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### Data Article

# Data on the determinants of the risk of fatalities, serious injuries and light injuries in traffic accidents on interurban roads in Spain

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#### ABSTRACT

This article describes the data collection used to analyse the risk of fatalities and injuries resulting from traffic accidents on interurban roads in the provinces of Spain from 1999 to 2015. The database includes data on different factors related to accidents rates for each Spanish province. These data were used in the article entitled "Impact of provincial characteristics on the number of traffic accident victims on interurban roads in Spain" (Sánchez et al., 2018) [1].

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#### Specifications Table

Subject area	<i>Social Sciences</i>
More specific subject area	<i>Road Traffic Accidents</i>
Type of data	<i>Excel files</i>
How data was acquired	<i>Data compilation from public sources</i>
Data format	<i>Raw and analysed</i>
Experimental factors	<i>Compilation of information on the number of victims according to the seriousness of the injury and other factors related to road accident</i>

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E-mail address: [Francisco.Esotos@uclm.es](mailto:Francisco.Esotos@uclm.es) (F.E. Sotos).

Experimental features	<i>statistics for each Spanish province between 1999 and 2015. Construction of variables and configuration of the database using Excel. Specification and development of econometric models using STATA software. The risks of fatalities, serious injuries and slight injuries and their determining factors for each Spanish province were obtained by means of econometric models with data panel.</i>
Data source location	Spanish provinces
Data accessibility	Mendeley Data. Number identification (DOI): <a href="http://dx.doi.org/10.17632/yw84spgpmc.3">http://dx.doi.org/10.17632/yw84spgpmc.3</a> <a href="https://data.mendeley.com/datasets/yw84spgpmc/3">https://data.mendeley.com/datasets/yw84spgpmc/3</a> [2]

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## Value of the data

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- The database developed provides the scientific community with a complete and diverse set of determinants of traffic accidents on interurban roads in Spain's smallest territorial units, the provinces.
  - The compilation of the data on the provincial variables selected has important implications for the future of traffic accident research in Spain, given the scant literature available using provinces as the unit of analysis.
  - The data have the potential to serve as guidance for future research in which the objective is a more specific analysis of traffic accident rates in other territorial units or countries.
  - The database pools data gathered from different database, thus providing a useful tool for the research community with an interest in traffic accidents.
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## 1. Data

The data presented in this summary were used to develop the research conducted by Sánchez et al. [1]. The data were taken from statistical information compiled in Spain by Directorate General for Traffic, the National Statistics Institute, the Ministry of the Interior, the Ministry of Public Works and Transport and the Ministry of Agriculture, Fisheries, Food and Environment. All the observations of the dependent variables (risks of fatality and injury) were gathered for each province for the 1999–2015 period. The 850 observations and the database design enabled us to conduct an econometric panel data analysis. The record of the number of victims of traffic accidents classified according to seriousness of injury by the Directorate General for Traffic facilitated our twofold objective:

- To quantify the risk of fatality, serious injury and slight injury for each Spanish province resulting from the specific characteristics of each province.
- To determine the relationship between each explanatory variable and the risks of fatality, serious injury and slight injury.

## 2. Experimental design, materials and methods

Once we had the data for the specific set of individual units (provinces) and observations for these units over a defined period of time (1999–2015), we constructed the database by means of panel data. To this end, the columns express each of the variables selected for the main research or those necessary to derive them. The rows include all the observations for each province and in each year of the study period. The provinces are organized in alphabetical order according to the Autonomous Community of which they form part.

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