

# Social Determinants of Health- Looking closer at racial, economic and geographical disparities in health outcomes.

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Moderator: Carole Treston, RN MPH ACRN FAAN

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# Social Determinants of Health-Agenda

Definitions & Maps

SDH and HIV

Mapping your community

SDH and Environmental Crisis

SDH, health and Black men in the South

SDH, health and Transgender People

Resources



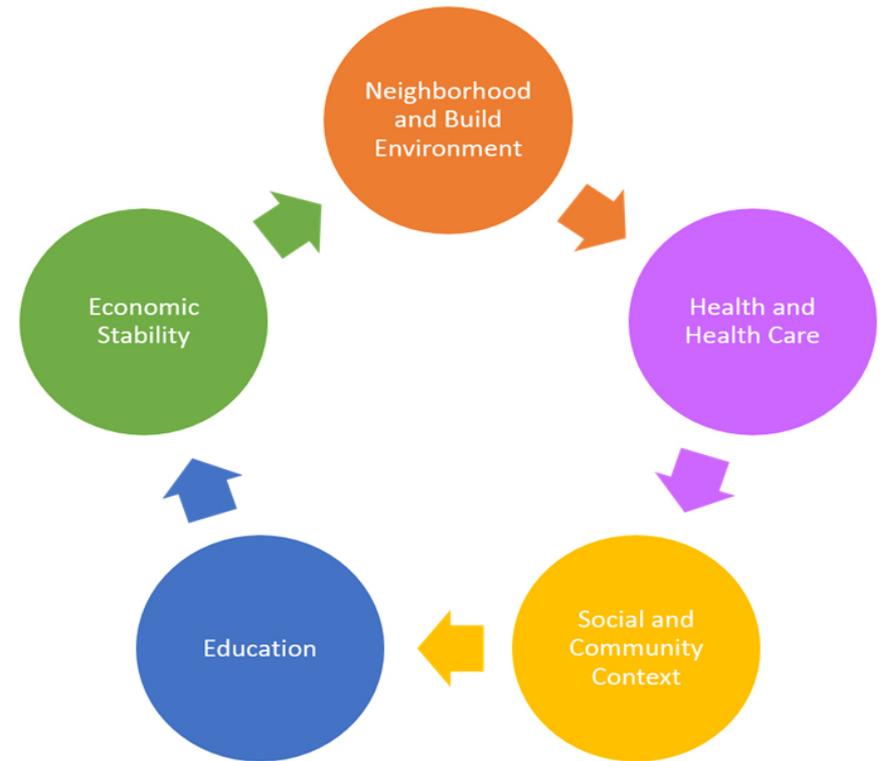
# Meet Jason



# SOCIAL DETERMINANTS OF HEALTH

*“the causes behind the causes”*

- The overlapping social structures and economic systems — **social environment, physical environment, health services, and structural & societal factors** — that are responsible for most health inequities



Definitions

Statistics

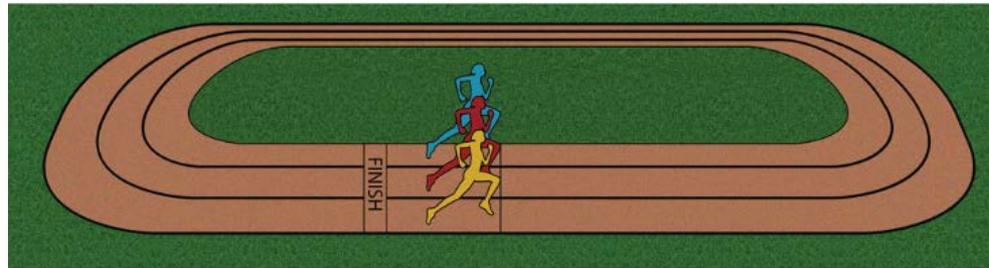
Models

Examples

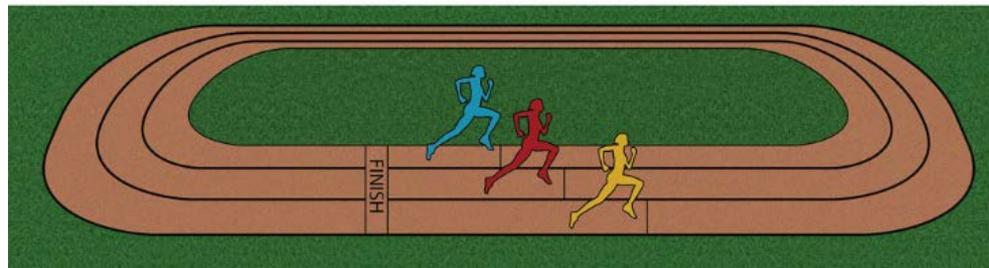
References

# HEALTH EQUITY

Everyone has the opportunity to attain their **HIGHEST** level of health.



EQUALITY



EQUITY

Definitions

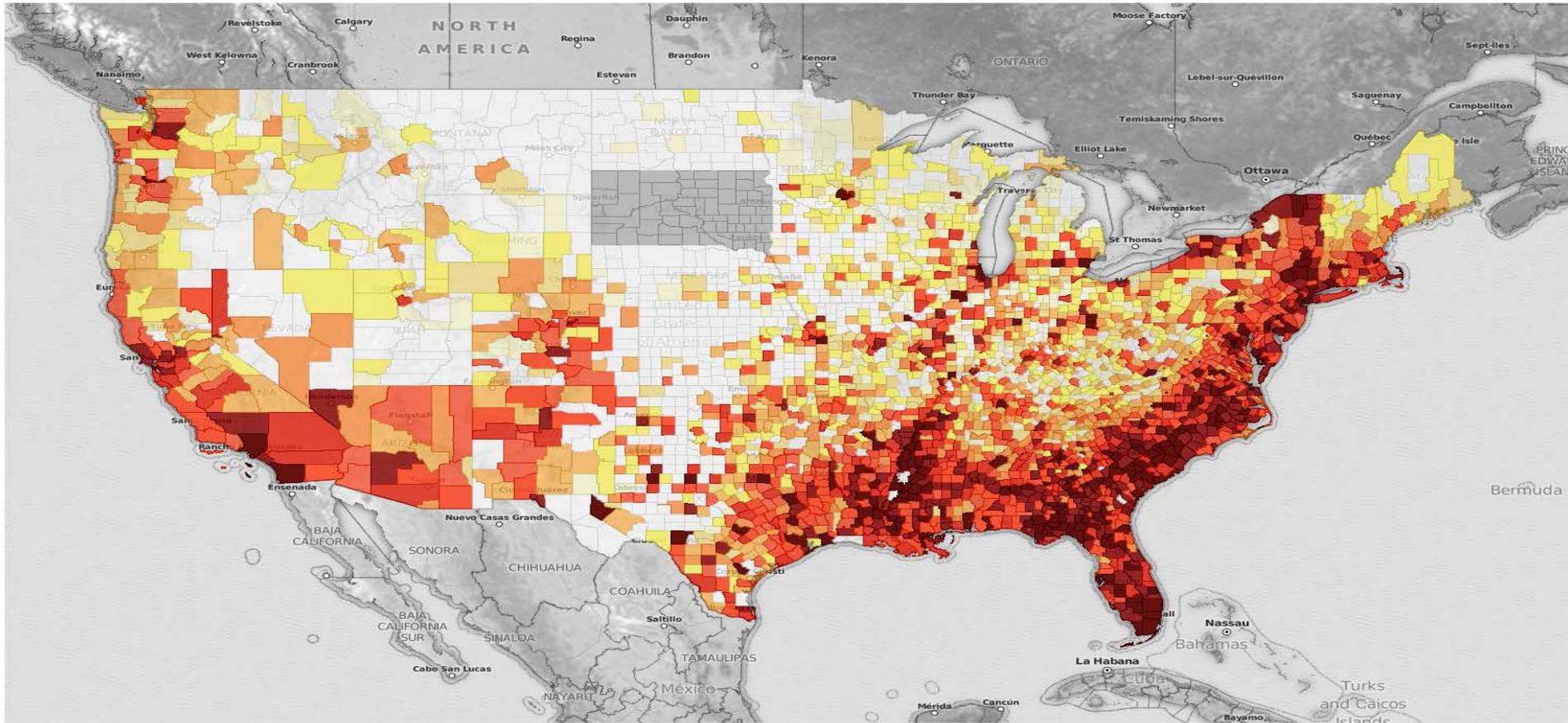
Statistics

Models

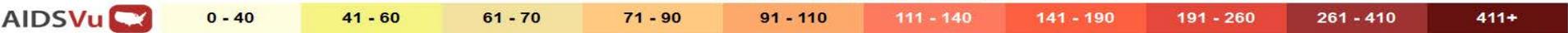
Examples

References

# HIV Prevalence, 2013

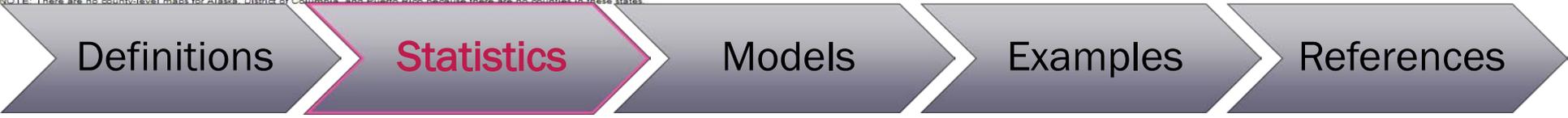


Rates of Persons Living with Diagnosed HIV, 2013

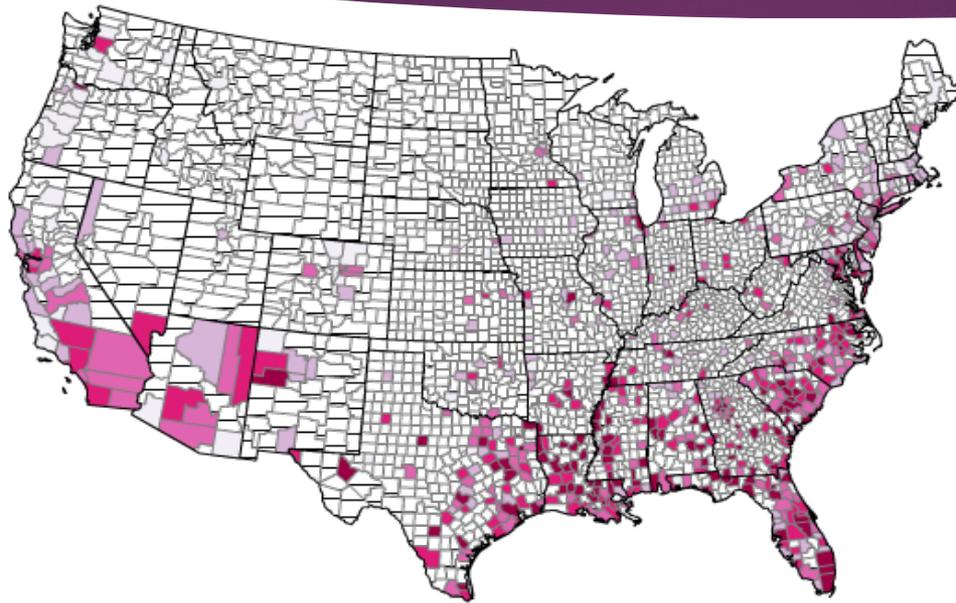


DATA NOT SHOWN \*   
 DATA NOT RELEASED TO AIDS VU \*\*

Click to view [Alaska](#) | [Hawaii](#) | [Puerto Rico](#) | [Contiguous US](#) | [Data Methods](#) | [Data Sets](#)  
 Rates displayed are the number of cases per 100,000 people.  
 \*Data not shown to protect privacy because of a small number of cases and/or a small population.  
 \*\* State health department, per its HIV data re-release agreement with CDC, requested not to release data to AIDSvu. See Data Methods for more information.  
 NOTE: There are no county-level maps for Alaska, District of Columbia, and Puerto Rico because there are no counties in these states.



# HIV Diagnoses, 2014

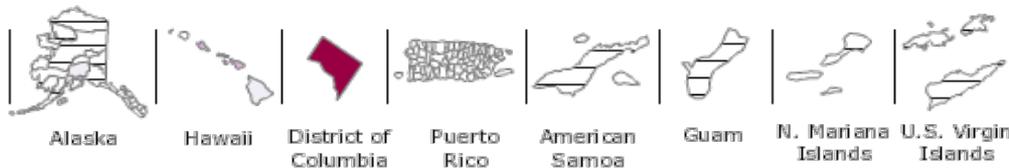
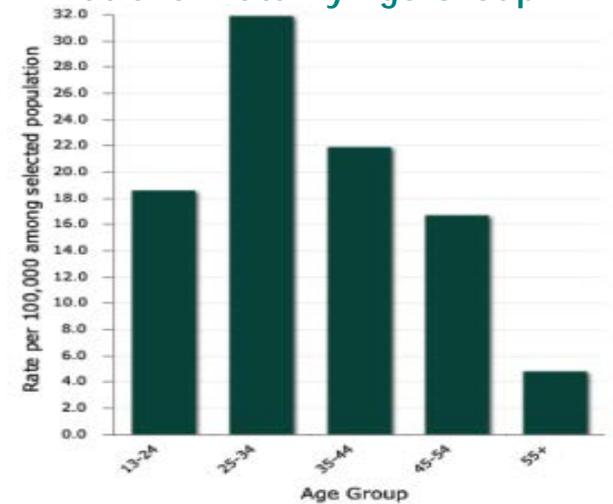


Rate per 100,000 among selected population



Legend classified using quantiles according to 2014 data.

## National Data By Age Group



Definitions

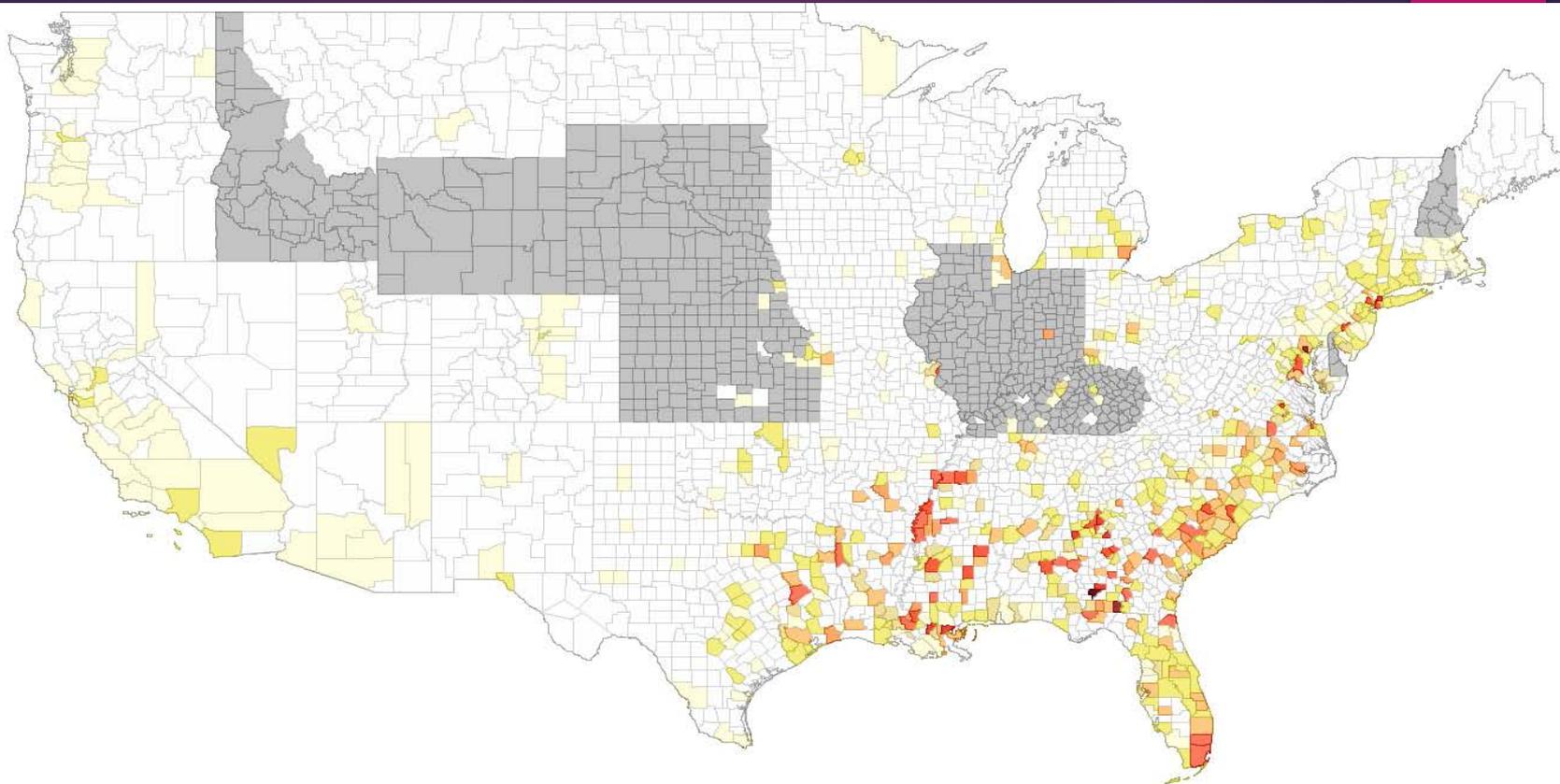
**Statistics**

Models

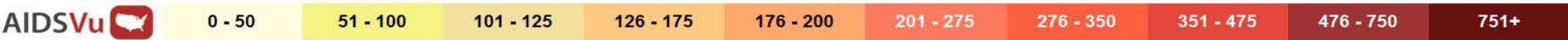
Examples

References

# HIV prevalence among 13 to 24 year olds, 2013



Rates of Persons, aged 13 to 24, Living with Diagnosed HIV, 2013



Definitions

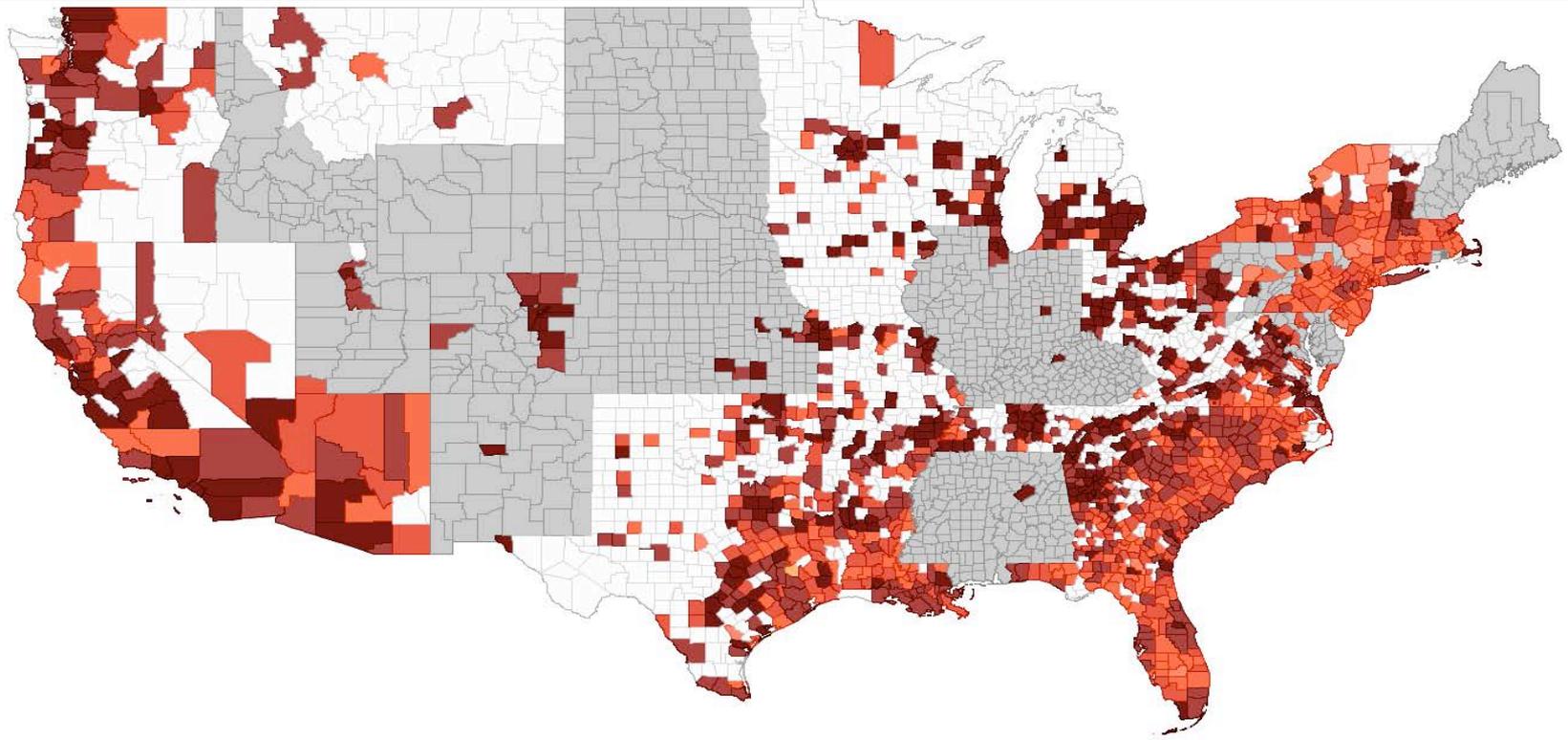
**Statistics**

Models

Examples

References

# HIV in MSM Prevalence, 2013



Percent of Males Living with Diagnosed HIV Attributed to Male-to-Male Sexual Contact, 2013



0 - 6.0

6.1 - 8.0

8.1 - 10.0

10.1 - 12.0

12.1 - 18.0

18.1 - 30.0

30.1 - 56.0

56.1 - 66.0

66.1 - 76.0

76.1+

Definitions

**Statistics**

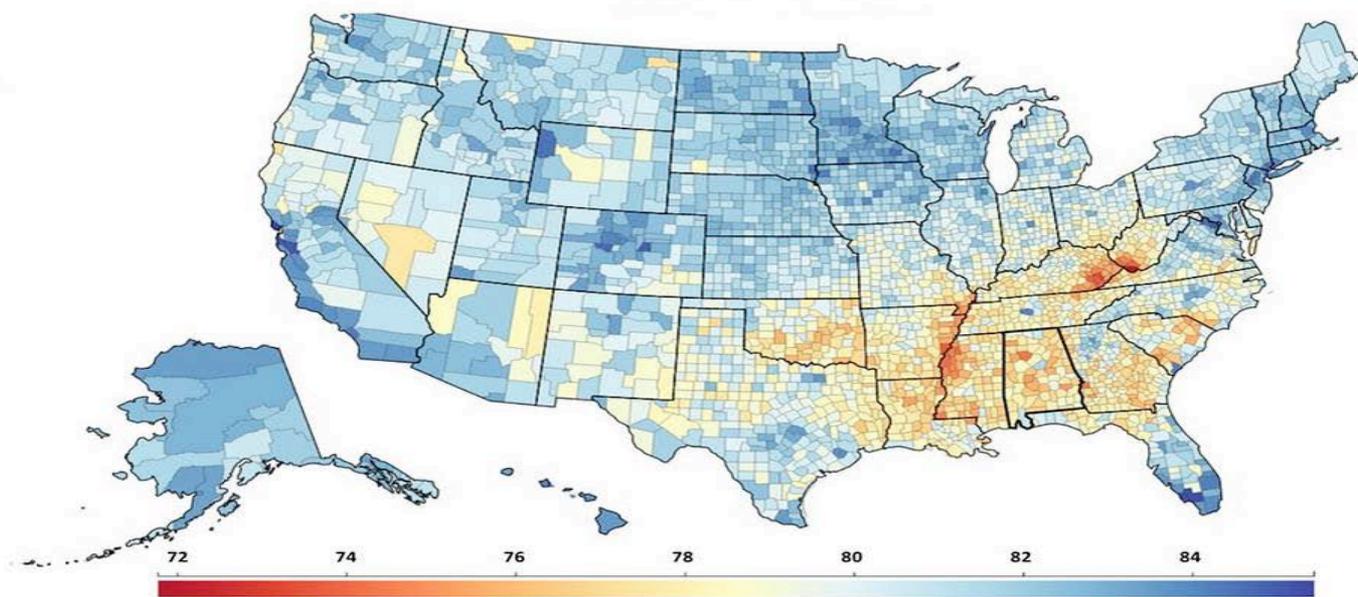
Models

Examples

References

# HEALTH DIVISIONS: North VS. South

## Life Expectancy of Females by County, 2012



Institute for Health Metrics and Evaluation (IHME). US Health Map. Seattle, WA: IHME, University of Washington, 2015. Available from <http://vizhub.healthdata.org/us-health-map>. (Accessed March 31, 2016.)

Definitions

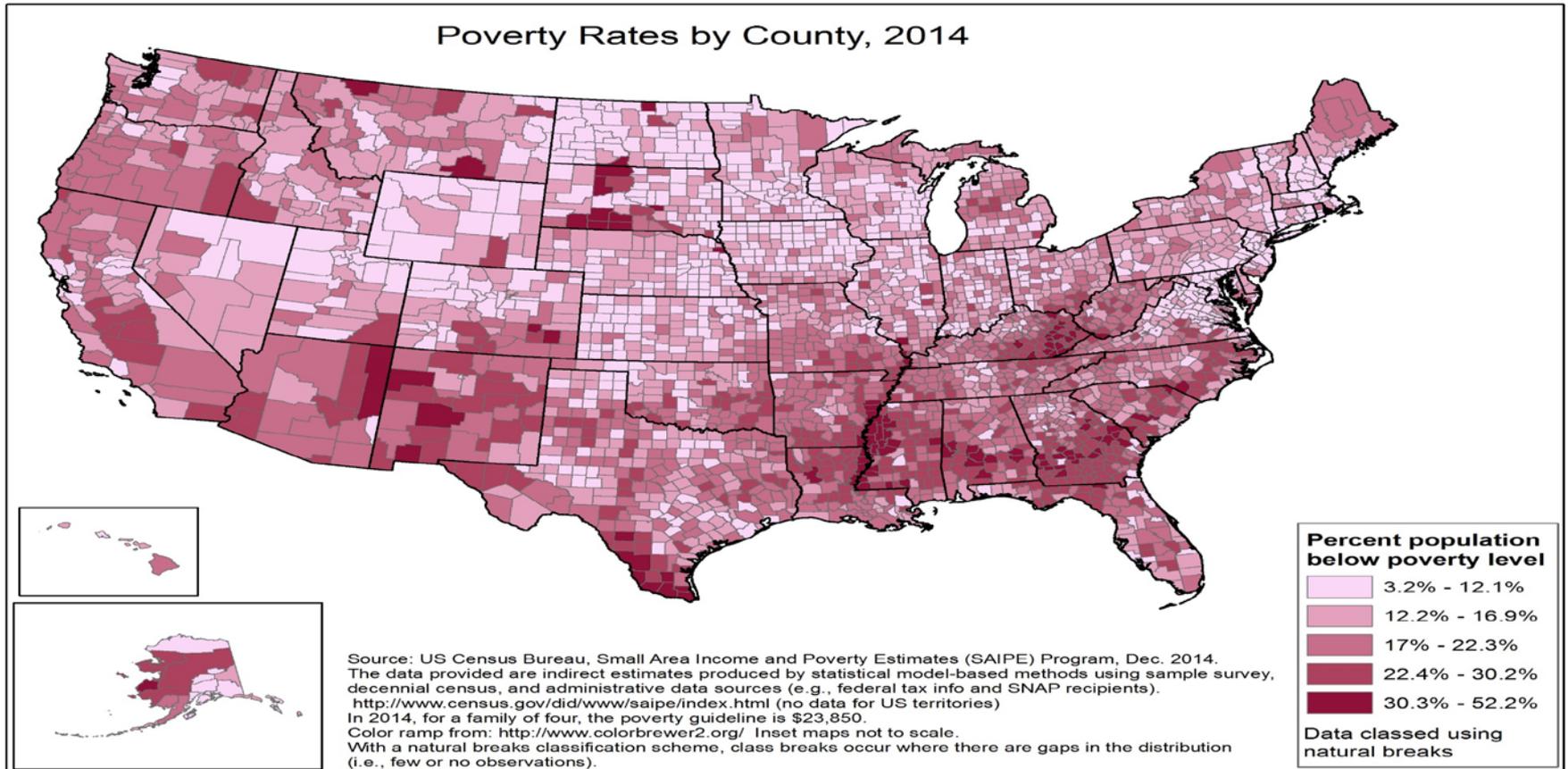
**Statistics**

Models

Examples

References

# Poverty Rates by County, 2014



Definitions

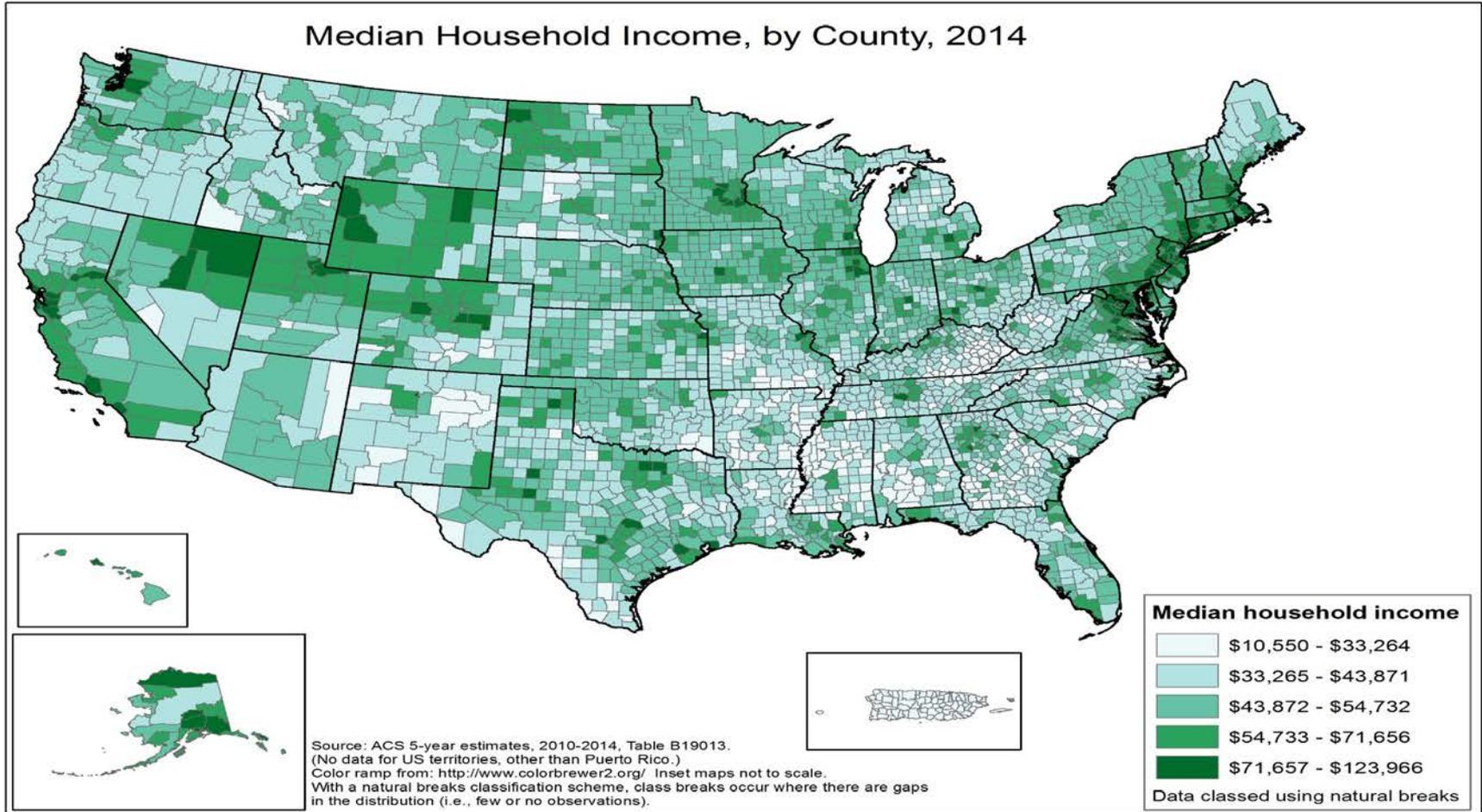
**Statistics**

Models

Examples

References

# Median Household Income, by County, 2014



Definitions

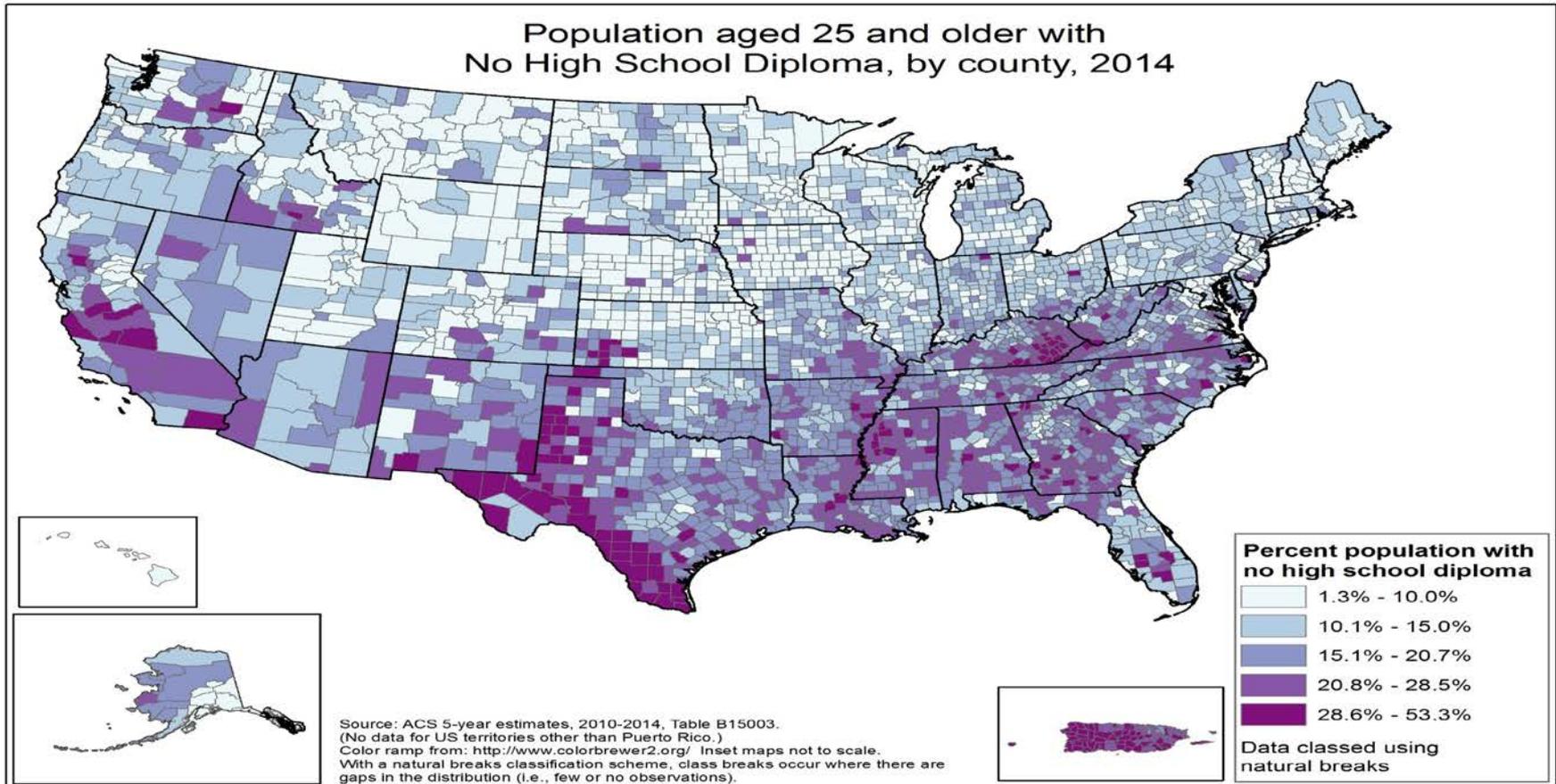
**Statistics**

Models

Examples

References

# Population 25+ with NO High School Diploma, 2014



Definitions

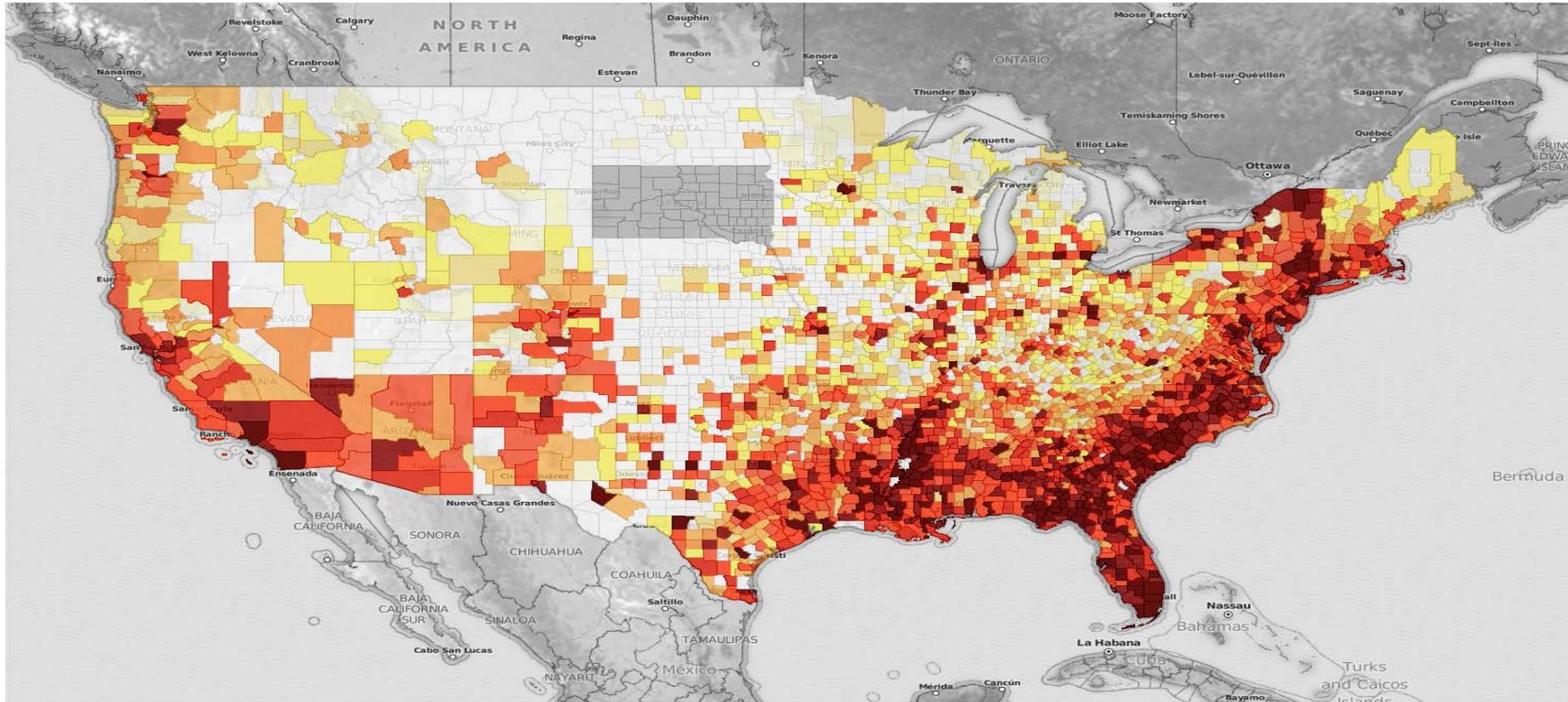
**Statistics**

Models

Examples

References

# Revisiting HIV Prevalence, 2013



AIDSvu

0 - 40

41 - 60

61 - 70

71 - 90

91 - 110

111 - 140

141 - 190

191 - 260

261 - 410

411+

DATA NOT SHOWN \*

DATA NOT RELEASED TO AIDSvU \*\*

[Click to view Alaska](#) | [Hawaii](#) | [Puerto Rico](#) | [Contiguous US](#) | [Data Methods](#) | [Data Sets](#)

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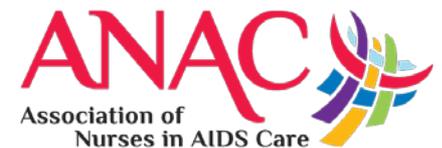
Examples

References

# Social Determinants of Health- Discussion

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Predominant SDH or structural factor that affect HIV health outcomes



# Social Determinants of Health- Discussion

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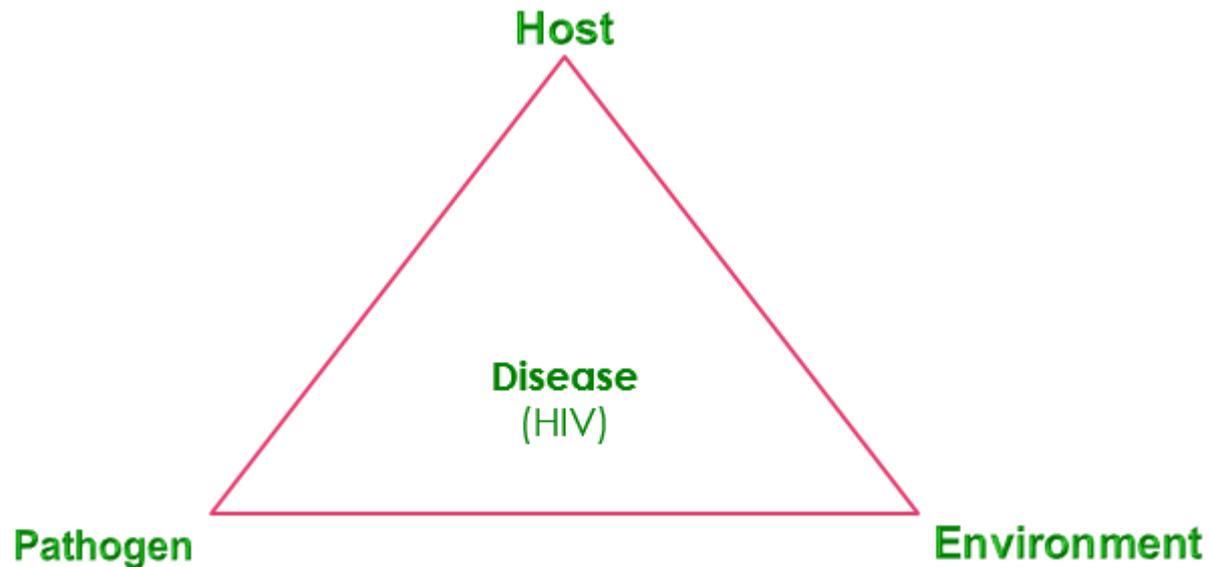
Mapping Your Community:

<https://nccd.cdc.gov/DHDSPAtlas/Default.aspx>

Interactive Display via WIFI



# Global Change & Human Vulnerability Triangle



Definitions

Statistics

**Models**

Examples

References

# 5 Determinants of Population Health

## ❖ BIOLOGY AND GENETICS

- ❖ Sex

## ❖ INDIVIDUAL BEHAVIOR

- ❖ Alcohol/Injection drug use, Unprotected Sex, Smoking, etc.

## ❖ SOCIAL ENVIRONMENT

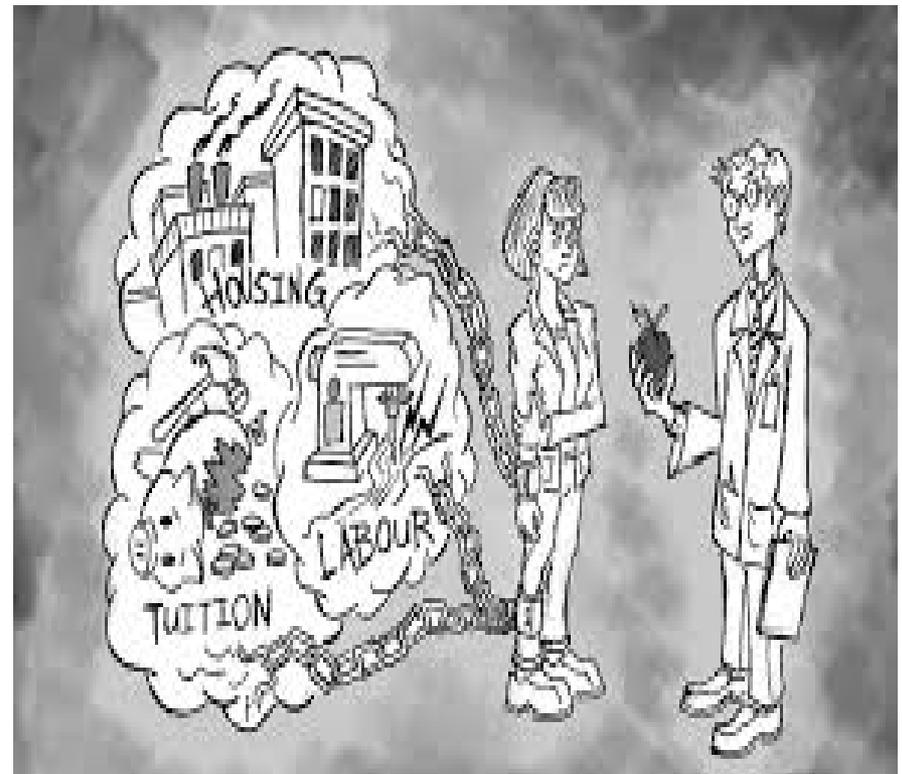
- ❖ Discrimination/Income/Education Level/Martial Status

## ❖ PHYSICAL ENVIRONMENT

- ❖ Place of residence/Crowding Conditions/Built environment - buildings, spaces, transportation systems--/Products modified by people.

## ❖ HEALTH SERVICES

- ❖ Access to care/Quality of Care/Insurance Status



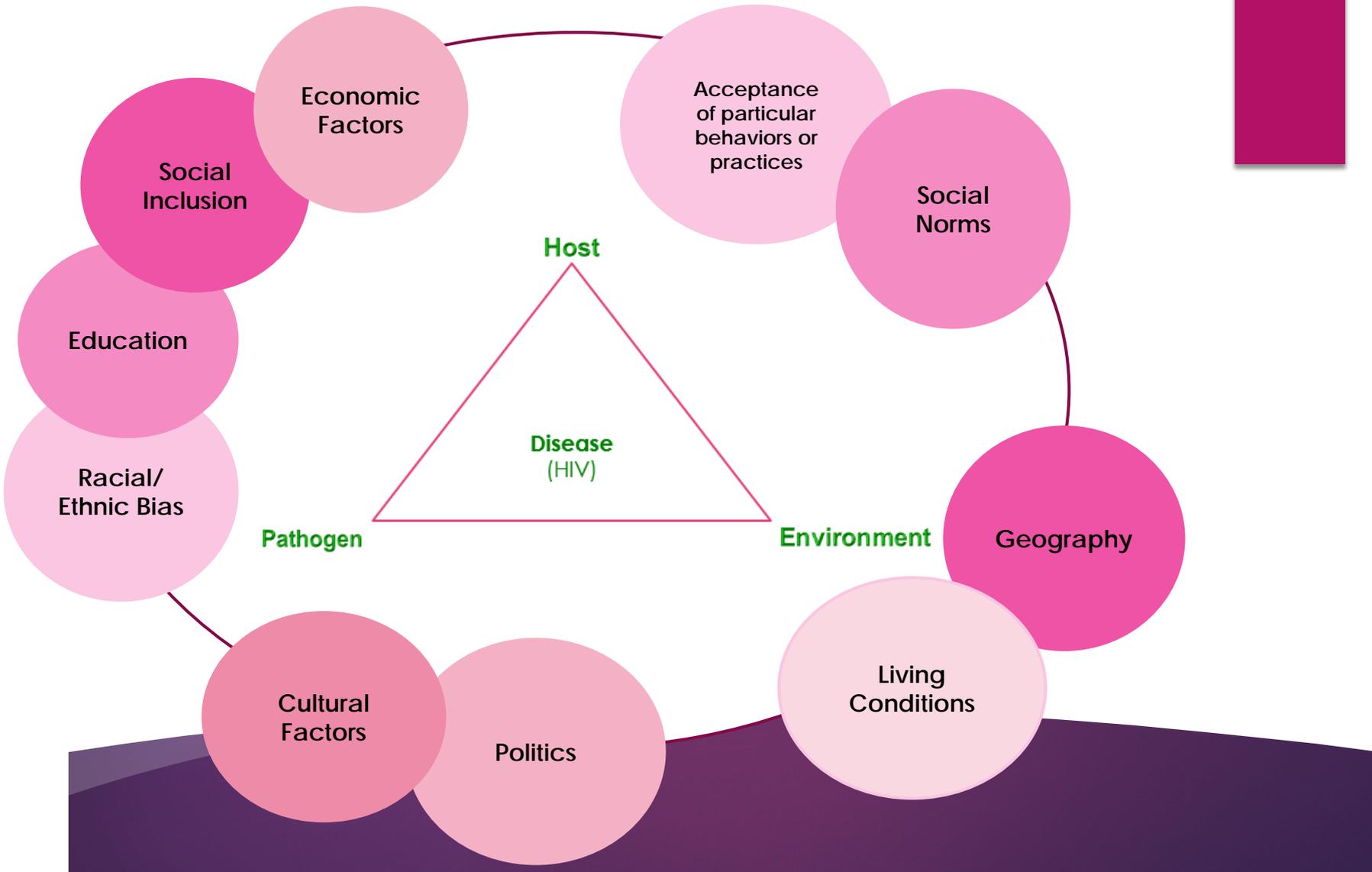
Definitions

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**Models**

Examples

References



# SDH Model with Global Change

# Difference in the Models

- ❑ Historically, many public health efforts have focused on **INDIVIDUAL BEHAVIORS** rather than **THE SYSTEMS** that cause/perpetuate the spread of the infectious agent.
- ❑ Interventions to address SDH consider the **SOCIAL AND PHYSICAL ENVIRONMENTS** of the vulnerable population, *rather than the environmental conditions as related to the survival of the infectious agent.*

Definitions

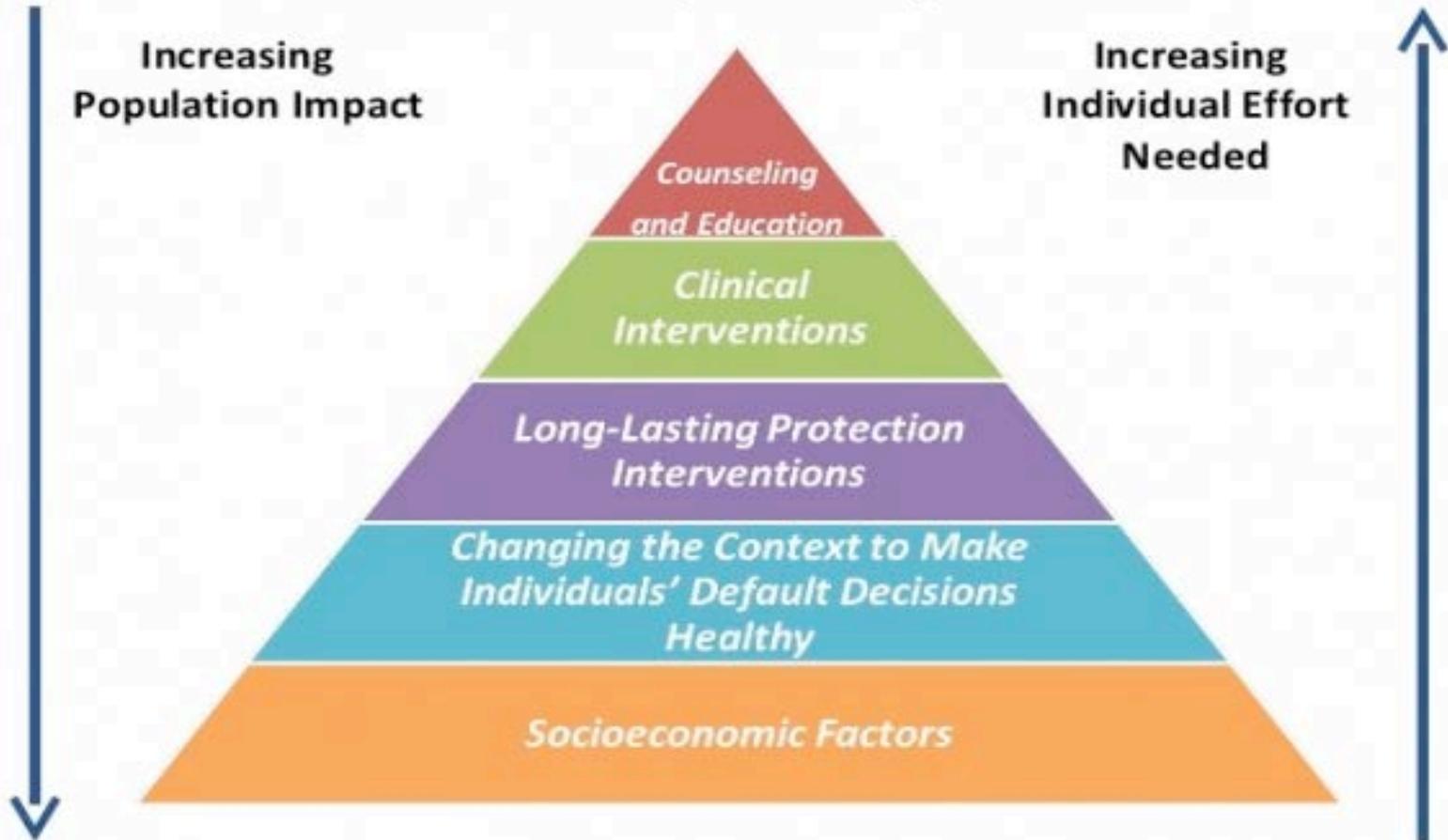
Statistics

**Models**

Examples

References

# Health Impact Pyramid



Frieden T. American Journal of Public Health | April 2010, Vol 100, No. 4

Definitions

Statistics

**Models**

Examples

References

# SPECIFIC Social Determinants of Health

- ▶ **SOCIAL AND COMMUNITY CONTEXT:** Social Cohesion, Civic Participation, Discrimination and Incarceration
- ▶ **HEALTH AND HEALTH CARE:** Access to health care, Access to primary care and health literacy
- ▶ **EDUCATION:** High school graduation, Enrollment in Higher Ed, Language and literacy and Early childhood education and development ( including Adverse childhood events “ACES”)
- ▶ **NEIGHBORHOOD AND BUILT ENVIRONMENT:** Quality of housing, Crime and violence and Environmental conditions.
- ▶ **ECONOMIC STABILITY:** Poverty, Employment, Food insecurity, Housing instability

Definitions

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Examples

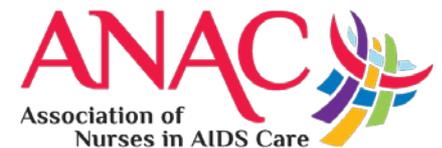
References

# Social Determinants of Health-Discussion

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What's not on the previous slide?

What needs more attention?





It turns out that just as the AIDS virus seems almost designed to perfectly exploit the weakness of the human immune system, **treating it seems designed to exploit the weaknesses of our national health care system.**

HOBBS, 2014

Definitions

Statistics

**Models**

Examples

References

Ultimately, it comes down to.....

- ECONOMIC INEQUALITY
- SOCIAL CONNECTEDNESS
- A SENSE OF EFFICACY

Definitions

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References

# Social Determinants of Health- Discussion

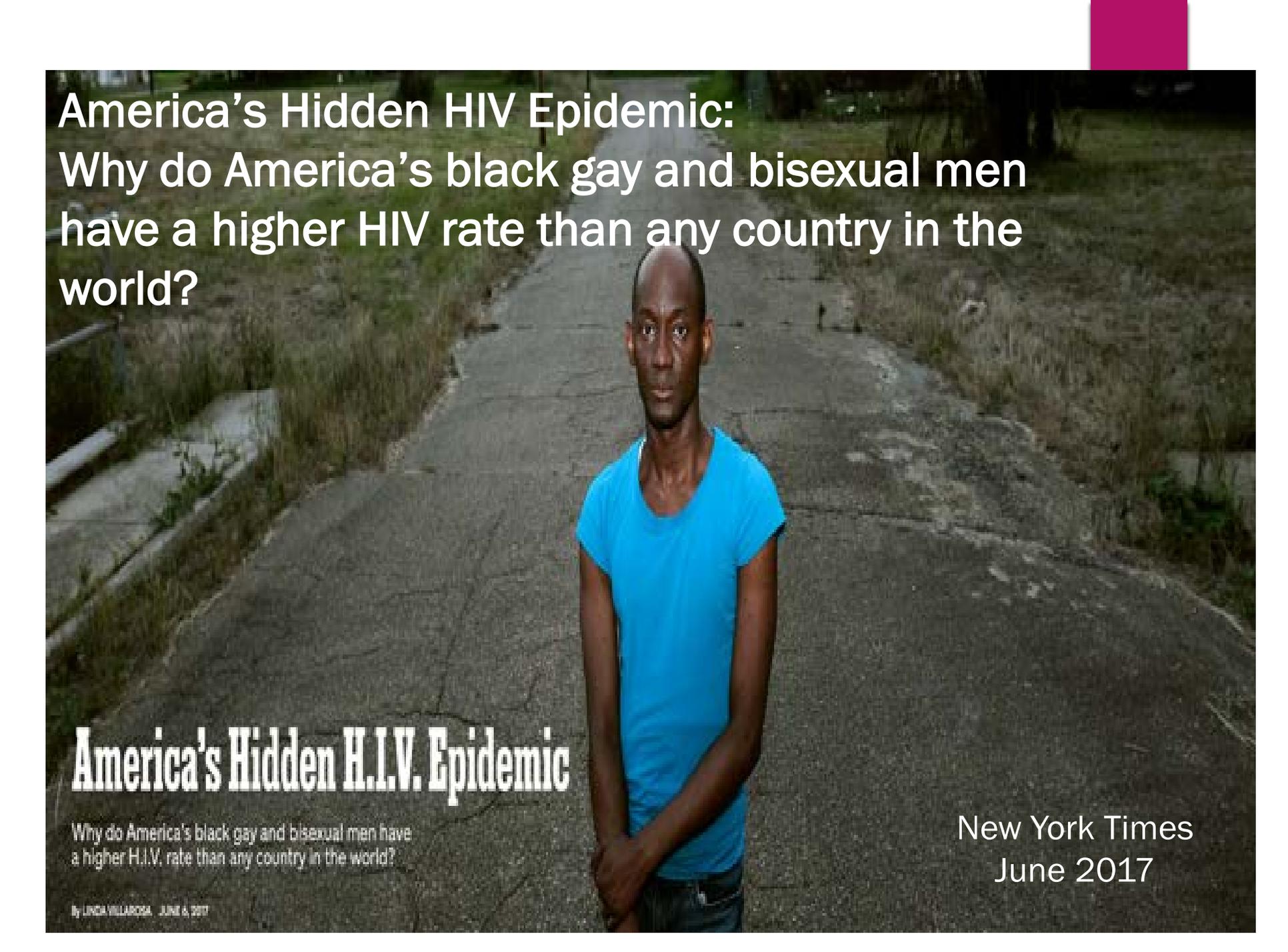
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Examine some recent environmental events  
and the impact of SDH

Katrina

Harvey





**America's Hidden HIV Epidemic:  
Why do America's black gay and bisexual men  
have a higher HIV rate than any country in the  
world?**

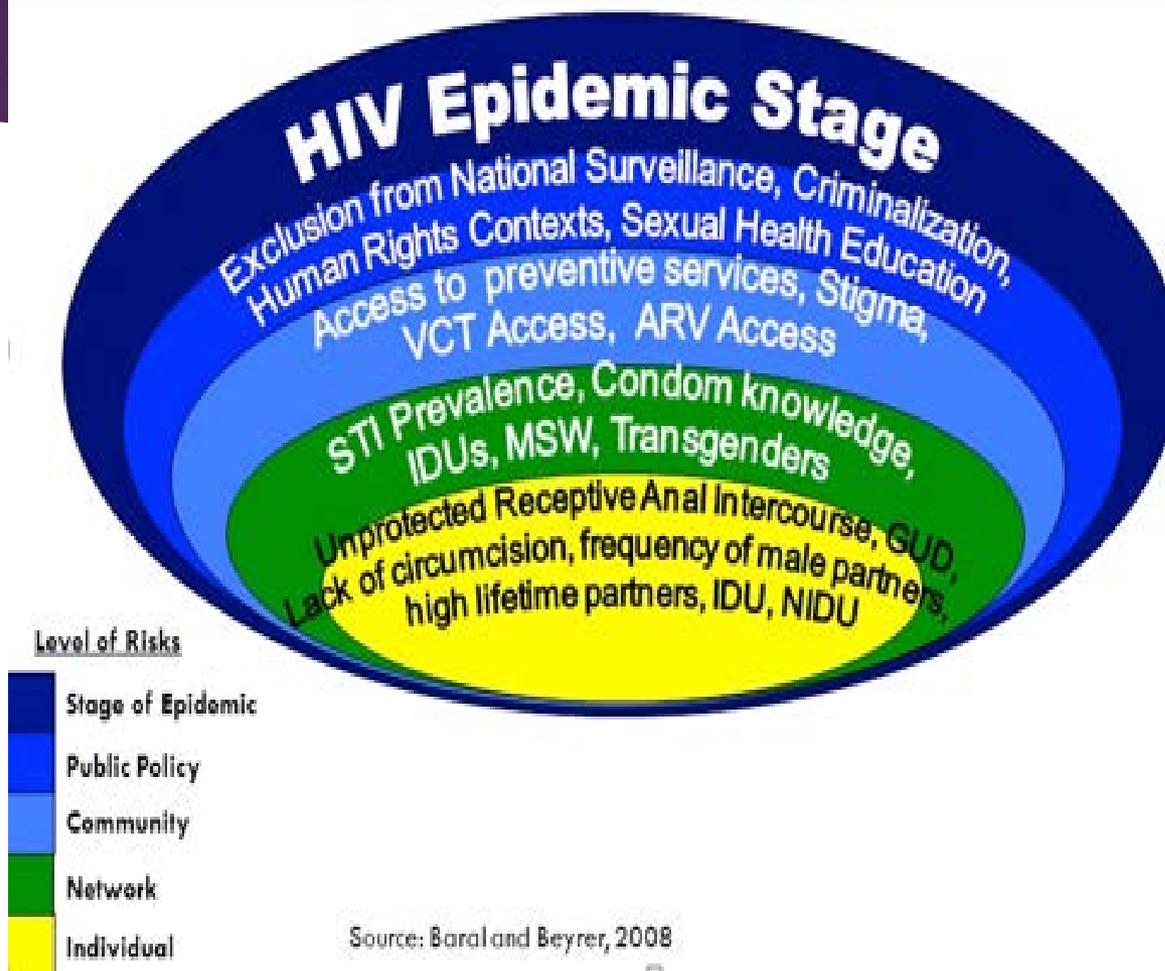
## **America's Hidden H.I.V. Epidemic**

Why do America's black gay and bisexual men have a higher H.I.V. rate than any country in the world?

By LINDA YILLAROSA JUNE 6, 2017

New York Times  
June 2017

# Ecological model for HIV Risk in MSM



Definitions

Statistics

Models

Examples

References

*A Critical Literature Review:*

# Greater Risk for HIV Infection of Black Men Who Have Sex With Men

Millett, et. Al, 2006

High rates of HIV infection for Black MSM were partly attributable to:

- *High prevalence of sexually transmitted diseases that facilitate HIV transmission*
- *Undetected or late diagnosis of HIV infection*

They **WERE NOT ATTRIBUTABLE** to:

- Higher frequency of risky sexual behavior *OR*
- Nongay identity *OR*
- Sexual nondisclosure *OR*
- Reported use of alcohol or illicit substances.

Definitions

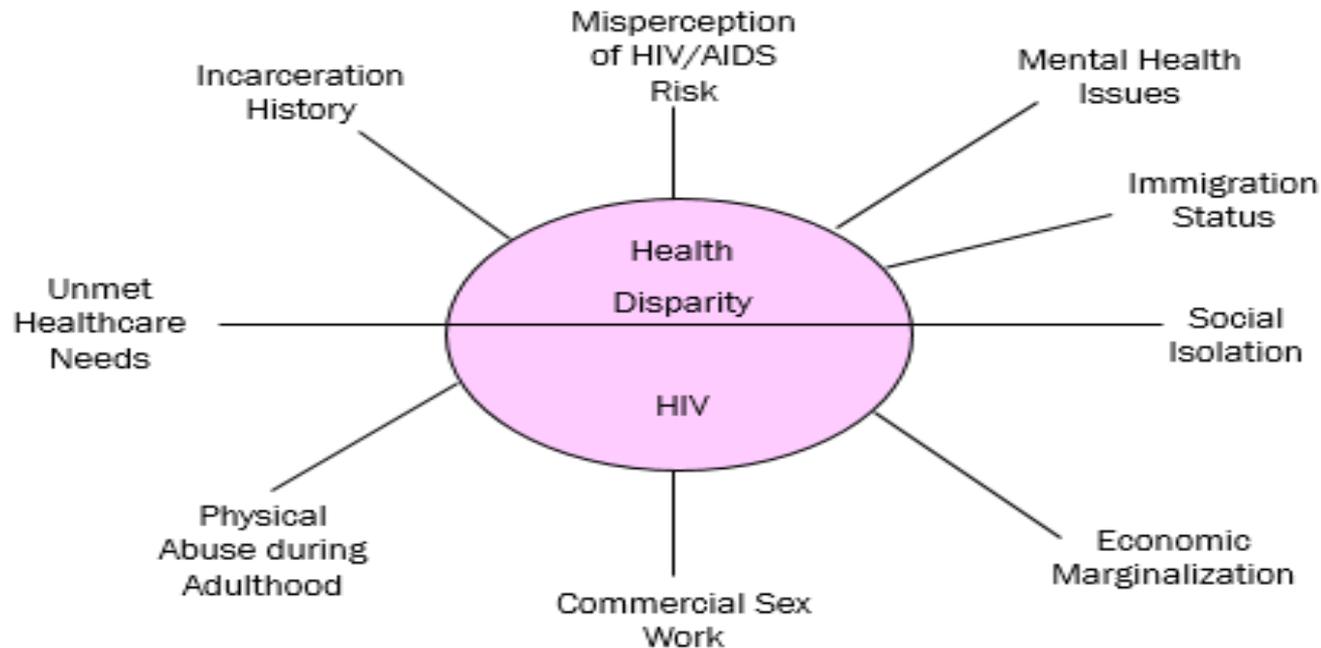
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# Contextual Factors Contributing to At-Risk Health Among Transgender Persons



Definitions

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References

# Barriers to Engagement and Retention in Care

- ▶ The majority of barriers to care are related to:
  - ▶ Stigma
  - ▶ Discrimination
  - ▶ Violence/ Victimization experienced

## Being refused healthcare

31% of transgender people report being refused medical care due to their transgender or gender-nonconforming status

## Harassment and violence in medical care settings

28% of transgender people report harassment and 2% report being victims of violence in medical settings

## Lack of healthcare provider knowledge of and sensitivity to transgender issues

50% of transgender people report having to teach their medical providers about transgender care

Definitions

Statistics

Models

Examples

References

# Barriers to Engagement and Retention in Care CONT'D...

- ▶ Unemployment, poverty, and homelessness
- ▶ Substance Abuse
- ▶ Trauma-induced mental health issues
- ▶ Incarceration History
- ▶ Lack of health insurance and coverage

Definitions

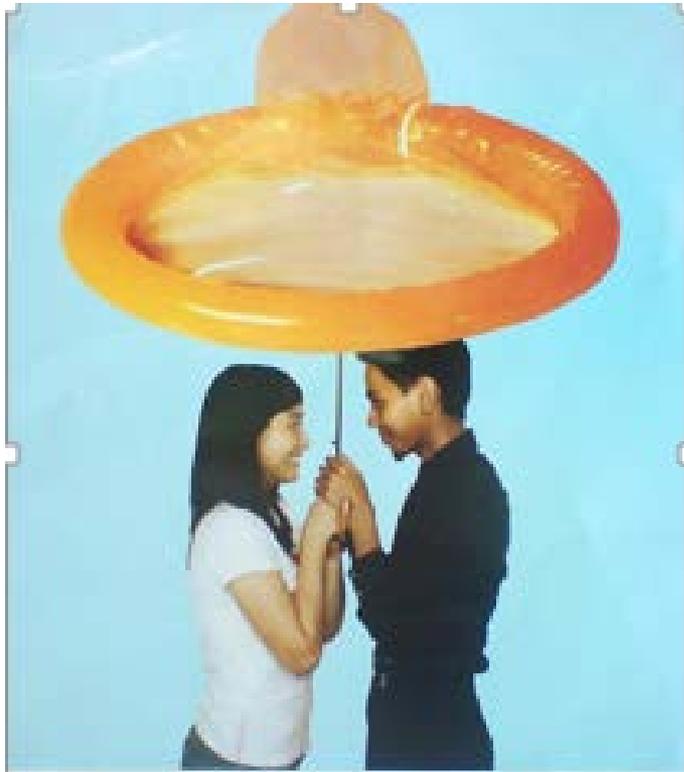
Statistics

Models

Examples

References

# WHAT ABOUT SOCIAL PROTECTION?



- ▶ Policies and programs designed to reduce poverty and vulnerability by promoting efficient labor markets, diminishing people's exposure to risks, and enhancing their capacity to manage economic and social risks – like unemployment, exclusion, sickness, disability, and old age.

Definitions

Statistics

Models

Examples

References

# Social protection floors

—refers to a minimum set of nationally defined and guaranteed basic goods and services aimed at preventing or alleviating poverty and social exclusion.

Definitions

Statistics

Models

Examples

References

Ultimately, it comes down to.....

- ECONOMIC INEQUALITY
- SOCIAL CONNECTEDNESS
- A SENSE OF EFFICACY

Definitions

Statistics

Models

Examples

References

# Social Determinants of Health- Discussion

2 / 6

How to foster and enhance

- ECONOMIC EQUALITY
- SOCIAL CONNECTEDNESS
- A SENSE OF EFFICACY



# REFERENCES

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Definitions

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