

Collecting and Analyzing Race and Ethnicity Data in Highly Diverse Communities: Challenges and Strategies for Healthcare Systems

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The Cambridge Health Alliance (CHA)

Background

- Academic community health care system comprising 3 hospitals, 12 primary care clinics, and several other clinics and programs targeted at specific populations
- Robust community health programming led by the **Department of Community Health Improvement**
- Primarily serves the cities of Cambridge, Somerville, Everett, Malden, and Revere
- Highly diverse patient population
 - Many immigrant populations, particularly from Brazil, Haiti, Central America, and South Asia
 - Emerging populations from Nepal and Middle Eastern countries
 - 42% of primary care patients are Limited English Proficient • Over 65 languages and over 125 ethnicities represented in
 - the primary care patient population





Zero Disparities Committee

- Working group comprised primarily of members from the CHA Department of Community Health Improvement and the Institute for Community Health
- Works to ensure accurate and comprehensive race , ethnicity , and language (REL) data collection for CHA patients so that CHA can:
 - Understand the populations served and ensure that services are culturally and linguistically appropriate
 - Meet state and federal mandates
- Dedicated to using REL data to identify and promote awareness of health disparities at CHA

Standards for race/ethnicity data collection

National Standards

- The Office of Management and Budget (OMB) sets the **minimum** standards for race/ethnicity data collection and federal reporting
- Preferred format is to ask race and ethnicity questions **separately** with ethnicity asked first
- Race and ethnicity should be **self-identified** whenever possible
- OMB standards have two categories for ethnicity and five for race
- A person may choose more than one race category

ETHNICITY

- Hispanic or Latino
- Not Hispanic or Latino

Definition: "A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race."



- White



- Broad categories don't capture **cultural diversity within groups**
 - Example: a black patient could be African American, Haitian, Ethiopian, Jamaican \rightarrow these are very different cultures with different factors that may affect health
- Looking at broad categories alone can mask disparities
 - Example: Overweight/obesity rate for CHA adult primary care patients is 65%
 - Rate for Asian patients: 50%
 - Rate for Pakistani patients: 73%
- Some populations do not identify with any of the standard race categories, leading to a high percentage choosing "Other" race. The resulting data is not useful for identifying disparities or improving services to better meet patients' needs.

Percentage who chose "Other" race



Data for FY14 CHA primary care patients

RACE

• American Indian or Alaska Native

• Black or African

American

• Native Hawaiian or

Other Pacific Islander

CHA's approach to data collection and analysis

Data collection

- CHA collects race and Hispanic/Latino ethnicity according to OMB standards
- CHA also collects **detailed ethnicity** from all patients • The electronic medical record (EMR) has more than 130 options for detailed ethnicity, and this list is
 - periodically updated
 - Detailed ethnicity is a required field in the CHA's EMR (must be populated)
 - Patients can choose more than one ethnicity
- All registration staff are trained on how to collect REL data Cameroon Canadian and how to respond to common questions/concerns

Benefits to this approach

- More inclusive
- More nuanced information about populations served
- Deeper understanding of health disparities

Data analysis



African American (2448 Black Caribbean (373 Latino - Caribbean (2045) Latino - Central American/Mexican (5199) Other Latino (2114) Portuguese/Azorean (2739) North American/European (27595 East Asian (1247 South Asian (327) Southeast Asian (906



- African America
- Detailed data collection requires resources and extensive staff training Sample sizes for some ethnicities are very small; some level of rolling up is necessary

Challenges to this approach

- Categorizing patients wit h multiple ethnicities
- The Zero Disparities Committee developed a tiered categorization system that enables drilling down and rolling up of ethnicities.