PREVALENCE OF NOVICE TEENAGE DRIVER CELL PHONE USE

Driving Assessment

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Novice Teen Drivers

 \Box 3x crash rate per mile driven than drivers 20+^{*}

More likely to engage in cell phone related secondary tasks than older drivers



*Federal Highway Administration. 2008. National Household Travel Survey, 2008. Washington, DC: US Department of Transportation

Previous Prevalence Estimates

□ 16-17-year-olds

2009 - 52% talked and 34% texted while driving (Pew)

2012 - 43% texted or emailed while driving (YRBS)

Limitations

"Have you ever" (Pew) "In the last 30 days" (YRBS)

No talking measure (YRBS) or measure of intensity

Surveyed all teens, rather than teen drivers

Madden, M. & Lenhart, A. (2009). Teens and distracted driving Washington D.C.: Pew Research Center.

Eaton, D. K., Kann, L., Kinchen, S., Shanklin, S., Flint, K. H., Hawkins, J. et al. (2012). Youth risk behavior surveillance - United States, 2011 (Rep. No. 61)

Aim

Describe the prevalence of selfreported cell phone use while driving among newly-licensed teen drivers

Method



NEXT Generation Health Study Survey

Self-report questionnaire

Talking (making and receiving calls)

Texting (sending and reading text messages)

□ Predictors

Gender, Ethnicity, Family Affluence, Vehicle Access, Driving Exposure

States in the NEXT Sample



California, Colorado, Connecticut, Florida, Georgia, Idaho, Illinois, Kentucky, Louisiana, Massachusetts, Michigan, Minnesota, Nevada, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, Texas, West Virginia and Wisconsin

Analysis

□ Conducted in SAS 9.3

- Accounted for complex survey sampling
- Estimated using Generalized Estimating Equations, accounting for:
 - binomial distribution of data
 - N days used phone while driving ÷ N days driven

Results – All Teens (N = 2,439)

42.0% reported talking while driving at least once in the last 30 days

36.8% reported texting while driving at least once in the last 30 days

Sample of Licensed Drivers (n = 881)

Age M = 17.4 years (SD = .5 years)			
	%		%
Gender		Family Affluence	
Male	47.6	Low	14.1
Female	52.4	Moderate	49.2
Race/Ethnicity		High	36.7
White	71.8	Driving Exposure	
Hispanic	10.5	Low	11.5
African American	13.2	Medium	15.2
Other	4.5	High	73.3
Driving exposure - Number of days driven in the last 30 days: Low \leq 10 days, Medium 11 – 20 days, High \geq 20 days			

Results – Licensed Drivers (n = 881)

75% reported talking while driving at least once in the last 30 days

67% reported texting while driving at least once in the last 30 days

Ethnicity and driving exposure significantly associated with talking and texting

Days Driven vs Days Received Text



Days Drive Vehicle Previous 30 Days

Results – Licensed Drivers (n = 881)

Teens reported talking while driving on 32.0% of days drove

Teens reported texting while driving on 40.6% of days drove

Ethnicity, family affluence, and driving exposure significantly associated with talking and texting

Summary

- Overall prevalence similar to previous studies
- Among licensed drivers, prevalence of talking and texting while driving is high
- Ethnicity and driving exposure were significantly associated with ever talking and texting while driving
- Ethnicity, family affluence and driving exposure were significantly associated with percent of days talked or texted while driving

Strengths and Limitations

Two different prevalence estimates:

- 1. Ever talked in last 30 days
- 2. Days talked/texted out of days driven

- Self reported behavior
- Cross sectional

Future Directions

Prevalence of cell phone use while driving in states where cell phone restrictions in effect versus no restrictions This research (contract number HHSN26720080009C) was supported in part by the Intramural Research Program of the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD), and the National Heart, Lung and Blood Institute (NHLBI), the National Institute on Alcohol Abuse and Alcoholism (NIAAA), and Maternal and Child Health Bureau (MCHB) of the Health Resources and Services Administration (HRSA), with supplemental support from the National Institute on Drug Abuse (NIDA).

