

Flipping the Pyramid: Policies and Practices to Decrease Alcohol-Related Crashes

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Binge Drinking

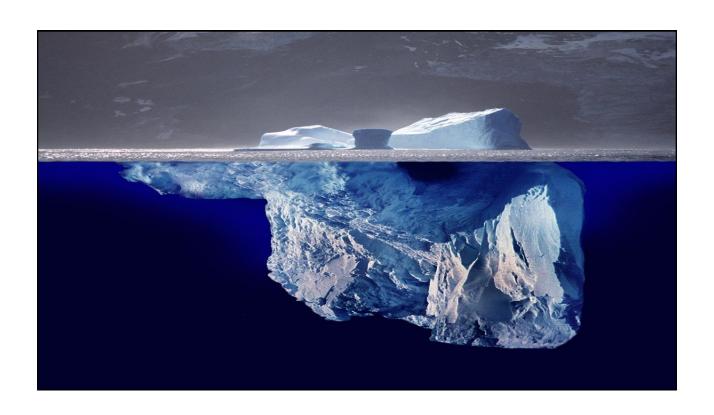
Binge drinking is a pattern of drinking that raises a person's blood alcohol concentration to 0.08%.

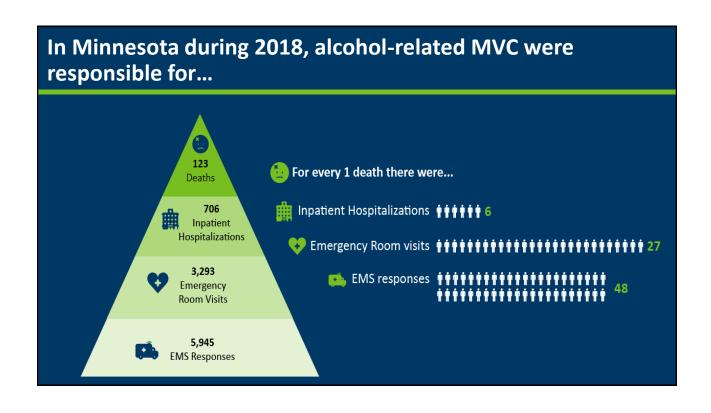
- Five or more drinks on a single occasion for men
- Four or more drinks on a single occasion for women
- Two hours is considered a single occasion.

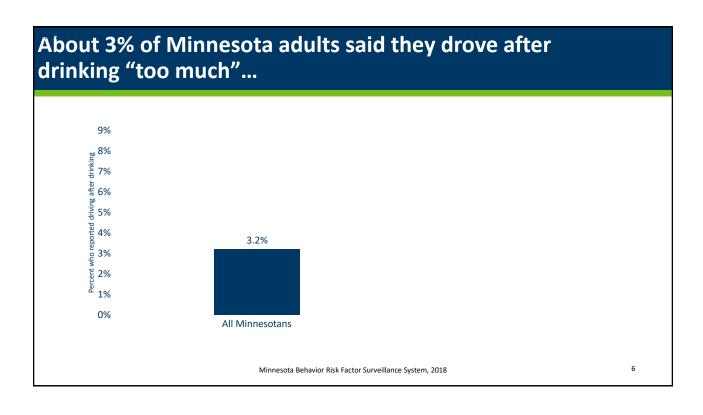


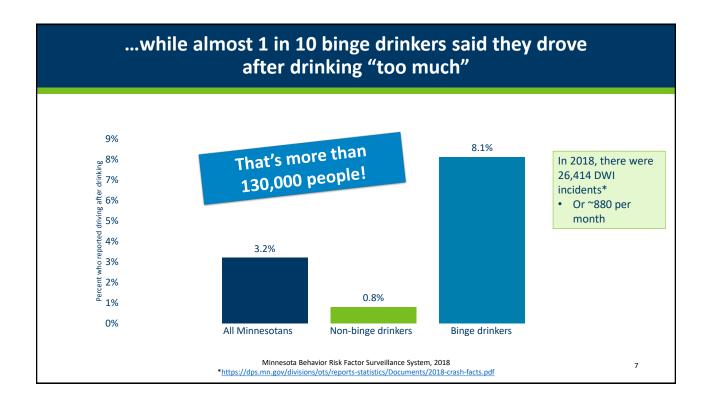


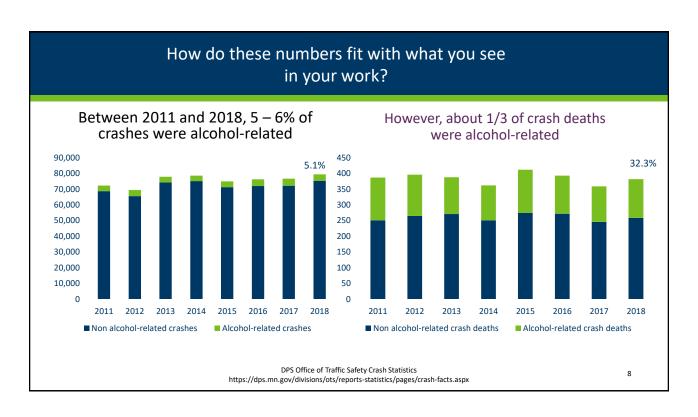
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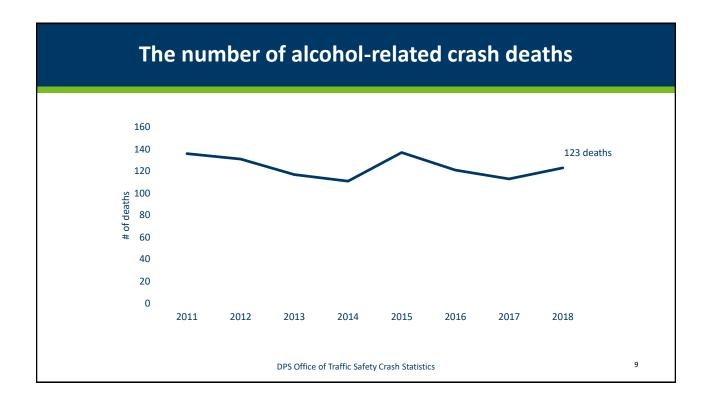












Minnesota Trauma Registry (MNTrauma)

- Collects data for the MN traumatic brain injury and spinal cord injury registries
- Hospitals are required to report cases that meet criteria for major trauma

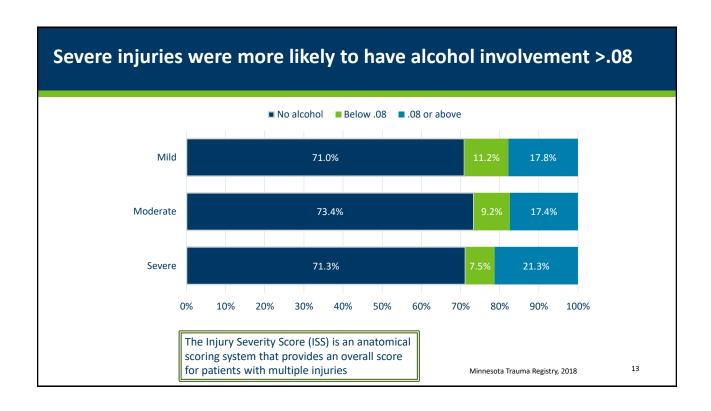


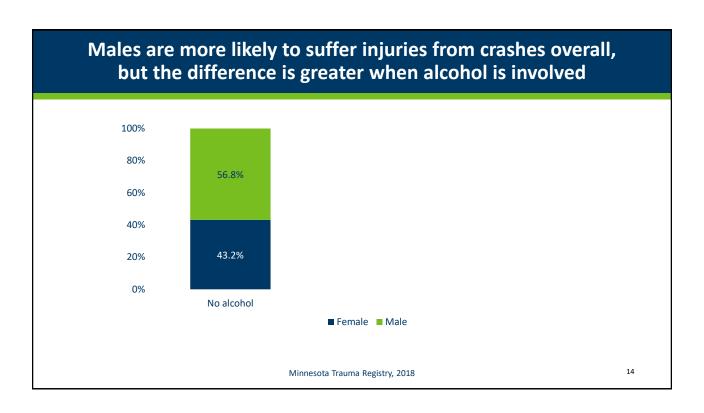
The number of motor vehicle crash injuries reported in the trauma system, 2018 In 2018, there were 5,412 MVC injuries reported in MNTrauma 29% of those patients had a positive BAC

 <u>Note</u>: we do not have information on whether they were driving



The proportion of MVC injuries, by BAC level Eliminating those 80 71.4% injuries with a BAC of 70 .08 or above would 60 mean about 520 50 fewer injuries 40 Eliminating those 30 injuries with a BAC of .01 to .079 would 18.1% 20 reduce the number of 10.6% 10 injuries by an 0 additional 300 no alcohol below .08 above .08 12 Minnesota Trauma Registry, 2018





Alcohol is costly

- DPS estimates traffic crashes cost Minnesota \$1.9 billion each year¹
 - 15% of those costs were due directly to alcohol-related crashes in 2018 (more than \$283 million).



- Other estimates of the costs from excessive alcohol use include costs due to lost productivity, criminal justice, services for children with FASD, and more.
 - The latest estimate shows that excessive alcohol use cost Minnesota \$3.9 billion in 2010, or about \$1.74 per drink.
 - 40% of these costs are born by state and local governments -- \$1.5 billion in 2010, or \$.69 per drink

 ${}^{1}\underline{\text{https://dps.mn.gov/divisions/ots/reports-statistics/Documents/2018-crash-facts.pdf}}$

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²Sacks, Gonzales, Bouchery et al, 2015

So what does this mean?

- Each year, investing in DWI prevention in Minnesota could save:
 - More than 100 premature deaths
 - More than 800 injuries requiring hospital treatment
 - Nearly \$300 million dollars
- Each year, investing in prevention of excessive drinking (such as binge drinking and underage drinking) could save:
 - More than 1,700 deaths
 - \$3.9 billion dollars -- \$1.74 for each drink consumed





Thank you! Comments? Questions?

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