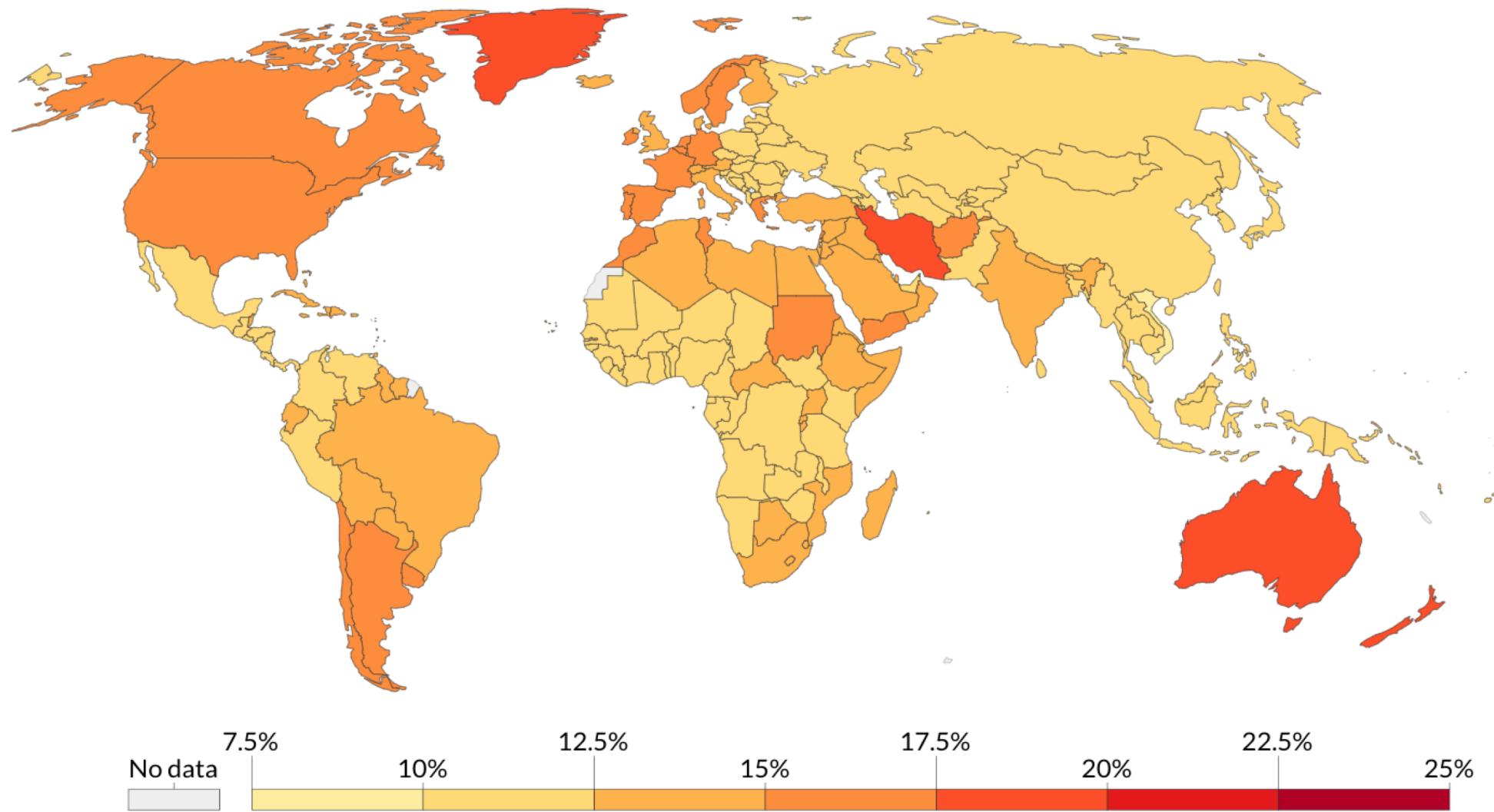


A STATISTICAL ANALYSIS OF MENTAL HEALTH RESOURCES AND GLOBAL SUICIDE RATES

**Pablo Salcedo, MD
Kelly Epley, PhD**

Share of population with mental health and substance use disorders, 2017

Share of population with any mental health or substance use disorder; this includes depression, anxiety, bipolar, eating disorders, alcohol or drug use disorders, and schizophrenia. Due to the widespread under-diagnosis, these estimates use a combination of sources, including medical and national records, epidemiological data, survey data, and meta-regression models.



METHODOLOGY

Test 1

Test 2

Test 3

Countries with
Higher
Resources
Group

Countries with
Lower
Resources
Group

Males of High
Resource
Countries
Group

Males of Low
Resource
Countries
Group

Females of
High Resource
Countries
Group

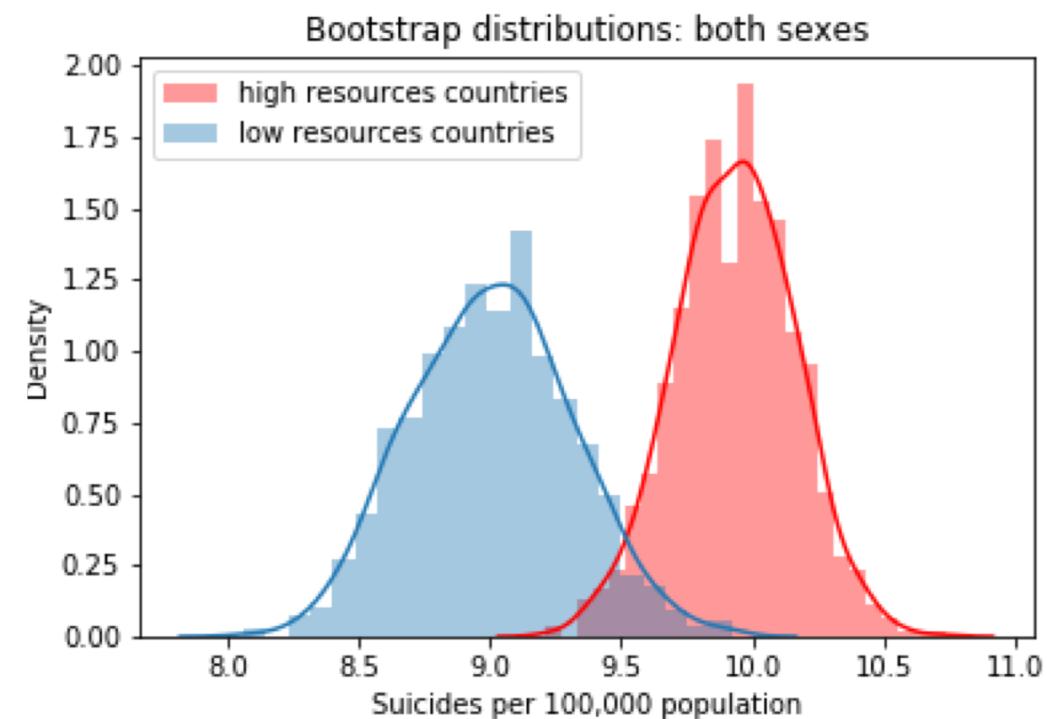
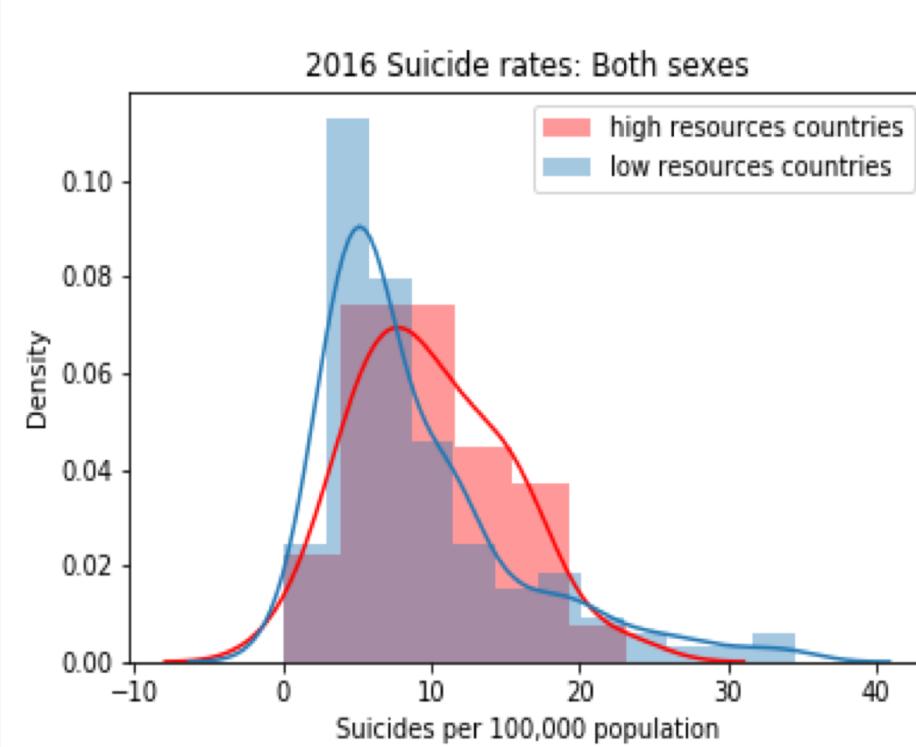
Females of
Low Resource
Countries
Group

RESULTS

Test 1

Countries with Higher Resources Group

Countries with Lower Resources Group

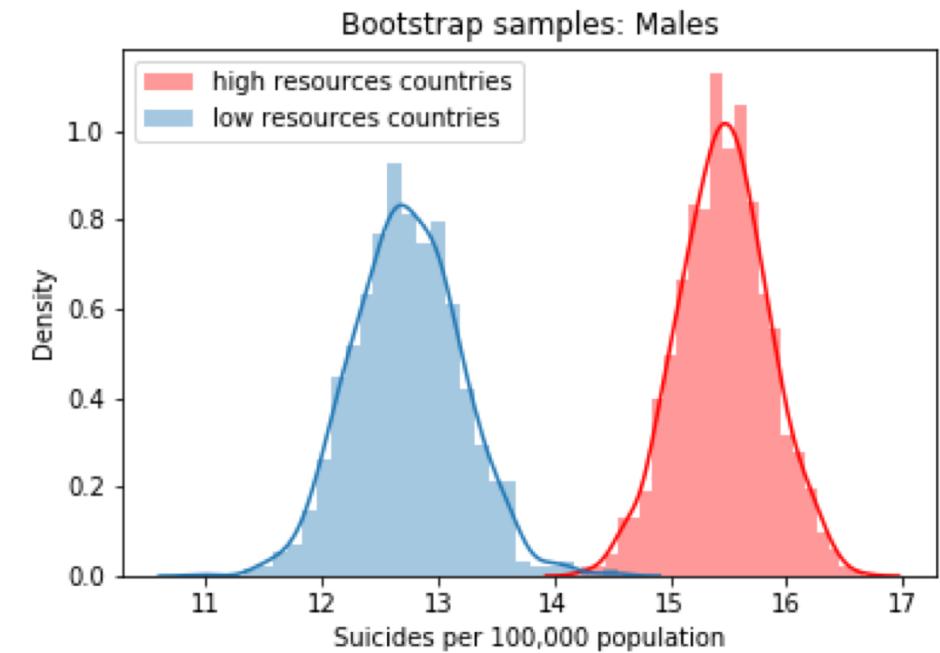
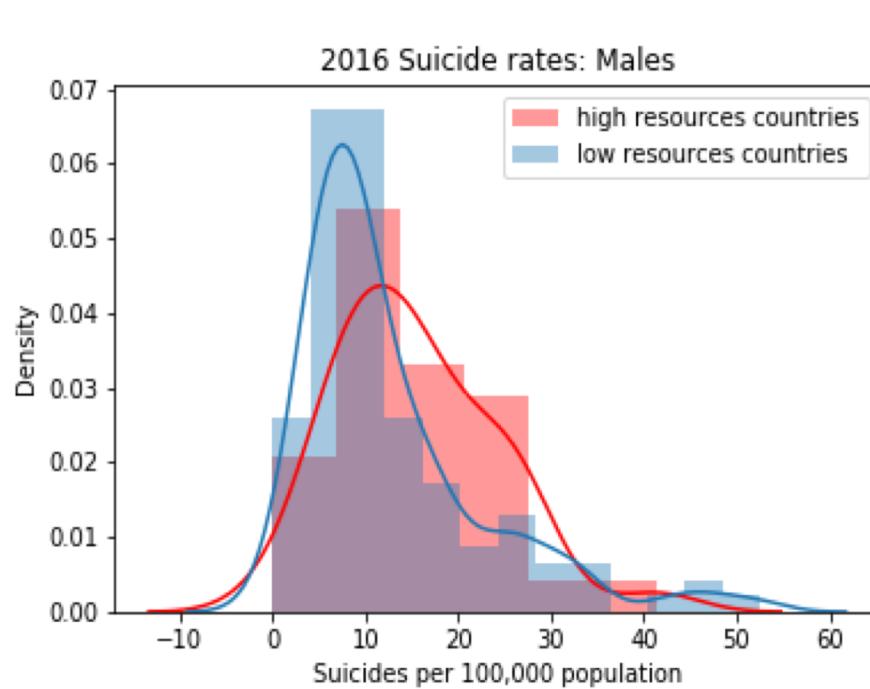


RESULTS

Test 2

Males of High Resource Country Group

Males of Low Resource Country Group

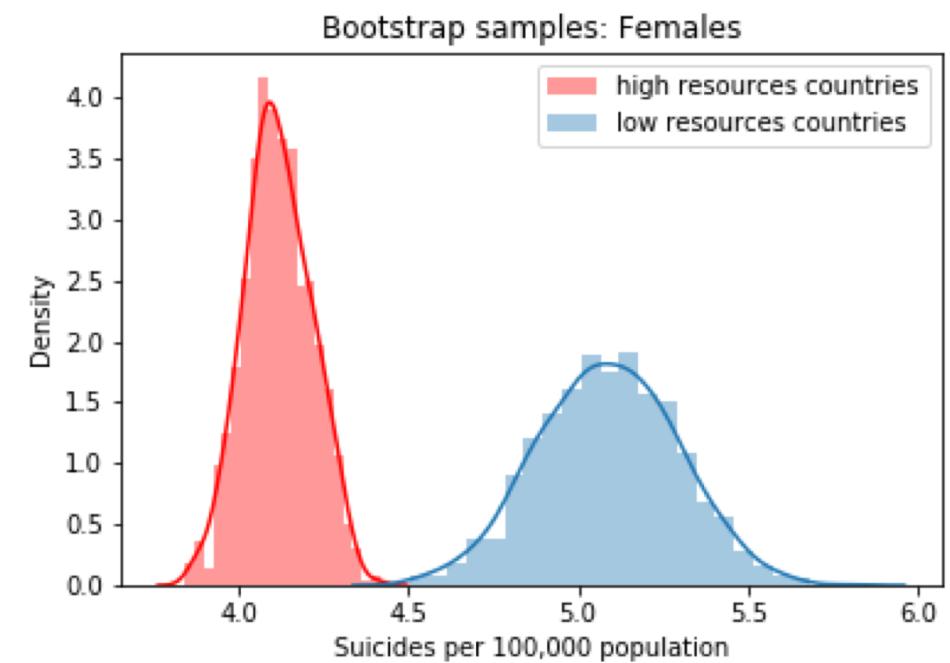
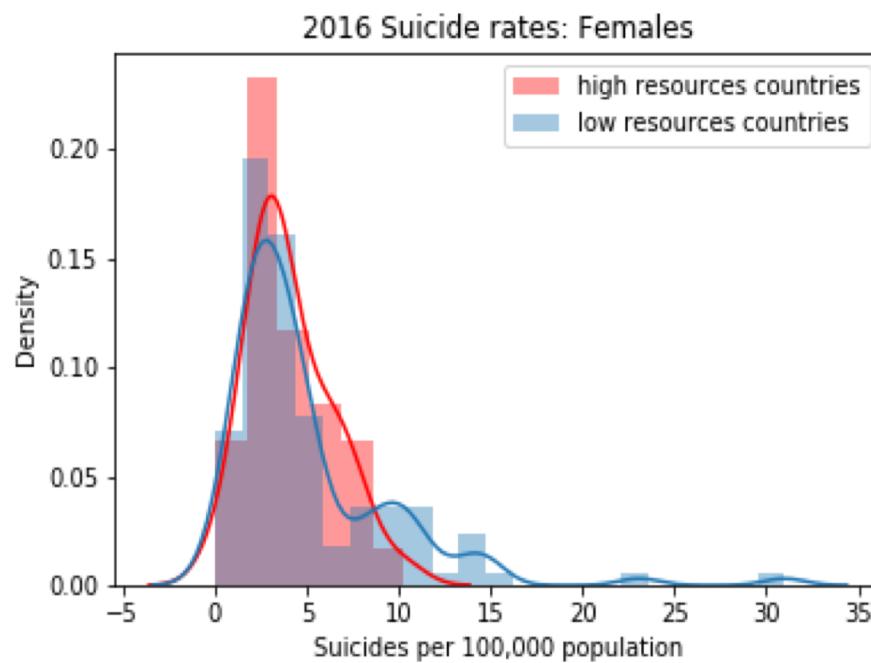


RESULTS

Test 3

Females of
High Resource
Countries
Group

Females of
Low Resource
Countries
Group



DISCUSSION

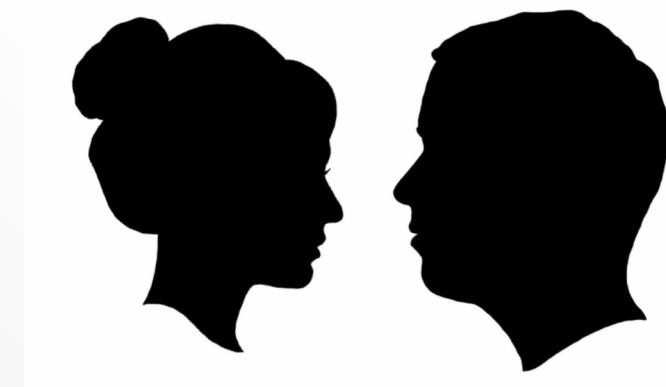
- **Test 1**

- observed a higher mean distribution of suicide rates in high resource countries and a lower mean distribution of suicide rates in low resource countries
- using suicide rate as a proxy for mental health resource effectiveness
- the broad scope of mental health illnesses encompassed by the WHO's ICD-10
- suicide reporting not being standardized across all countries
- legality and socio-demographic trends



DISCUSSION

- **Test 2 and 3**
 - higher mean distribution of male suicide rates in high resource countries
 - lower mean distribution of female suicide rates in high resource countries
- differences between female and male suicide methods
- time allowed for intervention



RECOMMENDATIONS AND APPLICATIONS

Research	Policy	Business
<ul style="list-style-type: none">• Further comparative research analyses on the predictive factors influencing mental health in low and middle income countries	<ul style="list-style-type: none">• Standardized and uniform data collection and classification system for mental health illness	<ul style="list-style-type: none">• Implementing early screening modalities to make the most use of intervention methods (which are time dependent)

SOURCES

- World Health Organization's "Global Health Observatory Data Repository"
- Hannah Ritchie and Max Roser (2019) - "Mental Health". Published online at OurWorldInData.org. Retrieved from: '<https://ourworldindata.org/mental-health>' [Online Resource]



World Health Organization

THANK YOU FOR YOUR ATTENTION

QUESTIONS?

