

Chronic Conditions 101

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Rising Rates of Chronic Conditions: What Can Be Done?

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Global Magnitude of Chronic Disease Challenge



- Chronic diseases often go ignored because they are not as dramatic as infectious diseases
- More people die every year from cardiovascular disease than AIDS, tuberculosis and malaria combined*
- Chronic diseases account for 60% of global deaths now and will account for about 75% of all deaths by 2020*



Chronic Conditions in the U.S.



- In 2005, about 60% of the adult U.S. population 18 and older had at least one chronic condition, and \$3 of every \$4 spent on prescriptions were for treatment of chronic conditions
- Nearly four in 10 Americans between 18 and 34 had at least one chronic condition, as did nine of every 10 aged 65 and older
- About 77% of Americans aged 65 and older had two or more chronic conditions, and about 14% of those 18 to 34 had two or more conditions

AHRQ News & Numbers

dental care, medical equipment, and supplies About 22 million adults received medical care for osteoarthritis and related conditions, 49 million for asthma or chronic obstructive pulmonary disease.

17 million for diabetes, 45 million for high blood pressure, and 19 million for heart disease.



Disparities and the **Overall Quality of Care**

Relationship Between Quality of Care and Racial Disparities in Medicare Health Plans

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LIMINATING DISPARITIES IN health care is a fundamental component of the agenda to im- prove quality. In a landmark 2001 report, the Institute of Medicine affirmed this principle by defining equity as 1 of 6 essential dimensions of quality of care.1 This report recommended that the nation strive for "care that does not vary in quality because of personal characteristics such as gender, ethnicity, geographic location, and socioeconomic status." The importance of equity is supported by numerous studies that have documented worse quality of care for black Americans relative to white Americans across a broad array of medical conditions.34

Several performance reporting systems now report publicly on aspects of quality such as surgical outcomes,5 adherence to evidence-based quality measures, 9,30 and pattents' assessments of care,11 but few public reports about the quality of health care organizations have also assessed the equity of care provided by those organizations. Since 2003, the National Healthcare Dispartties Report has provided information on the quality of care by race and ethnicity, but this report has not assessed racial disparities in the quality of clinical care within health plans or health analysis of these data, we found both care delivery organizations. 12

The Medicare managed care program (Medicare Advantage) offers an opportunity to study whether and how equity in the delivery of clinical care is sessing control of glucose and

Context: Overall quality of care and radial disparities in quality are important and related problems in health care, but their relationship has not been well studied. In the Miedicare managed care program, broad improvements in quality have been accompanied by reduced radial gaps in processes of care, but substantial disparities in outcomes have persisted.

Objectives To assess variations among Medicare health plans in overall quality and racial disparity in 4 Health Plan Employer and Data Information Set (HEDIS) outcome. measures, to determine whether high-performing plans exhibit smaller racial disparities, and to identify plans with high quality and low disparity.

Design, Setting, and Patients We assessed the relationship between quality and racial disparity using multilevel multivariable regression models. The study sample included 43 1 573 individual-level observations in 151 Medicare health plans from 2002 to 2004.

Main Outcome Measures Hemoglobin $A_{\rm tc}$ of less than 9.5% or less than 9.0%for enrollees with diabetes; low-density lipoprotein cholesterol level of less than 130mg/dL for enrollees with diabetes or after a coronary event; and blood pressure of less than 140/90 mm Hg for enrollees with hypertension.

Results - Clinical performance on HEDIS outcome measures was 6.8 % to 14.4 % lower for black enrollees than for white enrollees (P<.001 for all). For each measure, more than 70% of this disparity was due to different outcomes for black and white individuals enrolled in the same health plan rather than selection of black enrollees into lower-performing plans. Health plans varied substantially in both overall quality and racial disparity on each of the 4 outcome measures. Adjusted correlations between overall quality and racial disparity were small and not statistically significant, ranging from 0.01 (blood pressure control) to =0.21 (cholesterol control in diabetes). Only 1 health plan achieved both high quality and low disparity on more than 1 measure.

Conclusions In Medicare health plans, disparities vary widely and are only weakly correlated with the overall quality of care. Therefore, plan-specific performance reports of racial disparities on outcome measures would provide useful information not currently conveyed by standard HEDIS reports.

JAMA: 2006;295:1998-2004

by health plans. Since 1997, all health ties remained substantial and statistiplans participating in Medicare have reported on the quality of care using Health Plan Employer and Data Informatton Set (HEDIS) performance measures developed by the National Committee for Quality Assurance.9 In a prior improvement in the quality of care and narrowing of racial disparities in adherence to HEDIS process-of-care indicators. For 2 outcome measures as-

related to the quality of care provided - cholesterol, however, racial disparically unchanged from 1997 to 2003.13

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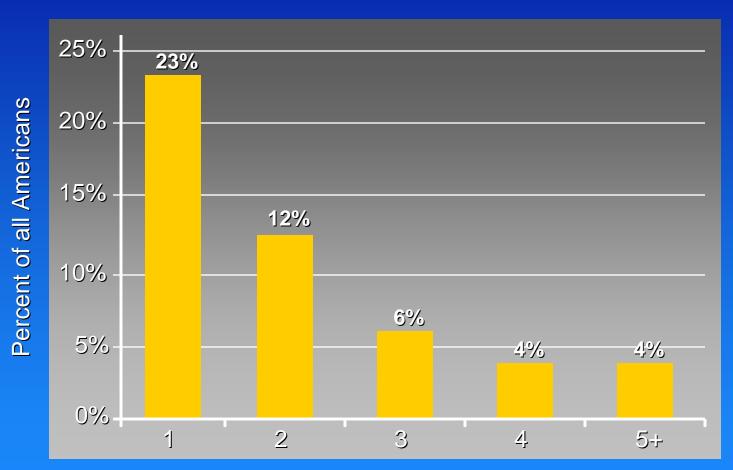
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Disparities vary widely and are only weakly correlated with the overall quality of care

1990 JAMA, October 23, 2006—Vol 296, No. 16 (Reprinted)



One In Four Americans Has Multiple Chronic Conditions



In 2004, 26% of all Americans had two or more chronic conditions

Number of Chronic Conditions



Nine of the Top 10 Highest-Cost Conditions are Chronic in Nature

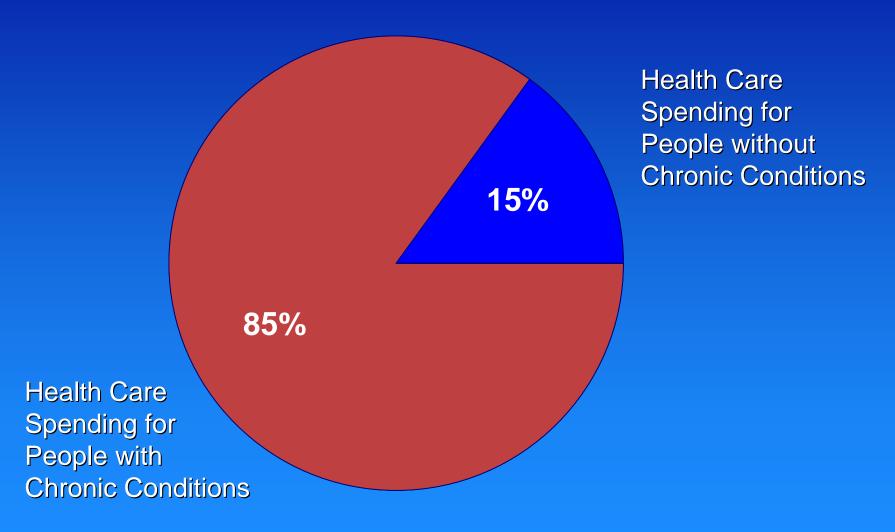
(\$ In Billions: Chronic conditions listed in bold type)

- Heart Disease (\$76)
 Hypertension (\$42)
- Trauma (\$72)
 Diabetes (\$34)
- Cancer (\$70)Osteoarthritis (\$34)
- Mental Disorders (\$56) Back Problems (\$32)
- Pulmonary Conditions Kidney Disease (\$31) (\$54)

Center for Financing, Access and Cost Trends, Agency for Healthcare Research and Quality: Medical Expenditure Panel Survey, 2005



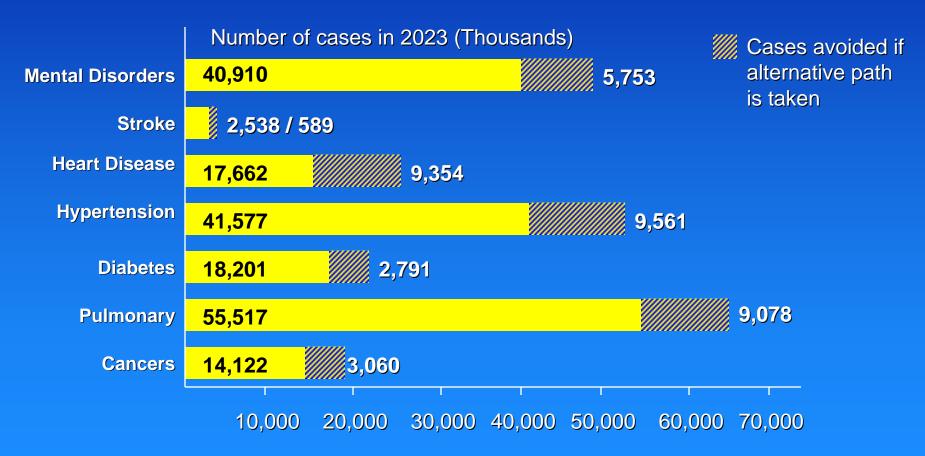
Health Care Spending on Chronic Conditions





Change Drives Progress

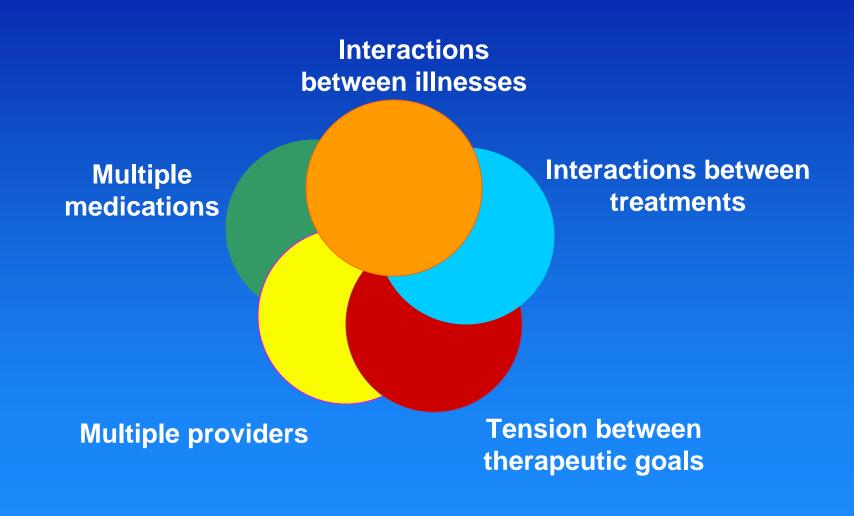
40.2 million cases of chronic conditions can be avoided and \$1.1 trillion can be saved in 2023 by making reasonable improvements in preventing and managing chronic disease



An Unhealthy America: The Economic Burden of Chronic Disease Milken Institute October 2007



Challenges in Addressing Multiple Conditions





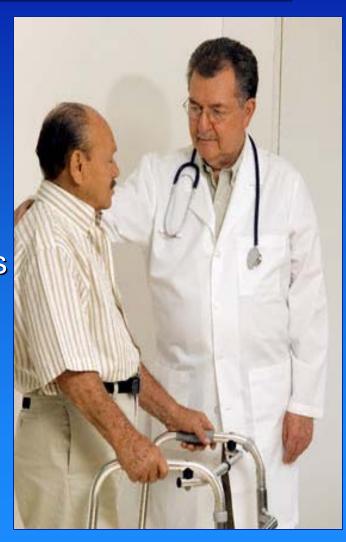
Knowledge Transfer: Elder Learning Networks

- AHRQ/AOA/CDC: sponsor two Evidence-based Disability and Disease Prevention Learning Networks -2006 & 07/8
- Elders Learning Networks I/II Florida, Maine, Michigan, Rhode Island, South Carolina, Vermont, Illinois, Maryland, Massachusetts, New Jersey, Ohio
- To facilitate clinical and community linkages for chronic disease management
- GOAL: To provide evidence-based research/tools and peer-to-peer learning to keep elders healthy in community
- To support coalition building among clinical, public health and community organizations



HHS Hispanic Elders Learning Network

- Eight communities with large Hispanic elder populations
 - NYC, Miami, Chicago, Houston,
 San Antonio, Lower Rio Grande
 Valley, L.A., San Diego
- Teams develop community partnerships to target health disparities among Hispanic elders
- AHRQ, AOA, CDC, HRSA and CMS partnership provides evidence-based research and tools, promotes peer-to-peer learning
- Community focus on chronic disease, e.g. diabetes





Care for Patients with Multiple Chronic Conditions

AHRQ Ambulatory Safety and Quality Program (ASQ)

- RxSafe: Shared Medication Management and Decision Support for Rural Clinicians – Oregon Health & Science University
 - Oregon Health & Science University is using previously developed technology to support shared medication management for persons with chronic conditions
 - Type of Health IT: Clinical/Operational Decision Support (provider-focused)

Estimated Total Funding: \$1.2 million

Project Start – Sept. 30, 2007 Project End – Sept. 29, 2010

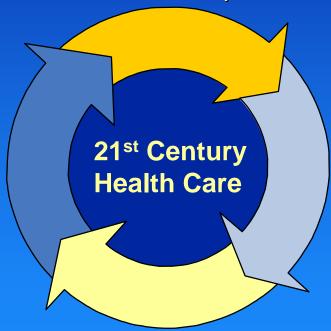


21st Century Health Care

Improving quality by promoting a culture of safety through Value-Driven Health Care

Information-rich, patientfocused enterprises

Evidence is continually refined as a by-product of care delivery



Information and evidence transform interactions from reactive to proactive (benefits and harms)

Actionable information available – to clinicians AND patients – "just in time"



Improving Quality Care and Reducing Disparities

Improving Care Quality and Reducing Disparities

Physicians' Roles

OR SEVERAL DECADES, INTENSE HEALTH CARE policy interest in clinical practice variation has inspired efforts to identify inappropriate variation, that is, differences in care delivery that are not attributable to clinical differences in disease or patient preferences. Practice variations associated with patient race, ethnicity, socioeconomic status, geography, and other factors not attributable to clinical manifestations are prevalent and reflect suboptimal return on our investment in health care. In addition, disparities in access to care may lead to inefficient and costly patterns of care and contribute to longstanding disparities in health status and outcomes. As the US population becomes increasingly diverse, there is growing urgency underlying the imperative to identify solutions to the challenges of "unequal treatment."

HEALTH CARE GAP

Policy initiatives in the public and private sectors that promote transparency and link financial rewards with clinical performance are an important component of the current environment in which efforts to address disparities occur. An extensive literature and numerous authoritative reports have clearly demonstrated 2 overarching themes with respect to quality and disparities in health care: (1) there is a significant gap for all Americans between best possible care and that which is routinely delivered; and (2) this gap is larger for patients who are members of minority groups, poor, of lower educational level, or disabled. The Agency for Healthcare Research and Quality's annual National Healthcare Quality Report and

See also page 1145

National Healthcare Disparities Report¹ reinforces these findings across all settings and age groups. In short, suboptimal quality and disparities are not isolated phenomena but rather integrally related concepts that benefit from coordinated intervention. Identifying subgroups at highest risk for poor-quality health care is a pragmatic approach to closing the gap between ideal care and care received and may also offer critical insights regarding both the limits and potential of current health care arrangements to apply scientific evidence to improve patient outcomes. Previous studies24 have found that public reporting on clinical performance has been associated with overall improvements and reduced disparities between black patients and white patients for selected process measures (eq. ordering tests to assess control of diabetes mellitus and low-density lipoprotein cholesterol [LDL-C] lipid levels), whereas differences in outcomes (eg, control of hemoglobin AL and LDL-C levels) have been far more difficult to affect. Other studies have found that improving quality of care overall has been accompanied by reductions in disparities associated with race and sex.5 Most studies confirm that disparities remain pervasive, even though these differences vary with specific racial or ethnic groups and specific disease conditions and settings

PHYSICIAN PERFORMANCE AND RACIAL DISPARITIES

In this issue of the Archives, Sequist et ale focus on physician performance and racial disparities in diabetes mellitus care. In contrast to prior studies that have focused on disparities within and across hospitals, health plans, and regions, the perspective addressed in their article is the role of variation among individual physicians in contributing to observed disparities in quality. Taking advantage of an integrated multispecialty group practice in eastern Massachusetts that uses a common electronic medical record with decision support tools for chronic disease care, the study addresses the extent to which racial disparities in intermediate outcomes of diabetes mellitus care are related to differences in care provided by the same physician compared with differences owing to black and white patients being seen by different physicians. A secondary objective was to determine whether overall quality of a diverse patient panel is associated with decreased disparities between white and black patients within individual physicians' patient panels.6

The results demonstrate similar rates of receiving he moglobin A1c and LDL-C tests for black and white patients, whereas rates of achieving ideal and adequate control of hemoglobin A1c and LDL-C levels were significantly lower for black patients than for white patients. Adjustment for patients' sociodemographic factors explained 13% to 38% of observed disparities in achieving ideal control of hemoglobin Atc and LDL-C levels and blood pressure, whereas adjustment for patients' clinical factors (comorbid conditions) explained none of the observed differences. In contrast, within-physician effects explained a large proportion of observed differences for black and white patients. In this multispecialty group practice, poorer intermediate outcomes for black patients compared with white patients could not be explained by black patients seeing different physicians than white patients. Instead, the most important explanatory factor was that black patients had worse outcomes than white patients within the same physician panel. Given that process outcomes such as testing rates were similar, at least 2 potential reasons for the worse outcomes for black patients warrant additional exploration. First, it is quite possible that other aspects of care delivery (eg, medication teaching, communication) were worse for the black patients. Second, achieving good control of hemoglobin A., and LDL-C levels and blood pressure require actively engaged patients and support for sustained

- Growing demands for information about quality and outcomes of care offer an opportunity for physicians to make sure the quality enterprise:
 - Focuses on important patient outcomes
 - Incorporates the best science, and
 - Supplies practitioners with information needed to provide superb care in a timely fashion - every time



2008 AHRQ Annual Conference

"Promoting Quality - Partnering for Change"

September 7-10, 2008

<u>Bethesda North Marriott Convention Center Bethesda, MD</u>

Sessions on topics including the following:

- Prevention/Care Management
- Patient Safety and Health IT
- Implementation of research findings into changes in practice and policy

To Register: www.blsmeetings.net/2008ahrqannual