

Beta Model Estimates of Suicide Rates in Turkey

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Abstract:

According to the World Health Organization, approximately one million people commit suicide each year. The suicide rates and people having psychological disorder problems in Turkey are also increasing. Especially during the last twenty years, we have witnessed a dramatic rise. Between 2000 and 2018, the total population increased by 30%, while the number of male suicides and total suicides increased by 120 and 76 percent, respectively. For all these reasons, suicide has become an ever-aggravating social health problem for Turkey and worldwide.

Suicides are mainly social and psychological problems, they have their roots in economic life. In this paper, we attempt to establish the socio-economic determinants of suicides using a city and province-level data set for Turkey for years between 2002 and 2018. To that end, we implemented a beta distribution for suicide rates using a multi-level data model.

It is expected to find the effect of divorce rates to be a significant factor in explaining the suicide rates, among other reasons, in Turkey which is consistent with (Yerlikaya, 2021).

Keywords: Suicide; Turkey; Multi-Level Analysis

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