Through State Level Income Inequality and Neuroticism The Predictability of U.S Drug Deaths

HYPOTHESIS 1

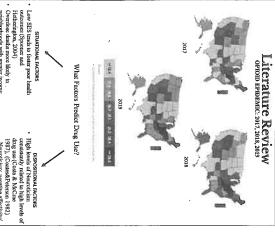
Discussion

Neuroticism and Drug Deaths

Positive correlations are consistent with past studies
Income Inequality and Drug Deaths
 Negative relationship for Asians They were consistently the highest
income earning group in the U.S. between 1999 and 2015 (Fontenot
et. al., 2018) (p value=.03)

HYPOTHESIS 2

uroticism and Income Inequality
Significance for African Americans: the lowest income earning group from 1999 to 2015 (Fontenot et. al, 2018) (p value=.02)



- Overdose deaths more likely in
- neighborhoods with greater income makinstribution (Galea, 2003)

 Income Inequality— moderator in relationship between income level and life satisfaction (Cheung, 2016)

 Participants more impacted by period of the control of the con
- Comparison
 "STTUC": Sensitivity About Being the Target of a Threatening Upward Comparison (Exline&Lobel, 1999) equality and Social

 - Comparison (Vanderzee et. al, 1996)
 The need to make a social Digarette smokers: high N Cocaine/heroin users high N 7), (Coates&Peterson 1982)
 uurolicism: negative affectivity/
 lering reactions to stress
 lonality profile of drug users
 specieso 2018)

Hypotheses

- Income Inequality and Neuroticism are related to drug deaths
- The relationship between income inequality and drug deaths is moderated by neutrotissin. Individuals who live in states with high income inequality and have high tevels of Neutrotissins are at a greater risk for drug death than individuals with low neuroticism.

separately and independently

Materials and Methods

- Recorded by the CDC per state and by gender, race, age, etc.
- Income Inequality
 2018 Gini coefficients: U.S. Census Bureau
- Rentfrow et. al's study Divided We Stand: Three Psychological Regions of the U.S. and their Political, Economic, Social, and Health Correlates National personality data collected across various samples, years, and studies een 1999-2010

Statistical Analyses

- Unit of Analysis: state level
 Problem (variables: Income inequality and Neuroticism
 Problem (variables: Droug Deaths
 Christian Wariables: Drug Deaths
 (Two inited Pearson correlations @ and linear regressions through SPSS
 Significance; puther < 0.5
 Each manalysis completed 8 times using data für
 Each manalysis completed 8 times using data für
 Make drug deaths

- White drug deaths
 African American drug deaths
 Asian American/Pacific Islander drug deaths
 American Indian/Alaska Native drug deaths
- Hispanic drug deaths

low income inequality and low neuroticism low income inequality and high neuroticism high income inequality and low neuroticism high income inequality and low neuroticism high income inequality and high neuroticism Predicted drug death values for 4 subgroups Results PREDICTED AFRICAN AMERICAN DRUG DEATHS Take & Super LH PEARSON CORRELATIONS ana ana LINEAR REGRESSIONS 2244111 281 M. W. W. ző. blin 660 San bb e 100 Sec 565 162 283 122 645 ×6£ \$25 B *** S g kg we g 828 Sec 批准製

16.46 + .28(neuroticism) + -21.109 (Gini) + -11+21.33(neuroticism x Gini)

CORRELATIONS

- Neuroticism and Drug Deaths
 Positive correlations: 2018 Drug Deaths (p=.00), Males(p=.00), Females(p=.00), Whites(p=.00), Hispanies (p=.04)
- Income inequality and Drng Deaths
 Positive correlations: Males (p=.02)
 Negative correlations: Asians/ Pacific Islanders (p=.02), American Indian/Alaska Native (p=.02)
- Neuroticism and Income Inequality No significant correlations

REGRESSIONS Neuroticism and Income Inequality

Significance for African American Drug Deaths (p=.02)

African American Deep Deaths in States with Varying forcum inequality and Ferminana Andread of the second Varying Levils of listens leapship and Sementine The pay 34 women 1811 24 PK 88 5 8 2 2 2 3

Multi faced approach to implications

Assess social comparison within the study Account for confounding variables

programs, and disparity between wealthy and poor
The relationships between multiple situational and dispositional

Comparison of U.S. and other country's drug use rates, healthcare Unit of Analysis→ Individual, County, Country

Future Research

Assumption that Social Comparison occurs--- theoretical model Openness, Conscientiousness) over geographic area Inability to assess all confounding variables • Age, Drug type, Education level, Neighborhood Collection of data was at different times

Limitations

Personality data compiled between 1999-2010

Gini coefficients/Drug death data from 2018 Elleman, Condon, Russin, and Revelle's study (2018) indicates the stability of three of the Big 5 personality traits (Neuroticism

- treating addiction and international level to Analysis of results on local
- understand trends
- Targeting specific populations and
- Understanding which combination of
- circumstances may suggest vulnerability to drug use

geographic areas are most afflicted understanding which Profest statistas

Bibliography

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