Introduction

- In 2014, about 26,000 people were killed in road accidents in the EU, with 6,200 of them being females and 19,800 being males.
- Different gender characteristics and behaviors are reflected in road accidents.
- While females represent 51% of the total EU population, they account only for 24% of all road fatalities.

Objective

The objective of this research is the analysis of basic road safety parameters related to road users’ gender in the EU countries, using the EU CARE database with disaggregate data on road accidents, the EU Injury Database (EU IDB) and the SafetyNet Accident Causation System (SNACS).

Methodology

- Macroscopic road accident data from the EU CARE database, in-depth accident data from the SafetyNet Accident Causation System (SNACS) and injury data from the EU Injury Database (EU IDB).
- Macroscopic time series data from 28 EU countries for the period 2005-2014.
- In-depth data from 6 EU countries for the period 2005-2008 using a common methodology.
- Injury data from hospitals in 9 EU countries for the period 2005-2008 using a common methodology.
- Road accident data correlated with basic safety parameters:
  - casualty age
  - road user type
  - mode of transport
- Available risk exposure data from other international data files (Eurostat, etc.).

The relationship between male and female fatalities

- The road fatality rate of males in 2014 was more than three times the respective female rate.
- There is a slight tendency for male percentages to be higher in the South.
- The highest male ratios were recorded in Greece, Croatia, Portugal, Italy and Latvia.

Overall road safety trends

- The number of people killed in road accidents in the EU decreased between 2005 and 2014 by 43% for males and 42% for females.
- Cyprus and Estonia recorded a much higher male reduction (61% compared to 32% and 60% compared to 36% respectively).
- Spain had the highest reduction of road fatalities per million population (61% for females and 65% for males).

Discussion

- The road safety problem differs between males and females in the EU as a whole but also among the individual countries, reflecting different gender characteristics and travel behaviors between the two genders, cultures and modal shares among the countries etc.
- The results of the analysis allow for an overall assessment of the gender-differentiated safety level in the European road network.

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