**PhenX Social Determinants of Health Measurement Protocols**

**Scope and Measurement Protocols Proposed by the Social Determinants of Health Working Group**

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| **Scope element** | **Community Measures** | **Protocol source** | **Scope** |
| Structural Racism/Hierarchy/Discrimination | 1. Environmental Justice
 | Environmental Protection Agency (EPA) Environmental Justice Screening and Mapping Tool (EJSCREEN) | Specialty Collection - Structural |
| 1. S Index, Unbiased (alternate protocol for Race/Ethnic Residential Segregation)
 | U.S. Census Bureau, American Community Survey (ACS), 5-year estimates | Specialty Collection - Structural |
| Economic Resources | 1. Concentrated Poverty
 | U.S. Census Bureau, American Community Survey (ACS), 5-year estimates | Specialty Collection - Structural |
| Occupational Health & Safety | 1. Percent Unionized for Non-Agricultural Labor Force
 | Current Population Survey, Labor Force Items | Specialty Collection - Structural |
| Education | 1. Educational Attainment – Community (alternate protocol for Current Educational Attainment)
 | U.S. Census Bureau, American Community Survey (ACS), 5-year estimates | Specialty Collection - Structural |
| Environmental Exposures | 1. Air Quality Index
 | Environmental Protection Agency (EPA) Air Quality Index | Specialty Collection - Structural |
| Sociocultural Community Context | 1. Social Vulnerability Index
 | CDC Social Vulnerability Index | Specialty Collection - Structural |
| Built and Natural Environments | 1. Social Vulnerability Index
 | CDC Social Vulnerability Index | Specialty Collection - Structural |
| Food Environment | 1. Food Swamp
 | Traditional Retail Food Environment Index | Specialty Collection - Structural |

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| **Scope element** | **Individual Measures** | **Protocol source** | **Scope** |
| Structural Racism/Hierarchy/Discrimination | 1. Disparate Health Care
 | California Health Interview Survey | Specialty Collection - Individual |
| Economic Resources | 1. Wealth
 | 2019 Panel Study of Income Dynamics, Wealth Supplement | Specialty Collection – Individual |
| Employment Status | 1. Job insecurity
 | General Social Survey (GSS), 2018 | Specialty Collection - Individual |
| 1. Occupational Prestige
 | U.S. Census Bureau, American Community Survey (ACS), 5-year estimates; General Social Survey, Occupational Classification Distributions | Core Tier 1, Specialty Collection - Individual |
| Education | 1. English Proficiency
 | U.S. Census Bureau, American Community Survey (ACS), 5-year estimates | Core Tier 1, Specialty Collection - Individual |
| Food Environment | 1. Food Insecurity
 | USDA Economic Research Service | Core Tier 1, Specialty Collection - Individual |
| Health & Health Care | 1. Health Literacy
 | Short Assessment of Health Literacy—English (SAHL-E) | Core Tier 1, Specialty Collection - Individual |
| 1. Health Numeracy
 | Numeracy Understanding in Medicine (NUMi) | Specialty Collection - Individual |
| 1. Access to Health Technology
 | NCI Health Information National Trends (HINTS) | Specialty Collection - Individual |
| 1. Access to Health Services
 | CDC NCHS National Health Interview Survey (NHIS) | Core Tier 1, Specialty Collection - Individual |
| 1. Disparate Health Care
 | California Health Interview Survey | Specialty Collection - Individual |