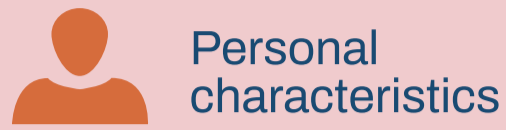


Identifying Clusters of PRAPARE Social Determinants of Health Risk Factors Using Factor Analysis

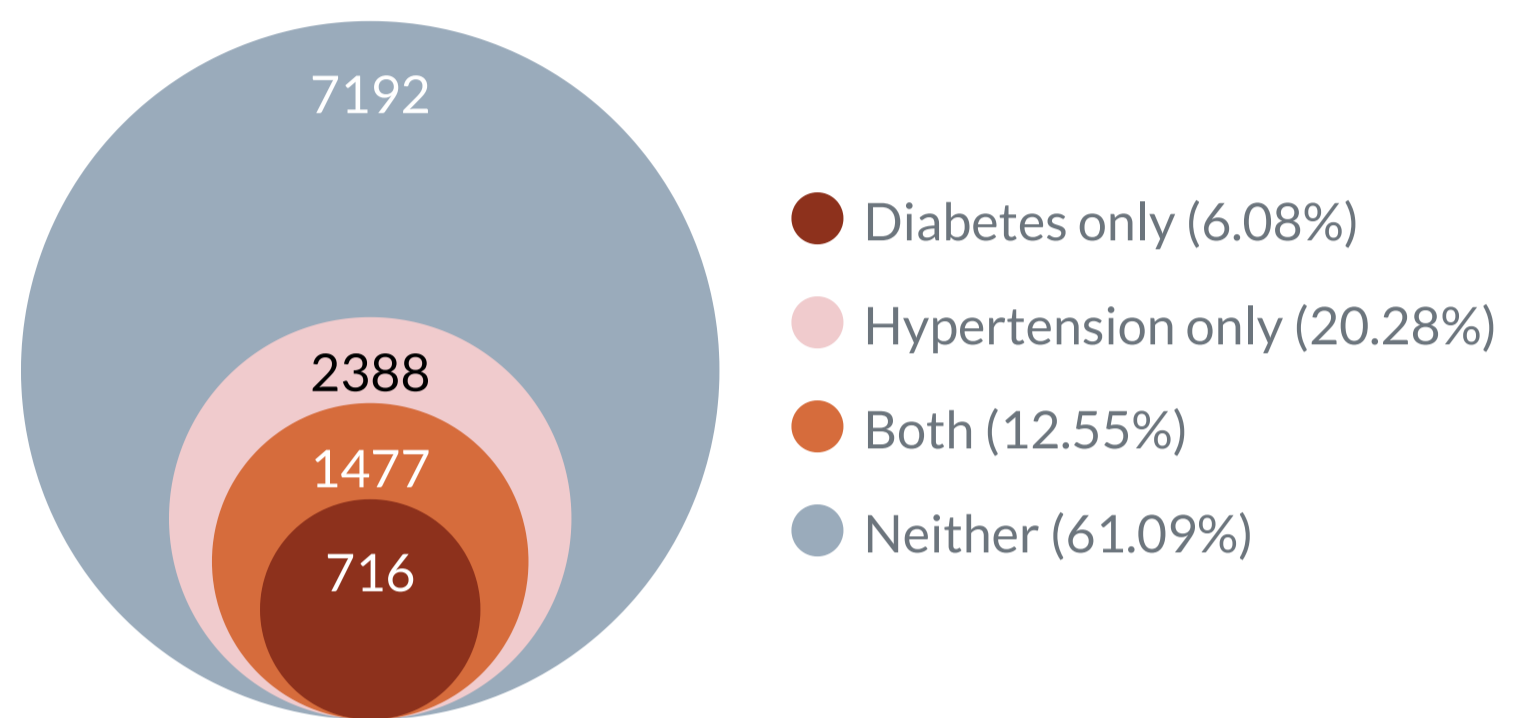
Protocol for Responding to & Assessing Patients' Assets, Risks & Experiences (PRAPARE) is a national standardized patient risk assessment protocol designed to engage patients in assessing & addressing social determinants of health (SDOH). PRAPARE is evidence-based, designed through stakeholder engagement, paired with an Implementation and Action Toolkit, and standardized across ICD-10, LOINC, and SNOWMED. The PRAPARE core questions includes domains of



For more information, please visit www.nachc.org/prapare. In this study, we collaborated with the Siouxland Community Health Center and the University of Chicago to identify clusters of risk factors in a population that included patients with diabetes and hypertension, two conditions highly impacted by social risk factors.

STUDY DESIGN AND POPULATION

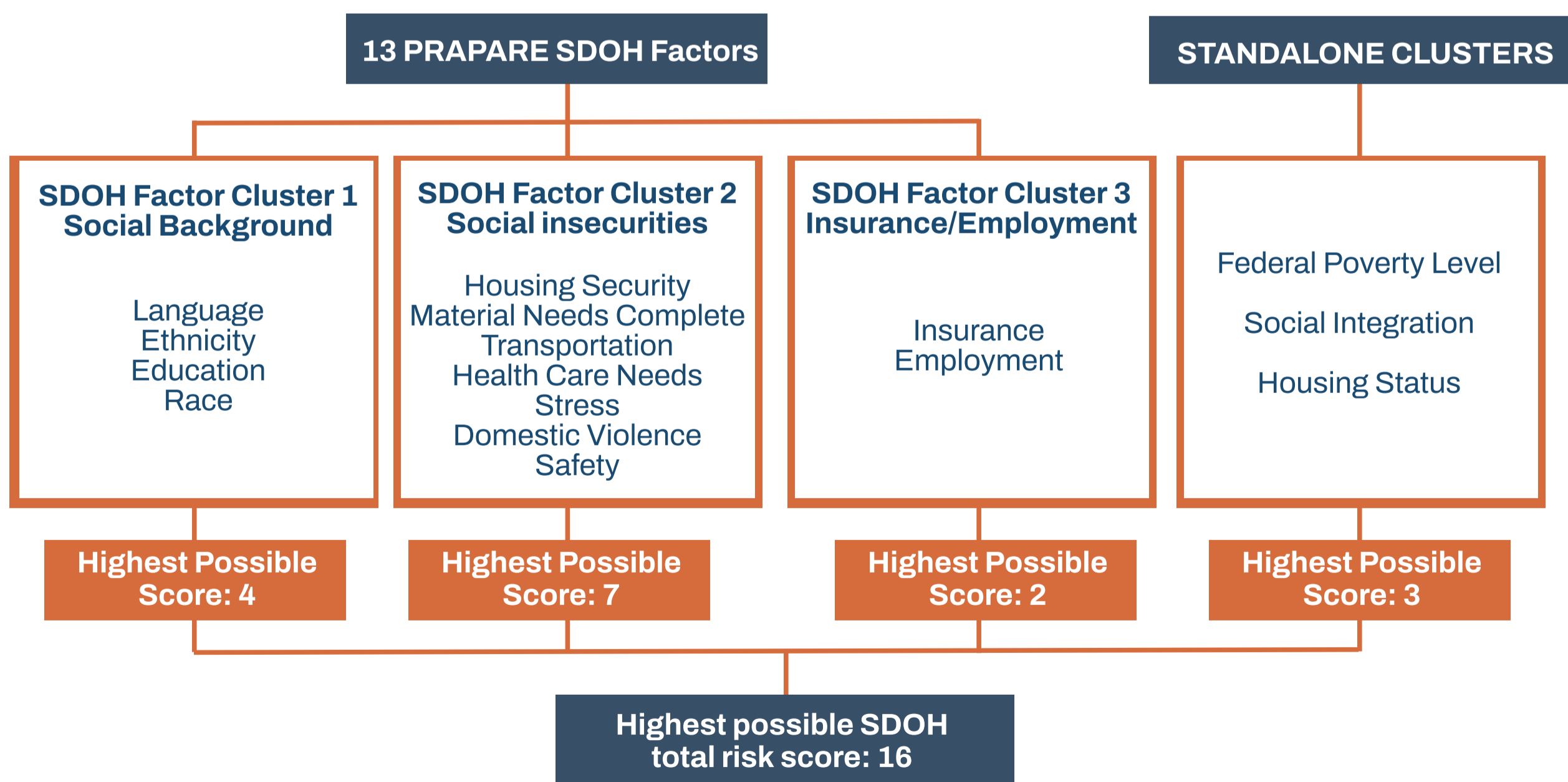
- As one of the first PRAPARE pilot sites, Siouxland Community Health Center, located in Sioux City, Iowa, began implementing PRAPARE in 2015.
- Cross-sectional observational study.
- 11,773 adults, aged 18-75, who visited Siouxland Community Health Center (Sioux City, Iowa) between 1/1/2016 to 6/30/2018 and completed the PRAPARE survey.
- 716 patients had diabetes only, 2,388 had hypertension only, 1,477 had both, and 7,192 had neither disease.



STUDY METHOD

- Exploratory Factor Analysis (EFA) to discover clusters.
- Confirmatory Factor Analysis to confirm the cluster constructs that were discovered from EFA.
- Thirteen variables were included for EFA: **Language, Ethnicity, Education, Race, Housing Security, Food Needs, Transportation Needs, Health Care Needs, Stress, Domestic Violence, Safety, Insurance Status, Employment.**
- Multiple linear and/or logistic regressions to assess the relationships between cluster scores and HbA1c and blood pressure (BP) values, HbA1c \geq 9%, and BP \geq 140/90 mm 140/90 Hg.

WHAT WE LEARNED: PRAPARE SDOH Factors Can Be Categorized Into 3 Clusters + 3 Standalone Factors



WHAT WE LEARNED: PRAPARE SDOH Clusters Are Associated with Diabetes and Hypertension Outcomes

