



2014 National Healthcare Quality and Disparities Report

CHARTBOOK ON HEALTH CARE FOR HISPANICS



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2014 NATIONAL HEALTHCARE QUALITY AND DISPARITIES REPORT CHARTBOOK ON HEALTH CARE FOR HISPANICS

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HEALTH CARE FOR HISPANICS

Goals of the Chartbook on Health Care for Hispanics

- Commemorates the 30th Anniversary of the Report of the Secretary’s Task Force on Black and Minority Health (Heckler Report)
- Highlights progress for Hispanics on priorities of the Heckler Report
- Summarizes trends in health care disparities by Hispanic ethnicity related to:
 - Access to health care.
 - Priorities of the National Quality Strategy (NQS).
- Presents information on a unique, largely Hispanic population: residents of the U.S.-Mexico border

Organization of the Chartbook on Health Care for Hispanics

- Part of a series related to the National Healthcare Quality and Disparities Report (QDR).
- Organized into four parts:
 - Overviews of the QDR and the Hispanic population, one of AHRQ’s priority populations
 - Summary of trends in health care for Hispanic populations related to priorities of the Heckler Report
 - Summary of trends in health care for Hispanic populations related to access to health care and NQS priorities
 - Information on health care received by residents of the U.S.-Mexico border, a unique and largely Hispanic population

Key Findings of the Chartbook on Health Care for Hispanics

- Data on access to and quality of health care received by Hispanics were available for almost all measures tracked in the QDR.
- Among Heckler Report priorities, disparities in mental health care and diabetes care were big problems for Hispanics.
- Hispanics have worse access to care although this is improving since the Affordable Care Act.
- Hispanics receive poorer quality of care, especially as related to person centeredness.
- Residents of the U.S.-Mexico border face unique health care challenges.

PART 1: OVERVIEWS OF THE REPORT AND THE HISPANIC POPULATION

National Healthcare Quality and Disparities Report

This chartbook is part of a family of documents and tools that support the National Healthcare Quality and Disparities Reports (QDR). The QDR includes annual reports to Congress mandated in the Healthcare Research and Quality Act of 1999 (P.L. 106-129). These reports provide a comprehensive overview of the quality of health care received by the general U.S. population and disparities in care experienced by different racial, ethnic, and socioeconomic groups. The purpose of the reports is to assess the performance of our health system and to identify areas of strengths and weaknesses in the health care system along three main axes: access to health care, quality of health care, and priorities of the National Quality Strategy.

The reports are based on more than 250 measures of quality and disparities covering a broad array of health care services and settings. Data are generally available through 2012, although rates of uninsurance have been tracked through the first half of 2014. The reports are produced with the help of an Interagency Work Group led by the Agency for Healthcare Research and Quality (AHRQ) and submitted on behalf of the Secretary of Health and Human Services (HHS).

Key Findings of the 2014 QDR

The report demonstrates that the Nation has made clear progress in improving the health care delivery system to achieve the three aims of better care, smarter spending, and healthier people, but there is still more work to do, specifically to address disparities in care.

- Access improved.
 - After years without improvement, the rate of uninsurance among adults ages 18-64 decreased substantially during the first half of 2014.
 - Through 2012, improvement was observed across a broad spectrum of access measures among children.
- Quality improved for most NQS priorities.
 - *Patient Safety* improved, led by a 17% reduction in rates of hospital-acquired conditions between 2010 and 2013, with 1.3 million fewer harms to patients, an estimated 50,000 lives saved, and \$12 billion in cost savings.
 - *Person-Centered Care* improved, with large gains in provider-patient communication.
 - Many *Effective Treatment* measures, including several measures of pneumonia care in hospitals publicly reported by the Centers for Medicare & Medicaid Services (CMS), achieved such high levels of performance that continued reporting is unnecessary.
 - *Healthy Living* improved, led by doubling of selected adolescent immunization rates from 2008 to 2012.

- Few disparities were eliminated.
 - People in poor households generally experienced less access and poorer quality.
 - Parallel gains in access and quality across groups led to persistence of most disparities.
 - At the same time, several racial and ethnic disparities in rates of childhood immunization and rates of adverse events associated with procedures were eliminated, showing that elimination is possible.
- Many challenges in improving quality and reducing disparities remain.
 - Performance on many measures of quality remains far from optimal. For example, only half of people with high blood pressure have it controlled. On average, across a broad range of measures, recommended care is delivered only 70% of the time.
 - As noted above, disparities in quality and outcomes by income and race and ethnicity are large and persistent, and were not, through 2012, improving substantially.
 - Some disparities related to hospice care and chronic disease management grew larger.
 - Data and measures need to be improved to provide more complete assessments of two NQS priorities, *Care Coordination* and *Care Affordability*, and of disparities among smaller groups, such as Native Hawaiians, people of multiple races, and people who are lesbian, gay, bisexual, or transgender.

Chartbook on Health Care for Hispanics

- This chartbook includes summaries of trends in health care for Hispanic populations related to:
 - Priorities of the Heckler Report
 - Access to health care
 - Priorities of the National Quality Strategy
- [Introduction and Methods](#) contains information about methods used in the chartbook.
- Appendixes include information about measures and data.
- A Data Query tool (<http://nhqrnet.ahrq.gov/inhqrdr/data/query>) provides access to all data tables.

Key Metrics Used in Chartbooks

- Trends: Assesses the rate of change over time (typically 2002-2012) for a population using regression for measures with 4+ time points
- Disparities: Assesses whether measure estimates for two populations differ at the most recent time point
- Change in Disparities: Assesses whether the rates of change over time for two populations differ using regression
- Achievable Benchmarks: Defines a level of performance for a measure that has been attained by the best performing States

In this chartbook Hispanics are usually contrasted with non-Hispanic Whites and non-Hispanic Blacks. To make text more concise, the labels White and Black are used to refer to populations that are non-Hispanic White and non-Hispanic Black, respectively. In addition, unless otherwise specified, Hispanics include all races.

Examples of successful interventions come from the AHRQ Health Care Innovations Exchange: <https://innovations.ahrq.gov/>. See [Introduction and Methods](#) for more information about methods used in the chartbook.

HHS Data Collection Standards for Race and Ethnicity, 2011

Are you of Hispanic, Latino/a, or Spanish origin? (One or more categories may be marked)

- a. No, not of Hispanic, Latino/a, or Spanish origin;
- b. Yes, Mexican, Mexican-American, Chicano/a;
- c. Yes, Puerto Rican;
- d. Yes, Cuban;
- e. Yes, another Hispanic, Latino/a, or Spanish origin

These categories roll up to the Hispanic or Latino category of the Office of Management and Budget (OMB) standard.

What is your race? (One or more categories* may be selected)

- a. White
- b. Black or African American
- c. American Indian or Alaska Native

These categories are part of the current OMB standard.

- a. Asian Indian
- b. Chinese
- c. Filipino
- d. Japanese
- e. Korean
- f. Vietnamese
- g. Other Asian

These categories roll up to the Asian category of the OMB standard.

- h. Native Hawaiian
- i. Guamanian or Chamorro
- j. Samoan
- k. Other Pacific Islander

These categories roll up to the Native Hawaiian or Other Pacific Islander category of the OMB standard.

- The Affordable Care Act includes several provisions aimed at eliminating health disparities in America. [Section 4302](#) (Understanding health disparities: data collection and analysis) focuses on the standardization, collection, analysis, and reporting of health disparities data. Section 4302 requires the Secretary of Health and Human Services (HHS) to establish data collection standards for race, ethnicity, sex, primary language, and disability status. Adopted October 31, 2011, these data collection standards are to be used, to the extent practicable, in HHS-sponsored population health surveys.
- The new data standards improve the quality of HHS data collection by establishing a consistent, uniform way to capture, record, and report data on race and ethnicity with additional granularity (beyond the OMB minimum) for the Asian race category and Hispanic ethnicity, and for the first time, standardized collection of language and disability status data.
- Because many of the data available to produce this chartbook were collected in 2012 and earlier, there was insufficient time to incorporate the new 2011 standards. Thus, much of the information presented here will show estimates for Hispanics in aggregate. For several data sources, information was collected for more granular Hispanic groups, and this is presented to illustrate the importance of collecting this more granular information.

Diversity of the Hispanic Population in the United States

- Hispanics in the United States are a diverse population, including:
 - Mexicans (64%),
 - Puerto Ricans (9.4%),
 - Cubans (3.7%),
 - South Americans (5.9%),
 - Central Americans (9%), or
 - Other Spanish origin groups.
- Although socioeconomically disadvantaged (except Cubans), Hispanics, particularly Mexican women, have better mortality rates than Whites.
- Source: <http://minorityhealth.hhs.gov/omh/browse.aspx?lvl=3&lvlid=64>; http://www.cdc.gov/nchs/data/nvsr/nvsr63/nvsr63_09.pdf.

Health of the Hispanic Population in the United States

- Health of Hispanics is influenced by many factors, including language, lack of access to preventive care, lack of health insurance, and other cultural barriers.
- Leading causes of morbidity and mortality include heart disease, cancer, unintentional injuries, stroke, and diabetes.
- Compared with non-Hispanic Whites, Hispanics have a:
 - Higher prevalence of asthma, chronic obstructive pulmonary disease, HIV/AIDS, suicide, and liver disease.
 - Higher rate of obesity.
 - Source: <http://minorityhealth.hhs.gov/omh/browse.aspx?lvl=3&lvlid=64>; <http://www.nih.gov/news/health/feb2014/nhlbi-24.htm>.

Projected Growth of the Hispanic Population Between 2014 and 2060

Distribution of Population by Race and Hispanic Origin



Key: AI/AN = American Indian or Alaska Native; NHPI = Native Hawaiian or Other Pacific Islander.

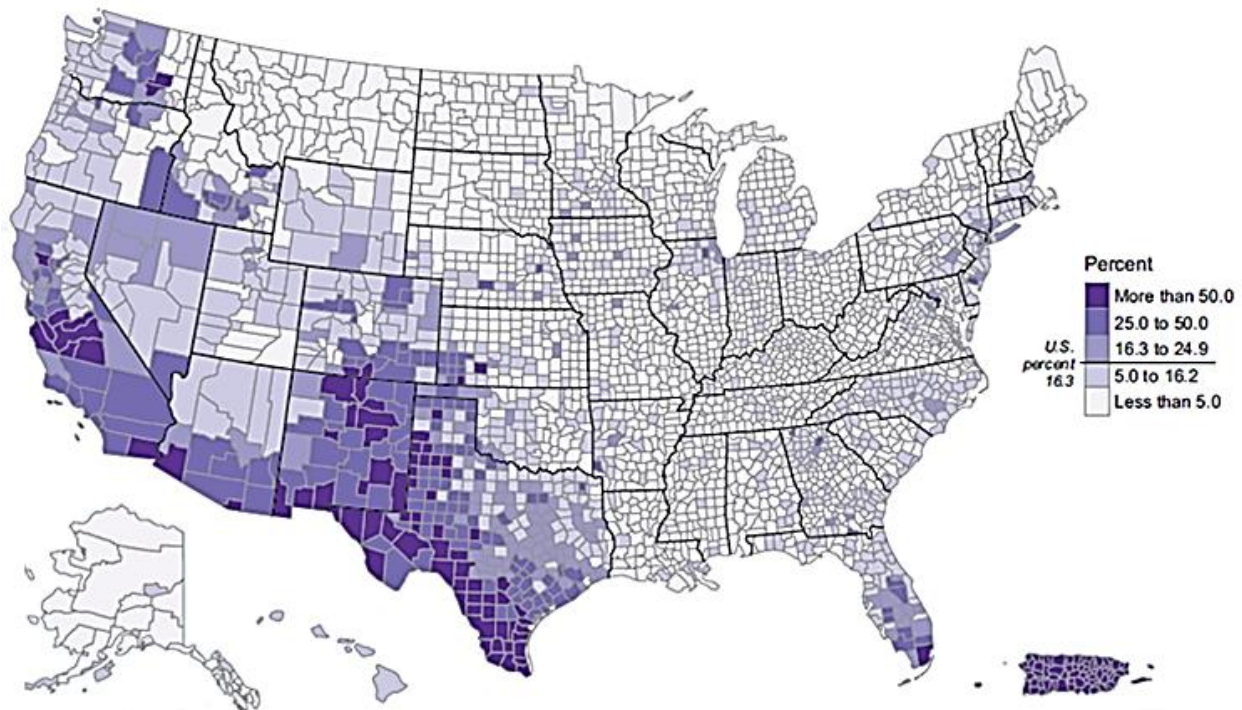
Source: U.S. Census Bureau, 2014 national projections.

Note: Unless noted, race categories represent race alone. Percentages of the population under 18 may not add to 100 due to rounding.

- In 2060, it is projected that 28.6% of the total U.S. population and 33.5% of U.S. children will be Hispanic.

Distribution of the U.S. Hispanic Population, 2010

Hispanic or Latino Population as a Percentage of Total Population, by County, 2010



Source: U.S. Census Bureau. 2010 Census Summary File 1.

Note: For information on confidentiality protection, nonsampling error, and definitions, see www.census.gov/prod/cen2010/doc/sf1.pdf.

- Hispanics are concentrated in specific geographic locations. Three quarters of the U.S. Hispanic population live in eight States:
 - California (28% of Hispanics in the United States)
 - Texas (19%)
 - Florida (8%)
 - New York (7%)
 - Illinois (4%)
 - Arizona (4%)
 - New Jersey (3%)
 - Colorado (2%)
- One-quarter of the U.S. Hispanic population live in eight counties:
 - 4.7 million Hispanics in Los Angeles County, California
 - 1.7 million in Harris County, Texas
 - 1.6 million in Miami-Dade County, Florida
 - 1.2 million in Cook County, Illinois
 - 1.1 million in Maricopa County, Arizona
 - 1.0 million in each of the following counties: Orange, California; Bexar, Texas; and San Bernardino, California

Hispanic Mothers and Children

- About 84% of Hispanic mothers receive early prenatal care compared with 87% of White mothers.
- Most Hispanic populations have lower infant mortality rates than Whites.
 - Infant mortality rates range from 3.0 for Cuban Americans to 5.9 for Puerto Ricans compared with 5.1 for non-Hispanic Whites.
 - Congenital malformation, low birthweight, and maternal complications are the leading causes of infant mortality among Hispanics.
- Source: <https://www.acog.org/-/media/Departments/Public-Health-and-Social-Issues/Racial-And-Ethnic-Disparities-In-Maternal-Mortality-InThe-US.pdf?la=en>; Markides & Coreil, 1986; <http://minorityhealth.hhs.gov/omh/browse.aspx?lvl=4&lvlid=68> .

Older Hispanics in the United States

- In 2012, there were:
 - 3.1 million Hispanics age 65 and over (7% of older adults); by 2060, this is projected to increase to more than 19 million, accounting for 21% of older adults.
 - 4,129 Hispanics age 100 and over (1,105 men, 3,024 women), or 7% of all centenarians.
- Most (70%) older Hispanics lived in four States: California, Texas, Florida, and New York.
- Source: <https://www.nlm.nih.gov/medlineplus/hispanicamericanhealth.html>

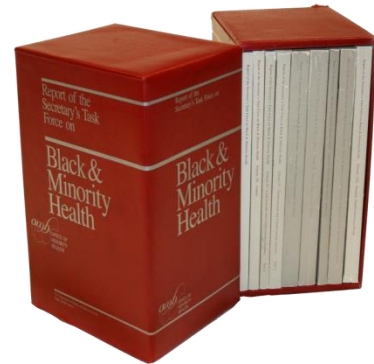
Health of Older Hispanics in the United States

- In 2012, the top five chronic conditions among older Hispanics were hypertension, arthritis, heart disease, diabetes, and cancer.
- Nearly one-quarter (24%) of older Hispanics had Medicare and supplementary private health insurance compared with 50% of all older adults.
- Nearly one-quarter (23%) of older Hispanics were covered by Medicare and Medicaid compared with 8% of all older adults.
- Source: <https://www.nlm.nih.gov/medlineplus/hispanicamericanhealth.html>

PART 2: TRENDS IN PRIORITIES OF THE HECKLER REPORT

Report of the Secretary's Task Force on Black and Minority Health (Heckler Report)

This year marks the 30th anniversary of the Report of the Secretary's Task Force on Black and Minority Health (also known as the Heckler Report), released in 1985 under the leadership of then U.S. Department of Health and Human Services (HHS) Secretary Margaret M. Heckler. The landmark report marked the first convening of a group of health experts by the U.S. government to conduct a comprehensive study of racial and ethnic minority health and elevated minority health onto a national stage.



The Heckler Report documented persistent health disparities that accounted for 60,000 excess deaths each year and synthesized ways to advance health equity. This marked the beginning of a new era in addressing minority health issues, beginning with the creation of the HHS Office of Minority Health in 1986 and leading up to the Affordable Care Act in 2010.

Priorities of the Heckler Report

- Focused on six causes of death with large Black-White disparities:
 - Cancer
 - Cardiovascular disease and stroke
 - Chemical dependency
 - Diabetes
 - Homicide and accidents
 - Infant mortality
- Data on “other minorities,” including Hispanics:
 - Very limited in the 1980s
 - Much more available today
- The Heckler Report found that 6 causes of death accounted for more than 80% of mortality among Blacks and other minority groups compared with Whites. These include cancer; cardiovascular disease and stroke; chemical dependency (measured by deaths due to cirrhosis); diabetes; homicide and accidents (unintentional injuries); and infant mortality. Based on the findings, the report outlined recommendations in areas of urgent need, including health information and education; health services delivery and financing; health professions development; data development; and research agenda.
- With the rapidly increasing diversity of the Nation and persistence of health disparities, the Heckler Report 30th anniversary serves as a call for all Americans to take action and accelerate efforts toward ending health disparities and achieving health equity in their community.

Progress on Priorities of the Heckler Report for Hispanics

Priority	Trends	Most Recent Disparity	Disparity Change
Care for Cancer	71% improving	29% worse	50% narrowing
Care for Cardiovascular Diseases	75% improving	33% worse	0% narrowing
Care for Substance Use Disorders	No improvement	No disparity	No change
Care for Diabetes	50% improving	56% worse	50% narrowing
Suicide Prevention and Mental Health Care	25% worsening	75% worse	0% narrowing
Infant Mortality and Maternity Care	43% improving	43% better	No change

- **Trends:**

- Most measures of care for cancer and care for cardiovascular diseases were improving for Hispanics.
- About half of measures for diabetes care and maternity care were improving.
- No measures of care for substance use disorders were improving and mental health care seemed to be getting worse for Hispanics.

- **Groups With Disparities:**

- For many measures of care for mental health disorders, diabetes, cardiovascular diseases, and cancer, Hispanics received worse quality of care than non-Hispanic Whites. Hispanics tended to receive better quality of maternity care.
- Of measures for which Hispanics received worse quality of care than non-Hispanic Whites, narrowing of the gap was observed for several measures of cancer and diabetes care. No narrowing of disparities was observed among measures of cardiovascular and mental health care.

- **Summary:** Of priorities of the Heckler Report:

- Suicide prevention and mental health care for Hispanics is worsening, with many disparities and no reductions in disparities over time.
- Hispanics also experience many disparities in care for diabetes.
- Care for substance use disorders is poor for all ethnic groups.

Care for Cancer

- Thirty years ago, the Heckler Report found that:
 - Overall age-adjusted cancer incidence rates for Hispanics were lower than for Blacks or nonminorities. Specific sites of excess incidence among Hispanics were the stomach, prostate, esophagus, pancreas, and cervix.
 - The overall 5-year relative survival rate of Hispanic males was almost identical to that of nonminorities. Hispanic females had somewhat lower survival rates than nonminority females.

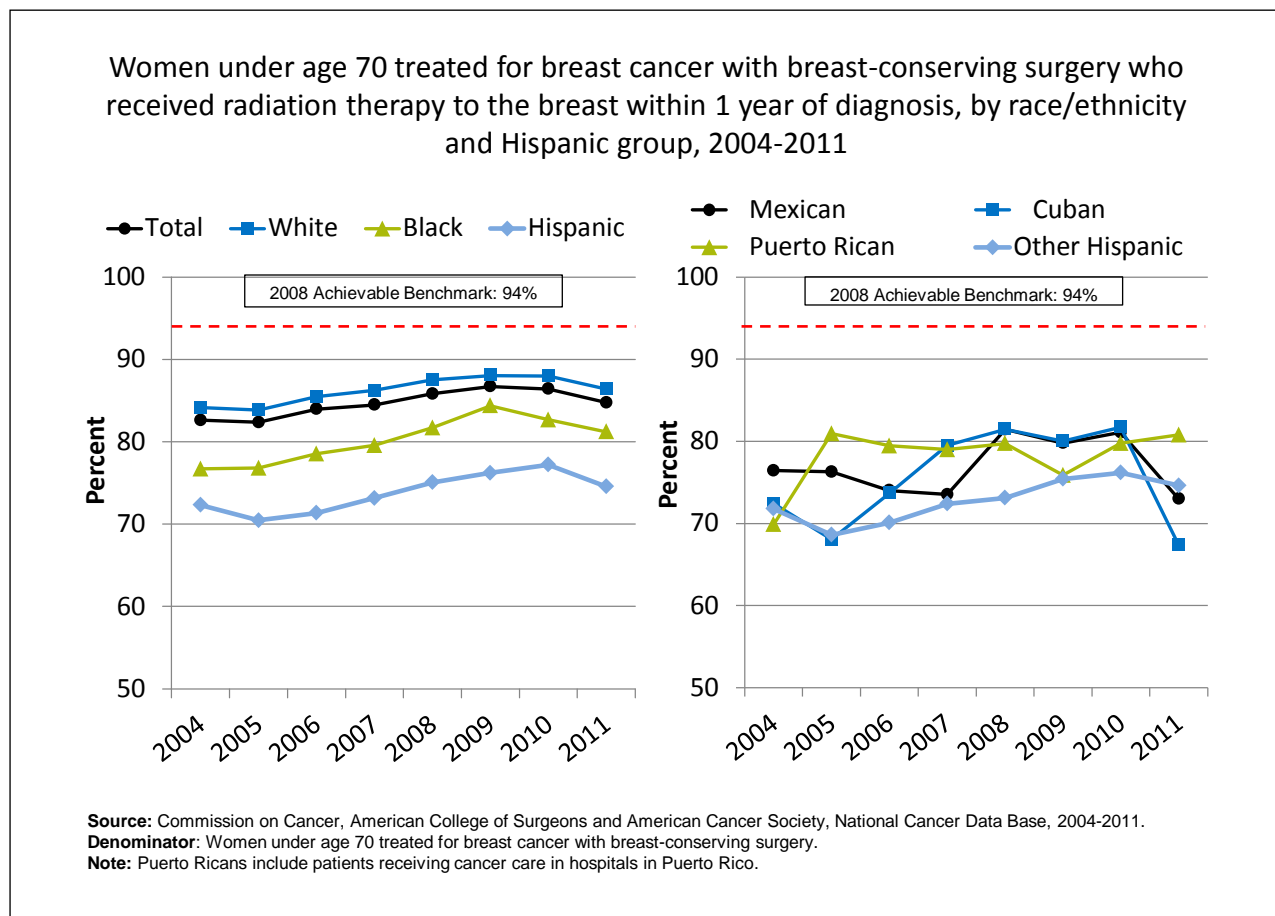
- Mortality data are derived from the National Center for Health Statistics (NCHS) through the vital statistics system. This system classifies Hispanics as Whites, so no death statistics on Hispanics are presented.
- Today, death statistics on Hispanics are available. In addition, quality care for cancer has changed. Evidence-based mass screening is recommended in specific populations for four cancers: breast, cervical, colorectal, and lung cancer. Screening is the first step in the process of cancer prevention (Pap testing for cervical and colonoscopy for colorectal) and early detection (mammography for breast and CT scan for lung) in the process of cancer control. Hence, screenable cancers have been selected for inclusion in this chartbook.

Breast Cancer Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
Women ages 50-74 who received a mammogram in the last 2 years	Same	Narrowing
Breast cancer diagnosed at advanced stage per 100,000 women age 40+	Better	No Change
Women with clinical Stage I-IIb breast cancer who received axillary node dissection or sentinel lymph node biopsy (SLNB) at the time of surgery	Better	No Change
Women under age 70 treated for breast cancer with breast-conserving surgery who received radiation therapy to the breast within 1 year of diagnosis	Worse	No Change
Breast cancer deaths per 100,000 female population per year	Better	No Change

- **Trends:** Most measures of breast cancer care for Hispanics were improving.
- **Groups With Disparities:**
 - Rates of mammography were similar between Hispanic and White women. This represents the elimination of a previously observed disparity.
 - Rates of diagnosis with advanced stage breast cancer and death due to breast cancer were lower among Hispanics compared with non-Hispanic Whites and these disparities were not changing over time.
 - Hispanic women were more likely to receive axillary node dissection at time of surgery and this disparity did not change over time.
 - Hispanics were less likely to receive radiation therapy after breast-conserving surgery compared with Whites. This disparity did not change over time.

Breast Cancer Treatment



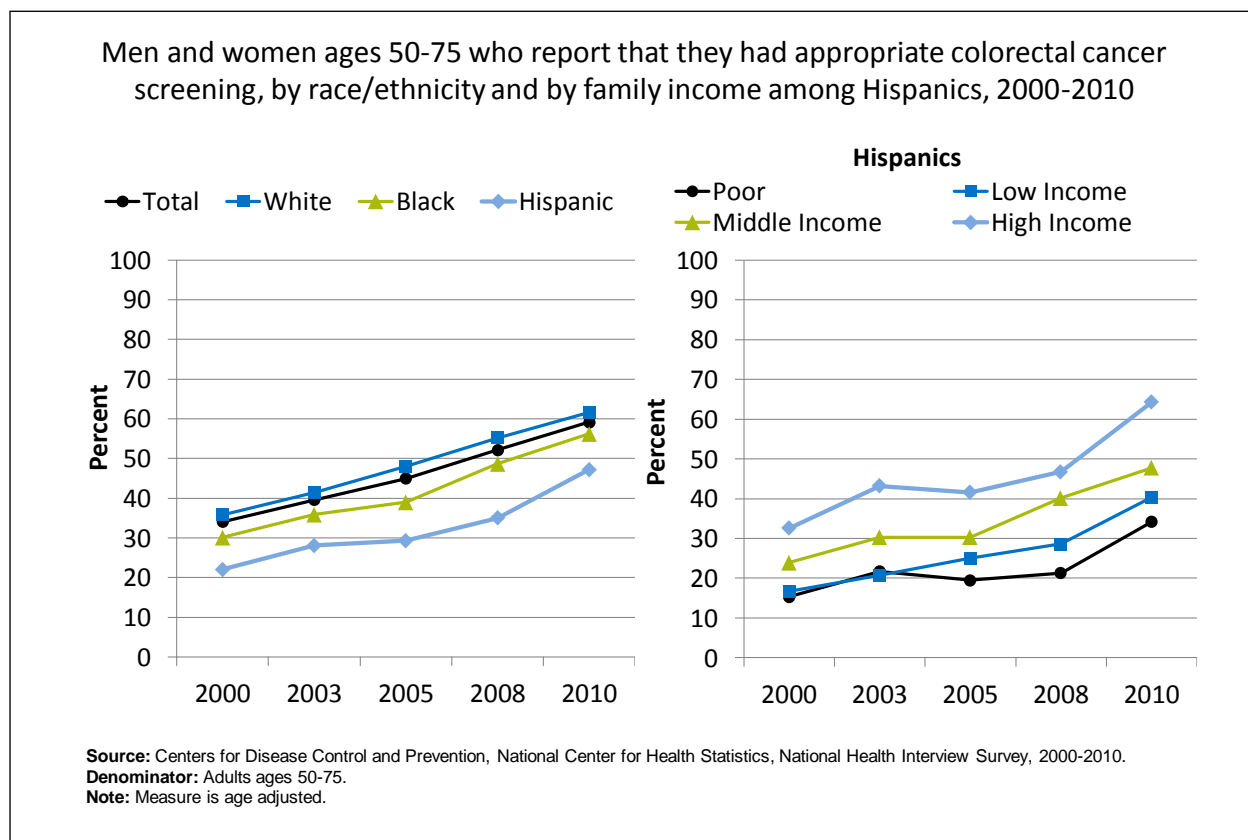
- **Importance:** Radiation therapy after breast-conserving surgery reduces the risk of cancer recurrence and death.
- **Trends:** From 2004 to 2011, the percentage of women with breast-conserving surgery who received radiation therapy to the breast improved overall and among all ethnic groups.
- **Groups With Disparities:**
 - In all years, Hispanic and Black women were less likely to receive radiation therapy to the breast compared with White women.
 - In all years, Mexicans and other Hispanics were also less likely to receive radiation therapy to the breast compared with White women.
- **Achievable Benchmark:**
 - The 2008 top 5 State achievable benchmark was 94%. The top 5 States that contributed to the achievable benchmark are Kansas, Minnesota, Montana, North Dakota, and Wisconsin.
 - At the current rates of improvement, the benchmark could not be achieved overall for about 17 years.
 - At the current rates of improvement, Whites would need 14 years to achieve the benchmark, and Hispanics would need 25 years.

Colorectal Cancer Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
Men and women ages 50-75 who report that they had a blood stool test in the past year, sigmoidoscopy in the past 5 years and blood stool test in the past 3 years, or colonoscopy in the past 10 years	Worse	Growing
Colorectal cancer diagnosed at advanced stage per 100,000 men and women age 50 and over	Better	Growing
Patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined	Same	No Change
Colorectal cancer deaths per 100,000 population per year	Better	Growing

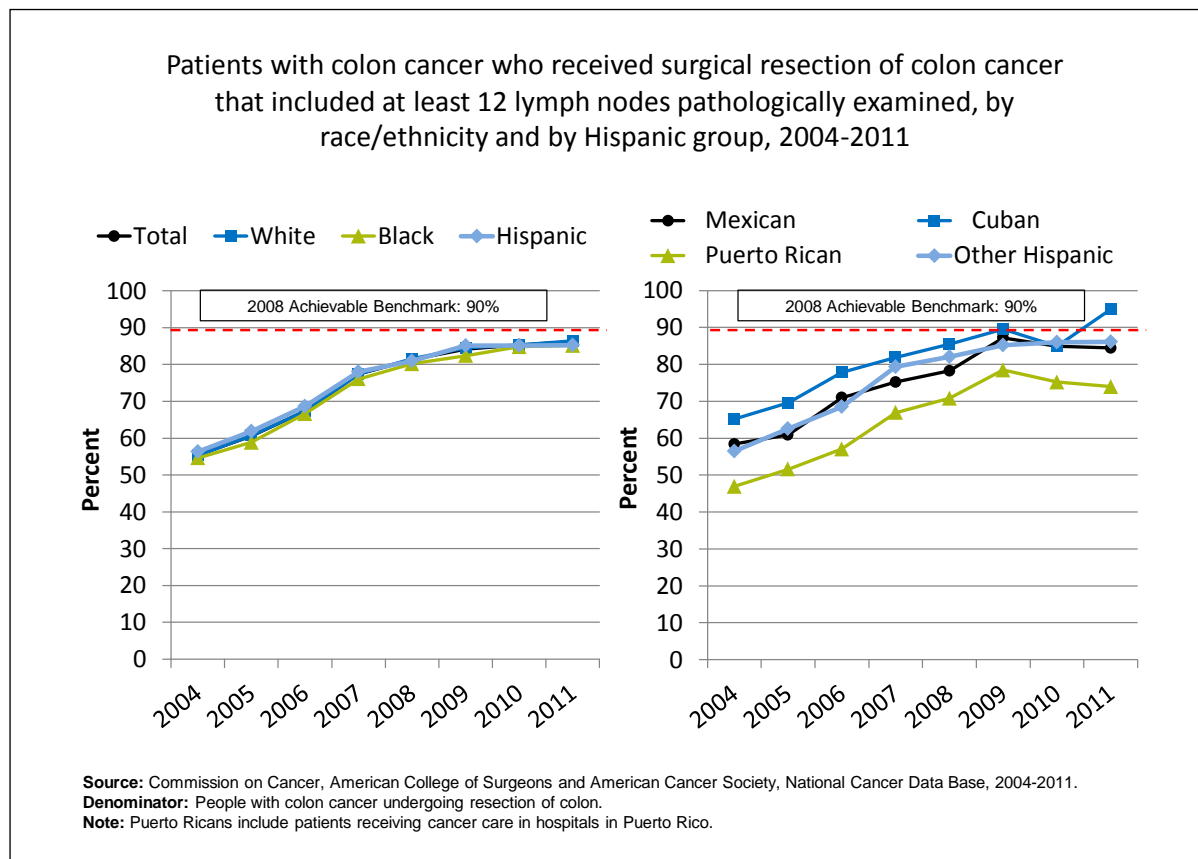
- **Trends:** All measures of colorectal cancer care for Hispanics were improving.
- **Groups With Disparities:**
 - Hispanics were less likely to receive colorectal cancer screening than Whites and this disparity was growing over time.
 - Rates of diagnosis with advanced stage colorectal cancer and death due to colorectal cancer were lower among Hispanics compared with Whites. These disparities were growing over time.
 - Rates of surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined were similar between Hispanics and Whites.

Colorectal Cancer Screening



- **Importance:** Screening can detect abnormal colorectal growths before they develop into cancer. Early detection increases treatment options and the chances for cure. Effective screening modalities include fecal occult blood testing (FOBT), FOBT with flexible sigmoidoscopy, and colonoscopy.
- **Trends:** From 2000 to 2010, the percentage of adults ages 50-75 who received appropriate colorectal cancer screening increased overall and among all ethnic groups.
- **Groups With Disparities:**
 - In all years, the percentage of adults who received appropriate colorectal cancer screening was lower among Hispanics and Blacks compared with Whites.
 - In all years, the percentage of adults who received appropriate colorectal cancer screening was lower among poor and low-income Hispanics compared with high-income Hispanics.

Colon Cancer Treatment



- **Importance:** Recommended cancer treatment depends on different factors, such as the stage or extent of the cancer within the body, especially whether the disease has spread from the original site to other parts of the body. Colon cancer typically begins as a benign polyp that may become cancerous and then spread to local lymph nodes. Hence, ensuring adequate examination of lymph nodes when surgery is performed is important.

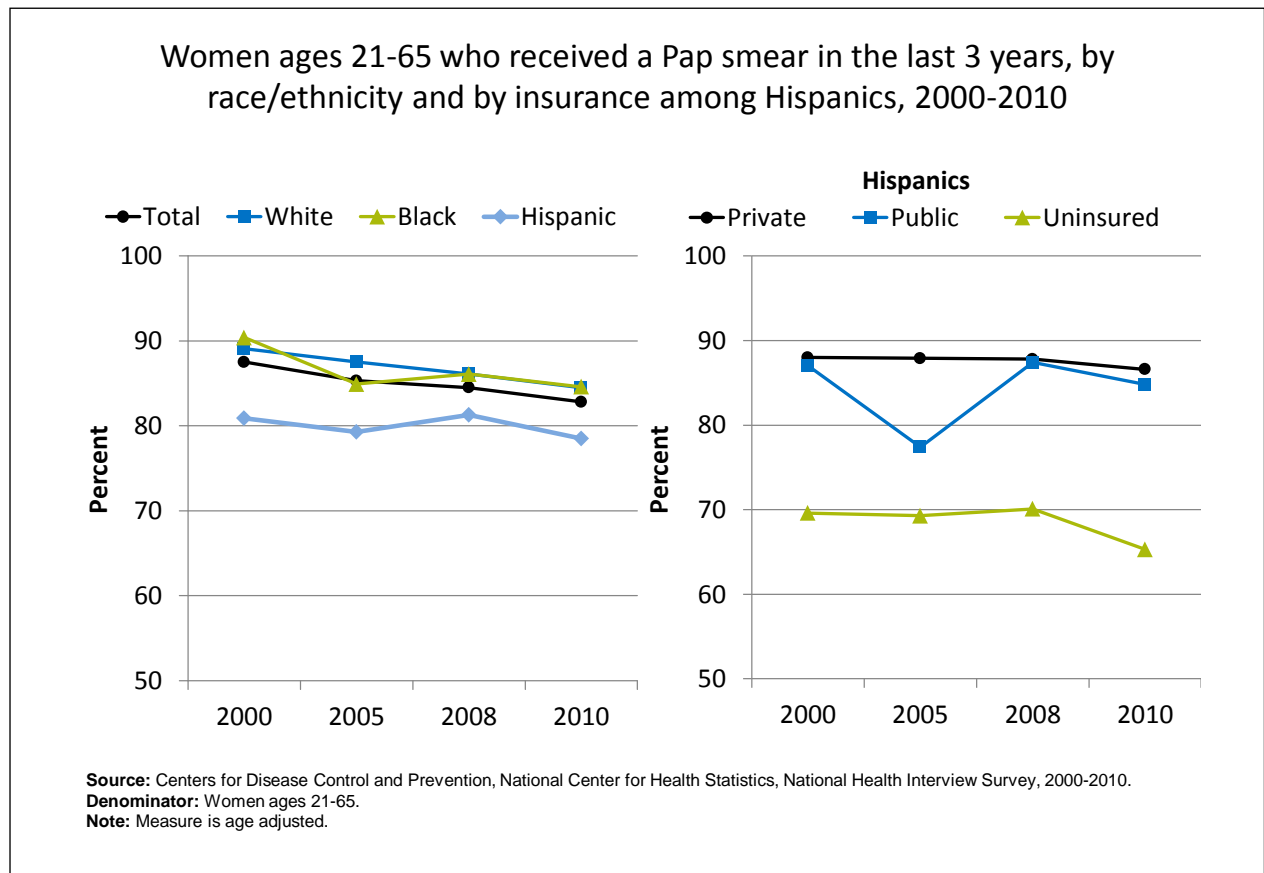
- **Trends:** From 2004 to 2011, the percentage of patients with colon cancer who received surgical resection of colon cancer that included at least 12 lymph nodes pathologically examined improved overall and for all ethnic groups.
- **Groups With Disparities:**
 - In all but 1 year, Puerto Ricans were less likely than Whites to have surgical resection of colon cancer that included at least 12 lymph nodes examined.
- **Achievable Benchmark:**
 - The 2008 top 5 State achievable benchmark was 90%. The top 5 States that contributed to the achievable benchmark are Delaware, Missouri, Utah, Vermont, and Wisconsin.
 - At the current rates of improvement, the achievable benchmark could be attained overall and for all ethnic groups within a year.
 - Cubans have already achieved the benchmark while Puerto Ricans would not reach the benchmark for 4 years.

Other Cancer Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
All cancer deaths per 100,000 population per year	Better	No Change
Women ages 21-65 who received a Pap smear in the last 3 years	Worse	Narrowing
Invasive cervical cancer incidence per 100,000 women age 20 and over	Worse	Narrowing
Men age 75+ without prostate cancer who had a PSA test or digital rectal exam for prostate cancer screening within the past year	Same	No Change
Lung cancer deaths per 100,000 population per year	Better	No Change

- **Trends:** Most measures of other cancer care for Hispanics were improving.
- **Groups With Disparities:**
 - Death rates were lower among Hispanics compared with Whites and were not changing over time for:
 - ◆ All cancers in aggregate.
 - ◆ Lung cancer.
 - Hispanics were less likely to receive appropriate Pap testing and more likely to develop invasive cervical cancer compared with Whites. These disparities were narrowing over time.

Cervical Cancer Screening



- **Importance:** Screening with Pap smears can detect high-grade precancerous cervical lesions that can be removed before they become cancerous.
- **Trends:** From 2000 to 2010, the percentage of women ages 21-65 who received a Pap smear in the last 3 years decreased overall and among White women; no statistically significant changes were noted among Hispanic women.
- **Groups With Disparities:**
 - In all years, the percentage of women who received a Pap smear was lower among Hispanic women compared with White women.
 - In all years, the percentage of women who received a Pap smear was lower among uninsured Hispanic women compared with privately insured Hispanic women.

AHRQ Health Care Innovations in Cancer Screening

[Family Health Partnership Clinic](#)

- Location: McHenry County, Illinois
- Population: Rural, low-income Hispanic women >40
- Intervention: Celebremos La Vida seeks to enhance access to culturally competent cancer screening and educational information by providing a monthly women’s clinic.
- Outcomes: Enhanced access to breast and cervical cancer screening, increased use of primary care services, and high levels of patient satisfaction.

Care for Cardiovascular Diseases

- Thirty years ago, the Heckler Report found that:
 - Cardiovascular disease (CVD) is a major cause of death in Hispanics, although the rate is lower than in Whites. To date, national epidemiologic data on CVD mortality in Hispanics are limited.
 - There appears to be a strong inverse relationship between socioeconomic status (SES) and hypertension in Hispanics, similar to that found for Blacks and Whites.
 - Diabetes mellitus is a major problem in Hispanics, especially in Mexican Americans and Puerto Ricans living in the United States.
 - The generally higher prevalence of obesity, noninsulin-dependent diabetes, hypertension, high LDL cholesterol and low HDL cholesterol levels in Hispanics might be expected to increase their CVD risk. Those Mexican Americans with lowest SES and level of acculturation have significantly worse CVD risk factor profiles than those in higher SES groups.

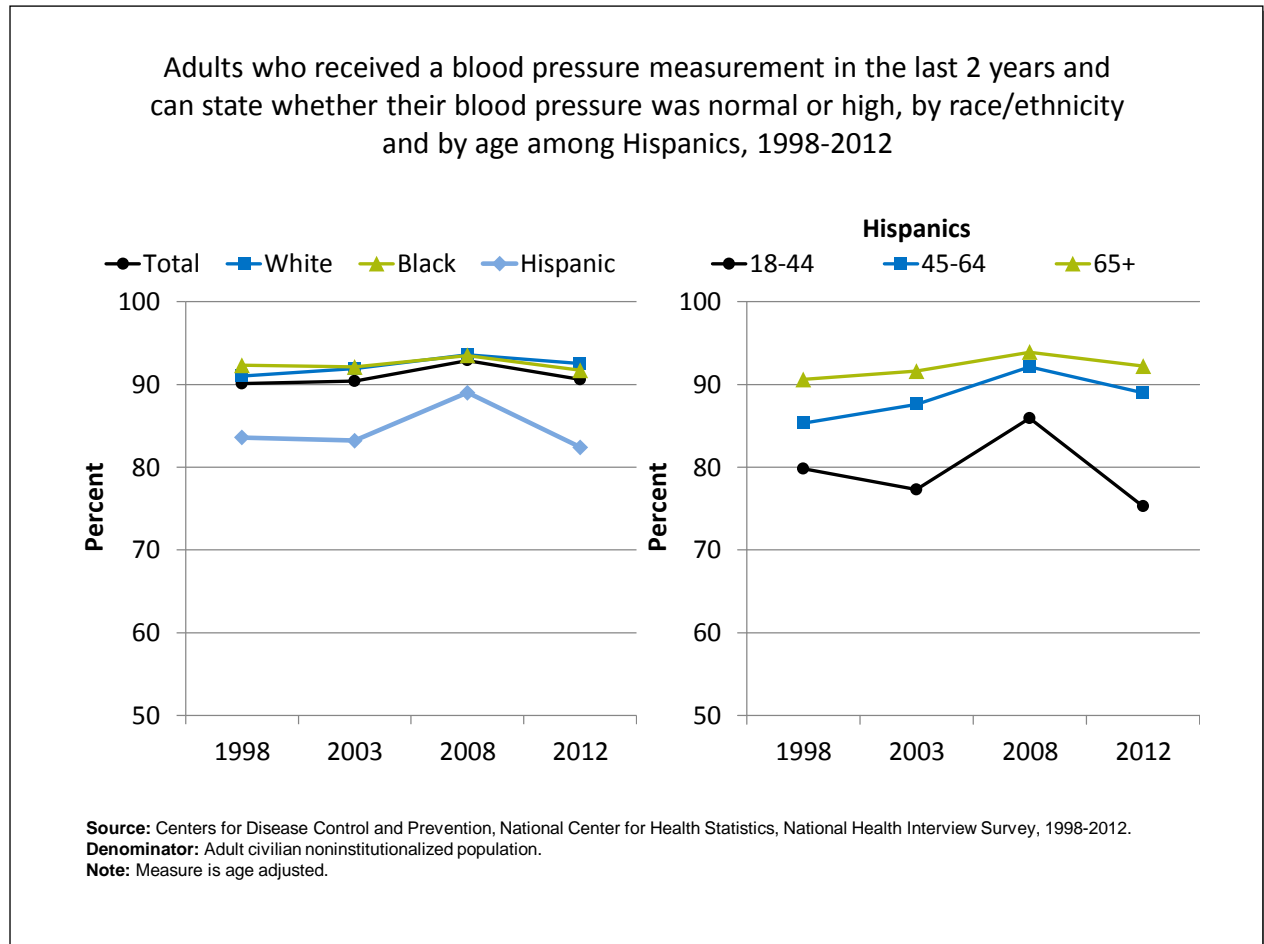
Cardiovascular Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
Adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high	Worse	No Change
Adult admissions for hypertension	Worse	No Change
Adult admissions for angina without cardiac procedure	Worse	No Change
Adult admissions for congestive heart failure	Same	Narrowing
Hospital patients with heart failure and left ventricular systolic dysfunction who were prescribed angiotensin-converting enzyme inhibitor or angiotensin receptor blocker at discharge	Better	No Change
Hospital patients with heart attack given percutaneous coronary intervention within 90 minutes of arrival	Worse	No Change
Hospital patients with heart attack given fibrinolytic medication within 30 minutes of arrival	Same	No Change

- **Trends:** Most measures of cardiovascular care for Hispanics were improving.
- **Groups With Disparities:**
 - Hispanics were less likely than Whites to have their blood pressure checked and to receive timely percutaneous coronary intervention when hospitalized with a heart attack. These disparities did not change over time.
 - Hispanics had higher rates of admission than Whites for hypertension and for angina and these disparities did not change over time.
 - Hispanics and Whites had similar rates of admission for congestive heart failure. This represents the elimination of a previously observed disparity.
 - Hispanics and Whites had similar rates of receipt of fibrinolytic medication for heart attack.

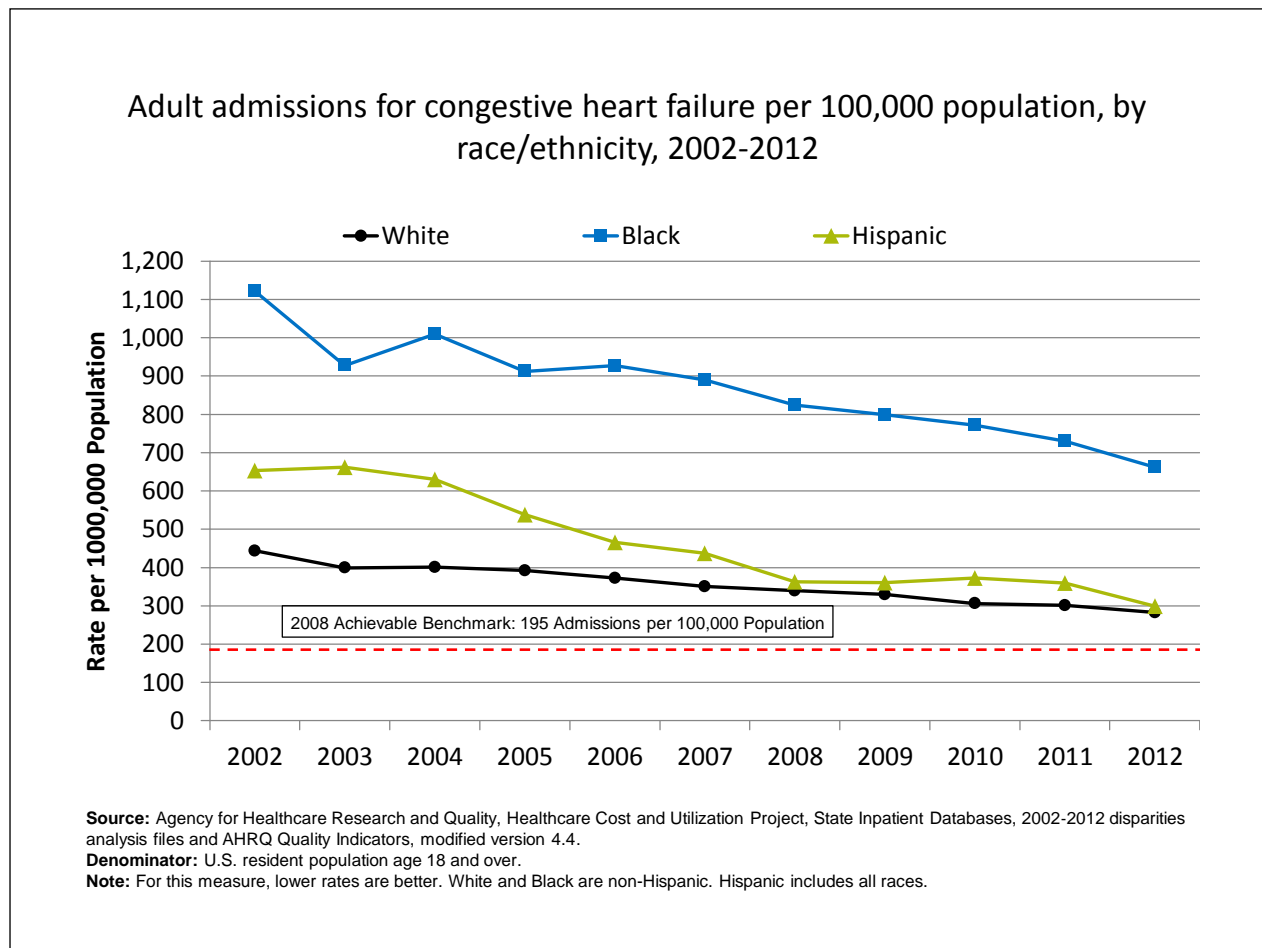
- Hispanics hospitalized with heart failure were more likely to be prescribed angiotensin-converting enzyme inhibitor or angiotensin receptor blocker at discharge and this disparity did not change over time.

Blood Pressure Measurement



- **Importance:** Early detection and treatment of high blood pressure can prevent heart failure, kidney failure, and stroke. Because high blood pressure typically causes no symptoms, screening is essential.
- **Trends:** From 1998 to 2012, the percentage of adults who received a blood pressure measurement in the last 2 years and can state whether their blood pressure was normal or high did not change overall or for any ethnic group.
- **Groups With Disparities:**
 - In all years, Hispanic adults were less likely to receive a blood pressure measurement compared with Whites.
 - In all years, Hispanics ages 18-44 were less likely to receive a blood pressure measurement compared with Hispanics age 65 and over.

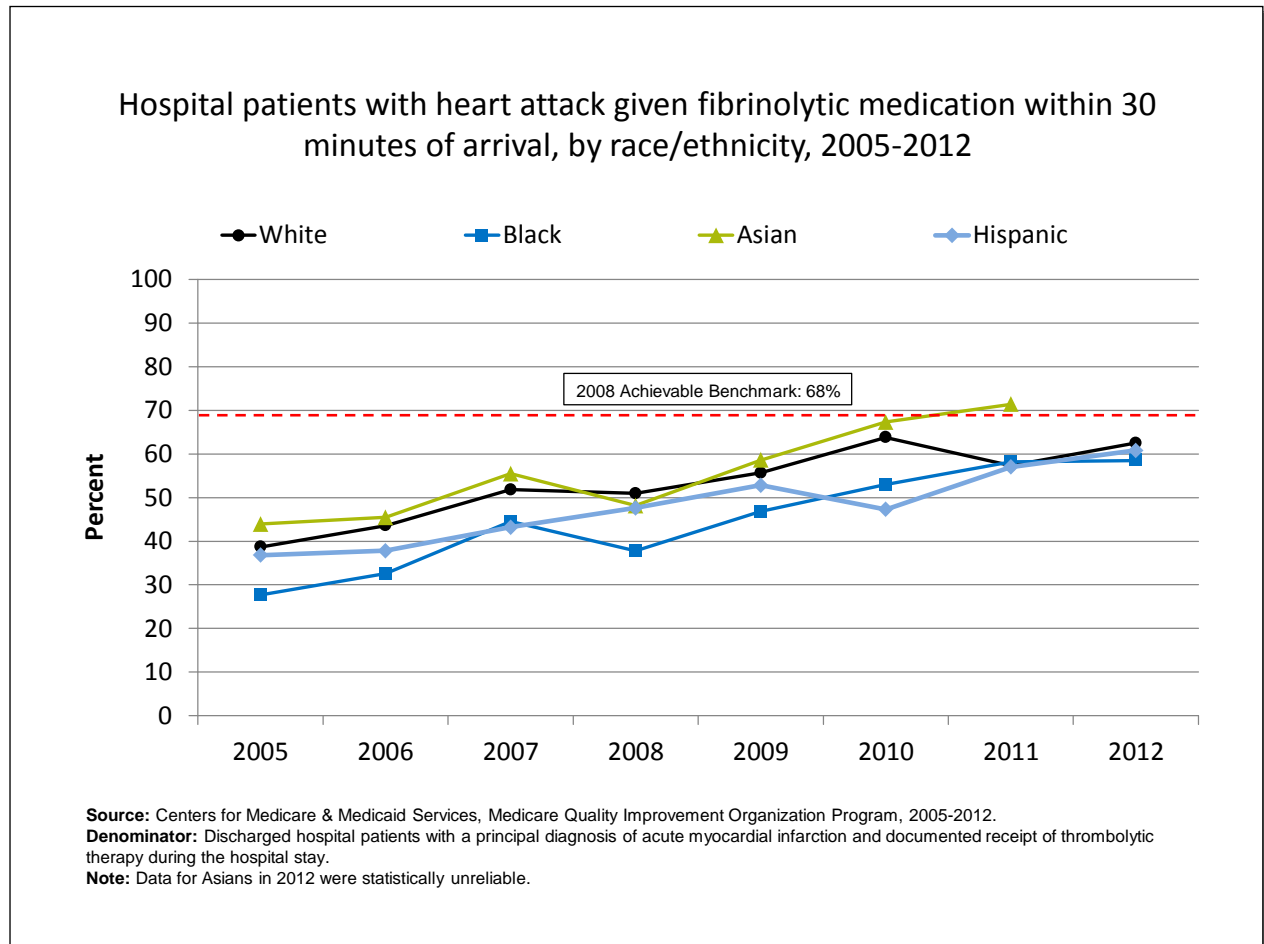
Admissions for Congestive Heart Failure



- **Importance:** Racial disparities in care for congestive heart failure have been observed.
- **Trends:** From 2002 to 2012, the rate of admission for congestive heart failure among adults decreased significantly for all ethnic groups.
- **Groups With Disparities:**
 - In all years, compared with White patients, rates of admission for congestive heart failure were higher among Black patients.
 - From 2002 to 2007, rates of admission for congestive heart failure were higher among Hispanic patients compared with White patients; in more recent years, this disparity was eliminated.
- **Achievable Benchmark:**
 - The 2008 top 4 State achievable benchmark for adult congestive heart failure admissions was 195 admissions per 100,000 population. The top 4 States that contributed to the achievable benchmark are Colorado, Oregon, Utah, and Vermont.

- At current rates of improvement, Hispanic patients could achieve the benchmark in 3 years and White patients could achieve it in 6 years. Black patients would need 12 years to achieve the benchmark.

Heart Attack Patients Given Timely Fibrinolytic Medication



- **Importance:** Some heart attacks are caused by blood clots. Early actions, such as fibrinolytic medication, may open blockages caused by blood clots, reduce heart muscle damage, and save lives. To be effective, these actions need to be performed quickly after the start of a heart attack.
- **Trends:** From 2005 to 2012, the percentage of patients who received timely fibrinolytic medication improved overall and for all racial/ethnic groups.
- **Groups With Disparities:** Until 2011, the percentage of patients who received timely fibrinolytic medication was significantly higher for Whites than for Blacks.
- **Achievable Benchmark:**
 - The 2010 top 5 State achievable benchmark was 68%. The top 5 States that contributed to the achievable benchmark are Arkansas, California, Georgia, Mississippi, and Texas.
 - Asian heart attack patients achieved the benchmark in 2011.

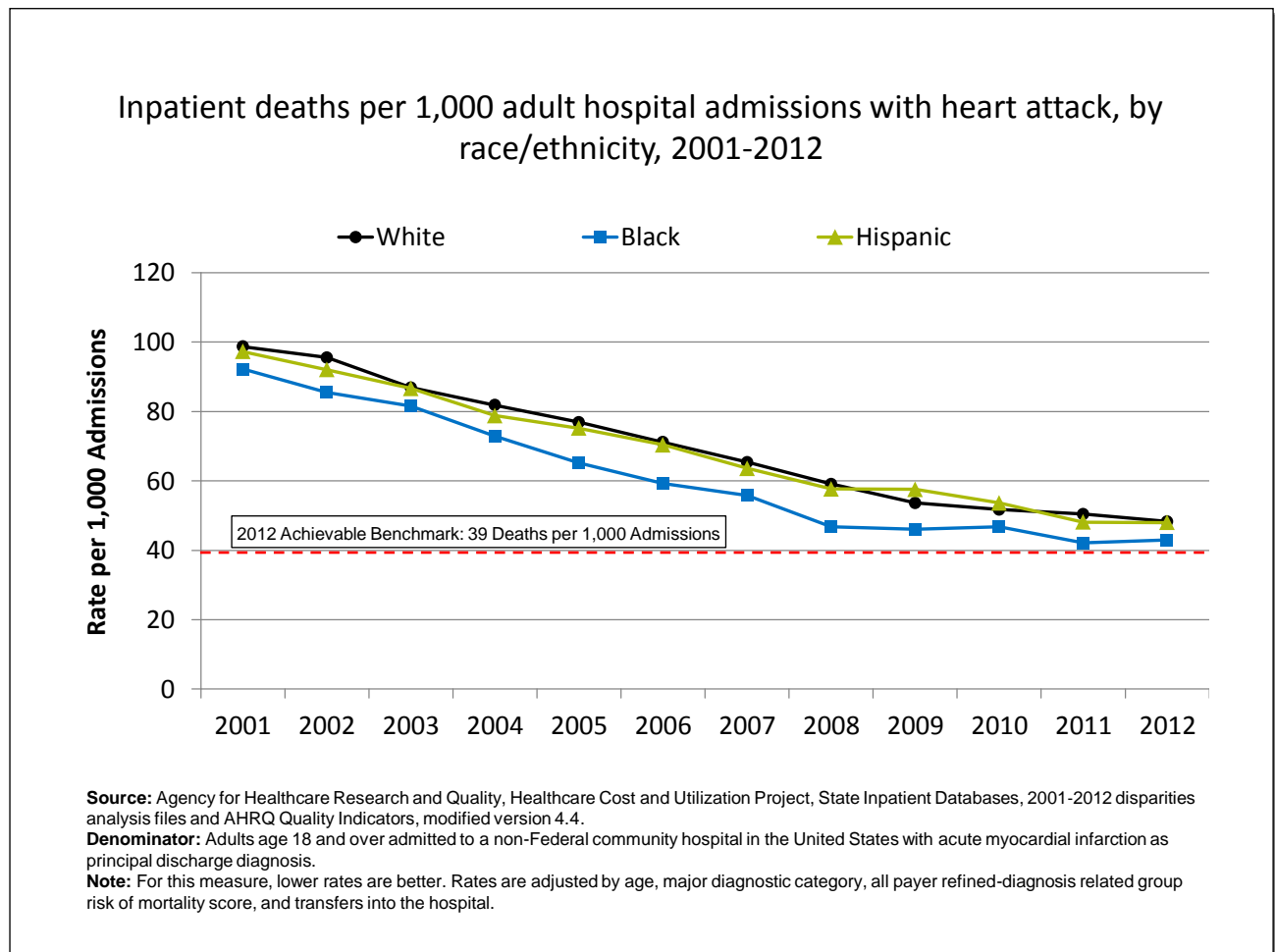
- At the current rate of improvement, the achievable benchmark could be attained overall in 2 years. In addition, White, Black, and Hispanic heart attack patients should all reach the benchmark in 2 years.

Outcomes of Cardiovascular Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
Deaths per 1,000 hospital admissions with acute myocardial infarction (AMI), age 18+	Same	No Change
Deaths per 1,000 hospital admissions with congestive heart failure (CHF), age 18+	Better	No Change
Deaths per 1,000 hospital admissions with abdominal aortic aneurysm repair, age 18+	Same	No Change
Deaths per 1,000 hospital admissions with coronary artery bypass graft, age 40+	Same	No Change
Deaths per 1,000 hospital admissions with percutaneous transluminal coronary angioplasty, age 40+	Same	No Change

- **Trends:** Most measures of deaths from cardiovascular care for Hispanics were improving.
- **Groups With Disparities:**
 - Hispanics and Whites had similar death rates when hospitalized for:
 - ◆ Acute myocardial infarction.
 - ◆ Abdominal aortic aneurysm repair.
 - ◆ Coronary artery bypass graft surgery.
 - ◆ Percutaneous transluminal coronary angioplasty.
 - Hispanics had lower death rates than Whites when hospitalized for congestive heart failure and there was no change in this disparity over time.

Inpatient Deaths With Heart Attack



- **Importance:** Racial disparities in heart attack care have been observed.
- **Trends:** From 2001 to 2012, the risk-adjusted inpatient mortality rate for hospital admissions with heart attack decreased significantly for all ethnic groups.
- **Groups With Disparities:** In 2012, Black patients had lower inpatient mortality rates for hospital admissions with heart attack than White patients.
- **Achievable Benchmark:**
 - The 2008 top 4 State achievable benchmark for inpatient heart attack mortality was 48 deaths per 1,000 admissions. By 2012, this benchmark had been attained for all racial/ethnic groups.
 - Because the 2008 benchmark was achieved by the total population, a new 2012 top 4 State achievable benchmark was set at 39 deaths per 1,000 admissions. The top 4 States that contributed to the achievable benchmark are Alaska, Arizona, Michigan, and Rhode Island.
 - At current rates of improvement, all ethnic groups could reach the 2012 benchmark in approximately 2 years.

Care for Substance Use Disorders

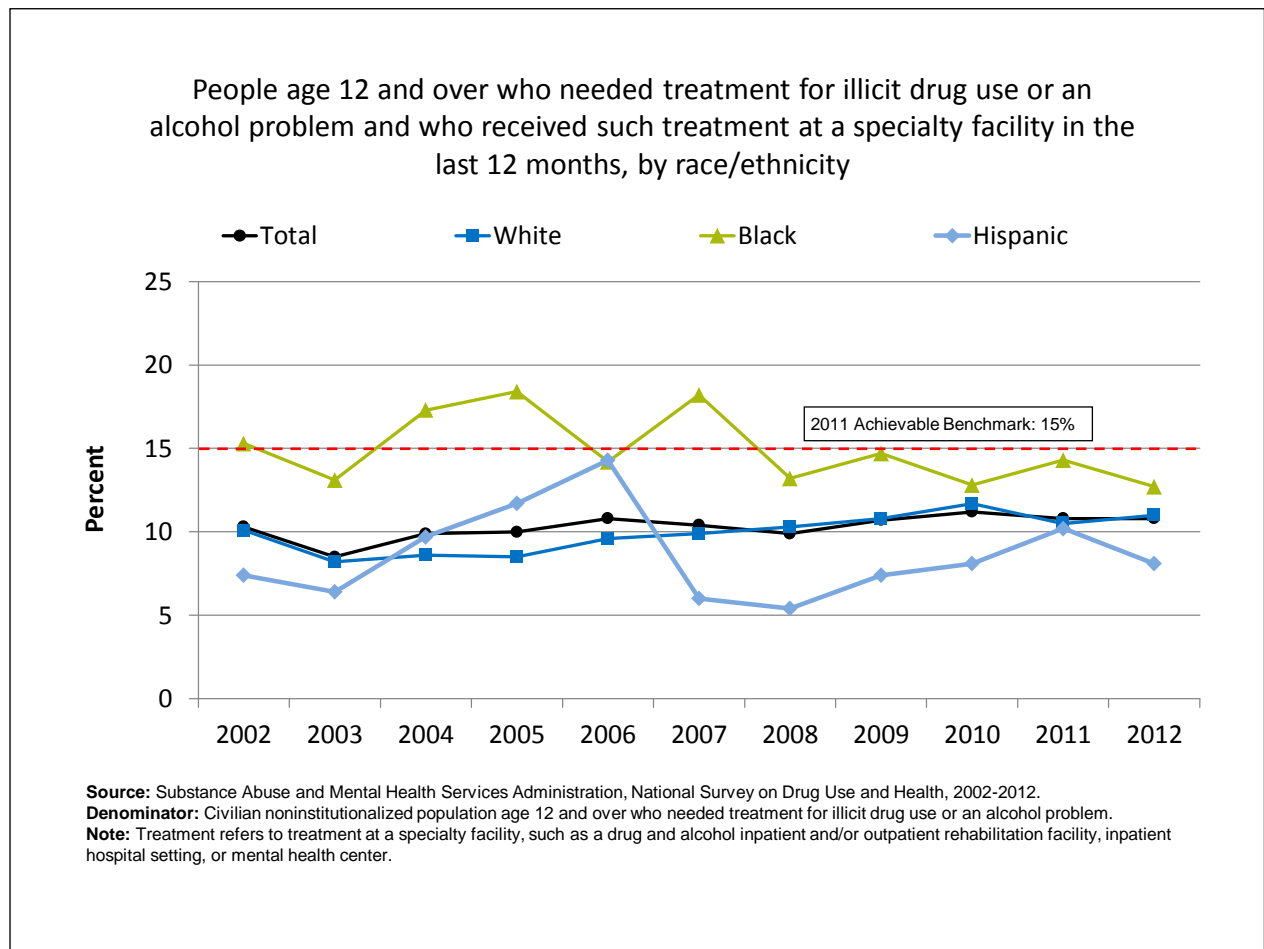
- Thirty years ago, the Heckler Report found that:
 - Mortality statistics for the United States do not identify Hispanics separately, and until 1976, most other common measures of alcohol-related problems such as arrest and hospital discharge rates did not provide a Hispanic identifier. The 1979 National Institute on Alcohol Abuse and Alcoholism National Survey indicates that based on self-reported data, Hispanic American males age 18 and over have higher levels of heavy drinking and higher rates of alcohol-related problems than do nonminorities.
 - Results from the 1983 single-room occupancy hotels study of drug abuse in New York City suggest that Hispanics have higher rates of drug use than Whites for marijuana, cocaine, heroin, and illicit methadone.
 - Lung and esophageal cancer morbidity and mortality rates, known to be related to smoking, are lower for Hispanics than for Whites and Blacks.

Care for Substance Use Disorders for Hispanics

Measure	Most Recent Disparity	Disparity Change
People age 12 and over who received any illicit drug or alcohol abuse treatment in the last 12 months	Same	No Change
People age 12 and over who needed treatment for illicit drug use or an alcohol problem and who received such treatment at a specialty facility in the last 12 months	Same	No Change
People age 12 and over treated for substance abuse who completed treatment course	Same	No Change

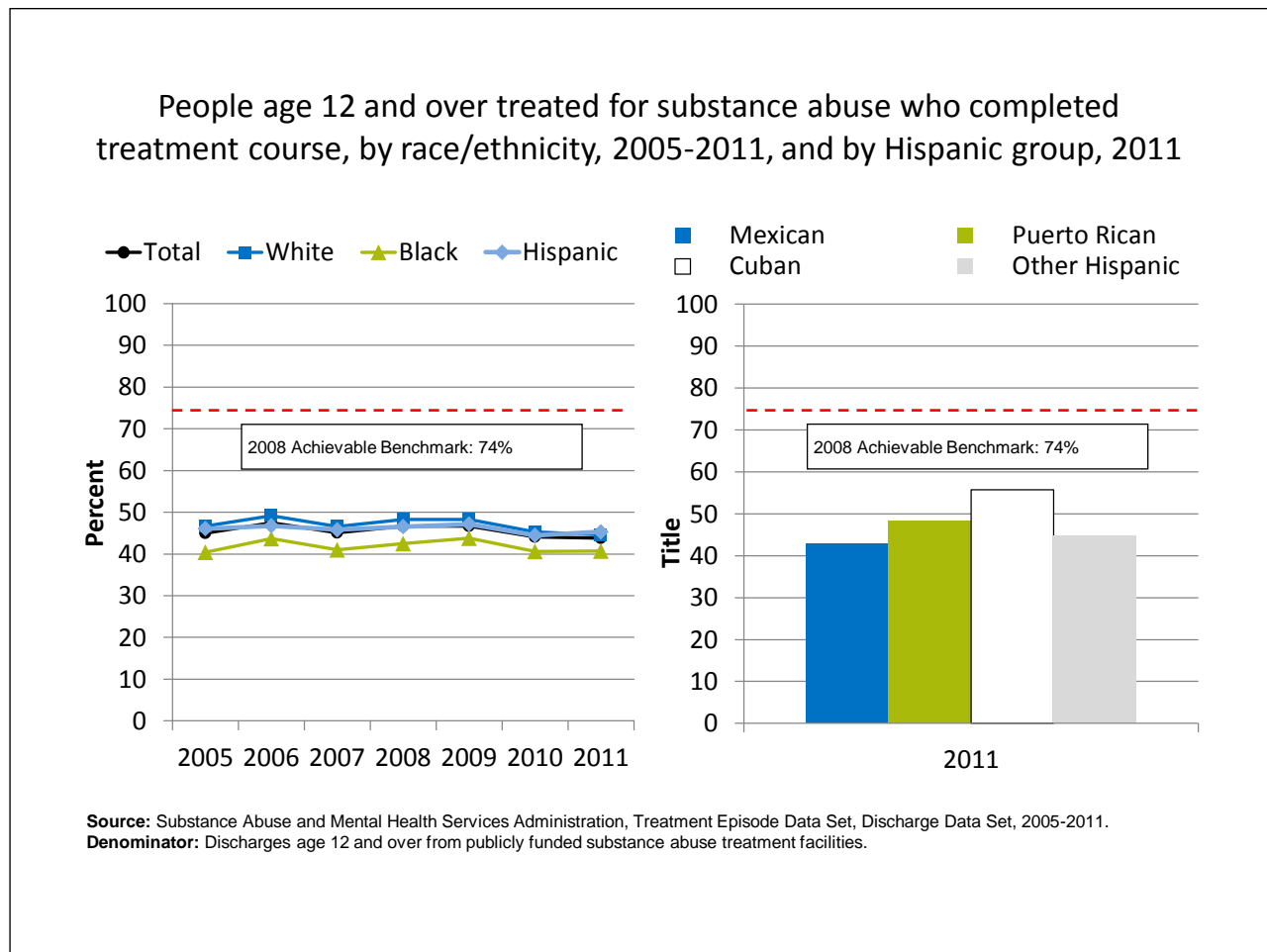
- **Trends:** No measure of care for substance use disorders was improving for Hispanics.
- **Groups With Disparities:** Hispanics and Whites had similarly low rates of treatment for substance use disorders.

Substance Abuse Treatment



- **Overall Rate:** In 2012, only 10.8% of people age 12 and over who needed treatment for illicit drug use or an alcohol problem received such treatment at a specialty facility in the last 12 months.
- **Groups With Disparities:** From 2002 to 2012, there were no statistically significant differences by race/ethnicity.
- **Achievable Benchmark:**
 - The 2011 top 6 State achievable benchmark was 15%. The top 6 States that contributed to the achievable benchmark are Alabama, Alaska, Delaware, Maryland, Oregon, and Utah.
 - At the current rate, the total population would need 30 years to achieve this benchmark. Whites could achieve the benchmark in 15 years while Blacks and Hispanics are moving away from the benchmark.

Completion of Substance Abuse Treatment Course



- **Overall Rate:** In 2011, 43.7% of people age 12 and over treated for substance abuse completed their treatment course.
- **Groups With Disparities:**
 - In 4 of 7 years, Blacks who were treated for substance abuse were significantly less likely than Whites to complete treatment.
 - Hispanics and Whites had similar rates of treatment completion.
 - In 2011, Cubans who were treated for substance abuse were significantly more likely than Whites to complete treatment.
- **Achievable Benchmark:**
 - The 2008 top 5 State achievable benchmark was 74%. The top 5 States that contributed to the achievable benchmark are Colorado, Connecticut, District of Columbia, Mississippi, and Texas.
 - No group showed progress toward the benchmark.

Care for Diabetes

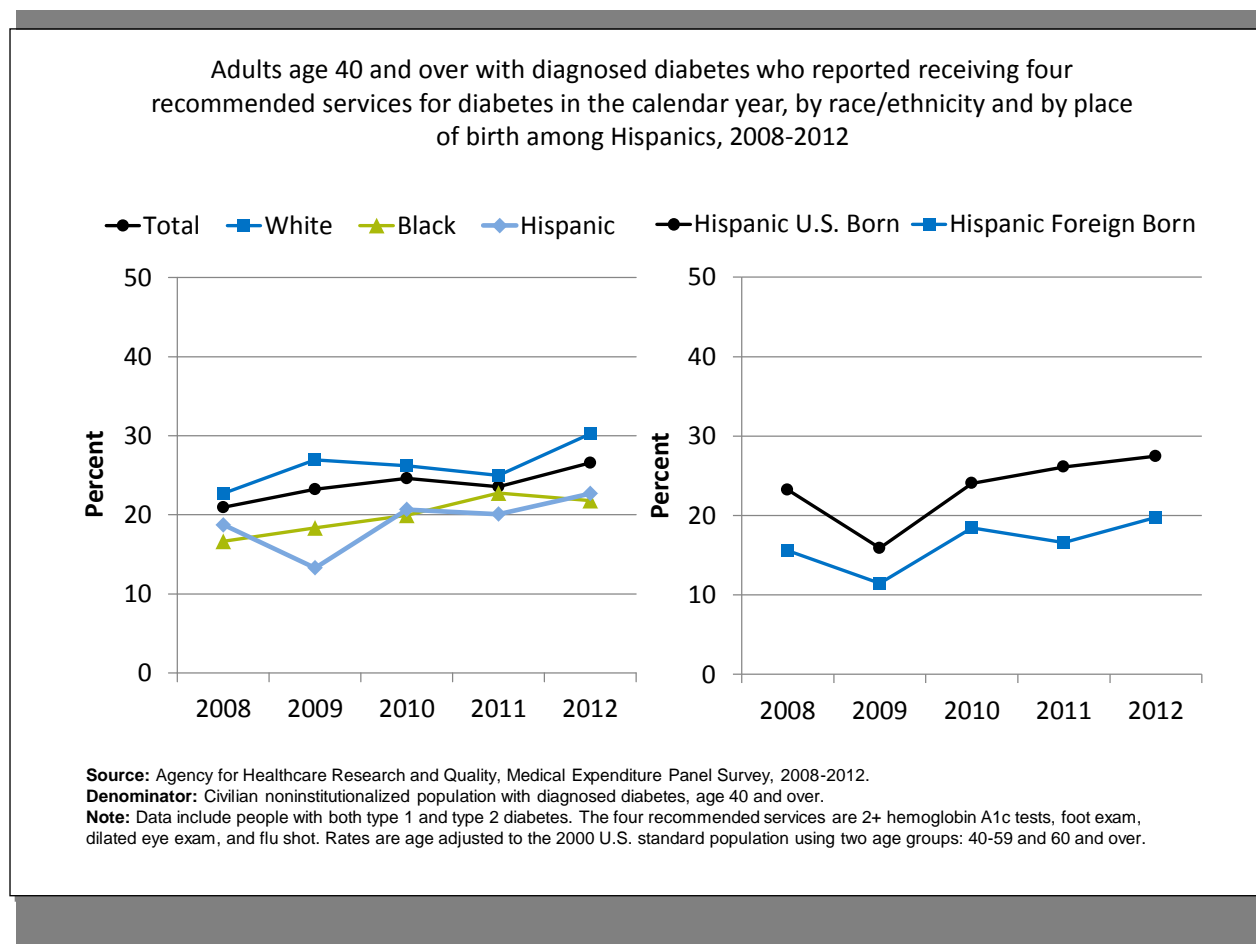
- Thirty years ago, the Heckler Report found that:
 - Among the 14.6 million individuals of Hispanic origin in the United States, the prevalence of diabetes was more than three times the rate in the White population.
 - From available data, it is clear that diabetes is a major health burden contributing to excess morbidity and mortality in the Mexican American population. The data are still inadequate, however, to say with certainty whether this increased prevalence of diabetes is shared by other Hispanic subgroups.

Diabetes Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
Adults age 40 and over with diabetes whose condition was diagnosed	Worse	Insufficient Data
Adults age 40 and over with diagnosed diabetes who received all four recommended services for diabetes in the calendar year	Worse	No Change
Adults age 40 and over with diagnosed diabetes with hemoglobin A1c under control	Same	Insufficient Data
Adults age 40 and over with diagnosed diabetes with blood pressure under control	Same	Insufficient Data

- **Trends:** Data are insufficient to assess trends for most measures of diabetes care for Hispanics.
- **Groups With Disparities:**
 - Hispanics were less likely than Whites to have their diabetes diagnosed.
 - After diagnosis, Hispanics were less likely than Whites to receive recommended services for diabetes and this disparity was not changing over time.

Recommended Services for Diabetes



- **Importance:**

- Regular hemoglobin A1c (HbA1c) tests, foot exams, dilated eye exams, and flu shots help people keep their diabetes under control and avoid diabetic complications.
- A composite measure is used to track the national rate of receipt of all four of these recommended annual diabetes interventions.

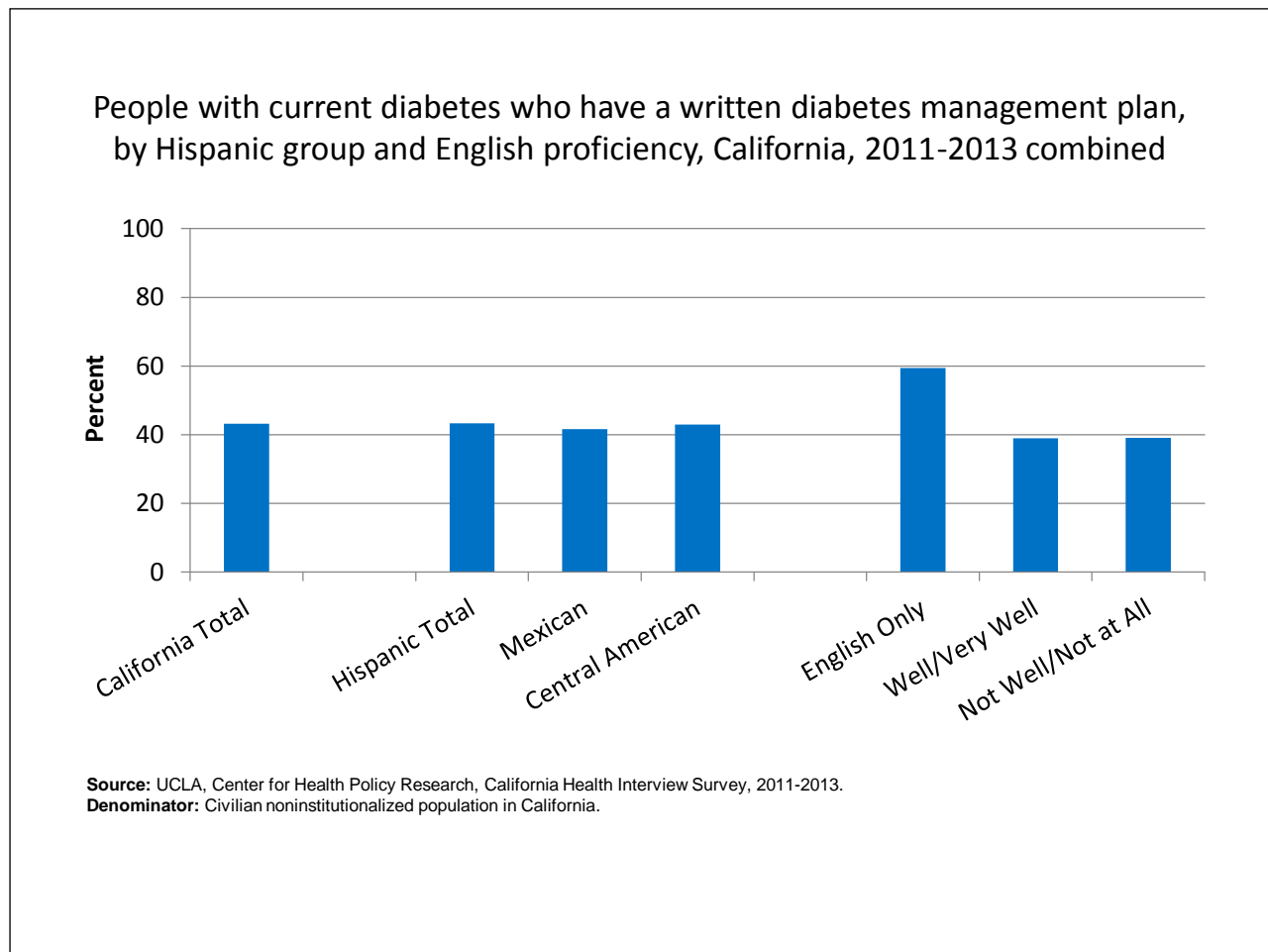
- **Trends:**

- From 2008 to 2012, among adults age 40 and over with diagnosed diabetes, improvements were observed overall and among Blacks.
- However, only slightly more than one-fourth (26.6 percent) of adults with diabetes reported receiving all four recommended services in 2012.

- **Groups With Disparities:**

- In 2 of 5 years, including 2012, Hispanics and Blacks were less likely than Whites to receive the recommended services.
- In all years, foreign-born Hispanics were less likely than U.S.-born Hispanics to receive the recommended services, but these differences were not statistically significant.

Written Diabetes Management Plan

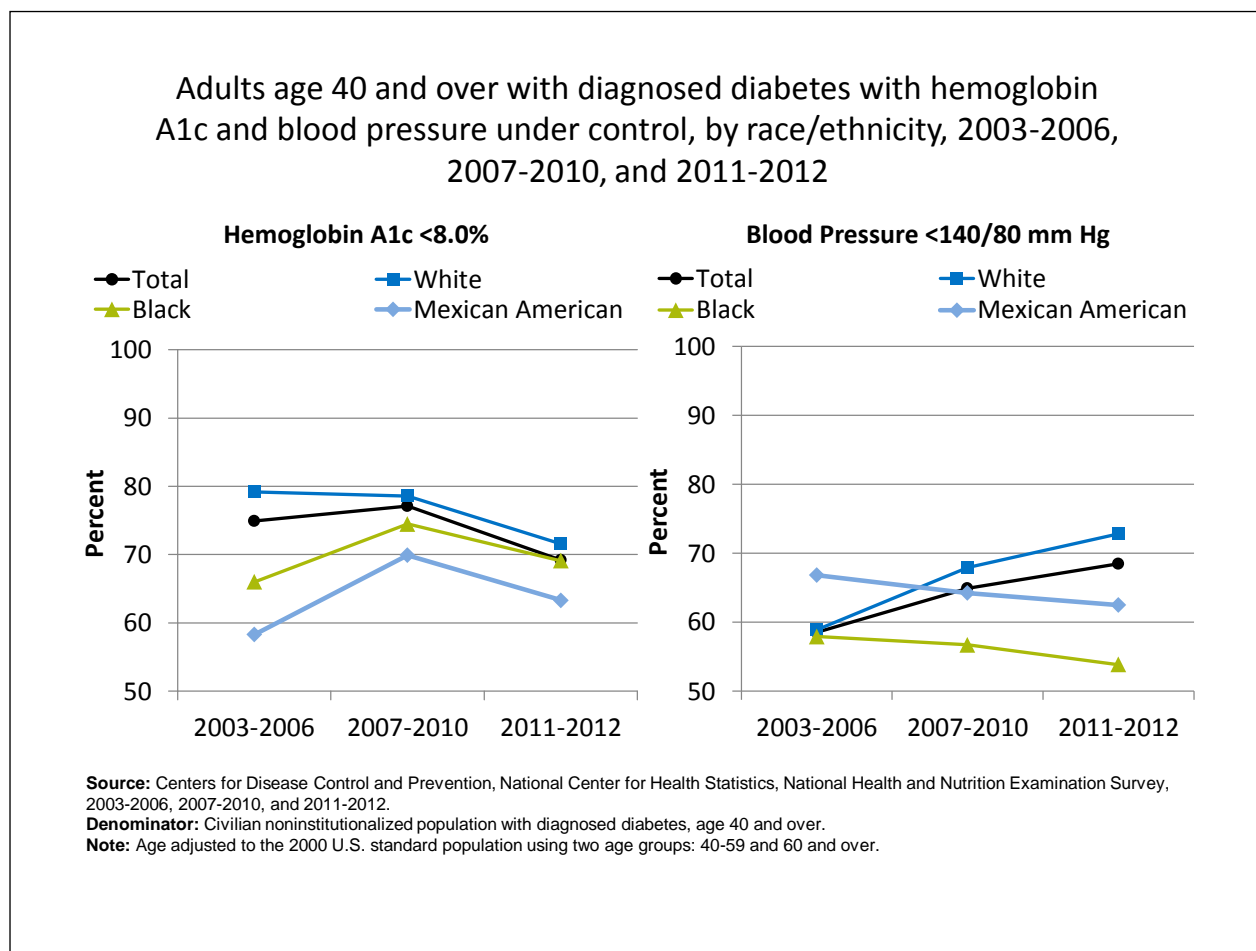


- **Importance:**

- A successful partnership for diabetes care requires providers to educate patients about daily management of their diabetes. Hence, providers should develop a written diabetes management plan, especially for patients with a history of uncontrolled diabetes.
- National data on diabetes management and outcomes for some underserved populations are not available from the national data sources in the QDR. These populations include people with limited English proficiency; individuals who speak a language other than English at home; and Hispanic subpopulations. To address some of these data gaps, we show additional data from the California Health Interview Survey.

- **Overall Rate:** Only 43% of Californians with current diabetes had a written diabetes management plan in 2011-2013.
- **Groups With Disparities:** Among Hispanic Californians with diabetes, those who spoke English well/very well and not well/not at all were less likely than those who spoke English only to have a written diabetes management plan.

Control of Hemoglobin A1c and Blood Pressure



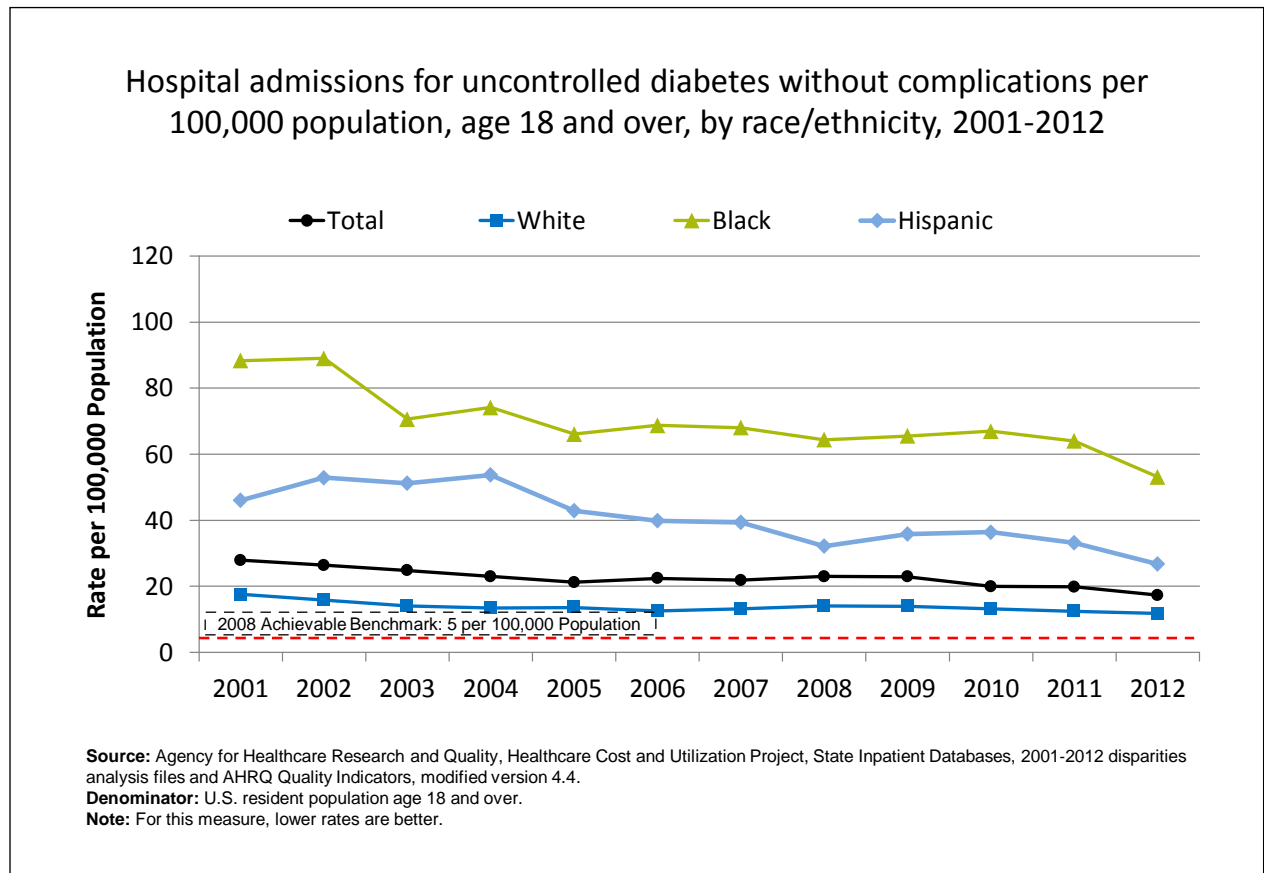
- **Importance:** People diagnosed with diabetes are often at higher risk for other cardiovascular risk factors, such as high blood pressure. Having these conditions in combination with diagnosed diabetes increases the likelihood of complications, such as heart and kidney diseases, blindness, nerve damage, and stroke. Patients who manage their diagnosed diabetes and maintain an HbA1c level <8% and blood pressure <140/80 mm Hg can decrease these risks.
- **Overall Rate:** Among adults age 40 and over with diagnosed diabetes, 69.2% achieved HbA1c less than 8% and 68.5% achieved blood pressure less than 140/80 mm Hg in 2011-2012.
- **Groups With Disparities:**
 - In 2003-2006, Blacks and Mexican Americans were less likely than Whites to have their HbA1c under control. Differences in 2007-2010 and 2011-2012 were not statistically significant.
 - In 2007-2010 and 2011-2012, Blacks were less likely than Whites to have their blood pressure under control.

Outcomes of Diabetes Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
Admissions for uncontrolled diabetes without complications per 100,000 population, age 18 and over	Worse	Narrowing
Admissions with diabetes with short-term complications per 100,000 population, age 18 and over	Same	Narrowing
Admissions with diabetes with short-term complications per 100,000 population, ages 6-17	Better	No Change
Admissions with diabetes with long-term complications per 100,000 population, age 18 and over	Worse	Narrowing
Adjusted incident rates of end stage renal disease (ESRD) due to diabetes per million population	Worse	No Change

- **Trends:** Most outcomes of diabetes care for Hispanics were improving.
- **Groups with Disparities:**
 - Hispanics had higher rates of admission than Whites for uncontrolled diabetes and for long-term complications of diabetes. These disparities were narrowing over time.
 - Hispanic adults and White adults had similar rates of admission for short-term complications of diabetes. This represents the elimination of a previously observed disparity.
 - Hispanic children had lower rates of admission than White children and this disparity was not changing over time.
 - Hispanics had higher rates of ESRD due to diabetes than Whites and this disparity was not changing over time.

Hospital Admissions for Uncontrolled Diabetes



- **Importance:**

- Individuals who do not achieve good control of their diabetes may develop symptoms that require correction through hospitalization.
- Admission rates for uncontrolled diabetes may be reduced by better outpatient treatment and patients’ tighter adherence to the recommended diet and medication.

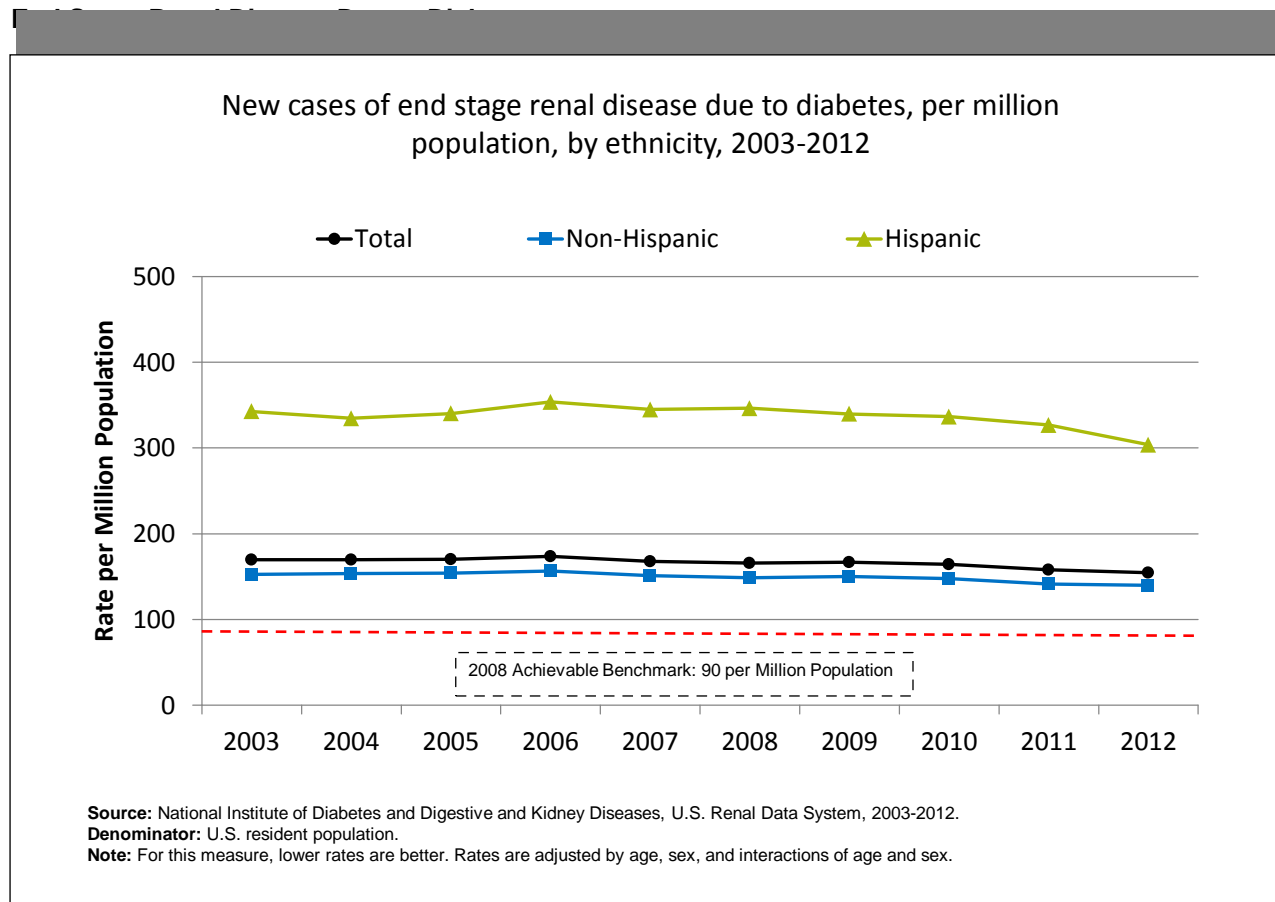
- **Trends:**

- The rate of hospital admissions for uncontrolled diabetes without complications per 100,000 population decreased from 27.9 in 2001 to 17.3 in 2012.
- From 2001 to 2012, the rate of hospital admissions per 100,000 population decreased for all populations:
 - ◆ For Hispanics, from 46.0 to 26.7.
 - ◆ For Blacks, from 88.3 to 53.1.
 - ◆ For Whites, from 17.6 to 11.7.

- **Groups With Disparities:** In all years, the rate of hospital admissions for uncontrolled diabetes was higher for Blacks and Hispanics compared with Whites.

• **Achievable Benchmark:**

- The 2008 top 4 State achievable benchmark was 5 admissions per 100,000 population age 18 and over. The top 4 States that contributed to the achievable benchmark are Colorado, Hawaii, Utah, and Vermont.
- At the current rate, the benchmark could not be met for the total population for approximately 17 years.
- At the current rates, Whites could not reach the benchmark for 22 years and Blacks would need 20 years. Hispanics could reach the benchmark in 10 years.



- **Importance:** Diabetes is the most common cause of kidney failure. Keeping blood glucose levels under control can prevent or slow the progression of kidney disease. When kidney disease is detected early, medication can slow the disease’s progress; when detected late, it commonly progresses to end stage renal disease requiring dialysis or kidney transplantation. While some cases of kidney failure due to diabetes cannot be avoided, other cases reflect inadequate control of blood glucose or delayed detection and treatment of early kidney disease due to diabetes.
- **Trends:** From 2003 to 2012, the overall rate of new cases of ESRD due to diabetes improved for Hispanics.
- **Groups With Disparities:** In all years, Hispanics had higher rates than non-Hispanics.

- **Achievable Benchmark:**

- The 2008 top 5 State achievable benchmark was 90 per million population. The top 5 States that contributed to the achievable benchmark are Alaska, Maine, New Hampshire, Rhode Island, and Vermont.
- At current rates of change, the benchmark would not be achieved overall or by any ethnic group for decades.

Suicide Prevention and Mental Health Care

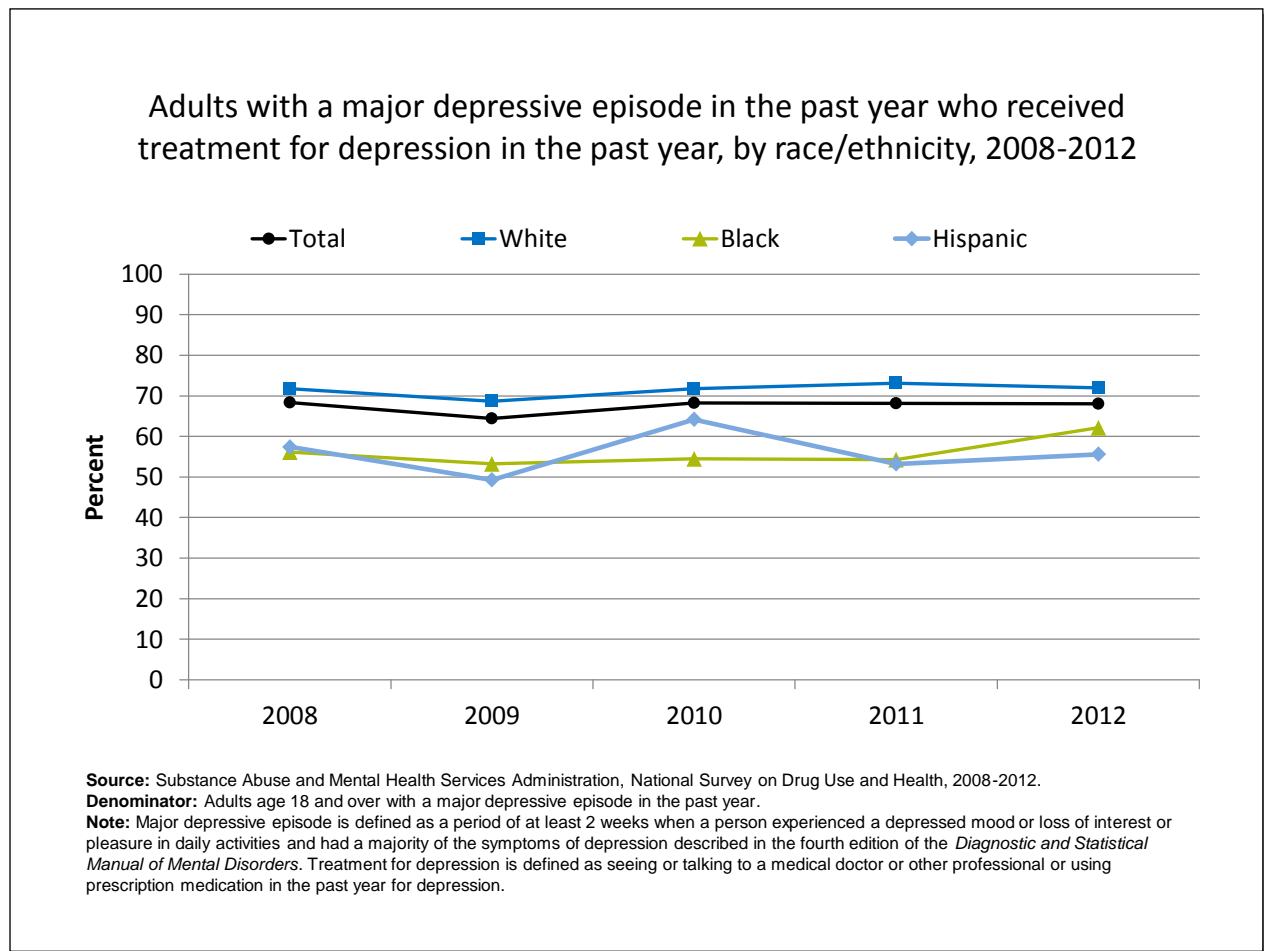
- Thirty years ago, the Heckler Report found that:
 - National data are not available for homicide deaths among Hispanic populations, but data from the five-State southwestern region, where more than 60% of Hispanics reside, show that from 1976 to 1980, the homicide rate was 21.6 per 100,000, more than 2.5 times the rate of the White population (7.7 per 100,000) in the same geographic area.

Mental Health Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
Adults who received mental health treatment or counseling in the last 12 months	Worse	No Change
Adults with a major depressive episode in the last 12 months who received treatment	Worse	No Change
Children ages 12-17 with a major depressive episode in the last 12 months who received treatment	Worse	No Change
Suicide deaths per 100,000 population	Better	Narrowing

- **Trends:** No measure of mental health care for Hispanics was improving; suicide deaths were increasing.
- **Groups With Disparities:**
 - Hispanic adults were less likely than White adults to receive mental health treatment or counseling and this disparity was not changing over time.
 - When experiencing a major depressive episode, Hispanic adults and adolescents were less likely than Whites to receive treatment. These disparities were not changing over time.
 - Hispanics had lower suicide death rates than Whites, but this disparity was narrowing as Hispanic suicide deaths increased.

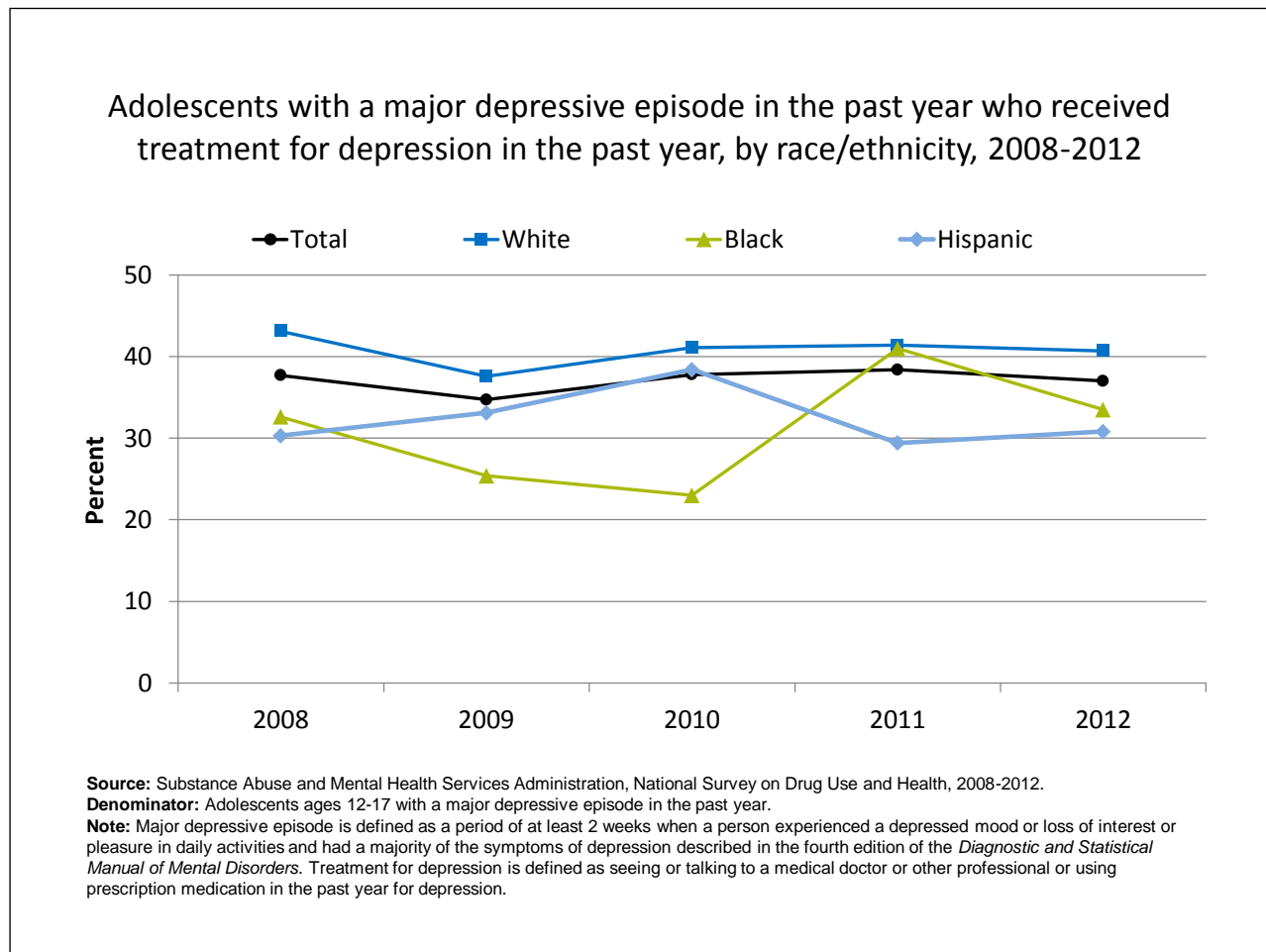
Treatment for Depression: Adults



- **Importance:** The United States Preventive Services Task Force (USPSTF) recommends screening adults for depression when staff-assisted depression care supports are in place to ensure accurate diagnosis, effective treatment, and followup (USPSTF, 2009ⁱ).
- **Overall Rate:** In 2012, 68% of adults with a major depressive episode received treatment for depression.
- **Groups With Disparities:**
 - In all years, Black adults with depression were less likely than White adults to receive treatment.
 - In every year except 2010, Hispanic adults with depression were less likely than White adults to receive treatment.

ⁱ Depression in adults: screening. Released December 2009. Current as of July 2015.
<http://www.uspreventiveservicestaskforce.org/Page/Document/UpdateSummaryFinal/depression-in-adults-screening?ds=1&s=depression>.

Treatment for Depression: Adolescents



- **Importance:**

- Outpatient mental health treatment and psychotropic medication use in children and adolescents increased in the United States between 1996-1998 and 2010-2012. Although youths with less severe or no impairment accounted for most of the absolute increase in service use, youths with more severe impairment had the greatest relative increase in use, yet less than half accessed services in 2010-2012 (Olfson, et al., 2015ⁱⁱ).
- The United States Preventive Services Task Force (USPSTF) recommends screening of adolescents ages 12-18 years for major depressive disorder when systems are in place to ensure accurate diagnosis, psychotherapy (cognitive-behavioral or interpersonal), and followup (USPSTF, 2009ⁱⁱⁱ).

ⁱⁱ Olfson M1, Druss BG, Marcus SC. Trends in mental health care among children and adolescents. *N Engl J Med*. 2015 May 21;372(21):2029-38.

ⁱⁱⁱ Depression in children and adolescents: screening. Released March 2009. Current as of July 2015.

<http://www.uspreventiveservicestaskforce.org/Page/Document/UpdateSummaryFinal/depression-in-children-and-adolescents-screening?ds=1&s=depression>.

- **Overall Rate:** In 2012, 37% of adolescents with a major depressive episode received treatment for depression.
- **Groups With Disparities:** In 2012, Hispanic adolescents with depression were less likely than White adolescents to receive treatment.

AHRQ Health Care Innovations in Mental Health Care

[University of Southern California](#)

- Population: Low-income Hispanic patients with diabetes
- Location: Los Angeles, California
- Intervention: Worked with two safety net clinics to offer a socioculturally tailored program to treat depression.
- Outcomes: Improved long-term adherence to antidepressant medication, reduced depression-related symptoms, and increased patient satisfaction with depression care.

Infant Mortality and Maternity Care

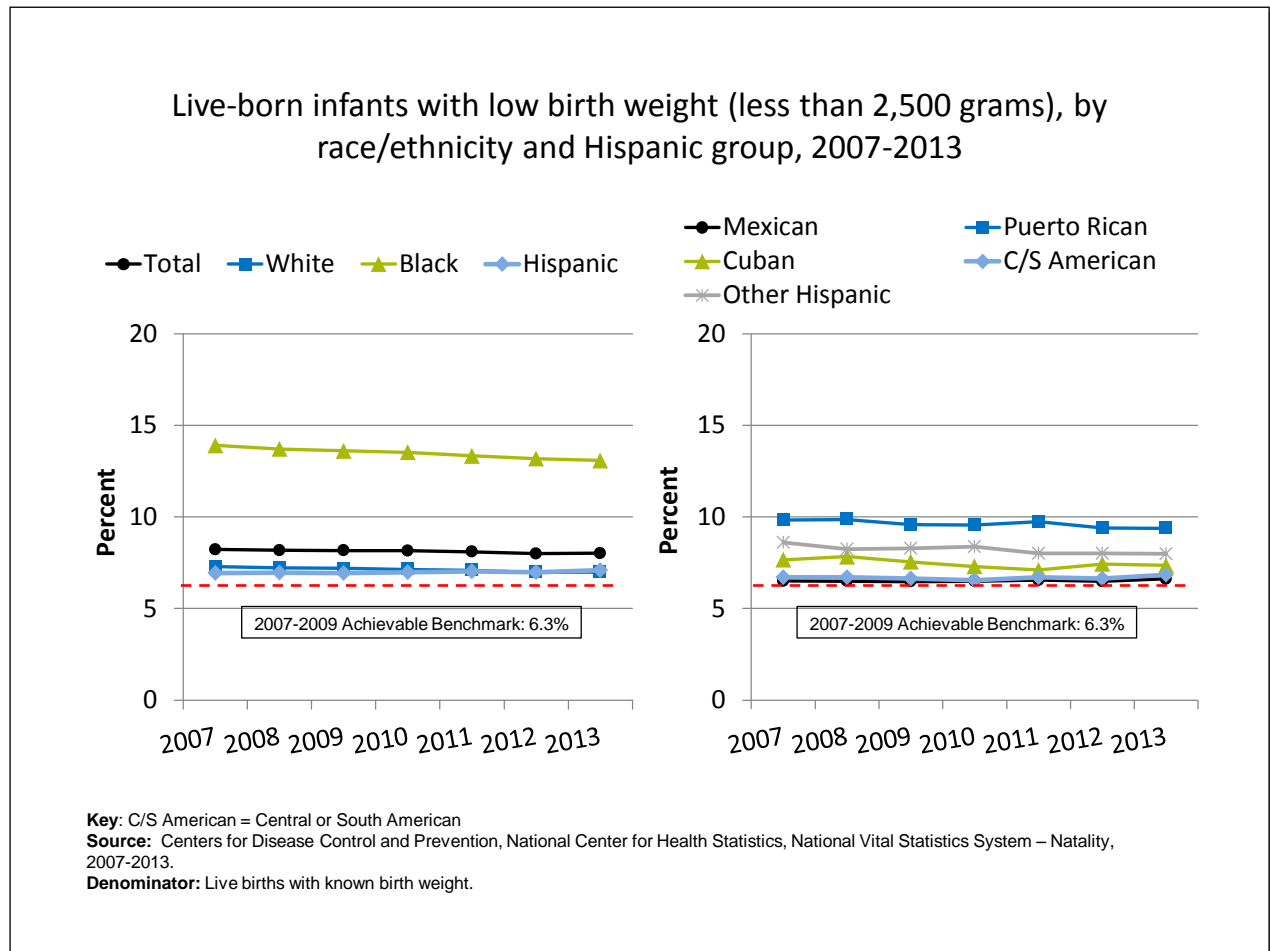
- Thirty years ago, the Heckler Report found that:
 - There is considerable variation within the Hispanic population, and while postneonatal mortality rates are elevated, the birth weight distributions are generally favorable.
 - Only 58% of Mexican American mothers begin prenatal care in the first trimester, less than for Blacks or Whites.
 - The birth weight and hence infant mortality rates of U.S.-born Puerto Ricans are less favorable than those for Mexican Americans.
 - Data on birth weight show a favorable distribution for Cubans.

Maternity Care for Hispanics

Measure	Most Recent Disparity	Disparity Change
Live-born infants with low birth weight (less than 2,500 grams)	Same	No Change
Live-born infants with very low birth weight (less than 1,500 grams)	Same	Growing
Infant mortality per 1,000 live births	Same	No Change
Maternal deaths per 100,000 live births	Same	Narrowing
Birth trauma - injury to newborn per 1,000 live births	Better	No Change
Obstetric trauma per 1,000 vaginal deliveries without instrument assistance	Better	No Change
Obstetric trauma per 1,000 instrument-assisted vaginal deliveries	Better	No Change

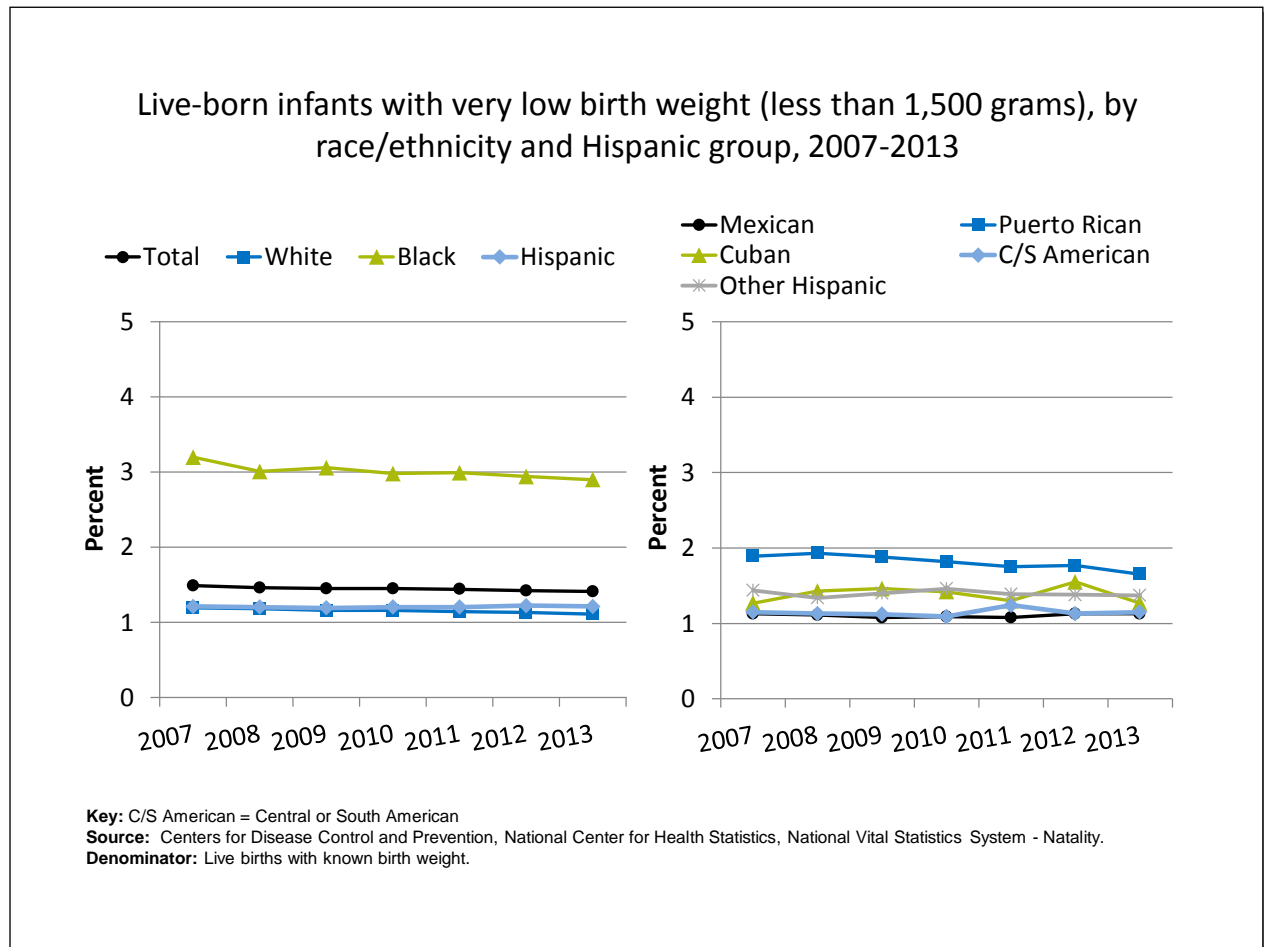
- **Trends:** Birth trauma and obstetric trauma were improving over time but other measures of maternity care were not changing.
- **Groups With Disparities:**
 - Hispanics had lower rates of birth trauma and obstetric trauma than Whites and these disparities were not changing over time.

Infants With Low Birth Weight



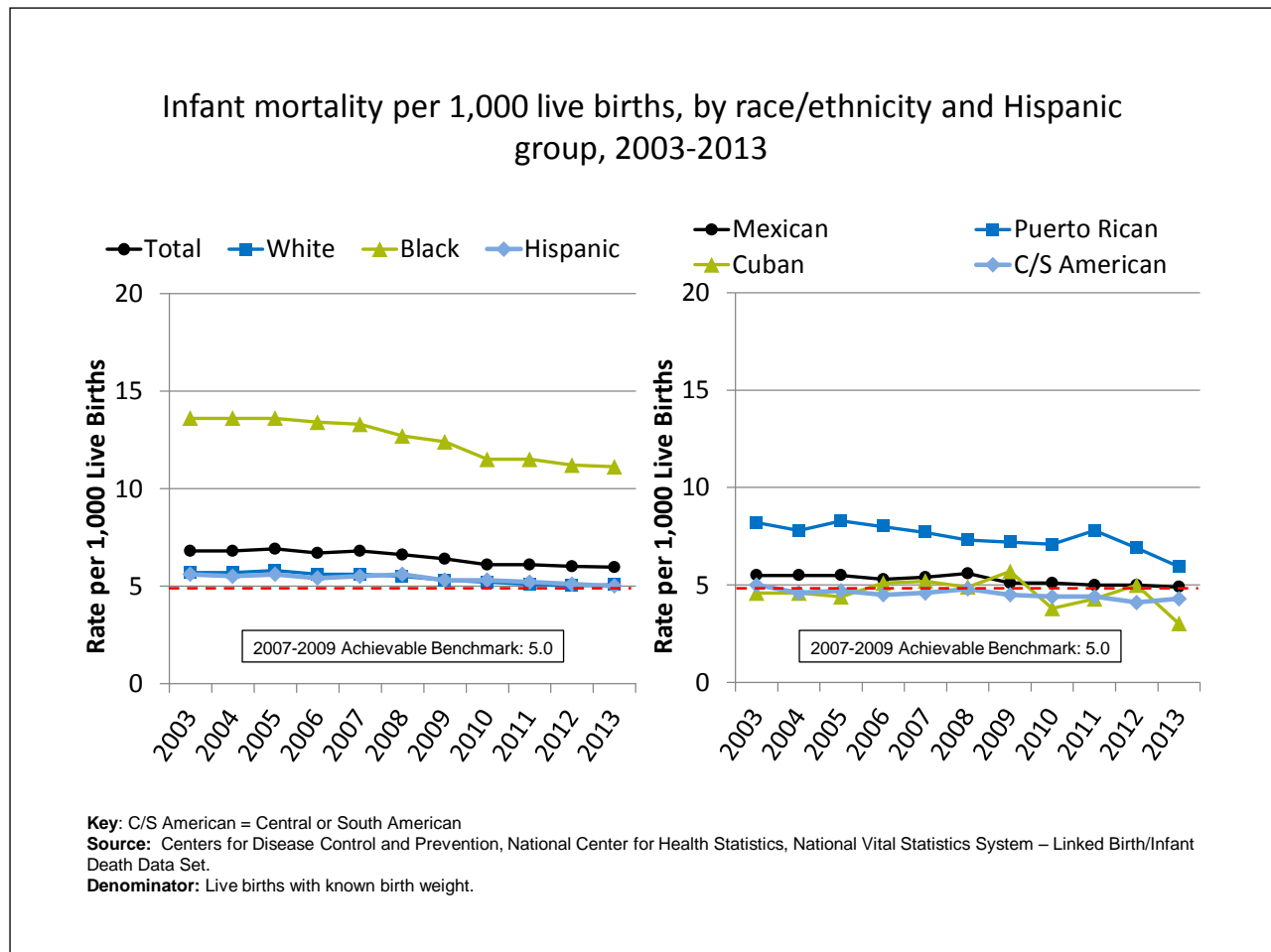
- **Importance:** Low birth weight can put infants at risk of various complications and death. Adequate prenatal care can help ensure that babies are born full term and at a healthy weight.
- **Trends:** From 2007 to 2013, the percentage of live-born infants with low birth weight improved among Blacks but did not change overall or for Whites or Hispanics.
- **Groups With Disparities:**
 - In all years, Black infants were more likely than White infants to be low birth weight.
 - In all years, Puerto Rican infants were more likely than White infants to be low birth weight.
- **Achievable Benchmark:**
 - The 2007-2009 top 5 State achievable benchmark was 6.3%. The top 5 States that contributed to the achievable benchmark are Alaska, Maine, Oregon, South Dakota, and Washington.
 - Except Black infants, no groups showed movement toward the benchmark.

Infants With Very Low Birth Weight



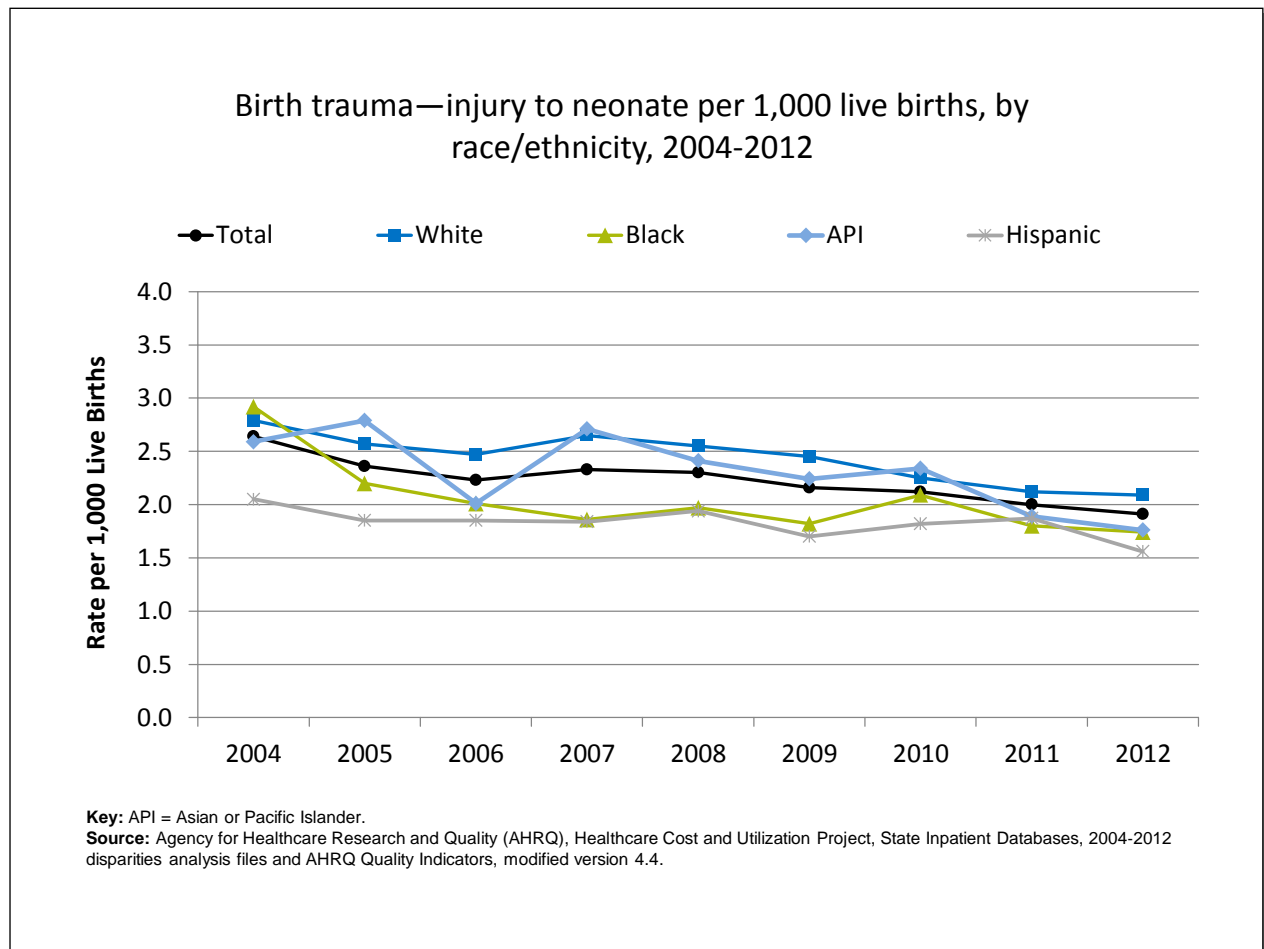
- **Trends:** From 2007 to 2013, the percentage of live-born infants with very low birth weight improved overall and among Whites and Blacks but did not change among Hispanics. This led to a widening of the Hispanic-White difference although it is still below our threshold for identifying statistically significant disparities.
- **Groups With Disparities:**
 - In all years, Black infants were more likely than White infants to have very low birth weight.
 - In all years, Puerto Rican infants were more likely than White infants to have very low birth weight.

Infant Mortality



- **Trends:** From 2003 to 2013, the rate of infant mortality among live births improved overall and among Whites and Blacks but changes among Hispanics were not statistically significant.
- **Groups With Disparities:**
 - In all years, mortality was higher among Black infants than White infants.
 - In all years, mortality was higher among Puerto Rican infants than White infants.
- **Achievable Benchmark:**
 - The 2007-2009 top 5 State achievable benchmark was 5 per 1,000 live births. The top 5 States that contributed to the achievable benchmark are California, Massachusetts, New Hampshire, Utah, and Washington.
 - Hispanics, including Mexicans, Cubans, and Central and South Americans, have achieved the benchmark. Whites and Puerto Ricans are close to the benchmark. Blacks are farthest from the benchmark.

Birth Trauma



• **Trends:**

- Birth trauma-neonatal injury rates fell from 2.6 per 1,000 live births in 2004 to 1.9 per 1,000 live births in 2012.
- Between 2004 and 2012, birth trauma-neonatal injury rates fell for all racial/ethnic groups.

• **Groups With Disparities:**

- In 2012, White neonates experienced an injury rate of 2.1 per 1,000 live births compared with 1.6 per 1,000 live births for Hispanic neonates.
- There were no other statistically significant differences between groups.

PART 3: TRENDS IN ACCESS AND PRIORITIES OF THE NATIONAL QUALITY STRATEGY

2014 QDR Chartbooks

- 2014 QDR supported by a series of related chartbooks that:
 - Present information on individual measures
 - Are updated annually
 - Are posted on the Web (<http://www.ahrq.gov/research/findings/nhqdr/2014chartbooks/>)
- Order and topics of chartbooks:
 - Access to care
 - Priorities of the National Quality Strategy
 - Access and quality of care for priority populations

Six Chartbooks Organized Around Priorities of the National Quality Strategy

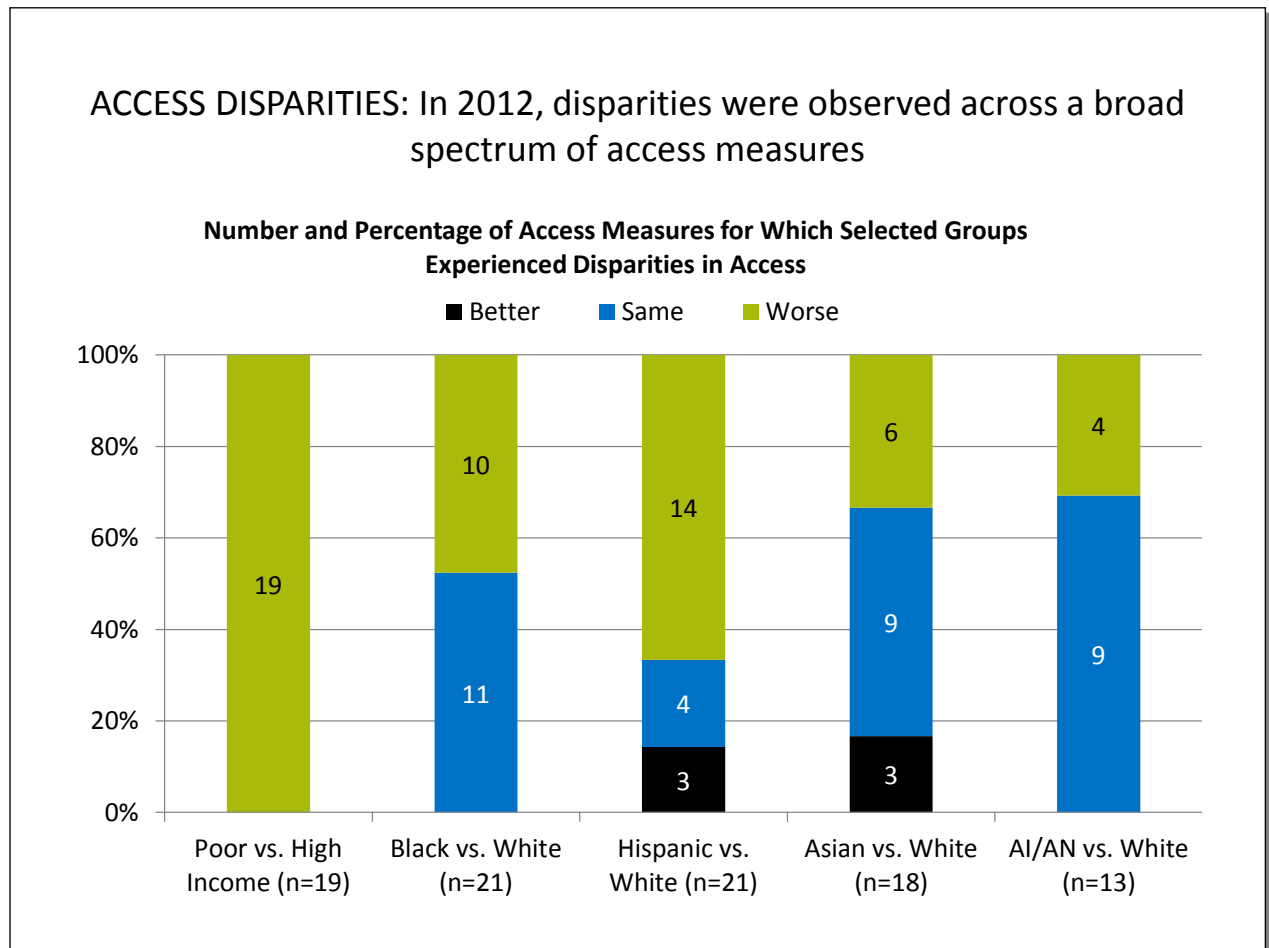
1. Making care safer by reducing harm caused in the delivery of care.
2. Ensuring that each person and family is engaged as partners in their care.
3. Promoting effective communication and coordination of care.
4. Promoting the most effective prevention and treatment practices for the leading causes of mortality, starting with cardiovascular disease.
5. Working with communities to promote wide use of best practices to enable healthy living.
6. Making quality care more affordable for individuals, families, employers, and governments by developing and spreading new health care delivery models.

Other Chartbooks Organized Around AHRQ's Priority Populations

- AHRQ's priority populations, specified in the Healthcare Research and Quality Act of 1999 (Public Law 106-129):
 - Racial and ethnic minority groups
 - Low-income groups
 - Women
 - Children (under age 18)
 - Older adults (age 65 and over)
 - Residents of rural areas
 - Individuals with special health care needs, including:
 - ◆ Individuals with disabilities
 - ◆ Individuals who need chronic care or end-of-life care

Access to Health Care

Access Disparities



Key: AI/AN = American Indian or Alaska Native; n = number of measures.

Note: Poor indicates family income less than the Federal poverty level; High Income indicates family income four times the Federal poverty level or greater. Numbers of measures differ across groups because of sample size limitations. Measures that achieve an overall performance level of 95% or better are not reported in the QDR and are not included in these analyses. Because disparities are typically eliminated when overall performance reaches 95%, our analyses may overstate the percentage of measures exhibiting disparities.

The relative difference between a selected group and its reference group is used to assess disparities.

- **Better** = Population had better access to care than reference group. Differences are statistically significant, are equal to or larger than 10%, and favor the selected group.
- **Same** = Population and reference group had about the same access to care. Differences are not statistically significant or are smaller than 10%.
- **Worse** = Population had worse access to care than reference group. Differences are statistically significant, are equal to or larger than 10%, and favor the reference group.

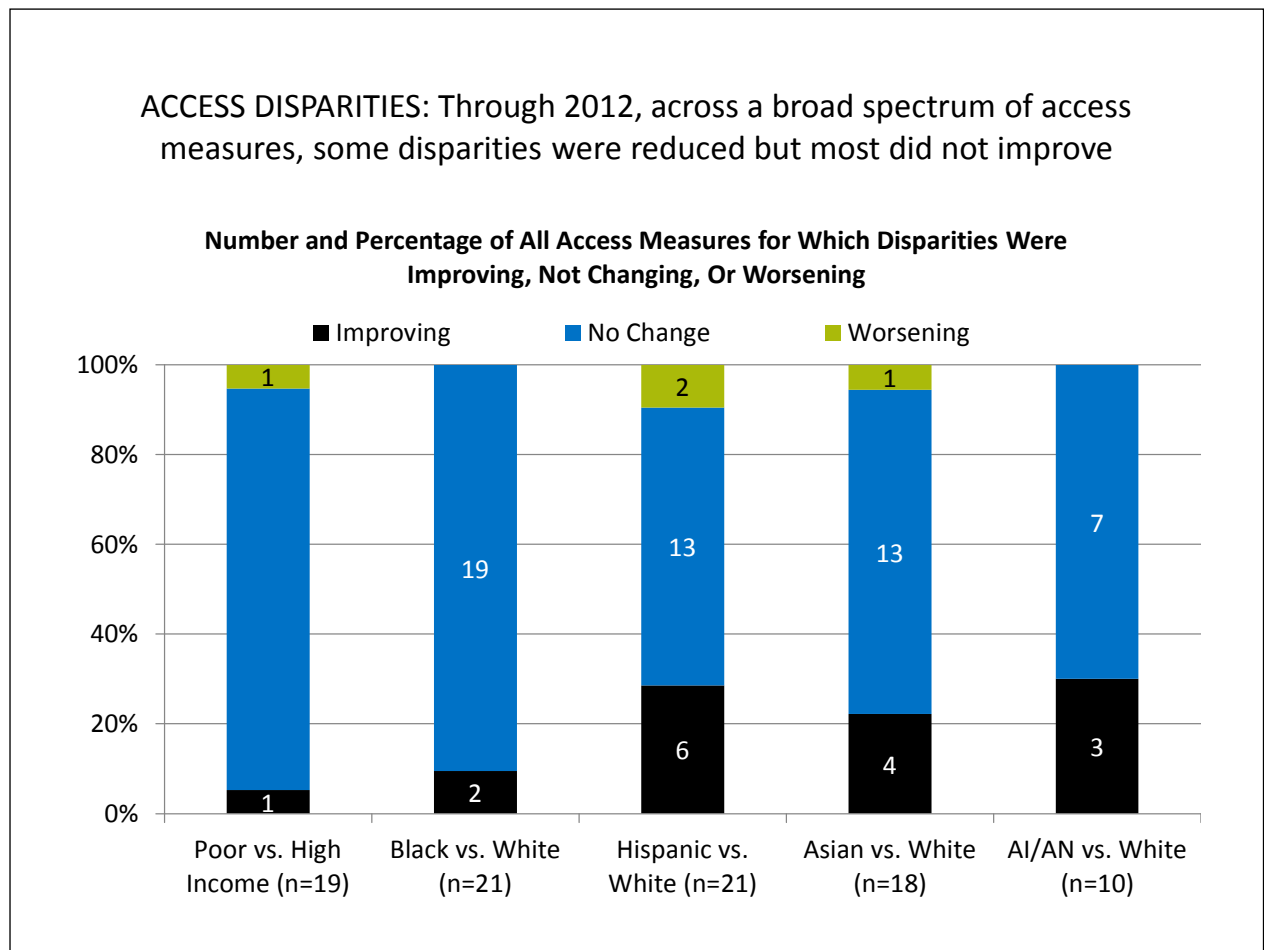
Example: Compared with Whites, Hispanics had worse access to care on 14 of the 21 access measures, similar access on 4 measures, and better access on 3 measures.

- **Groups With Disparities:**

- People in poor households experienced the largest number of disparities, followed by Hispanics and Blacks.

- In 2012, people in poor households had worse access to care than people in high-income households on all access measures (green).
- Blacks had worse access to care than Whites for about half of access measures.
- Hispanics had worse access to care than Whites for two-thirds of access measures.
- Asians and American Indians and Alaska Natives had worse access to care than Whites for about one-third of access measures.

Trends in Access Disparities



Key: AI/AN = American Indian or Alaska Native; n = number of measures.

Note: Poor indicates family income less than the Federal poverty level; High Income indicates family income four times the Federal poverty level or greater. Numbers of measures differ across groups because of sample size limitations. For the vast majority of measures, trend data are available from 2001-2002 to 2012.

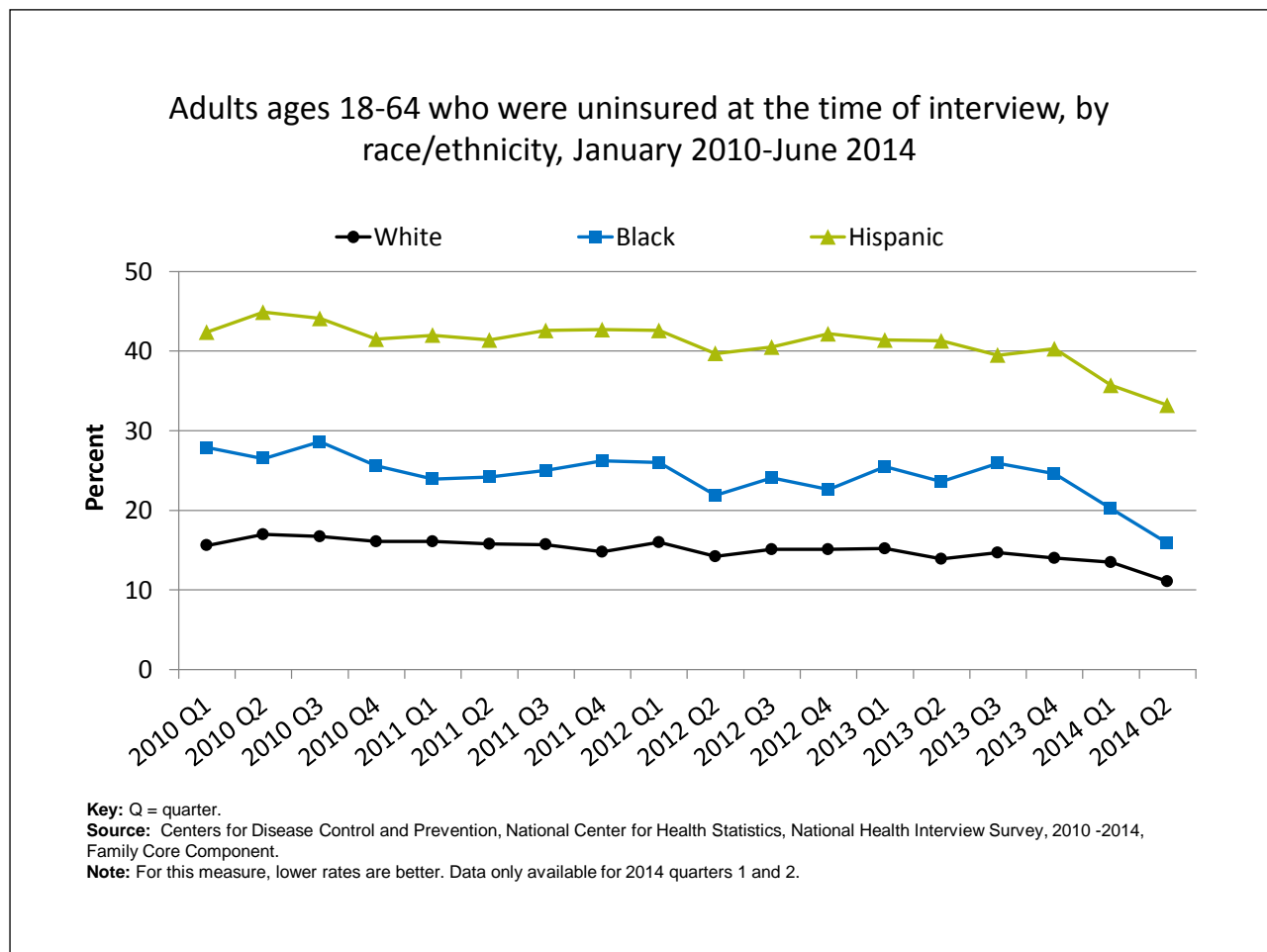
For each measure, average annual percentage changes were calculated for select populations and reference groups. Measures are aligned so that positive rates indicate improvement in access to care. Differences in rates between groups were used to assess trends in disparities.

- **Worsening** = Disparities are getting larger. Differences in rates between groups are statistically significant and reference group rates exceed population rates by at least 1% per year.
- **No Change** = Disparities are not changing. Differences in rates between groups are not statistically significant or differ by less than 1% per year.
- **Improving** = Disparities are getting smaller. Differences in rates between groups are statistically significant and population rates exceed reference group rates by at least 1% per year.

• **Disparity Trends:**

- Through 2012, most disparities in access to care related to race, ethnicity, or income showed no significant change (blue), neither getting smaller nor larger.
- In four of the five comparisons shown above, the number of disparities that were improving (black) exceeded the number of disparities that were getting worse (green).

Uninsurance

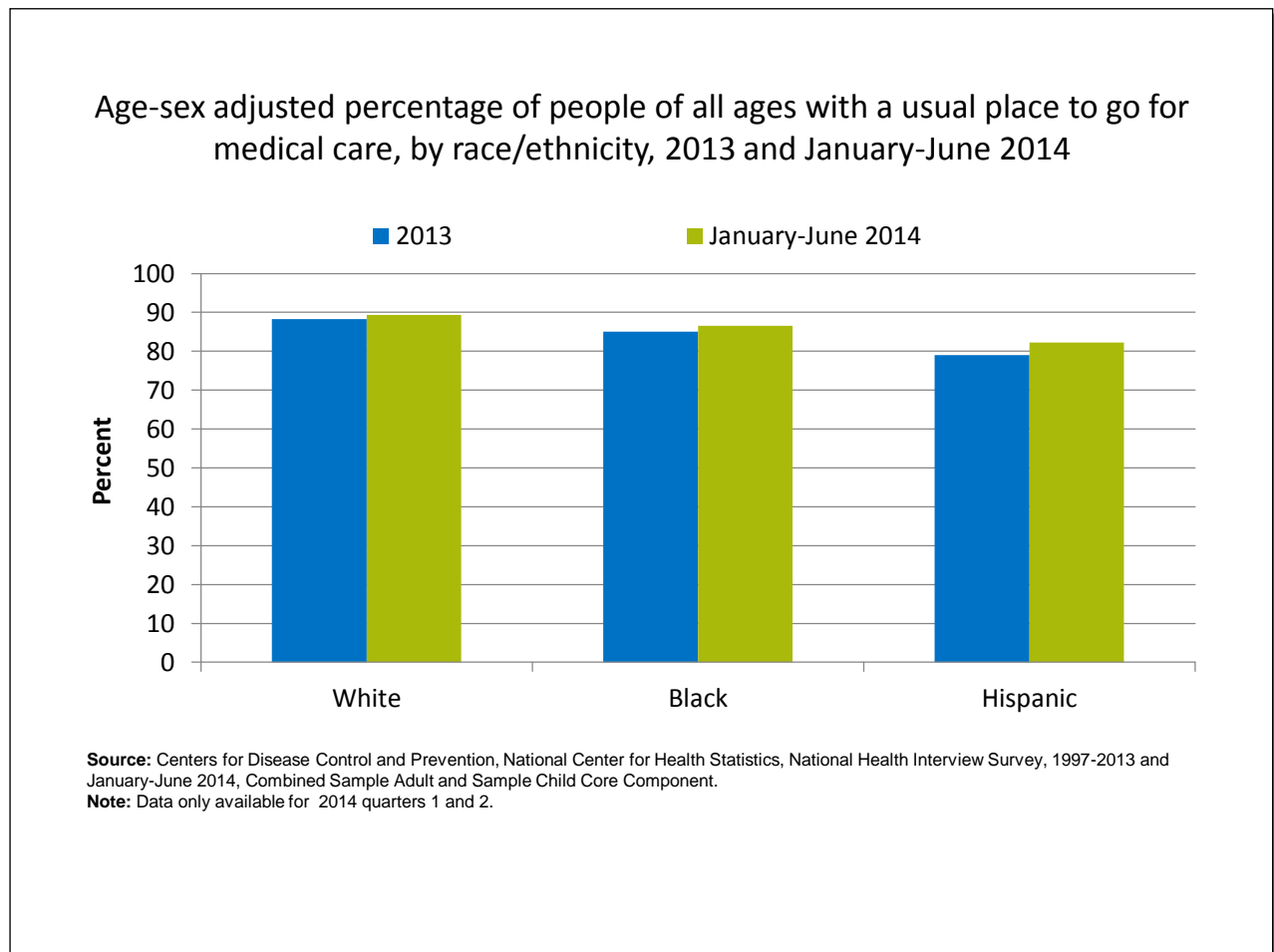


• **Trends:** All ethnic groups displayed a decrease from 2013 Q4 to 2014 Q2:

- White: 14.0% to 11.1%
- Black: 24.6% to 15.9%
- Hispanic: 40.3% to 33.2%

• **Groups With Disparities:** Hispanic adults ages 18-64 were significantly more likely than Whites to be uninsured from January 2010 to June 2014. The percentage peaked in the second quarter of 2010 at 44.9%, then significantly decreased to 33.2% for the second quarter of 2014.

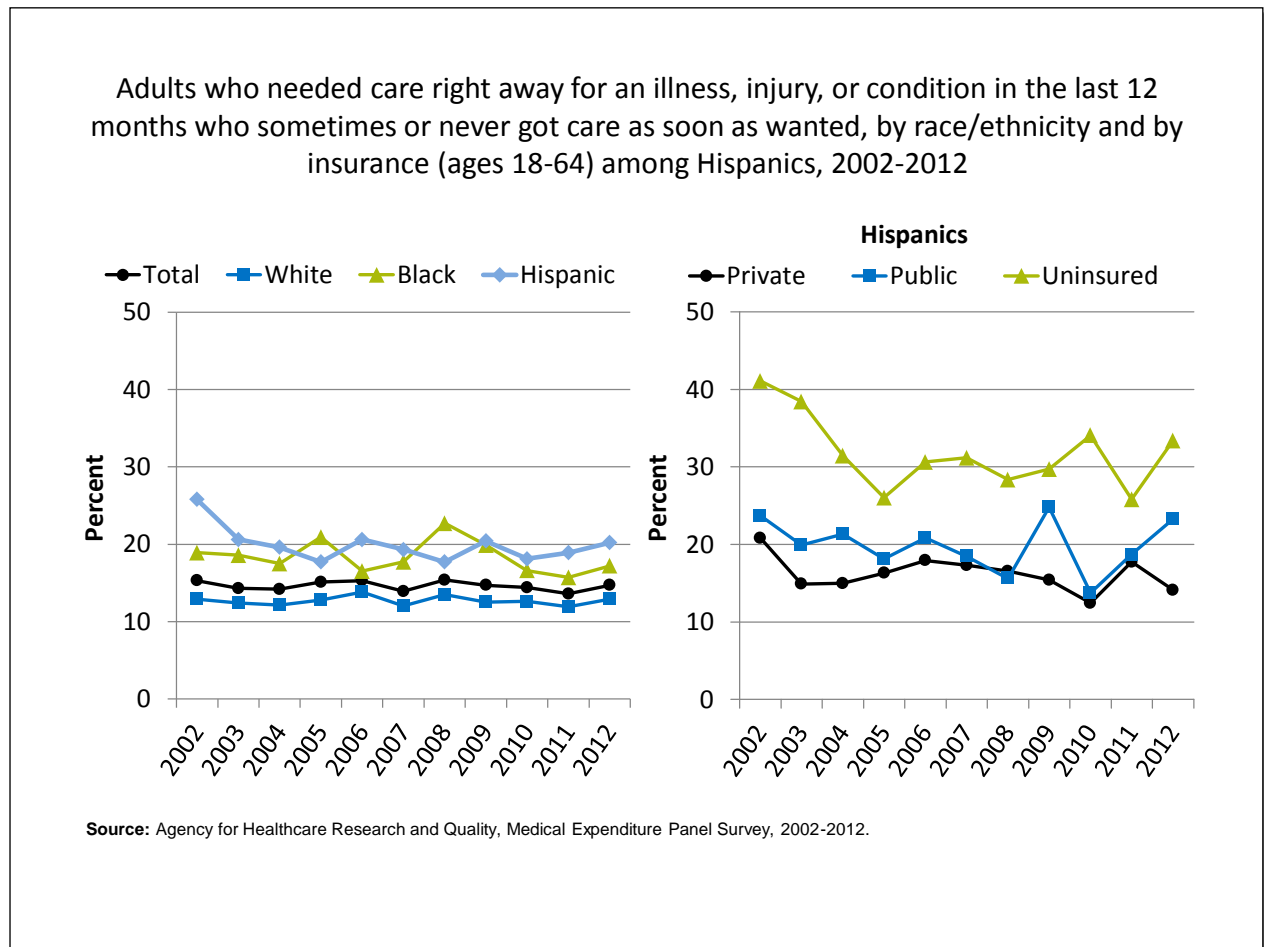
Usual Source of Care



- **Groups With Disparities:**

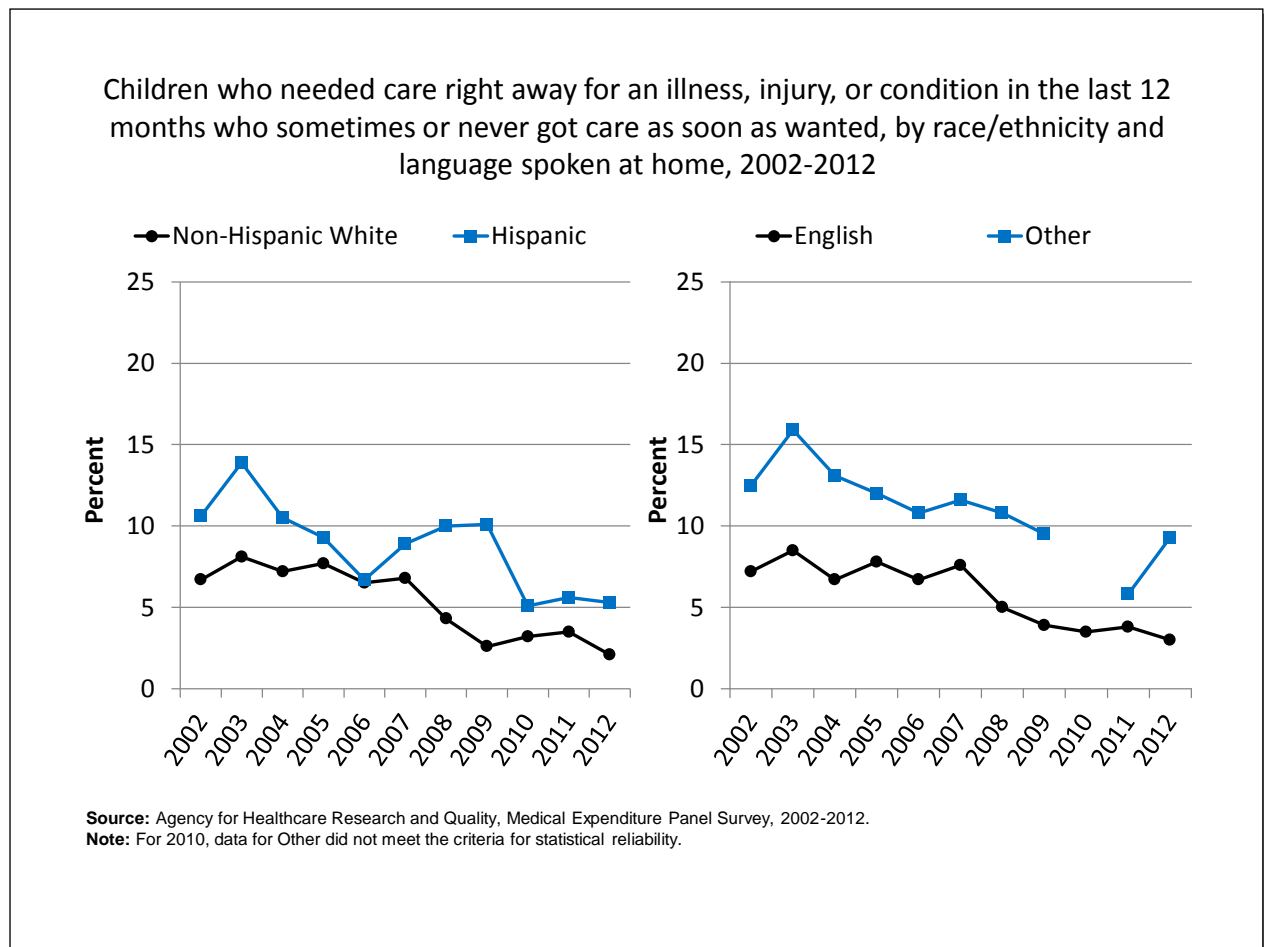
- From January to June 2014, after adjustment for age and sex, the percentage of people with a usual place to go for medical care was 82.2% for Hispanics, 89.3% for Whites, and 86.5% for Blacks.
- In both years, Hispanics were less likely to have a usual place to go for medical care compared with Blacks and Whites.

Difficulty Getting Care When Wanted: Adults



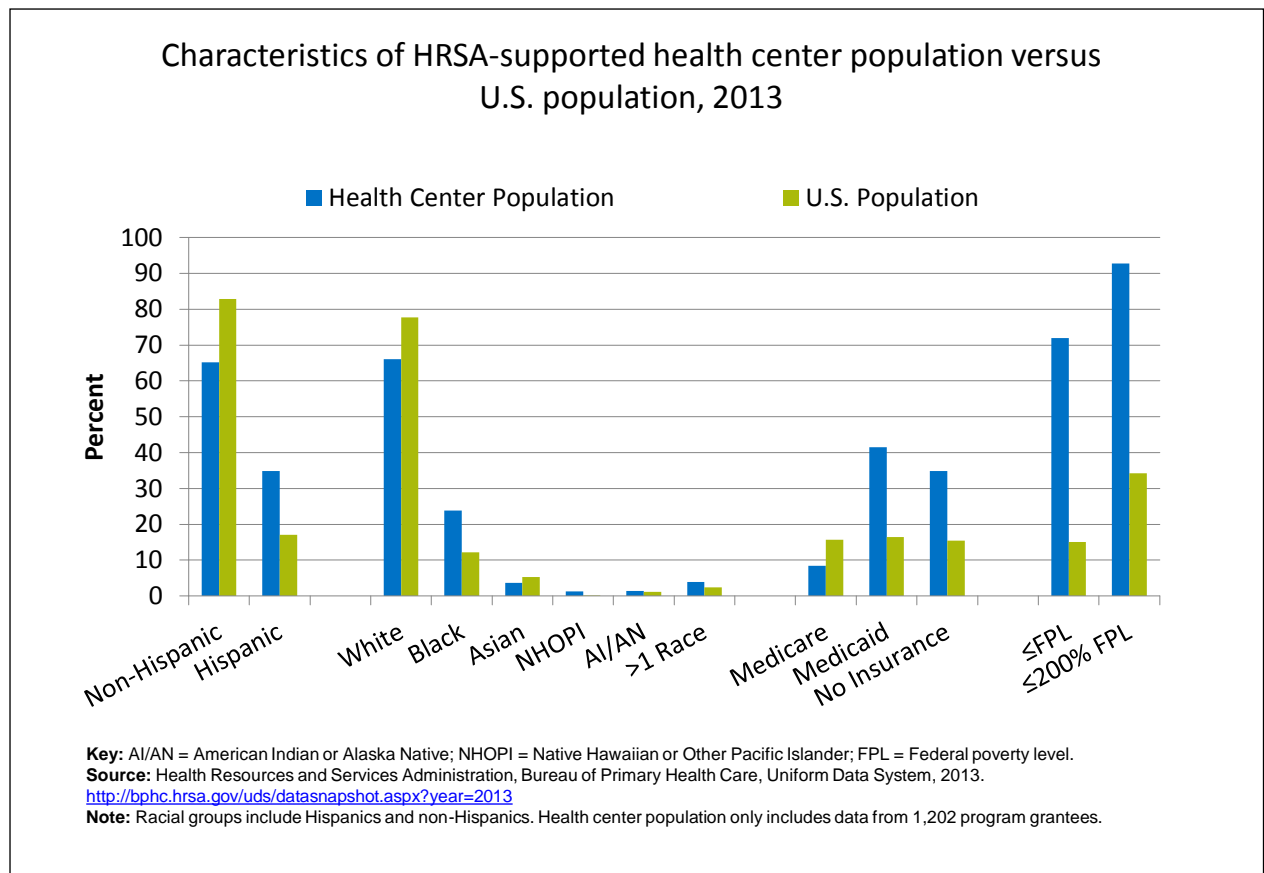
- **Trends:** From 2002 to 2012, the percentage of adults who needed care right away who sometimes or never got care as soon as wanted did not change overall or for any ethnic group.
- **Groups With Disparities:**
 - From 2010 to 2012, Hispanics were less likely than Whites to receive care as soon as wanted.
 - In all years, uninsured Hispanic adults were less likely than privately insured Hispanic adults to receive needed care right away for an illness, injury, or condition in the last 12 months.

Difficulty Getting Care When Wanted: Children



- **Trends:** From 2007 to 2012, Hispanic children were less likely than non-Hispanic White children to get care as soon as wanted.
- **Groups With Disparities:**
 - In 2012, the percentage of children who needed care right away who sometimes or never got care as soon as wanted was 9.3% for those who spoke a language other than English and 3.0% for those who spoke English.
 - In all years, English-speaking children were less likely than children speaking other languages to have problems receiving care as soon as wanted.

HRSA-Supported Health Center Population



- **Groups With Disparities:**

- In 2013, 71.9% of the health center population was at or below the Federal poverty level compared with 15% of the U.S. population. The health center population also had higher percentages of uninsurance (34.9%) and Medicaid enrollment (41.5%) than the U.S. population (15.4% and 16.4%, respectively).
- In 2013, slightly more than one-third (34.8%) of the health center population was Hispanic, which was twice as much as the percentage in the U.S. population (17.1%). The percentage of Blacks at the health centers was nearly one-quarter (23.8%), nearly twice as much as the percentage in the U.S. population (12.2%).

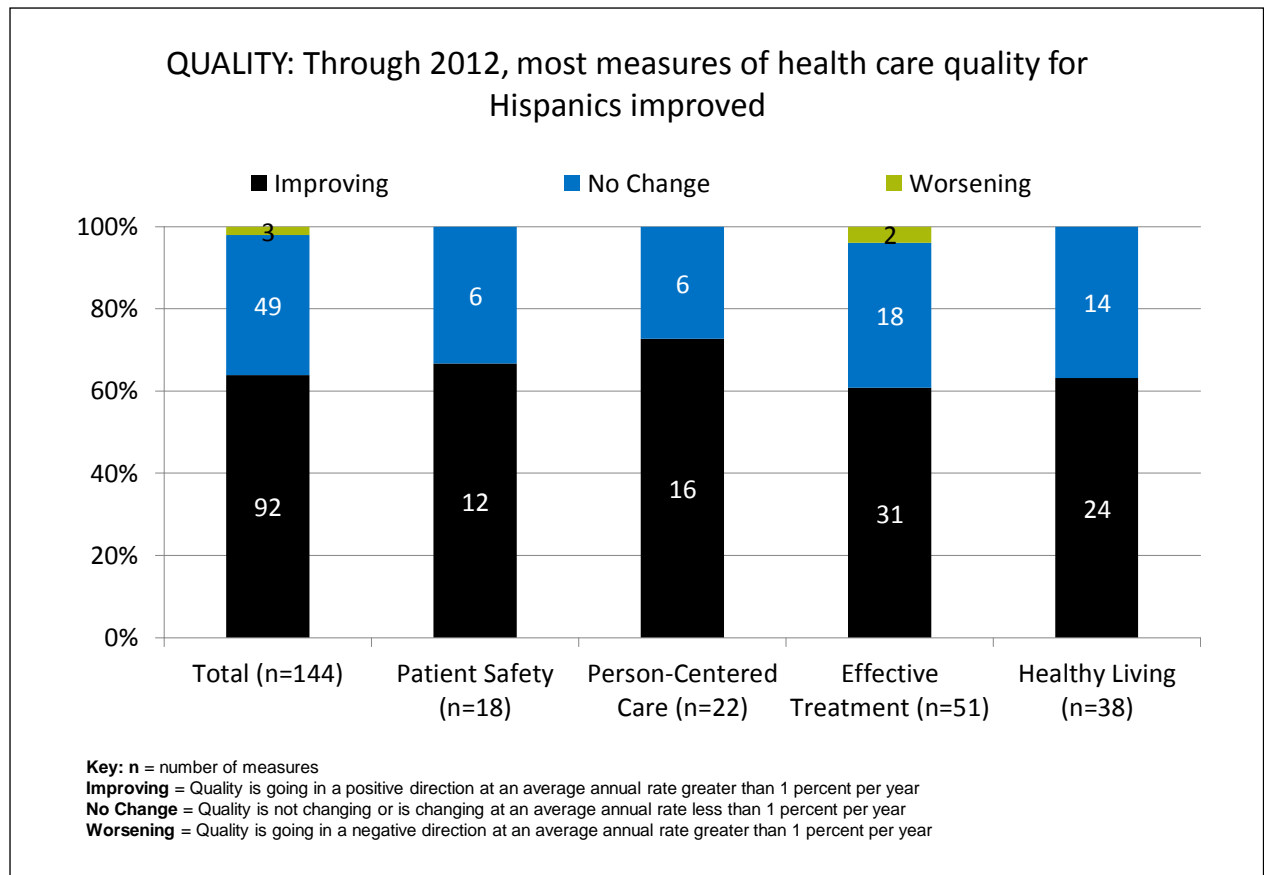
AHRQ Health Care Innovations in Access to Health Care

Salud Mobile Outreach Program

- **Location:** Primarily in rural areas of northern Colorado
- **Population:** Mexican immigrants, many of whom are poor, uninsured, and monolingual with limited education
- **Intervention:** Reduce health disparities by providing medical and dental care, referrals, and patient education.
- **Outcomes:** Enhanced access to needed medical care and education in a population who had no other way to access such services.

National Quality Strategy Priorities

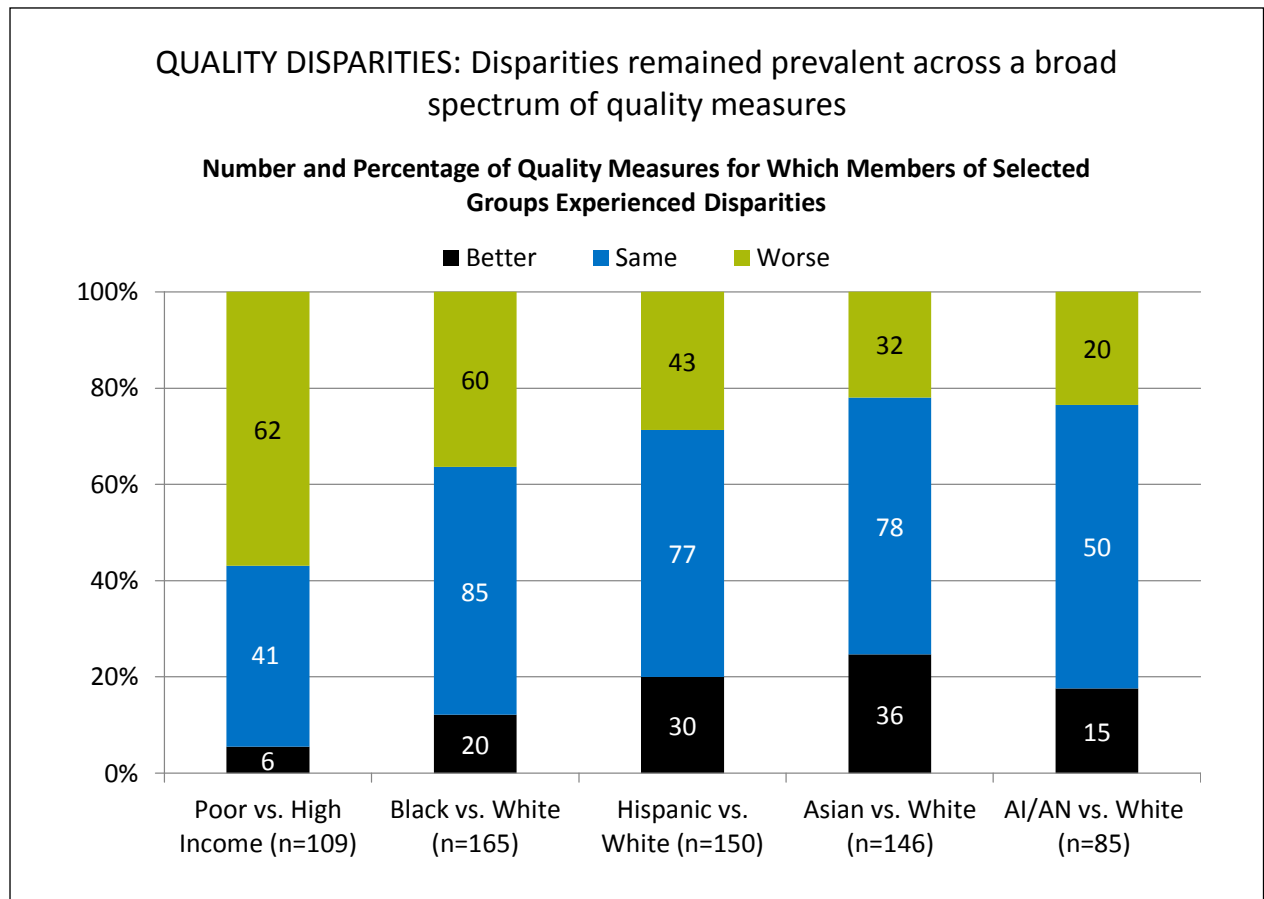
Trends in Quality



- Quality of care for Hispanics:
 - Improved for 64% (92 out of 144) of the measures,
 - Worsened for 2% (3 out of 144) of the measures, and
 - Did not change for 34% (49 out of 144) of the measures.

- Among the NQS priorities, quality of care for Hispanics:
 - Improved for 67% (12 of 18) of Patient Safety measures and did not change for 33% (6 of 18).
 - Improve for 73% (16 of 22) of Person-Centered Care measures and did not change for 27% (6 of 22).
 - Improved for 61% (31 of 51) of Effective Treatment measures, worsened for 4% (2 of 51), and did not change for 35% (18 of 51).
 - Improved for 63% (24 of 38) of Healthy Living measures and did not change for 37% (14 of 38).
 - There are insufficient numbers of reliable measures of Care Coordination and Care Affordability to summarize in this way.

Trends in Quality Disparities



Key: AI/AN = American Indian or Alaska Native; n = number of measures.

Note: Poor indicates family income less than the Federal poverty level; High Income indicates family income four times the Federal poverty level or greater. Numbers of measures differ across groups because of sample size limitations. For most measures, data from 2012 are shown. Measures that achieve an overall performance level of 95% or better are not reported in the QDR and are not included in these analyses. Because disparities are typically eliminated when overall performance reaches 95%, our analyses may overstate the percentage of measures exhibiting disparities.

The relative difference between a selected group and its reference group is used to assess disparities.

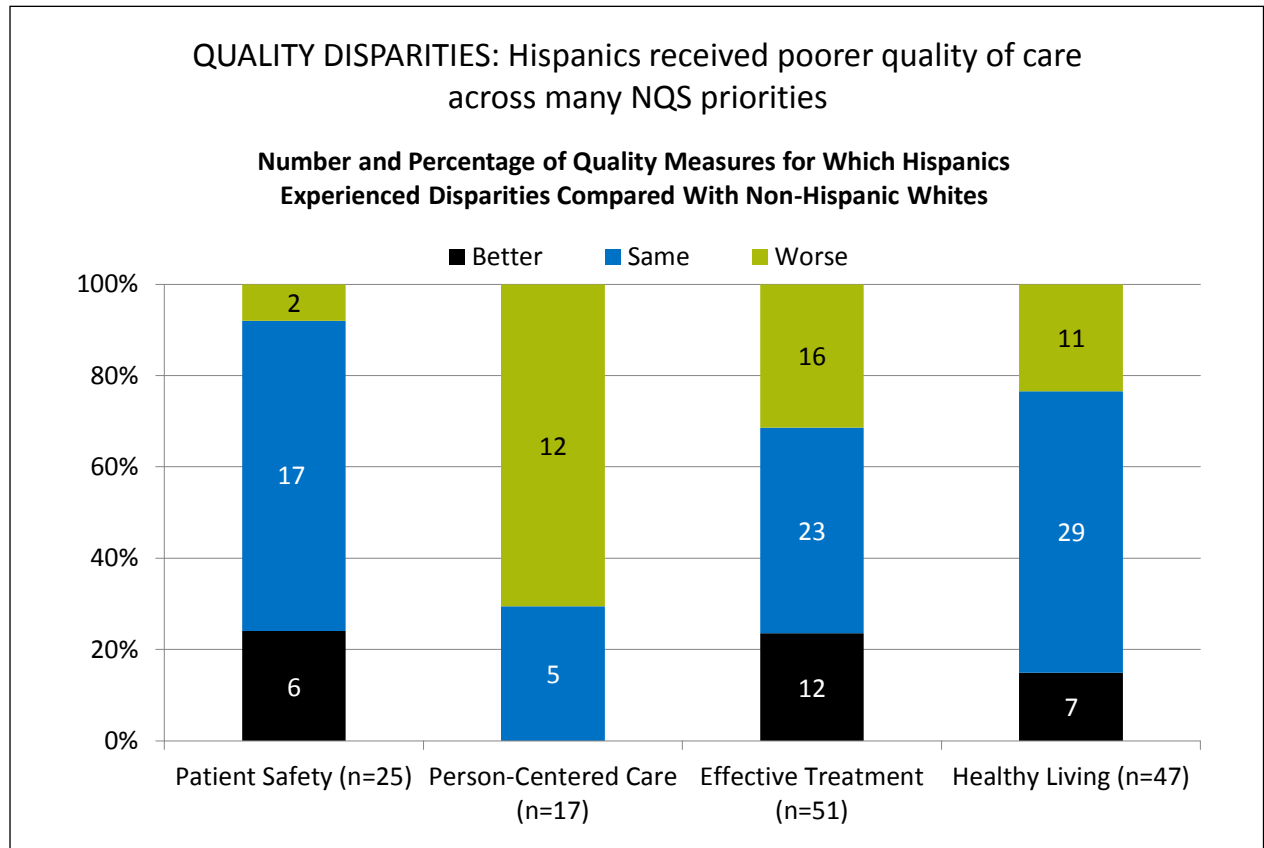
- **Better** = Population received better quality of care than reference group. Differences are statistically significant, are equal to or larger than 10%, and favor the selected group.
- **Same** = Population and reference group received about the same quality of care. Differences are not statistically significant or are smaller than 10%.
- **Worse** = Population received worse quality of care than reference group. Differences are statistically significant, are equal to or larger than 10%, and favor the reference group.

- **Groups With Disparities:**

- People in poor households experienced the largest number of disparities, followed by Blacks and Hispanics.
- People in poor households received worse care than people in high-income households on more than half of quality measures (green).
- Blacks received worse care than Whites for about one-third of quality measures.

- Hispanics, American Indians and Alaska Natives, and Asians received worse care than Whites for some quality measures and better care for some measures.
- For each group, disparities in quality of care are similar to disparities in access to care, although access problems are more common than quality problems.

Quality Disparities Among Hispanics



Key: n = number of measures.

Note: For most measures, data from 2012 are shown. Measures that achieve an overall performance level of 95% or better are not reported in the QDR and are not included in these analyses. Because disparities are typically eliminated when overall performance reaches 95%, our analyses may overstate the percentage of measures exhibiting disparities.

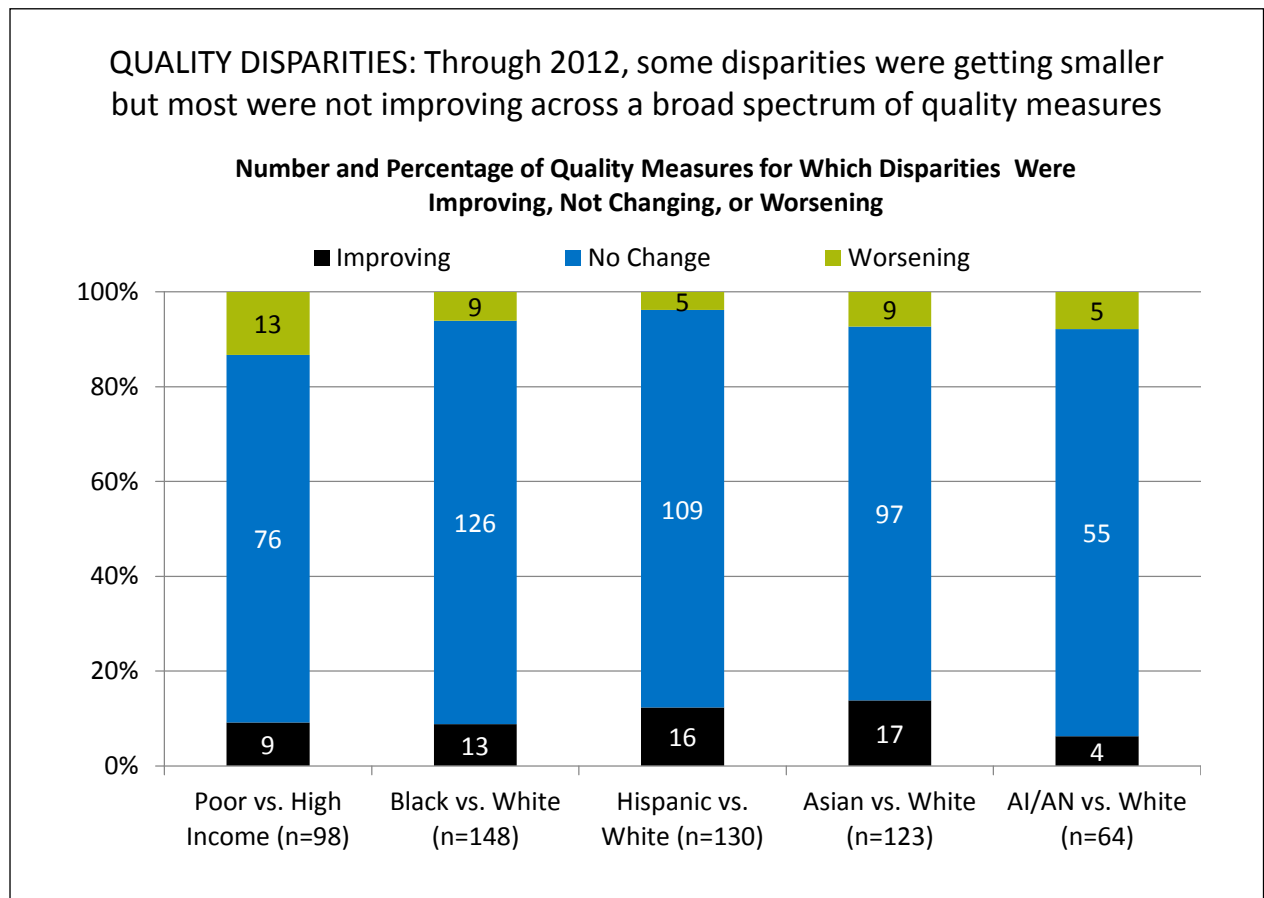
The relative difference between a selected group and its reference group is used to assess disparities.

- **Better** = Population received better quality of care than reference group. Differences are statistically significant, are equal to or larger than 10%, and favor the selected group.
- **Same** = Population and reference group received about the same quality of care. Differences are not statistically significant or are smaller than 10%.
- **Worse** = Population received worse quality of care than reference group. Differences are statistically significant, equal to or larger than 10%, and favor the reference group.

• **Groups With Disparities:**

- Hispanics received worse care for 70% of Person-Centered Care measures.
- Hispanics received worse care for about 30% of measures of Effective Treatment and Healthy Living.
- Hispanics received worse care for 8% of Patient Safety measures.

Change in Quality Disparities



Key: AI/AN = American Indian or Alaska Native; n = number of measures.

Note: Poor indicates family income less than the Federal poverty level; High Income indicates family income four times the Federal poverty level or greater. Numbers of measures differ across groups because of sample size limitations. For the majority of measures, trend data are available from 2001-2002 to 2012.

For each measure, average annual percentage changes were calculated for select populations and reference groups. Measures are aligned so that positive rates indicate improvement in access to care.

Differences in rates between groups were used to assess trends in disparities.

- **Worsening** = Disparities are getting larger. Differences in rates between groups are statistically significant and reference group rates exceed population rates by at least 1% per year.
- **No Change** = Disparities are not changing. Differences in rates between groups are not statistically significant or differ by less than 1% per year.
- **Improving** = Disparities are getting smaller. Differences in rates between groups are statistically significant and population rates exceed reference group rates by at least 1% per year.

- **Disparity Trends:**

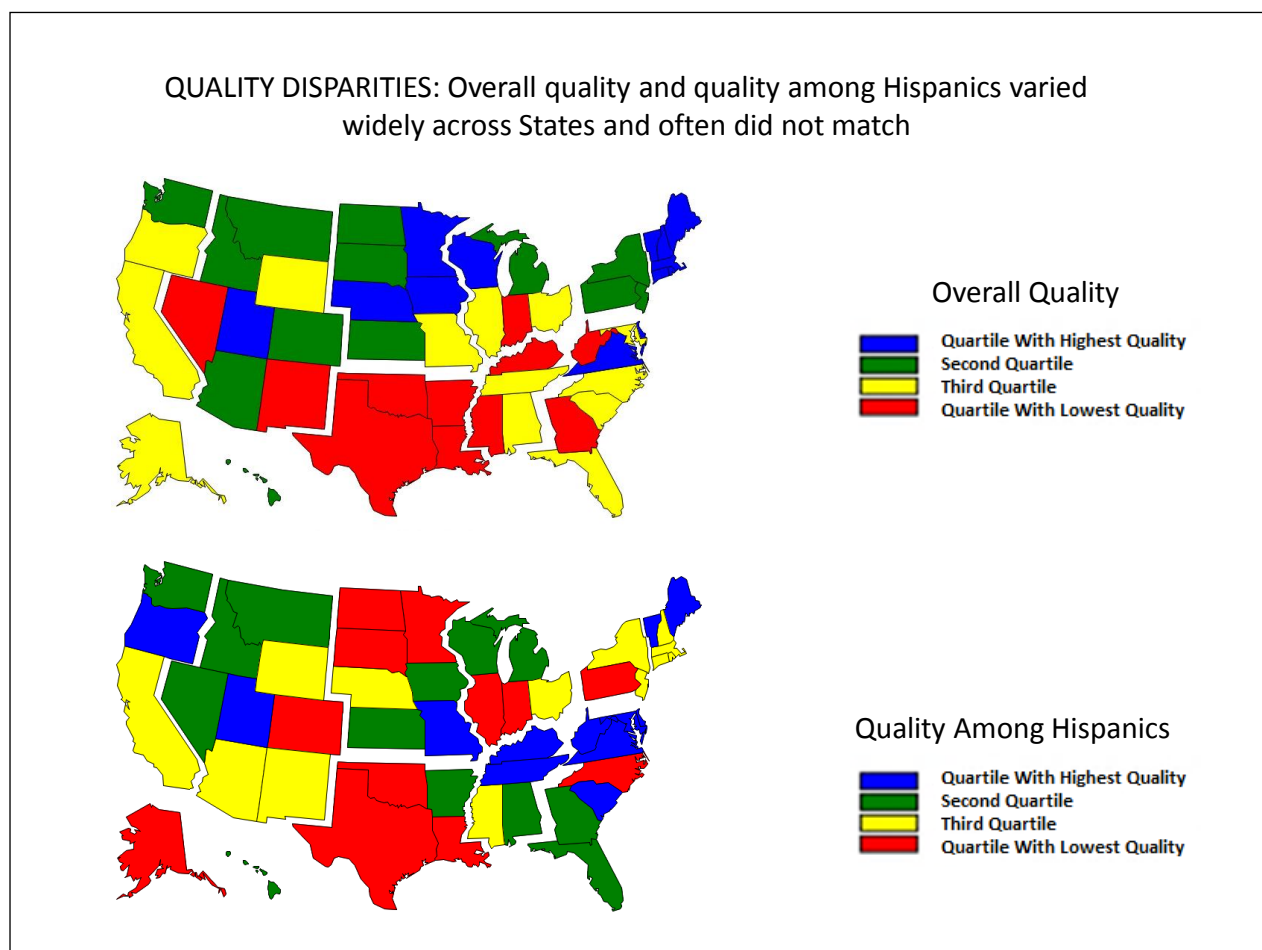
- Through 2012, most disparities in quality of care related to race, ethnicity, or income showed no significant change (blue), neither getting smaller nor larger.
- When changes in disparities occurred, measures of disparities were more likely to show improvement (black) than decline (green). However, for people in poor households, more measures showed worsening disparities than improvement.

Elimination or Widening of Quality Disparities

Several quality measures showed elimination or widening of Hispanic-White disparities:

- One quality measure showed elimination of a Hispanic-White disparity:
 - Adults with obesity who ever received advice from a health professional about eating fewer high-fat foods
- Two quality measures showed widening of Hispanic-White disparities:
 - Hospice patients who received care consistent with their stated end-of-life wishes
 - Hospice patients who received the right amount of medicine for pain management

State Variation in Quality



Source: Agency for Healthcare Research and Quality, 2014 State Snapshots.

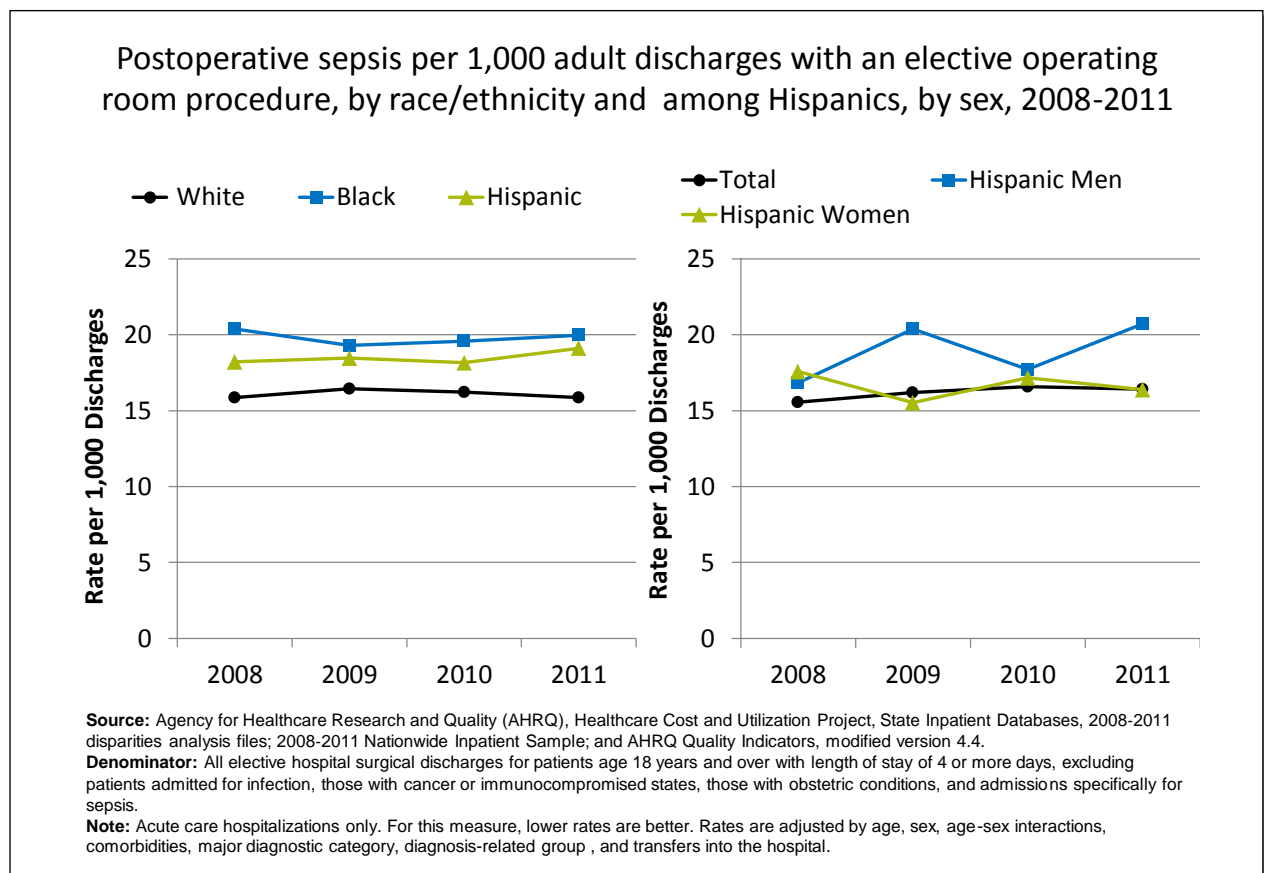
Note: An overall quality score is computed for each State based on the number of quality measures that are above, at, or below the average across all States; States are ranked and quartiles are shown in the top map. A quality score for Hispanics is computed in a similar manner but only using data for Hispanics. See State Snapshots at <http://nhqrnet.ahrq.gov/inhqrdr/state/select> for more detailed methods.

• **Geographic Disparities:**

- There was significant variation in overall quality among States. States in the New England, Middle Atlantic, West North Central, and Mountain census divisions tended to have higher overall quality (blue and green) while States in the South census region tended to have lower quality (yellow and red).
- There was also significant variation among States in quality for Hispanics. Hispanics tended to receive higher quality care in States in the South Atlantic and East South Central census divisions (blue and green) and lower quality care in States in the New England, Middle Atlantic, and West South Central census divisions (yellow and red).
- The variation in State performance on overall quality and among specific priority populations may point to differential strategies for improvement. States with high overall quality but poor quality for Hispanics might target this population for support; States with low overall quality and high quality for Hispanics might seek to improve care for everyone.
- The State Snapshots tool (<http://nhqrnet.ahrq.gov/inhqrdr/state/select>), part of the QDR Web site, focuses on variation across States and helps State health leaders, researchers, and consumers understand the status of health care in individual States and the District of Columbia. It is based on more than 100 QDR measures for which State estimates are possible.

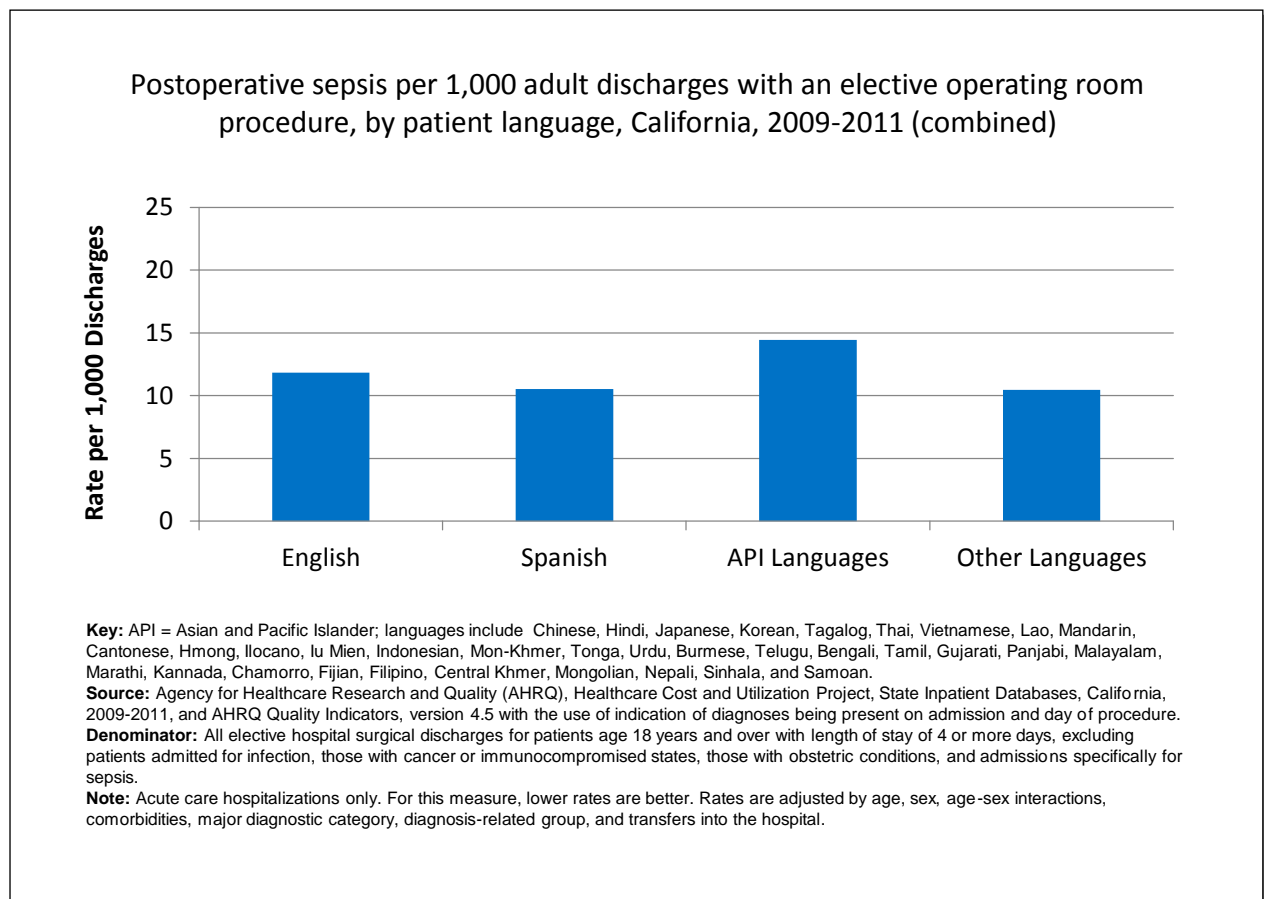
NQS Priority: Patient Safety

Postoperative Sepsis



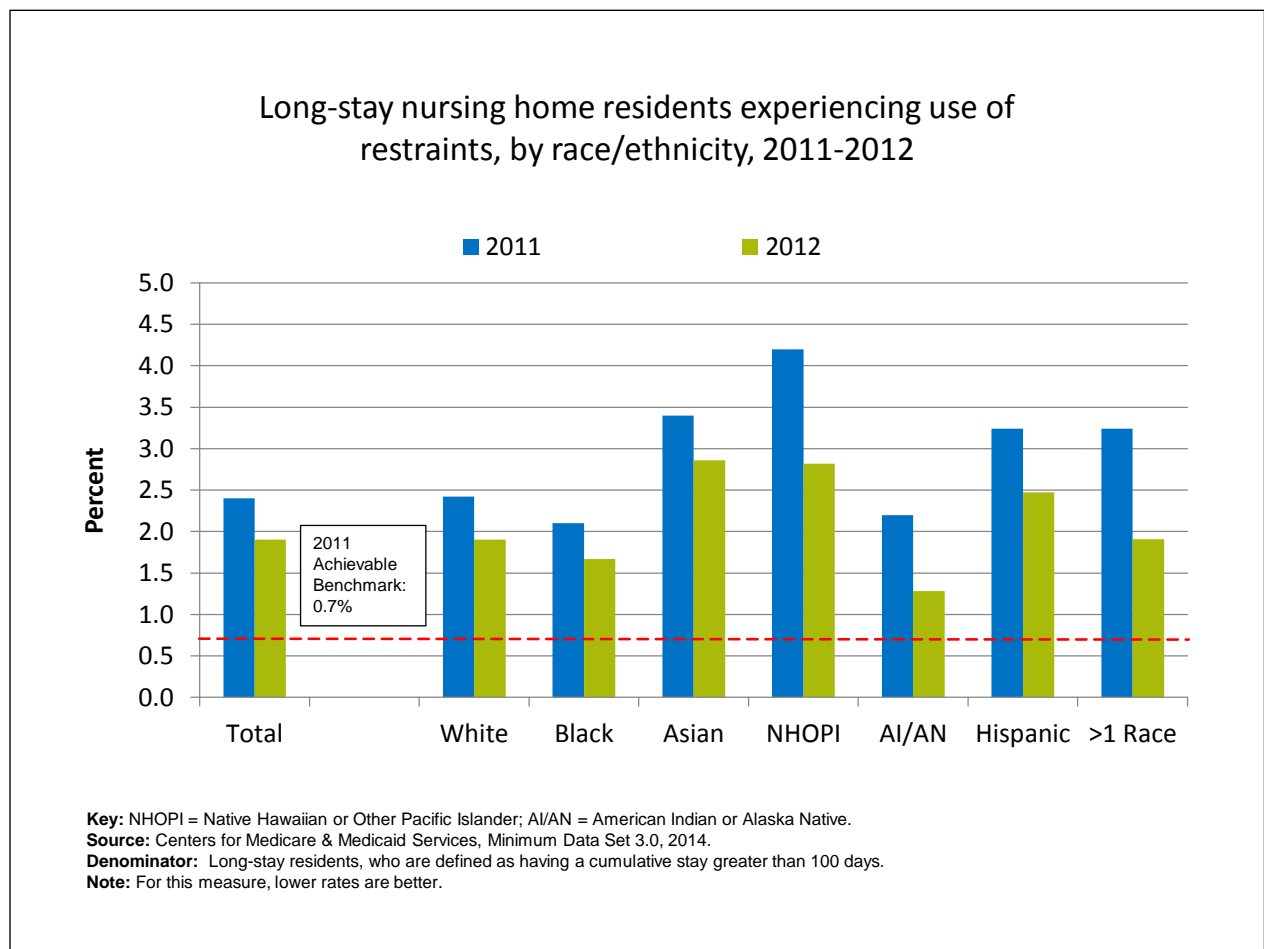
- **Overall Rate:** In 2011, the postoperative sepsis rate was 16.4 per 1,000 adult discharges with an elective operating room procedure.
- **Trends:** From 2008 through 2011, there were no statistically significant changes overall or for any ethnic group in the rate of postoperative sepsis.
- **Groups With Disparities:**
 - In all years, Hispanic patients and Black patients had higher rates of postoperative sepsis than their White counterparts.
 - In 2009 and 2011, Hispanic men had higher rates of postoperative sepsis than Hispanic women.

Postoperative Sepsis, by Patient Language



- **Groups With Disparities:** From January 2009 through December 2011 combined, there were no statistically significant differences by language spoken in rates of postoperative sepsis.

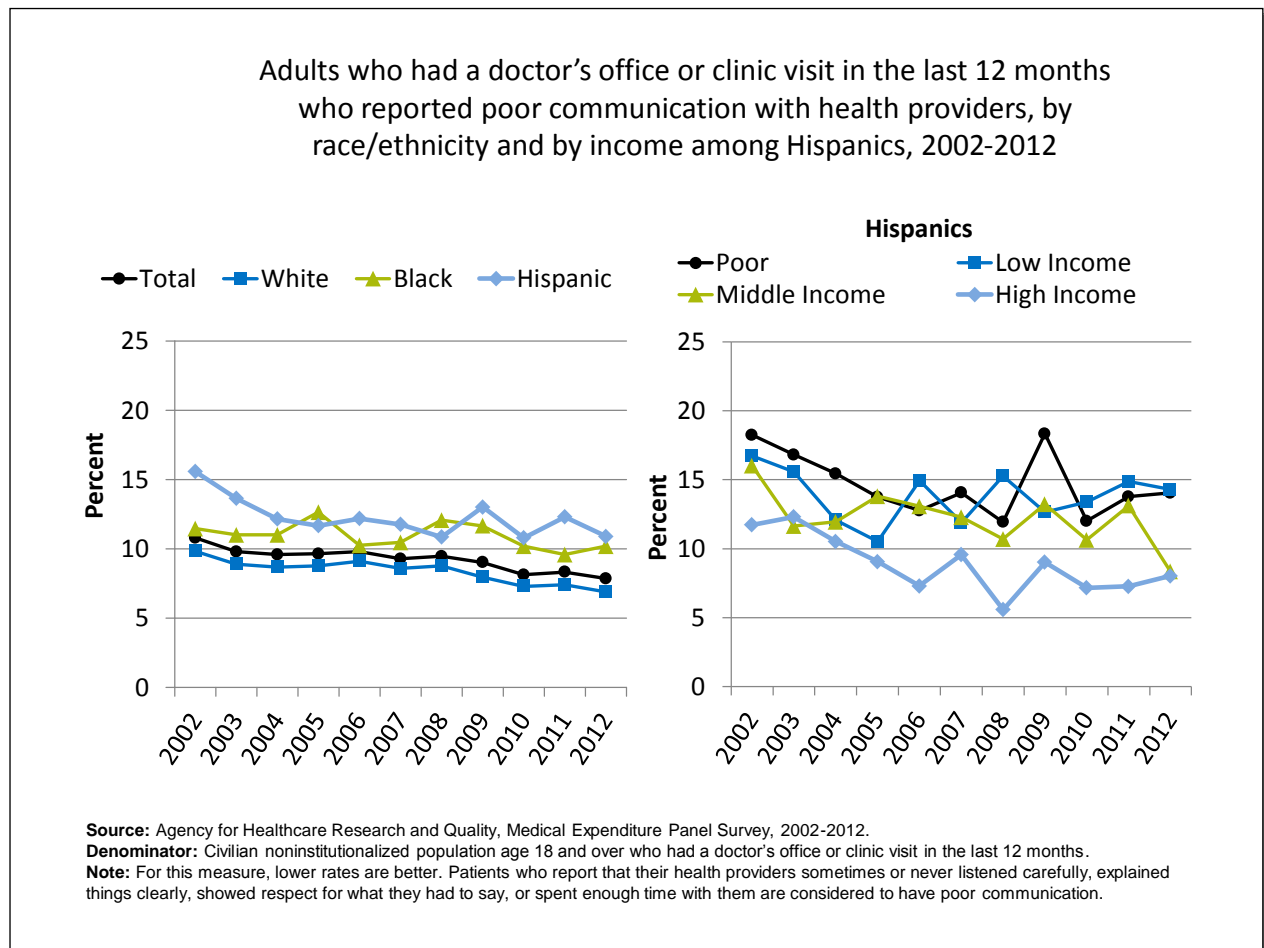
Use of Restraints in Nursing Homes



- **Importance:** Residents who are restrained daily can become weak, lose their ability to go to the bathroom by themselves, and develop pressure ulcers or other medical conditions.
- **Overall Rate:** In 2012, the percentage of long-stay nursing home residents who were physically restrained on a daily basis was 1.9%.
- **Groups With Disparities:**
 - In 2012, Asians, Native Hawaiians and Other Pacific Islanders, and Hispanics had higher rates of daily restraint use compared with Whites.
 - Blacks and American Indians and Alaska Natives had lower rates of daily restraint use compared with Whites.
- **Achievable Benchmark:**
 - In 2011, the top 5 State achievable benchmark for restraint use was 0.7%. The States that contributed to the achievable benchmark are Kansas, Maine, Nebraska, New Hampshire, and Vermont.
 - No group has achieved the benchmark.

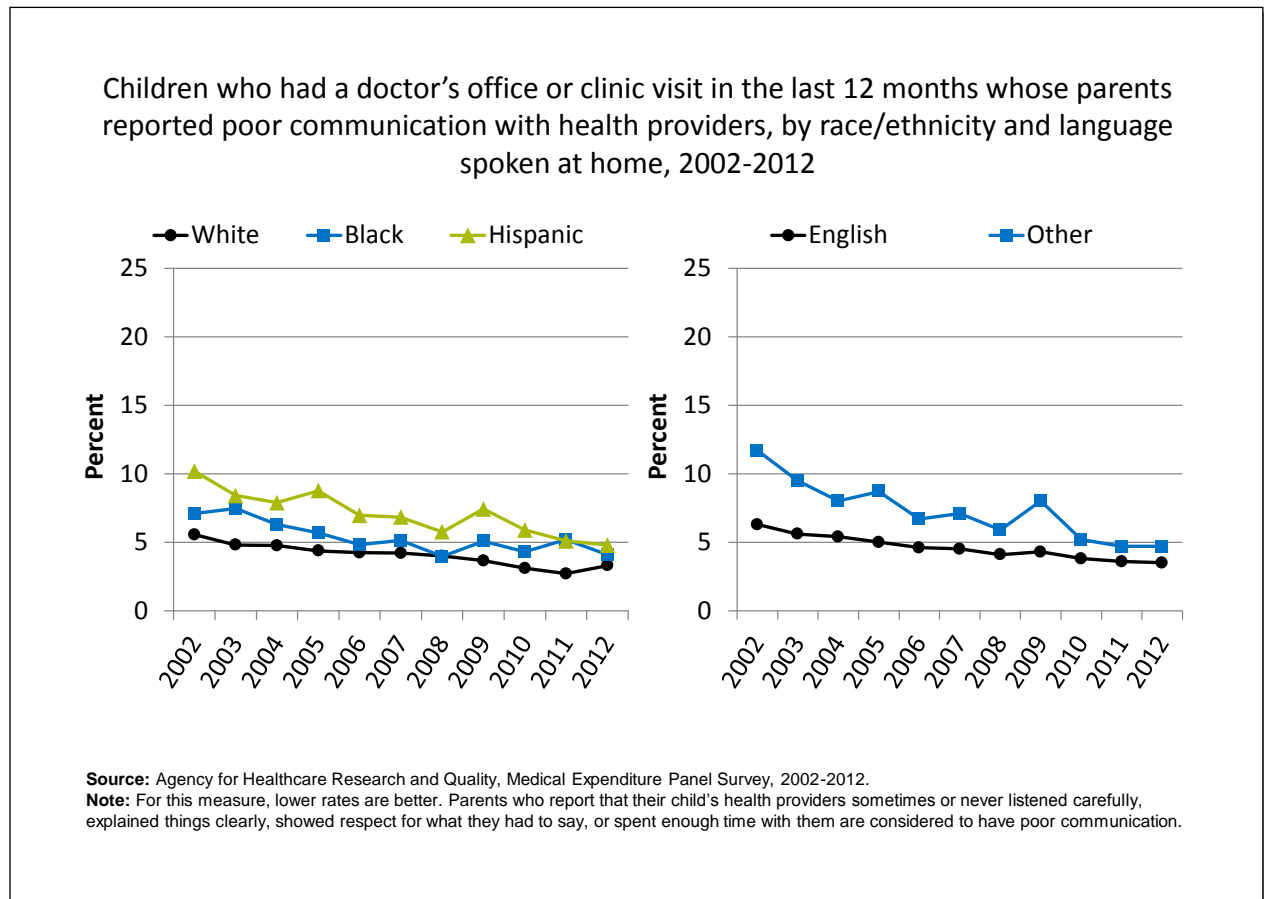
NQS Priority: Person-Centered Care

Communication With Health Providers: Adults



- **Trends:** From 2002 to 2012, the percentage of adults who reported poor communication with health providers significantly decreased for Whites, Hispanics, and all income groups. There were no statistically significant changes among Blacks.
- **Groups With Disparities:**
 - In all years, Hispanics were significantly more likely than Whites to have poor communication with their health providers.
 - In all years except 2006, Blacks were significantly more likely than Whites to have poor communication with their health providers.
 - In all years except 2003, poor Hispanics were significantly more likely than high-income Hispanics to have poor communication with their health providers.

Communication With Health Providers: Children



- **Trends:** From 2002 to 2012, the percentage of children whose parents reported poor communication with health providers significantly decreased for all ethnic groups and both language groups.

- **Ethnicity:**

- ◆ Whites: 5.6% to 3.3%
 - ◆ Blacks: 7.1% to 4.1%
 - ◆ Hispanics: 10.2% to 4.8%

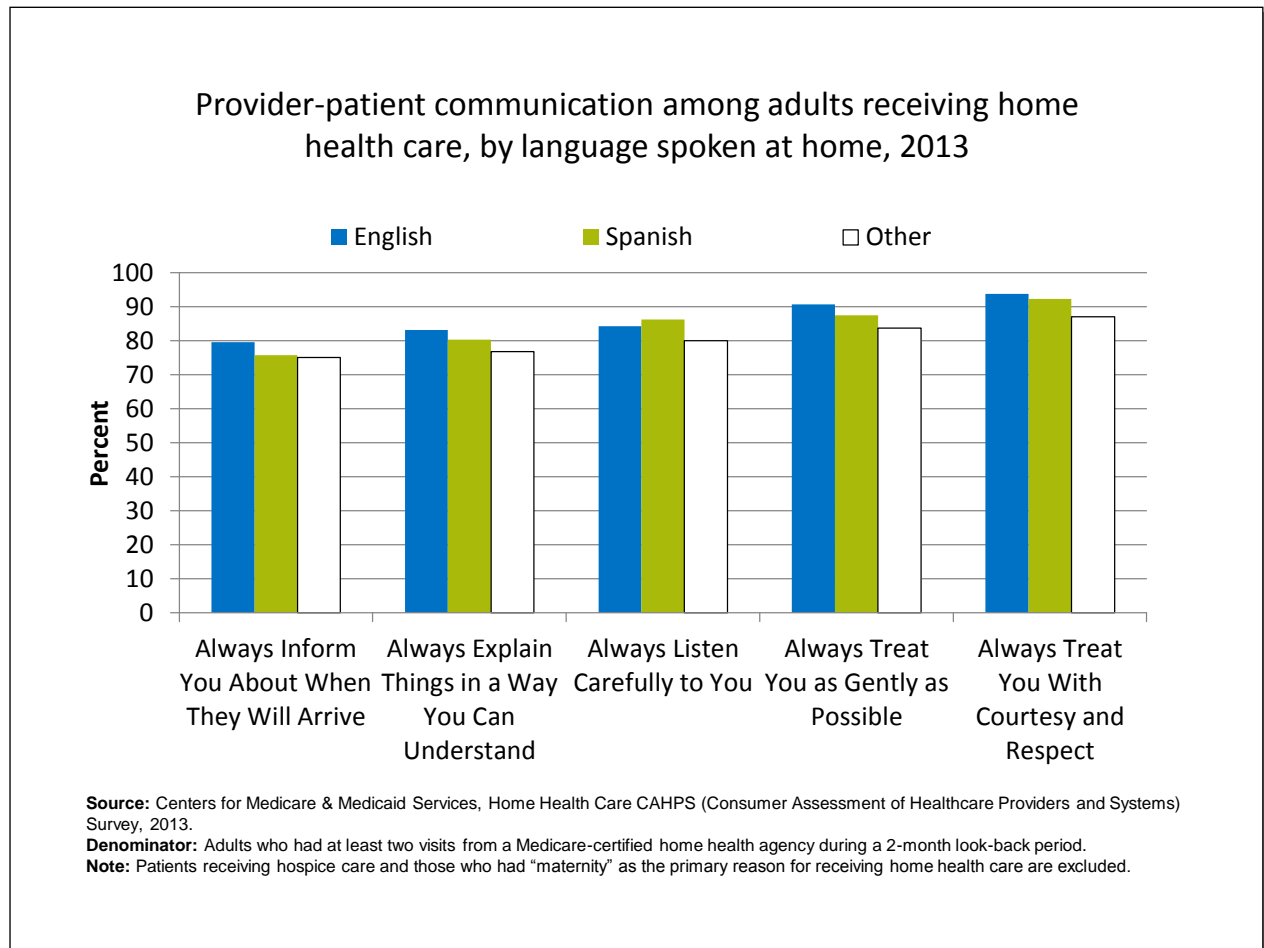
- **Preferred language:**

- ◆ English: 6.3% to 3.5%
 - ◆ Other: 11.7% to 4.7%

- **Groups With Disparities:**

- In 2012, parents of Hispanic children were significantly more likely to report poor communication compared with parents of White children.
 - Also in 2012, there were no statistically significant differences between Blacks and Whites or by preferred language.

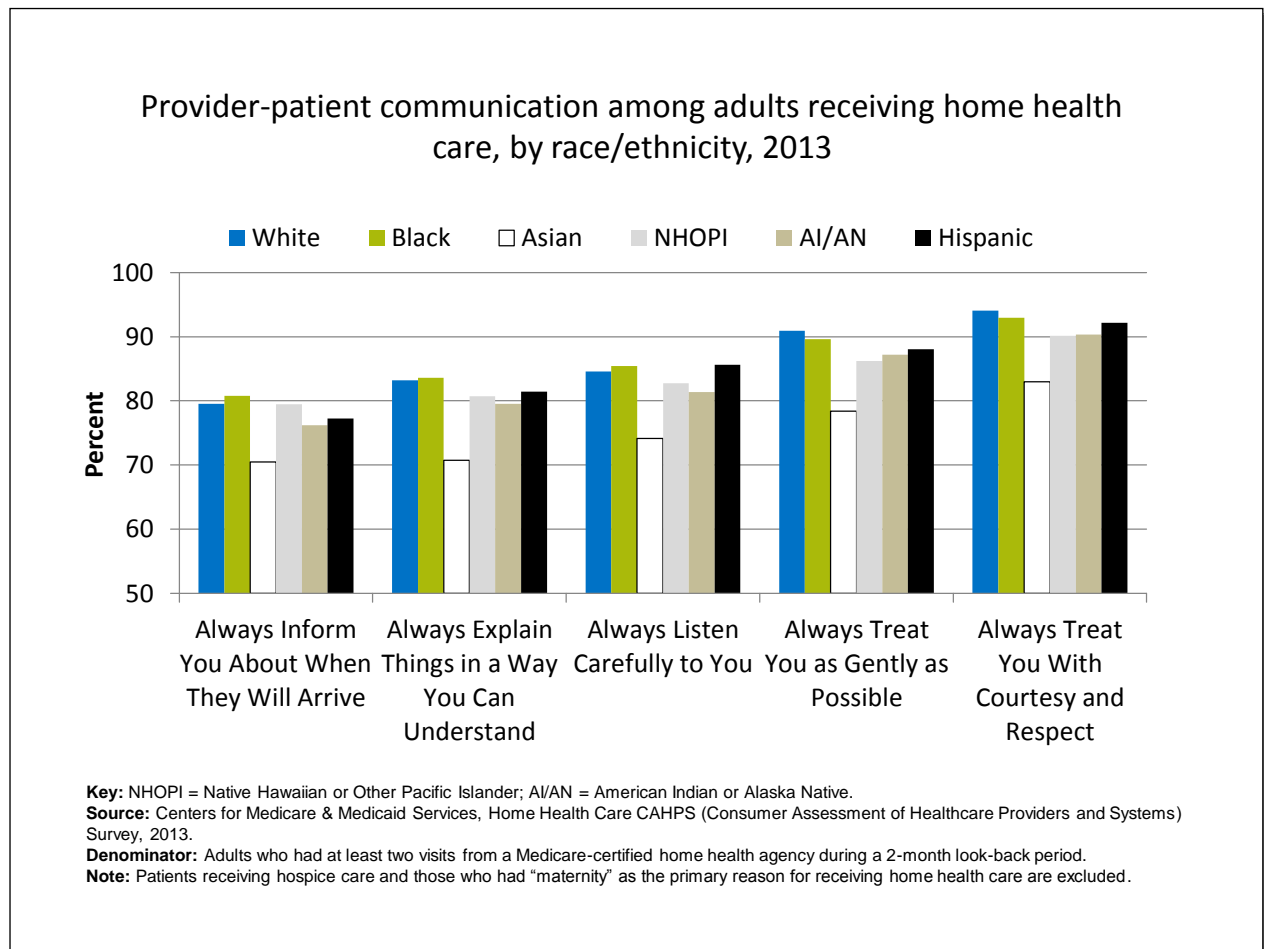
Provider-Patient Communication in Home Health Care



• **Groups With Disparities:**

- In 2013, compared with English speakers, adults speaking Spanish or another language at home were significantly less likely to:
 - ◆ Always be informed about when their provider would arrive.
 - ◆ Always have things explained in a way that was easy to understand.
 - ◆ Always be treated as gently as possible.
 - ◆ Always be treated with courtesy and respect.
- Adults speaking a language other than English or Spanish were significantly less likely than English- and Spanish-speaking adults to always have the provider listen carefully to them.
- Adults speaking Spanish at home were significantly more likely than English-speaking adults to report that the provider always listened carefully to them.

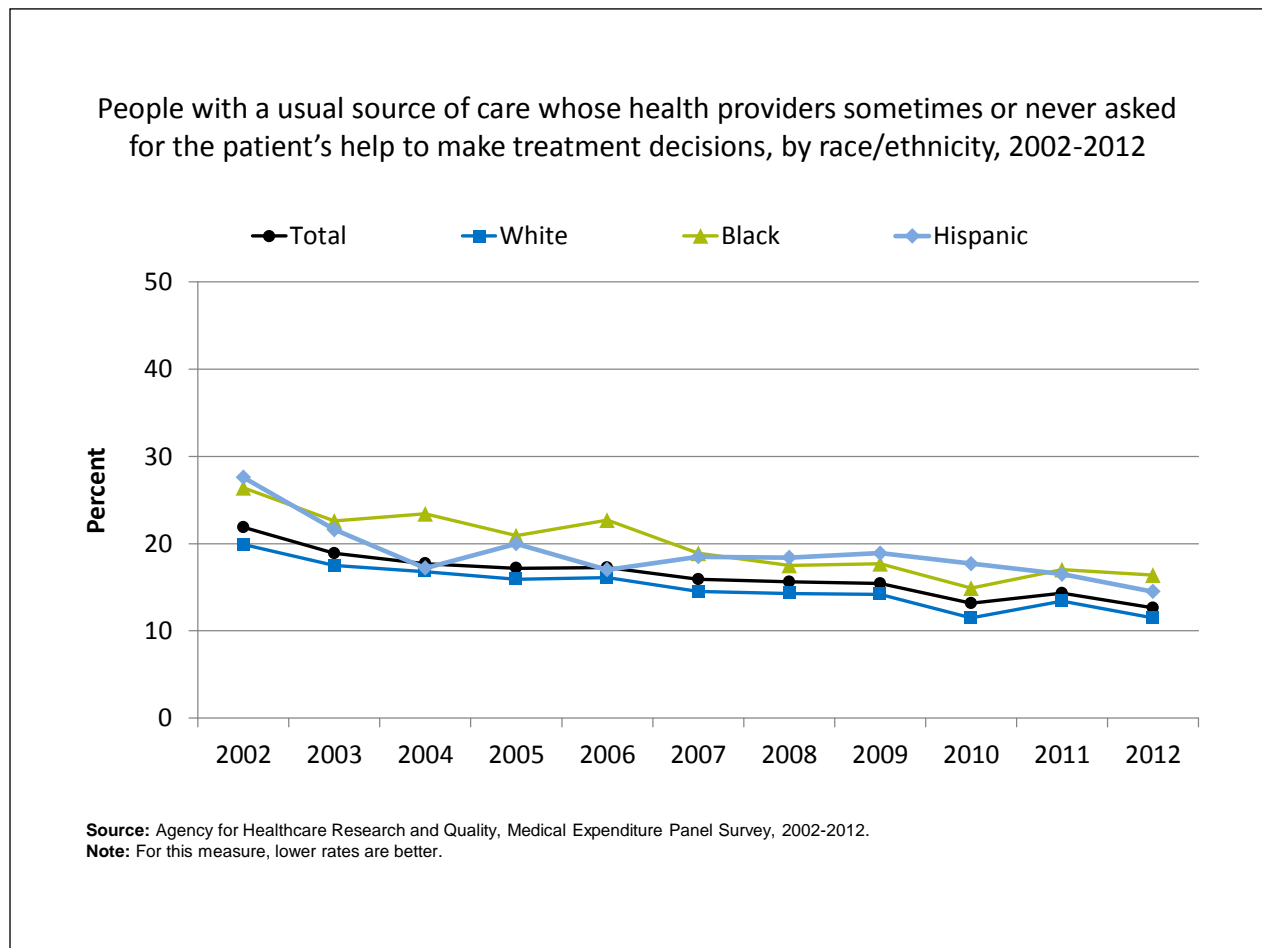
Provider-Patient Communication in Home Health Care



• **Groups With Disparities:**

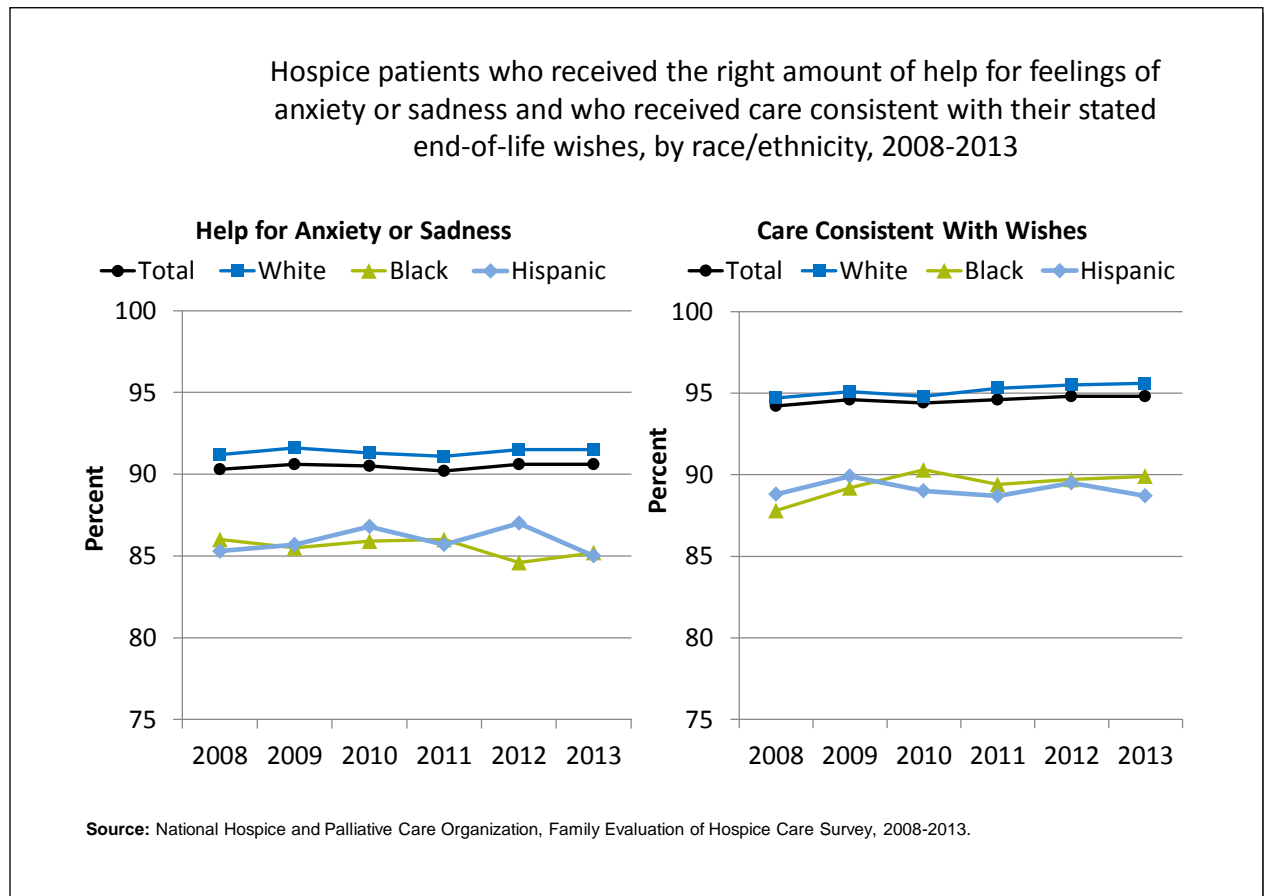
- In 2013, among home health care patients, compared with Whites:
 - ◆ Asians, American Indians and Alaska Natives (AI/ANs), and Hispanics were significantly less likely to always be informed about when their provider would arrive.
 - ◆ Asians, Native Hawaiians and Other Pacific Islanders (NHOPIs), AI/ANs, and Hispanics were significantly less likely to always have things explained in a way that was easy to understand.
 - ◆ Asians, NHOPIs, and AI/ANs were significantly less likely to always be listened to carefully.
 - ◆ Blacks, Asians, NHOPIs, AI/ANs, and Hispanics were significantly less likely to always be treated as gently as possible.
 - ◆ Blacks, Asians, NHOPIs, AI/ANs, and Hispanics were significantly less likely to always be treated with courtesy and respect.

Providers Asking for Patient's Help With Treatment Decisions



- **Trends:** Significant improvements were observed from 2002 to 2012:
 - Total: 21.9% to 12.7%
 - Whites: 19.9% to 11.5%
 - Blacks: 26.4% to 16.4%
 - Hispanics: 27.6% to 14.5%
- **Groups With Disparities:**
 - In all years, Blacks were significantly less likely than Whites to be involved in their treatment decisions.
 - In all years except 2004 and 2006, Hispanics were significantly less likely than Whites to be involved in their treatment decisions.

Hospice Care



- **Help for Anxiety or Sadness:**

- **Trends:** From 2008 to 2013, there were no statistically significant changes by race/ethnicity in the percentage of hospice patients who received the right amount of help for feelings of anxiety or sadness.
- **Groups With Disparities:** In 2013, Hispanics and Blacks were significantly less likely than Whites to receive the right amount of help for feelings of anxiety or sadness.

- **Care Consistent With Stated Wishes:**

- **Trends:** From 2008 to 2013, the percentage of hospice patients age 65 and over who received care consistent with their stated end-of-life wishes significantly improved from 94.4% to 95.1% (data not shown). From 2008 to 2013, White (94.7% to 95.6%) and Black (87.8% to 89.9%) hospice patients showed significant improvement, whereas Hispanics showed no statistically significant changes during this period.
- **Groups With Disparities:** In 2013, Black and Hispanic hospice patients were significantly less likely than White patients to receive care consistent with their stated end-of-life wishes.

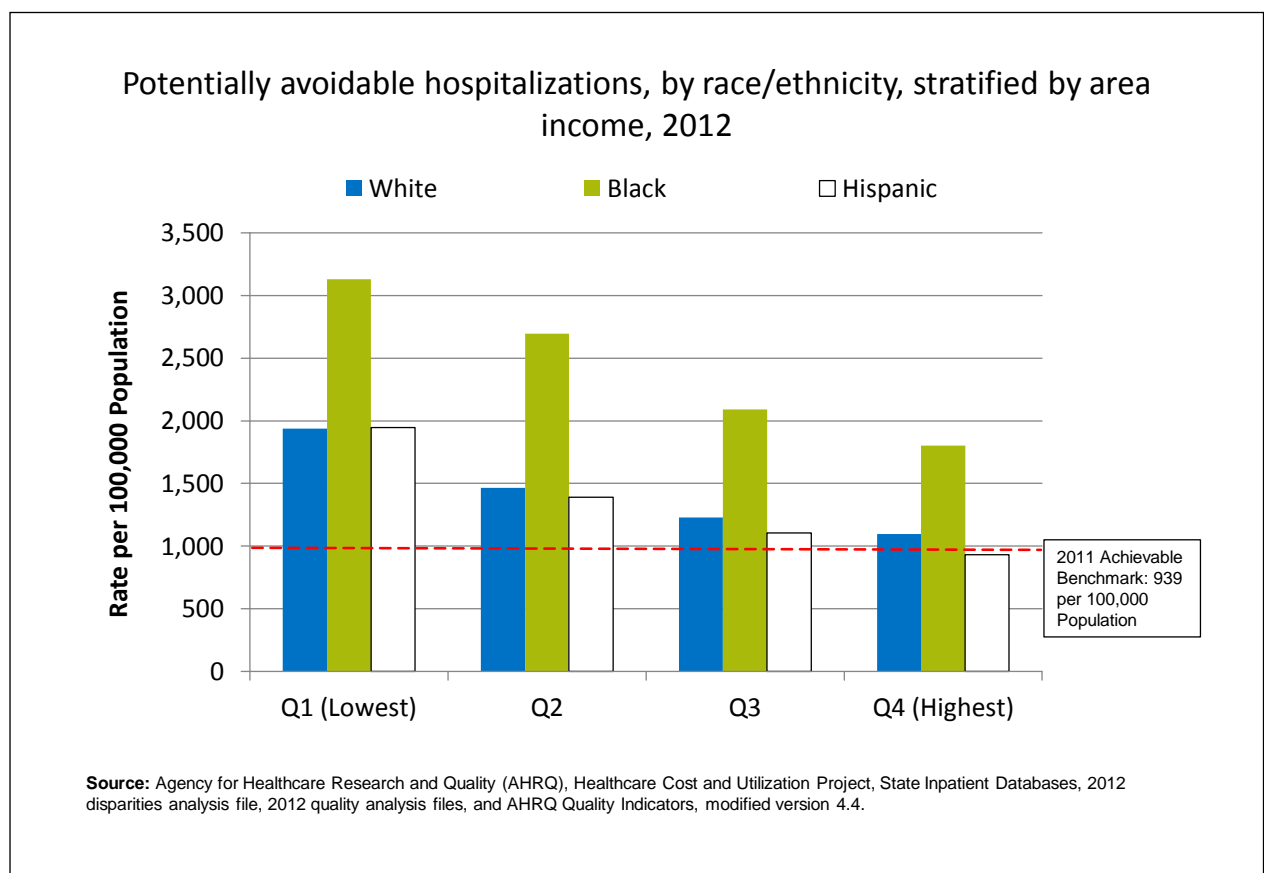
AHRQ Health Care Innovations in Hospice Care

[Hospice by the Sea, Inc.](#)

- Location: Boca Raton, Florida
- Population: Hispanic patients and families
- Intervention: Abriendo Puertas featured cultural competency training for all staff; a dedicated, bilingual care team; and outreach to educate local Hispanics and their physicians about the availability and purpose of hospice services.
- Outcomes: Enhanced awareness of, attitudes about, and willingness to accept hospice services among Hispanics, as well as improved cultural competency among staff.

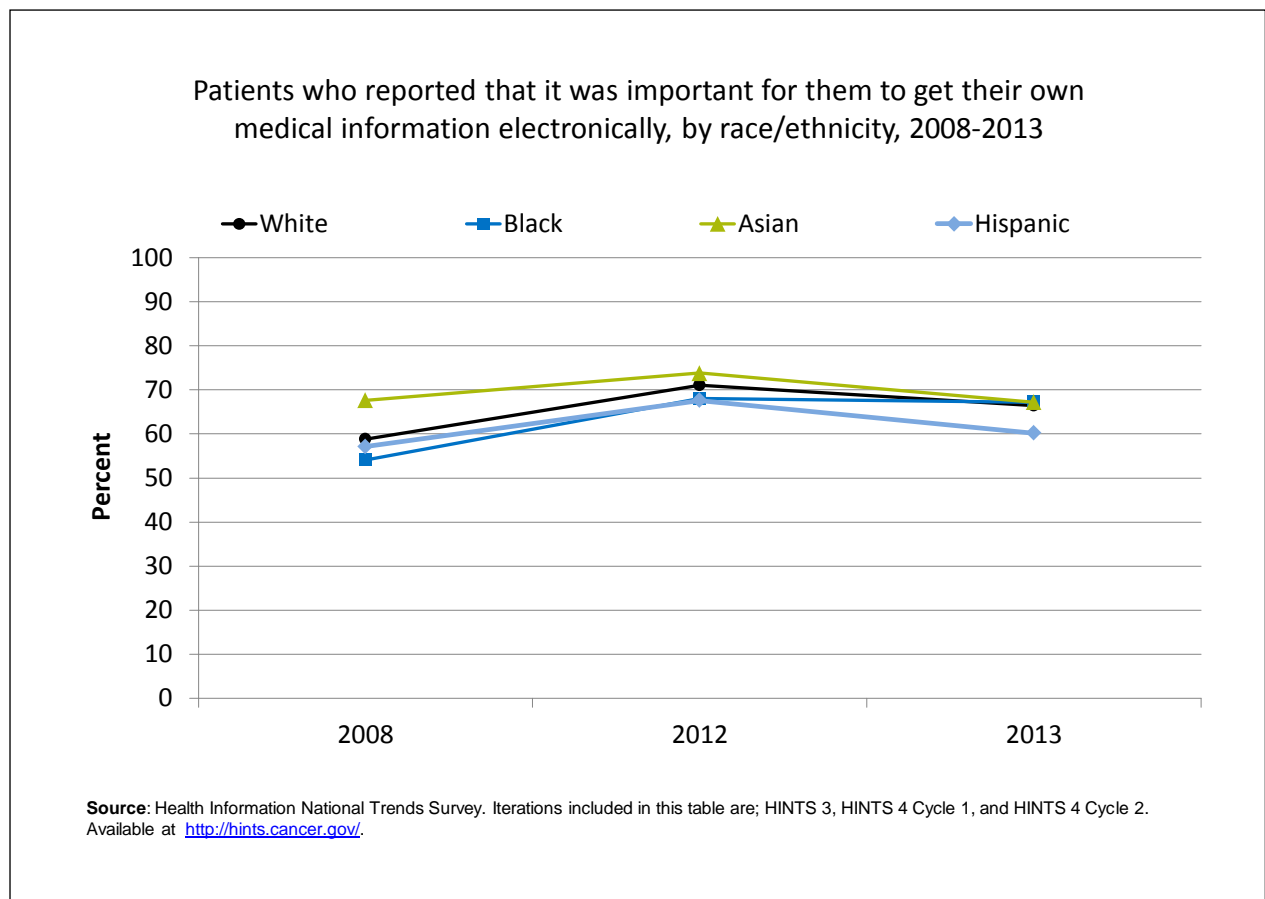
NQS Priority: Care Coordination

Potentially Avoidable Hospitalizations



- **Groups With Disparities:** In 2012, in all income groups, rates of potentially avoidable hospitalizations for all conditions were higher for Blacks than Whites.
- **Achievable Benchmark:**
 - In 2011, the top 4 State achievable benchmark for all potentially avoidable hospitalizations was 939 per 100,000 population. The States that contributed to the achievable benchmark are Hawaii, Oregon, Utah, and Washington.
 - The overall achievable benchmark could not be attained for 13 years.
 - Hispanics in the highest income quartile have already achieved the benchmark.

Importance of Getting Information Electronically



- **Trends:**

- From 2008 to 2013, the percentage of Hispanic patients who reported that it was very important to be able to get their medical information electronically increased from 57.1% to 60.2%, the percentage for Black patients increased from 54.1% to 67.2%, and the percentage for White patients increased from 58.8% to 66.4%.

- **Groups With Disparities:**

- In 2013, Hispanic patients were less likely than White, Black, and Asian patients to report that it was very important to be able to get their medical information electronically.

AHRQ Health Care Innovations in Care Coordination

[Brightwood Health Center](#)

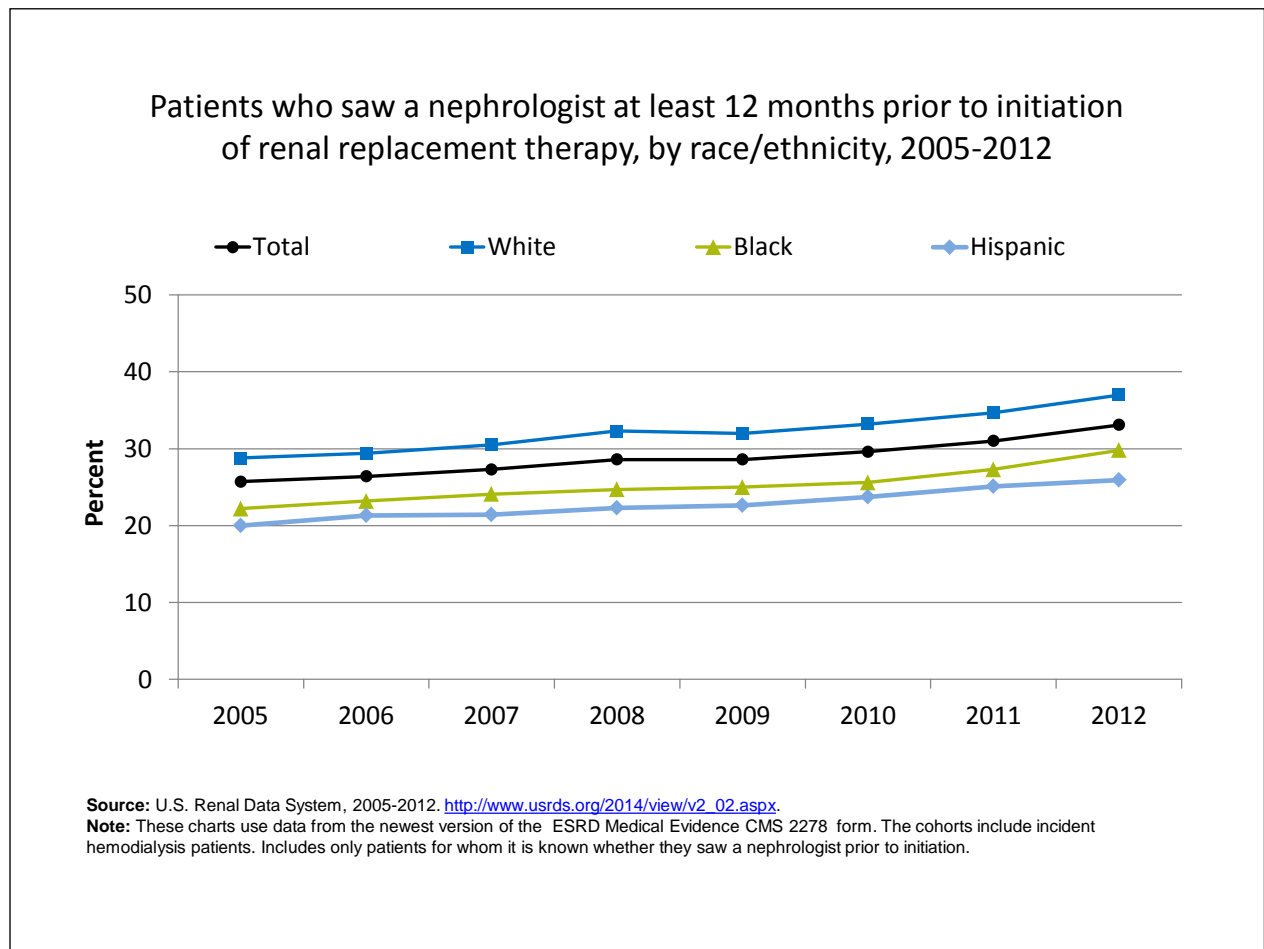
- Location: Springfield, Massachusetts
- Population: Predominantly Latino patients with chronic illnesses and disabilities
- Intervention: With funding from a per capita payment system, nurses at this community-based primary care clinic provide culturally competent care coordination.
- Outcomes: Improved the provision of recommended care processes, reduced health care costs, and enhanced self-management capabilities.

NQS Priority: Effective Treatment

- Most measures of Effective Treatment tracked in the QDR relate to priorities of the Heckler Report. Here, we illustrate effective treatment of conditions that were not priorities of the Heckler Report:

- Chronic kidney diseases
- Musculoskeletal diseases
- Respiratory diseases

Nephrologist Consultation Before Renal Replacement Therapy

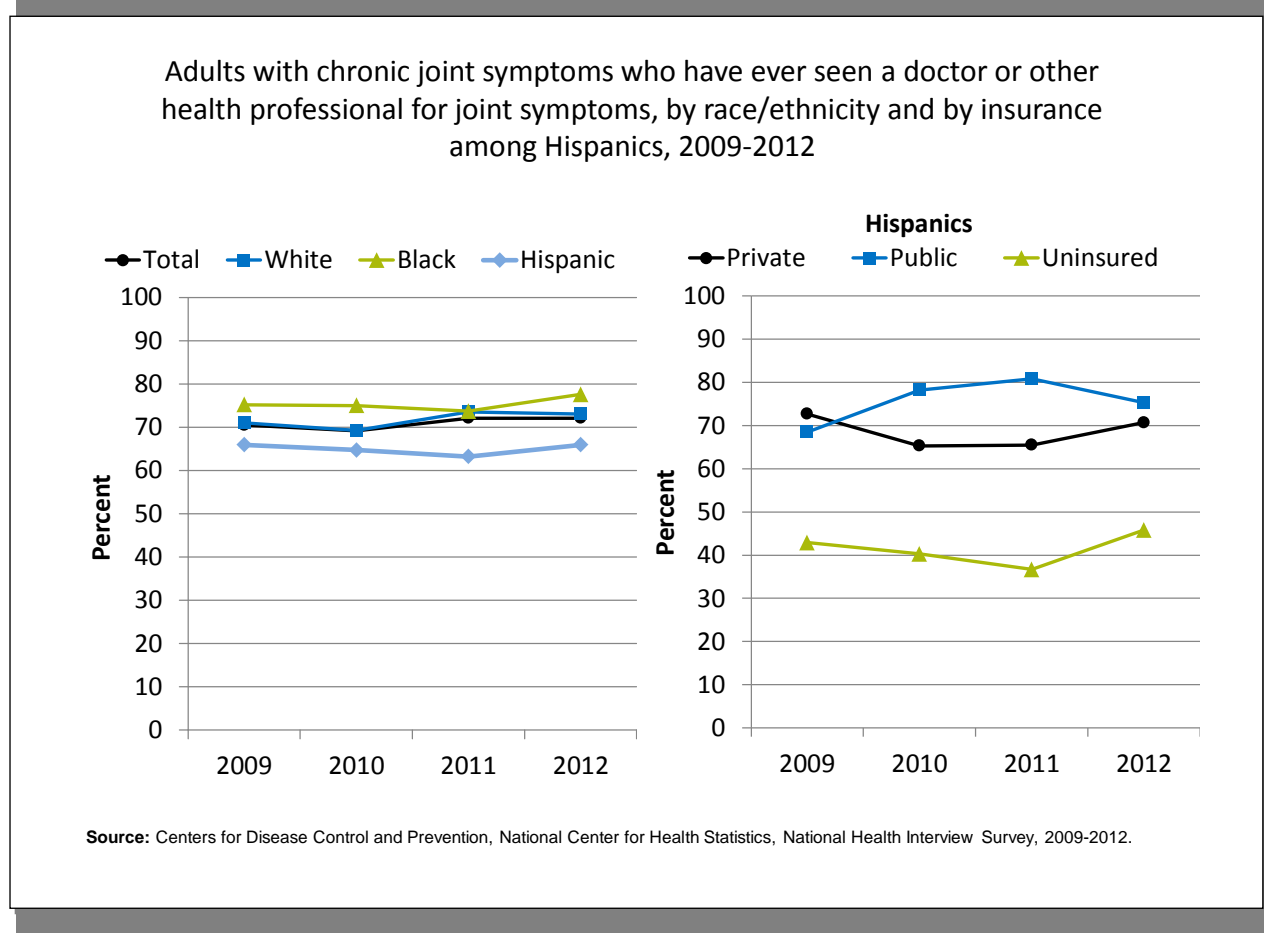


- **Importance:**

- Early referral to a nephrologist is important for patients with progressive chronic kidney disease who are approaching kidney failure.

- Patients who begin nephrology care more than a year before kidney failure are less likely to begin dialysis with a catheter, experience infections related to vascular access, or die during the months after dialysis initiation (USRDS, 2013^{iv}).
- **Trends:** The percentage of new end stage renal disease (ESRD) patients who began nephrology care at least 12 months prior to initiation of renal replacement therapy improved overall and among Whites but there were no statistically significant improvements among Hispanics and Blacks.
- **Groups With Disparities:** In all years, the percentage of new ESRD patients who began nephrology care at least 12 months prior to initiation of renal replacement therapy was higher Whites than for Hispanics.

Care for Chronic Joint Symptoms



^{iv} U.S. Renal Data System. USRDS 2013 annual data report: atlas of chronic kidney disease and end-stage renal disease in the United States. Bethesda, MD: National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases; 2013. Available at: <http://www.usrds.org/atlas.aspx>. Accessed September 19, 2013.

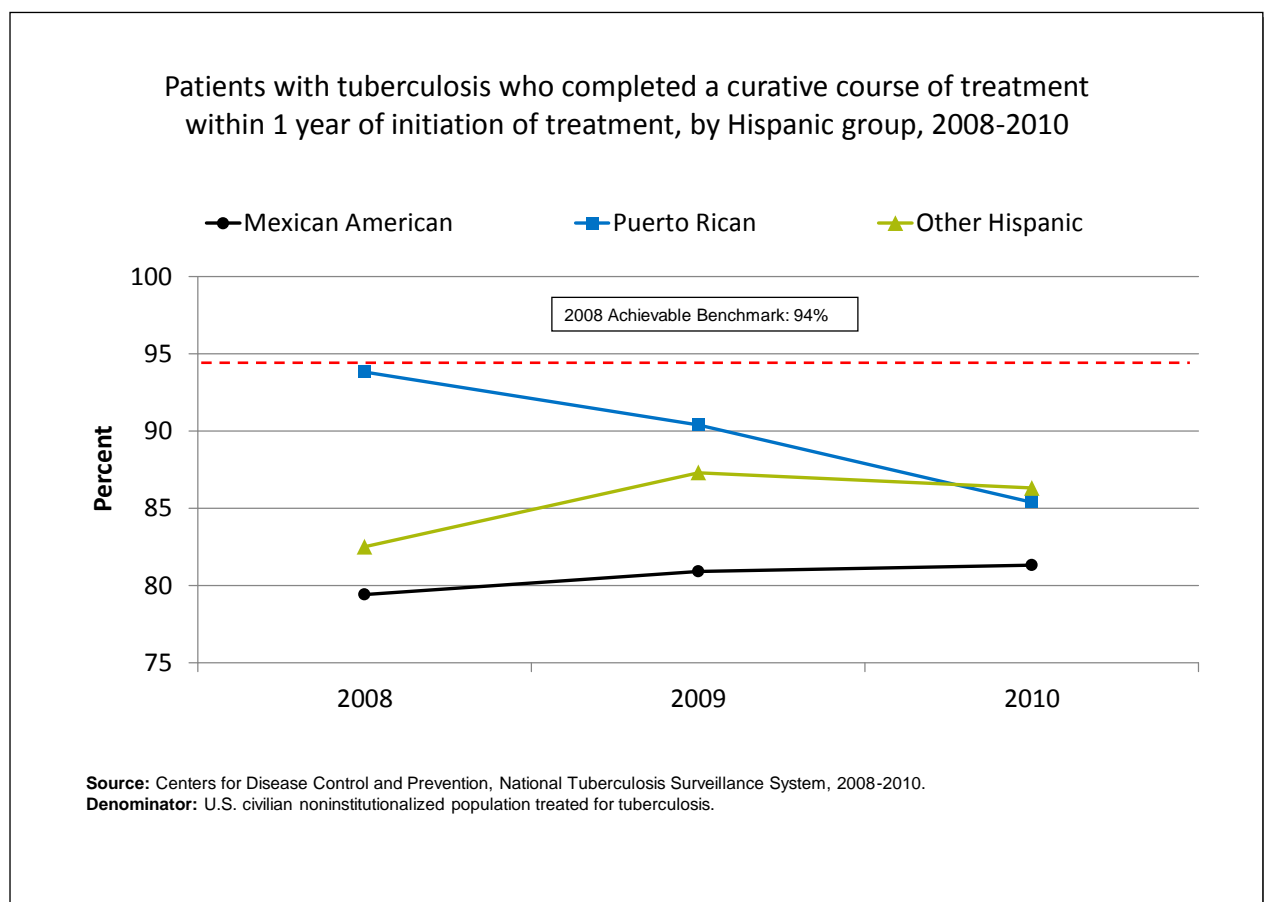
- **Trends:**

- In 2012, 72.1% of adults with chronic joint symptoms reported seeing a doctor or other health professional for joint symptoms.
- There were no statistically significant improvements overall or among any ethnic group.

- **Groups With Disparities:**

- In all years, Hispanics were less likely than Whites to report seeing a doctor or other health professional for joint symptoms.
- In all years, uninsured Hispanics were less likely than privately insured Hispanics to report seeing a doctor or other health professional for joint symptoms.

Completion of Tuberculosis Treatment

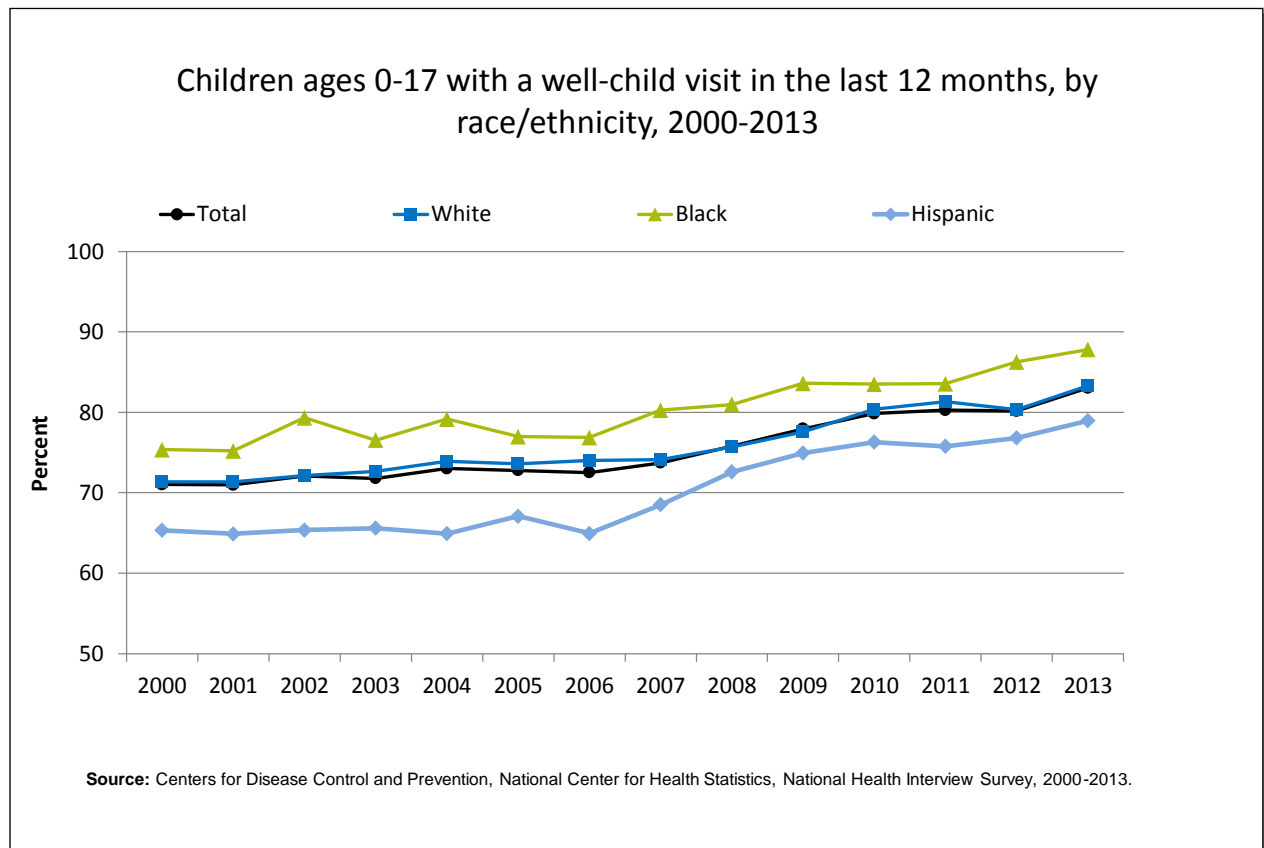


- **Groups With Disparities:**

- There is considerable variation among Hispanic groups in completion of treatment for tuberculosis.
- Most groups are far from the 2008 top 4 State achievable benchmark of 94%. The States that contributed to the achievable benchmark are Colorado, Kansas, Mississippi, and Oregon.

NQS Priority: Healthy Living

Well-Child Visits



- **Trends:**

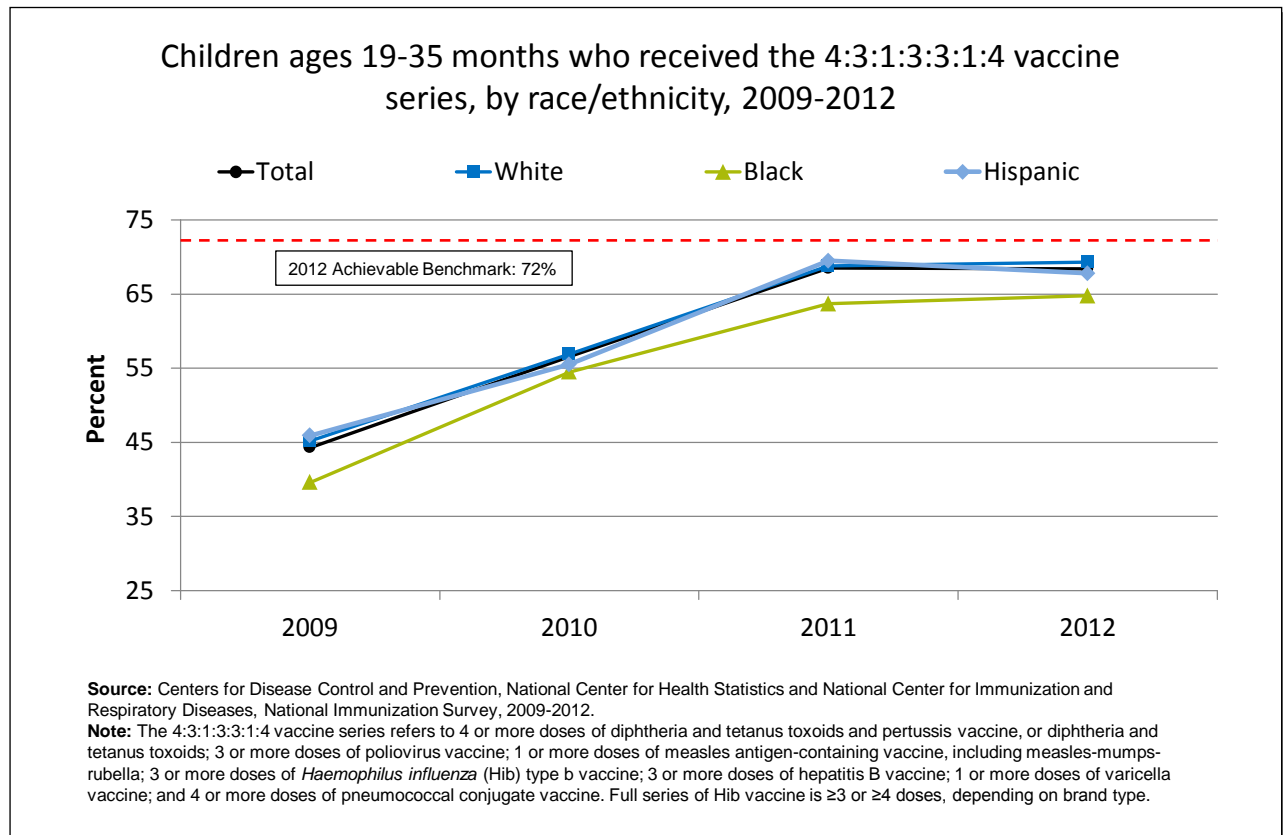
- Overall, the percentage of children ages 0-17 years who had a well-child visit (as distinct from a symptom-driven visit) in the last 12 months increased from 71% in 2000 to 83% in 2013.
- From 2000 to 2013, the percentage of children who had a well-child visit increased significantly for Whites (71.3% to 83.3%), Blacks (75.4% to 87.8%), and Hispanics (65.3% to 79%).

- **Groups With Disparities:**

- In all years, Hispanic children were less likely than White children to have had at least one well-child visit during the year.
- In all years except 2006 and 2011, Black children were more likely than White children to have had at least one well-child visit.
- There were no statistically significant changes in disparities over time.

Recommended Vaccinations for Children

The U.S. Surgeon General, Dr. Vivek H. Murthy, and Elmo want everyone to stay healthy and get vaccinated! <https://youtu.be/viS1ps0r4K0>



• Trends:

- From 2009 to 2012, the percentage of children ages 19-35 months who received the 4:3:1:3:3:1:4 vaccination series improved from 44.3% to 68.4%.
- From 2009 to 2012, the percentage of children who received all recommended vaccinations improved for Blacks (39.6% to 64.8%), Hispanics (45.9% to 67.8%), and Whites (45.2% to 69.3%).

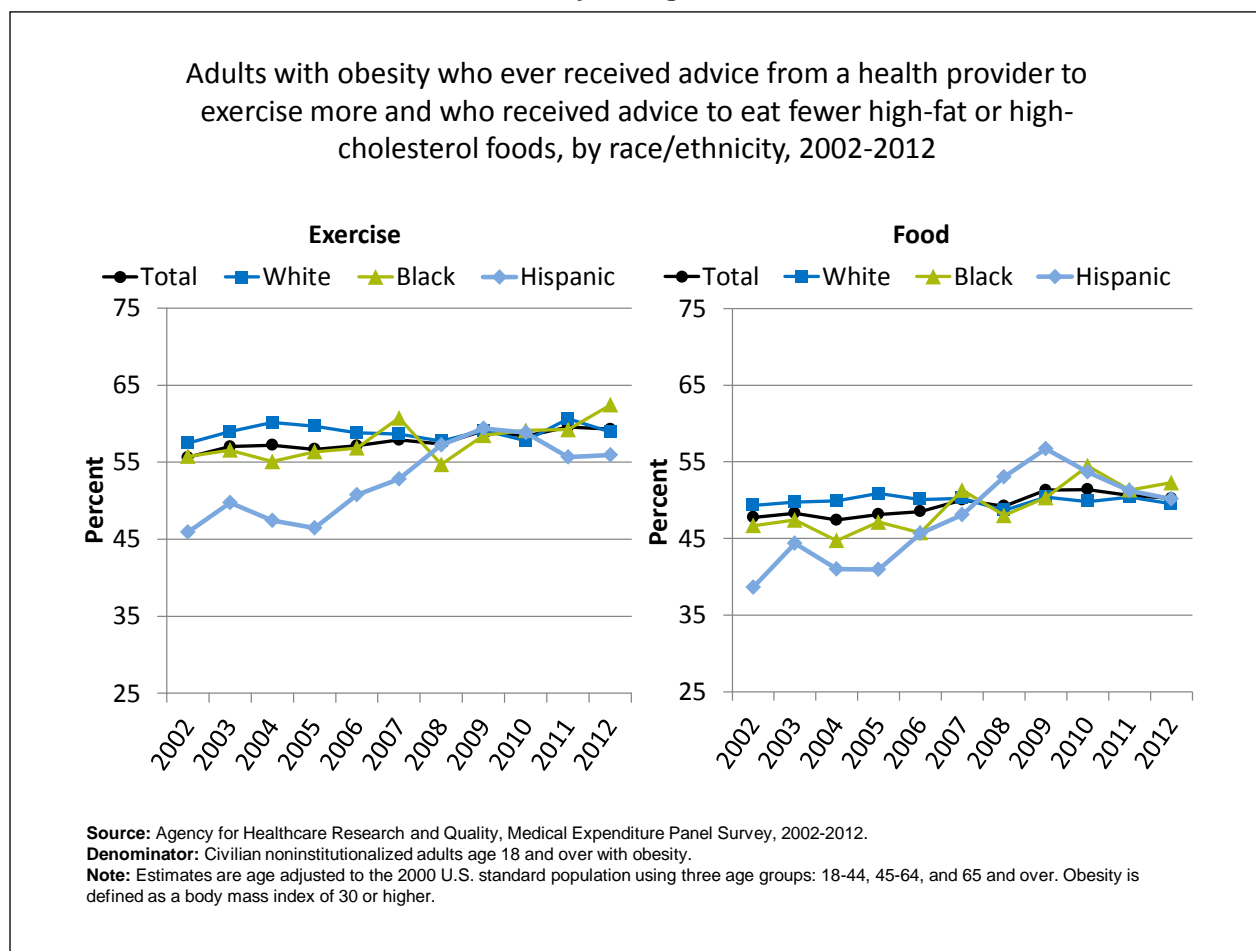
• Groups With Disparities:

- In 2012, there were no statistically significant differences between Hispanic children and White children in the percentage who received all recommended vaccines, while Black children were less likely than White children to receive all recommended vaccines.

• Achievable Benchmark:

- The 2012 top 5 State achievable benchmark was 72%. The top 5 States that contributed to the achievable benchmark are Louisiana, Maryland, Massachusetts, New Hampshire, and Ohio.
- White, Black, and Hispanic children could achieve the benchmark within a year.

Advice for Adults About Exercise and Healthy Eating



- **Advice About Exercise:**

- **Overall Rate:** In 2012, overall, 59.3% of adults with obesity had ever received advice from a health provider to exercise more.
- **Trends:** From 2002 to 2012, the percentage of obese adults who ever received advice from a health provider to exercise more improved for Blacks (from 55.8% to 62.4%) and Hispanics (from 45.9% to 55.9%).
- **Groups With Disparities:** In 7 of 11 years, Hispanic adults with obesity were less likely to ever receive advice from a health provider to exercise more compared with White adults with obesity. The disparity has narrowed between obese Hispanic adults and obese White adults.

- **Advice About Healthy Eating:**

- **Overall Rate:** In 2012, overall, 50.2% of adults with obesity were reported to have ever received advice from a health provider about eating fewer high-fat or high-cholesterol foods.
- **Trends:** From 2002 to 2012, the percentage of adults with obesity who ever received advice about healthy eating improved for Blacks (from 46.7% to 52.3%) and Hispanics (from 38.6% to 50.2%).

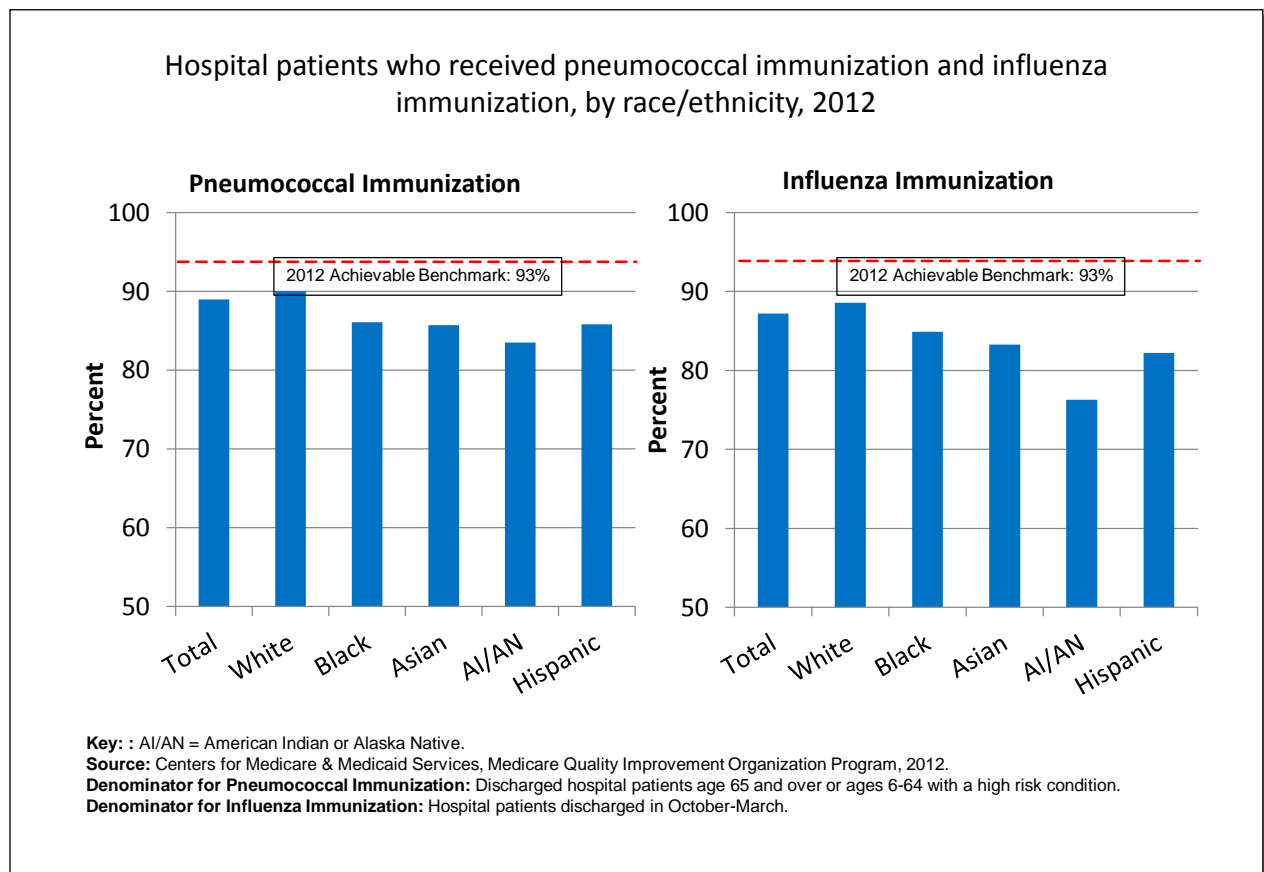
- Groups With Disparities:** In 4 of 11 years, the percentage of Hispanic adults with obesity who ever received advice about healthy eating was lower compared with White adults with obesity. The disparity between obese Hispanic and White adults has narrowed.

AHRQ Health Care Innovations in Weight Management

[Lutheran Family Health Centers](#)

- Location: Brooklyn, New York
- Population: Children in 3rd and 4th grades
- Intervention: With its school-based health program at PS 24, developed Cuerpo Sano/Mente Sana, a 36-week weight management program.
- Outcomes: Data on the program’s effectiveness are not yet available.

Pneumococcal and Influenza Immunization



- Importance:** Hospitals are important sites for ensuring people receive needed immunizations, including pneumococcal and influenza immunizations.

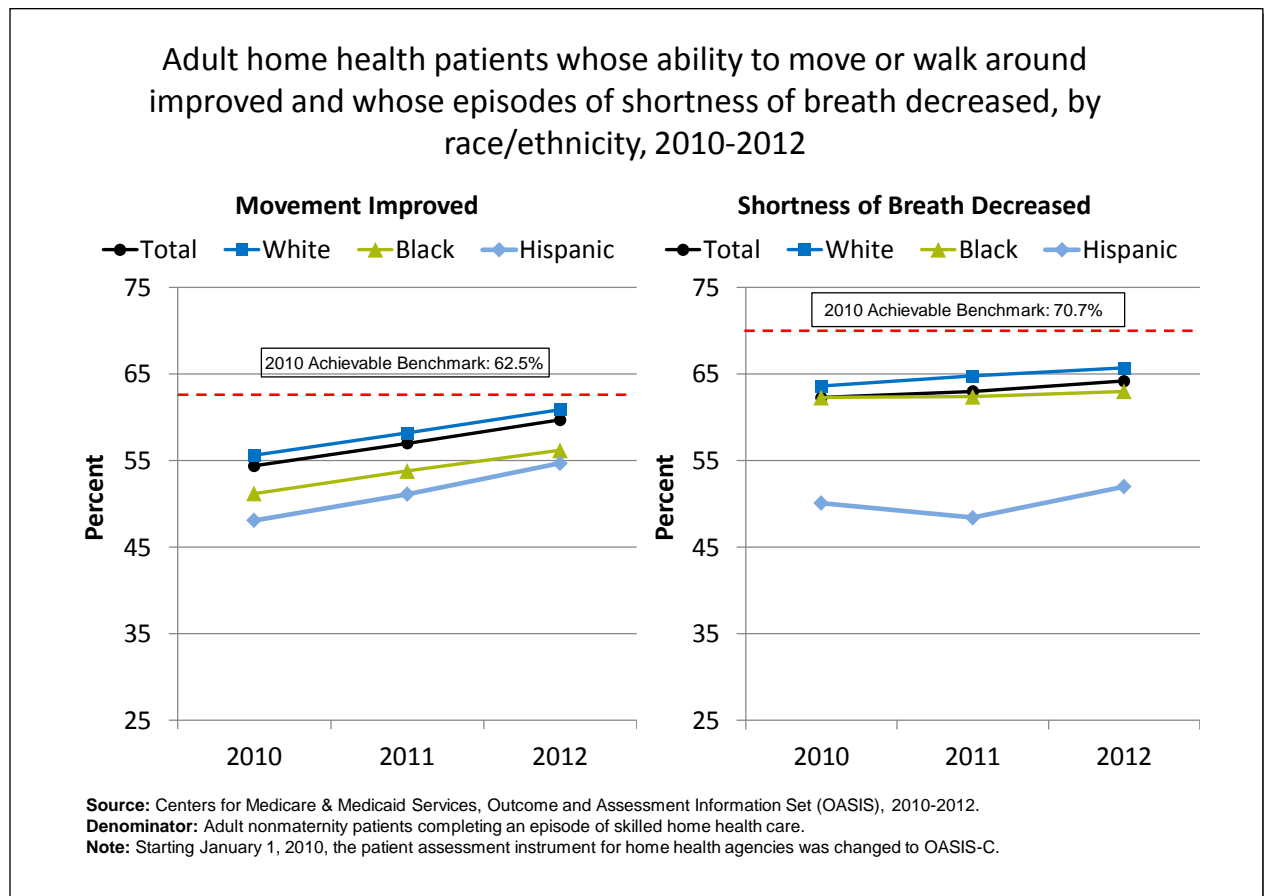
- **Pneumococcal Immunization:**

- **Overall Rate:** In 2012, 89% of hospital patients received pneumococcal immunization.
- **Groups With Disparities:** In 2012, the percentage of hospital patients who received pneumococcal immunization was lower among Blacks, Asians, AI/ANs, and Hispanics compared with Whites.
- **Achievable Benchmark:** The 2012 top 5 State achievable benchmark was 93%. The top 5 States that contributed to the achievable benchmark are Delaware, Florida, Ohio, South Carolina, and West Virginia. All groups were below the benchmark.

- **Influenza Immunization:**

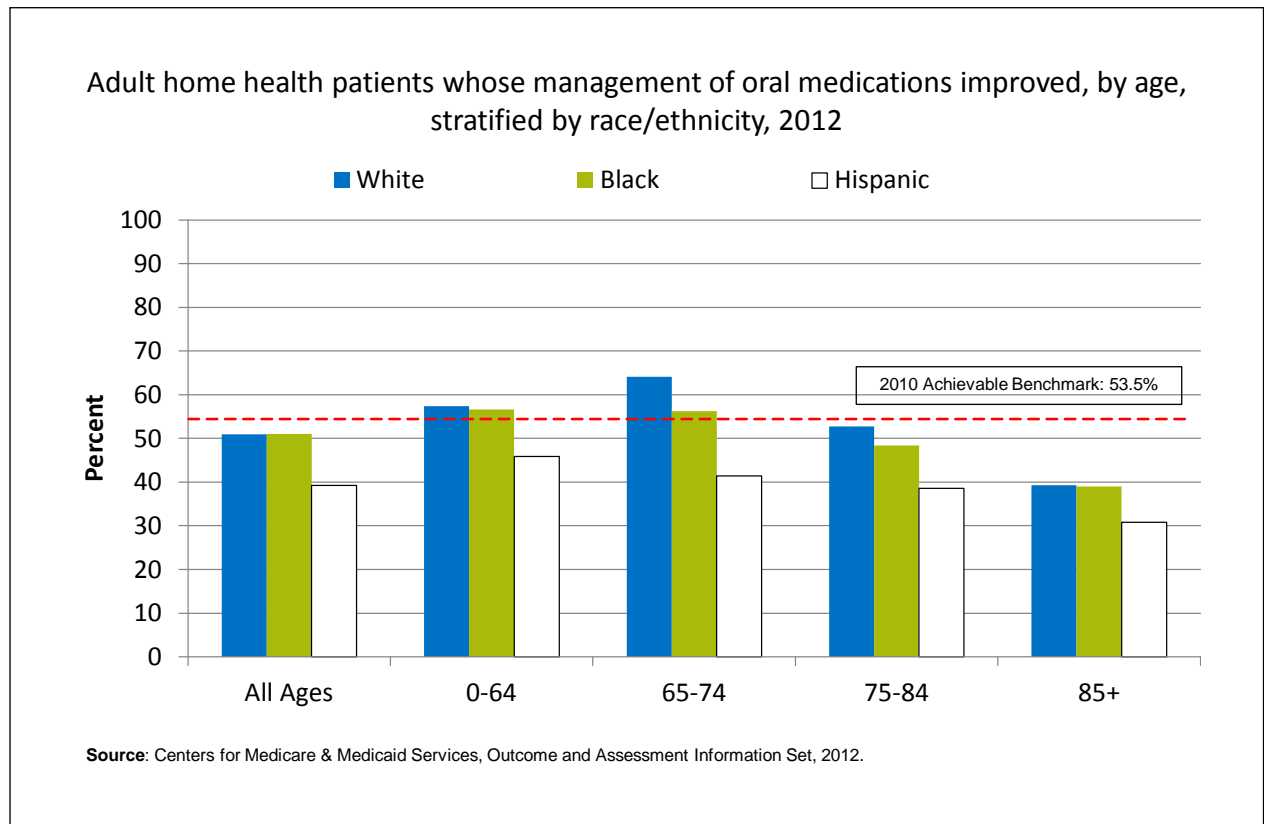
- **Overall Rate:** in 2012, 87.2% of hospital patients received influenza immunization.
- **Groups With Disparities:** In 2012, the percentage of hospital patients who received influenza immunization was lower among Blacks, Asians, AI/ANs, and Hispanics compared with Whites.
- **Achievable Benchmark:** The 2012 top 5 State achievable benchmark was 93%. The top 5 States that contributed to the achievable benchmark are Delaware, Maryland, New Hampshire, South Carolina, and West Virginia. All groups were below the benchmark.

Improvement in Mobility and Shortness of Breath Among Home Health Patients



- **Importance:** Many patients who receive home health care are recovering from an injury or illness and may have difficulty walking or moving around safely. Maintaining and improving functional status, such as patients' ability to ambulate, improves quality of life and allows them to stay at home as long as possible. Getting better at walking or moving around may be a sign that their health status is improving. Shortness of breath interferes with activities such as walking and is an important health status indicator.
- **Improved Movement:**
 - **Overall Rate:** In 2012, 59.7% of home health patients showed improvement in walking or moving around.
 - **Groups With Disparities:** In all years, Hispanic home health patients were less likely than White home health patients to get better at walking or moving around. In 2011 and 2012, Black home health patients were less likely than White patients to get better at walking or moving around.
 - **Achievable Benchmark:** The 2010 top 5 State achievable benchmark was 62.5%. The top 5 States that contributed to the achievable benchmark are Maine, Missouri, New Jersey, South Carolina, and Utah. **No group has achieved the benchmark.** Data are insufficient to determine time to benchmark.
- **Decreased Shortness of Breath:**
 - **Overall Rate:** In 2012, 64.2% of home health patients had less shortness of breath.
 - **Groups With Disparities:** In all years, Hispanics were less likely than Whites to show improvement in shortness of breath.
 - **Achievable Benchmark:** The 2010 top 5 State achievable benchmark was 70.7%. The top 5 States that contributed to the achievable benchmark are District of Columbia, Hawaii, Maryland, New Jersey, and South Carolina. **No group has achieved the benchmark.** Data are insufficient to determine time to benchmark.

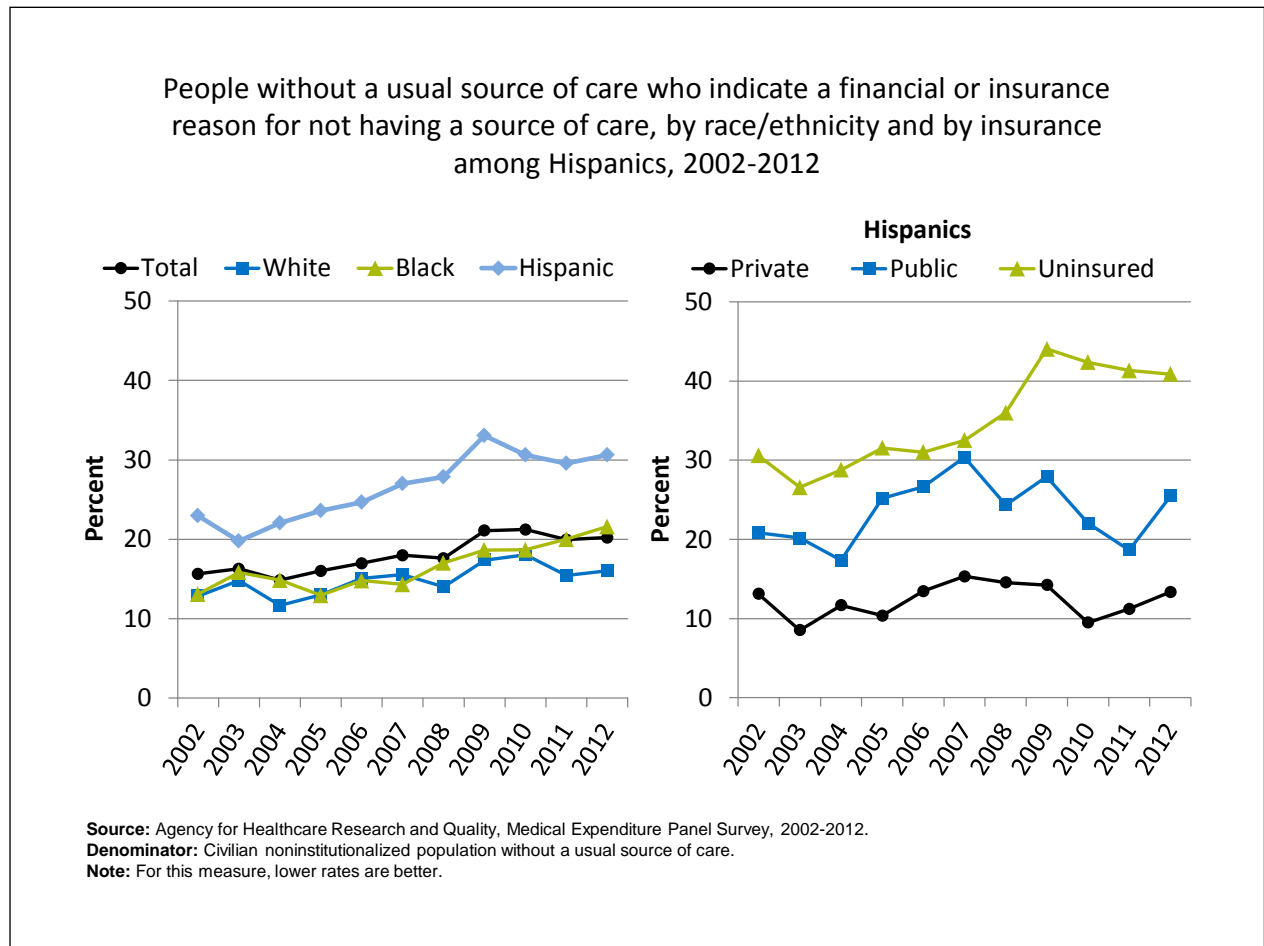
Improved Medication Management Among Home Health Patients



- **Importance:** Patients who have problems taking their medications as prescribed are at risk for adverse outcomes, including lack of improvement, worsening of disease, serious side effects, and death.
- **Overall Rate:** In 2012, 49.7% of home health patients got better at taking their medications, compared with 47.3% in 2011 and 46.2% in 2010 (data not shown).
- **Groups with Disparities:** In 2012, Hispanic home health patients in all age groups were less likely than Whites and Blacks to get better at taking their medications.
- **Achievable Benchmark:**
 - The 2010 top 5 State achievable benchmark was 53.5%. The top 5 States that contributed to the achievable benchmark are District of Columbia, Illinois, New Jersey, North Dakota, and South Carolina.
 - In 2012, White and Black home health patients ages 0-64 and 65-74 had a rate higher than the benchmark.
 - Data are insufficient to determine time to benchmark for other groups.

NQS Priority: Care Affordability

Lack of Usual Source of Care for Financial or Insurance Reasons



- **Importance:** High-quality health care is facilitated by having a regular provider, but some Americans may not be able to afford one.
- **Overall Rate:** In 2012, 20.2% of people without a usual source of care indicated a financial or insurance reason for not having a source of care.
- **Trends:**
 - The overall percentage worsened from 2002 to 2010 and then leveled off.
 - The percentage worsened among Blacks and Hispanics.
- **Groups With Disparities:** In all years, the percentage of people without a usual source of care who indicated a financial or insurance reason for not having a source of care was higher:
 - Among Hispanics compared with Whites.
 - Among uninsured Hispanics compared with privately insured Hispanics.
 - Among publicly insured Hispanics compared with privately insured Hispanics (except in 2004).

AHRQ Health Care Innovations in Reducing Costs**[Molina Healthcare](#)**

- Location: Long Beach, California
- Intervention: Instituted TeleSalud, a 24-hour bilingual advice line that provides callers with direct access to a registered nurse who can address their health and interpreter needs in their preferred language.
- Outcomes: Significantly increased the number of calls coming from Spanish-speaking members and has helped members to make wiser choices, leading to fewer emergency department visits and significant cost savings.

PART 4: HEALTH CARE OF RESIDENTS OF THE U.S.-MEXICO BORDER

This part of the chartbook focuses on health care of residents on the U.S. side of the U.S.-Mexico border. In future, we will seek to add information about the Mexico side of the border.

U.S.-Mexico Border Region

- U.S.-Mexico border region exists within:
 - 100 km (62.2 miles) of the international boundary.
 - U.S. States of California, Arizona, New Mexico, and Texas.
 - Mexican States of Baja California, Sonora, Chihuahua, Coahuila, Nuevo Leon, and Tamaulipas.
- U.S.-Mexico Border Health Commission focuses on border health and creates a venue to address public health along the border.
- Source: <http://www.globalhealth.gov/world-regions/americas/us-mexico-border-health/>, http://www.borderhealth.org/healthy_border.php?curr=bhc_initiatives



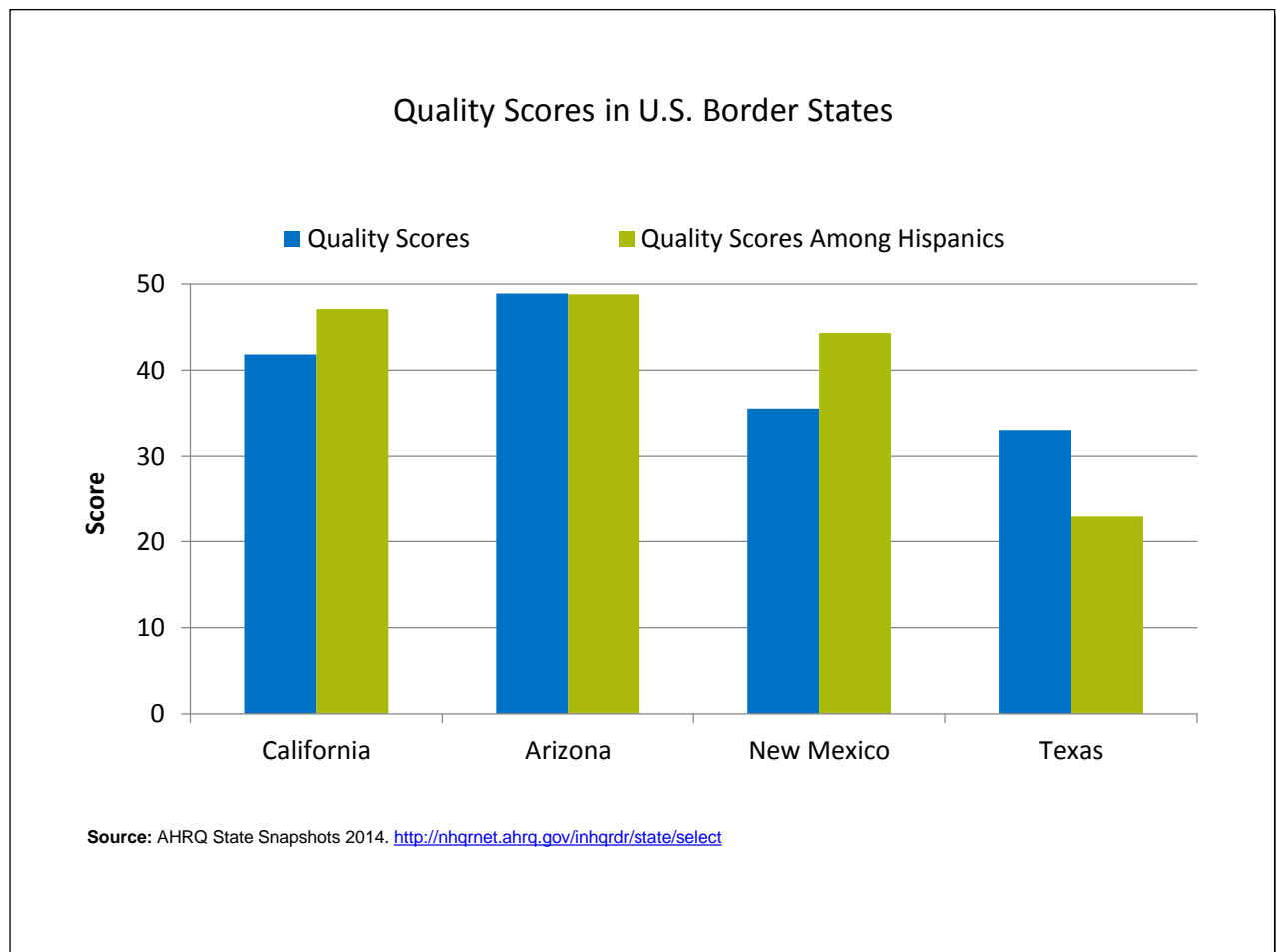
Border Health Priorities

- Border health priorities include:
 - Access to health care,
 - Cancer,
 - Environmental health,
 - HIV/AIDS,
 - Immunizations and infectious diseases,
 - Injury prevention,
 - Maternal and child health,
 - Mental health,
 - Oral health, and
 - Respiratory diseases.

- Source: <http://www.globalhealth.gov/world-regions/americas/us-mexico-border-health/>, http://www.borderhealth.org/healthy_border.php?curr=bhc_initiatives

Health Care Quality in Border States

Quality Scores



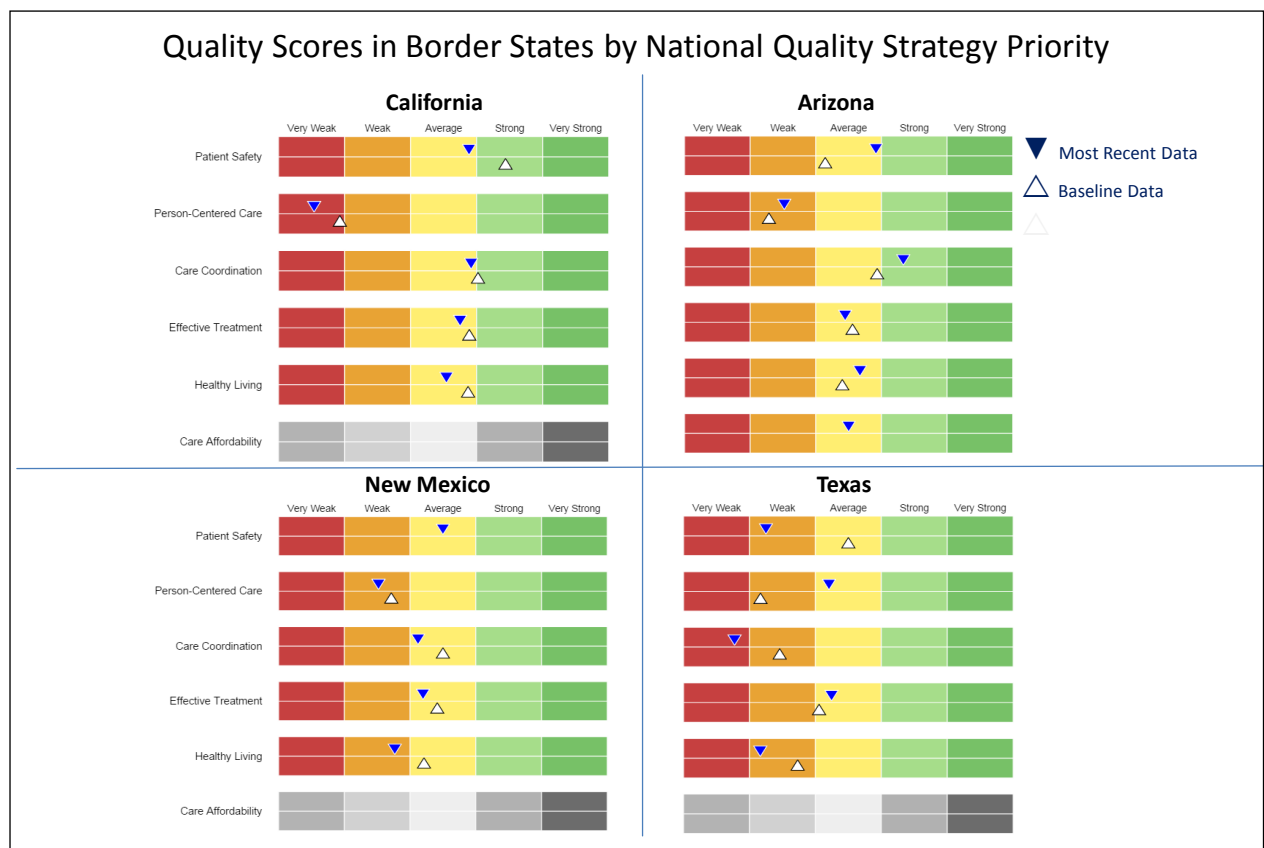
• **Methods:**

- An overall quality score is computed for each State based on the number of quality measures that are above, at, or below the average across all States; the median score is typically around 50. A quality score for Hispanics is computed in a similar manner but only using data for Hispanics. See State Snapshots at <http://nhqrnet.ahrq.gov/inhqrdr/state/select> for more detailed methods.

• **Geographic Variation:**

- There was significant variation in overall quality among U.S. States on the border. Arizona and California are close to the median while New Mexico and Texas are far from the median, ranking 48 and 49, respectively, out of the 50 States and the District of Columbia.
- In terms of quality of care received by Hispanics, there was also significant variation among U.S. States on the border. Arizona, California, and New Mexico are close to the median while Texas ranks last out of the 50 States and the District of Columbia.
- The State Snapshots tool (<http://nhqrnet.ahrq.gov/inhqrdr/state/select>), part of the QDR Web site, focuses on variation across States and helps State health leaders, researchers, and consumers understand the status of health care in individual States and the District of Columbia. It is based on more than 100 QDR measures for which State estimates are possible.

Quality Scores by National Quality Strategy Priority



Source: AHRQ State Snapshots 2014. <http://nhqrnet.ahrq.gov/inhqrdr/state/select>.

Geographic Variation:

- Border States vary in the quality of care delivered in different priority areas of the National Quality Strategy. An overall quality score is computed for each State based on the number of quality measures that are above, at, or below the average across all States; the median score is typically around 50 and is shown as the middle of the yellow band above.
- California, Arizona, and New Mexico are weak in person-centered care. New Mexico and Texas are weak in healthy living. Texas is also weak in patient safety and care coordination. Data are limited for assessing care affordability in most States.
- Arizona is strong in care coordination.

Quality Scores by Condition



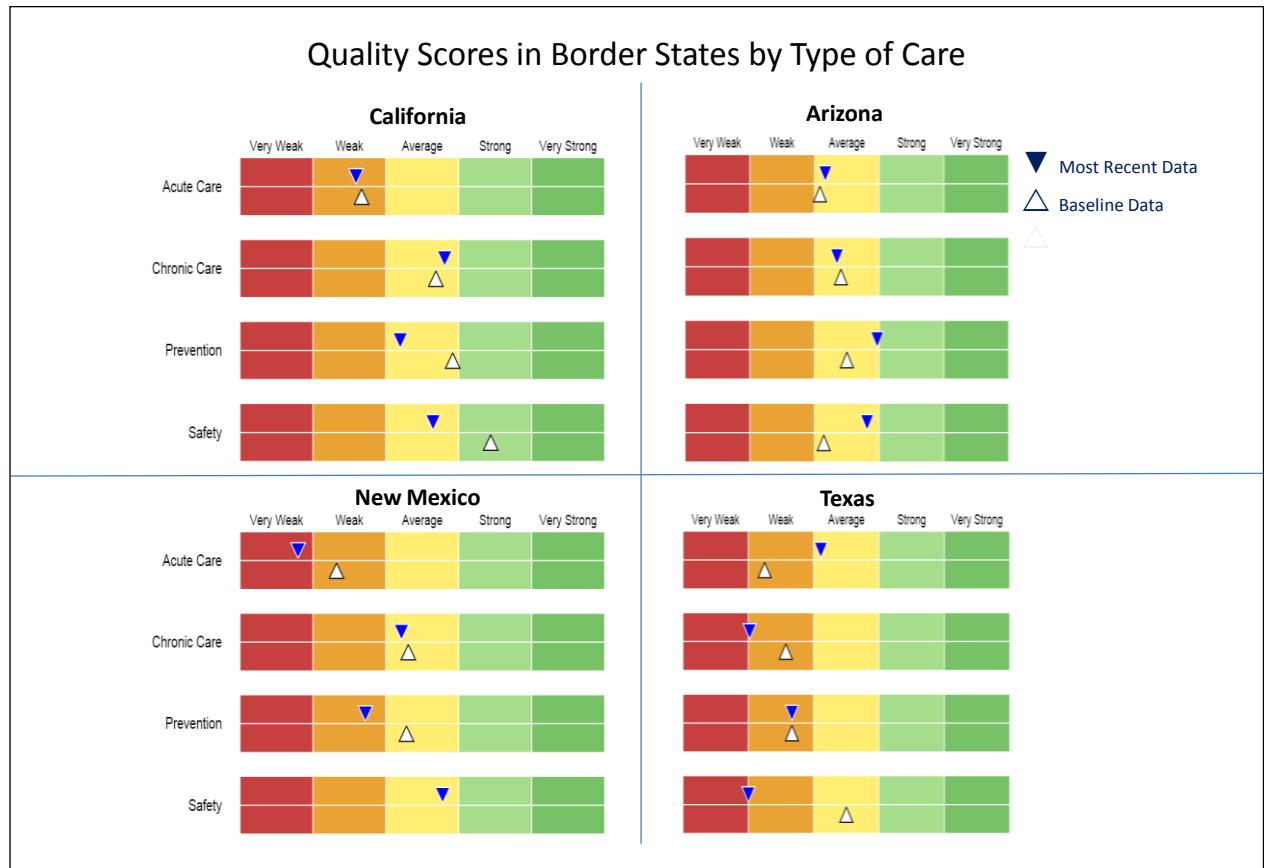
Source: AHRQ State Snapshots 2014. <http://nhqrnet.ahrq.gov/inhqrdr/state/select>.

Geographic Variation:

- Border States vary in the quality of care delivered for different conditions. An overall quality score is computed for each State based on the number of quality measures that are above, at, or below the average across all States; the median score is typically around 50 and is shown as the middle of the yellow band above.

- California is weak in care for chronic kidney disease. Arizona and Texas are weak in care for diabetes. Arizona and New Mexico are weak in care for mental health and substance abuse. New Mexico and Texas are weak in care for cardiovascular disease. Texas is also weak in care for HIV and AIDS.
- California, Arizona, and Texas are strong in care for cancer. Arizona and New Mexico are strong in care for HIV and AIDS. Arizona and Texas are strong in care for chronic kidney disease. Arizona is also strong in care for cardiovascular disease.

Quality Scores by Type of Care



Source: AHRQ State Snapshots 2014. <http://nhqrnet.ahrq.gov/inhqrdr/state/select>.

● **Geographic Variation:**

- Border States vary in the quality of different types of care delivered. An overall quality score is computed for each State based on the number of quality measures that are above, at, or below the average across all States; the median score is typically around 50 and is shown as the middle of the yellow band above.
- California and New Mexico are weak in acute care. New Mexico and Texas are weak in prevention. Texas is also weak in chronic care and safety.

Hospital Care on the U.S.-Mexico Border

- While many of the data sources used in the QDR can provide State estimates, most cannot provide estimates at the substate level.
- In this section, we present findings from hospital data from U.S. states that can drill down to the county level. In future, we hope to identify and include data sources that can provide county estimates for care delivered in other settings.
- We also include links to some successful quality improvement interventions from the AHRQ Health Care Innovations Exchange (<https://innovations.ahrq.gov/>) that involved sites on the border.

Purpose

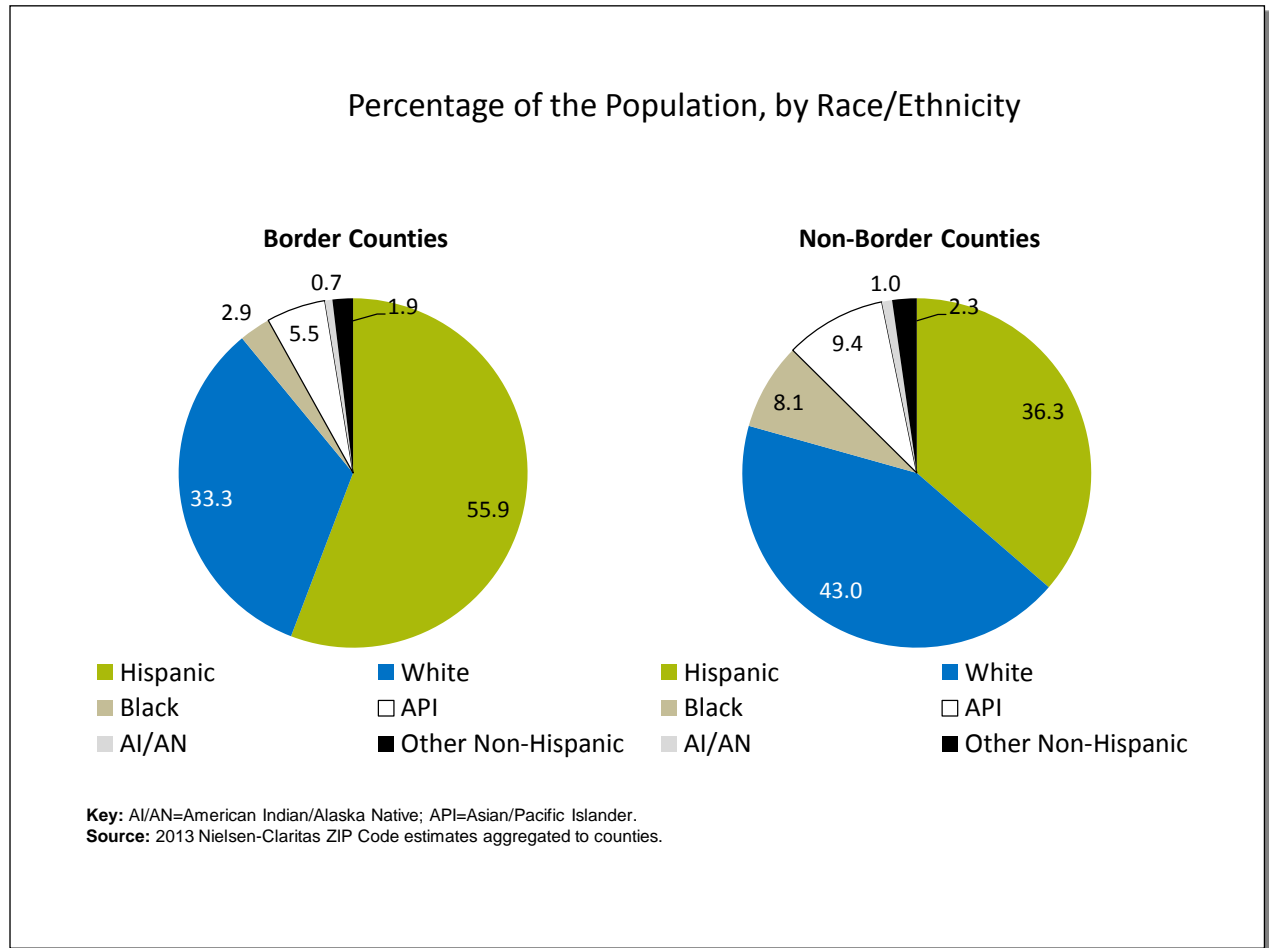
- Compare hospital services in counties along the U.S.-Mexico border to non-border U.S. counties in the four border States
 - AZ, CA, NM, TX
- Focus on priority conditions identified by the U.S.-Mexico Border Commission
- Report results by ethnicity

Data Source

- Discharge counts
 - Healthcare Cost and Utilization Project
 - ◆ 2013 State Inpatient Databases for four States: Arizona, California, New Mexico, and Texas
 - Border counties within 60 miles of Mexico
 - Discharges grouped by the county of the hospital
 - Limited to community hospitals, excluding rehabilitation hospitals
 - Included all patients treated in those hospitals, including foreign and out-of-state patients
- Population denominators
 - Residents of border and non-border counties
 - Nielsen demographic data

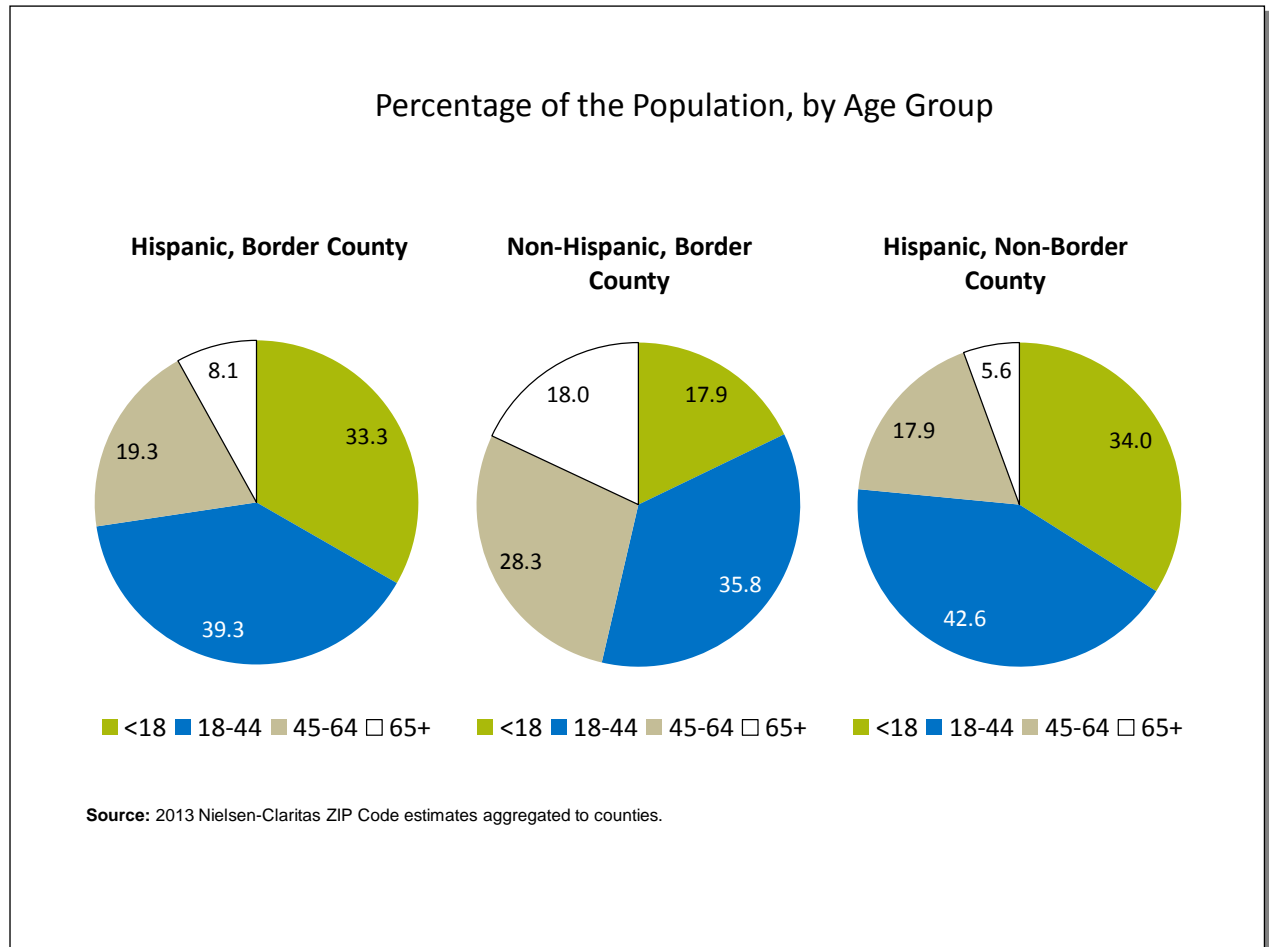
Population Characteristics

Distribution by Race/Ethnicity



- In border counties, 56% of the population was Hispanic, compared with only 36% in non-border counties.

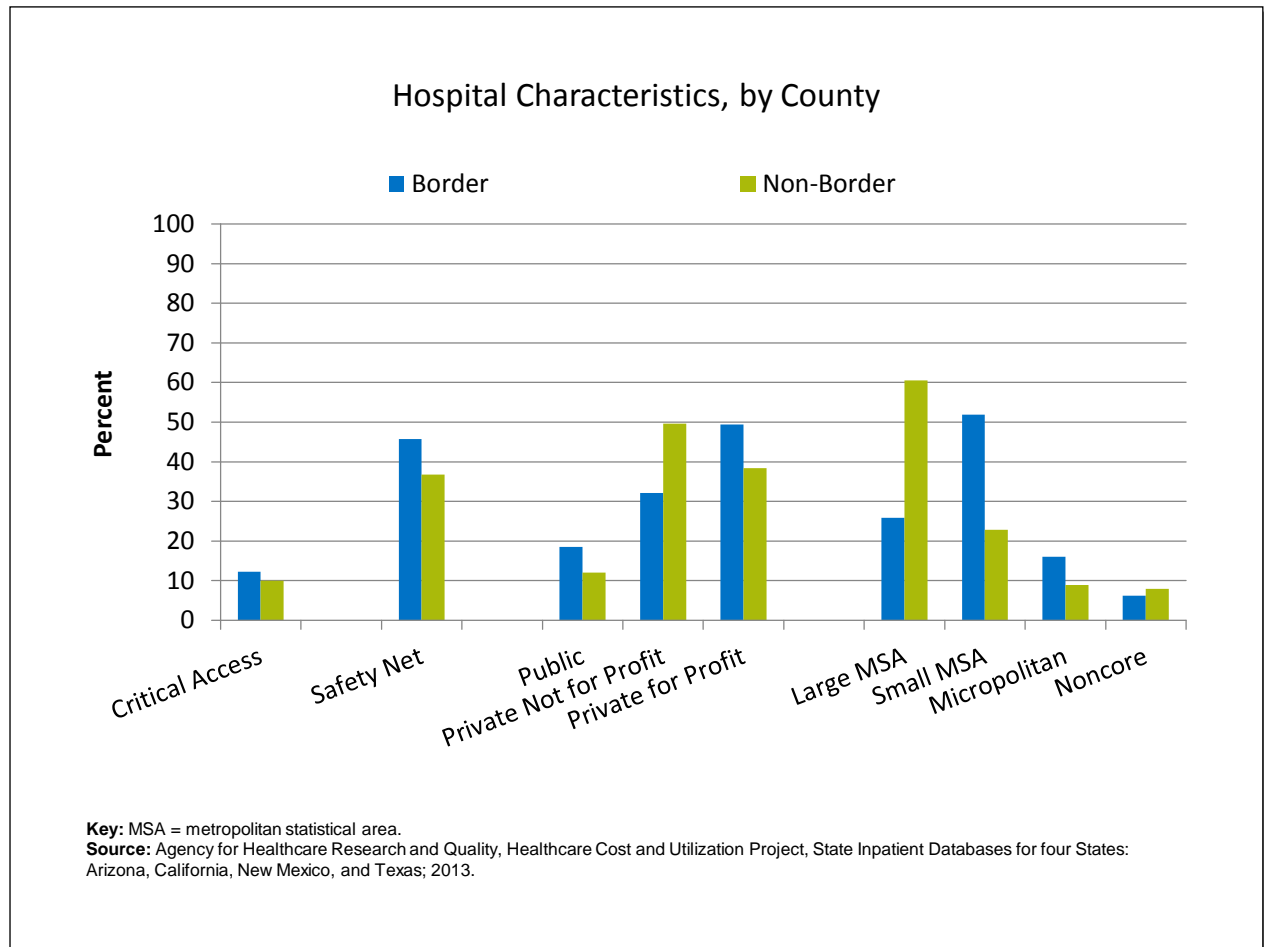
Distribution by Age



- The age distribution of Hispanics in border and non-border counties was similar. However, non-Hispanics in border counties were older—nearly half were age 45 and over.

Characteristics of Inpatient Hospital Stays

Hospital Characteristics



- This analysis included 81 hospitals located in border counties and 789 hospitals located in the non-border counties of Arizona, California, New Mexico, and Texas.
- Compared with non-border hospitals, border hospitals were more likely to be:
 - Safety net facilities.
 - Public or private for profit.
 - Located in small metropolitan or micropolitan areas.

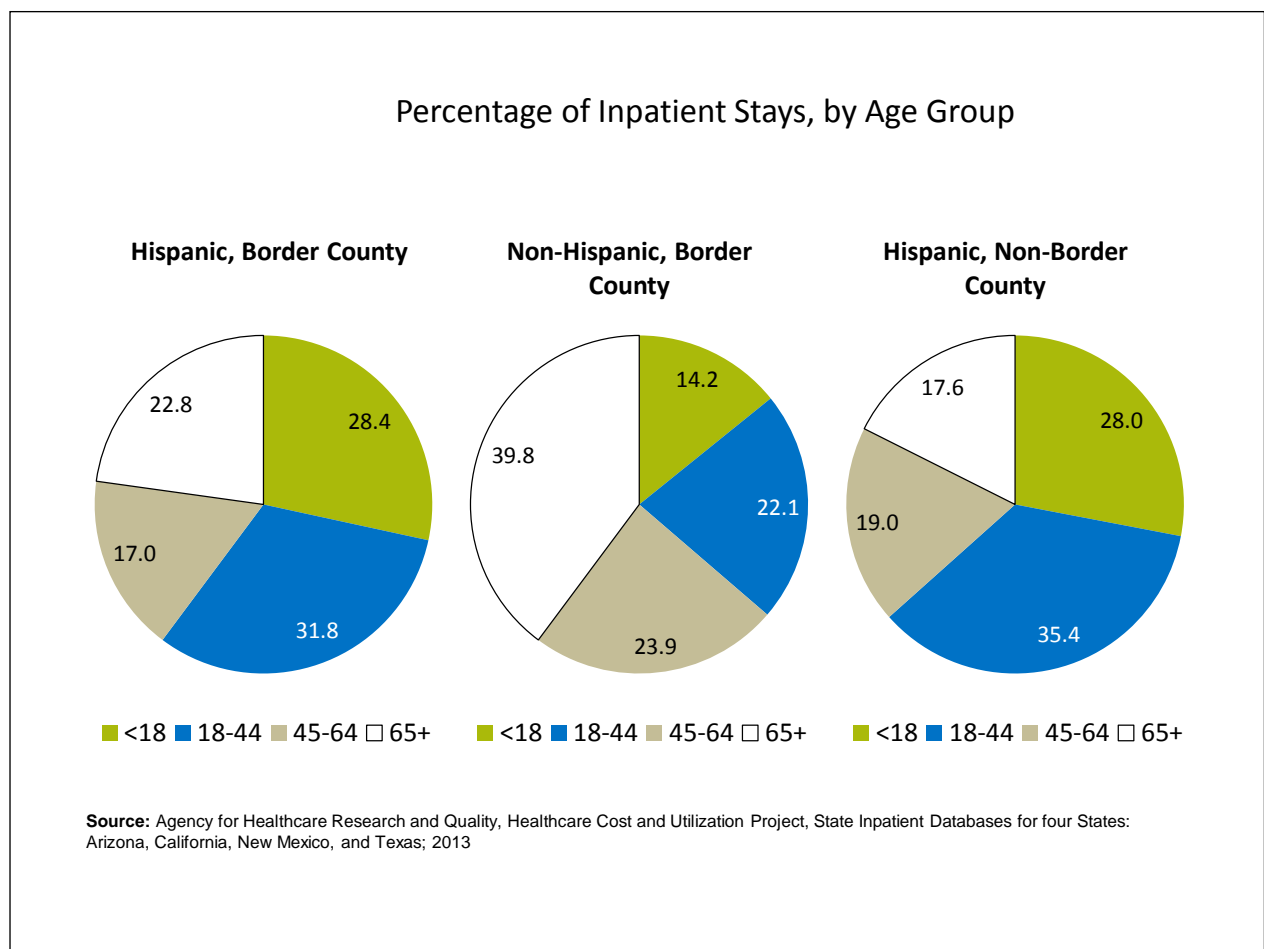
Number of Inpatient Stays by County of Residence

Patient's County of Residence	Hospital County			
	Border County (N=800,797; 11%)		Non-Border County (N=6,499,597; 89%)	
	N	%	N	%
Border county in 4 study States	753,944	94.1	37,299	0.6
Non-border county in 4 study States	24,818	3.1	6,352,997	97.7
Mexico	6,303	0.8	939	0.0
Other U.S. States	8,223	1.0	82,030	1.3
Missing	7,509	0.9	26,332	0.4

Source: Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project, State Inpatient Databases for four States: Arizona, California, New Mexico, and Texas; 2013.

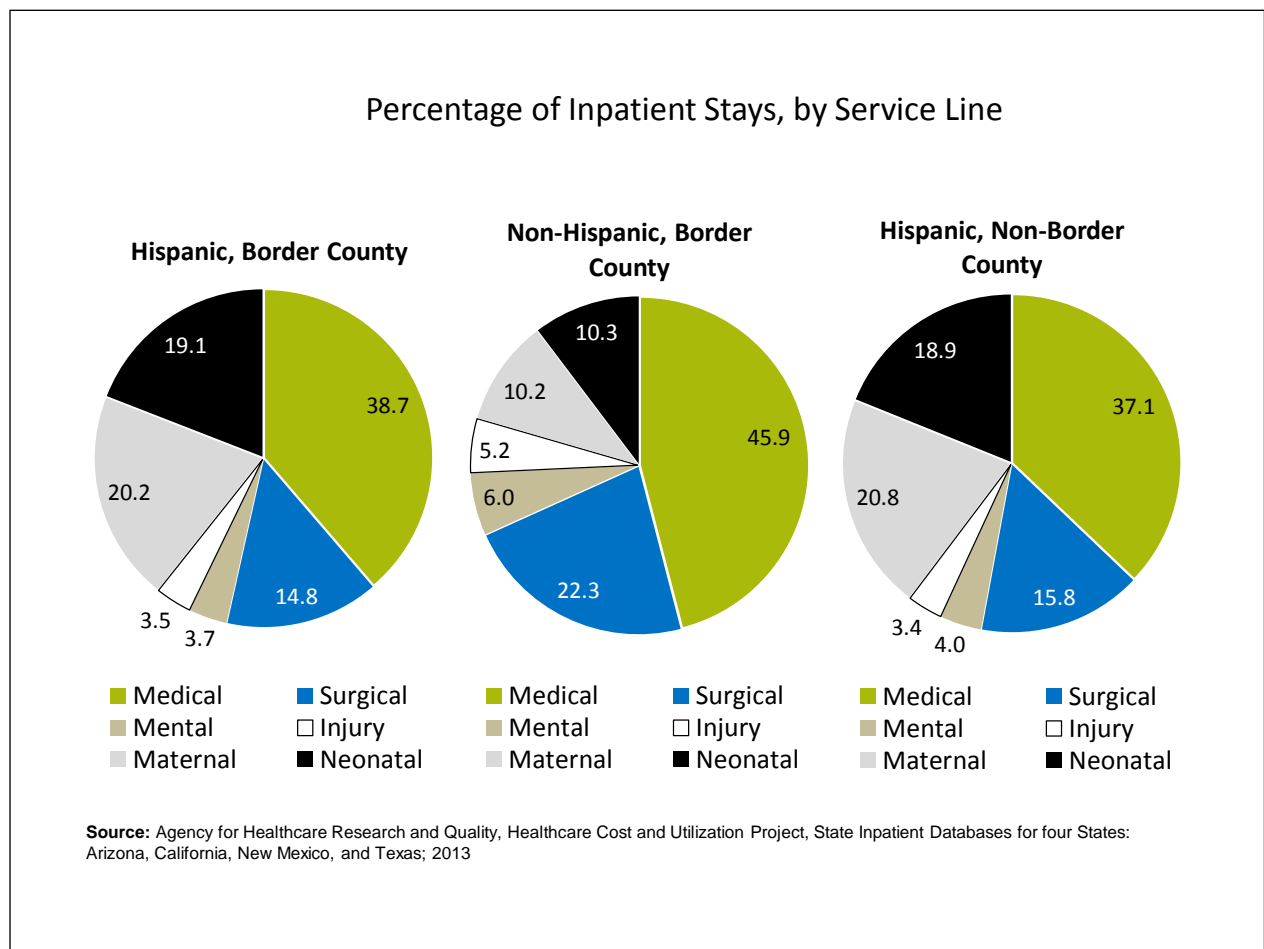
Note: Presented analysis is based on the hospital county.

Distribution by Age



- The age distribution of Hispanic inpatient stays in border and non-border counties was similar. However, non-Hispanics with an inpatient stay in border counties were older—64% were age 45 and over.

Distribution by Service Line



- In both border and non-border counties, 40% of Hispanic inpatient stays were maternal/neonatal.
- In comparison, only 20% of non-Hispanic stays in border counties were maternal/neonatal.

Priority Areas Identified by the U.S.-Mexico Border Commission

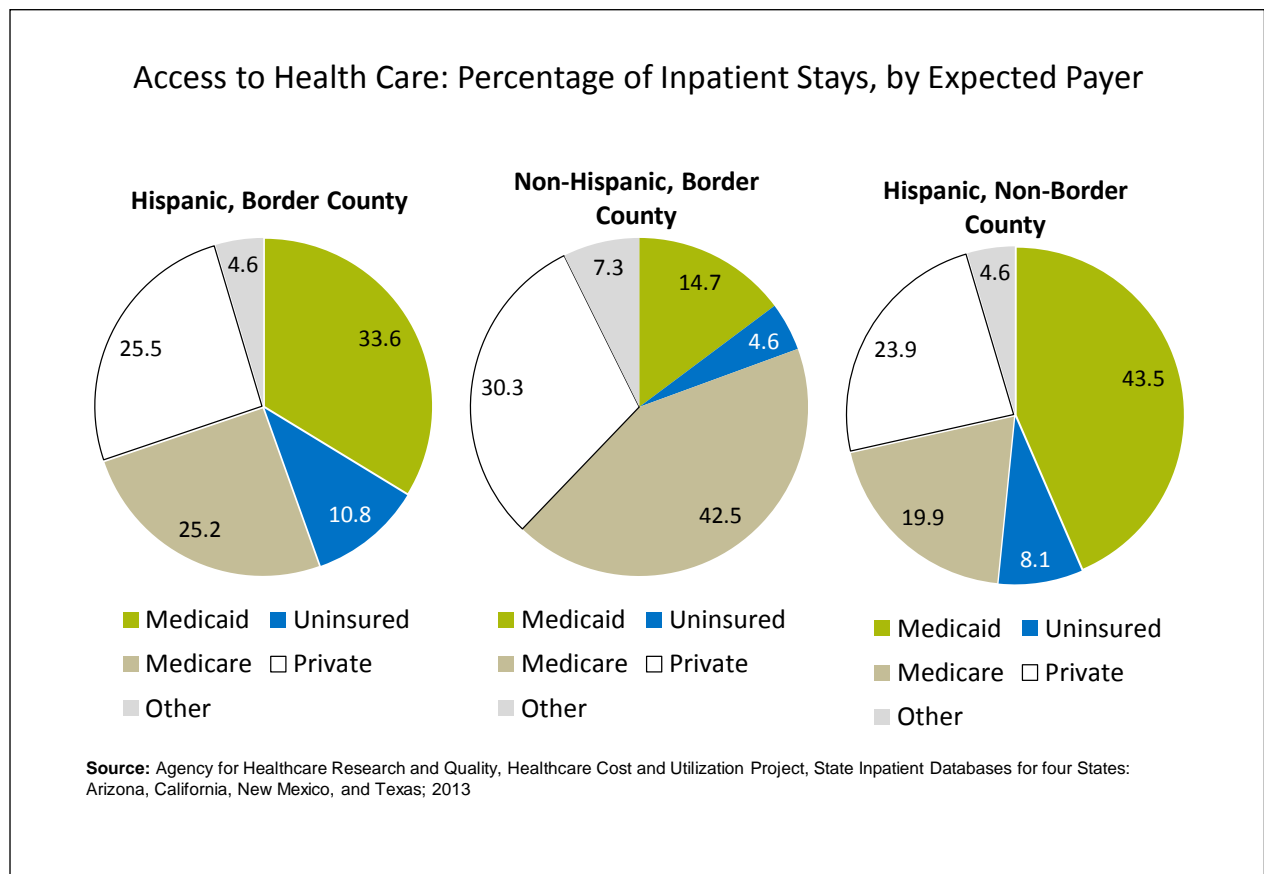
Priority areas identified by Healthy Border 2010/2020 (http://www.borderhealth.org/healthy_border.php?curr=bhc_initiatives). Those in bold are areas for which we provide data.

- **Access to Health Care** – ensuring access to primary care or basic health care services
- **Cancer** – reducing breast cancer and cervical cancer mortality
- **Diabetes** – reducing both the mortality rate of diabetes and the need for hospitalization
- Environmental Health – improving household access to sewage disposal and reducing hospital admissions for acute pesticide poisoning
- **HIV/AIDS** - reducing the incidence of HIV/AIDS
- Immunization and Infectious Diseases – expanding immunization coverage for young children, as well as reducing the incidence of hepatitis and tuberculosis

- **Injury Prevention** – reducing mortality from motor vehicle crashes as well as childhood mortality from injuries
- **Maternal, Infant, and Child Health** – reducing infant mortality due to congenital defects, improving prenatal care, and reducing teenage pregnancy rates
- **Mental Health** – reducing suicide mortality
- **Oral Health** – improving access to oral health care
- **Respiratory Diseases** – reducing the rate of hospitalization for asthma

Access to Health Care

Distribution of Inpatient Stays by Payer



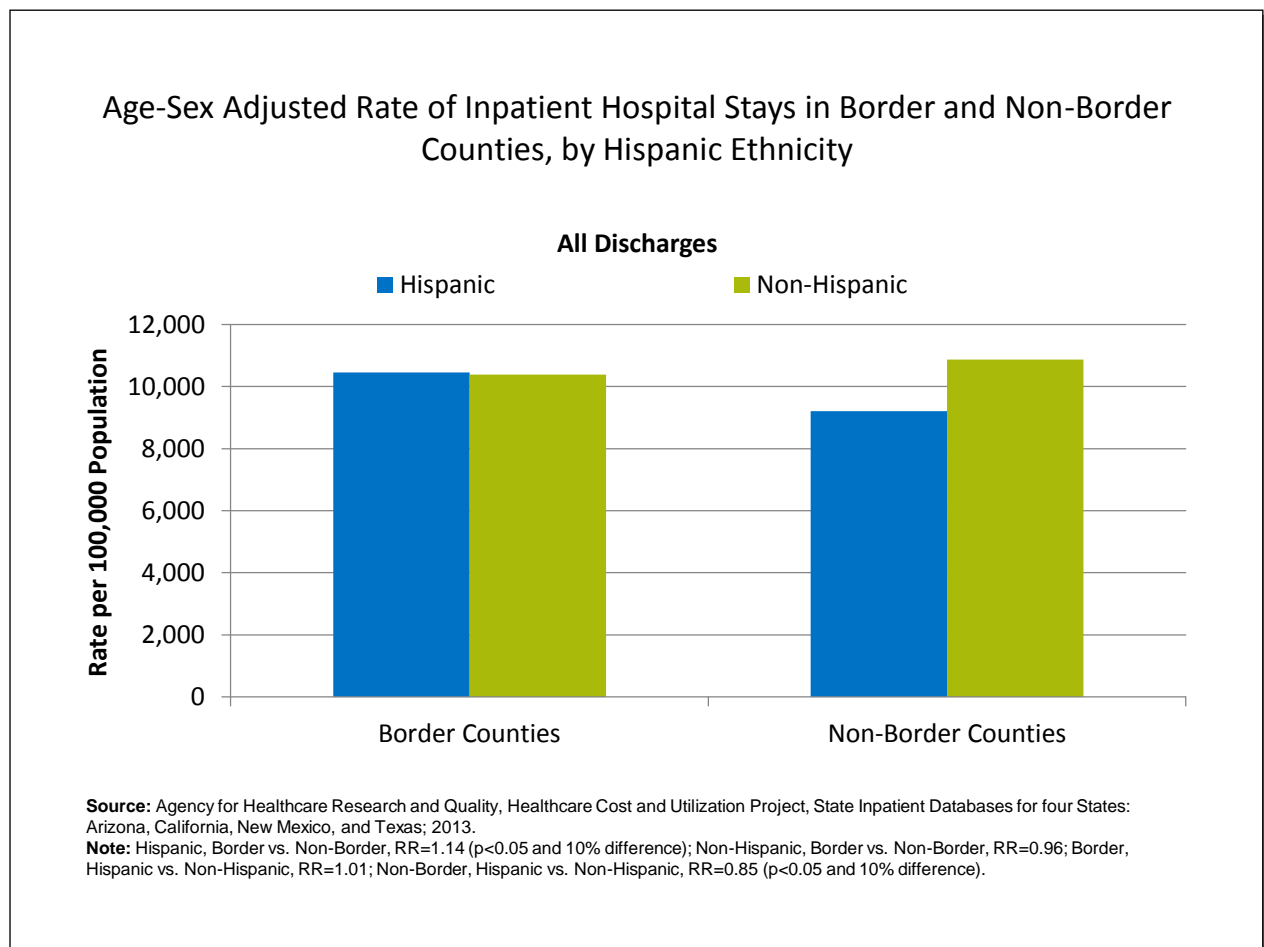
- Access to health care varies by ethnicity and geographic location.
- Almost 11% of Hispanic inpatient stays in border counties were not covered by insurance, compared with:
 - 4.6% of non-Hispanic stays in border counties.
 - 8.1% of Hispanic stays in non-border counties.
- One-third of Hispanic inpatient stays in border counties were paid by Medicaid, compared with:
 - Only 15% of non-Hispanic stays in border counties.
 - About 44% of Hispanic stays in non-border counties.

AHRQ Health Care Innovations on the Border

Salud Para Todos

- Location: Yuma County, Arizona
- Population: Mexican farm workers
- Intervention: Partnership between a health clinic system and a community organization, to coordinate outreach workers, known as promotoras, who help participants navigate the health care system and improve their health.
- Outcomes: Participants increased physical activity, improved dietary habits, and had higher satisfaction with their health care.

Age-Sex Adjusted Rate of Hospital Stays, by Ethnicity



- Among Hispanics, the rate of stays was 1.14 times as high in border counties compared with non-border counties.
- In non-border counties, Hispanics had lower rates of stays than non-Hispanics.

Population-Based Rates of Inpatient Hospital Stays by Service Line

Rates of Inpatient Hospital Stays in Border vs. Non-Border Counties and Among Hispanics vs. Non-Hispanics, by Service Line

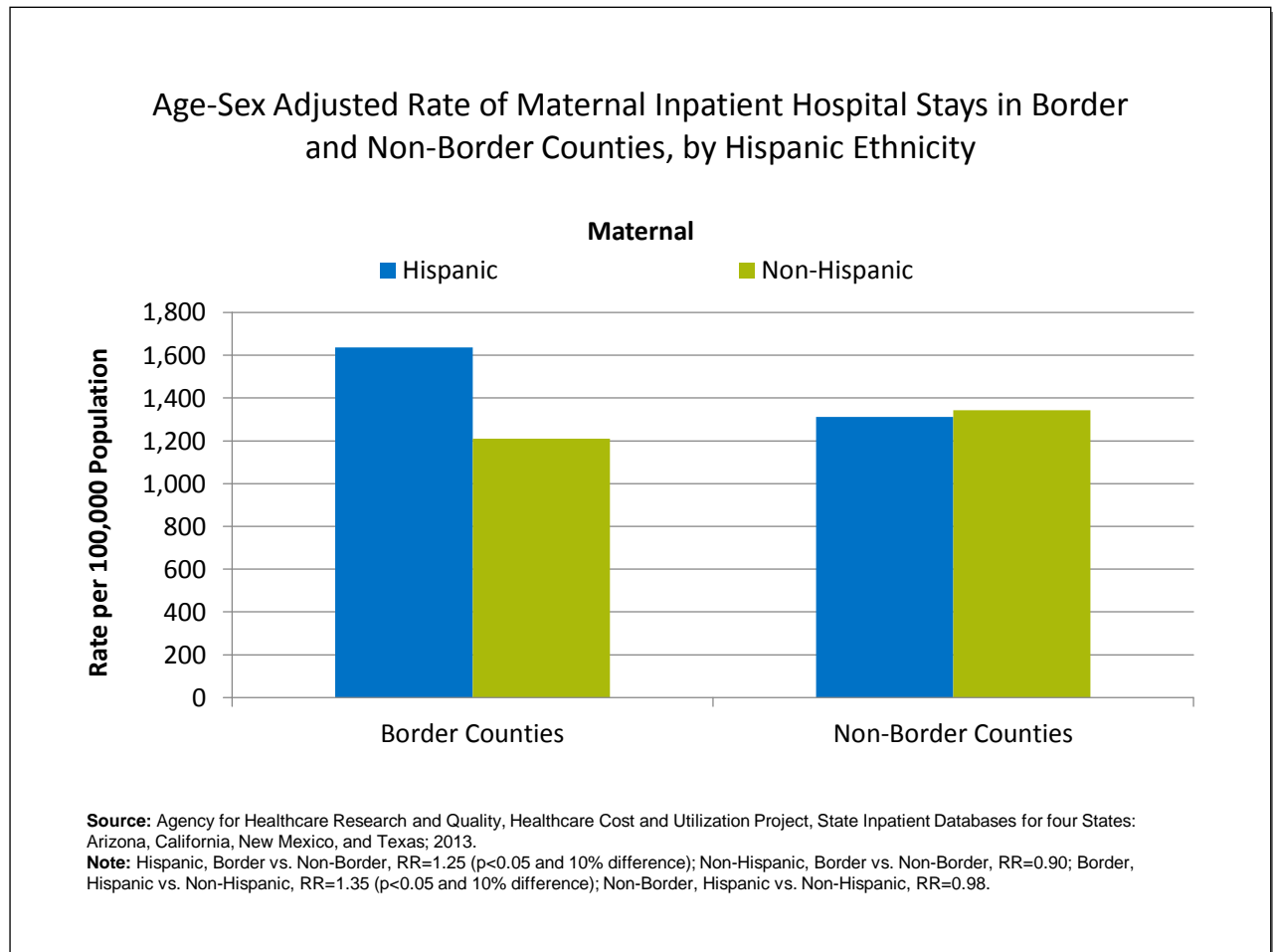
Service Line	Ratio of Age-Sex Adjusted Rate of Hospitalization			
	Hispanics vs. Non-Hispanics		Border vs. Non-Border Counties	
	Border Counties	Non-Border Counties	Hispanics	Non-Hispanics
Maternal	1.35	0.98	1.25	0.90
Neonatal	0.83	0.62	1.36	1.00
Mental health/substance abuse	0.73	0.79	1.05	1.14
Injury	0.63	0.62	1.19	1.18
Surgical	0.85	0.81	1.04	0.98
Medical	1.14	0.93	1.10	0.90

Source: Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project, State Inpatient Databases for four States: Arizona, California, New Mexico, and Texas; 2013.

Note: Shaded cells represent statistically significant differences ($p < .05$) of 10% or greater.

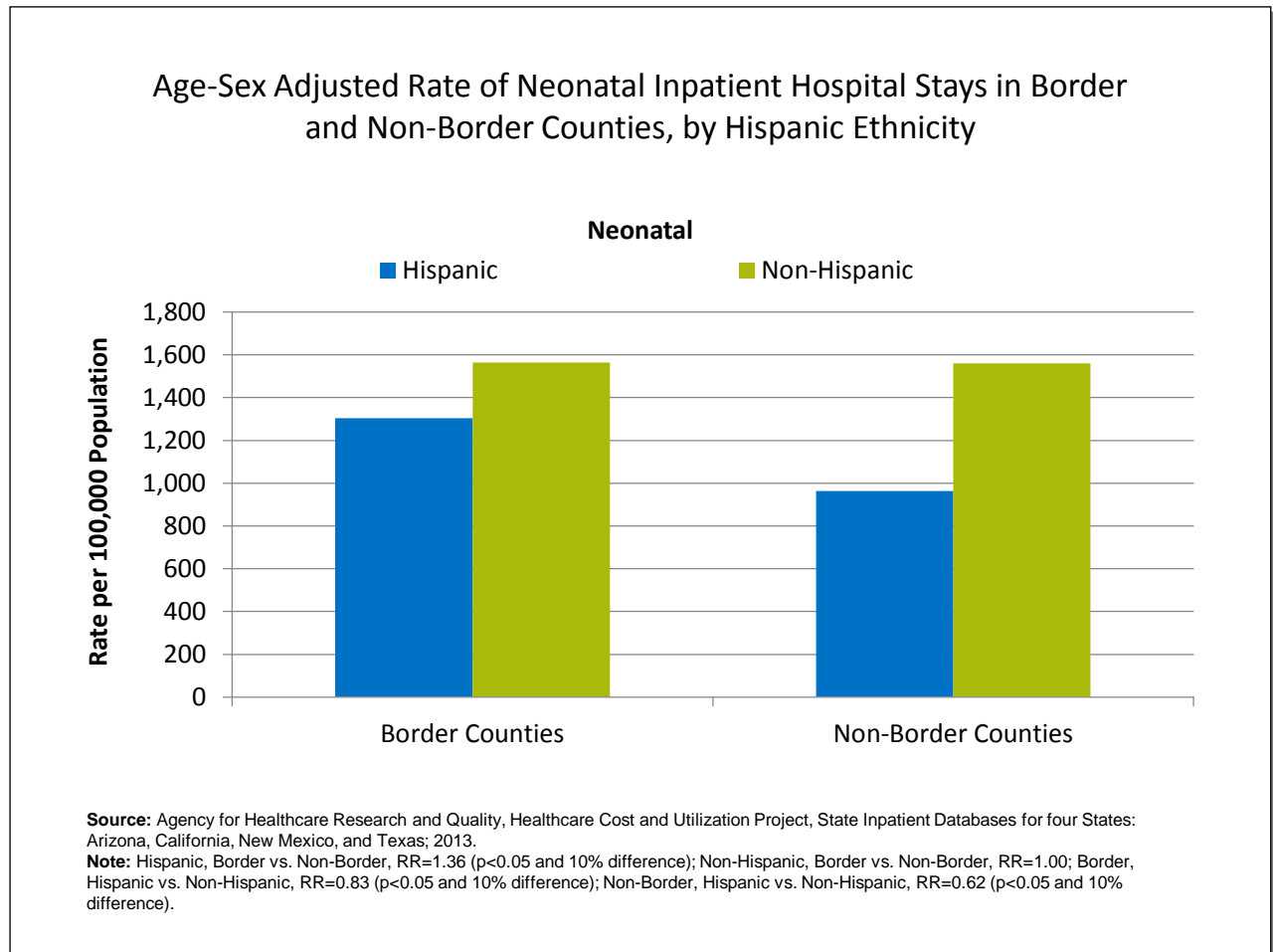
- Hispanics generally had lower rates of hospitalization than non-Hispanics, except in the medical and maternal service lines, in both border and non-border counties.
- Compared with Hispanics in non-border counties, Hispanics in border counties had higher rates of hospitalization in the injury, maternal, and neonatal service lines.
- Service lines are shown in the order they are assigned—every discharge is assigned to a hospital service line hierarchically, based on the following order: maternal and neonatal, mental health, injury, surgical, and medical. Classification for maternal and neonatal, mental health, and injury are based on the International Classification of Diseases (ICD-9-CM) principal diagnosis codes or Clinical Classifications Software (CCS). Surgical and medical splits are based on the diagnosis-related groups (DRGs). The discharge is assigned to medical if the DRG indicates ungroupable.

Age-Sex Adjusted Rate of Maternal Inpatient Stays, by Ethnicity



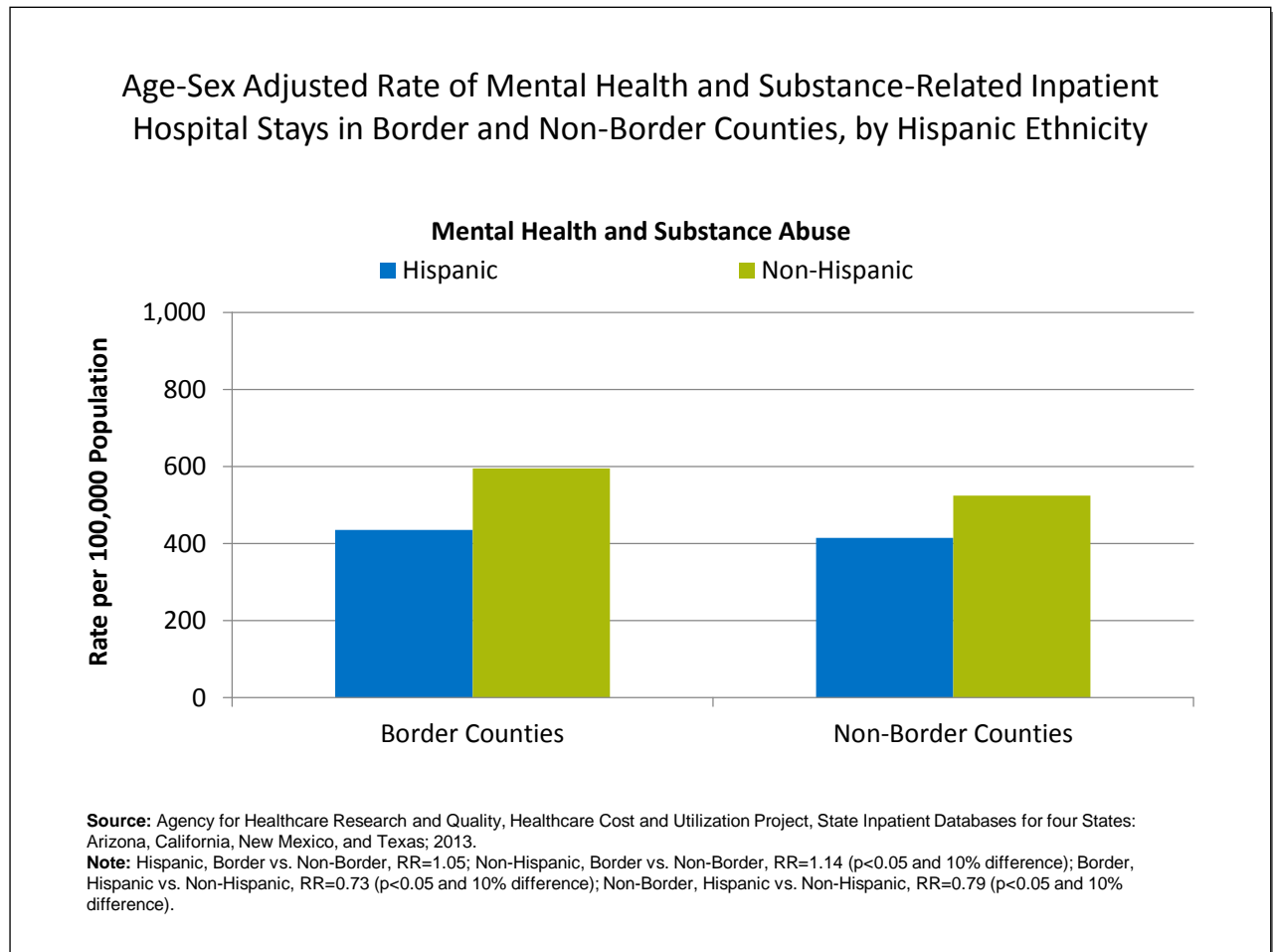
- Hispanics in border counties had higher rates of maternal stays compared with both:
 - Hispanics in non-border counties and
 - Non-Hispanics in border counties.

Age-Sex Adjusted Rate of Neonatal Inpatient Stays, by Ethnicity



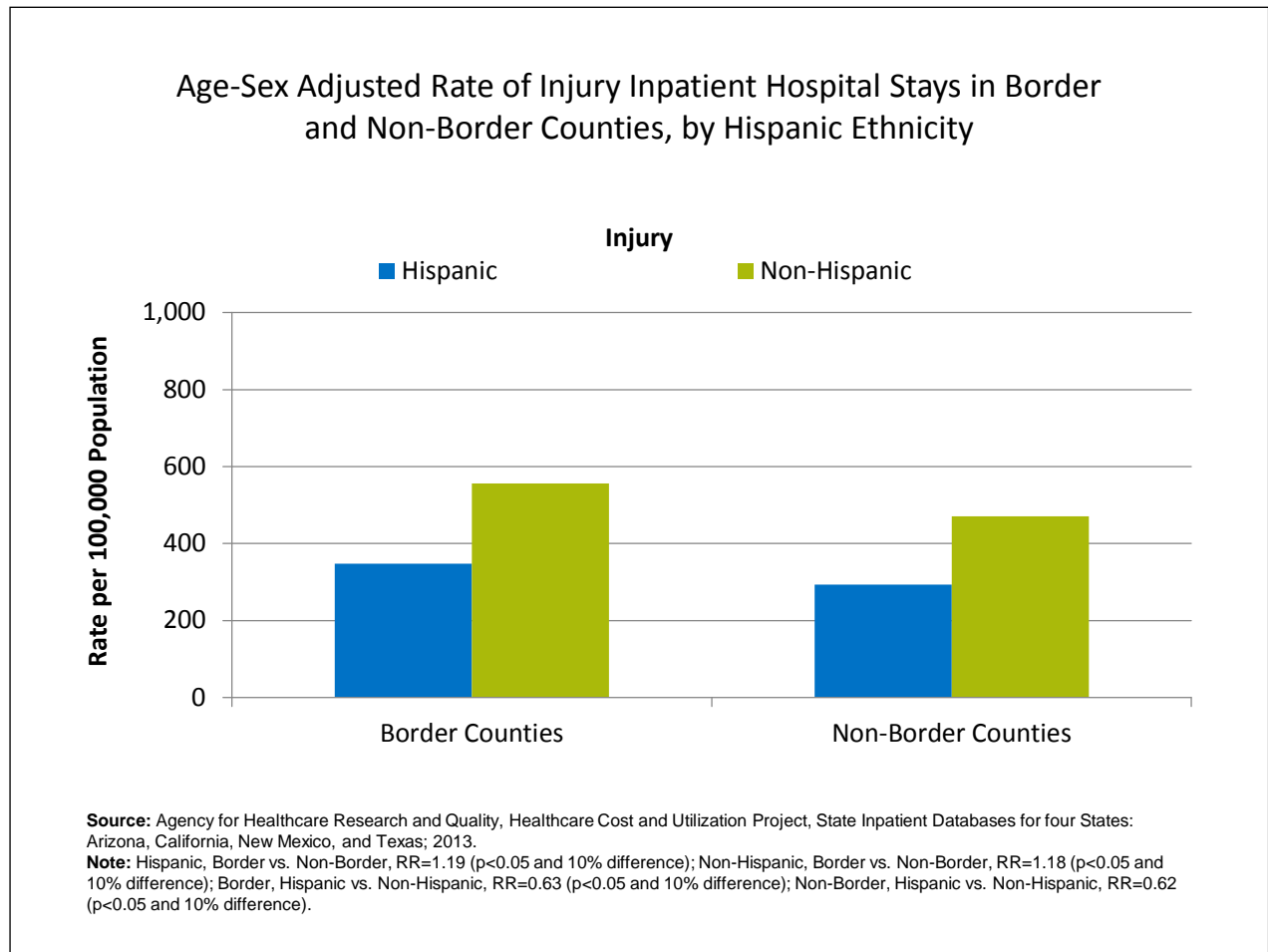
- Among Hispanics, the rate of neonatal stays was higher in border counties than in non-border counties.
- Hispanics had lower rates of neonatal stays than non-Hispanics, both in border and non-border counties.

Age-Sex Adjusted Rate of Mental Health and Substance-Related Inpatient Stays, by Ethnicity



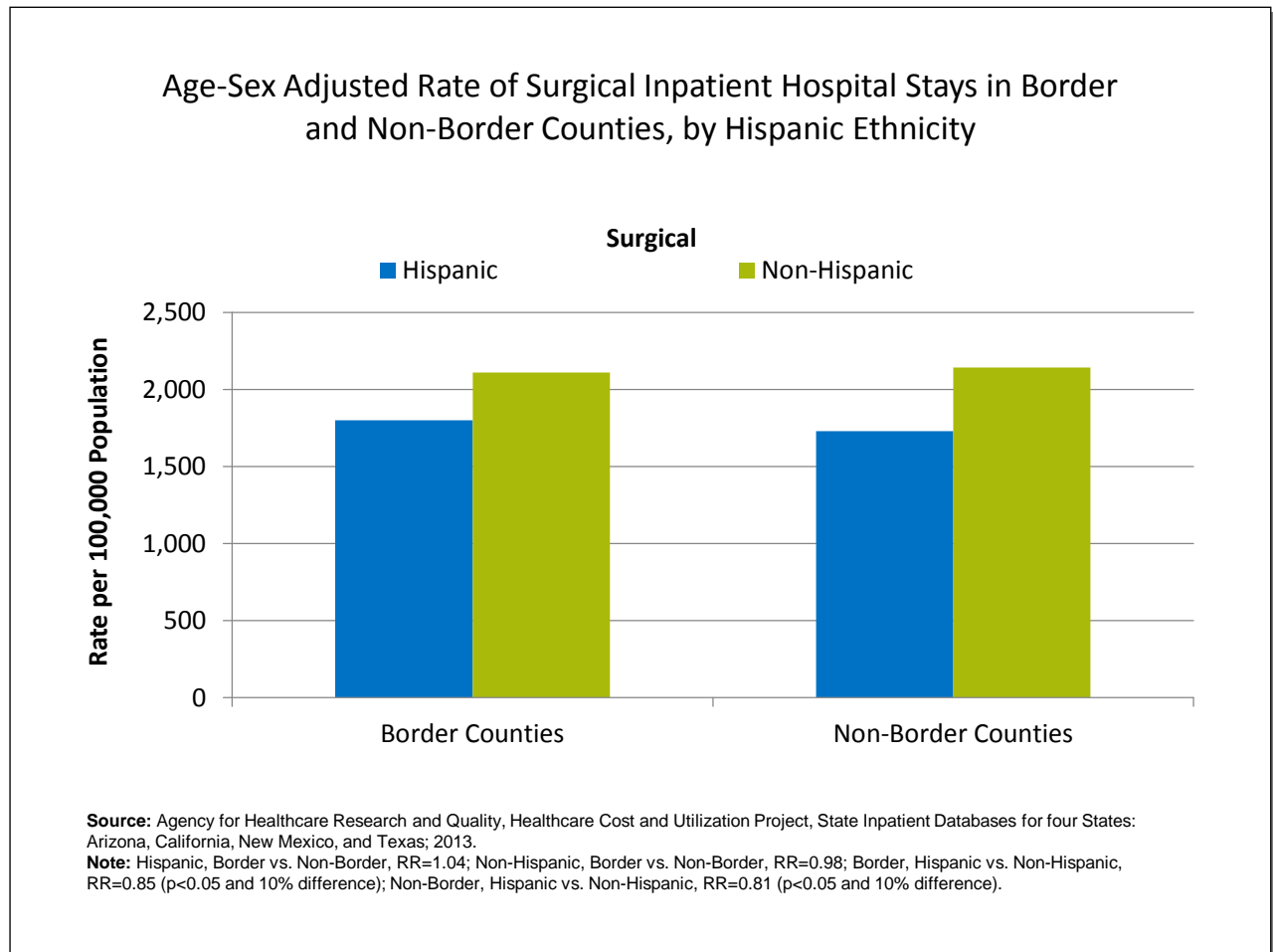
- Hispanics had lower rates of mental health and substance-related stays than non-Hispanics, both in border and non-border counties.
- Among non-Hispanics, those in border counties had higher rates of mental health and substance-related stays than non-Hispanics in non-border counties.

Age-Sex Adjusted Rate of Injury Inpatient Stays, by Ethnicity



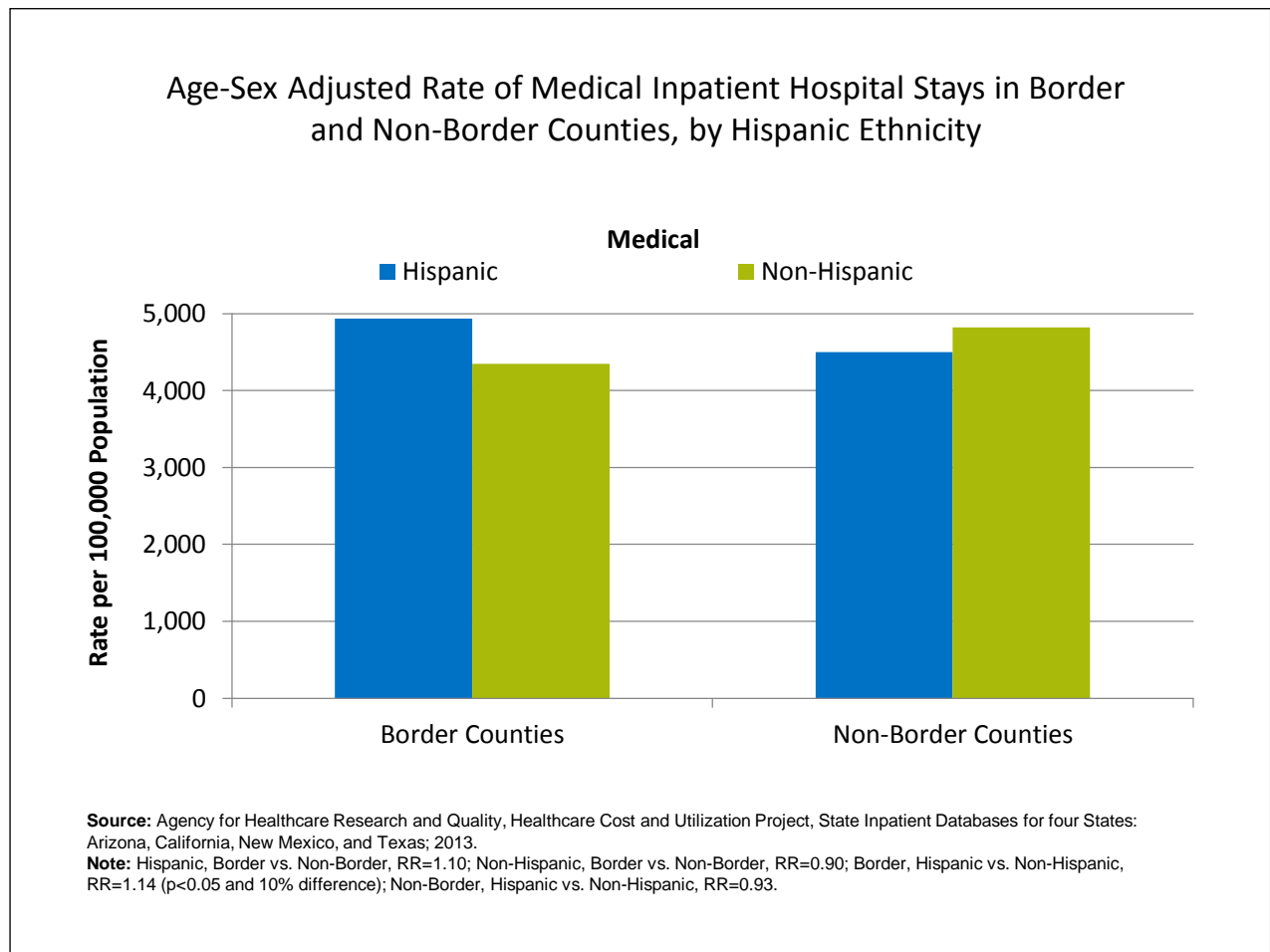
- Rates of injury stays were higher in border than non-border counties, both for Hispanics and non-Hispanics.
- Rates of injury stays were lower among Hispanics than non-Hispanics, both in border and non-border counties.

Age-Sex Adjusted Rate of Surgical Inpatient Stays, by Ethnicity



- Hispanics had lower rates of surgical stays, both in border and non-border counties.

Age-Sex Adjusted Rate of Medical Inpatient Stays, by Ethnicity



- In border counties, Hispanics had higher rates of medical stays than non-Hispanics.

Population-Based Rates of Inpatient Hospital Stays for Select Conditions

Rates of Inpatient Hospital Stays in Border vs. Non-Border Counties and Among Hispanics vs. Non-Hispanics, by Condition

Condition Identified as Priority Area by U.S.-Mexico Border Commission	Ratio of Age-Sex Adjusted Rate of Hospitalization			
	Hispanics vs. Non-Hispanics		Border vs. Non-Border Counties	
	Border Counties	Non-Border	Hispanics	Non-Hispanics
Cancer*	0.66	0.65	0.94	0.92
Breast cancer	0.58	0.59	0.96	0.97
Cervical cancer	0.90	0.90	0.93	0.93
Chronic Kidney Disease	1.63	1.16	1.12	0.80
Diabetes	1.72	1.32	1.11	0.85
HIV/AIDS	0.80	0.60	1.05	0.79
Obesity, Adults	1.23	0.91	1.17	0.86
Obesity, Children	1.17	1.45	0.98	1.21
Oral Cancer	0.58	0.65	0.81	0.90
Respiratory†	0.85	0.74	1.05	0.92
Asthma	0.61	0.72	0.79	0.94
COPD	0.77	0.59	1.18	0.91

Source: Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project, State Inpatient Databases for four States: Arizona, California, New Mexico, and Texas; 2013.

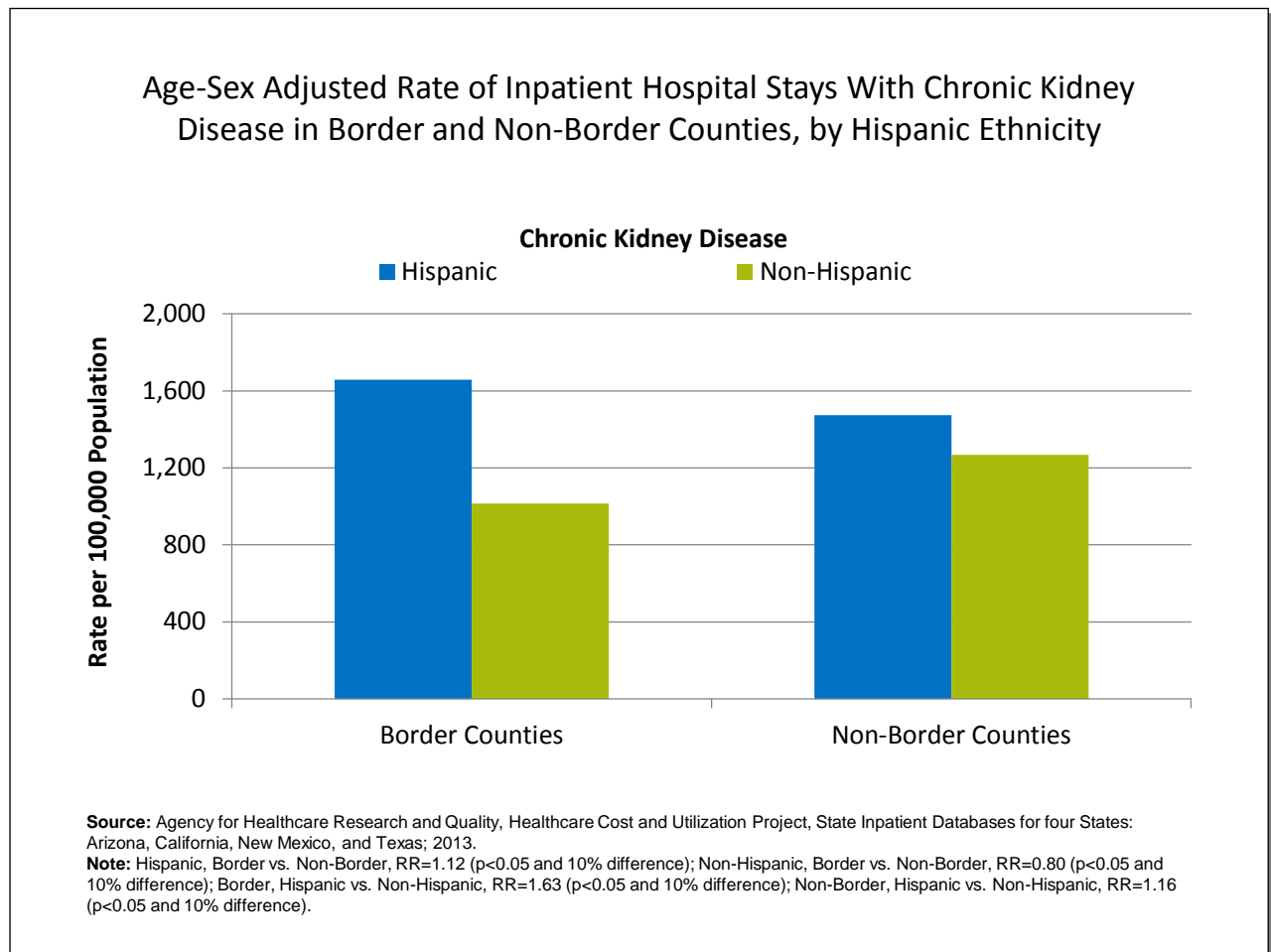
Note: Shaded cells represent statistically significant differences ($p < .05$) of 10% or greater. All rates are per 100,000 population.

*Cancer includes breast, cervical, prostate, and oral cancers.

†Respiratory includes asthma, chronic obstructive pulmonary disease, respiratory failure, and other respiratory diseases (e.g., pneumonia)

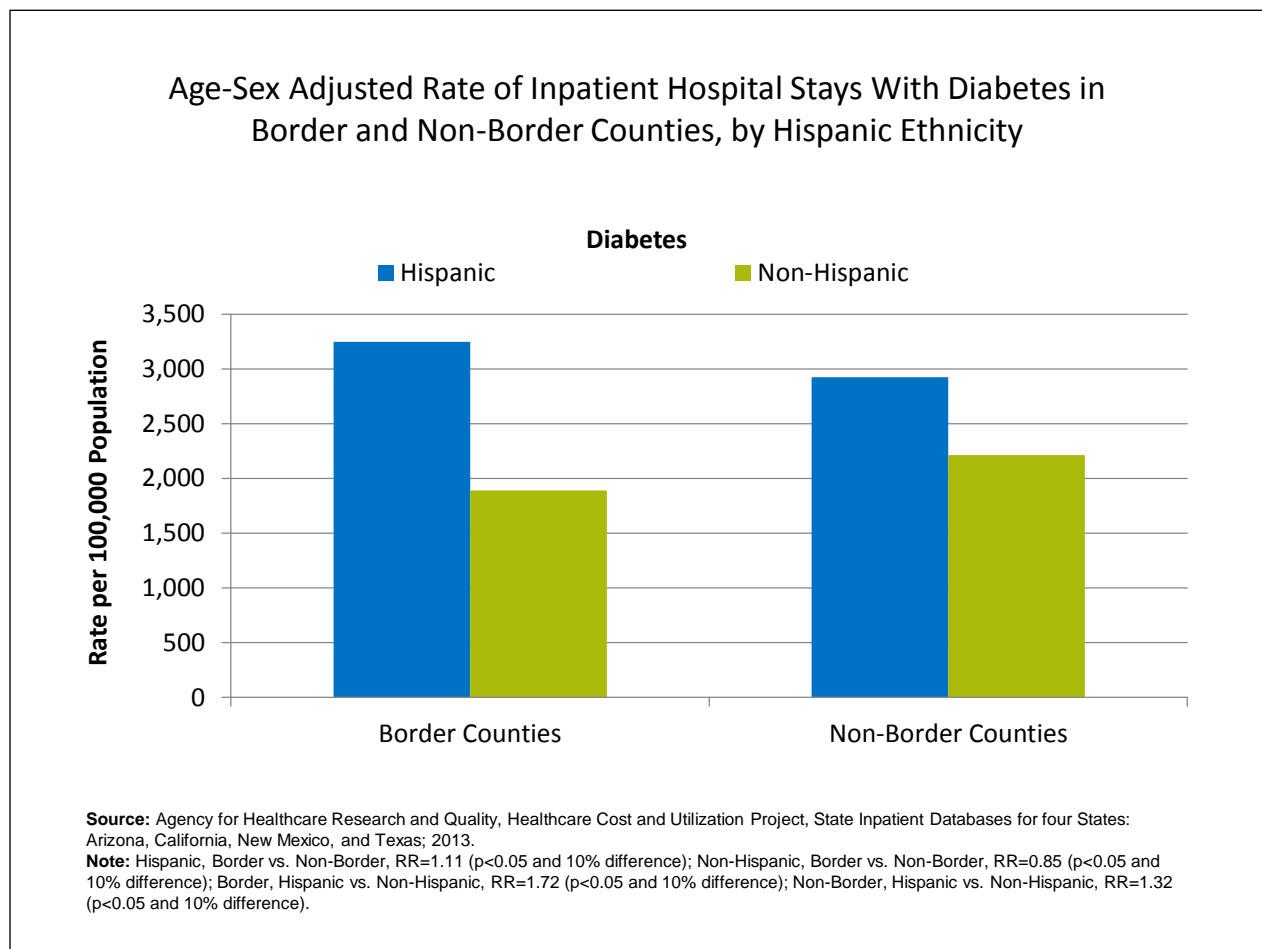
- Generally, Hispanics had lower rates of stays than non-Hispanics across the conditions examined, except for chronic kidney disease, diabetes, and obesity, in both border and non-border counties.
- Among Hispanics, those in border counties had higher rates of stays related to chronic kidney disease, diabetes, obesity, and COPD than those in non-border counties, but lower rates of asthma.

Age-Sex Adjusted Rate of Inpatient Stays With Chronic Kidney Disease, by Ethnicity



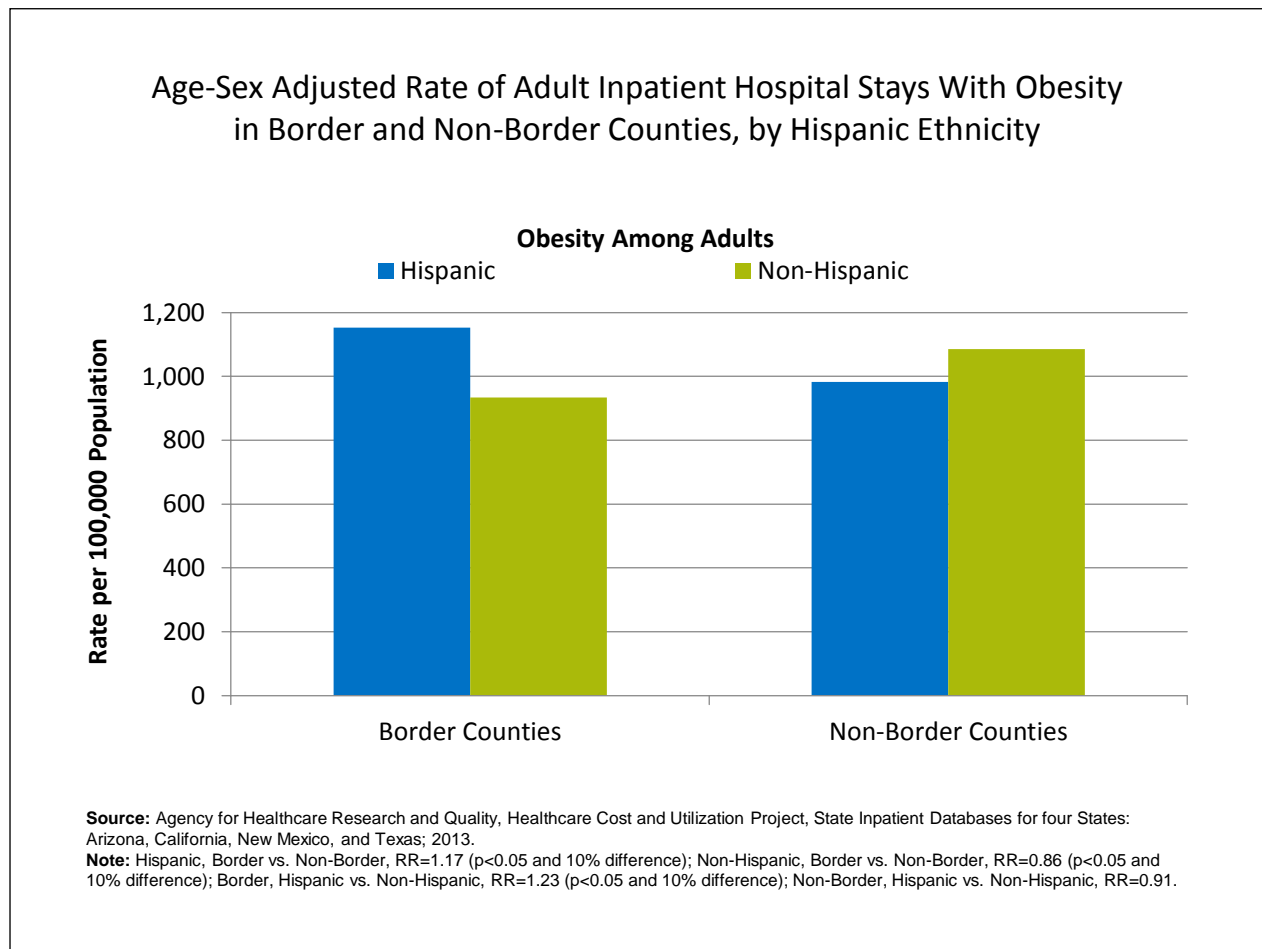
- For Hispanics in border counties, the rate of inpatient stays with chronic kidney disease was:
 - 1.12 times as high as Hispanics in non-border counties.
 - 1.63 times as high as non-Hispanics in border counties.
- Hispanics also had higher rates of chronic kidney disease in non-border counties, compared with non-Hispanics in non-border counties.
- Among non-Hispanics, those in border counties had lower rates of chronic kidney disease than those in non-border counties.

Age-Sex Adjusted Rate of Inpatient Stays With Diabetes, by Ethnicity



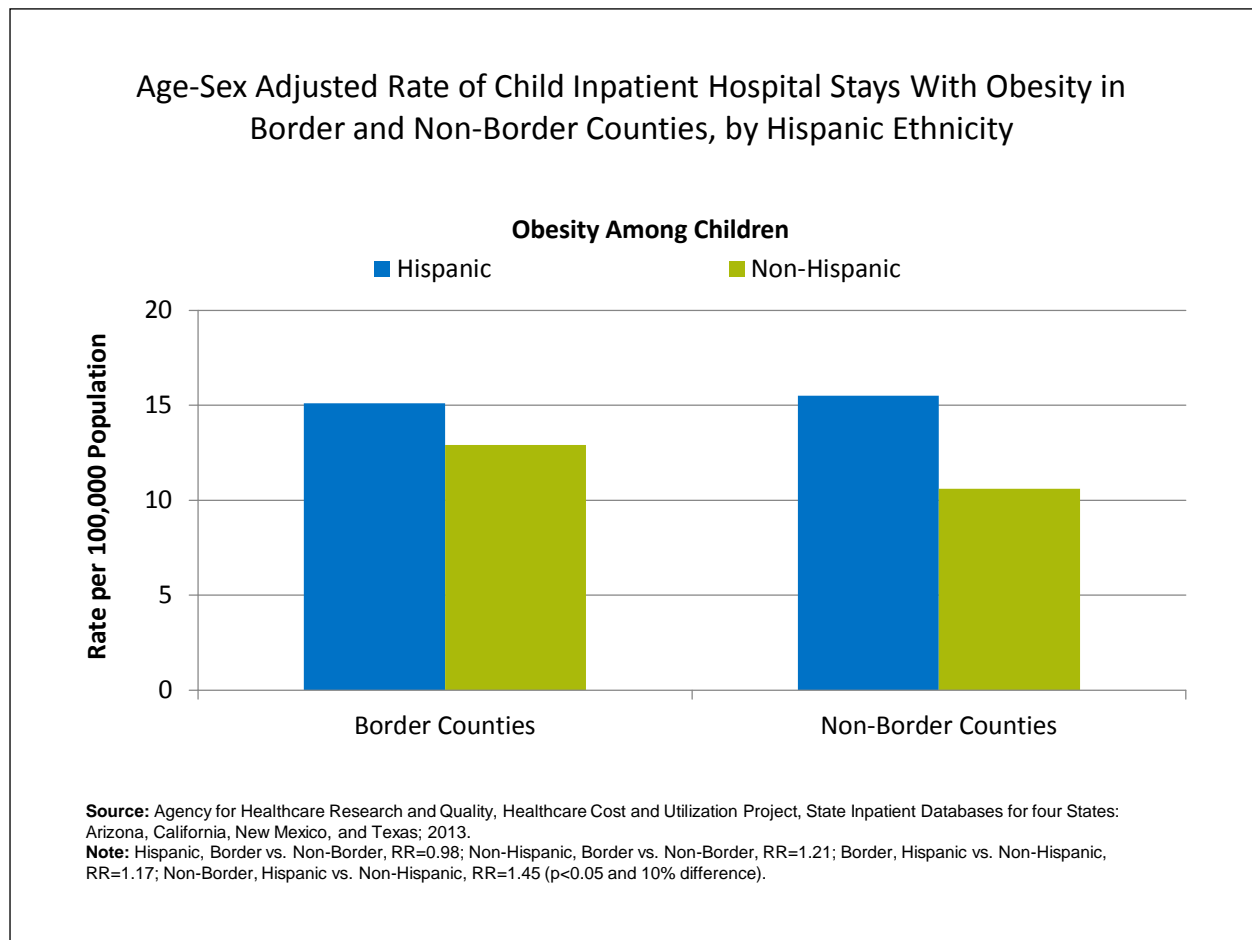
- For Hispanics in border counties, the rate of inpatient stays with diabetes was:
 - 1.11 times as high as Hispanics in non-border counties.
 - 1.72 times as high as non-Hispanics in border counties.
- Hispanics had higher rates of stays with diabetes than non-Hispanics, both in border and non-border counties.
- Among non-Hispanics, those in border counties had lower rates of stays with diabetes than those in non-border counties.

Age-Sex Adjusted Rate of Adult Inpatient Stays With Obesity, by Ethnicity



- For Hispanics in border counties, the rate of inpatient stays with adult obesity was:
 - 1.17 times as high as Hispanics in non-border counties.
 - 1.23 times as high as non-Hispanics in border counties.
- Among non-Hispanics, those in border counties had lower rates of adult obesity than those in non-border counties.

Age-Sex Adjusted Rate of Child Inpatient Stays With Obesity, by Ethnicity



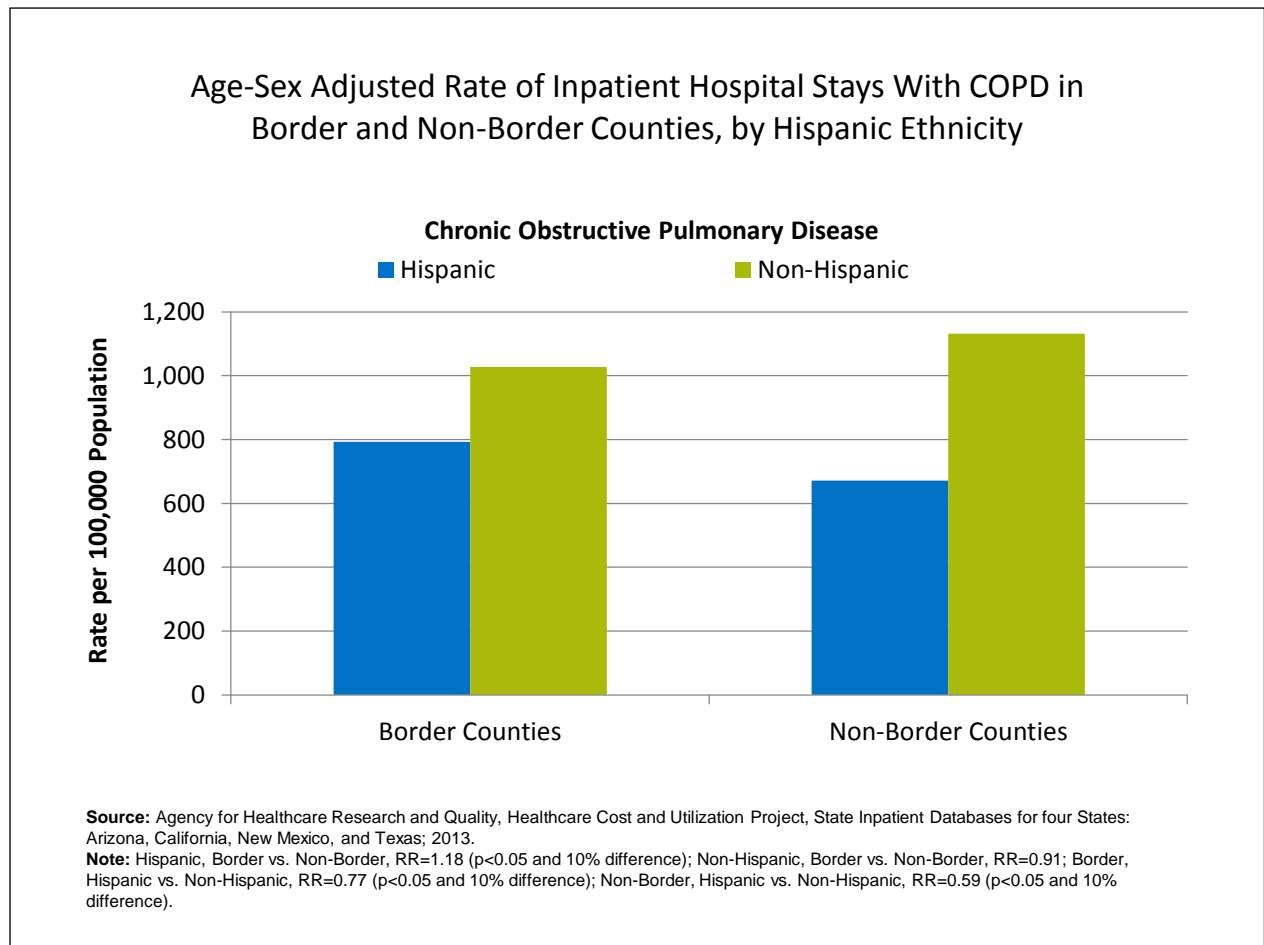
- In non-border counties, Hispanics had higher rates of child obesity than non-Hispanics.

AHRQ Health Care Innovations on the Border

Bienestar Health Program

- Location: Laredo, Texas, and Ciudad Victoria, Tamaulipas
- Population: Mexican-American and other at-risk youth
- Intervention: Comprehensive and culturally competent school-based behavior modification program intended to prevent or delay the onset of type 2 diabetes.
- Outcomes: Reduced risk factors, including body mass index, percentage of children with waist circumference at or above the 90th percentile, fasting insulin levels, and prevalence of obesity.

Age-Sex Adjusted Rate of Child Inpatient Stays With Chronic Obstructive Pulmonary Disease, by Ethnicity



- Among Hispanics, those in border counties had higher rates of COPD than those in non-border counties.
- Hispanics had lower rates of COPD than non-Hispanics, both in border and non-border counties.

AHRQ Health Care Innovations on the Border

[El Rio Inner-City Asthma Intervention](#)

- Location: Tucson, Arizona
- Population: Low-income, inner-city Latino children with moderate or severe persistent asthma
- Intervention: Comprehensive bilingual, bicultural program.
- Outcomes: Significantly reduced asthma-related emergency department visits, hospitalizations, missed school days, and sick days.

Complications of Inpatient Hospital Stays With Diabetes

Prevalence of Complications Among Inpatient Hospital Stays for Diabetes

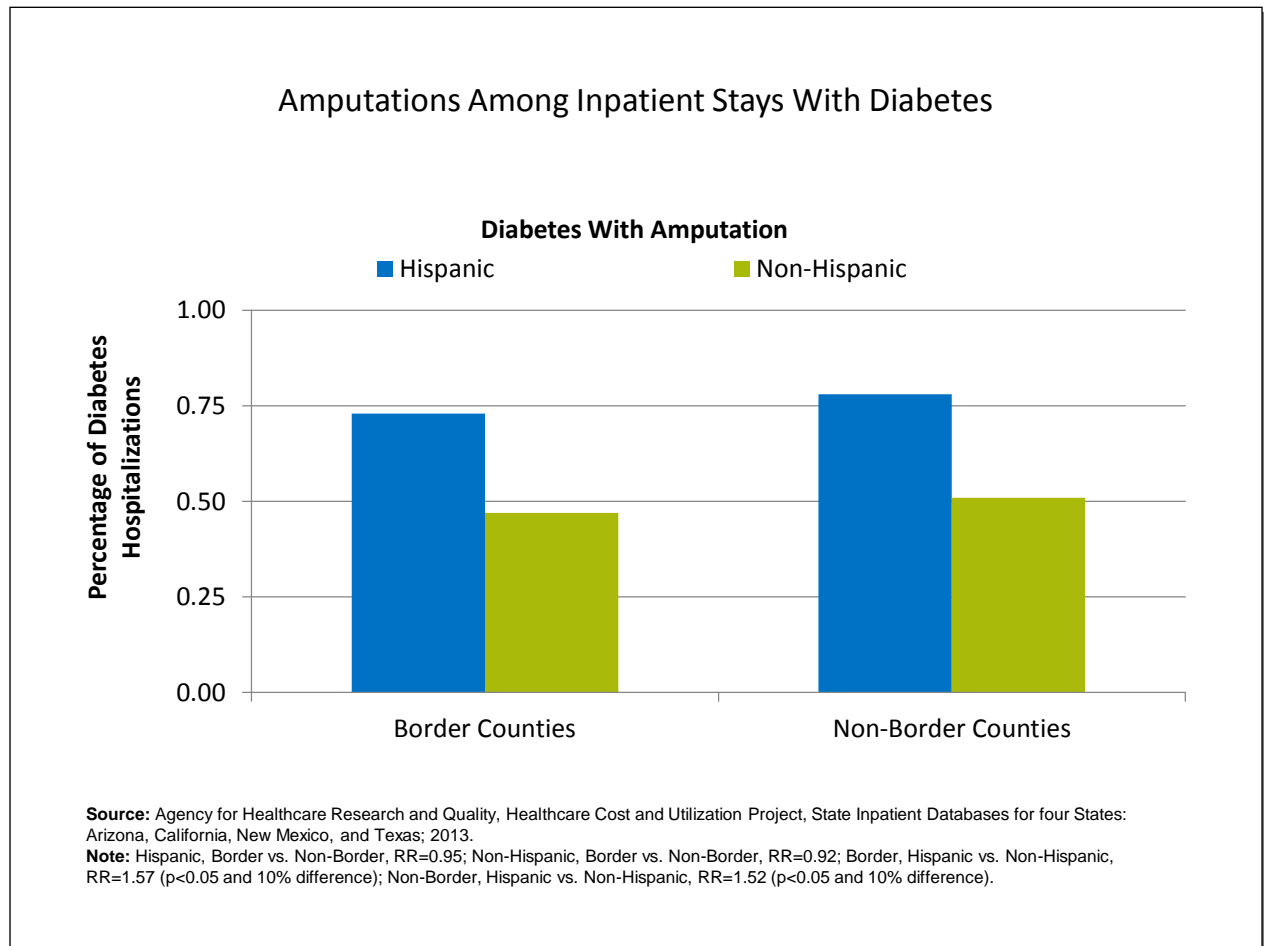
Type of Complication	Ratio of Percentage of Stays With Complication			
	Hispanics vs. Non-Hispanics		Border vs. Non-Border Counties	
	Border Counties	Non-Border Counties	Hispanics	Non-Hispanics
Severity index based on comorbidities	1.02	0.89	1.06	0.93
Amputations	1.57	1.52	0.95	0.92
Renal failure	1.12	1.01	1.02	0.92
Peripheral vascular disease	1.13	0.90	1.13	0.90
Adult obesity	1.02	0.92	1.06	0.96
Hypothyroidism	0.89	0.79	1.14	1.02
Paralysis	1.11	0.94	1.06	0.90
Other neurologic disorders	0.90	0.75	1.16	0.97
Fluid and electrolyte disorders	1.01	0.97	1.06	1.01
Deficiency anemia	1.34	1.11	1.05	0.87

Source: Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project, State Inpatient Databases for four States: Arizona, California, New Mexico, and Texas; 2013.

Note: Shaded cells represent statistically significant differences ($p < .05$) of 10% or greater. All ratios are of the percentage of diabetes stays with complications, except for the severity index, which is based on a ratio of means. Severity index is based on a weighted sum of the 29 individual comorbidity indicators with more severe comorbidities having a higher weight. For example, the weight for metastatic cancer is 13 and the weight for chronic pulmonary disease is 3.

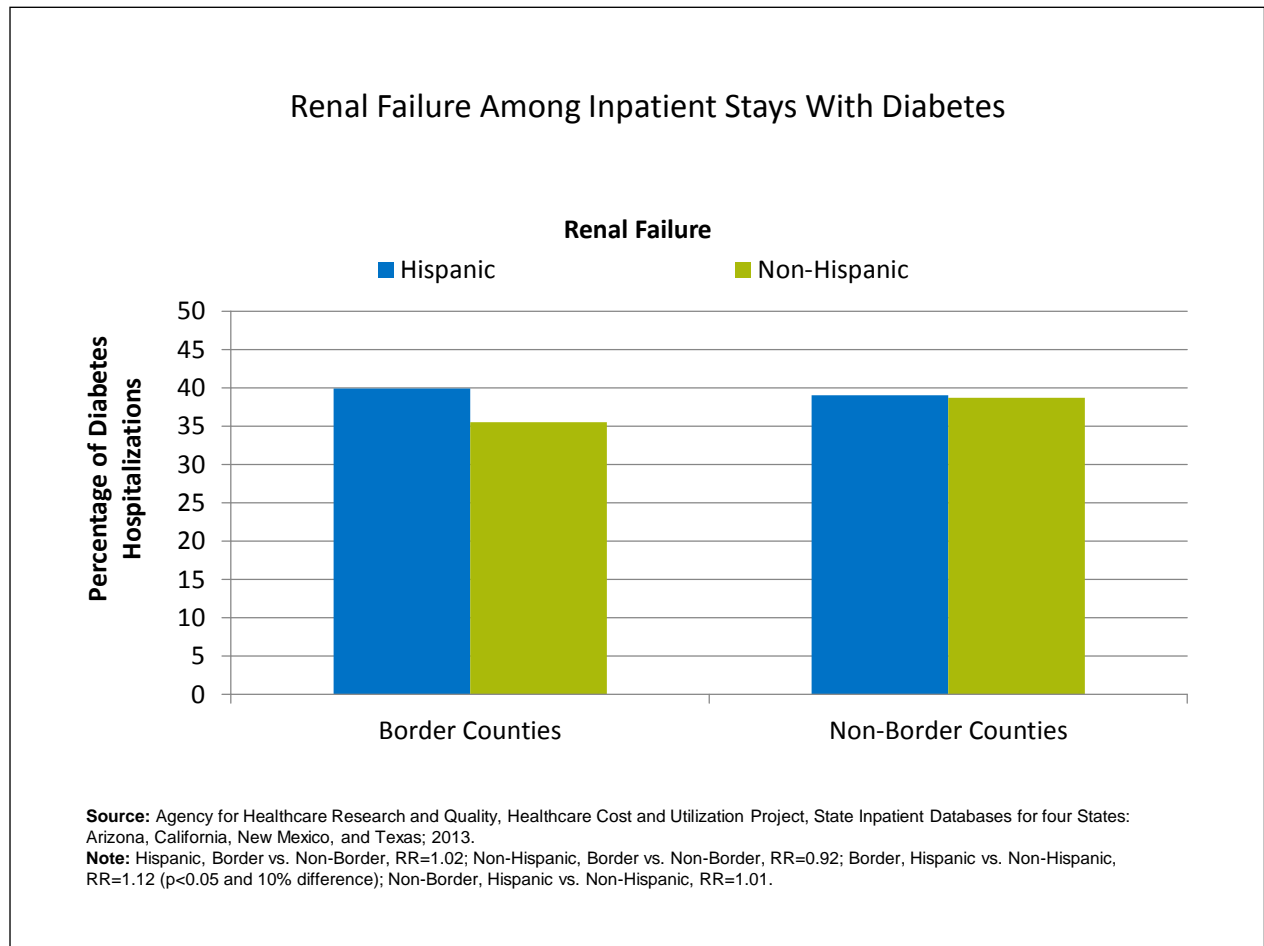
- Compared with non-Hispanics, Hispanics generally had higher rates of complications associated with diabetes, especially in border counties.
- Among Hispanics, those in border counties had higher rates of complications associated with diabetes compared with non-border counties.

Amputations



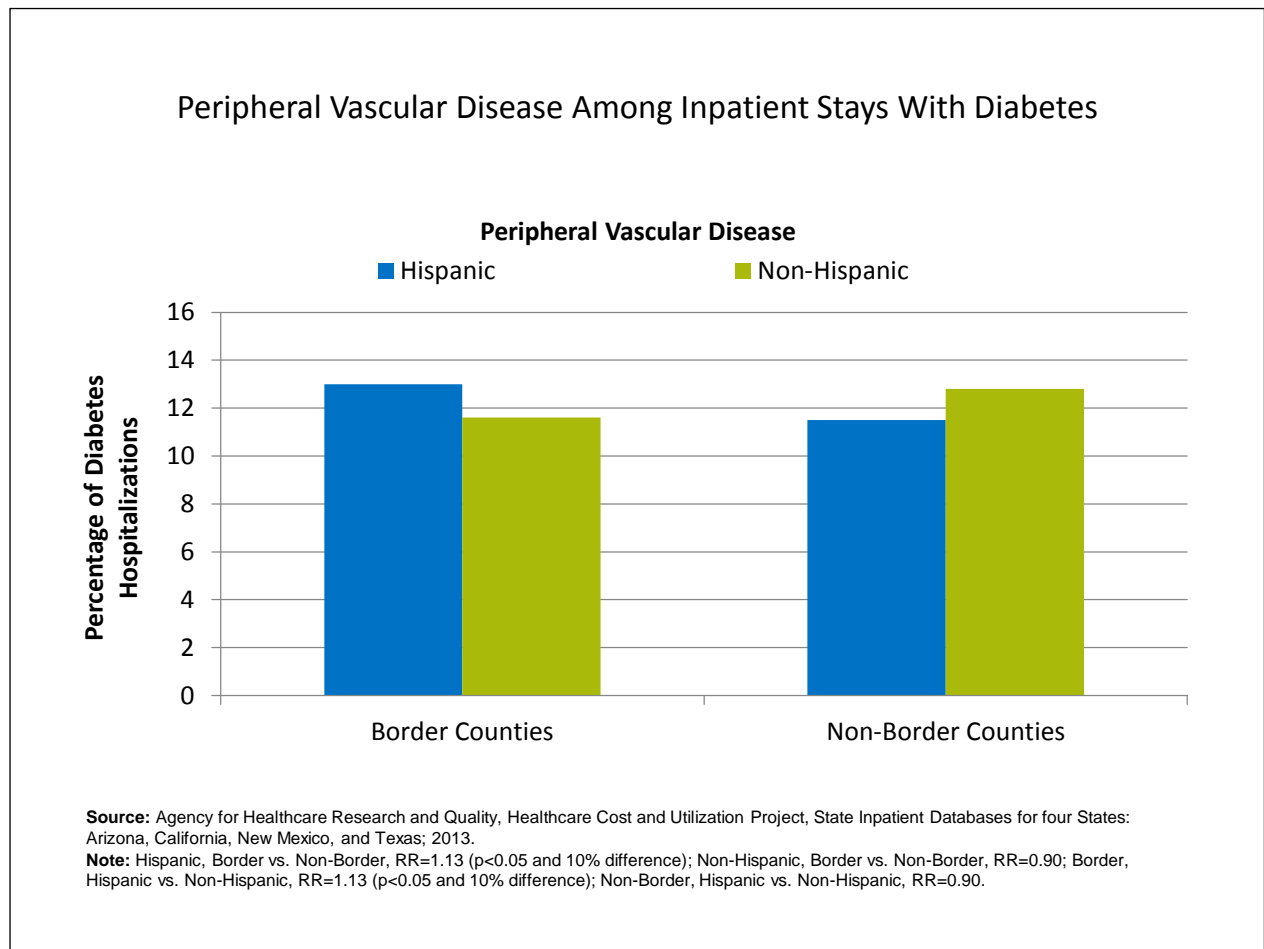
- Hispanics with diabetes were more likely to have an amputation compared with non-Hispanics with diabetes, both in border and non-border counties.

Renal Failure



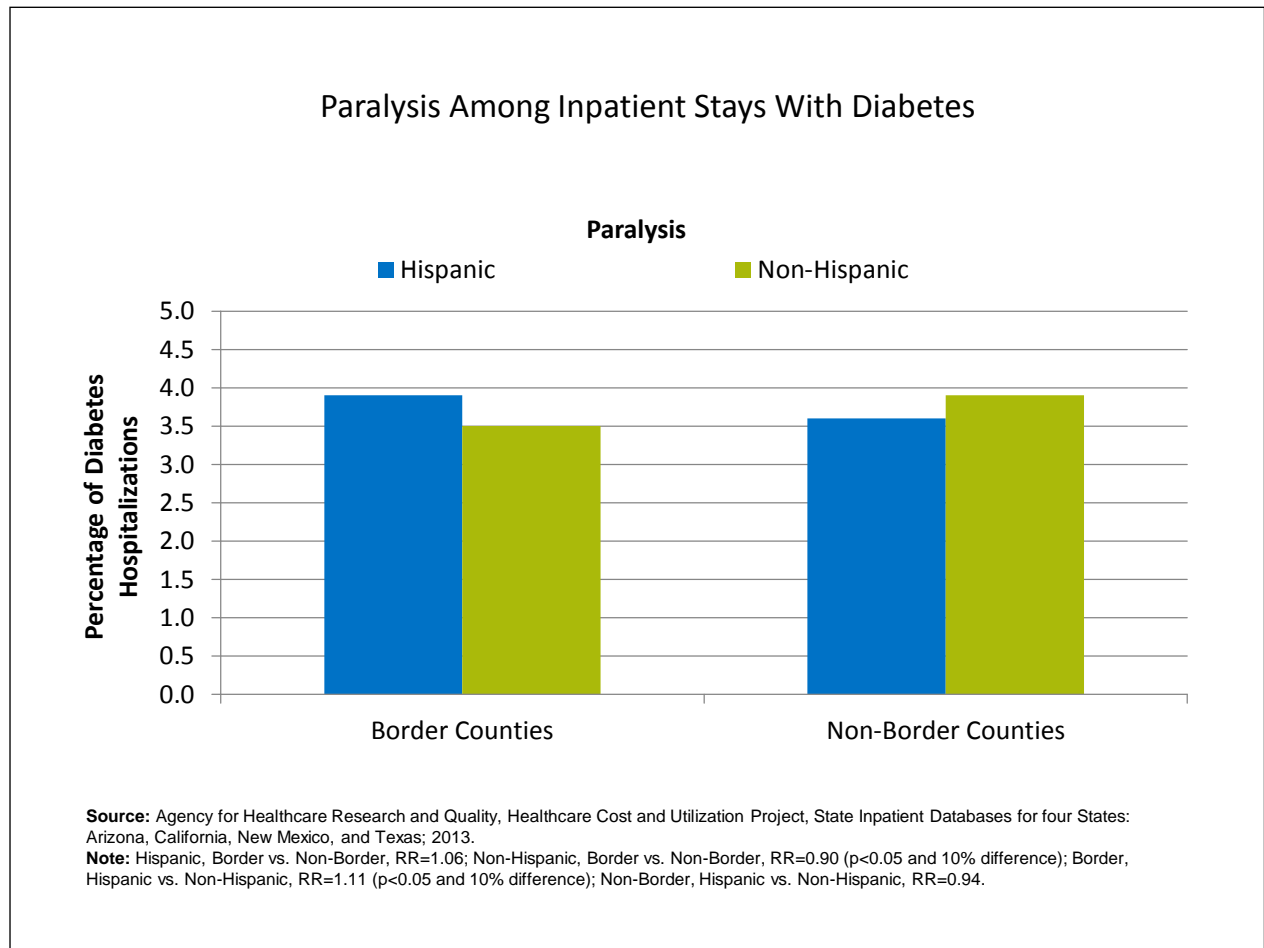
- A higher percentage of Hispanics in border counties with an inpatient stay for diabetes had renal failure (listed as any diagnosis), compared with non-Hispanics in border counties.

Peripheral Vascular Disease



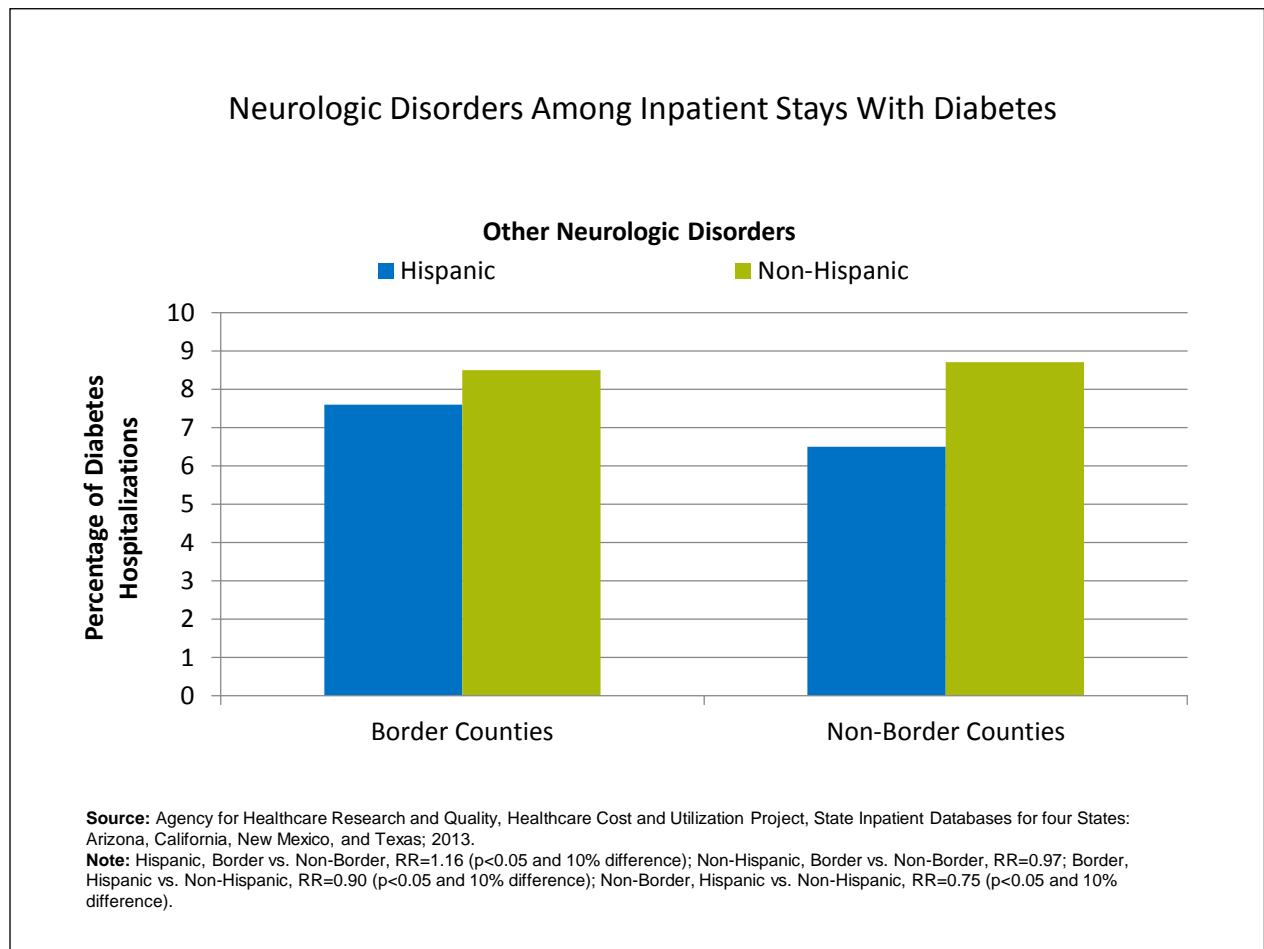
- A higher percentage of Hispanics in border counties with an inpatient stay for diabetes had peripheral vascular disease, compared with:
 - Non-Hispanics in border counties and
 - Hispanics in non-border counties.

Paralysis



- Among non-Hispanics with diabetes, those in border counties had a lower prevalence of paralysis than those in non-border counties.
- In border counties, Hispanics with diabetes had a higher prevalence of paralysis than non-Hispanics with diabetes.

Neurologic Disorders



- A higher percentage of Hispanics in border counties with an inpatient stay for diabetes had neurologic disorders, compared with Hispanics in non-border counties.
- Hispanics with diabetes had lower rates of neurologic disorders than non-Hispanics with diabetes, both in border and non-border counties.

Complications Among Inpatient Hospital Stays for Mental Health or Substance Abuse

Prevalence of Complications Among Inpatient Hospital Stays for Mental Health and Substance Abuse

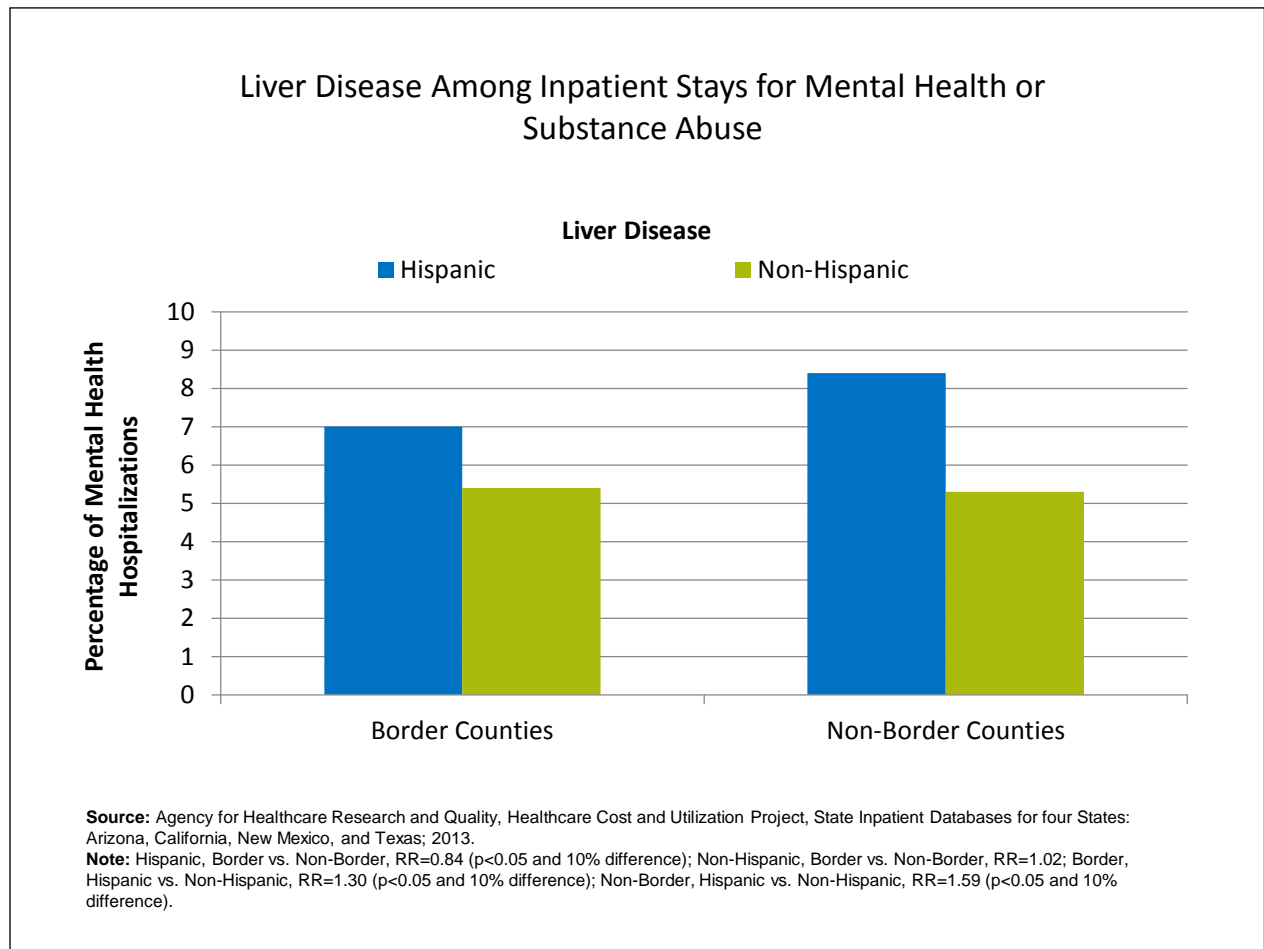
Type of Complication	Ratio of Percentage of Stays With Complication			
	Hispanics vs. Non-Hispanics		Border vs. Non-Border Counties	
	Border Counties	Non-Border	Hispanics	Non-Hispanics
Liver disease	1.30	1.59	0.84	1.02
Hypertension	1.00	0.87	1.08	0.94
Fluid and electrolyte disorders	1.04	0.94	1.11	1.01
Deficiency anemia	1.32	1.07	1.05	0.85
Other neurologic disorders	1.08	0.87	1.24	1.00
Alcohol abuse	0.95	1.50	0.83	1.32
Drug abuse	0.88	1.29	0.81	1.18
Psychoses	0.73	0.88	0.90	1.07
Depression	0.96	0.90	1.08	1.01

Source: Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project, State Inpatient Databases for four States: Arizona, California, New Mexico, and Texas; 2013.

Note: Shaded cells represent statistically significant differences ($p < .05$) of 10% or greater. All rates are per 100,000 population.

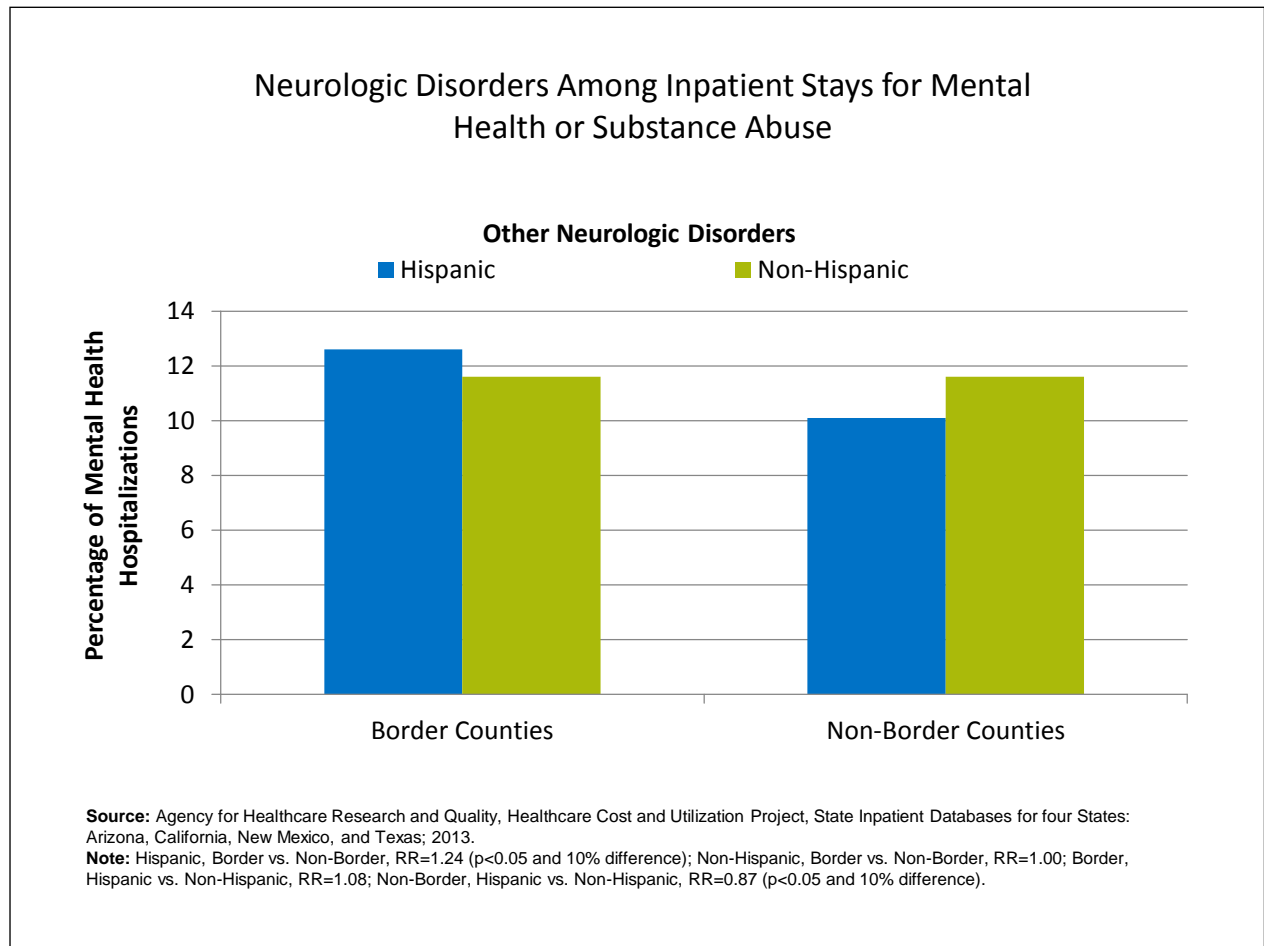
- Compared with non-Hispanics, Hispanics were more likely to have a code for liver disease, both in border and non-border counties.
- Among Hispanics, compared with those in non-border counties, those in border counties were:
 - Less likely to have a code for liver disease, alcohol and drug abuse, and psychoses.
 - More likely to have fluid and electrolyte disorders and other neurologic disorders.
- Among non-Hispanics, those in border counties were more likely to have a code for drug or alcohol abuse than those in non-border counties.

Liver Disease



- Compared with non-Hispanics, a higher percentage of Hispanics with an inpatient stay for mental health had liver disease, in both border and non-border counties.
- Among Hispanics, those in border counties were less likely to have liver disease than those in non-border counties.

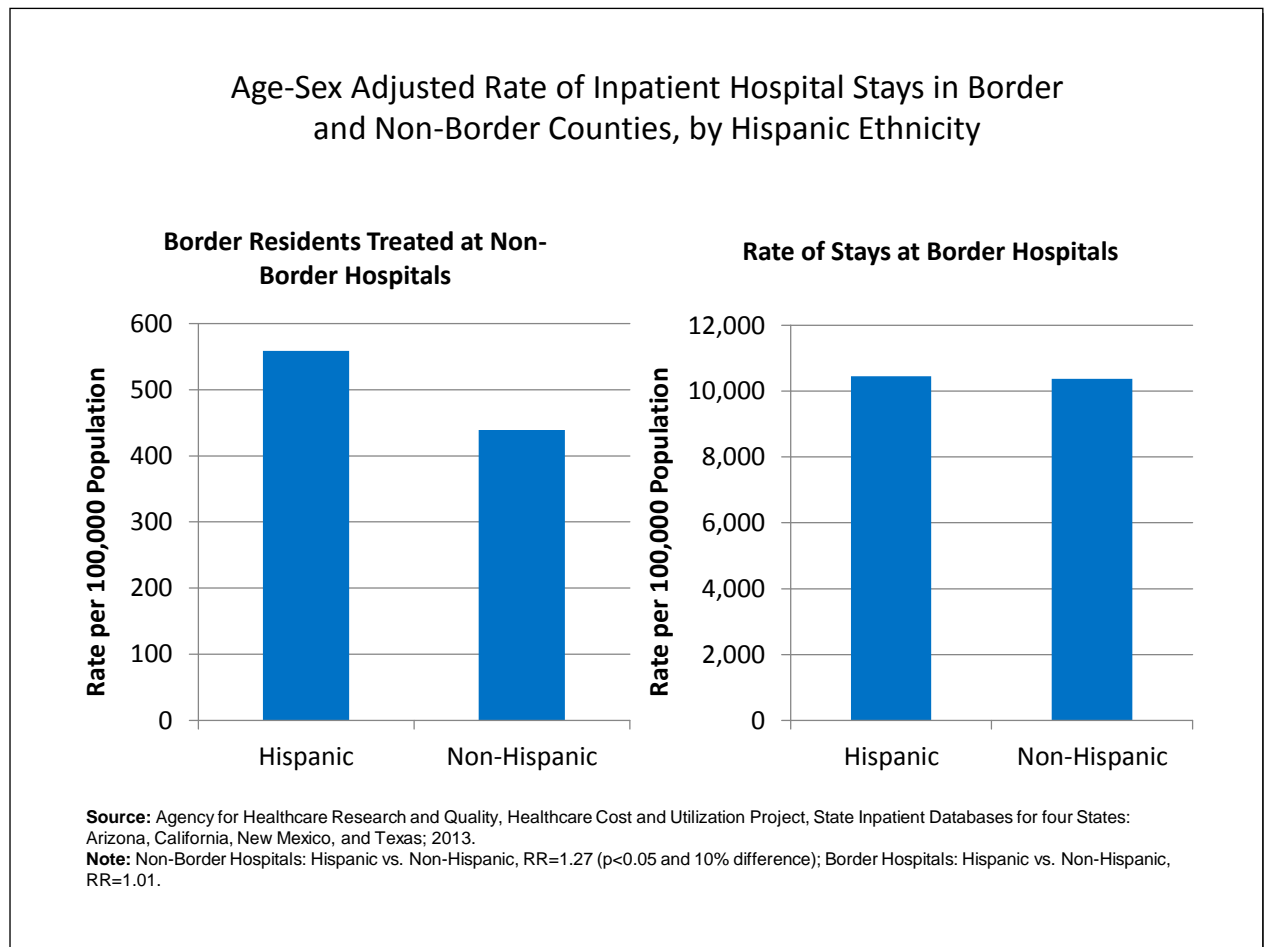
Neurologic Disorders



- A greater percentage of Hispanics in border counties with an inpatient stay for mental health had neurologic disorders, compared with Hispanics in non-border counties.

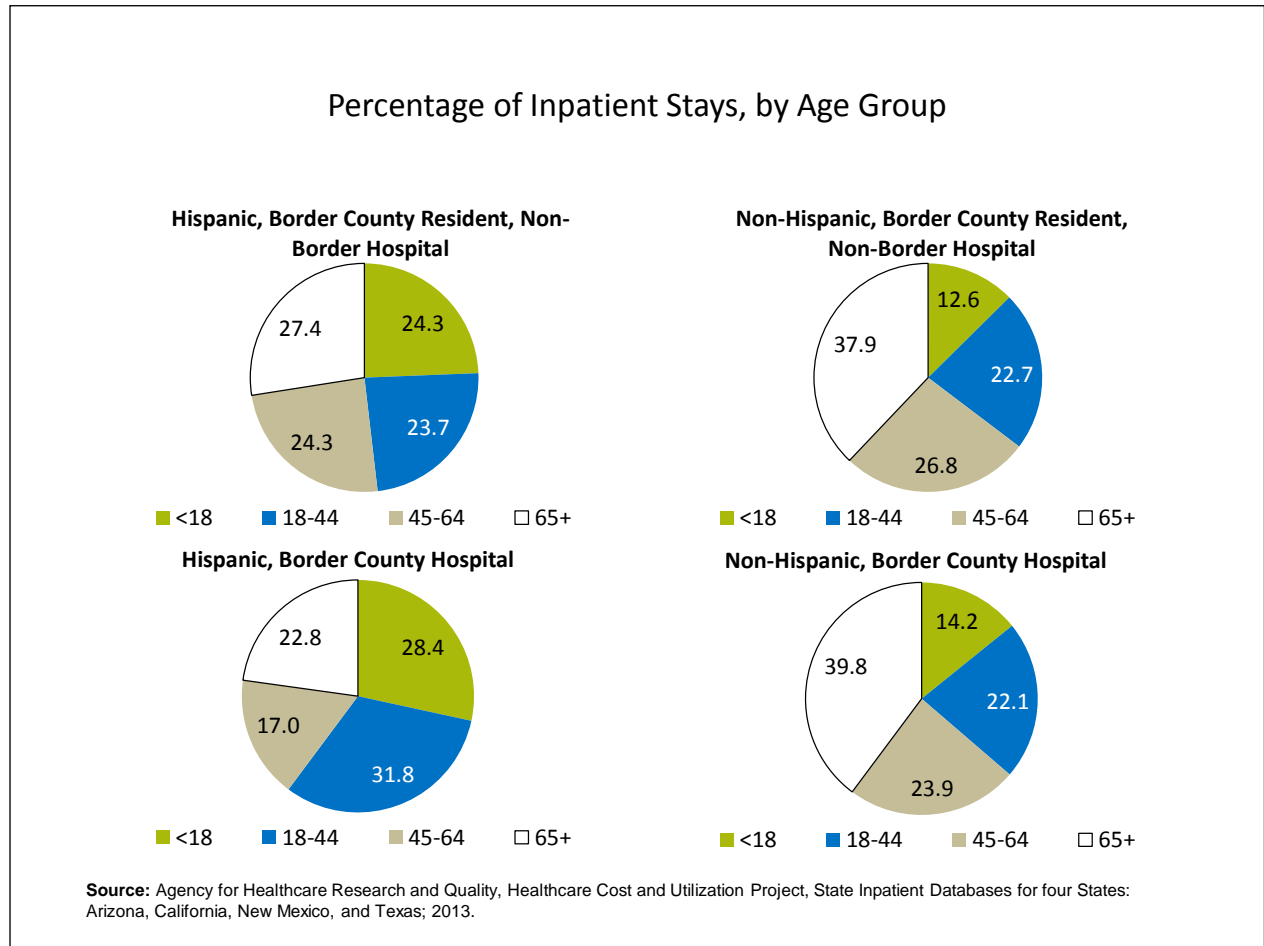
Border County Residents Treated at Non-Border Hospitals

Age-Sex Adjusted Rate of Inpatient Stays in Border and Non-Border Hospitals



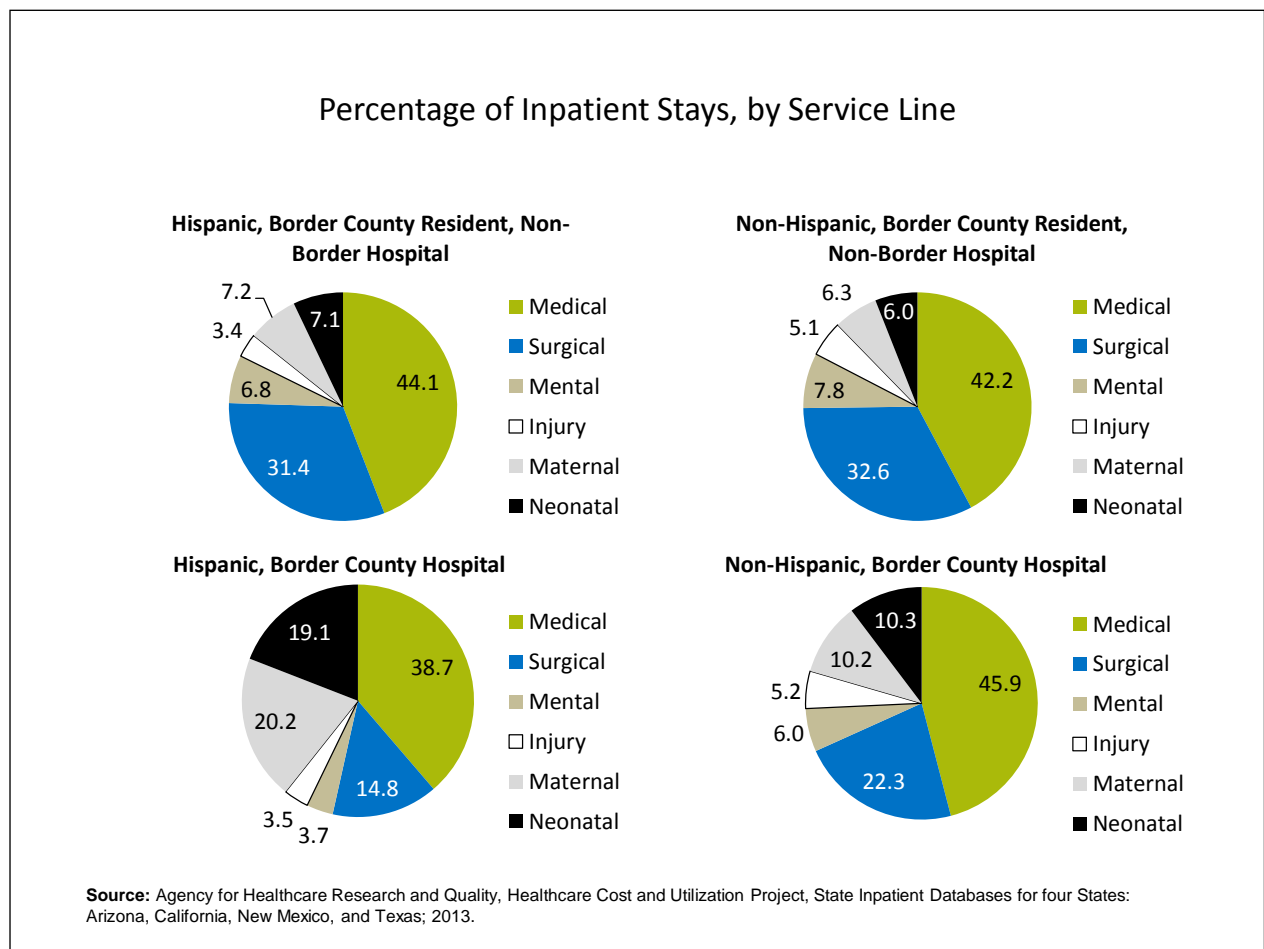
- By excluding border residents treated at non-border hospitals from the analyses above, we lost about 600 stays per 100,000 population.
- The rate of stays at border hospitals was similar for Hispanics and non-Hispanics. However, the rate of stays for border residents treated at non-border hospitals was 1.3 times as high for Hispanics as for non-Hispanics.

Distribution of Inpatient Stays by Age



- The age distribution was generally similar for stays based on border county hospitals and border county residents treated at non-border hospitals.

Distribution of Inpatient Stays by Service Line



- Most discharges among border county residents treated at non-border hospitals were for surgical or medical reasons (75%) (versus, for instance, about 50% among Hispanics in border counties).

Leading Diagnoses for Inpatient Stays Among Border Residents Treated at Non-Border Hospitals

CCS First-Listed Diagnosis	%
218: Liveborn	5.9
2: Septicemia (except in labor)	3.3
237: Complication of device; implant or graft	3.1
203: Osteoarthritis	2.4
205: Spondylosis; intervertebral disc disorders; other back problems	2.4
45: Maintenance chemotherapy; radiotherapy	2.1
109: Acute cerebrovascular disease	2.1
122: Pneumonia (except that caused by tuberculosis or sexually transmitted disease)	2.0
100: Acute myocardial infarction	1.9
108: Congestive heart failure; nonhypertensive	1.8

Key: CCS=Clinical Classifications Software.

Source: Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project, State Inpatient Databases for four States: Arizona, California, New Mexico, and Texas; 2013

Summary

Key Findings

- Hospital data can be used to assess health care received by residents of the U.S.-Mexico border.
- Access to health care: Hispanics in border counties had the highest rates of uninsurance.
- Hispanics in border counties had higher hospitalization rates than Hispanics in non-border counties for:
 - Diabetes.
 - Injuries.
 - Maternal and neonatal care.
 - COPD.
 - Chronic kidney disease.
 - Obesity.
- When hospitalized for diabetes in border hospitals, Hispanics were more likely than non-Hispanics to experience:
 - Amputation.
 - Renal failure.
 - Peripheral vascular disease.
 - Paralysis.
- When hospitalized for mental health or substance abuse in border hospitals, Hispanics were more likely than non-Hispanics to have:
 - Liver disease.
- Hispanics in border counties were more likely to be hospitalized in non-border hospitals than non-Hispanics.

Definitions

Conditions of Interest

- **Cancers:** Any Dx^v in CCS 24 (breast), 26 (cervix), 29 (prostate), or in range 140.x-149.x (oral)
- **Cardiovascular:** Any Dx in CCS 96-109
- **Diabetes:** Any Dx in CCS 49-50
 - Lower-extremity amputation based on AHRQ PQI 16
- **HIV/AIDS:** Any Dx in CCS 5

^v Dx = diagnosis; CCS = Clinical Classifications Software; PQI = Prevention Quality Indicator; CDC = Centers for Disease Control and Prevention.

- **Maternal and Neonatal:**
 - Newborn: PDx in CCS 218 (normal) and CCS 219-224 (complicated)
 - ◆ Neural tube defects: PDx in 756.17, 741.x
 - Delivery: PDx in CCS 196 (normal) and CCS 176-195 (complicated)
- **Mental Health and Substance Use:** Any Dx in CCS 650-659, 662-670 (mental health) and CCS 660-661 (substance use)
- **Environmental health:** Any Dx in CCS 128 (asthma), 127 (COPD), 131 (respiratory failure), 122 and 132 (other respiratory including pneumonia)
- **Injuries:** Any external cause of injury code indicating motor vehicle accident and unintentional injuries (screen based on CDC classification for injuries)
- **Obesity:** Any Dx of 278.00, 278.01, and V778 by age (18+ adults; 0-17 children)
- **Renal Failure:** Any Dx in CCS 157 (acute) or CCS158 (chronic)

Service Line and Comorbidities

- **Service line:**
 - Maternal: PDx in CCS 176-196.
 - Neonatal: PDx in CCS 218-224.
 - Mental Health: PDx in 650-670.
 - Injury: PDX in range 800-990.4, 909.9, 910-994.9, and 995 (with some exclusions).
 - Surgical: Surgical diagnosis-related group.
 - Medical: All other discharges.
 - Every discharge is assigned to one of the hospital service lines, based on the following hierarchical order: maternal and neonatal, mental health, injury, surgical, and medical.
- **Comorbidities:**
 - AHRQ indicators for 29 comorbidities.
 - Severity index is based on a weighted sum of the individual comorbidity indicators with more severe comorbidities having a higher weight. For example, the weight for metastatic cancer is 13 and the weight for chronic pulmonary disease is 3.