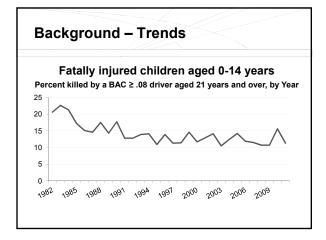
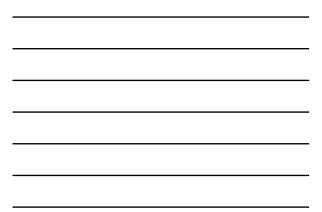


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Background – Trends

- Trends persisting over time.
- Odd because:
 - significant vehicle improvements,
 - child restraint improvements, and
 - several traffic safety laws & policies activated.

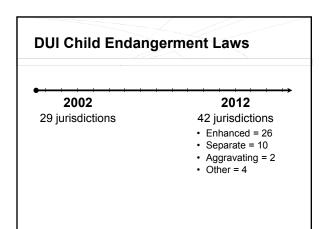
DUI Child Endangerment Laws

Laws intended to protect children from being driven by an intoxicated driver.



Law Type:

- 1) Enhance penalties
- 2) Separate offenses
- 3) Aggravating circumstances



State of the Law

We examined:

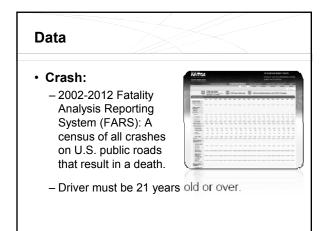
- Percent of children killed by drinking driver by state and type of law.
 - × No patterns emerged.
- Potential strength of the law based on provisions.
 - ✗ No statistical difference among % children killed across states.

Study Aims

Aim 1: Characterize drivers transporting children while impaired (BAC \ge .08).

Aim 2: Assess the impact of DUI Child Endangerment Laws on the prevalence of children fatally injured in motor vehicle crashes.

Methods







Aim 1: Characterize Drivers

- Logistic regression.
- Predict the type of driver who drinks (BAC ≥ .08) and transports a child (0-14 years) by age, gender, driving situation, and prior DWI.

Aim 2: Examine Impact of Policy

Primary outcome measure:

 Percent of fatally injured passengers who were children in states that passed a DUI Child Endangerment Law.

Aim 2: Impact of Policy (Unadjusted)

- · Bivariate Analyses.
- Before (pre) vs. After (post) law implementation.

Aim 2: Impact of Policy (Adjusted)

• Multinomial regression.

• Child fatality as a function of:

- DUI Child Endangerment Laws (pre, post, no law)
- Safety Belt Law (primary, secondary, no law)
- Child Seat Position (front, back, rows)
- Driver Characteristics (gender, age, race)
- Time of Crash
- Drivers' Speeding
- Drivers' BAC



Characteristic	Odds	Characteristic	Odds
Prior DUI	Ratio 4.71	Black/African American	Ratio
			.90
Ref: No prior DUI Men	1.96	Hispanic Asian	.90
Ref: Women	1.90	Native American	2.93
Age 21–24	1.21	Ref: White	2.00
Age 25–29	1.36	6 AM-10 AM	.74
Age 40–49	.77	5 PM-9 PM	2.42
Age 50–59	.50	9 PM-6 AM	5.51
Age 60+	.11	Ref: 10AM–5PM	
Ref: Age 30–39		Weekend	1.49
		Ref: Weekday	



Aim 1: Characterize Drivers

- Compared with sober drivers, drivers transporting children and drinking and driving (BAC ≥ .08) were more likely to be:
 - Male
 - Age 30-39 years old
 - African-Americans or Native-Americans
 - Driving at night
 - Driving during the weekend
 - Had a previous DWI

	Before Law	Post Law
Ages covered by law	18.5%	15.7%

Aim 2: Impact of the Law (Adjusted)

- Seatbelt law
- Child seat position
- Driver age
- Driver gender
- Driver race/ethnicity
- Driver BAC
- Time of day
- · Day of week

	Before Law	Post Law
Ages covered by law	18.5%	18.3%



Summary Results

- "Hard core" DWI male drivers are those more likely to be drinking when driving with a child.
- However, most drivers of children are women and/or not hard-core drinking drivers, and many of them are still found driving with children after drinking.

Summary Results

- Child endangerment policies have no impact.
 Once all variables were added, the Child
 - Endangerment Law was no longer statistically significant.
- Most of the outcome is explained by:
 - where a child is seated,
 - the presence of alcohol, and
 - the driver's gender.

Conclusions

- Child Endangerment Laws are not by themselves effective. Why?
 - Lack of general public awareness.Limited, if any, publicity.
 - Not well enforced.
 - Lack of policy understanding.
 - In court, often plea bargained.
 - Little strength in the policy.

Future Directions

- Educate the public.
 MADD's designated driver for your child campaign.
- Educate law enforcement officers and court officials.
- ✓ Standardize policy.

Thanks!

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