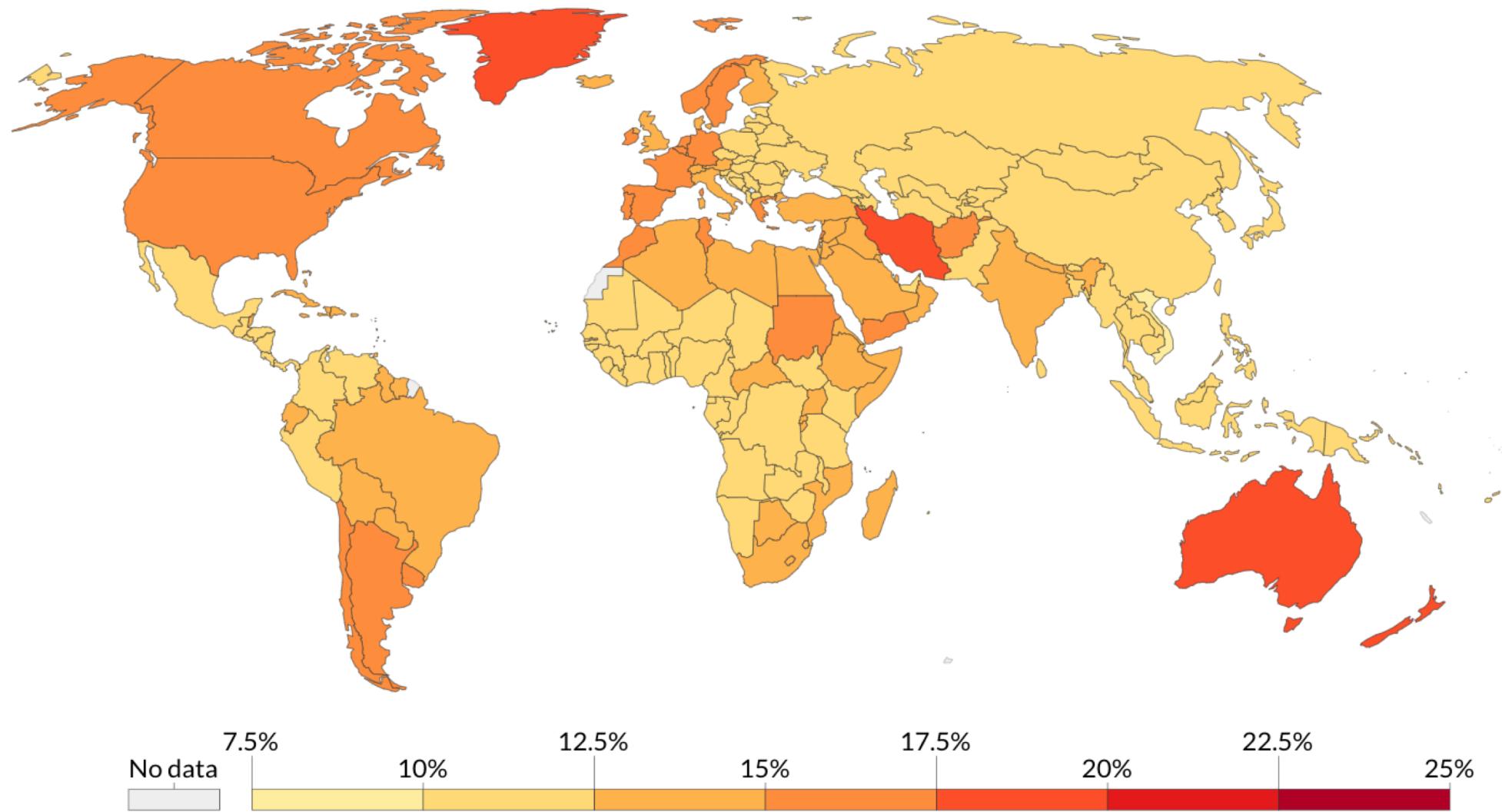


A STATISTICAL ANALYSIS OF MENTAL HEALTH RESOURCES AND GLOBAL SUICIDE RATES

**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

High Resource
Country Group

Low Resource
Country Group

Test 2

Males of High
Resource
Country Group

Males of Low
Resource
Country Group

Test 3

Females of
High Resource
Country Group

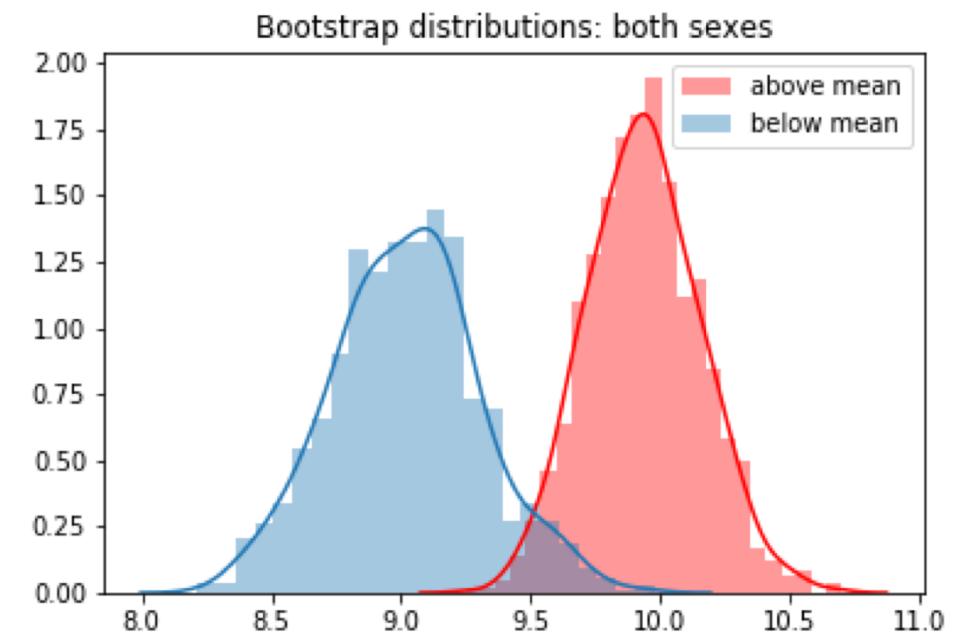
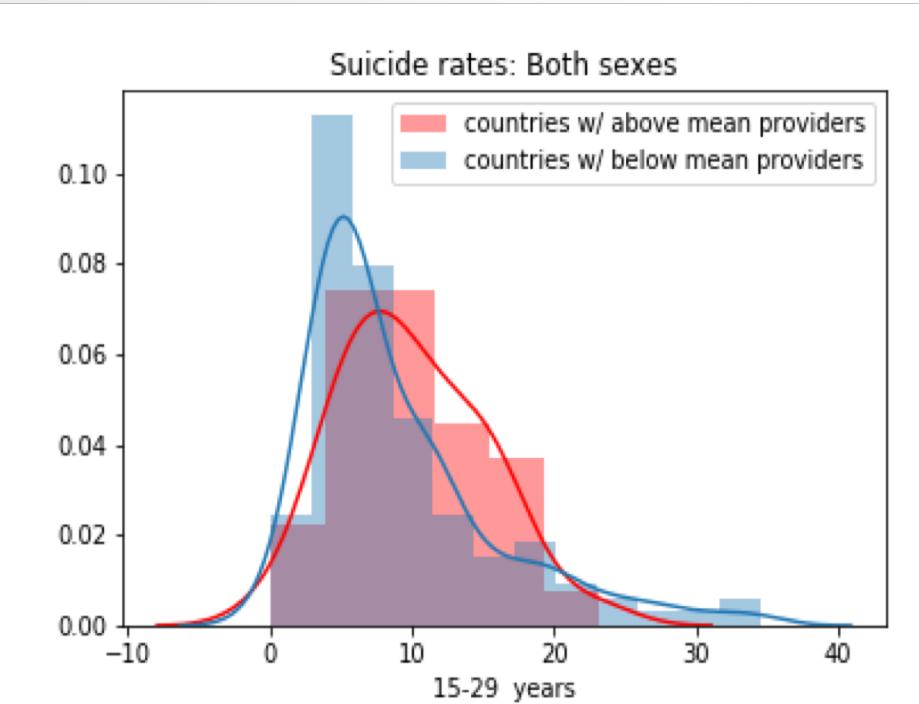
Females of
Low Resource
Country Group

RESULTS

Test 1

High Resource Country Group

Low Resource Country Group
Test 2

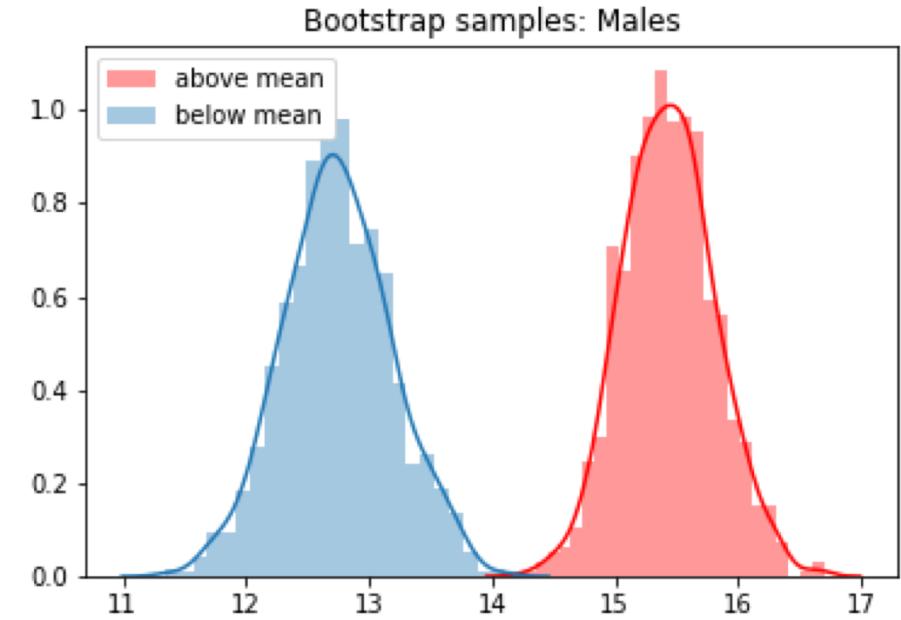
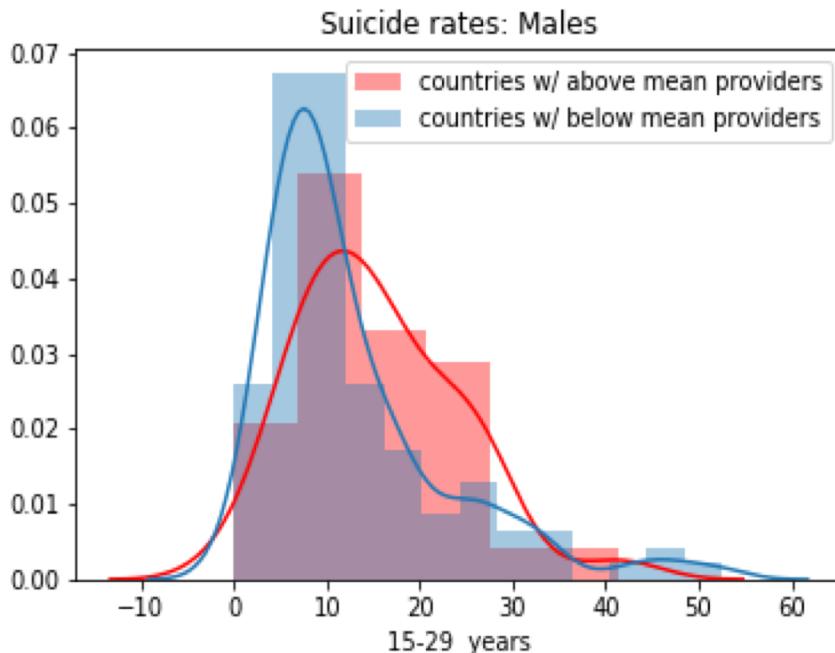


RESULTS

Test 2

Males of High Resource Country Group

Males of Low Resource Country Group

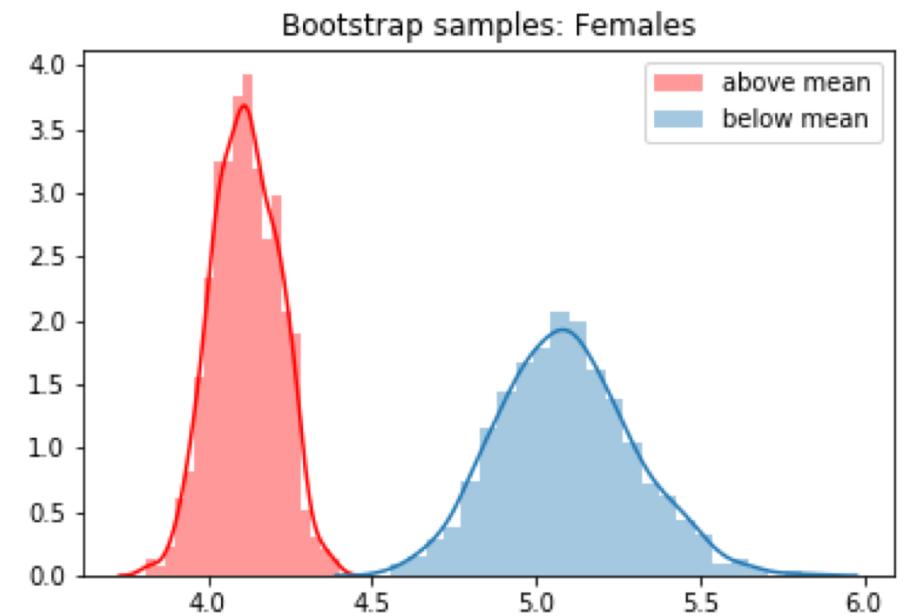
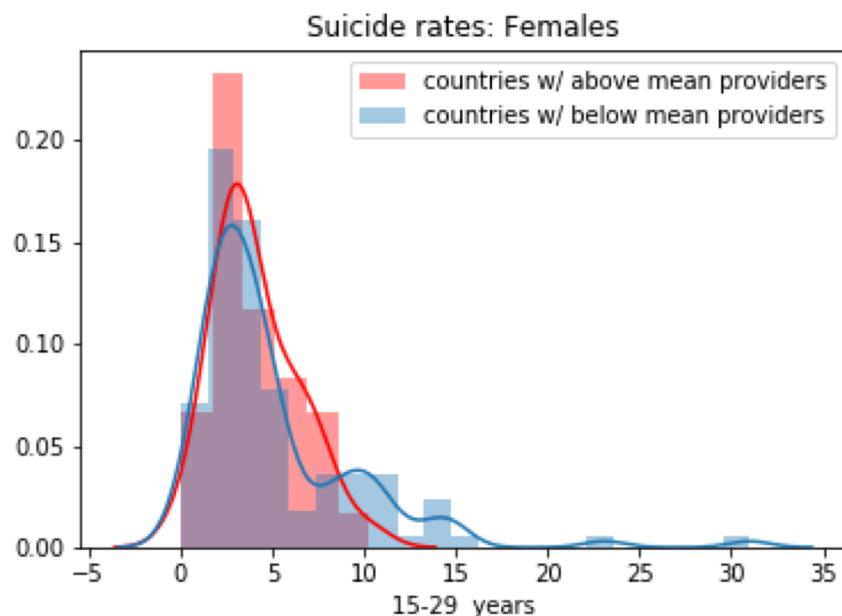


RESULTS

Test 3

Females of High Resource Country Group

Females of Low Resource Country Group



DISCUSSION

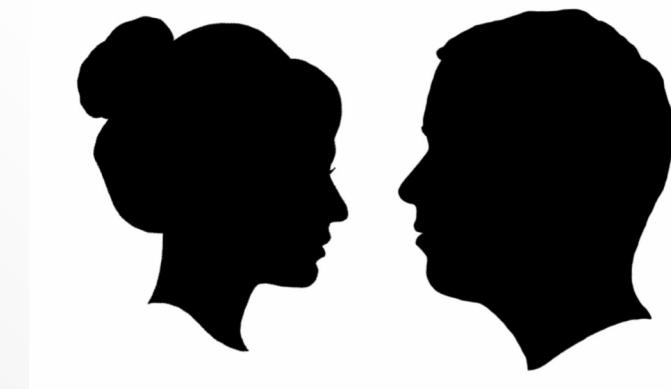
- **Test 1**

- observed a higher mean distribution of suicide rates in high resource countries and a lower mean distribution of suicide rates in low resource country
- 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 and a lower mean distribution of male suicide rates in low resource country
 - lower mean distribution of female suicide rates in high resource countries and a higher mean distribution of female suicide rates in low 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">• Effective allocation of resources toward mental health illness for increased well-being and productivity

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?

