

Questions Regarding Driving
Grade 11/Year 12
Fast Track Project Technical Report
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Citation

Instrument

Loeber, R., Farrington, D.P., Stouthamer-Loeber, M., and Van Kammen, W.B. (1998). *Antisocial Behavior and Mental Health Problems: Explanatory Factors in Childhood and Adolescence*. Mahwah, NJ: Lawrence Erlbaum.

Loeber, R., and Stouthamer-Loeber, M. (1991). Pittsburgh Youth Survey (Youth Interview – Assessment IIG-7)

Report

Kersteter, S. (2004). *Questions Regarding Driving (Fast Track Project Technical Report)* [On-line]. Available: <http://www.fasttrackproject.org/>

Data Sources

Raw: C12AS

Scored: QRD12

I. Scale Description

The Questions Regarding Driving measure is a 14-item instrument taken from the Pittsburgh Youth Survey. Fast Track added the measure to the child instrument battery in study year 8. The measure assesses whether the child has ever driven and if so, how often, whether the child has a driver's license or a permit, and whose car the child drives, where the child goes when he/she uses the car, the child's experience with drinking or using drugs and driving, and the child's beliefs about drinking and driving. Only students who responded "yes" to having ever driven a car were asked questions about their driving activities. Only students who reported that they had been a passenger in a car driven by someone who had been drinking or using drugs were asked the subsequent question about frequency.

II. Report Sample

These analyses were conducted with the first cohort on the control sample (n=155) and on the normative sample (n=387, N = 463 with overlap) during the twelfth year of the study. Overall, 118 records were missing the whole measure. Forty-three were missing from the control sample (5 from Durham, 17 from Nashville, 9 from Pennsylvania, and 12 from Washington) and 105 were missing from the normative sample (14 from Durham, 39 from Nashville, 23 from Pennsylvania, and 29 from Washington).

III. Scaling

For the items in this instrument, there is no obvious scoring. Only students who responded yes to having ever driven a car were asked the subsequent questions about the frequency and their driving experiences. Only students who reported that they had been a passenger in a car driven by someone who had been drinking or using drugs were asked the subsequent question about frequency.

The design of this measure allows certain questions to be skipped if the respondent answered “no” to the previous question. If the child answered “no” to question 1, he/she answered question 2, then skipped to question 11. If the child answered “no” to question 11, he/she skipped to question 13. Although no values were entered for the skipped questions, these are not considered missing data; rather, because of the “no” response to the preceding question (question 1 or 11), the responses to questions 2 through 10 and question 12, respectively, are actually “no.” For the purposes of these technical report analyses, if a respondent answered “no” to question 1, his/her answers to questions 2 through 10 were considered to be “no” and coded as a “0.” Likewise, if a respondent answered “no” to question 11, his/her answer to question 12 was considered to be “no” and coded as a “0.”

Note that for question 3 (C11AS7), 0 represented never, 1 represented every day, 2 represented once a week or more, and 3 represented less than once a week. For these analyses, the responses for question 3 were recoded (C11AS7r) to show an increasing scale of frequency, as follows: 0 represents never, 1 represents less than once a week, 2 represents once a week or more, and 3 represents every day.

IV. Differences Between Groups

Chi-square tests of independence were used to assess the differences between the high-risk control and normative groups for question 1 (Have you ever driven a car?), question 4 (Whose car do you use when you drive?), question 5 (Where do you usually go when you have the use of the car?), question 6 (Have you ever driven a car after you had been drinking or had used drugs?), question 8 (Have you ever caused an accident or done damage to a car?), question 10 (Was anyone injured or did anyone die as a result?), and question 11 (Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?). The design of the measure allowed for questions 4, 5, and 10 to be broken down as follows, so that yes/no responses were possible.

Question 4 – Whose car do you use when you drive?

- Whose car do you use when you drive – parents’? (C12AS8)
- Whose car do you use when you drive – other relative’s? (C12AS9)
- Whose car do you use when you drive – own? (C12AS10)
- Whose car do you use when you drive – friend’s? (C12AS11)
- Whose car do you use when you drive – other? (C12AS12)

Question 5 – Where do you usually go when you have the use of the car?

- Where do you usually go when you have the use of the car – just cruise around? (C12AS14)
- Where do you usually go when you have the use of the car – party? (C12AS15)
- Where do you usually go when you have the use of the car – friend’s place? (C12AS16)
- Where do you usually go when you have the use of the car – work? (C12AS17)
- Where do you usually go when you have the use of the car – school? (C12AS18)
- Where do you usually go when you have the use of the car – other? (C12AS19)

Question 10 – Was anyone injured or did anyone die as a result?

- Was anyone injured or did anyone die as a result – no injury or death? (C12AS25)
- Was anyone injured or did anyone die as a result – physical injury to self? (C12AS26)
- Was anyone injured or did anyone die as a result – physical injury to others? (C12AS28)
- Was anyone injured or did anyone die as a result – death? (C12AS30)

It should be noted that the respondents were asked to “check all that apply” for questions 4 and 5.

Because there were no “yes” responses to C12AS30 (Was anyone injured or did anyone die as a result – death?) for either the high-risk control group or the normative group, chi-square analyses were not performed for these questions.

Chi Square Test Results by Group						
Variable	0=No 1=Yes		DF	Chi Square Statistic	P-value	N
	Control Proportions	Normative Proportions				
C12AS5 – Have you ever driven a car?	0.90	0.86	1	1.52	0.218	345
C12AS8 – Whose car do you use when you drive – parents’?	0.37	0.42	1	1.20	0.273	282
C12AS9 – Whose car do you use when you drive – other relative’s?	0.22	0.17	1	1.36	0.244	282
C12AS10 – Whose car do you use when you drive – own?	0.28	0.37	1	2.55	0.110	282
C12AS11 – Whose car do you use when you drive – friend’s?	0.24	0.13	1	6.83	0.009	282
C12AS12 – Whose car do you use when you drive – other?	0.08	0.05	1	0.55	0.458	282
C12AS14 – Where do you usually go when you have the use of the car – jus cruise around?	0.45	0.39	1	1.29	0.256	282
C12AS15 – Where do you usually go when you have the use of the car – party?	0.10	0.08	1	0.11	0.736	282
C12AS16 – Where do you usually go when you have the use of the car – friend’s place?	0.33	0.33	1	0.01	0.930	282
C12AS17 – Where do you usually go when you have the use of the car – work?	0.23	0.33	1	5.18	0.023	282
C12AS18 – Where do you usually go when you have the use of the car – school?	0.20	0.31	1	4.66	0.031	282
C12AS19 – Where do you usually go when you have the use of the car – other?	0.31	0.35	1	0.29	0.591	282
C12AS21 – Have you ever driven a car after you had been drinking or had used drugs?	0.08	0.04	1	4.42	0.036	344
C12AS23 – Have you ever caused an accident or done damage to a car?	0.11	0.12	1	0.19	0.662	344
C12AS25 – Was anyone injured or did anyone die as a result – no injury or death?	0.09	0.11	1	0.52	0.470	344
C12AS26 – Was anyone injured or did anyone die as a result – physical injury to self?	0.01	0.01	1	0.29	0.591	344
C12AS28 – Was anyone injured or did anyone die as a result – physical injury to others?	0.01	0.00	1	0.29	0.591	344
C12AS31 – Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.23	0.13	1	9.59	0.020	344

Five of the items tested showed significant chi-square statistics: question 4 – Whose car do you use when you drive - friend’s (C12AS11), question 5 – Where do you usually go when you have the use of the car - work (C12AS17), question 5 – Where do you usually go when you have the use of the car - school (C12AS18), question 6 – Have you ever driven a car after you had been drinking or had used drugs (C12AS21), and question 11 – Have you ever been a passenger in a car driven by someone who had been drinking or had used drugs prior to driving (C12AS31).

With χ^2 (1, N = 282) = 6.8338, p = 0.0089, the hypothesis of independence between risk category (normative or control) and C12AS11 (Whose car do you use when you drive – friend’s?) was rejected for

these data. Almost 24 percent of the high-risk control group reported that when they drive, they sometimes drive a friend's car as compared to only about 12 percent of the normative group.

With $\chi^2 (1, N = 282) = 5.1801, p = 0.0228$, the hypothesis of independence between risk category (normative or control) and C12AS17 (Where do you usually go when you have the use of the car – work?) was rejected for these data. Almost 36 percent of the normative group reported that when they have the use of the car, they usually go to work, as compared to about 23 percent of the high-risk control group.

With $\chi^2 (1, N = 282) = 4.6617, p = 0.0308$, the hypothesis of independence between risk category (normative or control) and C12AS18 (Where do you usually go when you have the use of the car – school?) was rejected for these data. Almost 33 percent of the normative group reported that when they had the use of the car, they usually went to school, as compared to 20 percent of the high-risk control group.

With $\chi^2 (1, N = 344) = 4.4160, p = 0.0356$, the hypothesis of independence between risk category (normative or control) and C12AS21 (Have you ever driven a car after you had been drinking or had used drugs?) was rejected for these data. Eight percent of the high-risk control group reported that they had driven a car after they had been drinking or had used drugs, as compared to only three percent of the normative group.

With $\chi^2 (1, N = 344) = 9.5936, p = 0.0020$, the hypothesis of independence between risk category (normative or control) and C12AS31 (Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?) was rejected for these data. Twenty-three percent of the high-risk control sample reported that they had been passengers in a car driven by someone who had been drinking or had used drugs prior to driving, as compared to about 11 percent of the normative sample.

Chi-square tests were also performed on question 2 (C12AS6 – Do you have a driver's license or a permit?). For this question, 0 = no, 1 = license, and 2 = permit. The frequency distribution of item 2 (C12AS6) among the control and normative samples was:

Table of C12AS6 by group			
C12AS6 (Do you have a driver's license or permit?)	Group		Total
Frequency Percent Row Percent Column Percent	Control	Normative	
0 (no)	60 17.44 36.59 53.57	104 30.23 63.41 44.83	164 47.67
1 (license)	33 9.59 26.61 29.46	91 26.45 73.39 39.22	124 36.05
2 (permit)	19 5.52 33.93 16.96	37 10.76 66.07 15.95	56 16.28
Total	112 32.56	232 67.44	344 100.00
Frequency Missing = 119			

With χ^2 (2, N = 345) = 3.2553, p = 0.1964, the hypothesis of independence between risk category (normative or control) and question 2 was not rejected for these data.

T-tests were used to examine group differences for question 3 (C12AS7r – In the past year, how often have you driven a car?), question 7 (C12AS22 – In the past year, how often have you driven a car after you had been drinking or had used drugs?), question 9 (C12AS24 – How many times have you caused an accident or done damage to a car?), question 12 (C12AS32 – In the past year, how many times have you been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?), and question 13 (C12AS33 – After how many drinks do you think it is unsafe to drive?). Note that for question 3, 0 represents never, 1 represents less than once a week, 2 represents once a week or more, and 3 represents every day. For the other questions, respondents entered the actual number of occurrences. Analyses revealed no significant differences between the normative youth and their high-risk control counterparts for these five items.

Comparison of Variable Means for Normative and Control							
Variable	Normative		Control		DF	t Value	Pr > t
	Mean	Std Dev	Mean	Std Dev			
C12AS7r – In the past year, how often have you driven a car?	1.86	1.16	1.72	1.08	342	-1.03	0.3026
C12AS22 – In the past year, how often have you driven a car after you had been drinking or had used drugs?	0.20	1.61	0.37	2.16	343	0.81	0.4185
C12AS24 – How many times have you caused an accident or done damage to a car?	0.17	0.59	0.14	0.42	342	-0.59	0.5585
C12AS32 – In the past year, how many times have you been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.80	4.08	1.09	3.46	343	0.65	0.5159
C12AS33 – After how many drinks do you think it is unsafe to drive?	1.95	1.47	2.12	2.35	342	0.81	0.4178

V. Recommendations for Use

Analysts should note that the skip patterns used for this measure resulted in the need to recode the data to get an accurate number of “no” responses and missing. As described earlier, the design of this measure allows certain questions to be skipped if the respondent answered “no” to the previous question. If the child answered “no” to question 1, he/she answered question 2, then skipped to question 11. If the child answered “no” to question 11, he/she skipped to question 13. Although no values were entered for the skipped questions, these are not considered missing data; rather, because of the “no” response to the preceding question (question 1 or 11), the responses to questions 2 through 10 and question 12, respectively, are actually “no.” For the purposes of these technical report analyses, if a respondent answered “no” to question 1, his/her answers to questions 2 through 10 were considered to be “no” and coded as a “0.” Likewise, if a respondent answered “no” to question 11, his/her answer to question 12 was considered to be “no” and coded as a “0.”

Analysts should also note that while respondents entered the actual number of occurrences for question 7 (C12AS22), question 9 (C12AS24), question 12 (C12AS32), and question 13 (C12AS33), the allowed responses for question 3 (C12AS7 – In the past year, how often have you driven a car?) were as follows: 0 = never, 1 = every day, 2 = once a week or more, and 3 = less than once a week. Because this does not follow a pattern of increasing frequency of occurrences as numbered response increases, responses were recoded as follows: 0 = never, 1 = less than once a week, 2 = once a week or more, and 3 = every day.

Additionally, analysts should be aware that although the question was phrased as a yes/no question, the allowed responses for question 2 (C12AS6 – Do you have a drivers license or permit?) were 0 = no, 1 = license, and 2 = permit.

V1. Item and Scale Means and SD's

Descriptive Statistics for High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C12AS5	Have you ever driven a car?	112	0.90	0.30	0.00	1.00
C12AS8	Whose car do you use when you drive – parents' suicide?	93	0.37	0.48	0.00	1.00
C12AS9	Whose car do you use when you drive – other relative's?	93	0.22	0.41	0.00	1.00
C12AS10	Whose car do you use when you drive – own?	93	0.28	0.45	0.00	1.00
C12AS11	Whose car do you use when you drive – friend's?	93	0.24	0.43	0.00	1.00
C12AS12	Whose car do you use when you drive – other?	93	0.08	0.27	0.00	1.00
C12AS14	Where do you usually go when you have the use of the car – just cruise around?	93	0.45	0.50	0.00	1.00
C12AS15	Where do you usually go when you have the use of the car – party?	93	0.10	0.30	0.00	1.00
C12AS16	Where do you usually go when you have the use of the car – friend's place?	93	0.33	0.47	0.00	1.00
C12AS17	Where do you usually go when you have the use of the car – work?	93	0.23	0.42	0.00	1.00
C12AS18	Where do you usually go when you have the use of the car – school?	93	0.20	0.41	0.00	1.00
C12AS19	Where do you usually go when you have the use of the car – other?	93	0.31	0.47	0.00	1.00

Descriptive Statistics for High Risk Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C12AS21	Have you ever driven a car after you had been drinking or had used drugs?	111	0.08	0.27	0.00	1.00
C12AS22	In the past year, how often have you driven a car after you had been drinking or had used drugs?	112	0.37	2.16	0.00	20.00
C12AS23	Have you ever caused an accident or done damage to a car?	111	0.11	0.31	0.00	1.00
C12AS24	How many times have you caused an accident or done damage to a car?	111	0.14	0.42	0.00	2.00
C12AS25	Was anyone injured or did anyone die as a result – no injury or death?	111	0.09	0.29	0.00	1.00
C12AS26	Was anyone injured or did anyone die as a result – physical injury to self?	111	0.01	0.09	0.00	1.00
C12AS28	Was anyone injured or did anyone die as a result – physical injury to others?	111	0.01	0.09	0.00	1.00
C12AS30	Was anyone injured or did anyone die as a result – death?	112	0.00	0.00	0.00	0.00
C12AS31	Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	111	0.23	0.43	0.00	1.00
C12AS32	In the past year, how many times have you been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	112	1.09	3.46	0.00	30.00
C12AS33	After how many drinks do you think it is unsafe to drive?	111	2.12	2.35	1.00	22.00

Descriptive Statistics for Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C12AS5	Have you ever driven a car?	282	0.86	0.35	0.00	1.00
C12AS8	Whose car do you use when you drive – parents' suicide?	228	0.42	0.49	0.00	1.00
C12AS9	Whose car do you use when you drive – other relative's?	228	0.17	0.38	0.00	1.00
C12AS10	Whose car do you use when you drive – own?	228	0.37	0.48	0.00	1.00
C12AS11	Whose car do you use when you drive – friend's?	228	0.13	0.33	0.00	1.00
C12AS12	Whose car do you use when you drive – other?	228	0.05	0.22	0.00	1.00
C12AS14	Where do you usually go when you have the use of the car – just cruise around?	228	0.39	0.49	0.00	1.00
C12AS15	Where do you usually go when you have the use of the car – party?	228	0.08	0.28	0.00	1.00
C12AS16	Where do you usually go when you have the use of the car – friend's place?	228	0.33	0.47	0.00	1.00
C12AS17	Where do you usually go when you have the use of the car – work?	228	0.33	0.47	0.00	1.00
C12AS18	Where do you usually go when you have the use of the car – school?	228	0.31	0.46	0.00	1.00
C12AS19	Where do you usually go when you have the use of the car – other?	228	0.35	0.48	0.00	1.00
C12AS21	Have you ever driven a car after you had been drinking or had used drugs?	281	0.04	0.19	0.00	1.00
C12AS22	In the past year, how often have you driven a car after you had been drinking or had used drugs?	282	0.18	1.48	0.00	20.00
C12AS23	Have you ever caused an accident or done damage to a car?	281	0.12	0.32	0.00	1.00
C12AS24	How many times have you caused an accident or done damage to a car?	281	0.16	0.56	0.00	6.00
C12AS25	Was anyone injured or did anyone die as a result – no injury or death?	281	0.11	0.31	0.00	1.00
C12AS26	Was anyone injured or did anyone die as a result – physical injury to self?	281	0.01	0.08	0.00	1.00
C12AS28	Was anyone injured or did anyone die as a result – physical injury to others?	281	0.00	0.06	0.00	1.00
C12AS30	Was anyone injured or did anyone die as a result – death?	282	0.00	0.00	0.00	0.00
C12AS31	Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	281	0.13	0.33	0.00	1.00
C12AS32	In the past year, how many times have you been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	282	0.78	3.77	0.00	50.00
C12AS33	After how many drinks do you think it is unsafe to drive?	281	1.91	1.41	1.00	11.00

VII. Scale Correlations

Correlation for Full Sample

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations								
	C12AS5	C12AS6	C12AS7r	C12AS8	C12AS9	C12AS10	C12AS11	C12AS12
C12AS5 – Have you ever driven a car?	1.000 0.000 345	0.362 0.000 344	0.622 0.000 344	. . 282	. . 282	. . 282	. . 282	. . 282
C12AS6 – Do you have a drivers license or permit?	0.362 0.000 344	1.000 0.000 344	0.504 0.000 343	0.155 0.009 281	-0.098 0.101 281	0.180 0.002 281	-0.171 0.004 281	-0.104 0.081 281
C12AS7r– In the past year, how often have you driven a car? (recoded)	0.622 0.000 344	0.504 0.000 343	1.000 0.000 344	-0.172 0.004 282	-0.255 0.000 282	0.602 0.000 282	-0.230 0.000 282	-0.120 0.045 282
C12AS8 – Whose car do you use when you drive – parents’?	. . 282	0.155 0.009 281	-0.172 0.004 282	1.000 0.000 282	-0.105 0.078 282	-0.438 0.000 282	-0.141 0.018 282	-0.212 0.000 282
C12AS9 – Whose car do you use when you drive – other relative’s?	. . 282	-0.098 0.101 281	-0.255 0.000 282	-0.105 0.078 282	1.000 0.000 282	-0.297 0.000 282	-0.072 0.230 282	-0.118 0.049 282
C12AS10 – Whose car do you use when you drive – own?	. . 282	0.180 0.002 281	0.602 0.000 282	-0.438 0.000 282	-0.297 0.000 282	1.000 0.000 282	-0.291 0.000 282	-0.183 0.002 282
C12AS11 – Whose car do you use when you drive – friend’s?	. . 282	-0.171 0.004 281	-0.230 0.000 282	-0.141 0.018 282	-0.072 0.230 282	-0.291 0.000 282	1.000 0.000 282	-0.027 0.654 282
C12AS12 – Whose car do you use when you drive – other?	. . 282	-0.104 0.081 281	-0.120 0.045 282	-0.212 0.000 282	-0.118 0.049 282	-0.183 0.002 282	-0.027 0.654 282	1.000 0.000 282
C12AS14 – Where do you usually go when you have the use of the car – just cruise around?	. . 282	-0.164 0.006 281	-0.187 0.002 282	-0.028 0.642 282	0.242 0.000 282	-0.201 0.001 282	0.164 0.006 282	-0.026 0.658 282
C12AS15 – Where do you usually go when you have the use of the car – party?	. . 282	0.056 0.350 281	0.147 0.014 282	-0.033 0.586 282	-0.014 0.813 282	0.116 0.053 282	0.038 0.527 282	-0.027 0.657 282
C12AS16 – Where do you usually go when you have the use of the car – friend’s place?	. . 282	0.178 0.003 281	0.408 0.000 282	-0.169 0.005 282	-0.154 0.010 282	0.416 0.000 282	-0.079 0.186 282	-0.086 0.150 282
C12AS17 – Where do you usually go when you have the use of the car – work?	. . 282	0.211 0.000 281	0.538 0.000 282	-0.118 0.048 282	-0.195 0.001 282	0.504 0.000 282	-0.229 0.000 282	-0.076 0.204 282
C12AS18 – Where do you usually go when you have the use of the car – school?	. . 282	0.083 0.166 281	0.464 0.000 282	-0.148 0.013 282	-0.151 0.011 282	0.481 0.000 282	-0.187 0.002 282	-0.062 0.300 282
C12AS19 – Where do you usually go when you have the use of the car – other?	. . 282	-0.020 0.738 281	-0.119 0.046 282	0.189 0.002 282	-0.033 0.583 282	-0.195 0.001 282	-0.035 0.563 282	0.105 0.077 282
C12AS21 – Have you ever driven a car after you had been drinking or had used drugs?	0.086 0.113 344	0.038 0.480 343	0.615 0.256 343	-0.124 0.038 281	-0.064 0.287 281	0.180 0.003 281	0.036 0.544 281	0.079 0.186 281
C12AS22 – In the past year, how often have you driven a car after you had been drinking or had used drugs?	0.054 0.317 345	0.121 0.025 344	0.074 0.170 344	-0.119 0.045 282	-0.061 0.308 282	0.119 0.046 282	0.053 0.378 282	-0.016 0.791 282

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations								
	C12AS5	C12AS6	C12AS7r	C12AS8	C12AS9	C12AS10	C12AS11	C12AS12
C12AS23 – Have you ever caused an accident or done damage to a car?	0.143 0.008 344	0.133 0.014 343	0.157 0.004 343	0.015 0.805 281	-0.063 0.294 281	0.160 0.007 281	-0.044 0.464 281	-0.051 0.399 281
C12AS24 – How many times have you caused an accident or done damage to a car?	0.115 0.033 344	0.083 0.125 343	0.088 0.104 343	-0.041 0.491 281	-0.054 0.366 281	0.170 0.004 281	-0.059 0.327 281	-0.020 0.742 281
C12AS25 – Was anyone injured or did anyone die as a result – no injury or death?	0.135 0.012 344	0.136 0.012 343	0.150 0.006 343	0.043 0.469 281	-0.050 0.407 281	0.143 0.016 281	-0.031 0.603 281	-0.091 0.128 281
C12AS26 – Was anyone injured or did anyone die as a result – physical injury to self?	0.030 0.583 344	-0.019 0.722 343	0.081 0.137 343	-0.070 0.239 281	-0.039 0.511 2581	0.028 0.637 281	-0.036 0.543 281	0.156 0.009 281
C12AS28 – Was anyone injured or did anyone die as a result – physical injury to others?	0.030 0.583 344	0.033 0.546 343	-0.021 0.698 343	-0.050 0.406 281	-0.028 0.643 281	0.083 0.166 281	-0.026 0.667 281	-0.015 0.800 281
C12AS30 – Was anyone injured or did anyone die as a result – death?	. . 345	. . 344	. . 344	. . 282	. . 282	. . 282	. . 282	. . 282
C12AS31 – Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.113 0.036 344	-0.022 0.690 343	-0.010 0.858 343	-0.063 0.295 281	-0.009 0.880 281	-0.082 0.173 281	0.227 0.000 281	0.046 0.440 281
C12AS32 – In the past year, how many times have you been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.071 0.186 345	0.109 0.042 344	0.030 0.580 344	-0.040 0.505 282	-0.087 0.146 282	0.039 0.510 282	0.127 0.033 282	0.105 0.078 282
C12AS33 – After how many drinks do you think it is unsafe to drive?	0.029 0.587 344	-0.029 0.587 343	-0.035 0.515 343	0.041 0.496 281	-0.012 0.843 281	-0.019 0.756 281	0.045 0.453 281	-0.066 0.267 281

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations							
	C12AS14	C12AS15	C12AS16	C12AS17	C12AS18	C12AS19	C12AS21
C12AS5 – Have you ever driven a car?	. 282	. 282	. 282	. 282	. 282	. 282	0.086 0.113 344
C12AS6 – Do you have a drivers license or permit?	-0.164 0.006 281	0.056 0.350 281	0.176 0.003 281	0.211 0.000 281	0.083 0.166 281	-0.020 0.738 281	0.038 0.480 343
C12AS7r – In the past year, how often have you driven a car? (recoded)	-0.187 0.002 282	0.147 0.014 282	0.408 0.000 282	0.538 0.000 282	0.464 0.000 282	-0.119 0.046 282	0.062 0.256 343
C12AS8 – Whose car do you use when you drive – parents’?	-0.028 0.642 282	-0.033 0.586 282	-0.169 0.005 282	-0.118 0.048 282	-0.148 0.013 282	0.189 0.002 282	-0.124 0.038 281
C12AS9 – Whose car do you use when you drive – other relative’s?	0.242 0.000 282	-0.014 0.813 282	-0.154 0.010 282	-0.195 0.001 282	-0.151 0.011 282	-0.033 0.583 282	-0.064 0.287 281
C12AS10 – Whose car do you use when you drive – own?	-0.201 0.001 282	0.116 0.053 282	0.416 0.000 282	0.504 0.000 282	0.481 0.000 282	-0.195 0.001 282	0.180 0.003 281
C12AS11 – Whose car do you use when you drive – friend’s?	0.164 0.006 282	0.038 0.527 282	-0.079 0.186 282	-0.229 0.000 282	-0.187 0.002 282	-0.035 0.563 282	0.036 0.544 281
C12AS12 – Whose car do you use when you drive – other?	-0.026 0.658 282	-0.027 0.657 282	-0.086 0.150 282	-0.076 0.204 282	-0.062 0.300 282	0.105 0.077 282	0.079 0.186 281
C12AS14 – Where do you usually go when you have the use of the car – just cruise around?	1.000 282	0.277 0.000 282	-0.052 0.384 282	-0.140 0.019 282	-0.092 0.124 282	-0.414 0.000 282	0.079 0.186 281
C12AS15 – Where do you usually go when you have the use of the car – party?	0.277 0.000 282	1.000 282	0.306 0.000 282	0.164 0.006 282	0.243 0.000 282	-0.115 0.054 282	0.158 0.008 281
C12AS16 – Where do you usually go when you have the use of the car – friend’s place?	-0.052 0.384 282	0.306 0.000 282	1.000 282	0.339 0.000 282	0.377 0.000 282	-0.202 0.001 282	0.217 0.000 281
C12AS17 – Where do you usually go when you have the use of the car – work?	-0.140 0.019 282	0.164 0.006 282	0.339 0.000 282	1.000 282	0.480 0.000 282	-0.270 0.000 282	0.022 0.717 281
C12AS18 – Where do you usually go when you have the use of the car – school?	-0.092 0.124 282	0.243 0.000 282	0.377 0.000 282	0.480 0.000 282	1.000 282	-0.133 0.026 282	-0.036 0.551 281
C12AS19 – Where do you usually go when you have the use of the car – other?	-0.414 0.000 282	-0.115 0.054 282	-0.202 0.001 282	-0.270 0.000 282	-0.133 0.026 282	1.000 282	-0.093 0.120 281
C12AS21 – Have you ever driven a car after you had been drinking or had used drugs?	0.079 0.186 281	0.158 0.008 281	0.217 0.000 281	0.022 0.717 281	-0.036 0.551 281	-0.093 0.120 281	1.000 344
C12AS22 – In the past year, how often have you driven a car after you had been drinking or had used drugs?	0.129 0.030 282	0.153 0.010 282	0.152 0.011 282	0.035 0.557 282	-0.002 0.978 282	-0.096 0.109 282	0.633 0.000 344
C12AS23 – Have you ever caused an accident or done damage to a car?	-0.090 0.134 281	0.034 0.576 281	0.209 0.000 281	0.187 0.002 281	0.096 0.107 281	0.030 0.622 281	0.217 0.000 344

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations							
	C12AS14	C12AS15	C12AS16	C12AS17	C12AS18	C12AS19	C12AS21
C12AS24 – How many times have you caused an accident or done damage to a car?	-0.036 0.543 281	0.087 0.146 281	0.173 0.004 281	0.177 0.003 281	0.065 0.278 281	0.010 0.865 281	0.241 0.000 344
C12AS25 – Was anyone injured or did anyone die as a result – no injury or death?	-0.088 0.140 281	0.006 0.920 281	0.217 0.000 281	0.698 0.005 281	0.097 0.106 281	0.031 0.608 281	0.146 0.007 344
C12AS26 – Was anyone injured or did anyone die as a result – physical injury to self?	-0.069 0.246 281	-0.026 0.659 281	-0.061 0.312 281	0.034 0.569 281	0.040 0.500 281	0.030 0.620 281	-0.017 0.755 344
C12AS28 – Was anyone injured or did anyone die as a result – physical injury to others?	0.073 0.223 281	0.191 0.001 281	0.084 0.162 281	0.089 0.139 281	-0.037 0.529 281	-0.042 0.479 281	0.346 0.000 344
C12AS30 – Was anyone injured or did anyone die as a result – death?	. . . 282	. . . 282	. . . 282	. . . 282	. . . 282	. . . 282	. . . 344
C12AS31 – Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.138 0.021 281	0.027 0.647 281	-0.058 0.331 281	-0.118 0.049 281	-0.177 0.003 281	-0.015 0.808 281	0.296 0.000 344
C12AS32 – In the past year, how many times have you been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.108 0.071 282	0.110 0.065 282	0.034 0.823 282	-0.036 0.548 282	-0.124 0.037 282	-0.009 0.875 282	0.407 0.000 344
C12AS33 – After how many drinks do you think it is unsafe to drive?	0.098 0.100 281	0.153 0.010 281	0.029 0.631 281	-0.034 0.567 281	0.028 0.642 281	0.001 0.983 281	0.076 0.158 344

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations							
	C12AS22	C12AS23	C12AS24	C12AS25	C12AS26	C12AS28	C12AS30
C12AS5 – Have you ever driven a car?	0.054 0.317 345	0.143 0.008 344	0.115 0.033 344	0.135 0.012 344	0.030 0.583 344	0.030 0.583 344	. . 345
C12AS6 – Do you have a drivers license or permit?	0.121 0.025 344	0.133 0.014 343	0.083 0.125 343	0.136 0.012 343	-0.019 0.722 343	0.033 0.546 343	. . 344
C12AS7r– In the past year, how often have your driven a car? (recoded)	0.074 0.170 344	0.157 0.004 343	0.088 0.104 343	0.150 0.006 343	0.081 0.137 343	-0.021 0.698 343	. . 344
C12AS8 – Whose car do you use when you drive – parents’?	-0.119 0.045 282	0.015 0.805 281	-0.041 0.491 281	0.043 0.469 281	-0.070 0.239 281	-0.050 0.406 28158	. . 282
C12AS9 – Whose car do you use when you drive – other relative’s?	-0.061 0.308 282	-0.063 0.294 281	-0.054 0.366 281	-0.050 0.407 281	-0.039 0.511 281	-0.028 0.643 281	. . 282
C12AS10 – Whose car do you use when you drive – own?	0.119 0.046 282	0.160 0.007 281	0.170 0.004 281	0.143 0.016 281	0.028 0.637 281	0.083 0.166 281	. . 282
C12AS11 – Whose car do you use when you drive – friend’s?	0.053 0.378 282	-0.044 0.464 281	-0.059 0.327 281	-0.031 0.603 281	-0.036 0.543 281	-0.026 0.667 281	. . 282
C12AS12 – Whose car do you use when you drive – other?	-0.016 0.761 282	-0.051 0.399 281	-0.020 0.742 281	-0.091 0.128 281	0.156 0.009 281	-0.015 0.800 281	. . 282
C12AS14 – Where do you usually go when you have the use of the car – just cruise around?	0.129 0.030 282	-0.090 0.134 281	-0.036 0.543 281	-0.088 0.140 281	-0.069 0.246 281	0.073 0.223 281	. . 282
C12AS15 – Where do you usually go when you have the use of the car – party?	0.153 0.010 282	0.034 0.576 281	0.087 0.146 281	0.006 0.920 281	-0.026 0.659 281	0.191 0.001 281	. . 282
C12AS16 – Where do you usually go when you have the use of the car – friend’s place?	0.152 0.011 282	0.209 0.000 281	0.173 0.004 281	0.217 0.000 281	-0.061 0.312 281	0.084 0.162 281	. . 282
C12AS17 – Where do you usually go when you have the use of the car – work?	0.035 0.557 282	0.187 0.002 281	0.177 0.003 281	0.169 0.005 281	0.034 0.569 281	0.089 0.139 281	. . 282
C12AS18 – Where do you usually go when you have the use of the car – school?	-0.002 0.978 282	0.096 0.107 281	0.065 0.278 281	0.097 0.106 281	0.040 0.500 281	-0.038 0.529 281	. . 282
C12AS19 – Where do you usually go when you have the use of the car – other?	-0.096 0.109 282	0.030 0.622 281	0.010 0.865 281	0.031 0.608 281	0.030 0.620 281	-0.042 0.479 281	. . 282
C12AS21 – Have you ever driven a car after you had been drinking or had used drugs?	0.633 0.000 344	0.217 0.000 344	0.241 0.000 344	0.146 0.007 344	-0.017 0.755 344	0.346 0.000 344	. . 344
C12AS22 – In the past year, how often have you driven a car after you had been drinking or had used drugs?	1.000 345	0.142 0.008 344	0.179 0.001 344	0.102 0.059 344	-0.011 0.844 344	0.201 0.000 344	. . 345
C12AS23 – Have you ever caused an accident or done damage to a car?	0.142 0.008 344	1.000 344	0.805 0.000 344	0.944 0.000 344	0.208 0.000 344	0.208 0.000 344	. . 344

Pearson Correlation Coefficients							
Prob > r under H0: Rho=0							
Number of Observations							
	C12AS22	C12AS23	C12AS24	C12AS25	C12AS26	C12AS28	C12AS30
C12AS24 – How many times have you caused an accident or done damage to a car?	0.179 0.001 344	0.805 0.000 344	1.000 344	0.679 0.000 344	0.261 0.000 344	0.402 0.000 344	. . 344
C12AS25 – Was anyone injured or did anyone die as a result – no injury or death?	0.102 0.059 344	0.944 0.000 344	0.679 0.000 344	1.000 344	-0.027 0.624 344	-0.027 0.624 344	. . 344
C12AS26 – Was anyone injured or did anyone die as a result – physical injury to self?	-0.011 0.844 344	0.208 0.000 344	0.261 0.000 344	-0.027 0.624 344	1.000 344	-0.006 0.914 344	. . 344
C12AS28 – Was anyone injured or did anyone die as a result – physical injury to others?	0.201 0.000 344	0.208 0.000 344	0.402 0.000 344	-0.027 0.624 344	-0.006 0.914 344	1.000 344	. . 344
C12AS30 – Was anyone injured or did anyone die as a result – death?	. . 345	. . 344	. . 344	. . 344	. . 344	. . 344	. . 345
C12AS31 – Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.308 0.000 344	0.100 0.067 344	0.180 0.001 344	0.066 0.219 344	0.076 0.161 344	0.076 0.161 344	. . 344
C12AS32 – In the past year, how many times have you been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.458 0.000 345	0.172 0.001 344	0.321 0.000 344	0.043 0.423 344	0.081 0.135 344	0.474 0.000 344	. . 345
C12AS33 – After how many drinks do you think it is unsafe to drive?	0.141 0.009 344	0.089 0.099 344	0.056 0.297 344	0.078 0.151 344	0.021 0.696 344	0.042 0.433 344	. . 344

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations			
	C12AS31	C12AS32	C12AS33
C12AS5 – Have you ever driven a car?	0.113 0.036 344	0.071 0.186 345	0.029 0.587 344
C12AS6 – Do you have a drivers license or permit?	-0.022 0.690 343	0.109 0.042 344	-0.029 0.587 343
C12AS7r– In the past year, how often have you driven a car? (recoded)	-0.010 0.858 343	0.030 0.580 344	-0.035 0.515 343
C12AS8 – Whose car do you use when you drive – parents’?	-0.063 0.295 281	-0.040 0.505 282	0.041 0.496 281
C12AS9 – Whose car do you use when you drive – other relative’s?	-0.009 0.880 281	-0.087 0.146 282	-0.012 0.843 281
C12AS10 – Whose car do you use when you drive – own?	-0.082 0.173 281	0.039 0.510 282	-0.019 0.756 281
C12AS11 – Whose car do you use when you drive – friend’s?	0.227 0.000 281	0.127 0.033 282	0.045 0.453 281
C12AS12 – Whose car do you use when you drive – other?	0.046 0.440 281	0.105 0.078 282	-0.066 0.267 281
C12AS14 – Where do you usually go when you have the use of the car – just cruise around?	0.138 0.021 281	0.108 0.071 282	0.098 0.100 281
C12AS15 – Where do you usually go when you have the use of the car – party?	0.027 0.647 281	0.110 0.065 282	0.153 0.010 281
C12AS16 – Where do you usually go when you have the use of the car – friend’s place?	-0.058 0.331 281	0.014 0.823 282	0.029 0.631 281
C12AS17 – Where do you usually go when you have the use of the car – work?	-0.118 0.049 281	-0.036 0.548 282	-0.034 0.567 281
C12AS18 – Where do you usually go when you have the use of the car – school?	-0.177 0.003 281	-0.124 0.037 282	0.028 0.642 281
C12AS19 – Where do you usually go when you have the use of the car – other?	-0.015 0.808 281	-0.009 0.875 282	0.001 0.983 281
C12AS21 – Have you ever driven a car after you had been drinking or had used drugs?	0.296 0.000 344	0.407 0.000 344	0.076 0.156 344
C12AS22 – In the past year, how often have you driven a car after you had been drinking or had used drugs?	0.308 0.000 344	0.458 0.000 345	0.140 0.009 344
C12AS23 – Have you ever caused an accident or done damage to a car?	0.099 0.067 344	0.172 0.001 344	0.089 0.099 344

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations			
	C12AS31	C12AS32	C12AS33
C12AS24 – How many times have you caused an accident or done damage to a car?	0.180 0.001 344	0.321 0.000 344	0.056 0.297 344
C12AS25 – Was anyone injured or did anyone die as a result – no injury or death?	0.066 0.219 344	0.043 0.423 344	0.078 0.151 344
C12AS26 – Was anyone injured or did anyone die as a result – physical injury to self?	0.076 0.161 344	0.081 0.135 344	0.021 0.696 344
C12AS28 – Was anyone injured or did anyone die as a result – physical injury to others?	0.076 0.161 344	0.474 0.000 344	0.042 0.433 344
C12AS30 – Was anyone injured or did anyone die as a result – death?	. .br/>344	. .br/>345	. .br/>344
C12AS31 – Have you ever been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	1.000 344	0.550 0.000 344	0.131 0.015 344
C12AS32 – In the past year, how many times have you been a passenger in a car driven by someone who had been drinking or who had used drugs prior to driving?	0.550 0.000 344	1.000 345	0.071 0.188 344
C12AS33 – After how many drinks do you think it is unsafe to drive?	0.131 0.015 344	0.071 0.188 344	1.000 344