



Inequality in Quality: Addressing Socioeconomic, Racial, and Ethnic Disparities in Health Care

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Case Study

- Juana is a 54 year old woman with a history of back surgery who presents to the ED with severe low back pain. She has a limited history and physical exam. She is given a shot of IV Valium and discharged with the diagnosis of “chronic low back pain” with follow-up in one-week to her PCP.



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JUANA
1/21/01 580552

08
EMERGENCY PHYSICIAN RECORD
Low Back Pain / Injury (5)

TIME SEEN: 8:00 ROOM: 18 EMS Arrival

HISTORIAN: patient spouse paramedics
 HX / EXAM LIMITED BY: transported by family

HPI chief complaint: back pain / injury chronic back pain

started (occurred): chronic continues in E.D.
Novel exact X1-back better
seen for fracture gone now
 intermittent
 worse

recent injury? no yes possibly

how (context)? lifting turning / bending fall / near-fall trauma
in MVC x3 - last one
3rd person the auto
back in Potomac Hosp
 when? as above 20 W/C on bed
 where? home work school Vitamins
 other injuries? neck head other

Similar symptoms previously 09/01 x 3 yr
 Recently seen / treated by doctor 2 days ago

ROS
 GU trouble w/ urination frequent urination blood in urine
 OTHER fever subjective / to °F chills
 Women LNMP vaginal bleeding

NEURO head dizziness ENT PI sore cough throat chest GI abdo nausea vomit diarrh black

Case Study

- Follow-up: Juana comes to clinic the next morning screaming and crying in pain. She is carried in a chair by her sons to get upstairs to our clinic. Her physical exam reveals a L5 sensory deficit. She has urinary incontinence. She is sent in an ambulance with her children to local hospital. She required emergency back surgery for a herniated disc.



Overview

- Disparities in health: the big picture
- Voltage drops in achieving quality of care
- Implications and future directions

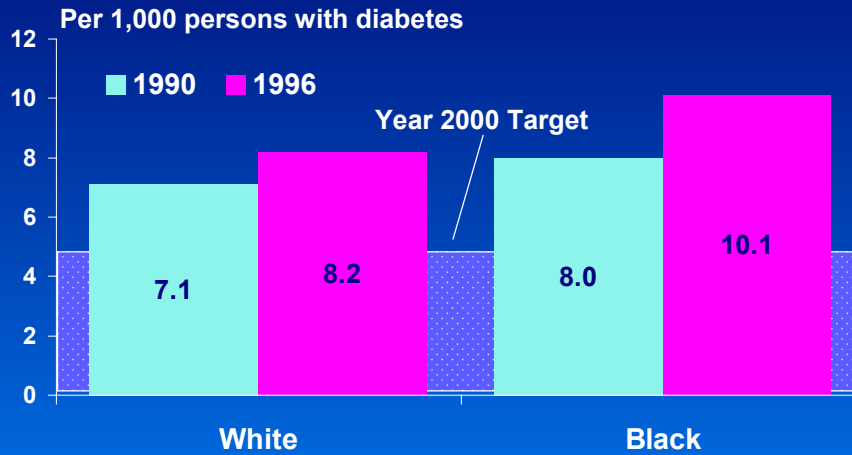


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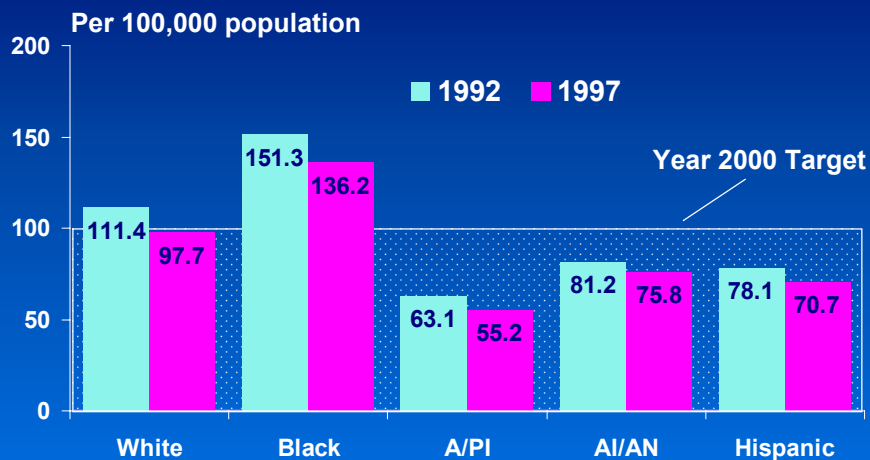
Lower Extremity Amputations Due to Diabetes



NOTE: Because of incomplete and inaccurate reporting of race, only white, black and "other" races are reported by the National Hospital discharge Survey.
SOURCE: CCD NCHS, National Health Interview Survey and National Hospital survey.



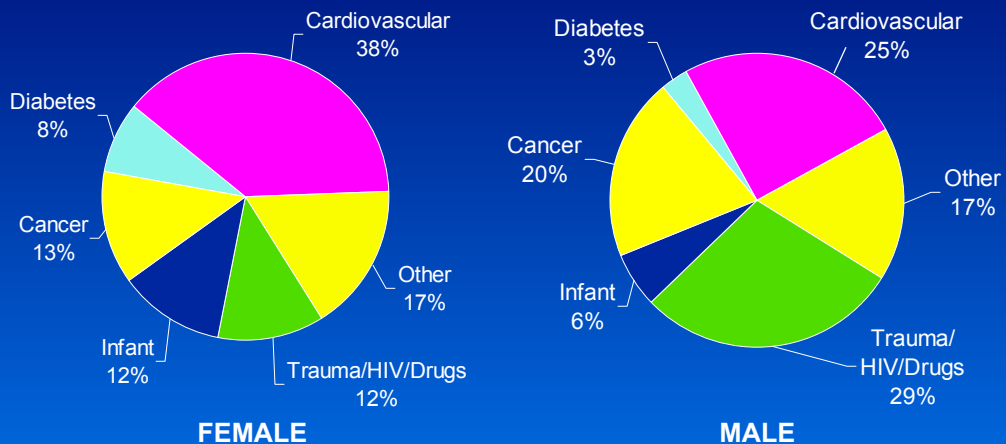
Coronary Heart Disease Death Rates



NOTE: Death rates are age adjusted to 1940 standard million age distribution.
A/PI is Asian or Pacific Islander, AI/AN is American Indian or Alaska Native.
SOURCE: CCD NCHS, National Vital Statistics system



Causes of Excess Deaths Among African Americans



Source: Himmelstein & Woolhandler – Analysis of data from NCHS

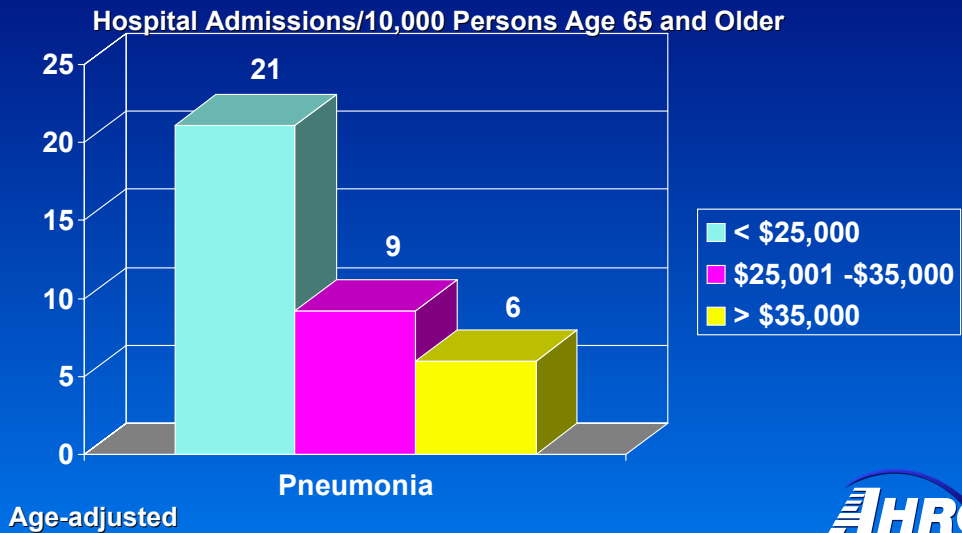


Non-clinical Determinants of Health Outcomes

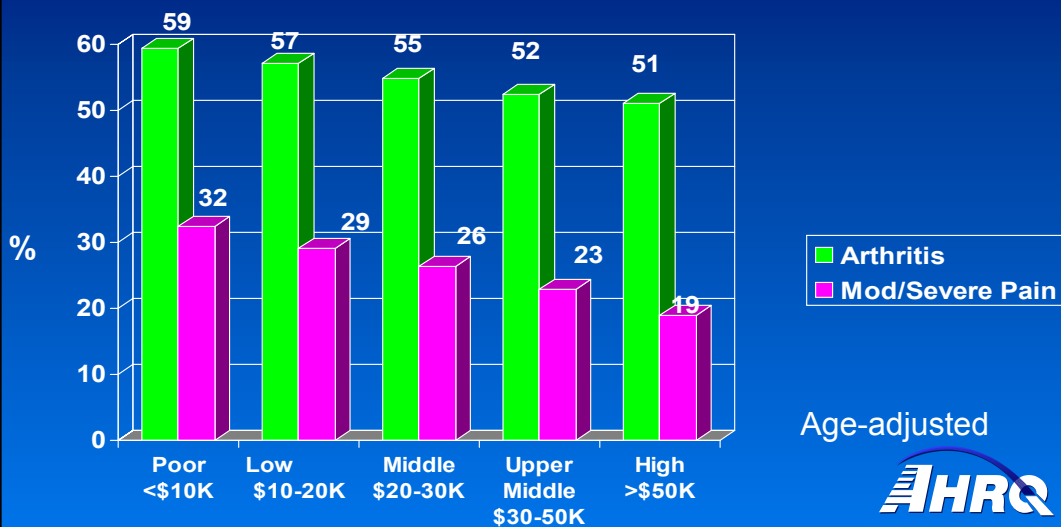
- Patient characteristics
- Practitioner characteristics
- Hospital or setting characteristics
- Patient preferences
- Reimbursement



Vaccine Preventable Pneumonia Variation by Zip Code Income



Income and Arthritis



Reperfusion Therapy in Medicare Beneficiaries with Acute MI

Group	% Eligible receiving reperfusion
White men	59%
White women	56%
Black men	50%
Black women	44%

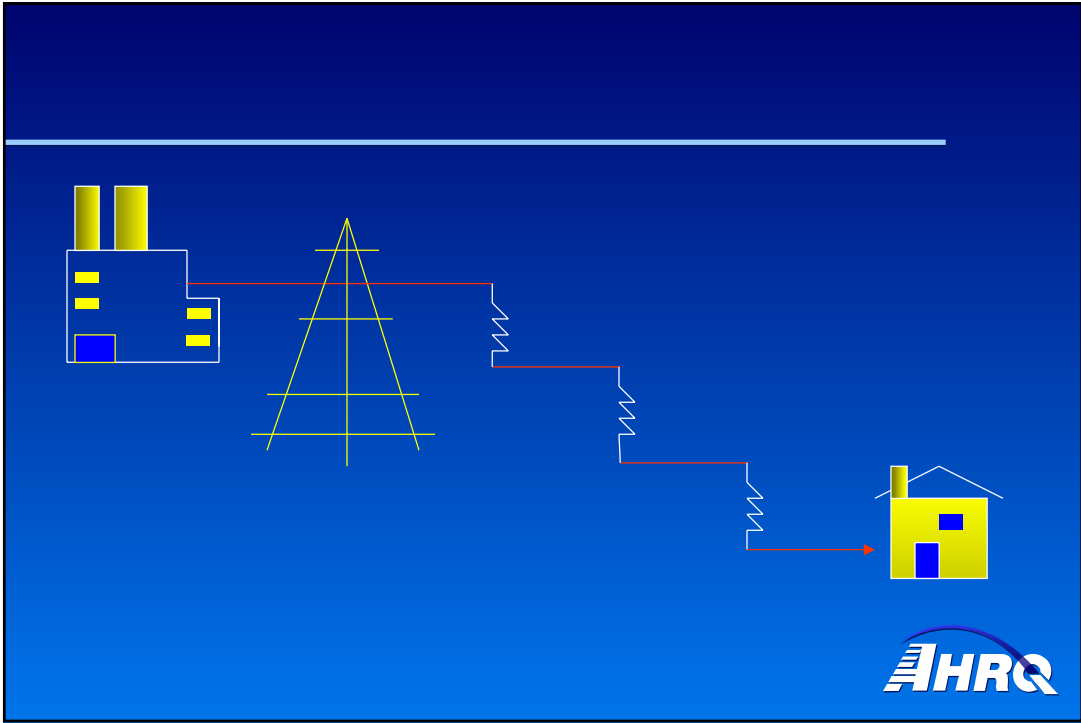
Canto JG; Allison JJ; Kiefe CI; Fincher C; Farmer R, Sekar P; Person S; Weissman NW. Relation of race and sex to the use of reperfusion therapy in Medicare beneficiaries with acute myocardial infarction. N Engl J Med 2000 Apr 13;342(15):1094-100.



Overview

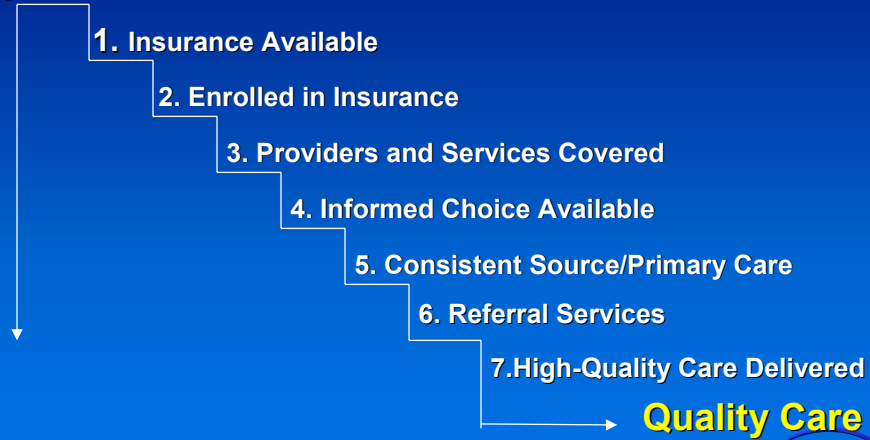
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Voltage Drops to Quality

Population



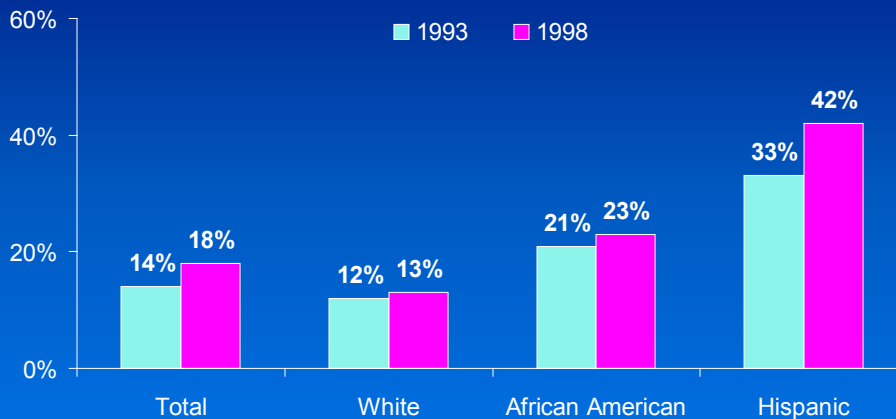
Working Uninsured: 1987 and 1996 (Under 65)

	1987	1996
Households WITH a working adult	76.9%	86.9%
NO working adult	23.1%	13.1%



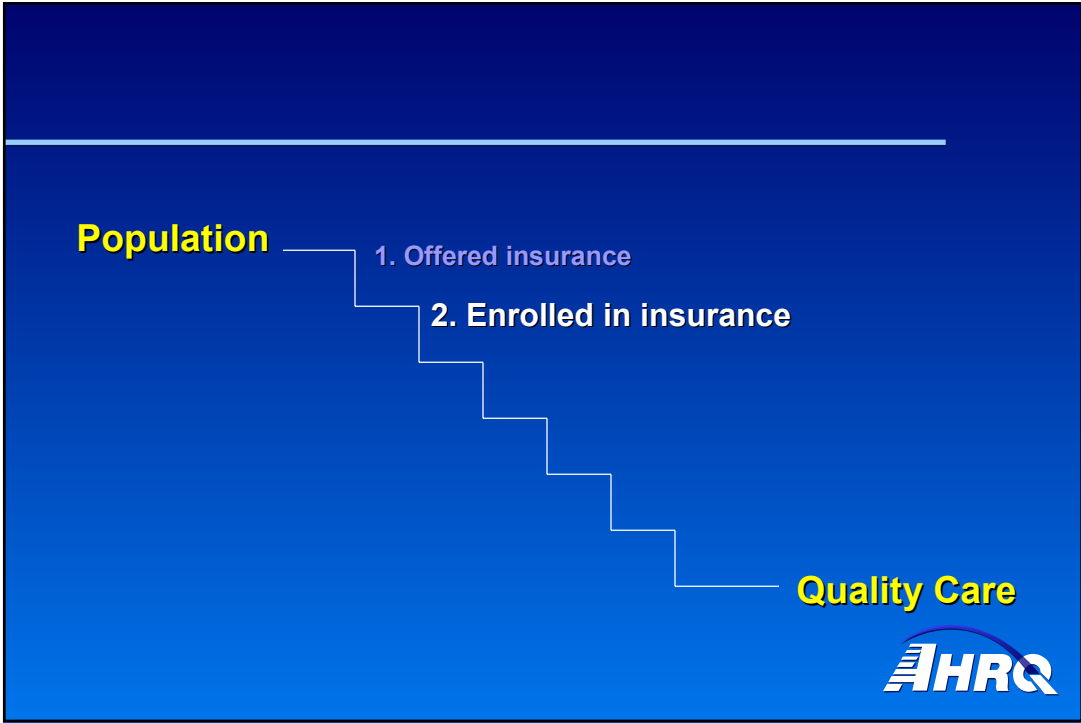
Uninsured Trends by Race/Ethnicity, 1993-98 Women Ages 18-64

Percent of women who are uninsured



The Commonwealth Fund 1993 and 1998 Surveys of Women's Health



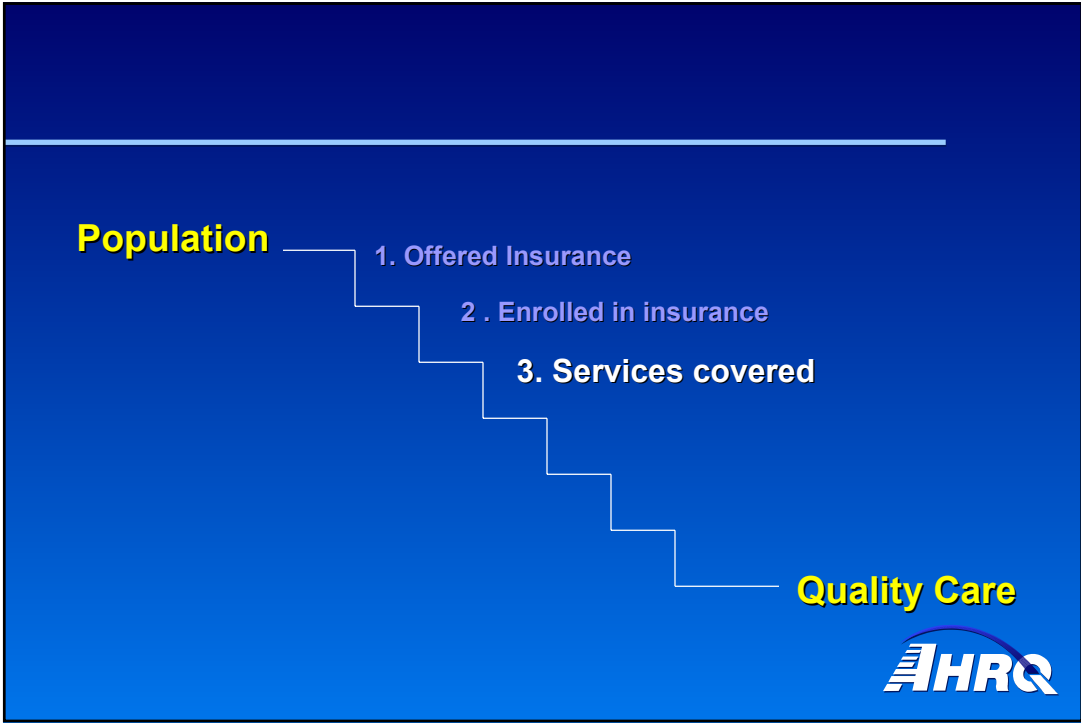


Estimates of Uninsured Children Eligible for CHIP

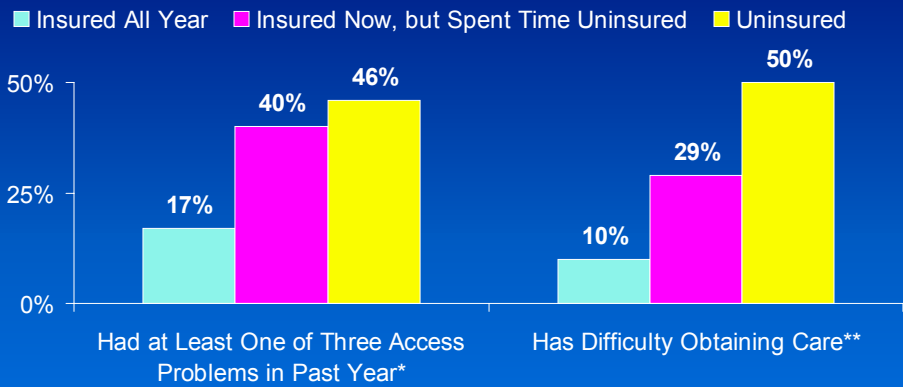
<u>Eligibility criterion</u>	<u>Number of uninsured children</u>
Federal maximum CHIP income thresholds	3.1 million
Income thresholds at 300% of poverty level	5.2 million
Thresholds in state plans as of August 1998	2.6 million

Source: T.M. Selden et al., 1999; *Health Affairs* 18:126-133





Access to Health Care by Insurance Status, 1998 Women Ages 18-64



* Reported a time they did not get needed care or specialty care or did not fill a prescription because of cost.

** Reported getting care when needed is "extremely," "very," or "somewhat" difficult.

The Commonwealth Fund 1998 Survey of Women's Health



Population

1. Offered insurance
2. Enrolled in insurance
3. Services covered
4. Usual care source

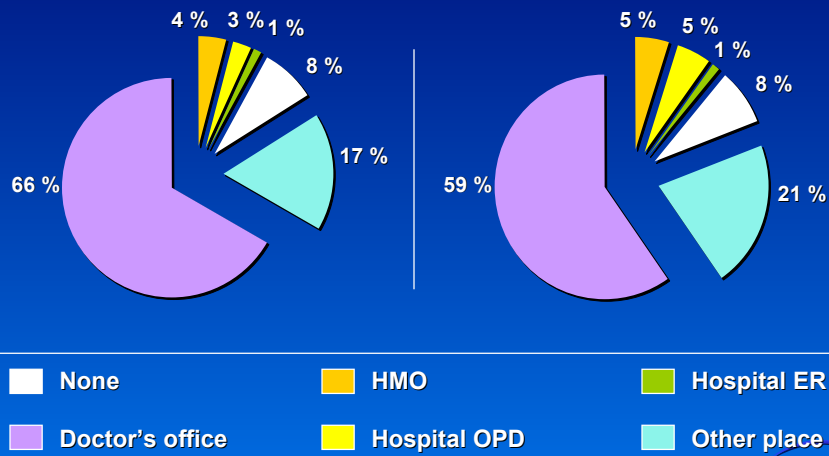
Quality Care
AHRQ

Regular Source of Care

- Regular source of care --> higher use of preventive services
- Women with no source die younger
- Multiple sources ---> higher use of preventive services, but increased opportunities for gaps and lack of coordination
- Women with a female source more likely to receive Pap smears, mammograms

AHRQ

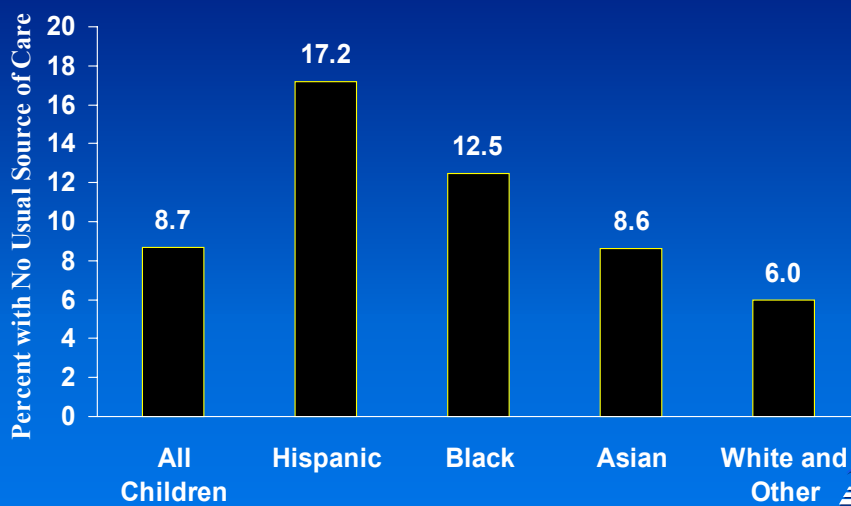
Usual Source of Care for Adults, 1987 and 1992



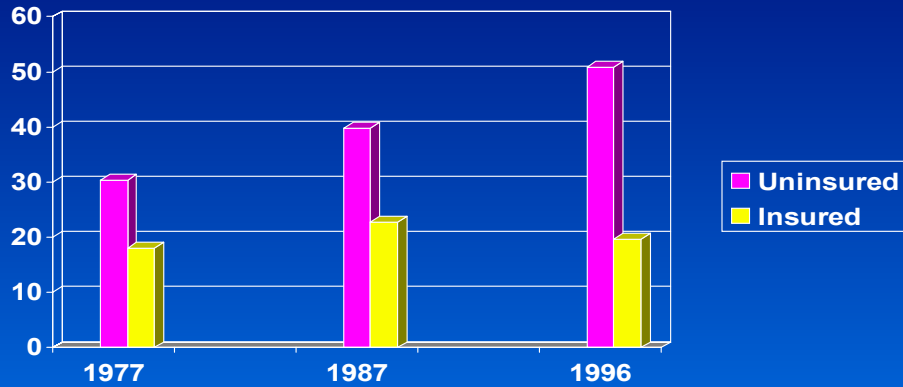
Source: Moy E et al., J. Health Care for the Poor and Underserved 1998; 9:126



Figure 1. Percent of American Children with No Usual Source of Care by Race/Ethnicity, 1996



Percent of Hispanics With No Usual Source of Care, 1977-1996



Source: S.H. Zuvekas and R.M. Weinick, 1999;
Health Services Research 34 (part II):271-279



Population

1. Offered insurance

2. Enrolled in insurance

3. Services covered

4. Usual care source

5. Referral services

Quality Care



Predictors of Referral for Cardiac Catheterization

<u>Variable</u>	<u>Odds ratio</u>
Male	1.0
Female	0.6
White	1.0
Black	0.6
White male	1.0
Black female	0.4

Source: K.A. Schulman et al., *New Eng J Med* 340:618, 1999



Population

1. Offered insurance

2. Enrolled in insurance

3. Services covered

4. Usual care source

5. Referral services

6. Choice of
care **Quality Care**



Patients' Choices and Health Care Delivery

- *Which plan*
- *Who to see*
- *When to seek care*
- *How to respond*
- *Where to get information*
- *What to believe*
- *How to live with the illness(es)*



Race and Treatment n = 1832 Women Rx in 1994

	Blacks*	Whites
Stage 1	48%	56%
2a	37	34
2b	16	10
BCS+RT	20	25
BCS	12	10
MST	69	65
Area % 65+ < Poverty	15	12
Area % HS	64	68
Mean Age	74 yrs	75 yrs

* All Race Differences p < .05



Underuse of Appropriate Services: Nursing Home Residents

Percent with characteristic (unadjusted)

	<u>White</u>	<u>African- American</u>	<u>Asian American</u>	<u>Hispanic</u>
No visual aids	29	59	60	59
No communication devices	71	94	90	91
Untreated pain	27	39	39	41

Source: Zierler S., "Racial Disparities in the Quality of Nursing Home Care," final report, grant no. R03 HS09552



Racial and Ethnic Minority Views on Patient Safety

	Blacks (n=219)	Hispanics (n=208)	Whites (n=1492)
“Very concerned” about errors or mistakes happening when receiving health care in general	71%	45%	43%
receiving care at a hospital	62	57	44
Say the government should be involved in promoting, monitoring, or providing information about quality of care	79	69	60
Reporting of medical errors should be done on a voluntary basis to ensure the privacy of patients and staff involved	32	29	19

Source: Kaiser Family Foundation / Agency for Healthcare Research and Quality *National Survey on Americans as Health Care Consumers: An Update on The Role of Quality Information*, December 2000 (Conducted July 31-Oct. 13, 2000)



Contribution to Disparities

- Even if income and health insurance coverage were equalized, differences in access to and use of health services would not be eliminated
- One-half to three quarters of these disparities are not explained by these factors
- Difficult to identify a single factor that would resolve racial/ethnic disparities

Weinick and Zuvekas, *Med Care Research and Review*, 2000



Contribution to Disparities

- Job-related and nonfinancial barriers to access
- Lack of cultural and linguistic competency among providers
- Geographic distribution of providers
- Discrimination with health care system
- Perceptions of discrimination

Weinick and Zuvekas, Med Care Research and Review, 2000



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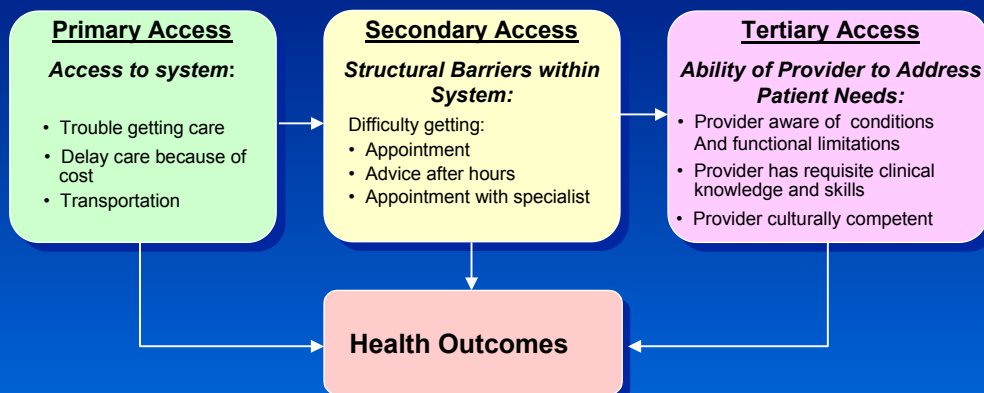


Four Levels of Interventions to Eliminate Inequalities in Health

- Improve the physical environment
- Address social and economic factors
- **Improve access to appropriate and effective health and social services**
- Reduce barriers to adopting healthy lifestyles
changing behavioral risk factors

Benzaval et al, Tackling Inequalities in Health: an agenda for action. London: King's Fund, 1995

Access, Quality, and Outcomes



Bierman et al. JACM 1998



Inequality in Quality

- Growing emphasis on public reporting on clinical performance (process measures)
- Concern about perverse incentives
- Increased enrollment of publicly funded beneficiaries in managed care arrangements
- Disparities not widely perceived to be an essential component of poor quality

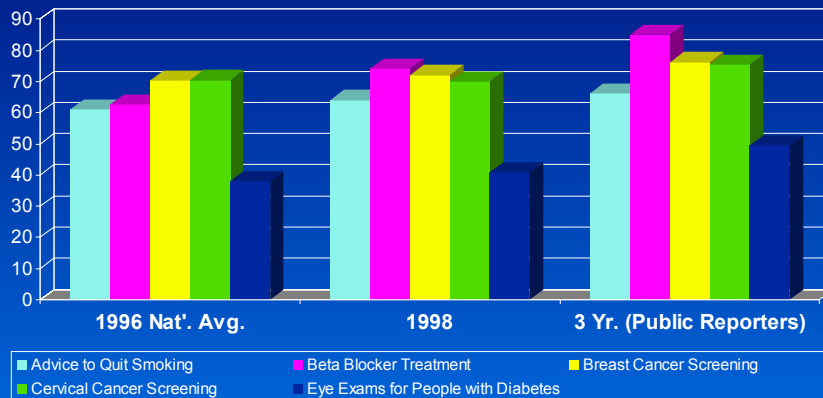


Inequality in Quality: Principles

- Disparities associated with socioeconomic position, race and ethnicity represent a critical quality opportunity
- Need for relevant and reliable data
- Performance measures should be *stratified*
- Population-wide measures should be *adjusted*
- Account for SEP **and** race / ethnicity



NCQA's State of Managed Care Quality



Source: NCQA, Washington, DC



Implementation Challenges

- Leadership (multifocal)
- Absence of data
- Privacy and data collection concerns and strategies
- Misuse of data
- Health care organization resistance and inertia



Public Reporting

- Is it possible?
- Is it meaningful?
- **Is it fair? (is it fair NOT to stratify by race, ethnicity and socioeconomic position?)**
- Is it feasible?



Public Reporting

- Is it possible?
- Is it meaningful?
- Is it fair?
- **Is it feasible? (Efficient strategies for requisite data collection needed; “business case”; perceptions of fairness)**



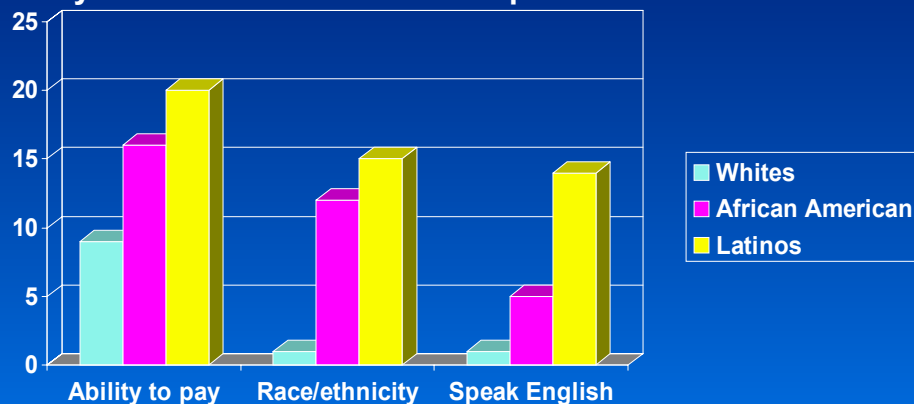
Stakeholders' Interests

- Employers concerned about employees' quality of care (WBGH)
- Payors: want quality care -- at the lowest cost possible
- Providers (Aetna has recently joined public and private research organizations)
- Clinicians want to provide the best quality of care possible
- Patients / consumers



Patient Experiences with the Health Care System

Percent who say that they have felt that a doctor judged them unfairly or treated them with disrespect because of ...



Kaiser Family Foundation Survey of Race, Ethnicity, and Medical Care
October 1999



Persistent Controversies

- What proportion of observed disparities are attributable to health *care*?
- Boundaries of accountability
- Is less more?
- Do we know enough to intervene?



Conclusions

- Disparities in health *care* = a critical quality improvement opportunity
- NOT considering disparities associated with race, ethnicity and SES may:
 - undermine quality measurement efforts
 - deprive us of scientific knowledge
 - result in mis-allocation of resources for improvement

