

Geographic Evaluation of Social Determinants of Health of Patients at a Student-Run Free Clinic

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BACKGROUND

- University of California, San Diego Student-Run Free Clinic Project (SRFCP) provides medical, mental health, pharmacy, dental, and social services to underserved patients throughout San Diego County
- Social determinants are strongly associated with worse health outcomes
- Several neighborhood-level metrics use publicly

Cross-sectional study of 366 patients with addresses seen at SRFCP in the past year

METHODS

Study Design

Geographic Indices of Community Health

Index

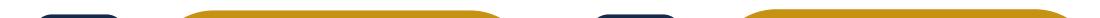
S

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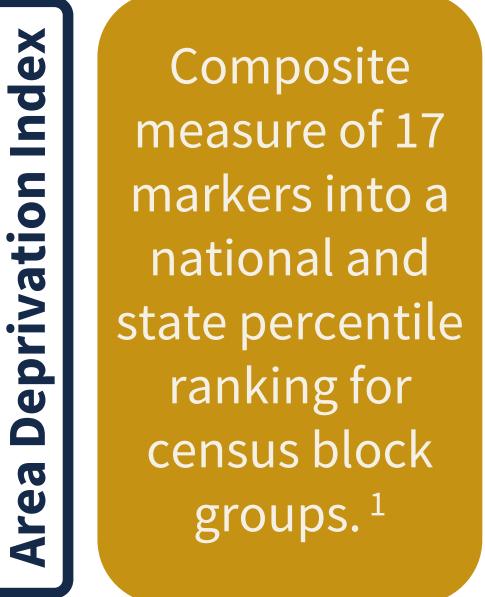
CA



available geographic data to quantify markers of community health

AIMS

- To measure the social determinants of health of SRFCP patients using geographic data
- 2. To better understand the social conditions that drive health of SRFCP patients to improve quality of care and health outcomes



Index of 25 indicators in 8 domains of community health at the census tract level throughout California.²

RESULTS

Table 1. Healthy Places Index Percentiles of SRFCP Patients Compared to CA Population	
Indicator	Percentile (SD)
Overall	25.8 (20.0)
Economic	25.8 (19.3)
Education	35.0 (22.9)

Table 2. Area Deprivation Index of SRFCP Patients Compared to US	
Population	Decile (SD)
CA Population	
State Decile	4.4 (2.3)

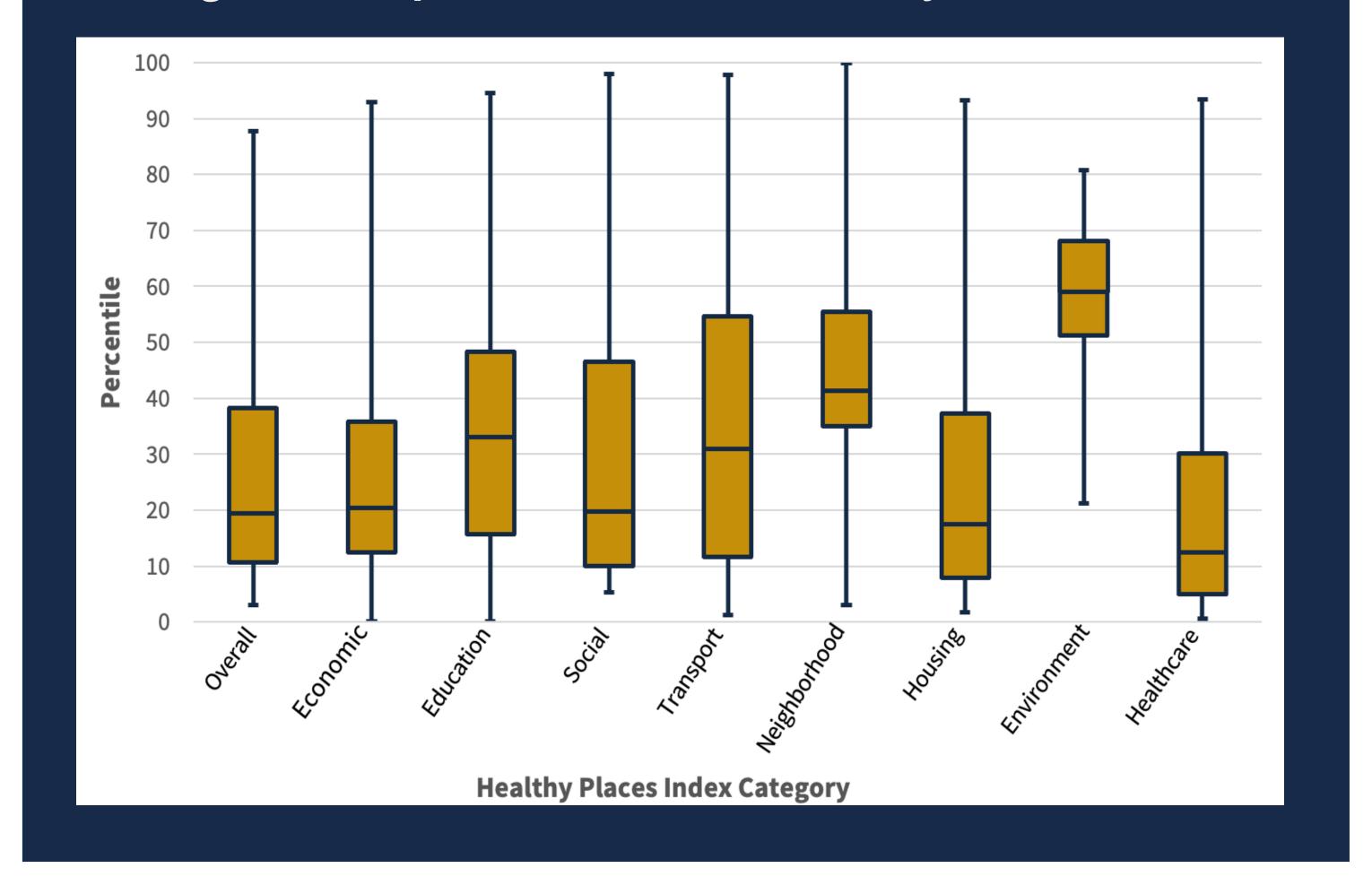
Healthcare access of SRFCP patients was lower than an

Social	29.6 (22.4)
Transportation	36.6 (26.2)
Neighborhood	44.1 (18.1)
Housing	24.9 (20.7)
Clean Environment	58.8 (10.4)
Healthcare Access	19.7 (19.3)

National Decile	12.3 (10.3)
SRFCP Patients	
State Decile	7.0 (1.7)
National Decile	23.5 (13.1)

average of 80% of CA census tracts.

Figure 1. Boxplot of Indicators of Healthy Places Index



CONCLUSIONS

Patients of SRFC face significant social determinants compared to the CA general population based on geographic data.

Significant areas of disadvantage include economic, education, social, transportation, housing, and healthcare access.

We hope this data will guide further strategies to reduce barriers, including collaboration with social workers and community partners.

 ¹ Kind AJH, Buckingham W. Making Neighborhood Disadvantage Metrics Accessible: The Neighborhood Atlas. *New England Journal of Medicine*, 2018. 378: 2456-2458.
² Public Health Alliance of Southern California. California Healthy Places Index.

http://healthyplacesindex.org. Published 2019.