



The Relationship between Social Determinants of Health and Health Outcomes in Colorado: A Small Geography Investigation

Changing Hearts and Minds

Accommodating Small Geographies

Incorporating a Racial Equity Perspective

Health Outcomes

Life Expectancy

Source: USA LEEP

Self-Reported Health Status

Source: Behavioral Risk Factor Surveillance System

NEITHER HEALTH OUTCOME IS
AVAILABLE WITH DATA STRATIFIED
BY RACIAL/ETHNIC BREAKDOWNS

SDOH Variables in the Model

SOCIAL DETERMINANT VARIABLES

Facilities per capita (stratified urban/rural)

Share of insured population

Share of housing units affordable to med fam income

Share of households not housing cost-burdened

Walkability index (average of block groups, stratified urban/rural)

Share of population with access to a car

Air quality mean predicted concentration measure

Share of employed persons (of total 18-70)

Median family income 2017

Percent change in population 2x above FPL

Average 3rd grade reading proficiency

Share of population 25+ with Bachelor's or more

Gini index

Share of connected youth (16-19)

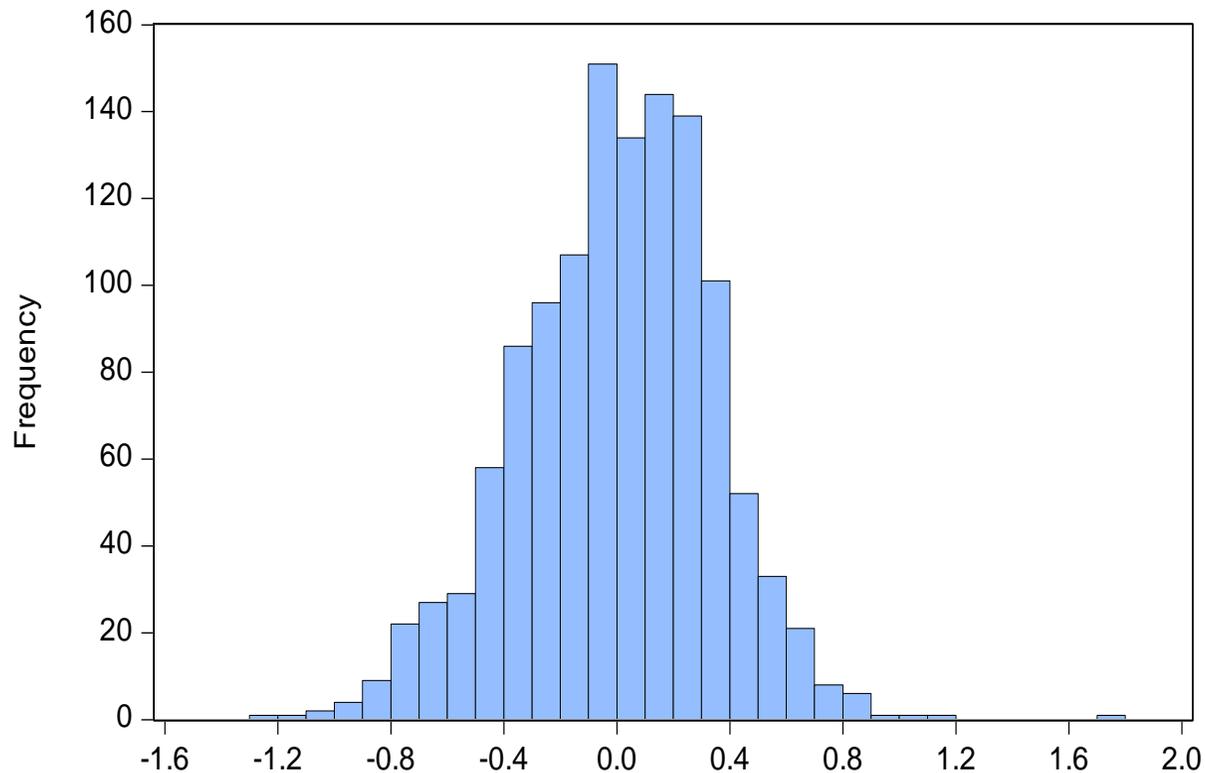
Share of registered voters (18+)

Price of bananas

Low Access to food (stratified urban/rural)

Individual Social Determinant Factors Combined into an Index

Statewide Index of Social Determinant of Health Factors



Interpreting the Histogram:

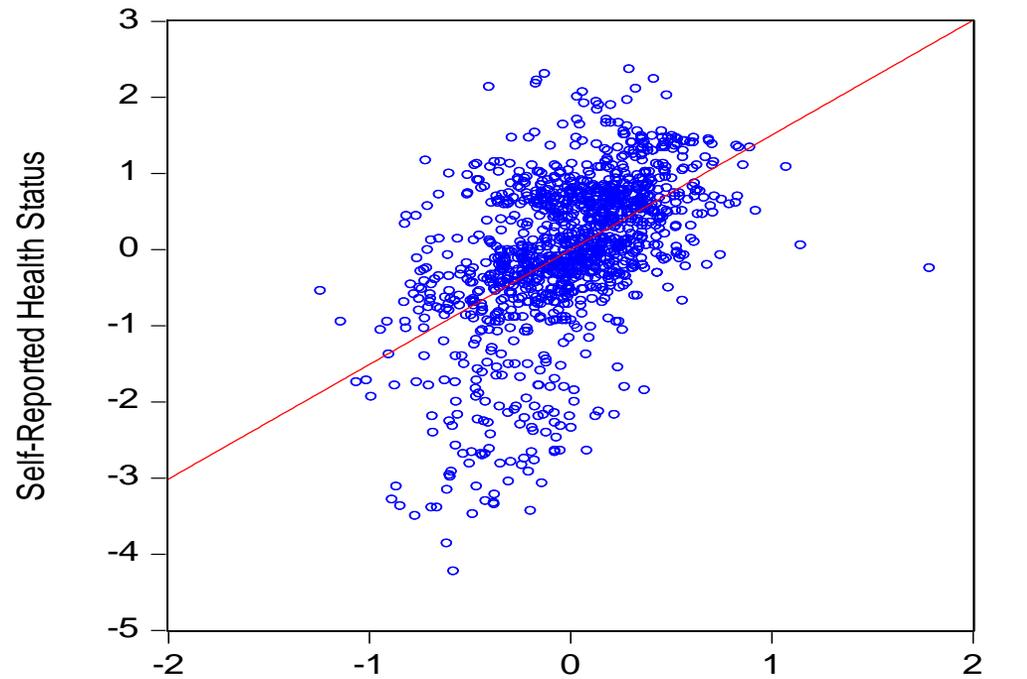
The index is a combination of z-scores.

On the graph, zero represents the state mean. The positive and negative values represent standard deviations above and below the state mean.

Alternatively, the graphic can be interpreted ordinally. Further away from zero in either direction represents incrementally better or worse than the state mean.

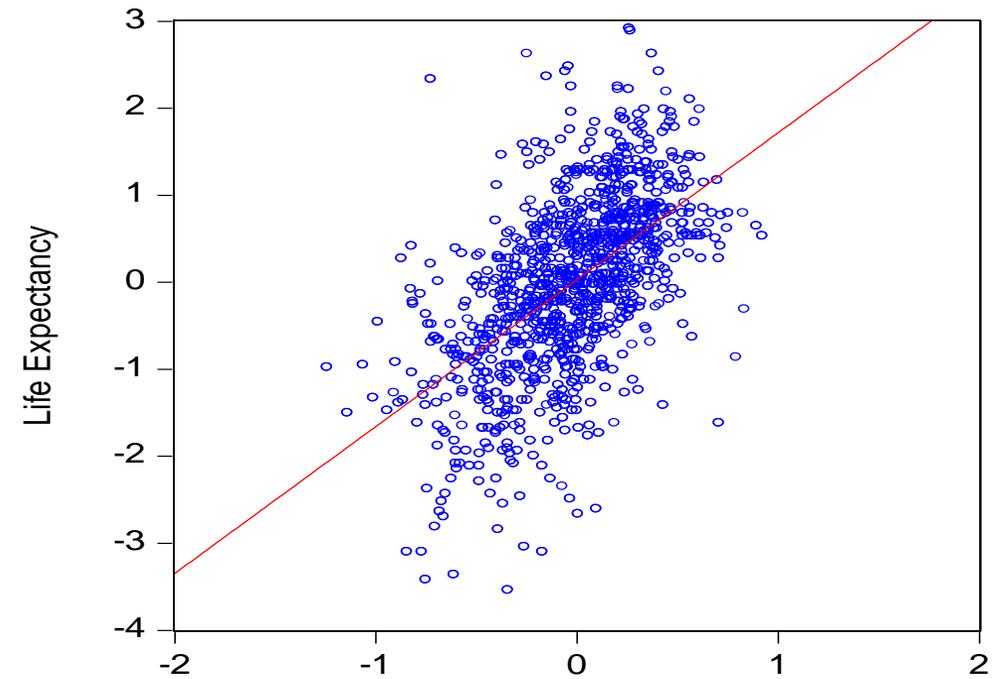
Social Determinants are Positively Related to Health Outcomes

RELATIONSHIP WITH SELF-REPORTED
HEALTH STATUS



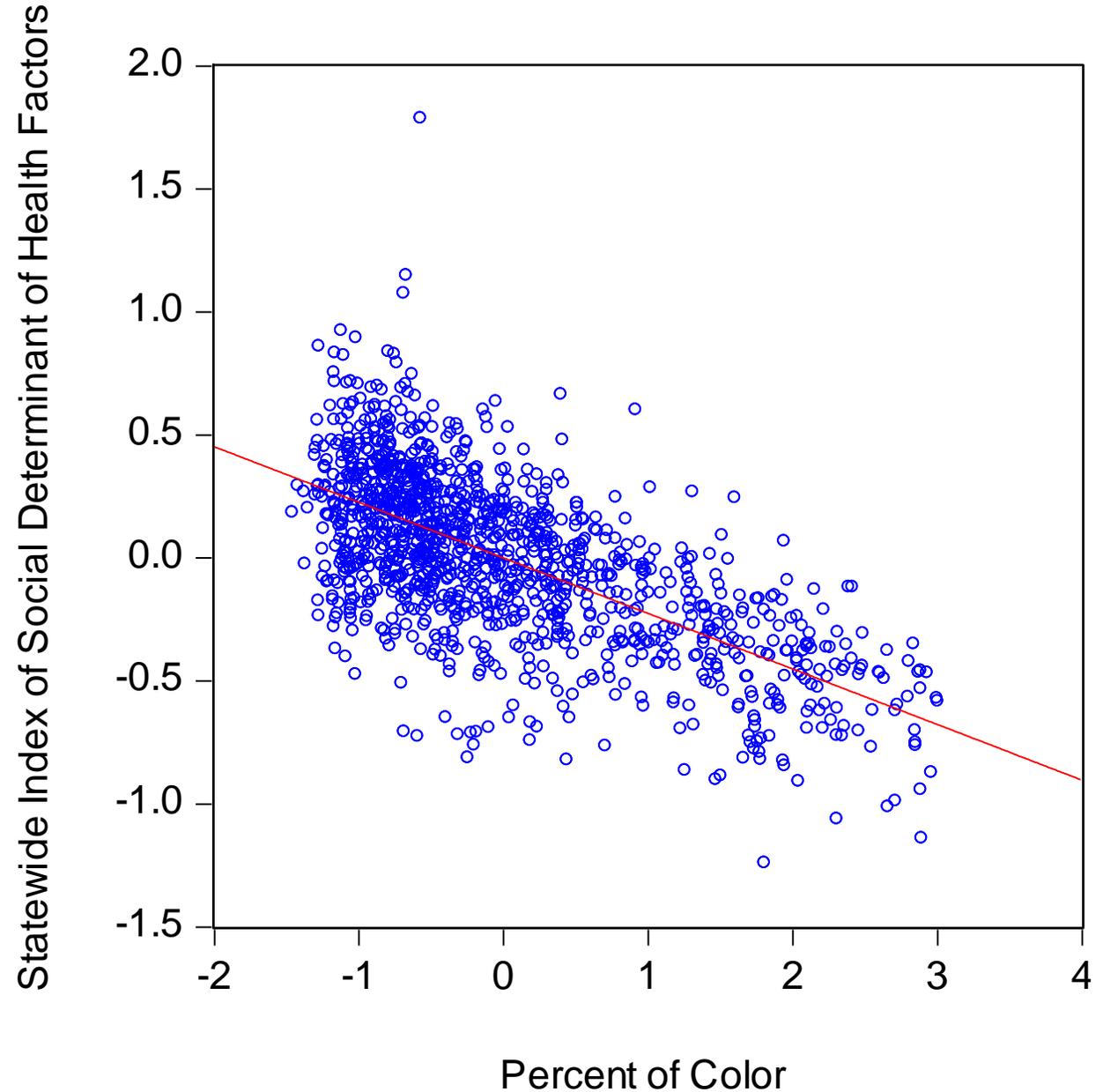
Statewide Index of Social Determinant of Health Factors

RELATIONSHIP WITH LIFE EXPECTANCY



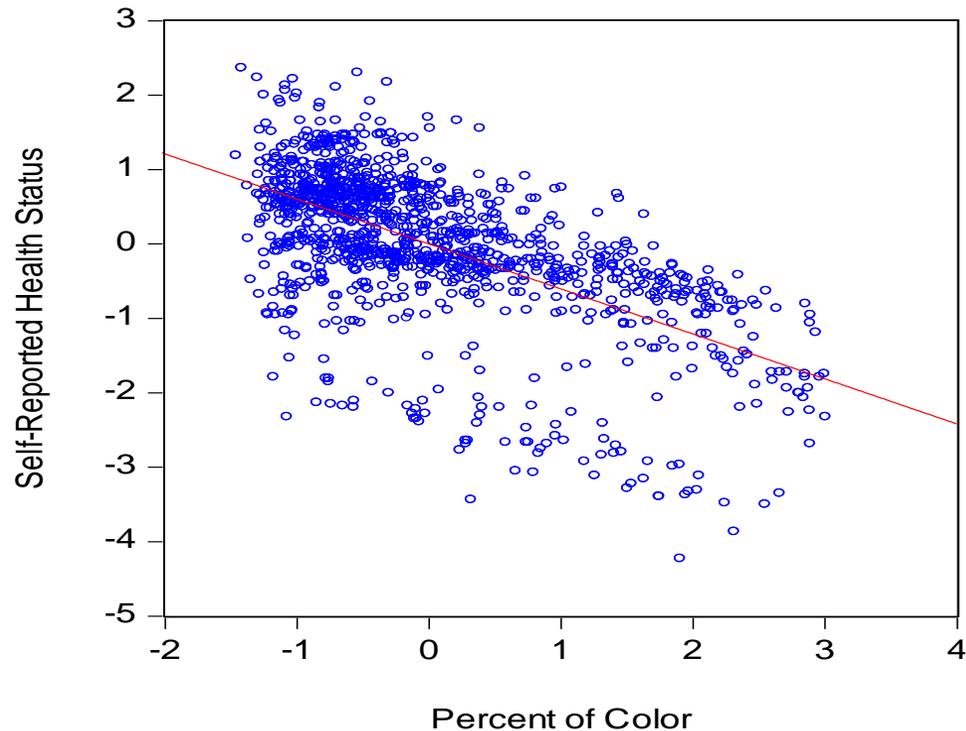
Statewide Index of Social Determinant of Health Factors

However, the
Larger the
Percent of
People of
Color the
Lower the
Score for the
Index of
SDOH Factors

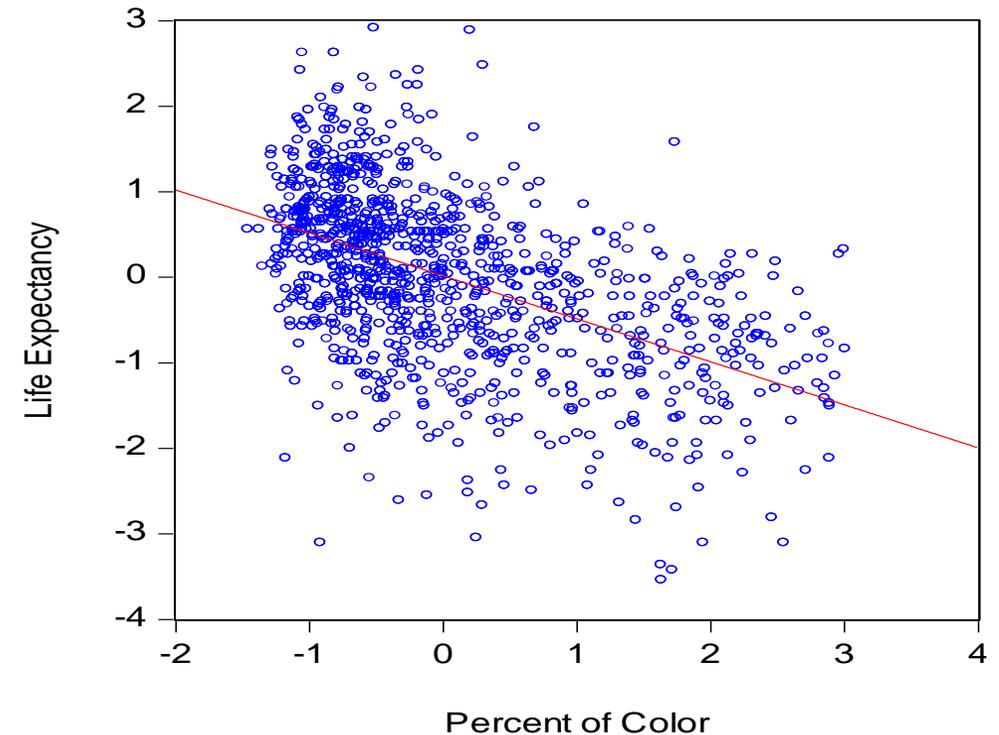


As a Result, the Larger the Percent People of Color, the Lower the Health Outcome

RELATIONSHIP WITH SELF-REPORTED
HEALTH STATUS



RELATIONSHIP WITH LIFE EXPECTANCY



Comments | Questions?

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Reference Links for this Presentation:

SDOH Model forthcoming (January, 2021) at <https://www.coloradotrust.org/strategy/colorado-equity-compass>