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Sociodemographic, Behavioral, and Substance Use Correlates of Reckless Driving in the United States: Findings from a National Sample

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Abstract

This study examined the sociodemographic, behavioral, psychiatric, and substance use correlates of three forms of reckless driving using a nationally representative sample of U.S. adults. Participants were 43,093 adults from the National Epidemiologic Survey on Alcohol and Related Conditions (NESARC). Interviewers administered the Alcohol Use Disorder and Associated Disabilities Interview Schedule – DSM-IV version (AUDADIS-IV). This measure provides extensive sociodemographic data as well as diagnoses for mood, anxiety, personality, and substance use disorders. Reckless driving was significantly associated with male gender, lower levels of income, being born in the U.S., and numerous forms of antisocial behaviors. Fully adjusted models revealed significant effects with respect to substance use disorders across categories of reckless drivers with those having their licenses revoked or suspended being particularly more likely to be diagnosed with antisocial (AOR = 3.35, 95% CI = 2.54, 4.42) and paranoid personality disorder (AOR = 1.56, 95% CI = 1.07, 2.29). All three reckless driving groups were more likely to have a family history of antisocial behavior than non-reckless drivers. Study findings provide information from which targeted behavioral interventions can be applied.

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Keywords

Antisocial behavior; comorbidity; drinking; driving; reckless driving

Reckless driving defined as wanton disregard of traffic laws which poses a threat to traffic safety, is a significant social and public health problem in the U.S. and worldwide. In higher-income, developed nations, for example, road traffic injuries are the leading cause of death for persons ages 5 to 14 and 15 to 44. Road traffic injuries—many which are the direct result of reckless driving—constitute the 10th leading cause of death globally and the 9th leading contributor to disease burden (1). In the U.S., motor vehicle accidents are the leading cause of death for persons ages 1 to 34 and result in economic costs in excess of \$230 billion (2-3). Epidemiological studies from multiple nations indicate that the strongest determinant of traffic-related deaths, injuries, and economic costs is reckless driving particularly driving while under the influence of alcohol (4-6). In addition to these costs reckless driving can also have pernicious psychological consequences for victims and perpetrators including increased stress (7-8), PTSD symptoms (9), and major depression one-year following a motor vehicle injury (3, 10 - 11).

Substance Use and Reckless Driving

An important factor in reckless driving is alcohol and drug use. Of the 37,261 individuals who were killed in traffic crashes in 2008, 32% (about 12,000) died as a result of alcohol impairment with blood alcohol concentration exceeding .08% (12). Alcohol-related motor vehicle accidents accounted for 22% of total economic costs due to motor vehicle accidents and 46% of fatality-related costs (3). Illicit drug use is involved in 5-25% of motor vehicle accidents; the most commonly detected drugs in impaired drivers were cannabis, followed by benzodiazepines, cocaine and other stimulants, and opioids (13). In a comparative study of a New Mexico sample of convicted drunk drivers and participants in the National Comorbidity Survey, 85% of females and 91% of males in New Mexico had a lifetime alcohol use disorder (14), prevalence rates that were significantly higher than the National Comorbidity Survey which reported rates of 22% of females and 44% of males, respectively. Of DWI offenders with alcohol use disorders, 50% of women and 33% of men had at least one additional psychiatric disorder (14). In addition, 32% of women in the study and 38% of men had a drug use disorder compared to 16% and 21% respectively on the National Comorbidity Survey. It was also found that depression was highly correlated with motor vehicle accidents in men with a history of alcohol dependence (15). Despite these results, there are relatively few systematic findings on the prevalence and correlates of reckless drivers and their comorbid conditions. This is unfortunate given that the economic costs and adverse health consequences of reckless driving are substantial. Although it is not surprising that reckless driving is associated with substance use disorders and antisocial behavior, few studies have documented the specific quantitative nature of these variables in conjunction other psychiatric disorders and sociodemographic factors.

STUDY PURPOSE

The present study sought to fill in the gap in the literature on reckless drivers by examining sociodemographic, behavioral, psychiatric, and substance use correlates of reckless driving using a nationally representative sample of U.S. adults. The primary aims were to 1) compare adults with a lifetime history of reckless driving to individuals without such a history across sociodemographic variables, childhood and adult antisocial behaviors, and lifetime mood, anxiety, substance use, and personality disorders, and 2) to estimate the magnitude of associations between these variables and severity of reckless driving history in

controlled multivariate analyses. Two hypotheses were tested: 1) reckless driving will be positively associated with substance use disorders and antisocial behavior even after controlling for sociodemographic characteristics and lifetime psychiatric disorders, and 2) severity of reckless driving history will be positively associated with prevalence and severity of substance use and antisocial behavior.

METHOD

Participants

Study findings are based on data from the 2001-2002 National Epidemiologic Survey on Alcohol and Related Conditions (NESARC). NESARC is a nationally representative sample of 43,093 non-institutionalized U.S. residents aged 18 years and older. (16). The survey gathered background data and extensive information about a wide range of behaviors. NESARC is the largest comorbidity survey to date collecting diagnostic information from individuals living in households and group settings such as shelters, college dormitories, and group homes in all 50 states and the District of Columbia. NESARC utilized a multistage cluster sampling design, oversampling young adults, Hispanics, and African-Americans in the interest of obtaining reliable statistical estimation in these subpopulations, and to ensure appropriate representation of racial/ethnic subgroups. The overall response rate was 81%. Data were weighted at the individual and household levels to adjust for oversampling and non-response on demographic variables (i.e., age, race/ethnicity, sex, region, and place of residence). Data were also adjusted to be representative (based on region, age, race, and ethnicity) of the U.S. adult population as assessed during the 2000 Census. Study participants provided fully informed consent. The U.S. Census Bureau and the U.S. Office of Management and Budget approved the research protocol and informed consent procedures.

Diagnostic Assessment and Sociodemographic Measures

Data were collected through face-to-face structured psychiatric interviews conducted by U.S. Census workers trained by the National Institute on Alcohol Abuse and Alcoholism and U.S. Census Bureau. Interviewers administered the Alcohol Use Disorder and Associated Disabilities Interview Schedule – DSM-IV version (AUDADIS-IV), which in addition to extensive background and sociodemographic data provides diagnoses for mood, anxiety, personality, and substance use disorders. The AUDADIS-IV has shown good-to-excellent reliability in assessing alcohol and drug use in the general population. (17-18).

The lifetime prevalence of reckless driving was assessed with three items embedded in the antisocial behavior interview module. All NESARC participants were asked the following questions: In your entire life, "did you ever do things that could easily hurt you or someone else like speeding or driving after too much to drink?," "did you ever get more than 3 tickets for reckless/careless driving, speeding, or causing an accident?," "did you ever have drivers license suspended or revoked for moving violations?" NESARC respondents who did not answer yes to any of these three items were defined as non-reckless drivers. Respondents who answered "yes" to only the first item were defined as being *episodic reckless/drinking-related*, those answering 'yes' to item two (regardless of their response to item one) were defined as *chronically reckless*, and participants who responded yes any item and item three or item three only were considered as *chronic/severely reckless*. In terms of the psychometric properties of the antisocial behavior section, the test-retest reliability for the antisocial personality disorder diagnosis was adequate (r = 0.69) (16). The internal consistency reliability for the entire antisocial personality disorder criterion set was also good ($\alpha = .86$) (19).

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Consistent with current conceptualizations of personality disorders (20-22), DSM-IV personality disorder diagnoses reflected characteristic patterns of behavior accompanied by longstanding impairment and the exclusion of cases where substance use intoxication or withdrawal, other medication use, or physical illnesses could have contributed to reported Axis II personality disorder symptoms and indicators. In addition to antisocial personality disorder, other personality disorders assessed included avoidant, dependent, obsessivecompulsive, paranoid, schizoid, and histrionic disorders. Family history of antisocial behavior based on any parental or sibling history of antisocial behavior was also assessed. Response categories for region of residence in U.S., urbanicity, race/ethnicity, sex, age, marital status, educational background, unemployment status, and individual and family income are listed in Table 1.

Statistical Analyses

Weighted prevalence estimates and standard errors were computed using SUDAAN Version 9.0. (23). This software implements a Taylor series linearization to adjust standard errors of estimates for complex survey sampling design effects including clustered data. Cross tabulations were conducted with reckless drinking-related, chronic, and chronic/severe categories of reckless drivers and sociodemographic variables and violent and non-violent antisocial behaviors. Multivariate multinomial logistic regression analyses were executed to assess the relationship of indicators of reckless driving to each psychiatric disorder while controlling for sociodemographic covariates and lifetime psychiatric diagnoses. Specifically, control variables used to reduce confounding included lifetime alcohol (alcohol abuse/ dependence) and drug (abuse/dependence on heroin, hallucinogens, cocaine/crack, marijuana, stimulants, painkillers, tranquilizers, and sedatives) use disorders, nicotine dependence, pathological gambling, and lifetime DSM-IV mood (major depression, dysthymia, and bipolar disorder) and anxiety (social phobia, generalized anxiety disorder, panic disorder, and specific phobia) disorders. Adjusted odds ratios (AORs) and 95% confidence intervals are presented to reflect the strength of the associations. Adjusted odds ratios were considered statistically significant only if each odds ratio were accompanied by a confidence interval that did not include the value 1.0.

RESULTS

Sociodemographic Characteristics across Categories of Reckless Driving

Table 1 displays sociodemographic characteristics of adults without a lifetime history of reckless driving compared to persons who reported a lifetime history of reckless driving/ drinking related, chronically reckless, and chronic and severely reckless. The overall prevalence of engaging in any form of reckless driving over the life-course was 25.24%. The prevalence of chronic/severe reckless driving (drivers license suspended or revoked) was 2.69%. Compared to non-reckless drivers, those reporting a lifetime history of reckless driving were more likely to be men (reckless – drinking OR = 2.41, 95% CI = 2.18, 2.66, chronic OR = 4.02, 95% CI = 3.70, 4.36, chronic/severe OR = 8.51, CI = 7.05, 10.26), born in the U.S. (reckless - drinking OR = 3.87, 95% CI = 3.03, 4.95, chronic OR = 2.45, 95% CI = 2.02, 2.96, chronic/severe OR = 2.10, 95% CI = 1.40, 3.14), and were uniformly more likely to be younger in age. With respect to racial and ethnic differences, Whites and Native-Americans were significantly more likely to endorse all forms of reckless driving compared to Hispanics. African-Americans were significantly less likely (OR = 0.71, 95% CI = 0.56, 0.90) to report episodic – drinking reckless driving. Asians were significantly less likely to report chronic (OR = 0.60, 95% CI = 0.44, 0.83) and chronic/severe reckless driving (OR = 0.33, 95% CI = 0.15, 0.73). Chronically reckless drivers were more likely to possess less than a high school education (OR = 1.13, 95% CI = 1.00, 1.29) as were chronic/severe reckless drivers (OR = 1.59, 95% CI = 1.28, 1.97) than non-reckless drivers. In contrast, the

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reckless – drinking category were less likely to possess lower levels of education. Few differences were observed with respect to income levels across categories although compared to non-reckless drivers, chronic/chronic and severe categories were more likely to earn in the 35,000 - 69,999 range. Both chronic and chronic/severe categories of reckless drivers were more likely to be widowed/married/divorced (OR = 1.28 and 1.90, respectively) than other categories. Finally, compared to persons from the western region of the U.S., individuals from the northeast were uniformly less likely to be reckless drivers across all categories. Respondents from the south were less likely to be reckless – drinking related drivers (OR = 0.70, 95% CI = 0.58, 0.85).

Reckless Driving and Associated Antisocial Behaviors

A consistent relationship was observed across the levels of reckless driving (see Table 2) with non-reckless drivers exhibiting the lowest rates of violent and non-violent antisocial behaviors, followed by the reckless/drinking-related and chronically reckless drivers, and chronic and severe reckless drivers reporting the highest levels. Specifically, the prevalence of antisocial behaviors was typically five-to-ten times greater (and sometimes more) for respondents reporting a lifetime history of chronic and severe reckless driving compared to respondents with no such history. The most prevalent non-violent behaviors in the chronic/ severe category were staying out late (58.69%, 95% CI = 55.28%, 62.03) and cutting or not attending class (52.10%, 95% CI = 48.04%, 56.14%). Aggression and violent behaviors were also relatively prevalent in the group. For example, hitting someone so hard you could injure them (27.43%, 95% CI = 24.42%, 30.65%), bullying or pushing others around (22.70%, 95% CI = 19.76%, 25.94%), physically hurting others on purpose (21.35%, 95% CI = 18.40%, 24.63%), and swapping blows with husband/wife or boyfriend/girlfriend (20.02%, 95% CI = 17.34%, 23.00%). The least prevalent behaviors were forcing someone to have sex (1.16%, 95% CI = 0.52%, 2.56%), robbing or mugging someone (2.62%, 95%)CI = 1.85%, 3.68%), and setting fires on purpose (5.05%, 95% CI = 3.77, 6.74).

Multivariate Multinomial Logistic Regression Analysis Examining Associations between Reckless Driving and Lifetime Psychiatric Comorbidity

Table 3 summarizes results from multinomial logistic regression models that compared prevalence rates of lifetime psychiatric comorbidity for previously defined categories of reckless drivers with non-reckless drivers serving as the reference category. Recall that odds ratios are adjusted for sociodemographic factors (i.e., race, sex, education, marital status, age, income, region, and urbanicity), previously described lifetime DSM-IV psychiatric disorders including substance use disorders, and family history of antisocial behavior. With respect to substance use disorders, there were significant findings across nicotine dependence, marijuana use disorder, alcohol use disorder and cocaine dependence for all categories of reckless driving with strongest effects observed for alcohol use disorder; specifically, (AOR = 10.25, 95% CI = 8.90, 11.81) for reckless-drinking, (AOR = 3.64, 95% CI = 3.27, 4.04), for chronic reckless, and (AOR = 4.80, 95% CI = 3.91, 5.90) for chronic/ severe reckless drivers. Chronic/severe reckless drivers were approximately two-and-onehalf times more likely to have a cocaine use disorder (AOR = 2.49, 95% CI = 1.79, 3.47). Chronic reckless drivers were significantly more likely to have an amphetamine use disorder (AOR = 1.61, 95% CI = 1.15, 2.26). Although heroin dependence was associated with increased likelihood for reckless driving, the effects were not statistically significant due to low cell sizes.

Small effects were found for mood and anxiety disorders for the reckless-alcohol and chronic categories. Major depression was elevated for both of the categories (AOR = 1.16, 95% CI = 1.02, 1.32) and (AOR = 1.21, 95% CI = 1.07, 1.37). Reckless-drinking drivers were at increased risk for social (AOR = 1.34, 95% CI = 1.08, 1.67) and specific (AOR =

1.25, 95% CI = 1.06, 1.46) phobia. No significant findings were found for the chronic/severe category. All three reckless driver groups were more likely to have a family history of antisocial behavior than non-reckless drivers. With respect to personality disorders, reckless-drinking drivers were more likely to possess a diagnosis of obsessive-compulsive personality (AOR = 1.25, 95% CI = 1.06, 1.48) and antisocial personality disorder (AOR = 2.90, 95% CI = 2.30, 3.64). Chronic reckless drivers were more likely to have a diagnosis of obsessive-compulsive (AOR = 1.27, 95% CI = 1.08, 1.49), paranoid (AOR = 1.35, 95% CI = 1.07, 2.29), and antisocial (AOR = 2.50, 95% CI = 2.01, 3.10) personality disorders. Chronic/severe reckless drivers were more likely to be diagnosed with paranoid (AOR = 1.56, 95% CI = 1.07, 2.29) and antisocial (AOR = 3.35, 95% CI = 2.54, 4.42) personality disorders.

DISCUSSION

To our knowledge, this is the largest national epidemiological study examining the association between forms of reckless driving and comorbid behavioral and mental health conditions. With respect to sociodemographic patterns, the current investigation found that young men living with lower levels of educational attainment were at increased odds of being reckless drivers. Men in general, were over eight times more likely than women to report having had their drivers license suspended or revoked. Interestingly, persons born in the U.S. were over twice as likely as persons born outside of the U.S. to report reckless driving. This finding suggests that there may be something about American culture that promotes reckless driving or that persons moving to the U.S from other countries are simply less likely to report reckless driving due to fear of American law enforcement. Of course, this type of social desirability bias could extend to other variables in the study as well.

There was support for our first hypothesis that reckless driving would be positively associated with externalizing behaviors. The convergent validity for reckless driving indicators was strong. Reckless driving was significantly associated with numerous and varied forms of antisocial behavior including getting into numerous physical altercations, bullying, property destruction, lying, cruelty to animals, stealing, and harassment. Results indicate that the prevalence of antisocial behaviors among episodic-drinking and chronic reckless drivers was much higher than among non-reckless drivers and the prevalence rate among chronic/severe reckless drivers were much higher than these two forms. The second hypothesis, that severity of reckless driving whereby persons who have had their licenses suspended or revoked (chronic/severe reckless drivers) would be associated with greater intensity of these externalizing behaviors in controlled multivariate analyses was partially supported. Marijuana and cocaine use disorder along with antisocial personality disorder were elevated in this group. Family history of antisocial behavior was relatively similar across categories. Alcohol use disorder, however, had its strongest effects in association with the episodic-drinking related category. Together these findings demonstrates the problematic nature of not only reckless driving generally but that reckless driving that leads to license suspension and revocation is part and parcel of a relatively severe antisocial behavior syndrome (24-25). Clearly, greater policy emphasis on expanding comprehensive treatment of substance use disorders and psychiatric comorbidities can potentially function as a universal and selective prevention strategy for the reduction of reckless driving episodes.

Despite recognition that alcohol and substance use are associated with reckless driving, there has been a relative lack of attention paid to antisocial propensity and reckless driving. Sensation seeking, impulsivity, and disregard for other persons are features of persons who often violate the rights of others throughout the life-course. The implications of these finding suggest that policies that attenuate criminal careers and aggressive behaviors may in

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turn have a powerful effect on reducing reckless driving (26). Persons with a history of alcohol dependence have been shown to display increased levels of antisocial and aggressive behaviors and obtained more traffic violations than those individuals who did not display these personality traits (27), which is consistent with higher rates of antisocial behaviors in those individuals who had been arrested for drinking and driving (14, 24, 28-29). Prior research reported that those with fewer traffic citations had personalities characterized by social apprehensiveness, increased levels of emotional stability and self-sufficiency, and lower levels of impulsiveness, whereas those with greater traffic citations and motor vehicle accidents had increased levels of assertiveness, and perception that one is unable to control one's future (15). It is also important to note that about 75% of those who have been arrested for driving under the influence of liquor had prior involvement with the criminal justice system (28). This finding shows the overlap between drinking and driving and the general propensity toward antisocial behavior.

Limitations

Study results should be interpreted in light of several limitations. First, given that the study data are cross-sectional, temporal ordering or variables does not permit firm conclusions regarding causal determinants. Reported findings cannot clarify the etiologic relationship between forms of reckless driving and its correlates. For example, the use and abuse of alcohol may be associated with reckless driving due to its disinhibiting effects on neuroregulatory processes that facilitate executive governance in the face of risky behaviors. Further, the associations with antisocial behavior may be part of a general externalizing propensity to engage in the use and abuse of various substances. We can suggest firmly that reckless driving and externalizing psychopathology are intertwined. Prospective designs over longer swaths of time are needed to untangle the dynamics of specific externalizing behaviors and reckless driving. Another limitation is that the NESARC excludes persons under age 18 and therefore relies on retrospective respondent recall of reckless driving and other behaviors over potentially long periods of time. Underreporting or biased reporting with younger respondents recalling better than older respondents is quite possible. An additional limitation is the wording of the first item used to define reckless driving-drinking which lacked specificity and could be capturing mere risk-taking propensity. However, the adjusted analyses did substantiate the relationship of the category to possessing an alcohol use disorder. Despite these limitations, study findings offer new and important epidemiologic insights into the costly problem of reckless driving and its correlates in the United States. Finally, greater policy emphasis on expanding comprehensive treatment of substance use disorders and psychiatric comorbidities can potentially function as a universal and selective prevention strategy for the reduction of reckless driving episodes.

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Table 1

Sociodemographic Characteristics of NESARC Participants with a History of Reckless Driving, by Severity of Reckless Driving History.

Characteristic	<u>No Reckless</u> Driving (N = 33524)	Episodic - drinking related (N=3149)	<u>Chronic</u> (N=4212)	<u>Chronic/Severe</u> <u>(N = 1102)</u>	Episodic-drinking <u>related</u>	Chronic	Chronic/Severe
	% CIa	% CI	% CI	% CI	OR ^b CI	OR CI	OR CI
Sex							
Men	41.46 40.70,42.23	61.99 59.84,64.10	72.80 71.30,74.25	84.60 82.12,86.80	2.41 2.18,2.66	4.02 3.70,4.36	8.51 7.05,10.26
Women	58.54 57.77,59.30	38.01 35.90,40.16	27.20 25.75,28.70	15.40 13.20,17.88	1.00	1.00	1.00
Race							
White	68.71 65.15,72.07	85.57 83.47,87.44	74.46 71.75,76.99	74.72 70.99,78.12	1.90 1.56,2.32	1.21 1.04,1.42	1.42 1.03,1.95
African American	11.65 10.34,13.10	4.76 3.96,5.70	11.58 10.11,13.24	10.17 8.40,12.27	$0.71 \ 0.56, 0.90$	1.13 .95,1.35	1.10.78, 1.54
Native American	1.83 1.55,2.18	2.92 2.27,3.76	2.76 2.15,3.54	4.18 2.75,6.30	2.48 1.81,3.41	1.60 1.20,2.15	2.77 1.64,4.67
Asian/Hawaiian/Indian	7.04 5.95,8.32	4.39 3.52,5.48	4.55 3.77,5.49	5.11 3.57,7.25	$0.72 \ 0.48, 1.07$	0.60 0.44 ,0.83	0.33 0.15,0.73
Hispanic	12.60 10.13,15.55	5.28 4.11,6.75	9.41 7.51,11.72	10.01 7.63,13.01	1.00	1.00	1.00
Nativity							
Born in the U.S.	82.97 79.25,86.14	96.35 95.37,97.13	92.50 90.81,93.91	91.73 89.14,93.75	3.87 3.03,4.95	2.45 2.02,2.96	2.10 1.40,3.14
Born outside the U.S.	17.03 13.86,20.75	3.65 2.87, 4.63	7.50 6.09,9.19	8.27 6.25,10.86	1.00	1.00	1.00
Age (years)							
65+	18.89 18.05,19.76	7.28 6.37,8.31	7.51 6.69-8.42	4.49 3.24,6.18	$0.28 \ 0.24, 0.32$	0.26 0.23,0.31	$0.12 \ 0.08, 0.18$
50-64	21.06 20.47,21.67	21.56 19.88,23.34	21.39 19.84,23.03	18.26 15.80,21.00	0.71 0.62,0.84	0.74 0.65,0.84	0.52 0.41,0.66
35-49	29.51 28.81,30.23	35.97 34.02,37.96	36.43 34.61,38.29	38.94 35.10,42.93	0.91 0.82,1.02	$0.97\ 0.87, 1.09$	$0.90\ 0.73, 1.11$
18-34	30.53 29.57,31.51	35.20 33.09,37.36	34.67 32.84,36.55	38.31 34.55,42.23	1.00	1.00	1.00
Education							
Less than High School	16.40 15.35,17.50	7.81 6.65-9.15	14.87 13.58,16.26	17.98 15.42,20.85	0.62 0.52,0.75	1.13 1.00,1.29	1.59 1.28,1.97
High School Graduate	29.49 28.33,30.68	25.02 22.84,27.34	29.98 28.08,31.95	34.34 30.88,37.97	0.75 0.67,0.85	$1.03\ 0.93, 1.13$	1.33 1.12,1.59
Some College	54.11 52.78,55.43	67.17 64.75,69.50	55.15 53.01,57.26	47.69 44.01,51.39	1.00	1.00	1.00
Income							
<19,999	24.77 23.75,25.82	16.75 15.03,18.63	20.22 18.69,21.85	19.81 17.24,22.67	$0.94\ 0.80, 1.10$	$1.09\ 0.93, 1.27$	$1.11\ 0.83, 1.47$
20,000-34,999	20.21 19.52,20.91	17.09 15.48,18.82	20.67 19.17,22.27	24.42 21.17,27.98	$0.96\ 0.83, 1.11$	1.15 1.00,1.32	1.39 1.06,1.81
35,000-69,999	31.54 30.85,32.24	35.31 33.11,37.57	34.04 32.28,35.85	33.89 30.35,37.62	$0.99\ 0.88, 1.12$	$1.06\ 0.94, 1.21$	$1.12\ 0.88, 1.42$
70,000+	23.48 22.07,24.95	30.86 28.32,33.51	25.06 22.92,27.33	21.88 18.44,25.75	1.00	1.00	1.00

Characteristic	<u>No Reckless</u> <u>Driving</u> (N = 33524)	Episodic - drinking related (N=3149)	<u>Chronic</u> (N=4212)	<u>Chronic/Severe</u> (N = 1102)	Episodic-drinking <u>related</u>	Chronic	Chronic/Severe
	% CIa	% CI	% CI	% CI	OR ^b CI	OR CI	OR CI
Marital Status							
Never Married	20.35 19.34,21.41	21.86 19.93,23.92	21.65 20.08,23.32	22.67 19.85,25.76	$0.89\ 0.79, 1.01$	0.81 0.71,0.92	$0.79 \ 0.63 - 1.00$
Widowed/separated/ divorced	17.83 17.33,18.34	13.92 12.63,15.32	16.01 14.83,17.26 19.66 17.25,22.31	19.66 17.25,22.31	1.13 0.99,1.28	1.28 1.15,1.41	1.90 1.59,2.28
Married/Cohabitating	61.82 60.80,62.83	64.23 62.05,66.35	62.34 60.55,64.10	57.67 54.43,60.86	1.00	1.00	1.00
Urbanicity							
Urban	30.35 25.65,35.49	24.90 21.92,28.14	27.09 24.11,30.30	27.14 23.42,31.22	0.93 0.82,1.05	$0.92\ 0.80, 1.05$	$0.93\ 0.75, 1.14$
Rural	69.65 64.51,74.35	75.10 71.86,78.08	72.91 69.70,75.89	72.86 68.78,76.58	1.00	1.00	1.00
Region							
Northeast	20.89 14.36,29.38	17.15 12.62,22.90	$14.38\ 10.44, 19.49$	15.44 10.83,21.52	0.65 0.52,0.81	$0.63\ 0.50, 0.80$	$0.67 \ 0.48, 0.94$
Midwest	21.92 16.05,29.18	28.00 22.48,34.29	26.76 20.91,33.55	28.98 22.70,36.18	0.91 0.73,1.14	$1.03\ 0.83, 1.27$	$1.10\ 0.82, 1.46$
South	35.44 28.93,42.54	30.26 25.18,35.88	37.11 30.93,43.74	33.93 27.69,40.78	$0.70\ 0.58, 0.85$	0.91 0.76,1.08	$0.81 \ 0.63, 1.03$
West	21.75 15.20,30.12	24.58 19.08,31.07	21.75 16.11,28.70	21.66 16.21,28.31	1.00	1.00	1.00
^a Note: 95% confidence interval,	ırval,						

b unadjusted odds ratio

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Behavior	<u>No Reckless</u> <u>Driving</u> (N = 33524)	<u>Episodic - drinking</u> (N=3149)	<u>Chronic</u> (N=4212)	Chronic/Severe (N = 1102)	Chi-Square	P-value
	% CI	% CI	% CI	% CI		
Violent						
Force someone to have sex	0.09 0.06,0.14	0.15 0.07,0.31	$0.20\ 0.09, 0.41$	1.16 0.52,2.56	2.66	.056
Get into lots of fights that you started	1.38 1.22,1.56	7.04 6.06,8.15	6.86 5.94,7.92	13.76 11.49,16.40	41.82	<.001
Rob/mug someone or snatch a purse	0.11 0.08,0.16	0.59 0.37,0.95	0.80 0.52,1.24	2.62 1.85,3.68	13.66	<.001
Get into a fight that came to swapping blows with Husband/Wife or Boyfriend/Girlfriend	4.45 4.13,4.79	13.42 12.08,14.88	13.46 12.07,14.98	20.02 17.34,23.00	50.57	<.001
Use a weapon in a fight	1.48 1.31,1.68	6.13 5.11,7.34	6.19 5.44,7.05	11.65 9.58,14.08	40.51	<.001
Hit someone so hard that you injure them	2.99 2.73,3.27	14.83 13.34,16.45	15.12 13.77,16.58	27.43 24.42,30.65	60.96	<.001
Harass/threaten/blackmail someone	$0.74 \ 0.63, 0.87$	5.26 4.33,6.38	4.19 3.47,5.05	8.71 6.83,11.04	33.25	<.001
Bully/push people	3.56 3.29,3.85	15.06 13.67,16.56	14.23 13.03,15.53	22.70 19.76,25.94	57.78	<.001
Hurt an animal on purpose	$0.85 \ 0.74, 0.99$	5.24 4.35,6.30	4.59 3.81,5.53	7.62 5.88,9.83	35.58	<.001
Physically hurt others on purpose	2.66 2.43,2.92	14.25 12.85,15.76	10.71 9.64,11.88	21.35 18.40,24.63	51.37	<.001
Non-Violent						
Set a fire on purpose	0.48 0.39,0.61	3.90 3.13,4.87	2.50 1.97,3.17	5.05 3.77,6.74	25.67	<.001
Cut class, not go to class, leave without permission	16.53 15.91,17.18	39.01 36.97,41.09	39.17 37.35,41.01	52.10 48.04,56.14	60.10	<.001
Stay out late at night	19.83 19.03,20.66	46.65 44.59,48.71	43.23 41.35,45.13	58.69 55.28,62.03	62.84	<.001
Run away from home overnight	3.61 3.35,3.90	8.46 7.38,9.69	10.61 9.32,12.05	16.08 13.59,18.93	42.63	<.001
Often absent from school	4.46 4.18,4.76	14.98 13.44,16.67	13.77 12.42,15.25	22.85 19.62,26.43	42.82	<.001
Quit a job without knowing where to find another	8.06 7.59,8.55	22.13 20.46,23.89	23.31 21.74,24.95	32.66 29.41,36.09	57.35	<.001
More than once quit a school program without a plan	2.60 2.31,2.93	8.09 6.95,9.41	7.23 6.27,8.32	11.07 9.21,13.25	28.45	<.001
Travel around without a plan	2.02 1.84,2.23	7.56 6.47,8.82	8.18 7.18,9.30	11.79 9.55,14.47	41.33	<.001
Have no regular place to live	1.58 1.40,1.78	5.87 4.93,6.98	6.91 6.02,7.91	10.09 7.92,12.75	36.72	<.001
Live with others at least 1 month	7.98 7.40,8.59	21.21 19.43,23.10	21.94 20.33,23.64	27.11 23.65,30.88	55.16	<.001
Lie a lot	3.12 2.88,3.38	12.61 11.23,14.13	11.25 10.10,12.51	19.81 16.97,22.99	49.51	<.001
Use a false or made up name/ alias	1.25 1.11,1.41	5.39 4.58,6.34	4.61 3.73,5.69	7.58 5.79,9.87	29.30	<.001

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Behavior	$\frac{No \ Reckless}{Driving} \\ (N = 33524)$	Episodic - drinking (N=3149)	<u>Chronic</u> (N=4212)	<u>Chronic/Severe</u> (N = 1102)	Chi-Square	P-value
	% CI	1D %	% CI	% CI		
Scam/con someone for money	0.63 0.52,0.75	4.21 3.48,5.09	3.69 2.94,4.63	9.25 7.22,11.78	28.26	<.001
Destroy others' property	1.52 1.35,1.71	12.31 10.91,13.86	9.18 8.13,10.34	17.54 14.64,20.87	47.21	<.001
Fail to pay off your debts	2.31 2.09,2.56	8.98 7.85,10.26	10.09 8.93,11.37	17.95 15.15,21.14	42.80	<.001
Steal anything from others	4.80 4.40,5.23	26.30 24.43,28.26	20.49 18.92,22.15	27.68 24.49,31.11	58.73	<.001
Forge someone's signature	$1.17\ 1.01, 1.36$	6.07 5.12,7.17	4.70 3.68,5.98	7.36 5.73,9.40	28.44	<.001
Shoplift	6.59 6.14,7.08	30.91 28.70,33.22	23.52 21.76,25.38	34.76 31.18,38.53	52.22	<.001
Make money illegally	$0.90\ 0.77, 1.05$	8.30 7.16,9.60	8.21 7.22,9.33	16.38 13.64,19.55	41.50	<.001
Do something you could have been arrested for	7.36 6.86,7.89	51.73 49.43,54.01	35.61 33.73,37.54	52.31 48.33,56.27	69.29	<.001

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Table 3

Lifetime Prevalence and Multivariate Multin omial Logistic Regression Analysis Examining Associations between Reckless Driving and Lifetime Psychiatric Comorbidity.

	$\frac{No \ Reckless}{Driving} \\ (N = 33524)$	Episodic - drinking related (N=3149)	<u>Chronic</u> (N=4212)	<u>Chronic/severe</u> <u>(N = 1102)</u>	<u>Episodic – drinking</u> <u>related</u> <u>AOR</u>	<u>Chronic</u> <u>AOR</u>	<u>Chronic/severe</u> <u>AOR</u>
Comorbid Psychiatric Disorder	% CI	% CI	% CI	% CI	95% CI	95% CI	95% CI
Nicotine dependence	12.92 12.17,13.70	38.37 36.25,40.54	31.62 29.73,33.57	39.67 35.82,43.66	1.46 1.28,1.66	1.39 1.24,1.55	1.44 1.17,1.77
Marijuana use disorder	4.08 3.79,4.40	26.20 24.56,27.90	19.57 17.99,21.26	33.09 29.55,36.84	1.86 1.60,2.16	1.59 1.37,1.85	2.12 1.73,2.61
Any alcohol use disorder	18.84 17.75,19.97	81.53 79.77,83.17	60.96 58.93,62.96	73.98 70.51,77.18	10.25 8.90,11.81	3.64 3.27,4.04	$4.80\ 3.91, 5.90$
Abuse/Dependence							
Amphetamine	$0.73 \ 0.61, 0.88$	6.36 5.45,7.40	5.65 4.69,6.79	9.98 7.78,12.72	$1.04\ 0.75, 1.45$	1.61 1.15,2.26	$1.34\ 0.86, 2.09$
Opioid	$0.56\ 0.45, 0.70$	4.38 3.55,5.39	3.83 3.11,4.71	7.06 5.42,9.14	$0.96\ 0.62, 1.47$	1.11 0.72,1.71	$0.74 \ 0.46, 1.20$
Sedative	0.34 0.27,0.44	3.63 2.95,4.46	2.89 2.30,3.62	6.55 4.96,8.60	$1.19\ 0.71, 1.98$	1.15 0.67,1.98	1.32 0.67,2.56
Tranquilizer	$0.31 \ 0.24, 0.41$	3.26 2.59,4.09	2.49 1.95,3.17	6.48 4.92,8.50	$1.14\ 0.62, 2.09$	$0.94\ 0.51, 1.74$	$1.42\ 0.68, 2.99$
Inhalant/Solvent	$0.09\ 0.06, 0.14$	$1.28\ 0.89, 1.86$	0.88 0.59,1.32	1.81 1.10,2.98	1.08 0.52,2.26	0.91 0.40,2.04	$0.66\ 0.30, 1.47$
Cocaine	$1.04\ 0.91, 1.19$	8.78 7.68,10.02	6.95 6.03,7.99	17.10 14.13,20.56	1.32 1.02,1.71	1.32 1.01,1.74	2.49 1.79,3.47
Hallucinogen	$0.61 \ 0.49, 0.75$	6.12 5.17,7.24	4.06 3.27,5.03	9.15 7.14,11.66	0.97 0.67,1.41	$0.83\ 0.53, 1.29$	$0.90\ 0.59, 1.39$
Heroin	$0.06\ 0.04, 0.10$	$0.58\ 0.36, 0.94$	$0.50\ 0.31, 0.80$	1.85 1.09,3.11	2.23 0.90,5.56	1.64 0.63,4.28	3.31 0.94,11.71
Mood disorder							
Major depressive disorder	14.69 14.00,15.41	27.19 25.42,29.04	22.65 21.15,24.22	22.91 20.05,26.05	1.16 1.02,1.32	1.21 1.07,1.37	1.11 0.88,1.39
Bipolar disorder	4.26 3.96,4.59	10.88 9.76,12.11	10.71 9.42,12.17	12.28 10.23,14.67	0.92 0.76,1.11	$1.15\ 0.94, 1.41$	$0.96\ 0.72, 1.29$
Dysthymia	3.65 3.37,3.95	7.77 6.73,8.96	6.15 5.31,7.11	6.77 5.20,8.78	$0.95\ 0.74, 1.22$	$0.92\ 0.74, 1.15$	0.95 0.65,1.38
Anxiety disorder							
Panic disorder	3.47 3.20,3.76	7.41 6.43,8.53	5.63 4.77,6.63	5.31 3.71,7.55	$1.20\ 0.98, 1.46$	$1.15\ 0.92, 1.45$	$1.02\ 0.65, 1.58$
Social phobia	4.14 3.79,4.52	$10.88\ 9.64, 12.25$	6.84 5.90,7.93	6.83 5.15,8.99	1.34 1.08,1.67	0.93 0.77,1.12	$0.88\ 0.59, 1.31$
Specific phobia	8.48 7.91,9.08	16.48 14.82,18.28	11.63 10.34,13.05	11.97 10.01,14.26	1.25 1.06,1.46	1.08 0.94,1.25	$1.09\ 0.84, 1.41$
Generalized anxiety	3.56 3.24,3.92	7.56 6.49,8.79	6.17 5.25,7.24	5.15 3.77,7.01	$1.00\ 0.78, 1.27$	1.05 0.83,1.31	$0.76\ 0.49, 1.17$
Conduct disorder	$1.01\ 0.88, 1.15$	$1.23\ 0.82, 1.84$	1.44 1.00,2.07	1.27 0.67,2.38	0.72 0.42,1.23	$0.89\ 0.59, 1.34$	$0.75\ 0.38, 1.49$
Family history of antisocial behavior	19.17 18.18,20.21	41.56 39.38,43.76	31.62 29.87,33.43	39.42 35.81,43.14	1.73 1.54,1.96	1.30 1.17,1.45	1.68 1.41,2.00
Psychotic disorder	0.63 0.53,0.75	1.49 1.07,2.07	$1.28\ 0.91, 1.80$	1.41 0.81,2.45	$0.89\ 0.55, 1.43$	0.83 0.51,1.34	$0.59\ 0.28, 1.26$

	$\frac{No \ Reckless}{Driving}$ $(N = 33524)$	<u>Episodic - drinking</u> <u>related</u> (N=3149)	<u>Chronic</u> (N=4212)	$\frac{\text{Chronic/severe}}{(N = 1102)}$	<u>Episodic – drinking</u> <u>related</u> <u>AOR</u>	<u>Chronic</u> <u>AOR</u>	<u>Chronic/severe</u> <u>AOR</u>
Comorbid Psychiatric Disorder	% CI	% CI	% CI	% CI	95% CI	95% CI	95% CI
Personality disorder							
Avoidant	1.90 1.71,2.11	4.34 3.62,5.18	4.19 3.43,5.12	3.62 2.45,5.31	$0.99\ 0.70, 1.41$	$1.19\ 0.88, 1.60$	$1.19\ 0.88, 1.60\ 0.74\ 0.42, 1.32$
Dependent	$0.39\ 0.32, 0.49$	$0.89\ 0.60, 1.33$	$0.73 \ 0.43, 1.25$	$1.39\ 0.73, 2.64$	0.77 $0.39, 1.53$	$0.64\ 0.33, 1.22$	$1.13\ 0.43, 2.98$
Obsessive- compulsive	6.41 5.97,6.87	14.92 13.46,16.49	12.99 11.69,14.41	14.25 11.93,16.94	1.25 1.06,1.48	1.27 1.08,1.49	1.21 0.92,1.60
Paranoid	3.37 3.09,3.68	7.57 6.51,8.79	8.49 7.47,9.62	11.41 9.11,14.20	$1.03\ 0.81, 1.30$	1.35 1.07,1.70 1.56 1.07,2.29	1.56 1.07,2.29
Schizoid	2.47 2.24,2.73	5.73 4.83,6.77	5.43 4.66,6.32	7.06 5.40,9.17	$1.07\ 0.84, 1.38$	$1.04\ 0.81, 1.32$	$1.11\ 0.80, 1.55$
Antisocial	1.35 1,20,1.52	12.30 11.01,13.73	10.03 8.90,11.29	18.26 15.58,21.27	2.90 2.30,3.64	2.50 2.01,3.10	3.35 2.54,4.42
Histrionic	$1.19\ 1.06, 1.35$	4.50 3.77,5.37	3.67 2.92,4.59	5.76 4.45,7.44	$1.33\ 0.99, 1.79$	1.21 0.90,1.63 1.45 0.98,2.13	1.45 0.98,2.13

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