Suicide in the US Vasiliy Usenko &

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Rationale

The United States is more religious than Europe



Rationale

The United States is

- more religious than Europe
- religiously diverse

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The United States is

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- religiously diverse
- abundant with good-quality data

Previous Research

mostly, Catholic and Protestants

Eduard Ponarin

LCSR, HSE

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- suicide in Dniepropetrovsk

Relatively small subpopulations can affect general statistics.

Data

county-level aggregate data, 2000-2006

- Suicide Death Rates per 100,000 Population
- All Races and Ethnicities, Both Sexes, All Ages, All Injuries
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- dependent: age-adjusted suicide rate in the county
- independent: percentage of major religions in the county

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There are too many, there is a need to collapse them into a limited number of meaningful categories.

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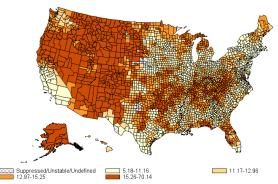
- A variety of classifications is available
- Glenmary Research Center
- Own classification

Data sources

- Office of Statistics & Programming, National Center for Injury Prevention & Control, CDC
- Religious Congregations and Membership in the United States 2000. Glenmary Research Center Nashville, Tennessee.
- Demographic controls: US Census 2000 Summary Files.

A glimpse at the dependent variable

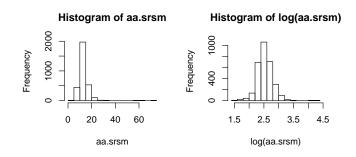
2004-2010, United States Smoothed Age-adjusted Death Rates per 100,000 Population All Injury, Suicide, All Races, All Ethnicities, Both Sexes, All Ages Annualized Age-adjusted Rate for United States: 11.38



Reports for All Ages include those of unknown age.

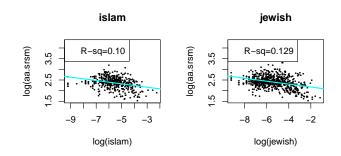
(Reputs to Manages include tods) consistent age. "Hate based on 20 of kewer dealths may be unstable." These rates are suppressed for counties (see legend above), such rates in the title have an asterisk. The standard population for age-adjustment represents the year 2000, all races, both sexes. Rates appearing in this map have been geospatially smoothed.

Another loook at the DP



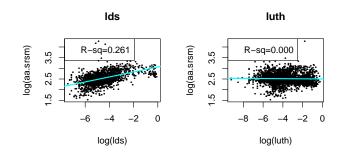


Some older religions



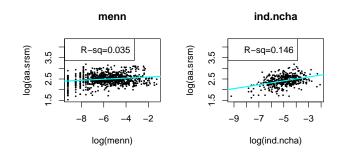


Some younger religions



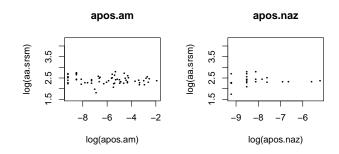


Some other religions



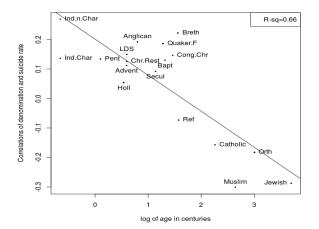


Some scarce religions





18 groups, range(n)=(297, 1711)



LCSR, HSE

Robustness checks I

Regress log suicide rate

- log population density
- log death rate
- logit sectP and logit sectN
- LDS and LDS-squared
- All items are very significant (except sectN) and $R^2 = 0.495$

Robustness checks II

remove SectN

- add log share minorities
- add lattitude and longitude

A very large R^2 and robust effects of sects

Discussion

cultural evolution thesis

rationalization

Durkheim's book describes a special case of a more general phenomenon.



More data and correlations

US Religious landscape survey (Pew 2007)

- a very large sample
- a detailed list of denominations
- a large inventory of beliefs

High correlations of suicide rate and denomination on the one hand with percentage believing in life after death (0.504) and in importance of proselitism (0.652).