



Safe driving for life:

changing attitude and behaviour through education, training and testing.







L. Šeibokaitė, R. Arlauskienė, A. Endriulaitienė, R. Markšaitytė, K. Žardeckaitė-Matulaitienė Vytautas Magnus University, Kaunas, Lithuania Klaipėda University, Klaipėda, Lithuania



cr∧nmore



How does driving self-efficacy







and safety attitudes change during standard driving training? Does it last? L. Šeibokaitė, R. Arlauskienė, A. Endriulaitienė, R. Markšaitytė,









Participation in car accident – at fault



The Purpose of Driving Training

The standard driving training:

- transferring of theoretical knowledge of traffic rules,
- training of practical vehicle control skills,
- getting acquainted with technical organization of vehicle,
- getting acquainted with first aid,

instruction of safety features and attitudes.

The Effectiveness of Driving Training

Success in driving exam



Safe & reliable driver

Lerner's perspective

Finish quickly – I need my license Driving school's perspective

Finish quickly – get new students

We know little...

- how trainees perceive the training process,
- how they react to instruction content,
- how the perceptions gained during learning process last after they finish driving training.

Indirect Indicators of Driving Training Effectiveness

- Safety favourable attitudes towards behaviour on the road
- Driving self-efficacy (the belief of being able to perform it well).

Current Study

The aims:



- to evaluate the changes of driving self-efficacy and road safety attitudes that occur during the standard driving training in Lithuania;
- to evaluate the one-year effect of the changes;
- to evaluate how driving self-efficacy and road safety attitudes contribute to later self-reported risky driving.

Standard Driving Training



Driving school:

- Theory 40 hours
- Practice 30 hours
- Duration 3-6 weeks

Individually:

- Theory individually
- Practice 30 hours (driving school)

Driving with close relative is permitted after theory exam

Participants



Licensed novice drivers – 175 (longitudinal sample).

Age 18 – 30+ years. Mean age – 20 55 % - 18-19 years at the end of training. 6 % - above 30 years.

Several driving schools across Lithuania, but were mainly recruited from the large cities.





Longitudinal design

1 stage

In the beginning of the training

- Questionnaire
 - personality traits
 - risk perceptions
 - driving self-efficacy
 - and attitudes towards traffic safety

2 stage

At the end of the training

- Questionnaire
 - risk perceptions
 - driving self-efficacy
 - and attitudes towards traffic safety

3 stage

12 months after the beginning of the training

 Telephoned to evaluate their selfreported driving style and a number of outcomes of their driving (e.g., crashes and fines), again driving self-efficacy and attitudes towards traffic safety

Measures

Self-reports:

- Time 1 and 2 and 3:
 - the Adelaide Driving Self-efficacy scale ADSES (George, Clark, & Crotty, 2005), which measure the confidence of the driver in being able to drive well in various situations (Cronbach alpha = .91).
 - the scale of Attitudes towards risky driving (Iversen, Rundmo, 2004). It refers to person's perception and evaluation of rule obeying, over-speeding, drink-driving, behaviour of others (Cronbach alpha = .76-.82).
- Time 3:
 - self-reported risky driving behaviour using the Driver Behaviour Questionnaire (DBQ; Reason et al., 1990): errors (Cronbach's alpha = .85) and violations (Cronbach's alpha = .75).

Results: Attitudinal Changes



Results: Attitudinal Changes (2)



Results: Self-efficacy Changes



Results: Prediction of Risky Driving T1-T3



Controlled for: gender residence place social desirability

Results: Prediction of Risky Driving T2-T3



Controlled for: gender residence place social desirability

Results: Prediction of Risky Driving T3-T3



Controlled for: gender residence place social desirability

Conclusions & Comments

- Important psychological changes occurity
 typical driving training, even without coccurity
- The belief to be able to take a control over the v the training and in the first year of driving, which progrowing manoeuvring skills of novice drivers.
- Risky attitudes were decreasing during women. They decreased during later increased during independent

How to maintain or increase the reached effect for safety attitudes during the most dangerous year of independent driving?

What effect might cause special psychologic ' the inter Driving schools succeed in training vehicle control skills g which production

> vear after for ॥, but ^{ct}्री level.

Conclusions & Comments (2)

 In the contrary with other research the could not predict intentional violations, Thus, results question the previous data t they believe having good driving skills. Belief in own abilities to drive a vehicle might be an indicator of future driving proficiency.

 Risk-favourable attitudes towards behaviour on the road predicted both driving errors and intentional violet:

Future risk drivers can be recognised prior starting to drive, therefore, could potentially be intervened during the training. Driver & Vehicle Agency





How does driving self-efficacy and safety attitudes c during standard drivin Does it last?

L. Šeibokaitė, R. Arlauskienė, A K. Žardeckaitė-Matulaitienė Vytautas Magnus University, Kaunas, Lith Klaipėda University, Klaipėda, Lithuania Questions ??? Comments....



cr^nmore





visit

Belfast





Ca