Some racial/ethnic groups overestimate the number of drinks they can have before driving

January 15, 2015. Black and Hispanic drinkers are more likely to overestimate how much they can safely drink two hours before driving, a new and innovative study examining impairment limits found. The study, published on December 15, 2015 in the American Journal of Public Health, determined that on average 28% of Black drinkers and 31.2% of Hispanic drinkers reported 5 or more drinks can be consumed in two hours without their becoming too impaired to get behind the wheel compared to 12.3% of White drinkers. Similar results were found when looking at 10 drinks or more with 1.3% of Whites, 5.1% of Blacks and 7.7% of Hispanics reporting they would not be impaired at such levels. Differences between groups remained even after considering other factors such as weight, education and drinking history.

"Our findings that Black and Hispanic drinkers report being able to consume about 30% more alcohol than white drinkers with similar characteristics before they would consider themselves too impaired to drive applied to men and women, heavy drinkers and light drinkers and those who reported driving while impaired and those who did not, suggesting a broad cultural difference," said lead researcher, William Kerr, a Senior Scientist at the Alcohol Research Group, a program of the Public Health Institute. "This suggests that lower rates of self-reported DUI by these groups may be partly due to this difference in meaning and provides a potential target for intervention efforts."

The Centers of Disease Control (CDC) states that even one drink will impair your ability to drive and put you at risk. The US Standard Drink was used in this study which contains approximately 14 grams of ethanol. Five drinks within 2 hours would result in a BAC of 0.08 or higher for most people.

Kerr said the results suggest that people who design public health campaigns aimed at tackling drinking and driving should take into account these cultural differences and how people think about their limits. He also calls for further studies to investigate differences in how racial/ethnic groups understand alcohol impairment and driving risks.

Using data from the National Alcohol Surveys conducted in 2000, 2005 and 2010, the study looked at over 7,000 people from across the United States and their self-reported responses to questions on past drinking and driving behavior.

For editors:

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Media seeking interviews with lead author Dr. William Kerr may contact him at the Alcohol Research Group, a program of the Public Health Institute, by email (wkerr@arg.org) or telephone (510-597-3440).