assault and alcohol problems in adult women. *Journal of Traumatic Stress*, 18(2), 137-145.
- Haber, J.R., Jacob, T., & Heath, A.C. (2005). Paternal alcoholism and offspring conduct disorder: Evidence for the common genes hypothesis. *Twin Research and Human Genetics*, 8(2), 120-131.
- Haber, J.R., Bucholz, K.K., Jacob, T., Grant, J.D., Scherrer, J.F., Sartor, C.E., Duncan,
 A.E., and Heath, A. (2010). Effect of paternal alcohol and drug dependence on
 offspring conduct disorder: Gene-environment interplay. *J. Stud. Alcohol Drugs*,
 71, 652-663.
- Hall, C.W., Bolen, L.M., & Webster, R.A. (1994). Adjustment issues with adult children of alcoholics. *Journal of Clinical Psychology*, *50*(2), 786-792.
- Harter, S.L. & Taylor, T.L. (2000). Parental alcoholism, child abuse, and adult adjustment. *Journal of Substance Abuse, 11*(1), 31-44.
- Henry, J.D. & Crawford, J.R. (2005). The short-form version of the Depression Anxiety Stress Scales (DASS-21): Construct validity and normative data in a large nonclinical sample. *British Journal of Clinical Psychology*, 44, 227-239.
- Herting, M.M., Schwartz, D., Mitchell, S.H., & Nagel, B.J. (2010). Delay discounting behavior and white matter microstructure abnormalities in youth with a family

history of alcoholism. *Alcoholism: Clinical and Experimental Research, 34*(9), 1590-1602. doi: 10.1111/j.1530-0277.2010.01244.x

- Hill, S.Y., Shen, S., Lowers, L., & Locke, J. (2000). Factors predicting the onset of adolescent drinking in families at high risk for developing alcoholism. *Society of Biological Psychiatry*, 48, 265-275.
- Hopwood, C.J., Schade, N., Krueger, R.F., Wright, A.G.C., & Markon, K.E. (2012).
 Connecting DSM-5 personality traits and pathological beliefs: Toward a unifying model. *Journal of Psychopathology and Behavioral Assessment*, 35(2), 162-172.
- Hussong, A.M., Wirth, R.J., Edwards, M.C., Curran, P.J., Chassin, L.A., & Zucker, R.A.
 (2007). Externalizing symptoms among children of alcoholic parents: Entry points for an antisocial pathway to alcoholism. *Journal of Abnormal Psychology*, *116*(3), 529-542.
- Jones, J. W. (1983). The children of alcoholics screening test: A validity study. *Bulletin* of the Society of Psychologists in Addictive Behaviors, 2, 155-163.
- Jones, A.L., Perera-Filtz, D.M., Salyers, K.M., Laux, J.M., & Cochrane, W.S. (2007). Testing hypothesized differences between adult children of alcoholics (ACOAs) and non-acoas in a college student sample. *Journal of College Counseling, 10,* 19-26.
- Kelley, M.L., Braitman, A., Henson, J.M., Schroeder, V., Ladage, J., & Gumienny, L. (2010). Relationships among depressive mood symptoms and parent and peer relations in collegiate children of alcoholics. *American Journal of Orthopsychiatry*, 80(2), 204-212.

- Kennedy, R., Clifford, S., Burleigh, T., Jewell, R., & Waggoner, P. (2018). The shape of and solutions to the mturk quality crisis.
- Khavari, K.A., & Farber, P.D. (1978). A profile instrument for the quantification and assessment of alcohol consumption: The Khavari Alcohol Test. *Journal of Studies* on Alcohol, 39(9), 1525 1539.
- King, A.R., Russell, T.D., & Bailly, M.D. (2017). Psychometric properties of the Lifetime Assessment of Violent Acts. *Violence and Victims*, 32(6).
- King, K.M. & Chassin, L. (2007). A prospective study of the effects of age of initiation of alcohol and drug use on young adult substance dependence. J. Stud. Alcohol Drugs, 68, 256-265.
- Klostermann, K., Chen, R., Kelley, M.L., Schroeder, V.M., Braitman, A.L., & Mignone,
 T. (2011). Coping behavior and depressive symptoms in adult children of
 alcoholics. *Substance Use & Misuse, 46*, 1162-1168.
- Krueger, R.F., Derringer, J., Markon, K.E., Watson, D., & Skodol, A.E. (2012). Initial construction of a maladaptive personality trait model and inventory for DSM-5. *Psychological Medicine*, 42, 1879-1890.
- Kuperman, S., Scholosser, S.S., Lidral, J., & Reich, W. (1999). Relationship of child psychopathology to parental alcoholism and antisocial personality disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*, 38(6), 686-692.
- LaBrie, J.W., Kenney, S.R., Lac, A., & Migliuri, S.F. (2009). Differential drinking patterns of family history positive and family history negative first semester college females. *Addict Behav*, *34*(2), 190-196.

- Lewis, R.J., Cash, T.F., Jacobi, L., & Bubb-Lewis, C. (1997). Prejudice toward fat people: The development and validation of the Antifat Attitudes Test. *Obesity Research*, 5(4), 297-307.
- Lipari, R.N. and Van Horn, S.L. (2017). *Children living with parents who have a substance use disorder*. The CBHSQ Report: Center for Behavioral Health Statistics and Quality, Substance Abuse and Mental Health Services Administration, Rockville, MD.
- Lown, E.A., Nayak, M.B., Korcha, R.A., & Greenfield, T.K. (2011). Child physical and sexual abuse: A comprehensive look at alcohol consumption patterns, consequences, and dependence from the national alcohol survey. *Alcoholism: Clinical and Experimental Research*, *35*(2), 317-325.
- Lovibond, P.F. & Lovibond, S.H. (1995). The structure of negative emotional states: Comparison of the Depression Anxiety Stress Scales (DASS) with the Beck Depression and Anxiety Inventories. *Behav Res Ther*, *33*(3), 335-343.
- MacKillop, J. & Anderson, E.J. (2007). Further psychometric validation of the Mindful Attention Awareness Scale (MAAS). *J Psychopathol Behav Assess, 29*, 289-293.
- McCauley Ohannessian, C., Hesselbrock, V.M., Kramer, J., Kuperman, S., Bucholz,
 K.K., Schuckit, M.A., & Nurnberger, J.J. (2004). The relationship between
 parental alcoholism and adolescent psychopathology: A systematic examination
 of parental comorbid psychopathology. *Journal of Abnormal Child Psychology*,
 32(5), 519-533.
- Merikangas, K.R. & Avenevoli, S. (2000). Implications of genetic epidemiology for the prevention of substance use disorders. *Addictive Behaviors*, *25*(6), 807-820.

- Mesman, G.R., Edge, N.A., McKelvey, L.M., Pemberton, J.L., & Holmes, K.J. (2017). Effects of maternal depression symptoms and alcohol use problems on child internalizing and externalizing behavior problems. *J Child Fam Stud, 26*, 2485-2494.
- Minnich, A., Erford, B.T., Bardhoshi, G., & Ataley, Z. (2018). Systematic review of the Michigan Alcoholism Screening Test. *Journal of Counseling & Development*, 96(3), 335-344.
- Molina, B.S.G., Donovan, J.E., & Belendiuk, K.A. (2010). Familial loading for alcoholism and offspring behavior: Mediating and moderating influences.
 Alcoholism: Clinical and Experimental Research, 34(11), 1972-1984.
- Morgan, P.T., Desai, R.A., & Potenza, M.N. (2010). Gender-related influenced of parental alcoholism on the prevalence of psychiatric illnesses: Analysis of the national epidemiologic survey on alcohol related conditions. *Alcoholism: Clinical and Experimental Research*, 34(10), 1759-1767.
- Morrison, T.G. & O'Connor, W.E. (1999). Psychometric properties of a scale measuring negative attitudes toward overweight individuals. *Journal of Social Psychology*, *139*(4), 436-445.
- Nicholas, K.B. & Rasmussen, E.H. (2006). Childhood abusive and supportive experiences, inter-parental violence, and parental alcohol use: Prediction of young adult depression symptoms and aggression. *Journal of Family Violence, 21*(1), 43-61.
- Norton, P.J. (2007). Depression Anxiety and Stress Scales (DASS-21): Psychometric analysis across four racial groups. *Anxiety, Stress, & Coping, 20*(3), 253-265.

- Obot, I.S. & Anthony, J.C. (2004). Mental health problems in adolescent children of alcohol dependent parents: Epidemiologic research with a nationally representative sample. *Journal of Child & Adolescent Substance Abuse, 13*(4), 83-96.
- Ohannessian, C.M. & Hesselbrock, V.M. (2004). Do alcohol expectancies moderate the relationship between parental alcoholism and adult drinking behaviors? *Addictive Behaviors, 29*, 901-909.
- Osman, A., Chiros, C.E., Guiterrez, P.M., Kopper, B.A., & Barrios, F.X. (2001). Factor structure and psychometric properties of the Brief Mizes Anorectic Cognitions Questionnaire. *Journal of Clinical Psychology*, 57(6), 785-799.
- Palmer, E.J. & Thakordas, V. (2005). Relationship between bullying and scores on the Buss-Perry Aggression Questionnaire among imprisoned male offenders. *Aggressive Behavior*, 31, 55-66.
- Pavot, W., Diener, E. Colvin, R.C., & Sandvik, E. (1991). Further validation of the Satisfaction With Life Scale: Evidence for the cross-method convergence of wellbeing measures. *Journal of Personality Assessment*, 57(1), 149-161.
- Pavot, W. & Diener, E. (1993). Review of the Satisfaction With Life Scale. *Psychological Assessment*, 5(2), 164-172.
- Pearson, M.R., D'Lima, G.M., & Kelley, M.L. (2012). Maternal and paternal alcohol misuse and alcohol-related outcomes among college students. *Substance Use & Misuse*, 47, 708-717.

- Perkin, H.W. & Berkowitz, A.D. (1991). Collegiate COAs and alcohol abuse: Problem drinking in relation to assessments of parent and grandparent alcoholism. *Journal* of Counseling & Development, 69, 237-240.
- Preuss, U.W., Schuckit, M.A., Smith, T.L., Barnow, S., & Danko, G.P. (2002). Mood and anxiety symptoms among 140 children from alcoholic and control families. *Drug* and Alcohol Dependence, 67, 235-242.
- Quilty, L.C., Ayearst, L., Chmielewski, M., Pollock, B.G., & Bagby, R.M. (2013). The psychometric properties of the personality inventory for DSM-5 in an APA DSM-5 field trial sample. *Assessment*, 362-369.
- Reich, W., Earls, F., Frankel, O., & Shayka, J.J. (1993). Psychopathology in children of alcoholics. *Journal of the American Academy of Child and Adolescent Psychiatry*, 32(5), 995-1002.
- Roosa, M.W., Sandler, I.N., Beals, J., & Short, J.L. (1988). Risk status of adolescent children of problem-drinking parents. *American Journal of Community Psychology*, 16(2), 225-239.
- Rosenberg, M. (1965). Society and the adolescent self-image. Princeton, N.J.: Princeton University Press.
- Rushford, N. (2006). Fear of gaining weight: Its validity as a visual analogue scale in anorexia nervosa. *European Eating Disorders Review, 14*, 104-110.
- Russell, T.D. (2016). *The PID-5, everyday sadism, and parental attachment predict sexual aggression.* (Master's thesis). Retrieved from ProQuest: 10125553.

- Rusticus, S. & Lovato, C. (2014). Impact of Sample Size and variability on the Power and Type I Error Rates of Equivalence Tests: A Simulation Study. *Practical Assessment, Research & Evaluation. Vol. 19, No. 11. August.*
- Schumacher, M.M. (1990). Personality characteristics of adult children of alcoholics compared to control subjects (Unpublished master's thesis). University of North Dakota, Grand Forks, ND.
- Selzer, M.L. 1971. The Michigan Alcoholism Screening Test: a quest for a new diagnostic instrument. *American Journal of Psychiatry* 127, 1653–1658.
- Sheridan, M.J. (1995). A proposed intergenerational model of substance abuse, family functioning, and abuse/neglect. *Child Abuse & Neglect*, 19(5), 519-530.
- Sheridan, M.J. (1995). A psychometric assessment of the Children of Alcoholics Screening Test (CAST). *Journal of Studies on Alcohol*, *56*, 156-160.
- Shin, S.H., Hassamal, S., & Peasley Groves, L. (2015). Examining the role of psychological distress in linking childhood maltreatment and alcohol use in young adulthood. *The American Journal on Addictions*, 24, 628-636.
- Sinclair, S.J., Siefert, C.J., Slavin-Mulford, J.M., Stein, M.B., Renna, M., & Blais, M.A. (2012). Psychometric evaluation and normative data for the Depression, Anxiety, and Stress Scales-21 (DASS-21) in a nonclinical sample of US adults. *Evolution & The Health Professions*, 35(5), 259-279.
- Sinclair, S.J., Blais, M.A., Gansler, D.A., Sandberg, E., Bistis, K., & LoCicero, A.
 (2010). Psychometric properties of the Rosenberg Self-Esteem Scale: Overall and across demographic groups living within the United States. *Evolution & the Health Professions*, 33(1), 56-80.

- Slutske, W.S., D'Onofrio, B.M., Turkeimer, E., Emery, R.E., Harden, K.P., Heath, A.C., & Martin, N.G. (2008). Searching for an environmental effect of parental alcoholism on offspring alcohol use disorder: A genetically informed study of children of alcoholics. *Journal of Abnormal Psychology*, *117*(3), 534-551.
- Stanton, K., Daly, E., Stasik-O'Brien, S.M., Ellickson-Lawrew, S., Clark, L.A., & Watson, D. (2017). An integrative analysis of the narcissistic personality inventory and the hypomanic personality scale: Implications for construct validity. *Assessment*, 24(6), 695-711.
- Steger, M.F., Frazier, P., Oishi, S., & Kaler, M. (2006). The Meaning in Life Questionnaire: Assessing the presence of and search for meaning in life. *Journal* of Counseling Psychology, 53(1), 80-93.
- Substance Abuse and Mental Health Services Administration. (2017). *Key substance use and mental health indicators in the United States: Results from the 2016 National Survey on Drug Use and Health* (HHS Publication No. SMA 17-5044, NSDUH Series H-52). Rockville, MD: Center for Behavioral Health Statistics and Quality, Substance Abuse and Mental Health Services Administration. Retrieved from https://www. samhsa.gov/data/
- Teitelbaum, L.M. & Carey, K.B. (2000). Temporal stability of alcohol screening measures in a psychiatric setting. *Psychology of Addictive Behaviors*, 14(4), 401-404.
- Thompson, R.G., Alonzo, D., Grant, B.F., & Hasin, D.S. (2013). Parental divorce, maternal-paternal alcohol problems, and adult offspring lifetime alcohol

dependence. Journal of Social Work Practice in Addictions, 13, 295-308. doi: 10.1080/1533256X.2013.812909

- Tomori, M. (1994). Personality characteristics of adolescents with alcoholic parents. *Adolescence, 29*(116), 949-959.
- Walsh, M.A., DeGeorge, D.P., Barrantes-Vidal, N., & Kwapil, T.R. (2015). A 3-year longitudinal study of risk for bipolar spectrum psychopathology. *Journal of Abnormal Psychology*, 124(3), 486-497.
- Webster, G.D., Smith, C.V., Brunell, A.B., Paddock, E.L., & Nezlek, J.B. (2017). Can Rosenberg's (1965) Stability of Self Scale capture within-person self-esteem variability? Meta-analytic validity and test-retest reliability. *Journal of Research in Personality*, 69, 156-169.
- Weinfurt, K. P. (1995). Multivariate analysis of variance. In Grimm, L. G. & P. R.
 Yarnold (Ed.), *Reading and understanding multivariate statistics* (pp 245-276).
 Washington, DC: American Psychological Association.
- Weitzman, E.R. & Wechsler, H. (2000). Alcohol use, abuse, and related problem among children of problem drinkers: Findings from a national survey of college alcohol use. *The Journal of Nervous and Mental Disease*, 188(3), 148-154.
- Wright, A.G. & Simms, L.J. (2014). On the structure of personality disorder traits:
 Conjoint analyses of the CAT-PD, PID-5, and NEO-PI-3 trait models. *Personality Disorders: Theory, Research, and Treatment 5*(1), 43-54.
- Zung B.J. (1982). Evaluation of the Michigan Alcoholism Screening Test (MAST) in assessing lifetime and recent problems. *Journal of Clinical Psychology*, 38(2), 425-439.