Paths to Health Equity

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CHALLENGES:

“THE ULTIMATE MEASURE OF A MAN IS NOT WHERE HE STANDS IN MOMENTS OF COMFORT AND CONVENIENCE, BUT WHERE HE STANDS AT TIMES OF CHALLENGE AND CONTROVERSY.” - MARTIN LUTHER KING, JR.
Key Health and Health Care Indicators by Race/Ethnicity and State

**FLORIDA**

- Infant Mortality Rate (per 1,000 live births):
  - White: 5.8
  - AA or Black: 12.9
  - Hispanic / Latino: 5.2

- Diabetes-Related Mortality Rate (per 100,000):
  - White: 20
  - AA or Black: 49.7
  - Hispanic / Latino: 13.6

2009 update
Disparities: Deadly & Persistent

TRENDS

What If We Were Equal? A Comparison Of The Black-White Mortality Gap In 1960 And 2000

Closing this gap could eliminate more than 83,000 excess deaths per year among African Americans.

by David Satcher, George E. Fryer Jr., Jessica McCann, Adewale Troutman, Steven H. Woolf, and George Rust

ABSTRACT: The United States has made great strides toward civil rights, housing, education, and income equality since 1960. The black-white mortality ratio was almost 2.0 in 1960 and actually worsened during the 1970s for ages thirty-five and older. In contrast, using death certificate data, an estimated 83,570 excess black deaths were occurring annually because of disparities, primarily among African Americans.

The 1985 task force report on the health of minority and non-Hispanic white populations raised nation-wide concern that 60,000 excess black deaths were occurring annually because of disparities, primarily among African Americans.
Persistent Disparities

Figure 3 Black-White Infant Mortality Rate Ratios: Florida and All Other U.S. States, 2001-2010

Racial Disparities in Infant Mortality Rates for Florida Compared to All Other States Combined 2001 through 2010
Division of Community Health Promotion; Florida Dept. of Health. June 2, 2014
Disparities = Human Tragedy
Unequal Outcomes = Human Tragedy
Equal Outcomes = Opportunity

A baby dies every day in Florida, who would not have died if we could eliminate the black-white infant mortality gap. There would have been 363 fewer black infant deaths in 2016 if the black infant mortality rate (11.6 per 1000) was reduced to that of white babies (4.3 per 1,000).

We could save a baby’s life every day in Florida if we could eliminate the black-white difference in infant death rates.
OVERWHELMED
Sure, I Can Handle the Load. No Problem.
What Is Health Equity?
Achieving Equity vs. Eliminating Disparities

Healthy People 2020
A society in which all people live long, healthy lives

Overarching Goals:

- Attain high quality, longer lives free of preventable disease, disability, injury, and premature death
- Achieve health equity, eliminate disparities, and improve the health of all groups
- Create social and physical environments that promote good health for all.
- Promote quality of life, healthy development and healthy behaviors across all life stages.
“The concepts of health equity and health disparity are inseparable in their practical implementation.”

-- Health Equity Institute, San Francisco State University
What is Health Equity?

Achieving health equity requires valuing everyone equally with focused and ongoing societal efforts to address avoidable inequalities, historical and contemporary injustices, . . .

. . . To eliminate health and health care disparities and attain the highest level of health for all people."
Equality vs. Equity

Giving the same or “equal” treatment won’t produce equity.

But equity demands that we do work to achieve equality of outcomes.
How Do We Measure Health Equity?
• Black-White racial inequalities in health outcomes cost Fulton County **28,022** excess years of potential life lost due to premature deaths.
Excess Cost Due to Racial Variation in Hospital Admissions by Disease *(mid-range estimate)*

<table>
<thead>
<tr>
<th>Disease</th>
<th>Excess Hospital Admissions (mid-range)</th>
<th>Hospital Charges Attributable to Excess Hospital Admissions (mid-range)</th>
<th>Payer Costs Attributable to Excess Hospital Admissions (mid-range)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asthma</td>
<td>2,044</td>
<td>$28,687,330</td>
<td>$13,339,608.45</td>
</tr>
<tr>
<td>Diabetes</td>
<td>3,955</td>
<td>$92,172,057</td>
<td>$42,860,006.51</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>5,021</td>
<td>$187,289,234</td>
<td>$87,089,493.81</td>
</tr>
<tr>
<td>&gt;Coronary Artery Disease</td>
<td>1,287</td>
<td>$65,156,724</td>
<td>$30,297,876.66</td>
</tr>
<tr>
<td>&gt;Congestive Heart Failure</td>
<td>5,868</td>
<td>$162,561,372</td>
<td>$75,591,037.98</td>
</tr>
<tr>
<td>HIV</td>
<td>1,644</td>
<td>$76,784,134</td>
<td>$35,704,622.31</td>
</tr>
</tbody>
</table>
Absolute rate vs relative rate-ratios

Progress toward **optimal** (best absolute rate)

Progress toward **equitable** (rate-ratio relative to best-outcome group, or other reference group).

What reference group?

**Objectives**—This report discusses six issues that affect the measurement of disparities in health between groups in a population:

- Selecting a reference point from which to measure disparity
- Measuring disparity in absolute or in relative terms
- Measuring in terms of favorable or adverse events
- Measuring in pair-wise or in summary fashion
- Choosing whether to weight groups according to group size
- Deciding whether to consider any inherent ordering of the groups.

These issues represent choices that are made when disparities are measured.
## Progress toward Optimal (Absolute) & Equitable (Relative) Outcomes

### Table 3. Top 16 Rankings on Optimal & Equitable Outcomes (2011-2013) and on Progress Toward Optimal & Equitable Outcomes (1999-2013)

<table>
<thead>
<tr>
<th>Absolute outcome (Closest to optimal)</th>
<th>% progress towards optimal</th>
<th>% progress towards equitable</th>
<th>Relative disparities (Closest to equitable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top 16 for lowest black IMR (absolute outcome)</td>
<td>Top 16 for % improvement in outcome (% decrease in black IMR)</td>
<td>Top 16 for % improvement in equality (decrease in b-w ratio)</td>
<td>Top 16 for lowest black-white IMR rate ratio (Best in relative outcome)</td>
</tr>
</tbody>
</table>

**Florida** Ranked 16th Lowest in absolute Black IMR  
Florida Ranked 24th Lowest in B-W Rate-Ratio
Discussion/Implications, Part 1

• Disparities are not inevitable
  – *Progress toward equality of outcomes is happening!*

• Progress is also not inevitable
  – *Rate of progress toward equality varies by state*
  – *Rate of progress even varies by county within each state*

• Progress can be measured
  – *Projected dates for achieving equality provide a benchmark against which acceleration of or slow-downs in progress can be measured.*
Discussion/Implications, Part 2

• Measures must be timely and granular
  – Community level action needs a rapid-cycle feedback loop to assess impact
  – User-friendly, actionable data must be available at the geographic level at which communities identify themselves.

• Positive Deviance Model / Paths to Health Equity
  – We can learn from communities making the most progress
  – The road out may not be the same as the road in – focus on paths to health equity rather than risk factors and “determinants” of disparities.
What Drives Health Inequities? (Health Disparities)?
“Determinants” of Disparities

- Poverty & Social Determinants
- Individual Health Behaviors
- Environmental Conditions
- Unequal Access & Quality of Care

Unequal (Disparate) Outcomes
- Worst
- Minority
- Average
- Majority
- Best / Optimal

Health Potential
Social Determinants Trump Everything!
Poor Outcomes are Rooted in Clinical & Behavioral and Social Complexities
Does Medical Care Really Matter?

“Medical Care only accounts for 10% of health status . . .”
Age-adjusted heart disease mortality rates per 100,000 (1950–2000).

Success is not Shared Equally –
Unequal Diffusion of Innovation exacerbates disparities


The Gerontological Society of America
What accounted for the successful reduction in mortality (>50% in 50 years) for most of these conditions?

<table>
<thead>
<tr>
<th>Condition</th>
<th>Year 1950 Rate</th>
<th>Highest Rate (Peak Year)</th>
<th>Lowest Rate (Trough Year)</th>
<th>Year 2000 Rate</th>
<th>Decline From Peak Year, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke</td>
<td>180.7</td>
<td>180.7 (1950)</td>
<td>60.9 (2000)</td>
<td>60.9</td>
<td>66.3</td>
</tr>
<tr>
<td>Heart disease</td>
<td>586.8</td>
<td>586.8 (1950)</td>
<td>257.6 (2000)</td>
<td>257.6</td>
<td>56.1</td>
</tr>
<tr>
<td>Gastric cancer</td>
<td>24.2</td>
<td>24.2 (1950)</td>
<td>4.6 (2000)</td>
<td>4.6</td>
<td>81.0</td>
</tr>
<tr>
<td>HIV</td>
<td>...</td>
<td>16.3 (1995)</td>
<td>5.2 (2000)</td>
<td>5.2</td>
<td>67.9</td>
</tr>
<tr>
<td>Tuberculosis</td>
<td>25.5</td>
<td>25.5 (1950)</td>
<td>0.2 (2000)</td>
<td>0.2</td>
<td>91.4</td>
</tr>
<tr>
<td>Syphilis</td>
<td>6.1</td>
<td>6.1 (1950)</td>
<td>0.0 (2000)</td>
<td>0.0</td>
<td>100</td>
</tr>
<tr>
<td>Influenza and pneumonia</td>
<td>48.1</td>
<td>48.1 (1950)</td>
<td>23.7 (2000)</td>
<td>23.7</td>
<td>50.7</td>
</tr>
<tr>
<td>Unintentional injuries</td>
<td>78.0</td>
<td>78.0 (1950)</td>
<td>34.9 (2000)</td>
<td>34.9</td>
<td>55.3</td>
</tr>
</tbody>
</table>
Adoption S

Isolated or disenfranchised or non-majority cultural groups
How Do We Target Specific Health Disparities?
Figure 10. Death rates per 100,000 population from leading causes of death among persons 25–44 years old, United States, 1987–2000

HIV-Disparities Increase with Breakthrough Treatments

Black-White Rate Ratio of HIV-Specific YPLL-75 Rates in Fulton-Dekalb
Racial, gender and geographic disparities of antiretroviral treatment among US Medicaid enrollees in 1998

W D King, P Minor, C Ramirez Kitchen, L E Oré, S Shoptaw, G D Victorianne, G Rust

ABSTRACT
Background: In 1998, highly active antiretroviral therapy (HAART) was widespread, but the diffusion of these life-saving treatments was not uniform. As half of all AIDS patients in the USA have Medicaid coverage, this study of a multistate Medicaid claims dataset was undertaken to assess disparities in the rates of HAART.
Methods: Data came from 1998 Medicaid claims files from five states with varying HIV prevalence. ICD-9 codes were used to identify people with a diagnosis of HIV/AIDS or AIDS-defining illness. Multivariate analyses assessed associations between age, gender, race and state of residence for antiretroviral regimens consistent with HAART, as defined by 1998 Centers for Disease Control and Prevention (CDC) guidelines.
Results: Among 7202 Medicaid enrollees with a diagnosis of HIV/AIDS or AIDS, 62% received HAART and 25% received no antiretroviral therapy. Multivariate analyses showed that age, race, gender and state were

The Potential for Elimination of Racial-Ethnic Disparities in HIV Treatment Initiation in the Medicaid Population among 14 Southern States

Shun Zhang, Shanell L. McGoy, Daniel Dawes, Mesfin Fransua, George Rust, David Satcher

1 National Center for Primary Care, Morehouse School of Medicine, Atlanta, Georgia, United States of America, 2 Satcher Health Leadership Institute, Morehouse School of Medicine, Atlanta, Georgia, United States of America, 3 Office of the President, Morehouse School of Medicine, Atlanta, Georgia, United States of America, 4 Department of Medicine, Morehouse School of Medicine, Atlanta, Georgia, United States of America

Abstract

Objectives: The purpose of this study was to explore the racial and ethnic disparities in initiation of antiretroviral treatment (ART) among HIV-infected Medicaid enrollees 18–64 years of age in 14 southern states which have high prevalence of HIV/AIDS and high racial disparities in HIV treatment access and mortality.

Methods: We used Medicaid claims data from 2005 to 2007 for a retrospective cohort study. We compared frequency variances of HIV treatment uptake among persons of different racial-ethnic groups using univariate and multivariate methods. The unadjusted odds ratio was estimated through multinomial logistic regression. The multinomial logistic regression model was repeated with adjustment for multiple covariates.

Results: Of the 23,801 Medicaid enrollees who met criteria for initiation of ART treatment, only one third (34.6%) received ART consistent with national guideline treatment protocols, and 21.5% received some ARV medication, but with suboptimal treatment profiles. There was no significant difference in the proportion of people who received ARV treatment between black (35.8%) and non-Hispanic whites (35.7%), but Hispanic/Latino persons (26%) were significantly less likely to receive ARV treatment.

Conclusions: Overall ARV treatment levels for all segments of the population are less than optimal. Among the Medicaid population there are no racial HIV treatment disparities between Black and White persons living with HIV, which suggests the potential relevance of Medicaid to currently uninsured populations, and the potential to achieve similar levels of equality within Medicaid for Hispanic/Latino enrollees and other segments of the Medicaid population.
Unequal Benefit – Breast Cancer
Disparities Amplified at Each Level of Care

**Biologic Differences**
- Age at Diagnosis
- Receptor Status (TNC)

**Screening Disparities**
- Mammography ever
- Mammography in past 2 years

**Stage at Diagnosis**

**Stage-Specific Treatment Disparities**
- Quality Indicators
- Provider Outcomes

**Outcome Disparities**
- Mortality
- Disability
- Relapse
- Remission
- Disease-Free Survival
Complex Problems Require Complex, Coordinated Interventions!

Example: To eliminate disparities in complications of obesity and diabetes, **all you have to do** . . . .

. . . . is modify a person’s health beliefs and attitudes, daily habits, eating preferences, daily activities, exercise habits, grocery stores, neighborhood walk-ability, food advertising, self-care, employability, economic empowerment, access to medical care, clinical inertia, provider quality, and medication adherence, all in the context of his or her family and social relationships.
Tying it All Together to Achieve Health Equity

- Social Determinants of Health
- Community Leadership & Resiliency
- Community Health & Economic Development
- Health Behaviors
- Health Care
- Health Outcomes
Are There Paths to Health Equity?
Triangulating on Health Equity!

Innovation

Social Determinants

Public Health & Health Promotion

Primary Care / Medical Care

Optimal & Equitable Health Outcomes for All !!!
Primary Care -- Healing Whole Persons with our “Radical Human Presence”

“Radical Human Presence”, phrase used in a presentation called “How the Heart Learns” by Landon Saunders; AAMFT, 2004 annual mtg.

- Listening
- Touching
- Affirming
- Comforting
- Diagnosing
- Treating
- Grieving
- Supporting
- Healing
Community Health as Community Development

- Leadership Development
- Economic Development
- Health Development
- Educational Empowerment
- Political Empowerment

https://www.slideshare.net/JimBloyd/physicians-health-reform-and-health-equity-when-we-fight-we-win
Community as Our Partners & Teachers
“The physician is the natural attorney for the poor.”

“Medicine is a social science, and politics is nothing more than medicine on a grander scale.”

-- Rudolf Virchow, 1848
John Kania & Mark Kramer first wrote about collective impact in the Stanford Social Innovation Review in 2011 and identified five key elements:

http://www.collaborationforimpact.com/collective-impact/
Will We Ever Achieve Health Equity?

When Will We Get There?
Florida Forecast for Achieving Racial Equality in Infant Mortality

[Graph showing trends in Infant Mortality Rates (IMR) for Black and White populations in Florida, with a convergence year forecasted for 2023.]
Naively Optimistic?

• The United Nations has established 17 Sustainable Development Goals:
  – No Poverty
  – Zero Hunger
  – Good Health & Well-Being

The campaign to eradicate smallpox eradication from the world began in 1966. In 1972 this poster indicated that the objective was in sight, and would perhaps be achieved within 2 years. Worldwide smallpox eradication was ultimately achieved in 1980.
The world is on track to decrease child mortality by another 50% by 2030.
“Living through the Civil Rights movement showed me that I could be a part of change. I realized then that you don’t have to accept things the way they are.”

-- David Satcher, MD, PhD
Making Health Equity a Reality

Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has.

-- Margaret Mead

If we know enough . . .
If we care enough . . .
If we do enough . . .
and if we stay at it long and hard enough.

-- Dr. David Satcher
16th U.S. Surgeon General
Working Together

“We are all as angels, with only one wing;
We can only fly when we embrace each other.

-- Luciano de Crescenzo