

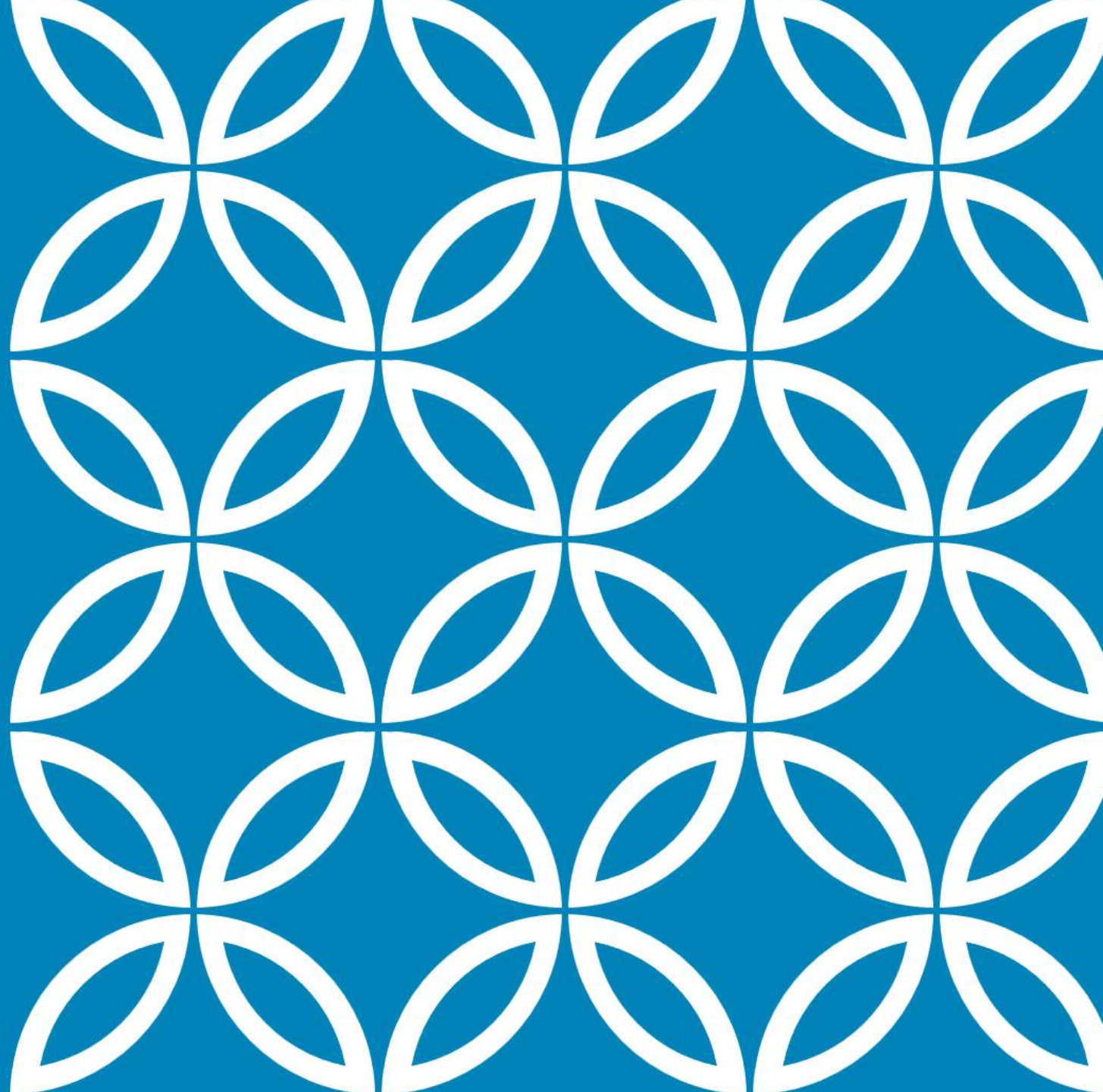


# AN ANALYSIS OF SUICIDE IN WESTERN AND NORTHERN EUROPE AND THE UNITED STATES

Christian Miyares

# QUESTIONS

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# SUICIDE AND RELIGION

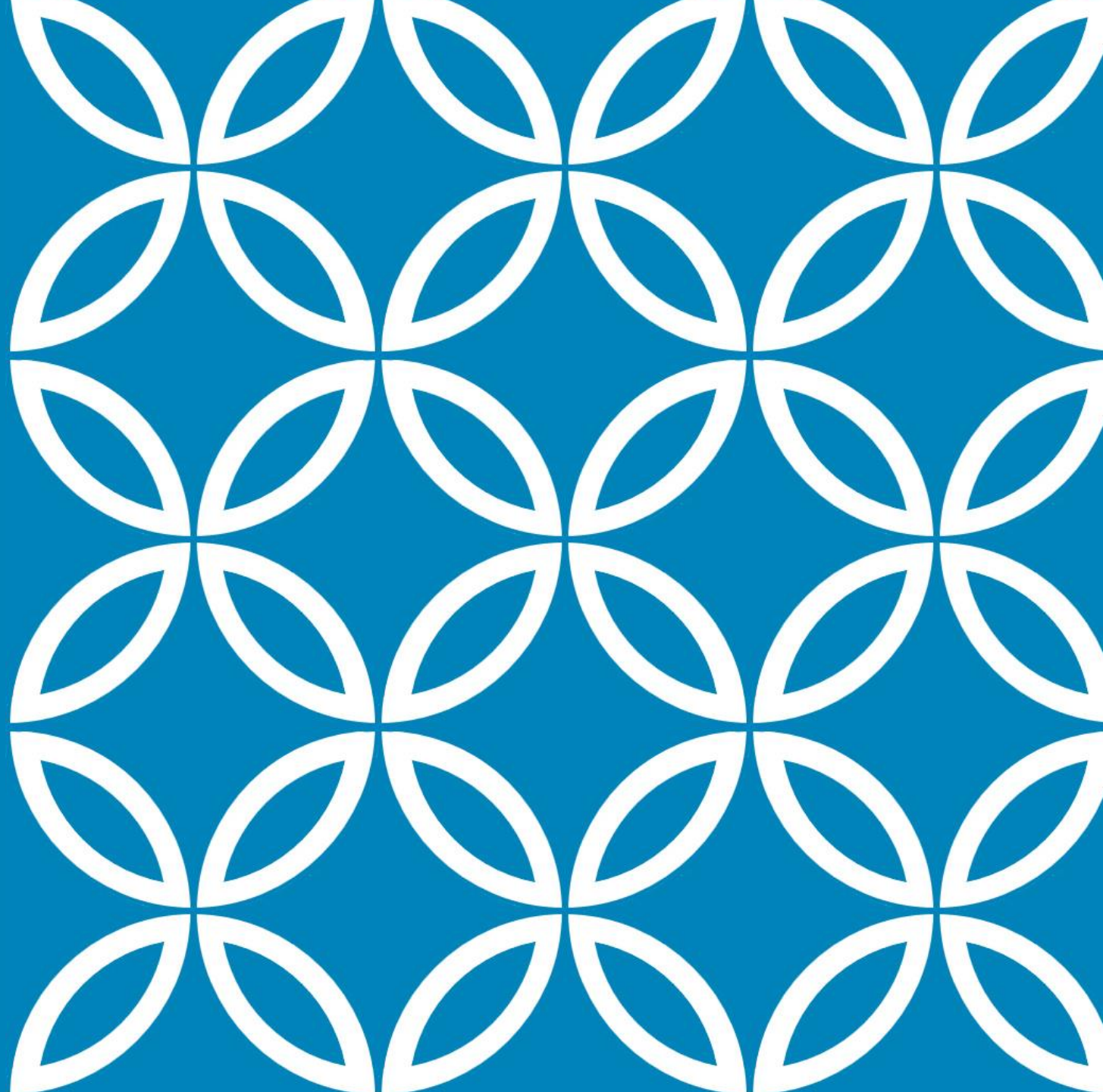
Does religion play a role in suicide in “western” or wealthy countries?

Has suicide increased in these countries from 1985-2015?

Are there differences between men and women in these countries when it comes to suicide?

# METHODS

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# LINEAR AND MULTIPLE REGRESSION

Linear regression for every country for individual male and female.

Ages 35-54 only.

Multiple regression comparing both sexes together and separately.

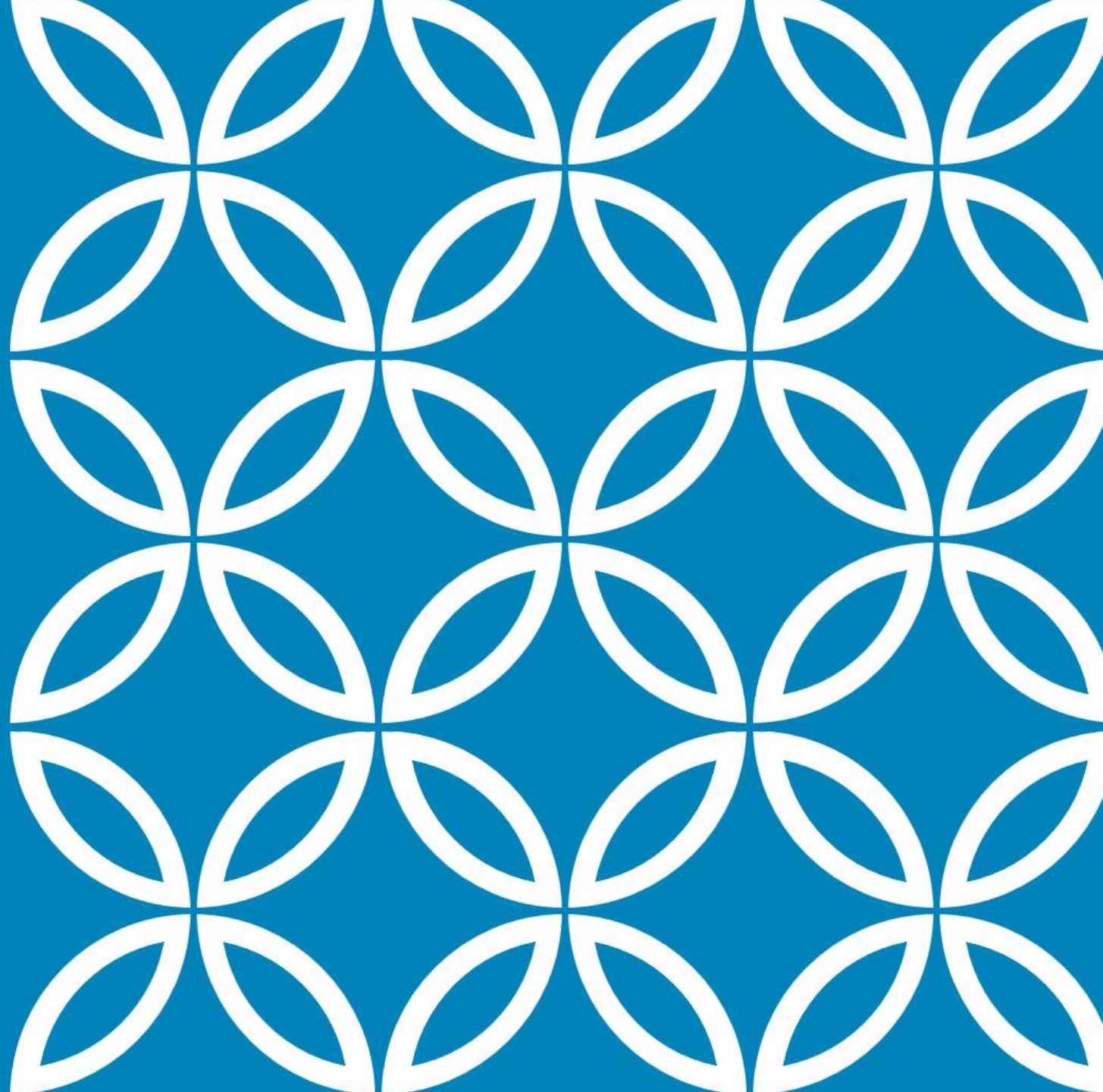
Model:

$Y$  = dependent = suicides per 100k people.

$X$ 's = country, year.

# INFERENCE/RESULTS

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# PEARSON AND FURTHER RELATIONS

Most countries tended negative.

Some anomalies.

Ireland

United States

### The CORR Procedure

2 Variables: suicides\_no year

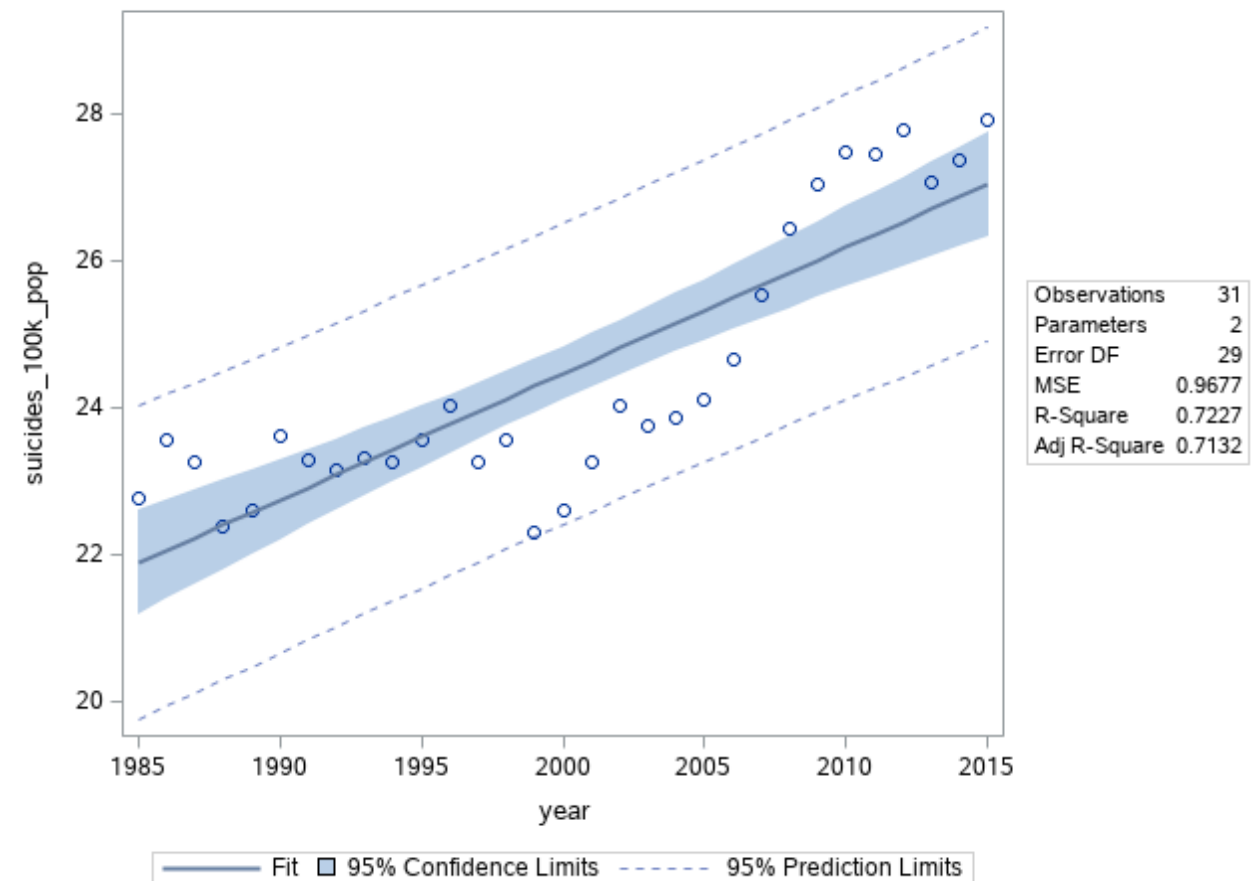
#### Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
suicides_no	31	9334	1860	289345	6053	11767
year	31	2000	9.09212	62000	1985	2015

#### Pearson Correlation Coefficients, N = 31 Prob > |r| under H0: Rho=0

	suicides_no	year
suicides_no	1.00000	0.98582 <.0001
year	0.98582 <.0001	1.00000

Fit Plot for suicides\_100k\_pop





# The CORR Procedure

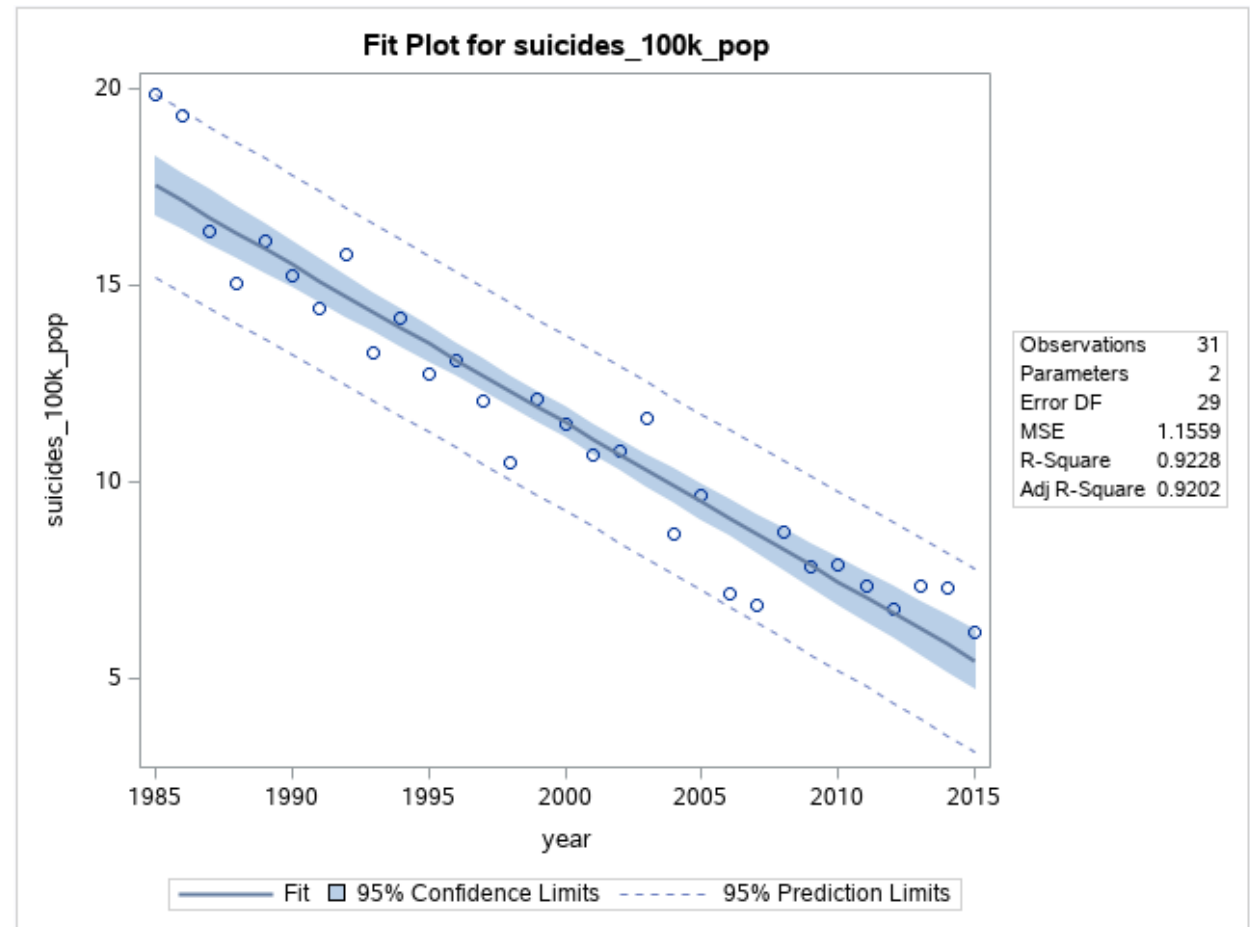
2 Variables: suicides\_100k\_pop year

## Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
suicides_100k_pop	31	11.50387	3.80548	358.62000	6.21000	19.85000
year	31	2000	9.09212	62000	1985	2015

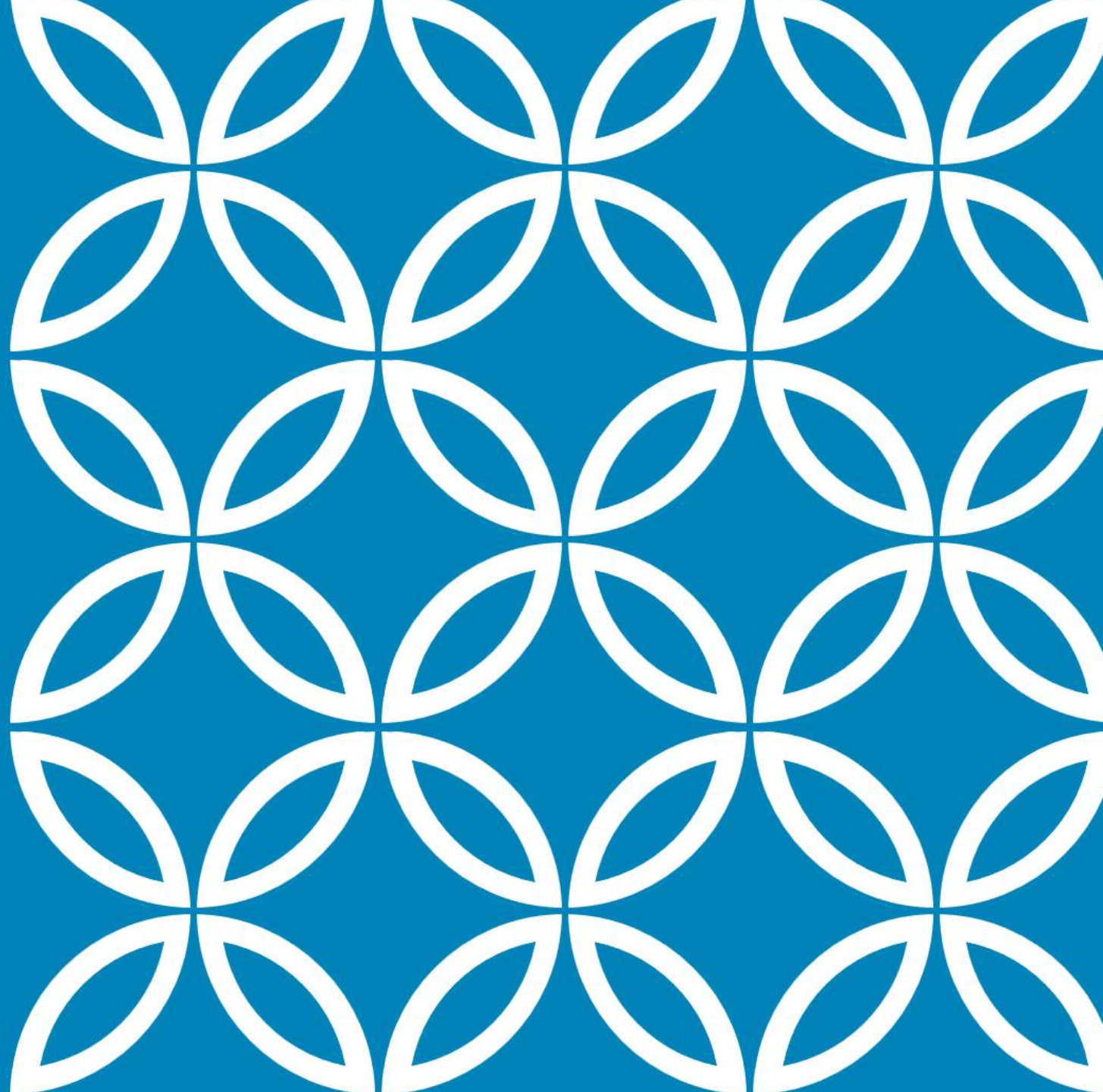
## Pearson Correlation Coefficients, N = 31 Prob > |r| under H0: Rho=0

	suicides_100k_pop	year
suicides_100k_pop	1.00000	-0.96065 <.0001
year	-0.96065 <.0001	1.00000



# INTERPRETATION

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# IS RELIGION A FACTOR

Religion is unimportant in most of the countries with lower suicide rates.

Some anomalies exist:

Ireland

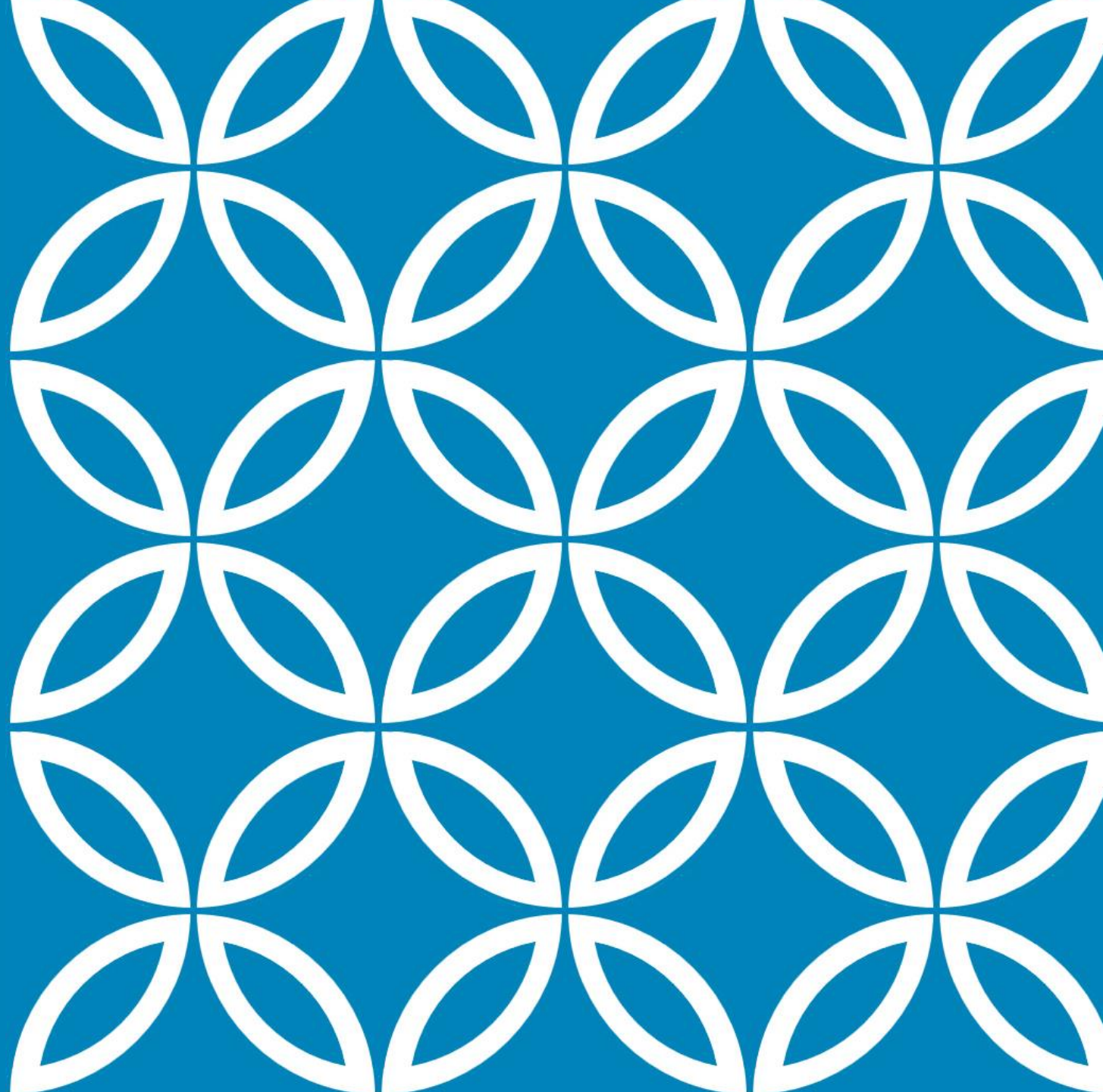
United States


Further Observations:

Male suicide rates are way higher than female suicide rates.

# LIMITATIONS

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# HOW TO BETTER QUANTIFY SUICIDE

Suicide is caused by much more than religion if at all.

Very personal and touchy subject.

Society and mental health.

Universal Basic Healthcare.