

## Abstract

In this study we analyze the effect of DST on the traffic accidents in the short run period and the effect of darkness in the long run period. Applying Regression Discontinuity Design and Negative Binomial Regression Model we estimate that the impact of DST increases by 7% the number of total accidents in the short run period and the effect of darkness significantly increases all types of accidents in the long run period in the Czech Republic. The change to the all-year DST regime could decrease the number of all types of accidents.