# **Introduction to First Impact GDL Traffic Safety Education Program for Parents**

The goal of First Impact is to reduce the number of motor vehicle fatalities, injuries and crashes among teen drivers by increasing parental awareness and enforcement of Missouri's GDL law. The objectives of the program are to increase: 1) Awareness of teen driving risks, 2) Understanding of Missouri's GDL law, 3) GDL monitoring and enforcement at home, and 4) Importance of being a positive role model.

Pre- and post-surveys were conducted during the pilot year of the First Impact intervention (12-month period, May 1, 2016-April 30, 2017). Participants included parents and teens attending the First Impact program (N = 690). The majority (60%) of attendees were parents. A chisquare analysis was used to evaluate whether frequency of responses in the pre- and post-survey groups were significantly different.

N=690 Pre N=664 Post Reported understanding on post-surveys was significantly higher than reported understanding on pre-surveys (p<0.01). At the beginning of the class, 37% of attendees reported no understanding to almost no understanding of the GDL law. At the conclusion of the class, 96% of attendees reported fully understanding to almost fully understanding the

Question 2: Rate your understanding of the nighttime restrictions in Missouri's GDL law.

Question 2	Response											
			Don't Jnderstand 1		2		Somewhat Understand 3		4		Fully Understand 5	
N=685	Pre	201	(29%)	109	(16%)	262	(38%)	82	(12%)	31	(5%)	
N=662	Post	0	(0%)	3	(.05%)	28	(4%)	138	(21%)	493	(74%)	

## First Impact is designed for parents of teens in the pre-permit, permit or intermediate stages of GDL licensure. The 90-minute intervention is presented by trained GDL facilitators at schools and in community-based and workplace settings. The program was developed through research of best practices and grounded in educational theory. The First Impact intervention was launched statewide in May 2016.

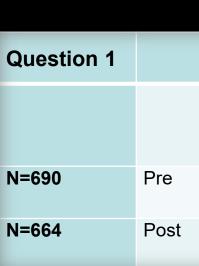
First Impact is a program of ThinkFirst Missouri, an evidence-based trauma prevention program of the University of Missouri School of Medicine, Department of Physical Medicine and Rehabilitation. ThinkFirst Missouri is an affiliate chapter of the ThinkFirst National Injury Prevention Foundation. Funding for First Impact is provided by MoDOT Highway Safety and Traffic DIVISION.

# Teen Driver Risk & Graduated Driver Licensing (GDL) Systems

GDL programs reduce crash risk by slowly introducing teens to more complex driving tasks and responsibilities as they mature and gain skills (IIHS Beginning Teen Driver, 2014). GDL systems demonstrate a significant impact on reducing the risk of new drivers (NHTSA Countermeasures That Work, 2015).

# **Purpose of the Study**

The purpose of this study was to evaluate the understanding of key components of the Missouri GDL law before and after receiving the First Impact GDL parent program intervention.



GDL law.





# Evaluation of First Impact—A Graduated Driver License (GDL) **Traffic Safety Program for Parents**

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### **Methods**

Reported understanding on post-surveys was significantly higher than reported understanding on pre-surveys (p<0.01). At the beginning of the class, 45% of attendees reported having no understanding to almost no understanding of the GDL nighttime restrictions. At the conclusion of the class, 95% of attendees reported fully understanding to almost fully understanding the nighttime restrictions in the GDL law.

### **Results**

Understanding of GDL Law Question 1: Rate your understanding of Missouri's GDL law.

RUSK												
Don't Understand		Reha	abilitation Ho	spital				Fully Understand				
	1		2		3		4		5			
173	(25%)	86	(12%)	293	(43%)	113	(16%)	25	(4%)			
0	(0%)	3	(.05%)	23	(3%)	193	(29%)	445	(67%)			

## Understanding of Nighttime Restrictions

### Understanding of Passenger Restrictions

Question 3: Rate your understanding of the passenger restrictions in Missouri's GDL law.

Question 3	Response											
			Don't lerstand 1		2	Somewhat Understand 3		4		Fully Understand 5		
N=688	Pre	160	(23%)	92	(13%)	265	(39%)	123	(18%)	48	(7%)	
N=660	Post	0	(0%)	1	(.02%)	18	(3%)	132	(20%)	509	(77%)	

Reported understanding on post-surveys was significantly higher than reported understanding on pre-surveys (p<0.01). At the beginning of the class, 36% of attendees reported having no understanding to almost no understanding of the GDL passenger restrictions. At the conclusion of the class, 97% of attendees reported fully understanding to almost fully understanding GDL passenger restrictions.

# Conclusion

Based on the change in attendee responses, the First Impact intervention produced a highly significant improvement in understanding three vital components of the GDL law. The results of the study indicate that the First Impact program is a promising intervention to increase the understanding of Missouri's GDL law.

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## Results



