



# **Transforming Health Care Delivery: The Importance of Care Coordination to Population Health**

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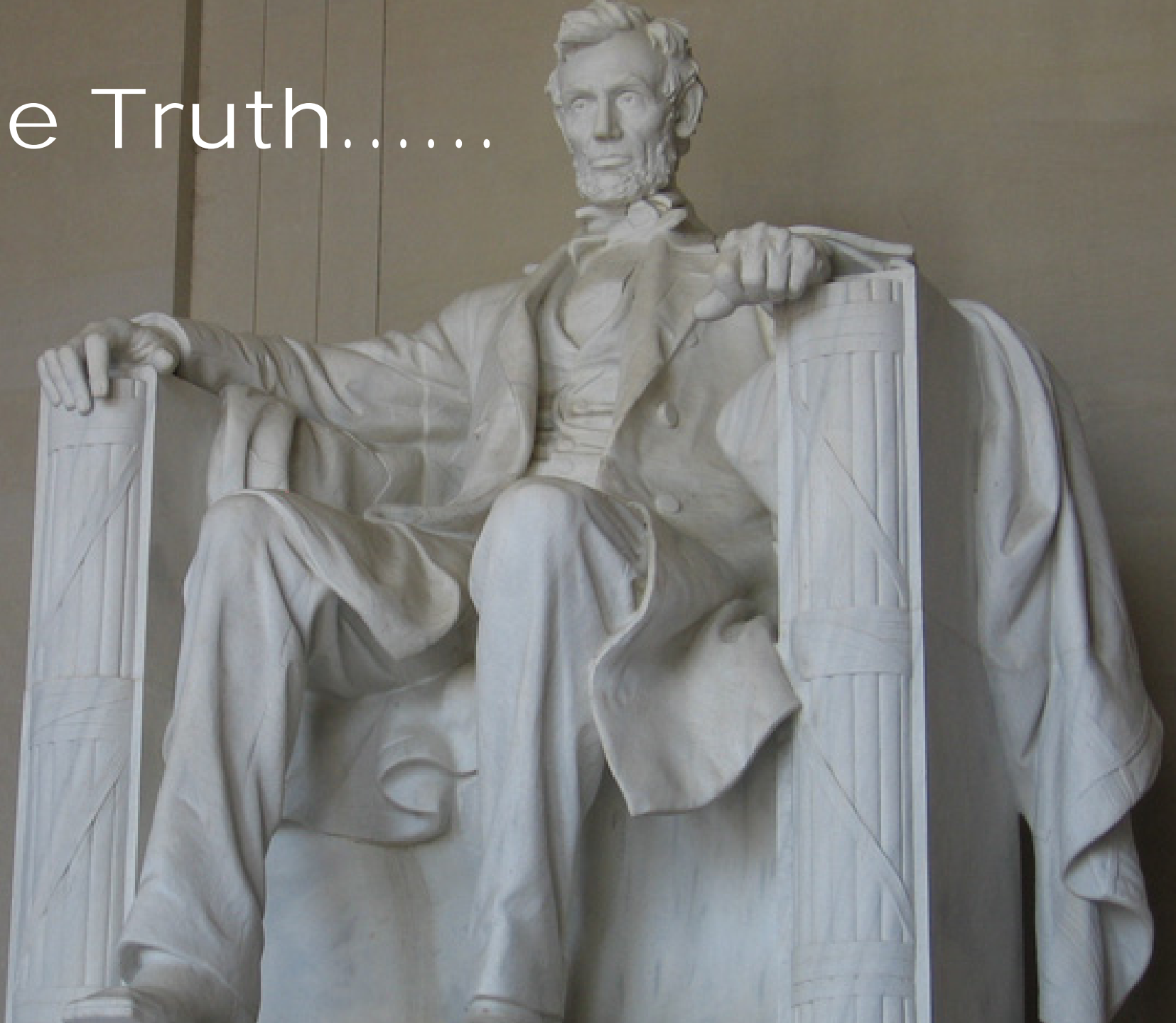
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Past President, American Cancer Society

The Truth.....



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Our nation's health is  
unconscionably poor

We are the 9th heaviest nation on earth...



...resulting in 30% of our rising health care costs



We are the most  
disparate high  
resource  
country.....

.....with the highest  
income gap  
between highest &  
lowest quintiles



A higher percentage of U.S. occupants live alone than in any high resource nation in the world....

....and unmarried men, living alone, have a 10 year shorter life expectancy than married men





Tobacco use has declined...



...but percent of new adolescent smokers has stabilized

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And, yes, we spend more money per person on health care than any other nation ....

....but rank 28<sup>th</sup> in healthy life expectancy

[www.americashealthranking.org/2008](http://www.americashealthranking.org/2008)



....and 19<sup>th</sup> in age-adjusted amenable mortality rates....out of 19 OECD (high resource) nations

[www.americashealthranking.org/2008](http://www.americashealthranking.org/2008)

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....and 39<sup>th</sup> in infant mortality rates

[www.americashealthranking.org/2008](http://www.americashealthranking.org/2008)

And that's not all...

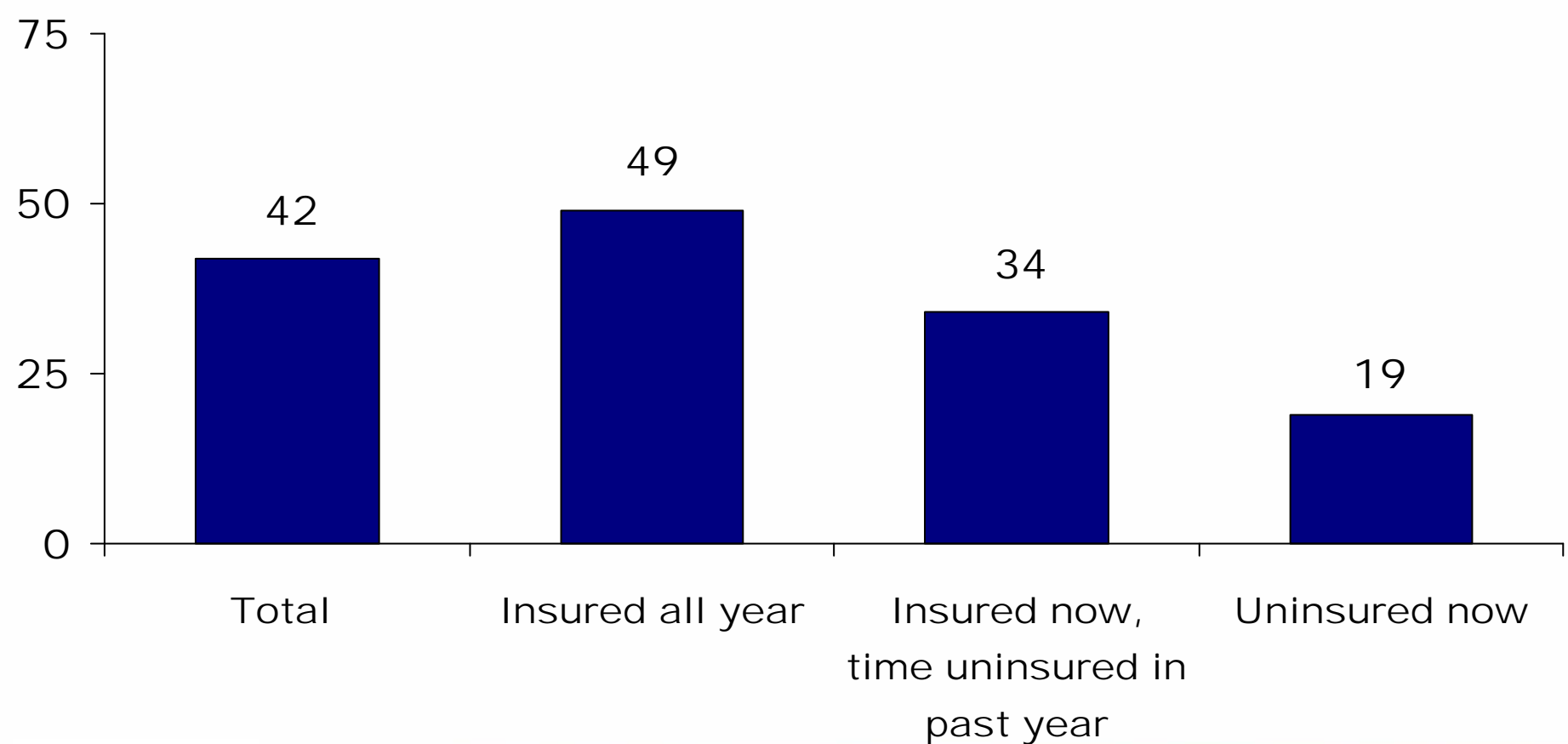
Without disruptive,  
dramatic health care  
insurance reform, today's  
45,000,000 uninsured  
Americans will grow to  
54,000,000 by 2019

[www.cbsnews.com/stories/2009](http://www.cbsnews.com/stories/2009)



# Only Two of Five Americans Are Very Satisfied with the Quality of Health Care

Percent of adults ages 19–64 who are very satisfied



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Our economic crisis and our health crisis are inextricably linked

It is our health, not just our health care system that is frighteningly poor

# Causes Of Rising Health Care Costs

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## Popular nominations

- Defensive medicine
- Aging of the population
- American attitude

## The True Causes

- Misaligned incentives
- Payment for volume of care and procedures
- Commercialization and profit seeking
- Emerging chronic illness burden

# Rising Costs: The Bitter Truth

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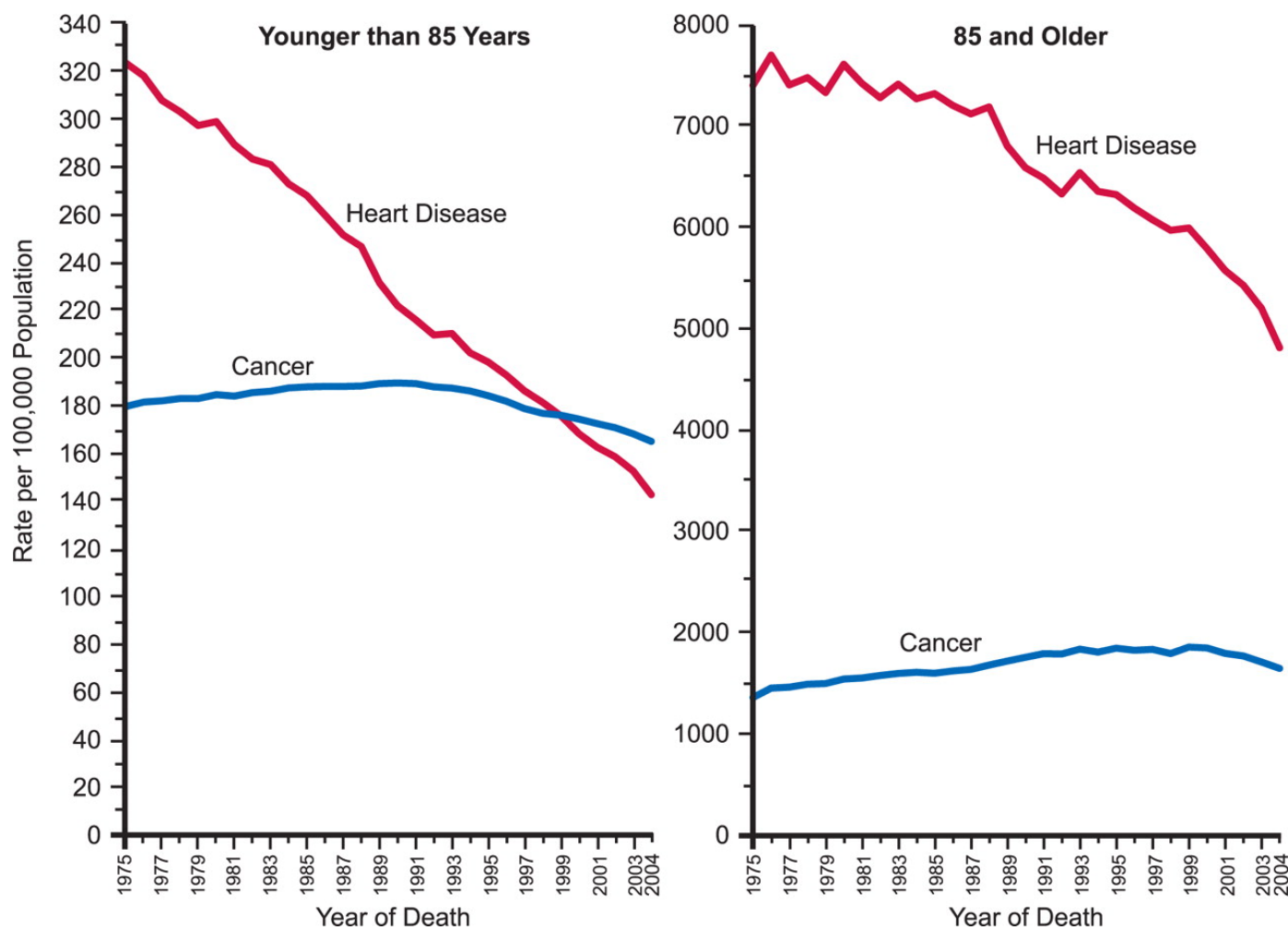
Ultimately, Costs Are Going Up  
Because Medical Interventions  
Actually.....



***Work***



**FIGURE 6 Death Rates\* for Cancer and Heart Disease for Ages Younger than 85 and 85 and Older, 1975 to 2004**



From Jemal, A. et al.  
CA Cancer J Clin 2008;58:71-96.



Simply delivering the preventive  
and management services that are  
proven to work, can save millions  
of lives

# The Impact of Prevention on Reducing the Burden of Cardiovascular Disease

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- 78% of adults ages 20-80 are eligible for a prevention activity
- If 100% received these activities, 63% fewer MI's and 31% fewer CVA's would occur
- Bridging just half of the quality gap can prevent 36% of MI's and 20% of CVA's

Kahn R, Robertson RM, Smith R, Eddy D. Circulation 2008; 118:576-585

INSTITUTE OF MEDICINE



# CROSSING THE QUALITY CHASM

A New Health System for the 21st Century

# Crossing the Quality Chasm

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## **Recommendation 1:**

All health care organizations ... should adopt as their explicit purpose to continually reduce the burden of illness, injury and disability, and to improve the health and functioning of the people of the United States

## **Recommendation 2:**

All health care organizations ... should pursue six major aims: specifically, health care should be safe, effective, patient-centered, timely, efficient and equitable



“Clinicians and institutions should actively collaborate and communicate to ensure an appropriate exchange of information and **coordination of care.**”

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**Researchers at AHRQ  
contracted with Stanford to  
conduct a comprehensive  
review of care coordination.  
They propose this definition:**

“Care coordination is the deliberate organization of patient care activities...to facilitate the appropriate delivery of health care services.”

Closing the Quality Gap: A Critical Analysis of Quality Improvement Strategies  
Technical Review (Publication No. 04(07), 0051-7) June 2007

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This definition encompasses  
many diverse approaches and  
components

# Does Care Coordination Improve Health?

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Multiple systematic reviews provide evidence of patient benefit resulting from:

- multidisciplinary teams
- disease management
- case management

# Care Coordination Works

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- Improved service continuity for severely mentally ill patients
- Reduced mortality and hospital admissions for patients with CAD
- Symptom reduction for terminally ill patients
- Reduced mortality and dependency in stroke patients
- Reduced glyco-hemoglobin levels

*And many others*

# Who Should Coordinate Care?

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- Care coordination in its various forms has been provided by many entities:
  - Payers
  - Hospital case managers
  - Care management companies
  - Public health agencies
  - Foundations



# Care Coordination Works – But We Provide It Inconsistently

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Most Americans can only get care coordination if they:

Have a specific condition ... and are insured by a specific plan ... or are part of a specific public health program or experiment

# How Can We Provide Care Coordination for All?

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Primary care practices as care coordinators ...

an appealing idea

# A Focus on Primary Care is Associated With:

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- Better health outcomes
- Lower costs
- Greater equity in health

## **An orientation to primary care reduces sociodemographic and socioeconomic disparities (inequities)**

- In access to health services
- In population health

# More specialists mean higher spending

## EXHIBIT 7

### Relationship Between Provider Workforce And Medicare Spending: Specialists Per 10,000 And Spending Per Beneficiary In 2000



Specialists per 10,000

**SOURCES:** Medicare claims data; and Area Resource File, 2003.

**NOTE:** Total physicians held constant.

# While GPs are associated with less spending

## EXHIBIT 9

### Relationship Between Provider Workforce And Medicare Spending: General Practitioners Per 10,000 And Spending Per Beneficiary In 2000

Spending per beneficiary (dollars)

8,000

7,000

6,000

5,000

4,000

1

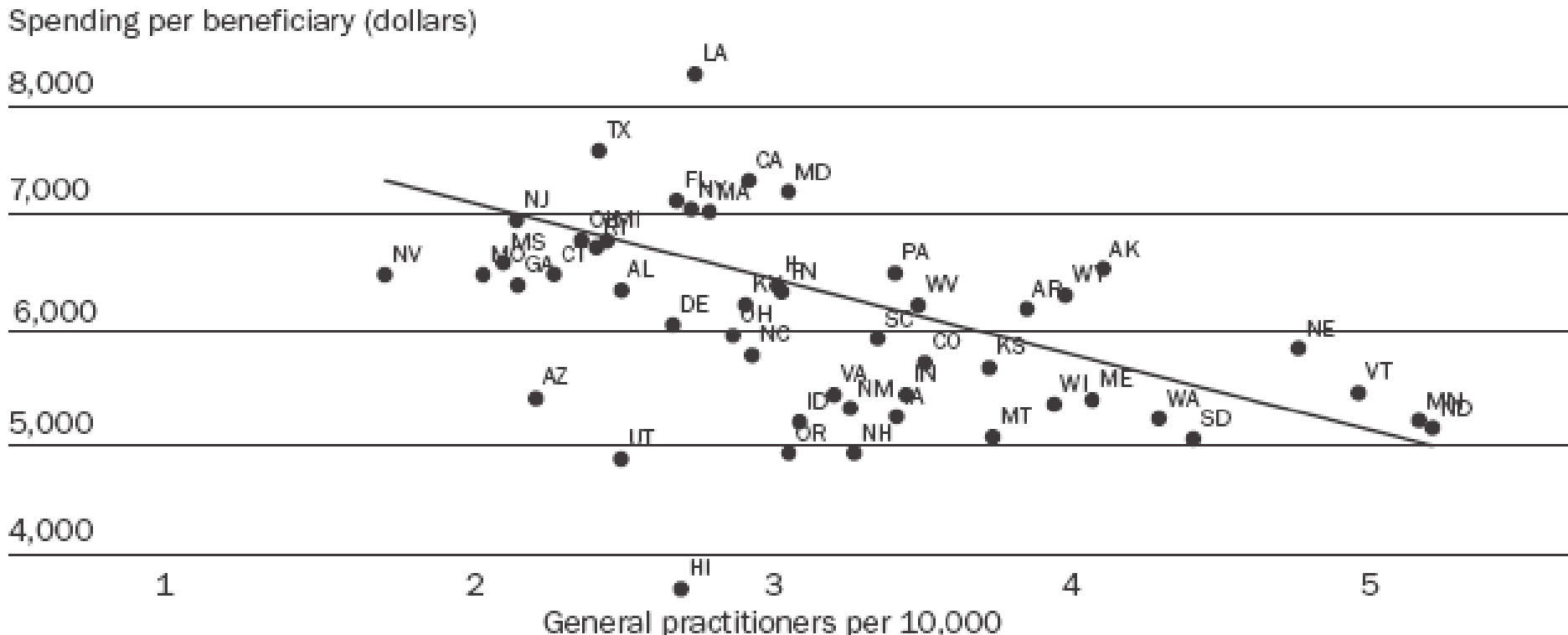
2

3

4

5

General practitioners per 10,000



**SOURCES:** Medicare claims data; and Area Resource File, 2003.

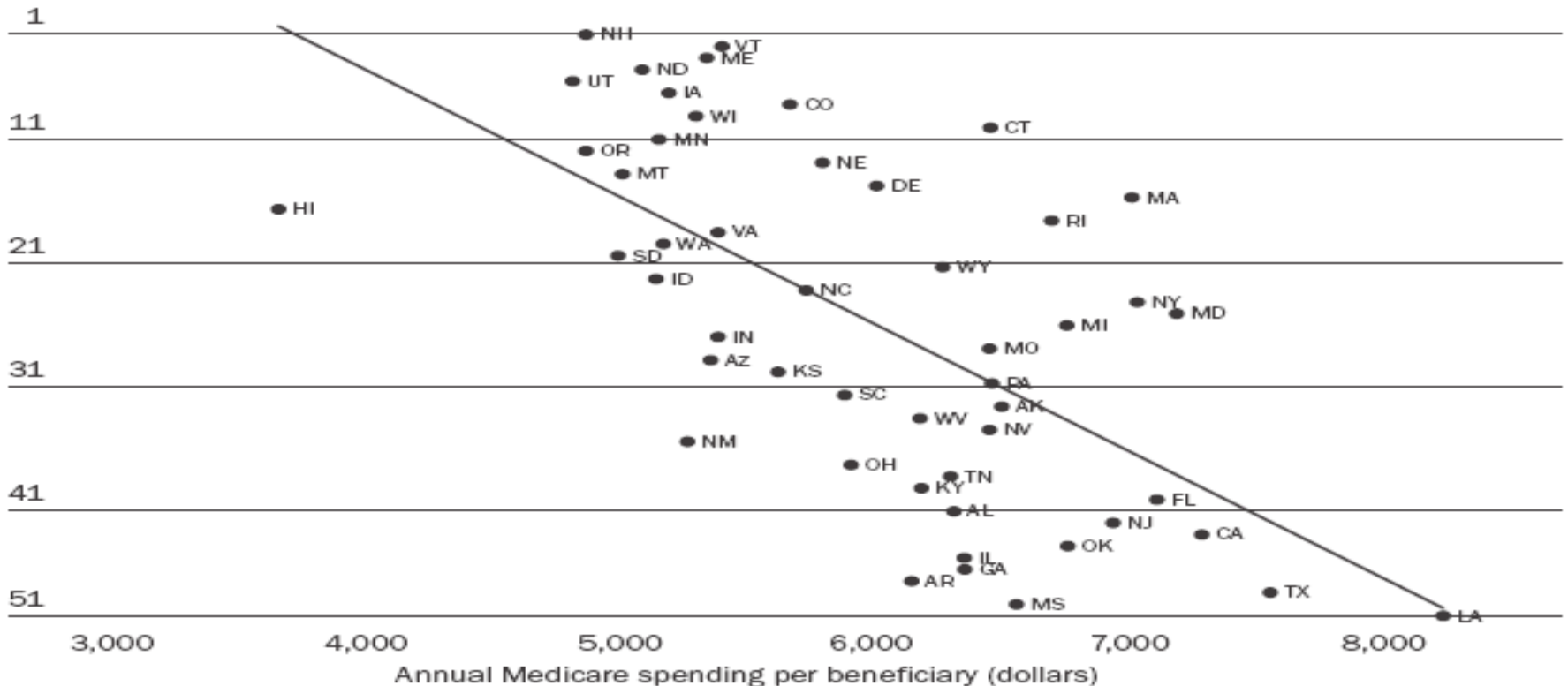
**NOTE:** Total physicians held constant.

# As it turns out, cost is *inversely* related to quality

## EXHIBIT 1

### Relationship Between Quality And Medicare Spending, As Expressed By Overall Quality Ranking, 2000–2001

Overall quality ranking



**SOURCES:** Medicare claims data; and S.F. Jencks et al., "Change in the Quality of Care Delivered to Medicare Beneficiaries, 1998–1999 to 2000–2001," *Journal of the American Medical Association* 289, no. 3 (2003): 305–312.

**NOTE:** For quality ranking, smaller values equal higher quality.



# While more GPs predict higher quality ranking

## EXHIBIT 8

**Relationship Between Provider Workforce And Quality: General Practitioners Per 10,000 And Quality Rank In 2000**

Quality rank

1

26

51

1

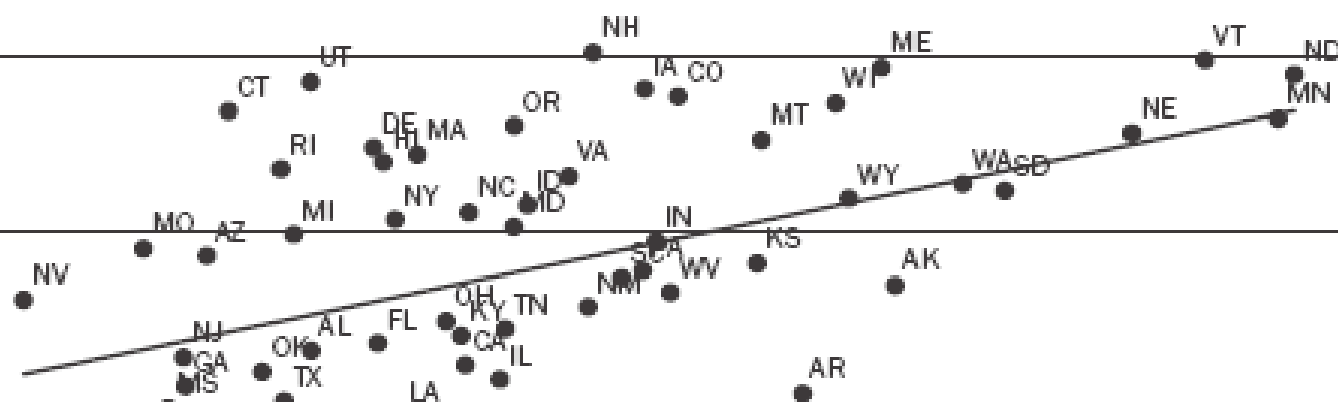
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5

General practitioners per 10,000



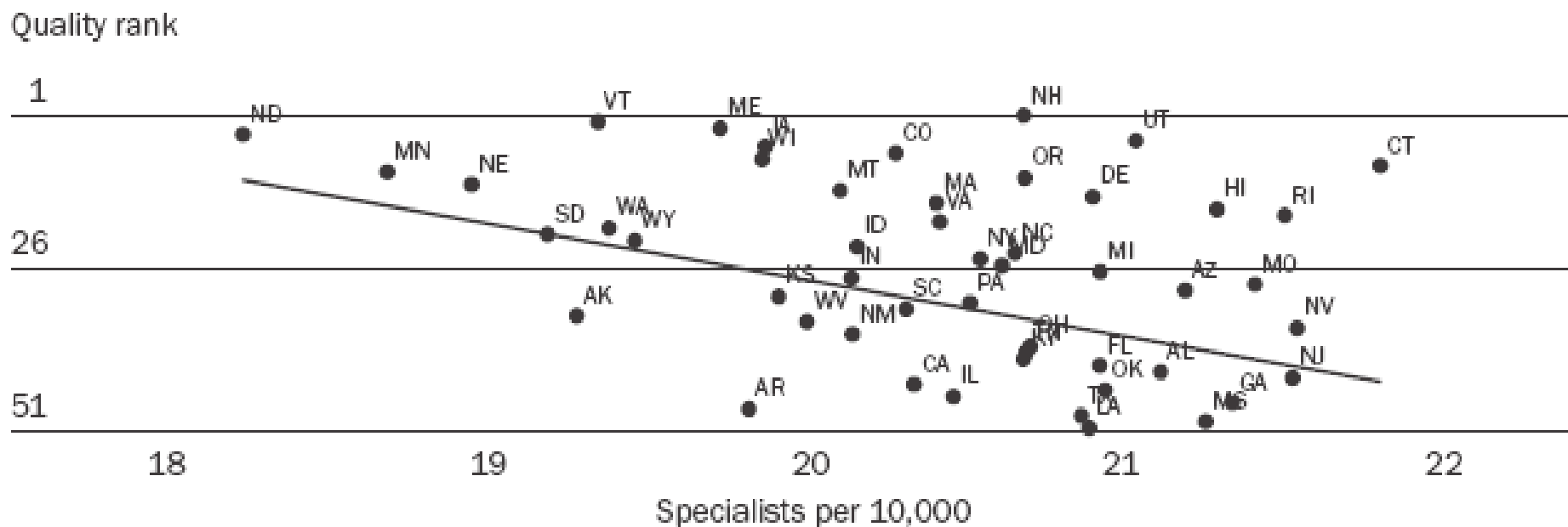
**SOURCES:** Medicare claims data; and Area Resource File, 2003.

**NOTES:** For quality ranking, smaller values equal higher quality. Total physicians held constant.

# And more specialists predict lower quality ranking

## EXHIBIT 6

### Relationship Between Provider Workforce And Quality: Specialists Per 10,000 And Quality Rank In 2000



**SOURCES:** Medicare claims data; and Area Resource File, 2003.

**NOTES:** For quality ranking, smaller values equal higher quality. Total physicians held constant.

# The Ecology of Medical Care

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- Half of all physician visits are to generalist clinicians
- Most visits for common, serious conditions are to primary care practices
- Primary care infrastructure consists of small, relatively independent practices

Green LA, Freyer GE Jr, et al NEJM 344(2001):2021-25

# Primary Care Practices: Culture and Financial Reality

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- “Climates permeated with stress and overwork”
- Most work on margins of financial viability
    - Little time for self-reflection
    - Little or no training in quality improvement and organizational management

**Crabtree BF. Healthcare Manage Rev, Vol 281(2003):279-83**

**Grumbach K and Bodenheimer J. JAMA (2002):889-93**

**The sun is rising on a new idea . . .**





39

**Your Medical Home**

# The Medical Home Is Something Qualitatively Different

## Usual Primary Care

Relies on the clinician

Care provided to those who come in

Performance is assumed

Innovation is infrequent

Draws from the communities

Refers to mental health services

## Medical Home

Relies on the team

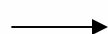
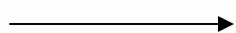
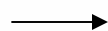
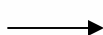
Care provided for all

Performance is measured

Innovation occurs regularly

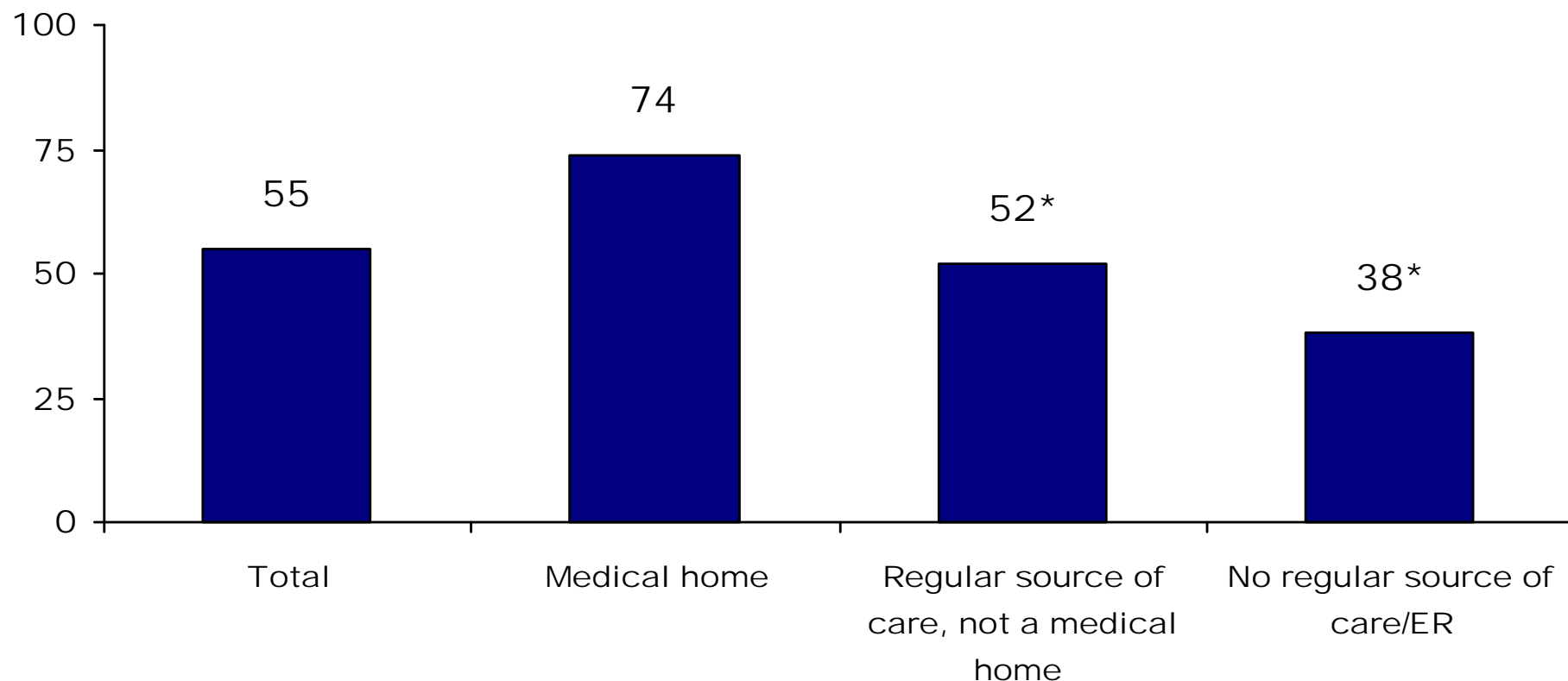
Partners with communities

Includes mental health services



# The Majority of Adults with a Medical Home Always Get the Care They Need

Percent of adults 18–64 reporting always getting care they need when they need it



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

\* Compared with medical home, differences remain statistically significant after adjusting for income or insurance.

Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.

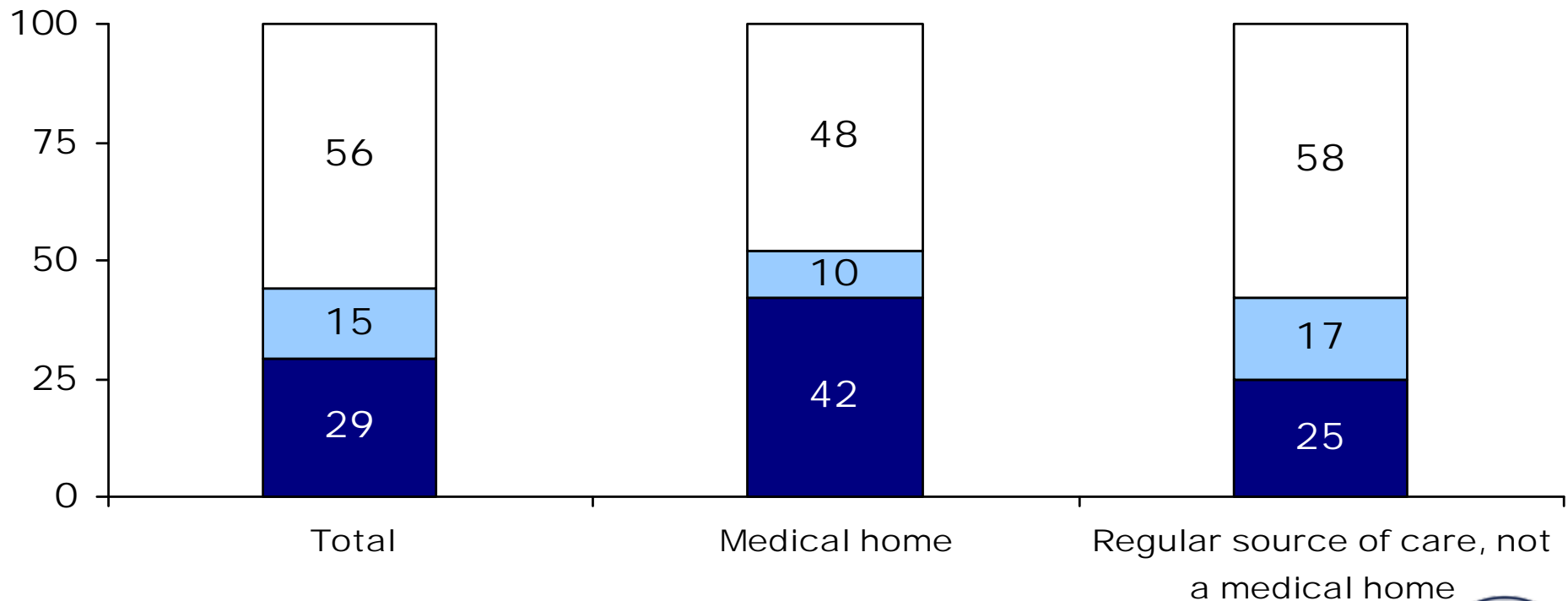




# Adults with a Medical Home Are More Likely to Report Checking Their Blood Pressure Regularly and Keeping It in Control

Percent of adults 18–64 with high blood pressure

- Does not check BP
- Checks BP, not controlled
- Checks BP, controlled



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

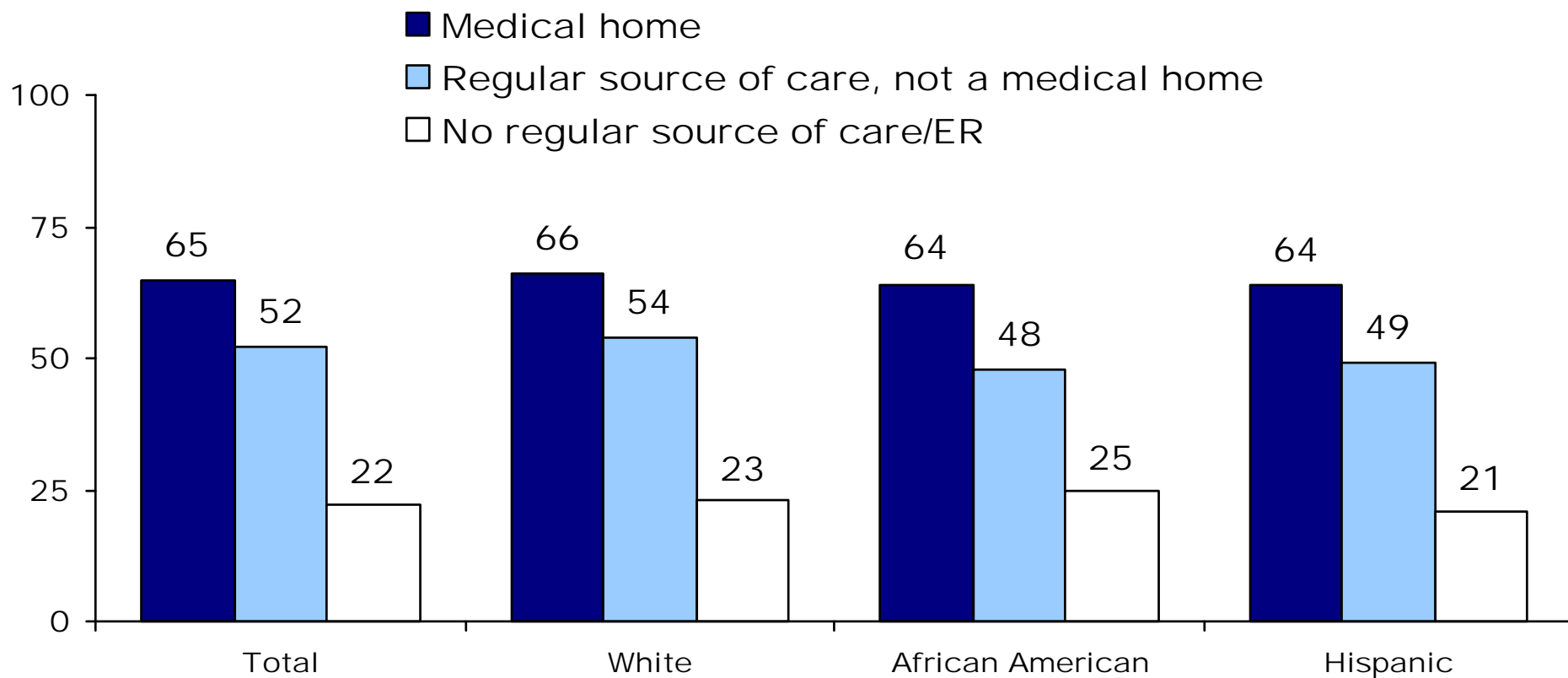
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# When African Americans and Hispanics Have Medical Homes They Are Just as Likely as Whites to Receive Reminders for Preventive Care Visits

Percent of adults 18–64 receiving a reminder to schedule a preventive visit by doctors' office



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

Source: Commonwealth Fund 2006 Health Care Quality Survey.

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# Building A Medical Home in an Academic Center:

## **10 Lessons Learned .....in 5 minutes**

# Background

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- Pa. Chronic Care Commission Pilot Projects – 2008
- All non-Medicare insurers participating
- One of 32 practices chosen to participate in pilot project
  - One of three with a residency program
  - The largest practice (70 clinicians, 75,000 visits) in the collaborative

**On January 29, 2009, we earned recognition as a Level 3 Patient Centered Primary Care Medical Home from the National Center for Quality Assurance (NCQA)**



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**Lesson 1:** Building and  
sustaining a medical home  
requires a business model

# Business Models Supporting Medical Homes

- 9 enhanced payment models are being used around the country
- Each uses some combination of:
  - NCQA recognition
  - Pay for performance
  - Upfront investment (e.g. support for case manager)
  - Shared savings

## **Lesson 2:** Wise investment of enhanced payment is needed to achieve optimal outcomes





# Where to Invest

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- The right people yield greatest results (as opposed to technology)
  - Case management
  - Patient outreach
  - Health education
  - Mental health worker
  - Quality coordinator

# Lesson 3: “If you build it, they will come”



# Since We've Started, Lots of People Want In

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- Community-based private mental health company
- Jefferson Department of Psychiatry
- A patient education, empowerment, & decision support software company
- Community based tobacco cessation & physical activity project
- School of Pharmacy
- End-of-life pharmacy benefits & management not-for profit

# Lesson 4: “I hate measurement”



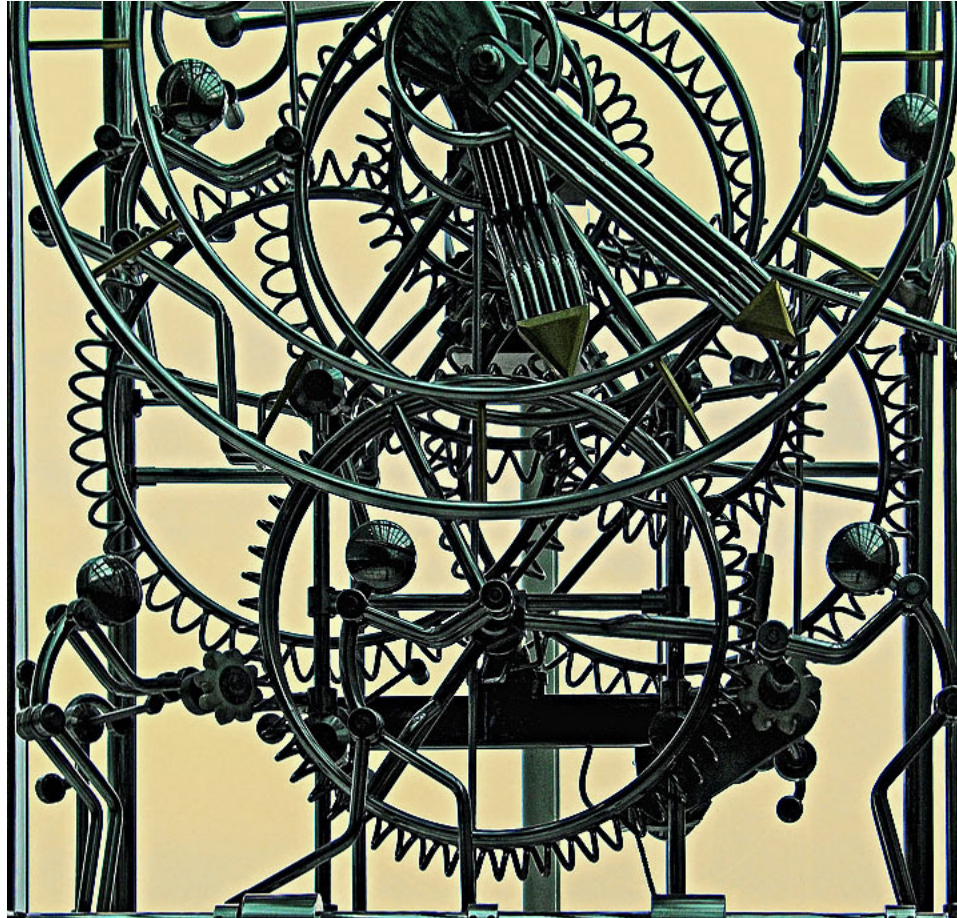
# Quality Measurement

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- If you've never measured it, the odds are your first score will be low
- You grow tough

***Bring It On!***

# Lesson 5: All facets of the medical home matter



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Do not overly focus on caring for a single chronic illness. Every aspect of the Medical Home Model matters:

- Enhanced access
- Opportunistic care
- Outreach
- Community partnership
- Case Management

## **Lesson 6:** Financial supporters will want to see evidence of cost savings in a short time!





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The two greatest risks to the success of the Medical Home initiative are:

- They will be judged too quickly
- They will be judged only by cost saving

We are seeing both things happen

**Lesson 7:** If you do a fabulous job ...but only for the patients who come in for visits, you'll get good solid, not spectacular, outcomes



- 
- Outreach, outreach, outreach
  - Outreach requires resources
  - Medical Homes require a business model

## Lesson 8: Don't feel confined by the primary goal of the project



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We've deployed our new staff to  
address vaccination rates, cancer  
screening & diabetic care

## **Lesson 9:** You need to free up staff and give them time to think, plan and innovate



We've had fantastic non-financial return on this investment. Time will tell regarding financial return

## **Lesson 10: This work demands the time, energy, and passion of leaders**

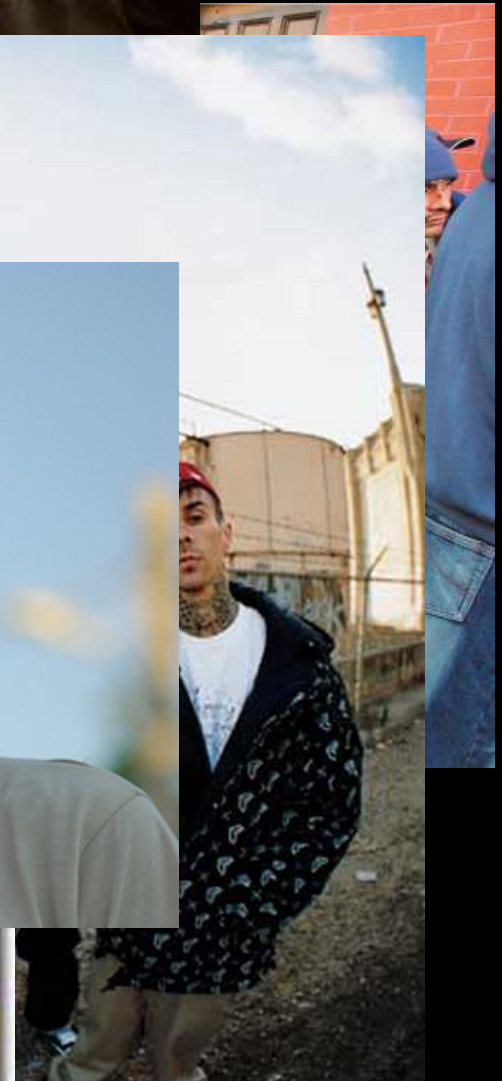
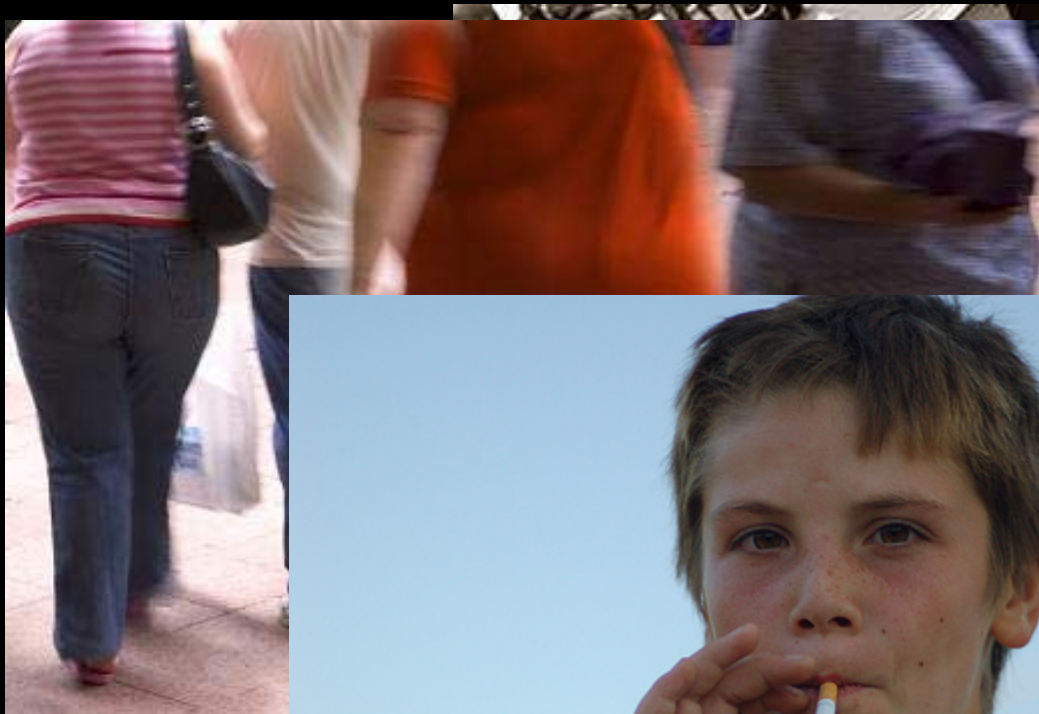




This is one of the hardest jobs  
you'll ever take on .....and one of  
the most fun

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Primary care clinicians cannot serve  
as care coordinators . . .  
alone



[www.foodfacts.info/blog](http://www.foodfacts.info/blog)

Dylan Tauber

# Primary care is the bridge between...



**Public Health**

**Community  
Engagement**

**Clinical Care  
Delivery**



# What Will It Take To Coordinate Care?

- Purchasers should request and expect it
- Insurers should pay for quality and provide the support and data to achieve it.
- Health systems need to invest in technology that facilitates communication and commit to improving population health
- We need new methods to provide quality incentives for specialists
- And we need Primary Care Clinicians to transform their practices to provide Medical Homes for all.

Care coordination demands a shared  
commitment to achieving optimal health  
outcomes

Care coordination demands Medical Homes  
functioning within a broader Medical  
Community



**The country is watching**

**Now is the time...**





# NCQA Recognition: 9 Criteria

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- Access and Communication
- Patient Tracking and Registry Functions
- Case Management
- Patient Self-Management Support
- Electronic Prescribing\*
- Test Tracking
- Referral Tracking
- Performance Reporting and Improvement
- Advanced Electronic Communication\*

\* Not Required

# High Hopes...

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- Medical Homes are expected to:
  - Improve chronic illness by
    - Engaging patients
    - Mobilizing teams
    - Addressing prevention
    - Incorporating mental health services
    - Partnering with communities

And...help control health care costs

# Characteristics of High Performing Practice

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- Leadership
- A culture of improvement
- Greater staff involvement
- Higher investment in people
  - Greater investment in technology has not, yet, been demonstrated to promote prevention, including CRC screening

**Orzano AJ, et al. Improving outcomes for high risk diabetes using information systems. J Am B of Fam Med 20(3) 295-51 2007 May-Jun**

**On January 29, 2009, we earned recognition as a Level 3 Patient Centered Primary Care Medical Home from the National Center for Quality Assurance (NCQA)**



- The first Department of Family Medicine in the nation to earn this recognition

# It's People That Make A Home

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- Create a joyful practice
- Have fun trying new things
- Measure what you're doing and see if it works

# Indicators of a Medical Home (adults 18–64)

Total			Percent by Race			
Indicator	Estimated millions	Percent	White	African American	Hispanic	Asian American
Regular doctor or source of care	142	80	85	79	57	84
<i>Among those with a regular doctor or source of care . . .</i>						
Not difficult to contact provider over telephone	121	85	88	82	76	84
Not difficult to get care or medical advice after hours	92	65	65	69	60	66
Doctors' office visits are always or often well organized and running on time	93	66	68	65	60	62
All four indicators of medical home	47	27	28	34	15	26

# Indicators of a Medical Home by Usual Health Care Setting (adults 18–64)

		Usual Health Care Setting		
Indicator	Total	Doctors' office	Community health center or public clinic	Other settings*
Regular doctor or source of care	80%	95%	78%	63%
<i>Among those with a regular doctor or source of care . . .</i>				
Not difficult to contact provider over telephone	85	87	77	77
Not difficult to get care or medical advice after hours	65	67	54	69
Always or often find visits to doctors' office well organized and running on time	66	68	56	60
All four indicators of a medical home	27	32	21	22

\* Includes hospital outpatient departments and other settings.

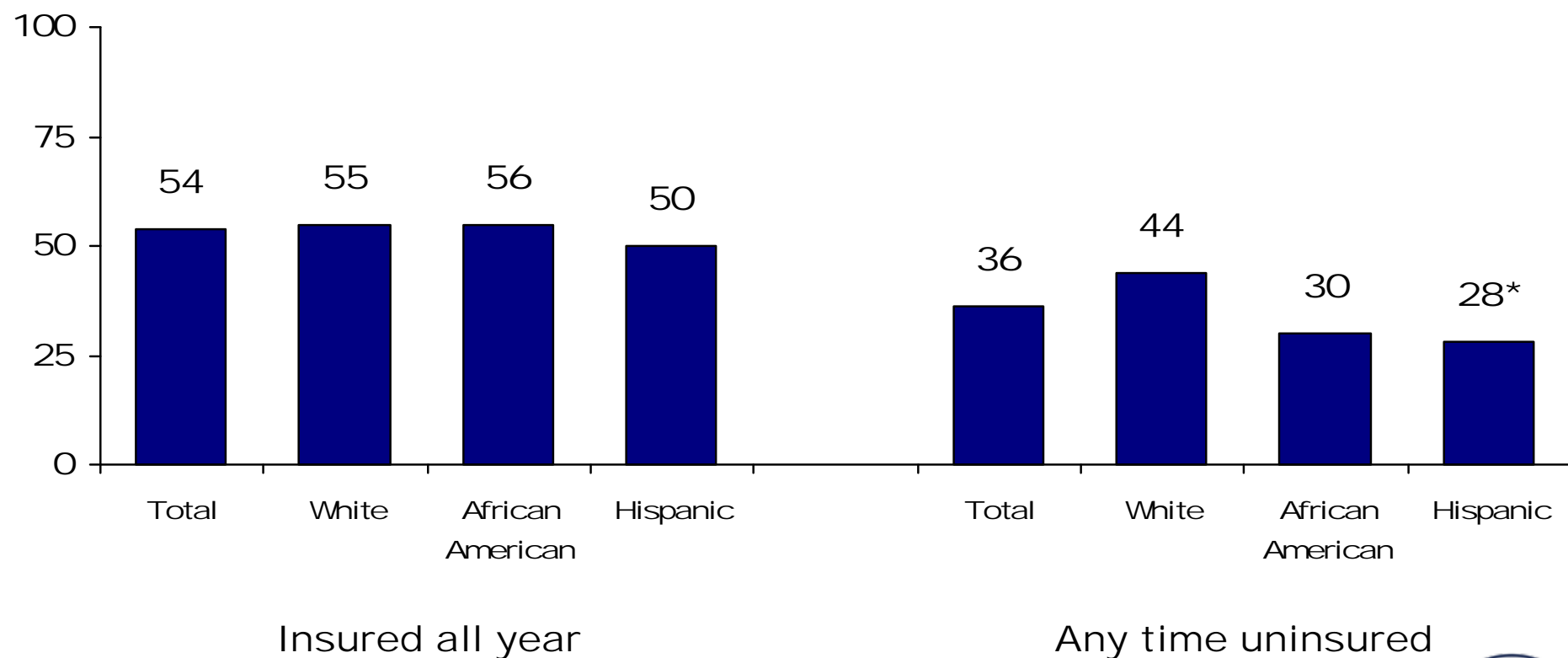
**Source: The Commonwealth Fund 2006 Quality of Care Survey**

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# When Insured, Minorities Are Just as Likely as Whites to Receive Reminders for Preventive Care Visits; Rates Are Low for All Uninsured Adults, Especially Hispanics

Percent of adults 18–64 receiving a reminder to schedule a preventive visit by doctor's office



\* Compared with whites, differences are statistically significant.

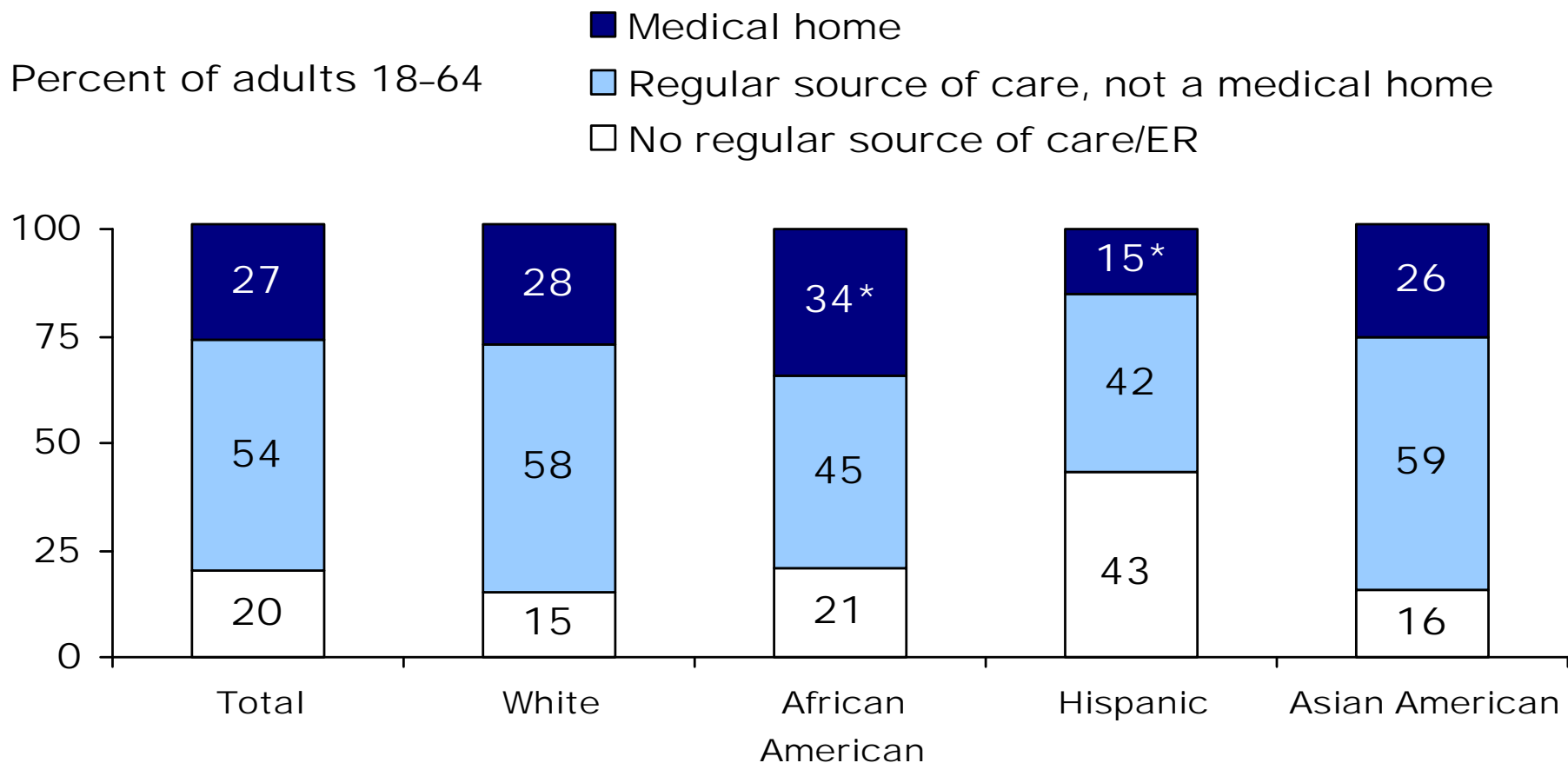
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.





# African Americans and Hispanics Are More Likely to Lack a Regular Provider or Source of Care; Hispanics Are Least Likely to Have a Medical Home



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

\* Compared with whites, differences remain statistically significant after adjusting for income and insurance.

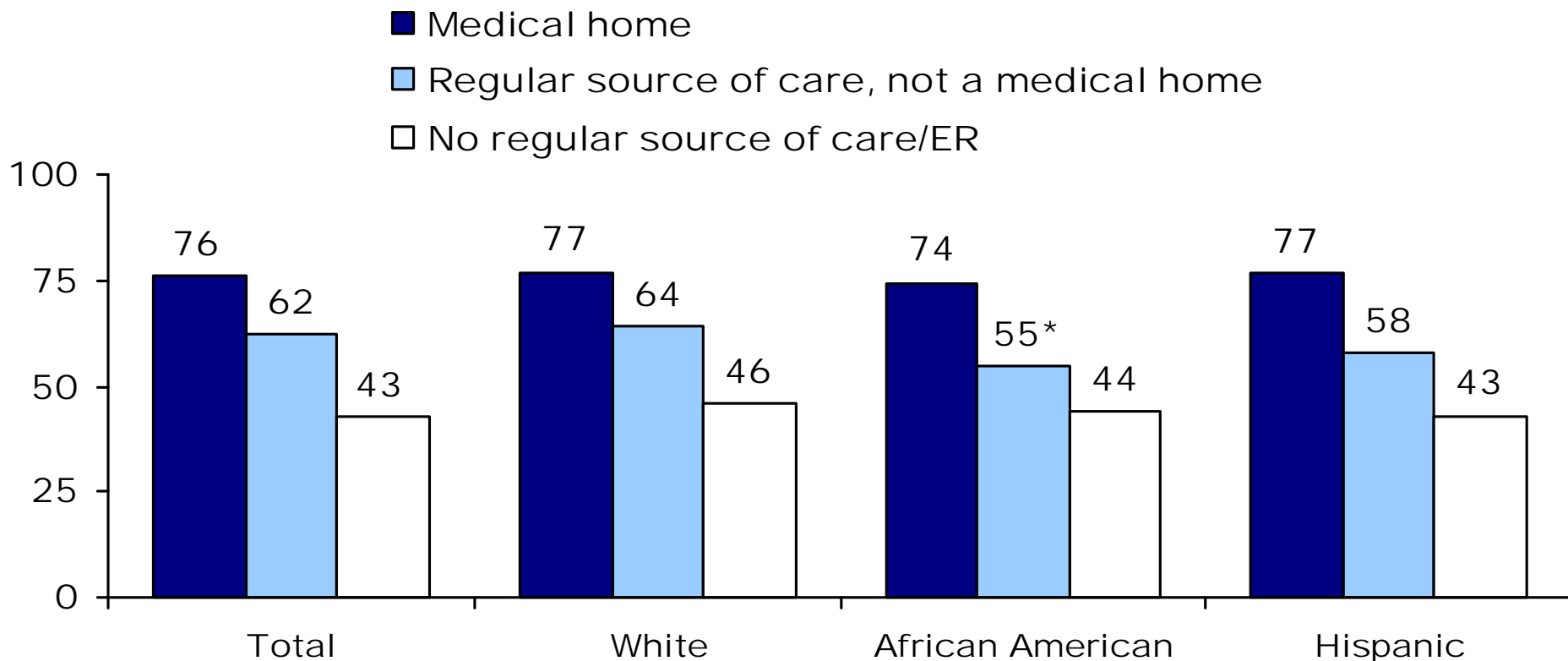
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# African American and Hispanic Adults Who Have Medical Homes Have Rapid Access to Medical Appointments

Percent of adults 18-64 able to get an appointment same or next day



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

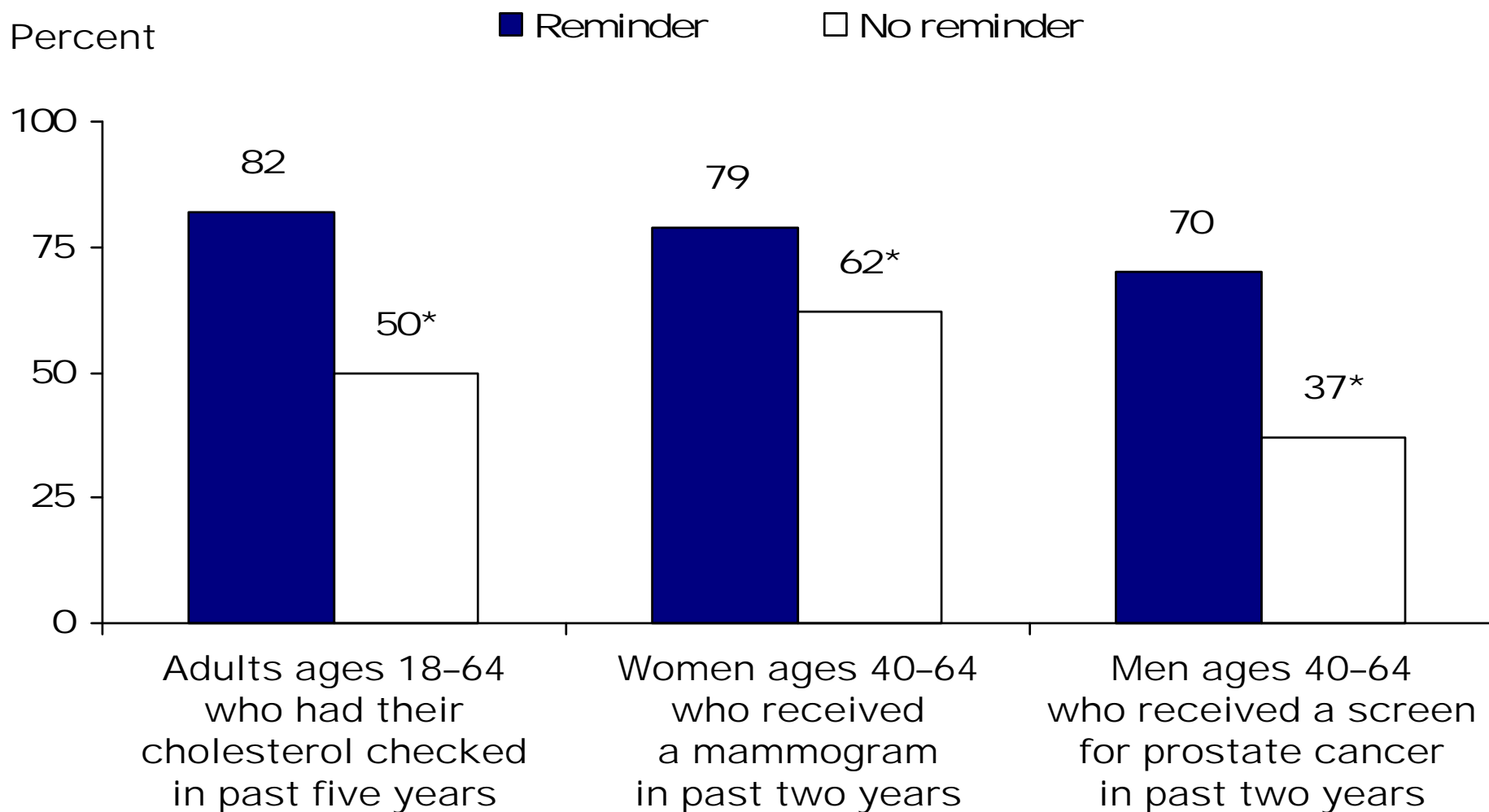
\* Compared with whites, differences are significant within category of medical home.

Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Adults Who Are Sent Reminders Are More Likely to Receive Preventive Screening



\* Compared with reminders, differences remain statistically significant after adjusting for income or insurance.

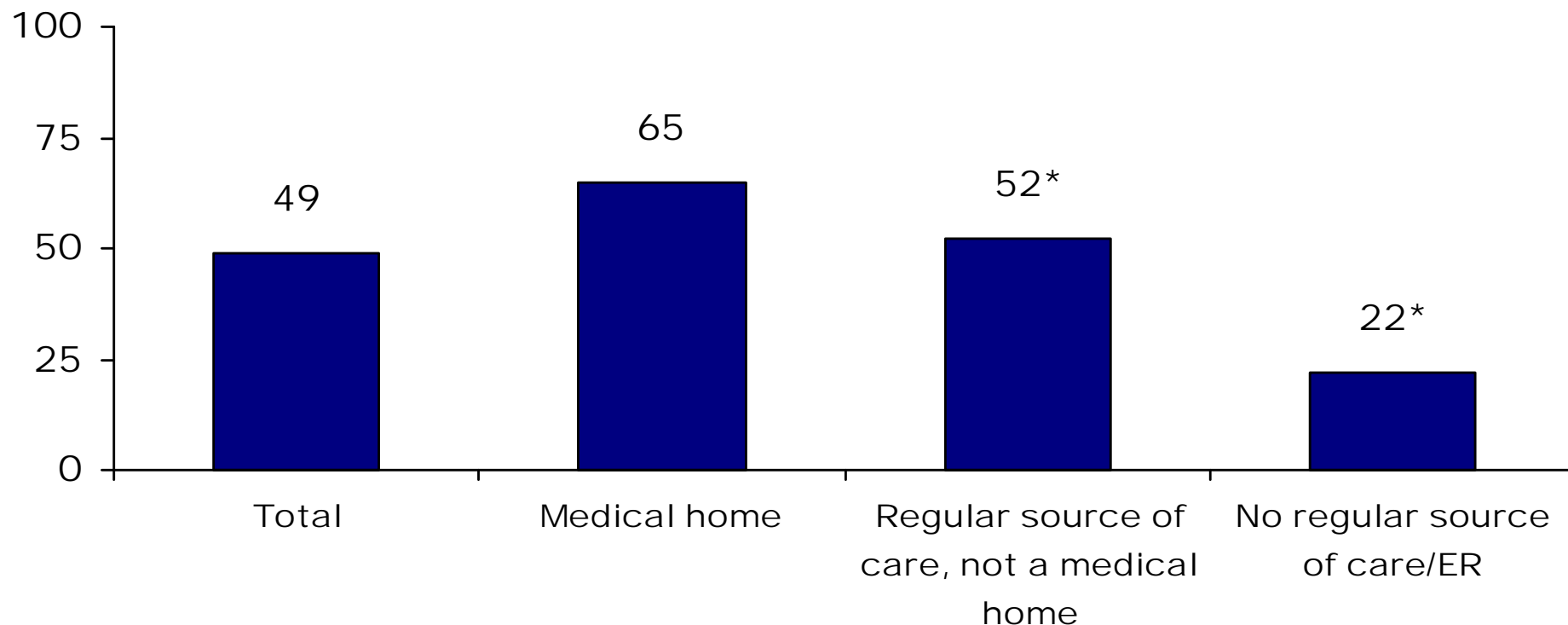
**Source: The Commonwealth Fund 2006 Quality of Care Survey**

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Nearly Two-Thirds of Adults with Medical Homes Receive Reminders for Preventive Care

Percent of adults 18–64 receiving a reminder to schedule a preventive visit by doctors' office



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

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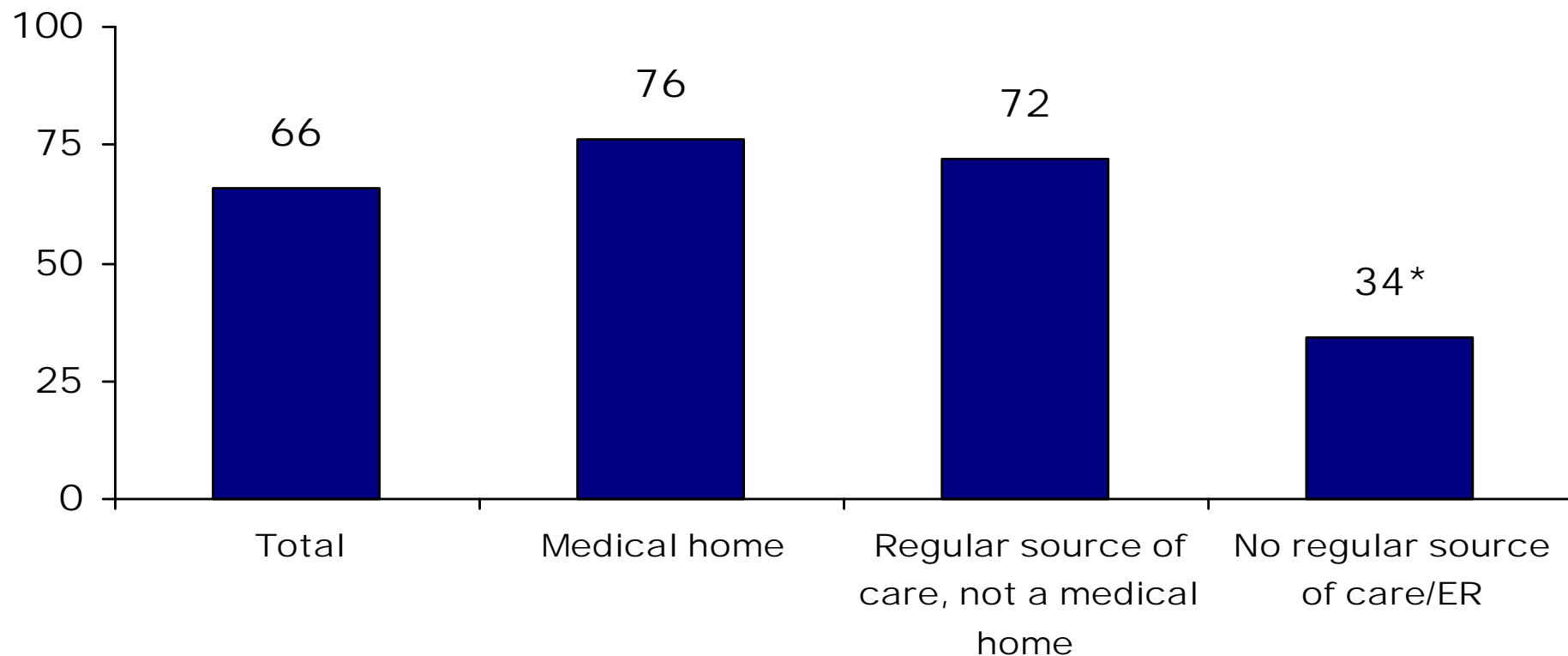
**Source: The Commonwealth Fund 2006 Quality of Care Survey**

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Missed Opportunities for Preventive Care for Adults Who Lack a Regular Source of Care: Just One-Third Had Their Cholesterol Screened

Percent of adults 18–64 who had their  
cholesterol checked in past five years



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

\* Compared with medical home, differences remain statistically significant after adjusting for income or insurance.

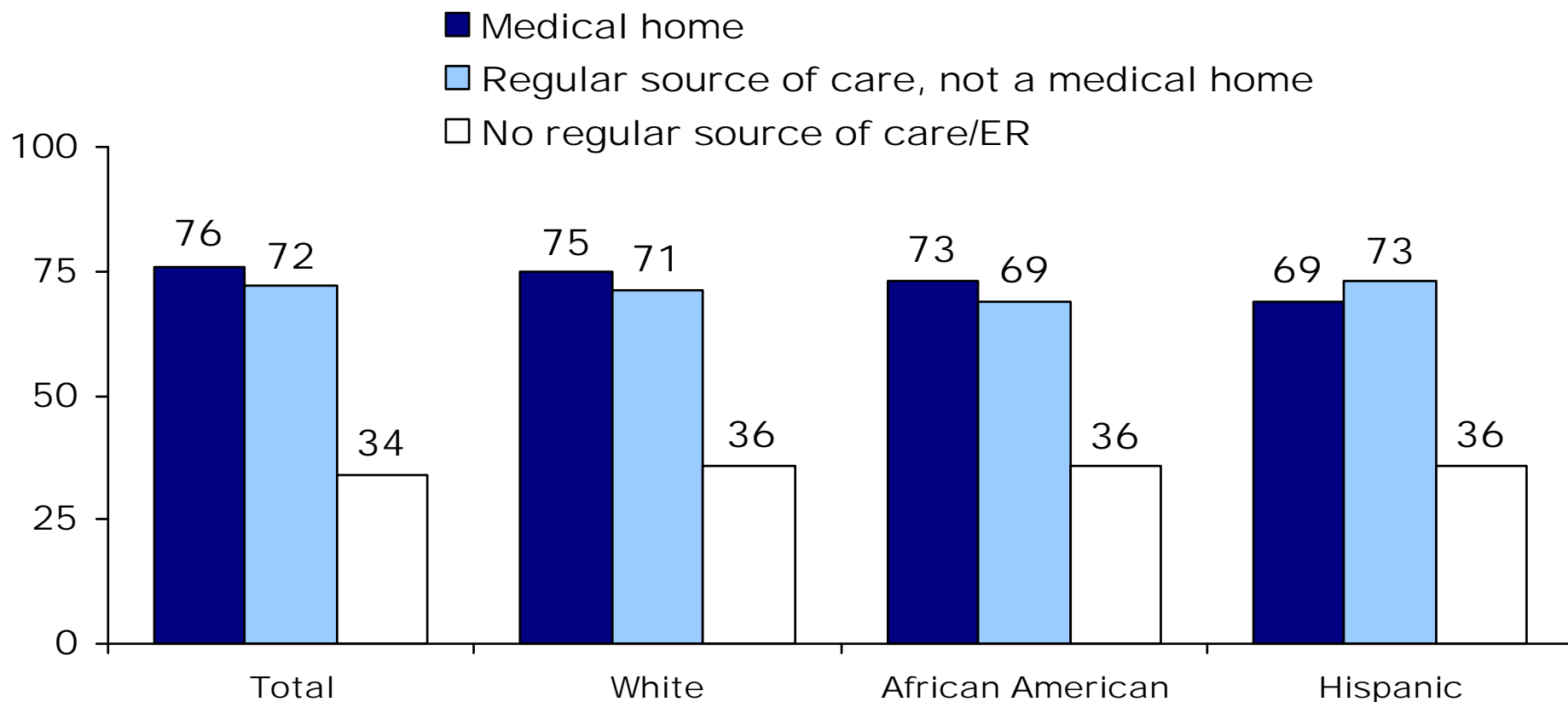
**Source: The Commonwealth Fund 2006 Quality of Care Survey**

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# African Americans and Hispanics with Medical Homes Are Equally as Likely as Whites to Receive Cholesterol Checks

Percent of adults 18–64 who had their cholesterol checked in past five years



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

Source: The Commonwealth Fund 2006 Quality of Care Survey

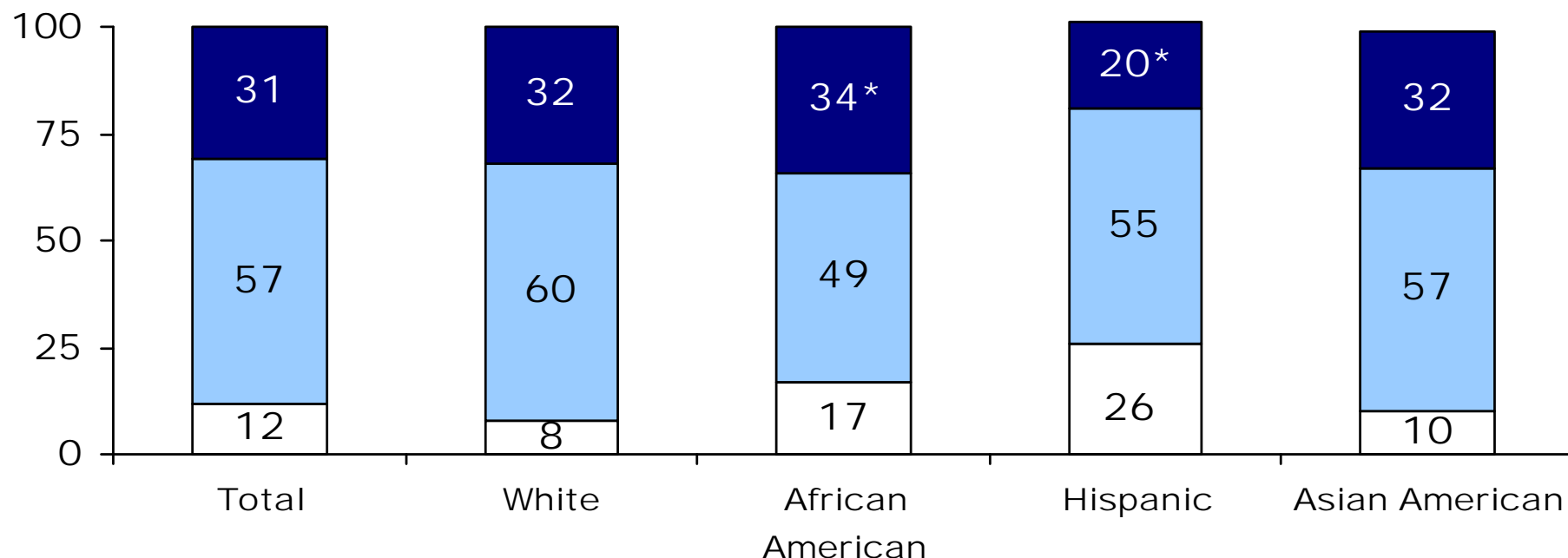
Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Only One-Third of Patients with Chronic Conditions Have Medical Homes; Hispanics Are Least Likely to Have a Medical Home

Percent of adults 18–64  
with a chronic disease

- Medical home
- Regular source of care, not a medical home
- No regular source of care/ER



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

\* Compared with whites, differences remain statistically significant after adjusting for income and insurance.

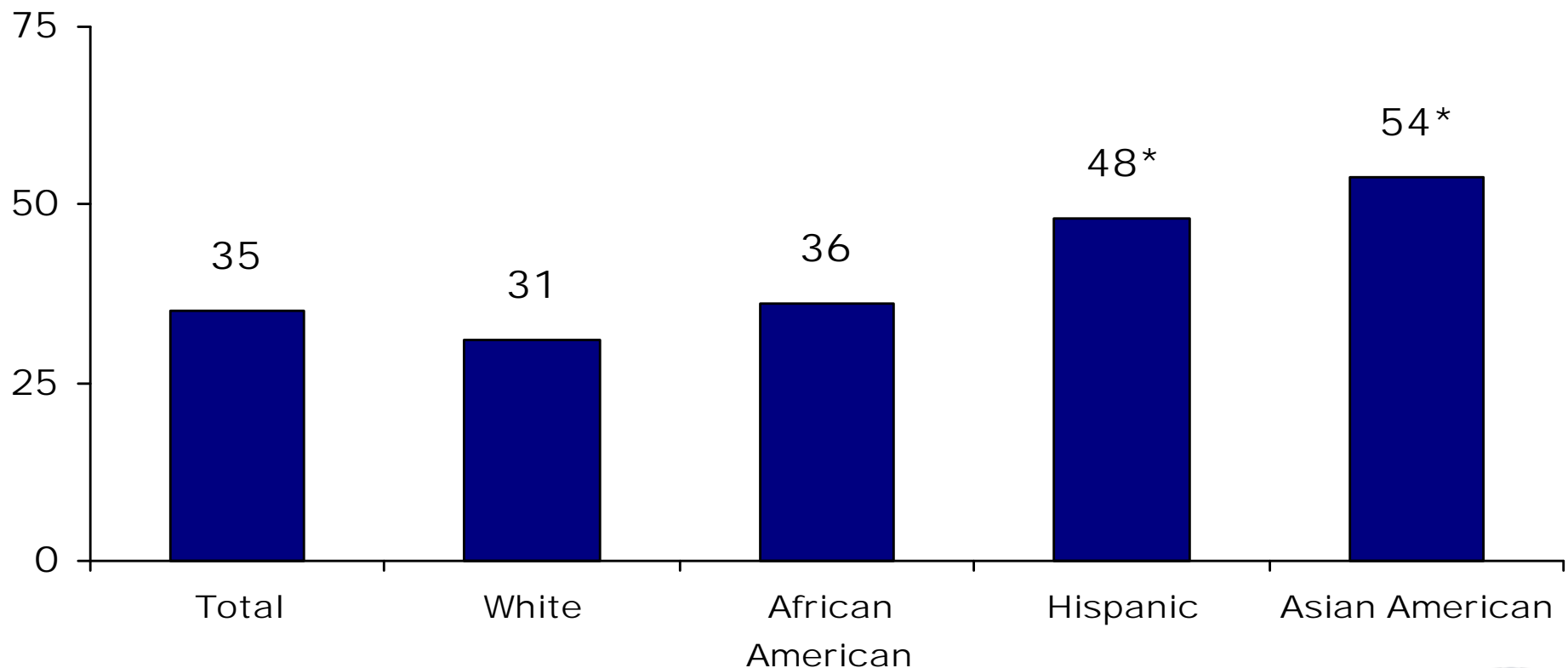
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# About Half or More of Hispanics and Asian Americans with Chronic Conditions Were Not Given Plans to Manage Their Condition at Home

Percent of adults ages 18–64 with any chronic condition who were *not* given a plan from a doctor or nurse to manage condition at home



\* Compared with whites, differences remain statistically significant after adjusting for income or insurance.

**Source: The Commonwealth Fund 2006 Quality of Care Survey**

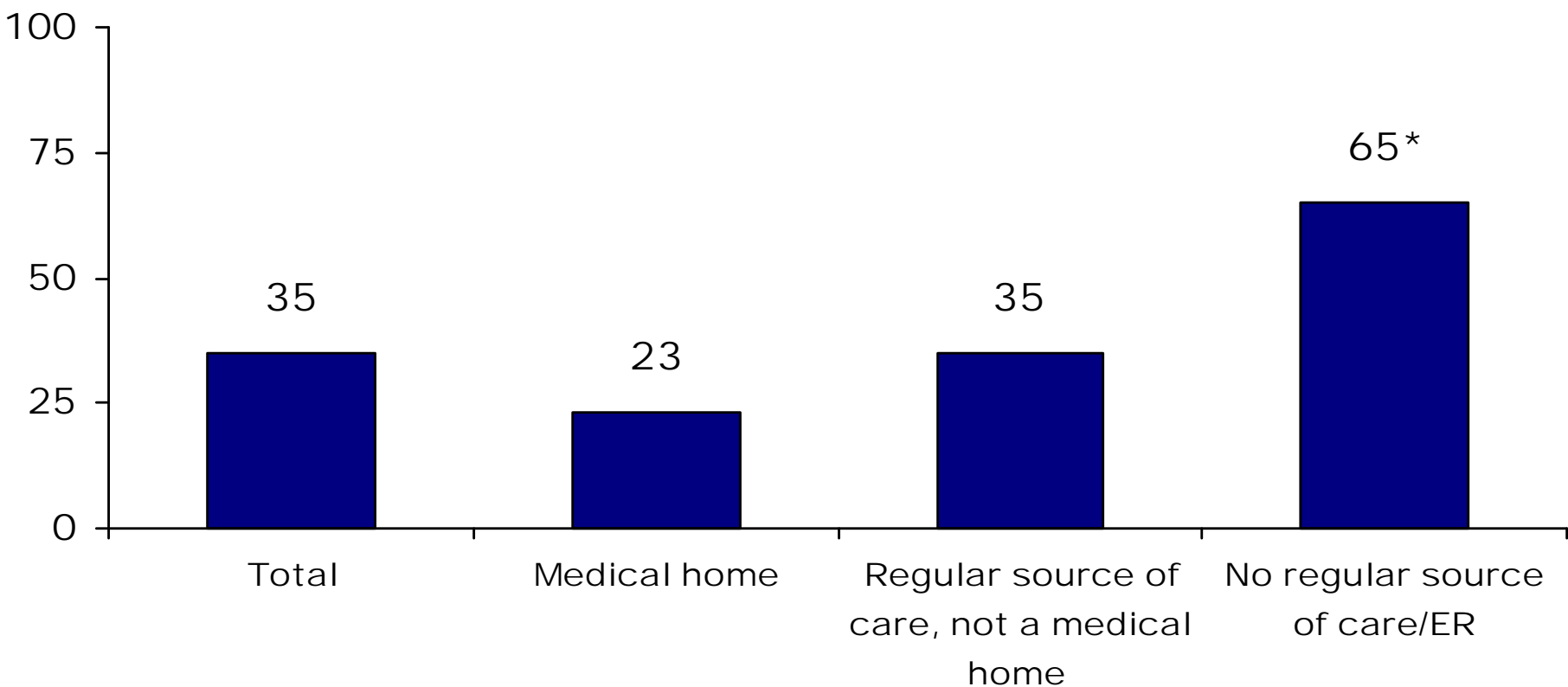
Source: Commonwealth Fund 2006 Health Care Quality Survey.





# Less than One-Quarter of Adults with Medical Homes Did Not Receive Plans to Manage Their Conditions at Home

Percent of adults ages 18–64 with any chronic condition who were *not* given a plan from a doctor or nurse to manage condition at home



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

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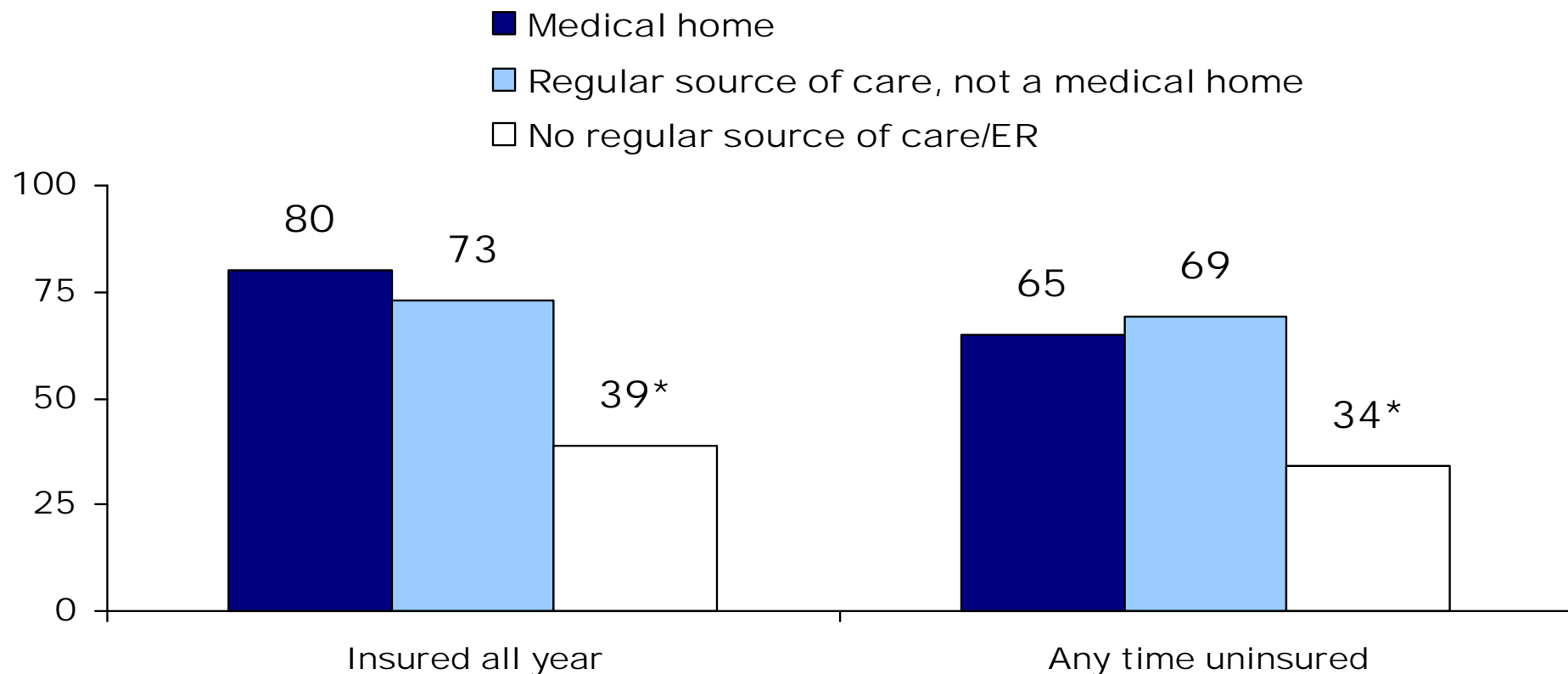
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Adults with a Medical Home Have Higher Rates of Counseling on Diet and Exercise Even When Uninsured

Percent of obese or overweight adults 18–64 who were counseled on diet and exercise by doctor



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

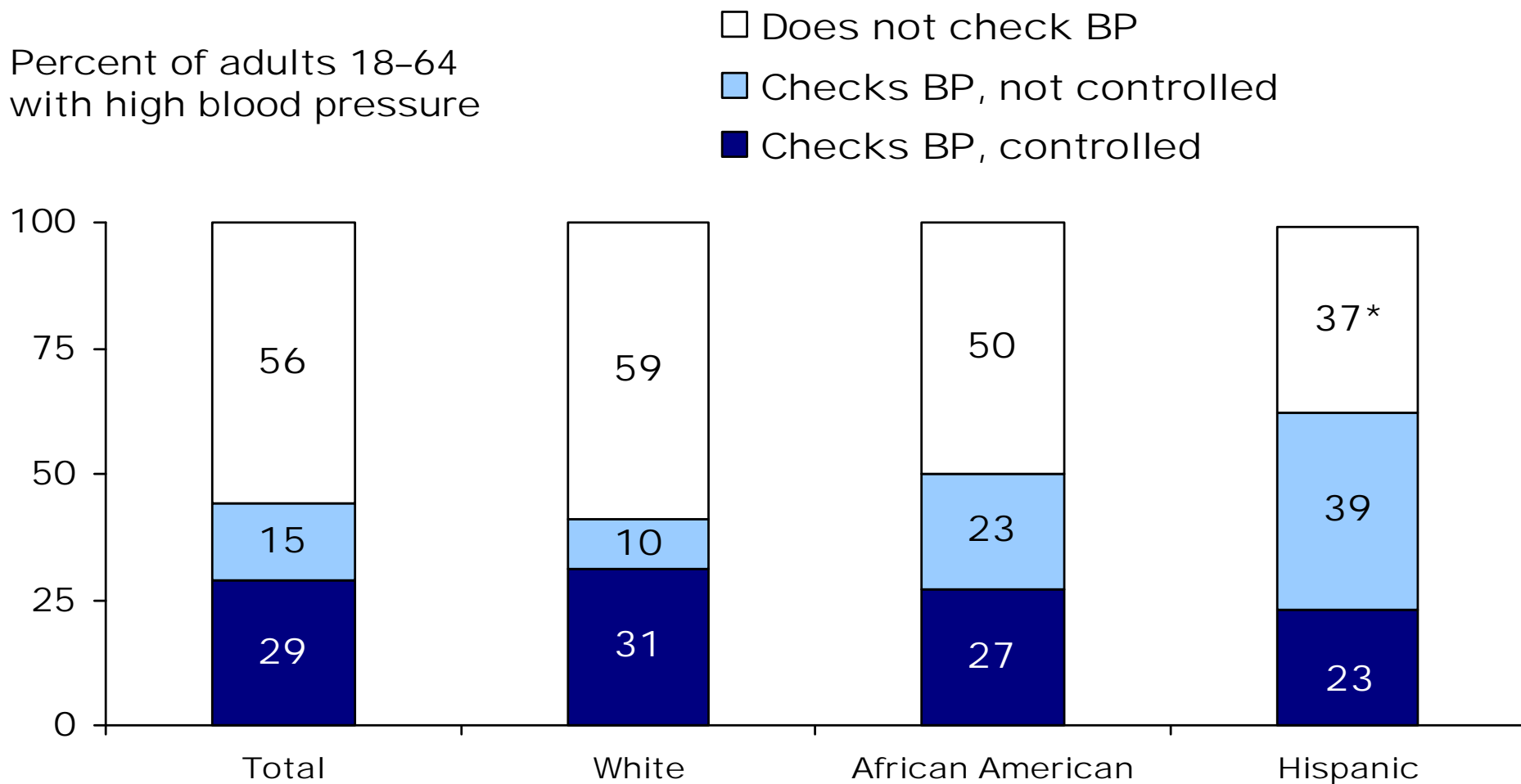
\* Compared with medical home, differences are statistically significant.

Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Missed Opportunities for Blood Pressure Management Exist Across All Groups, Especially Hispanics



\* Compared with whites, differences remain statistically significant after adjusting for income and insurance.

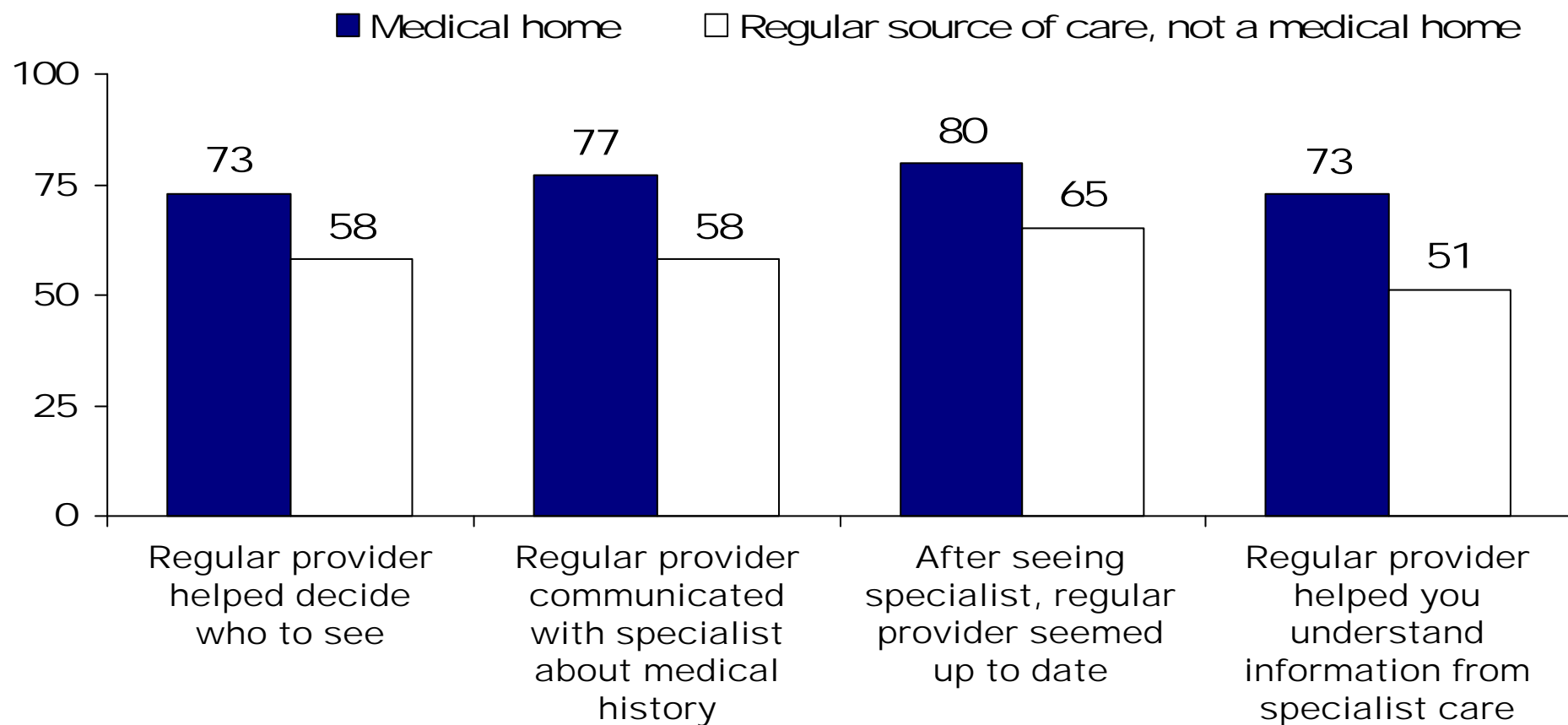
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Patients with a Medical Home Report Better Coordination Between Their Regular Provider and Specialist

Percent of adults ages 18–64 who have seen a specialist in past two years



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

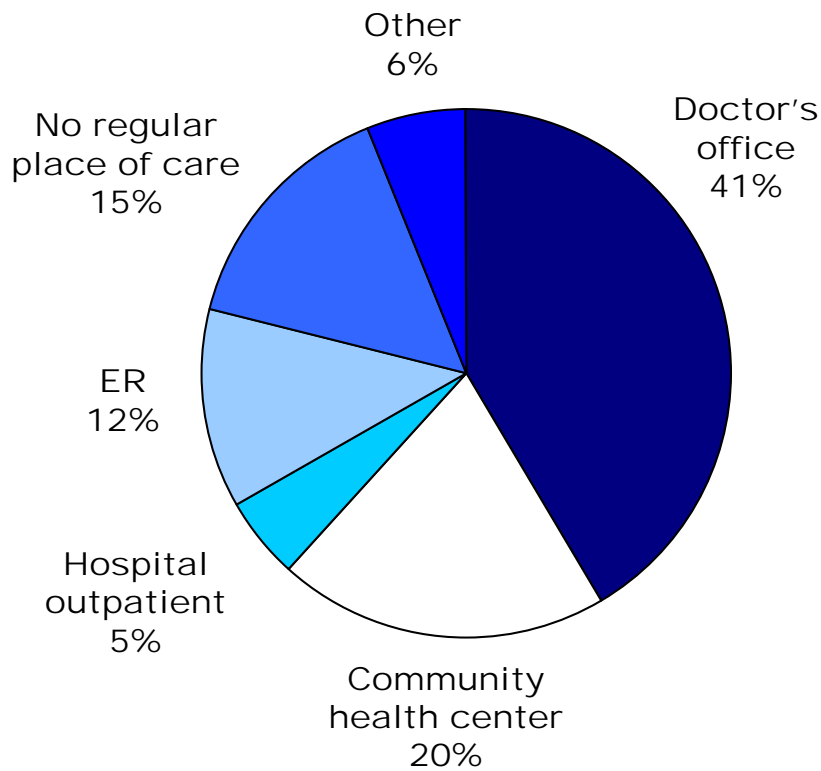
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.

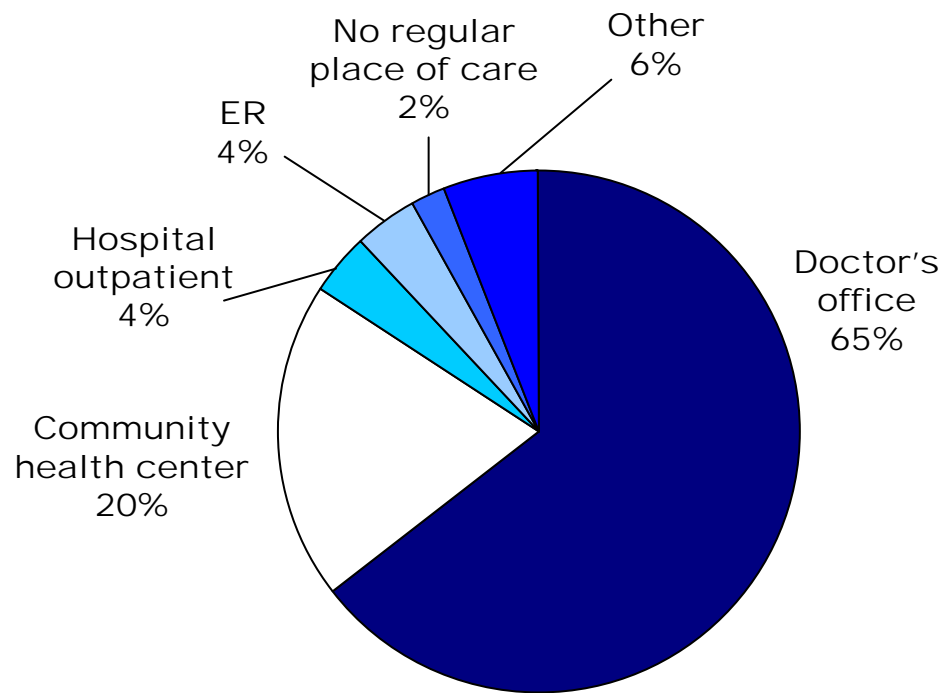


# Community Health Centers Serve Large Numbers of Uninsured Adults and Insured Adults with Low Incomes

Uninsured any time  
46.8 million



Insured, income below 200% poverty  
22.2 million



Note: Percentages may not sum to 100% because of rounding.

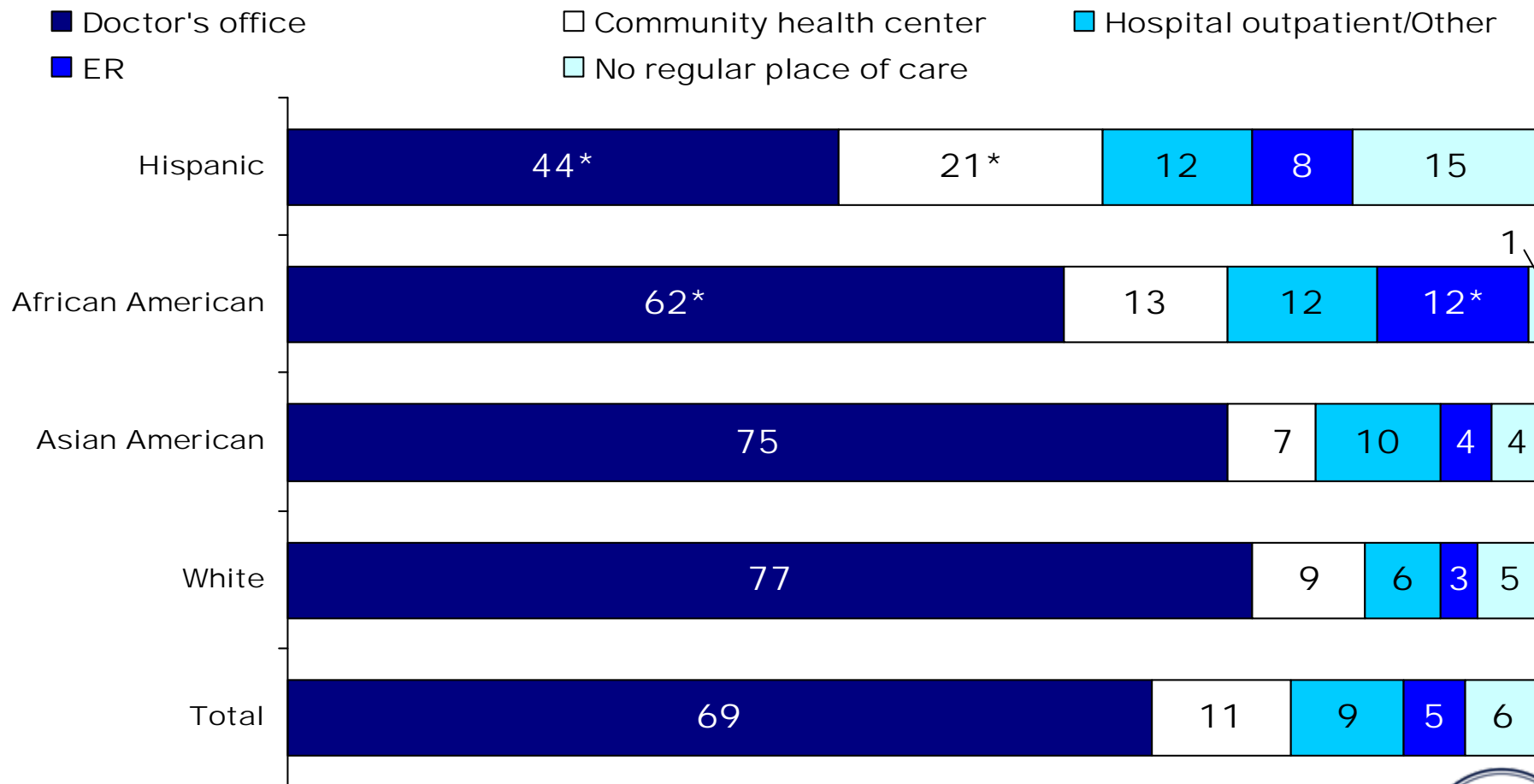
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Hispanics and African Americans Are More Likely to Rely on Community Health Centers as Their Regular Place of Care

Percent of adults 18-64



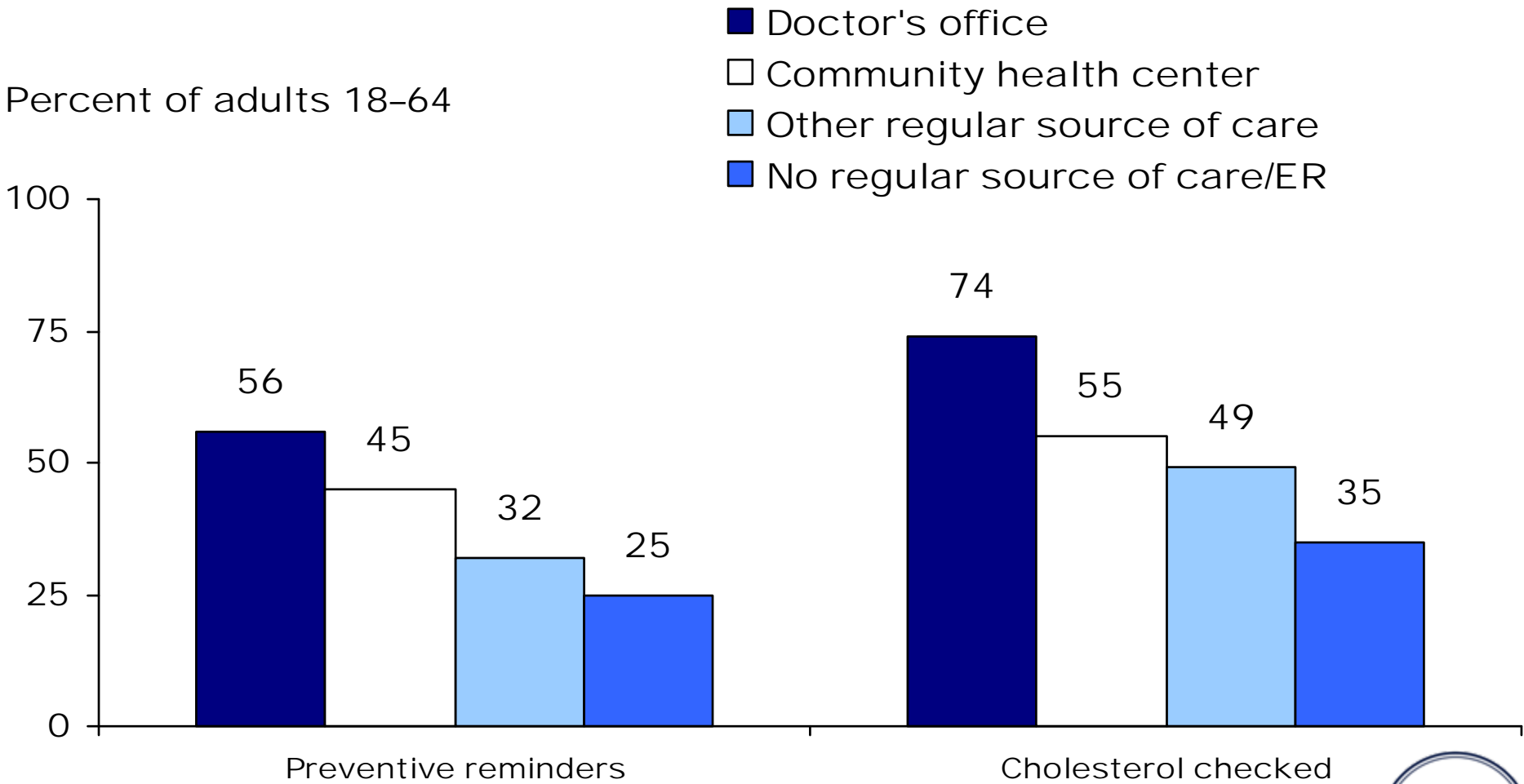
\* Compared with whites, differences remain statistically significant after adjusting for insurance or income.

Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Preventive Care Reminders and Cholesterol Screening Are More Common in Doctors' Offices, But Community Health Centers Are Not Far Behind



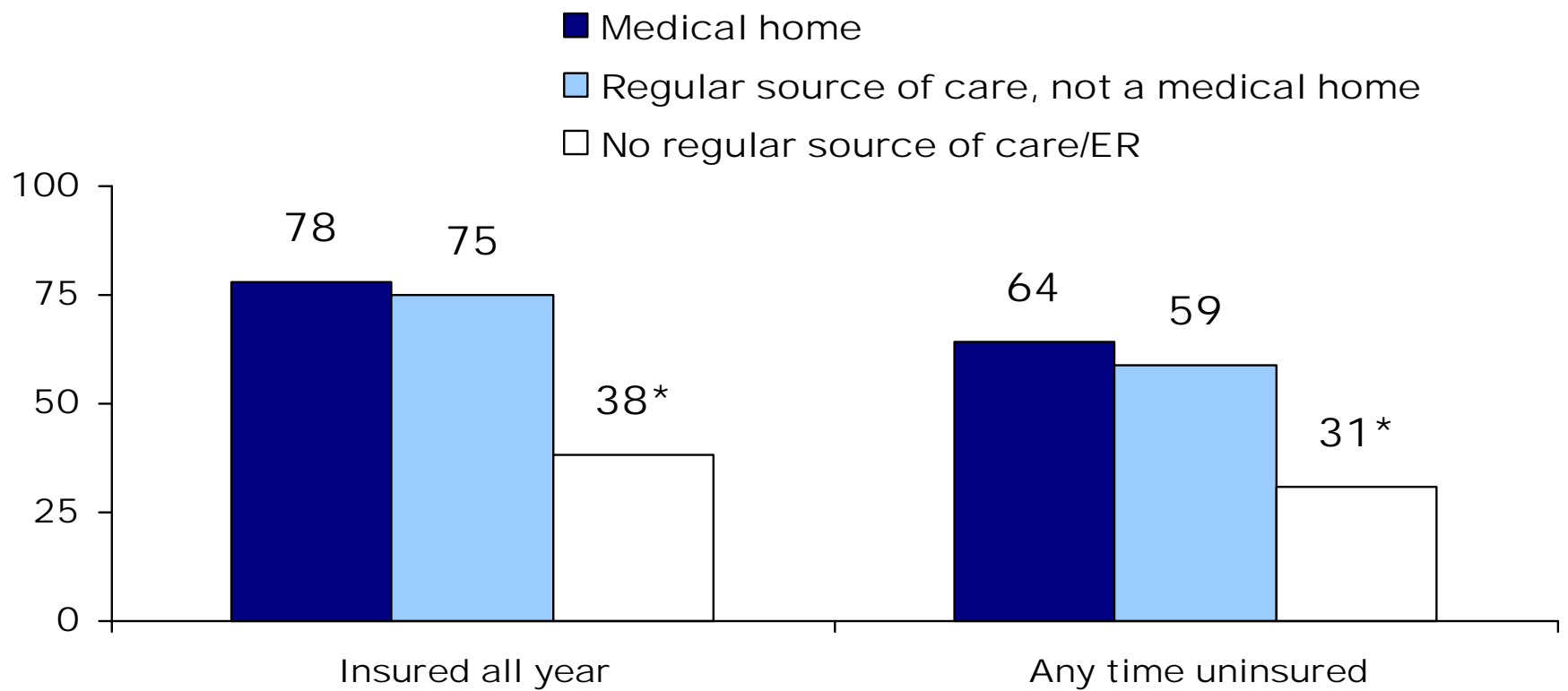
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Even When Uninsured, Adults with a Medical Home Have Higher Rates of Cholesterol Screening

Percent of adults 18–64 who had their cholesterol checked in past five years



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

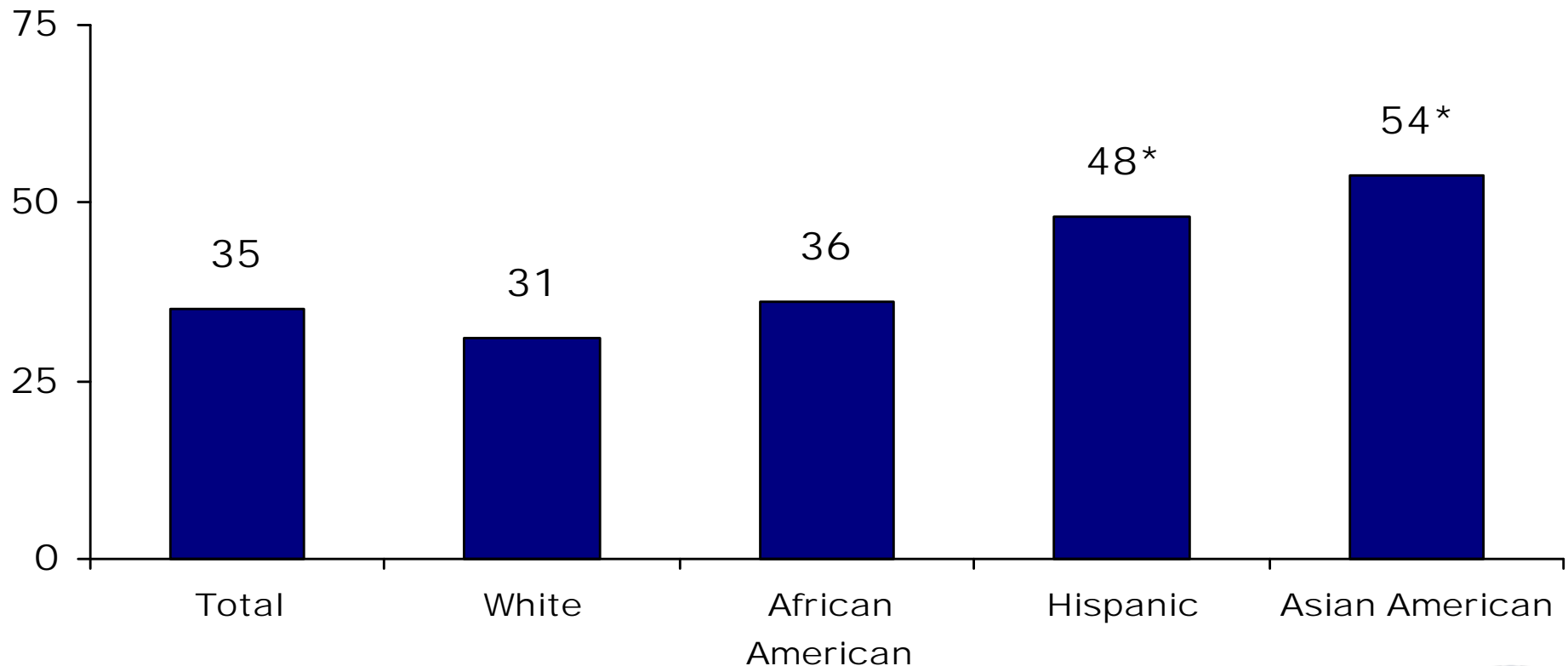
\* Compared with medical home, differences are statistically significant.  
**Source: The Commonwealth Fund 2006 Quality of Care Survey**  
Source: Commonwealth Fund 2006 Health Care Quality Survey.





# About Half or More of Hispanics and Asian Americans with Chronic Conditions Were Not Given Plans to Manage Their Condition at Home

Percent of adults ages 18–64 with any chronic condition who were *not* given a plan from a doctor or nurse to manage condition at home



\* Compared with whites, differences remain statistically significant after adjusting for income or insurance.

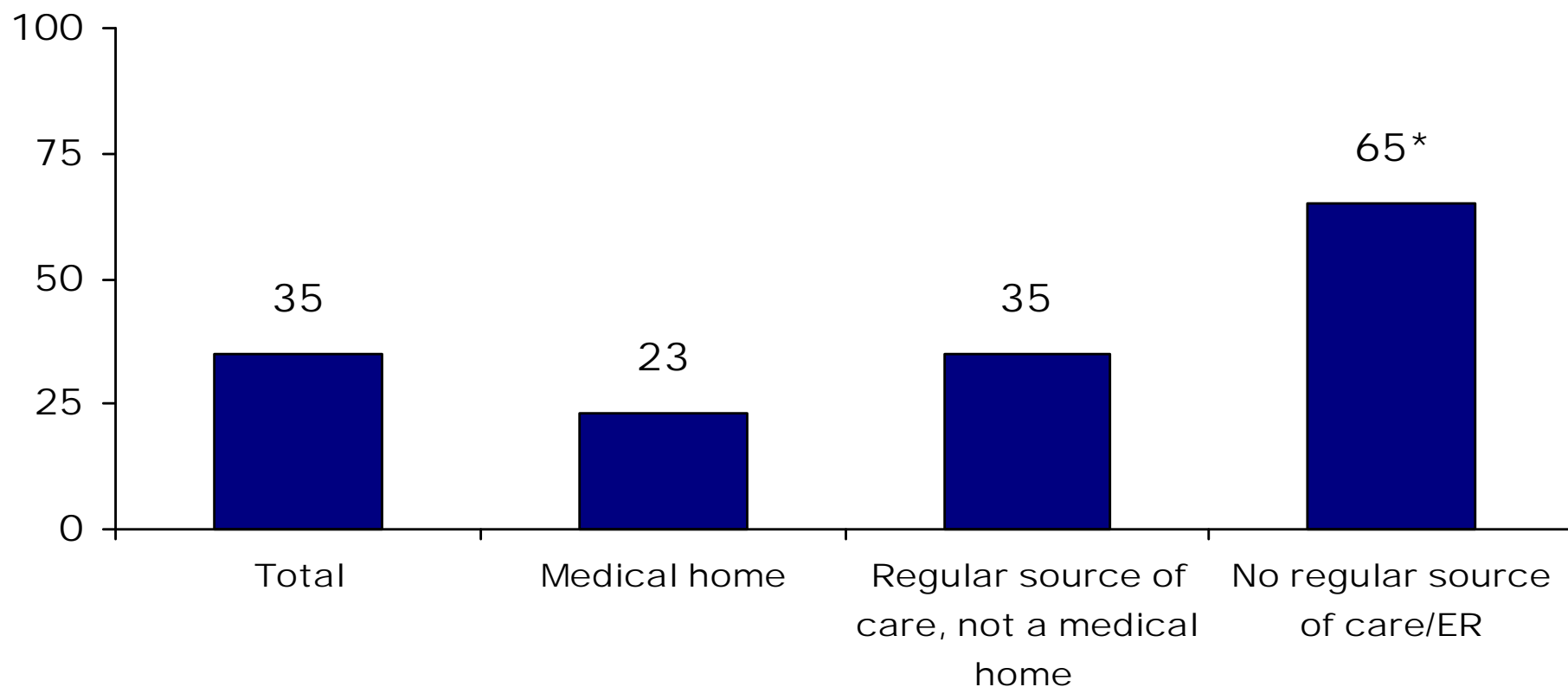
**Source: The Commonwealth Fund 2006 Quality of Care Survey**

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Less than One-Quarter of Adults with Medical Homes Did Not Receive Plans to Manage Their Conditions at Home

Percent of adults ages 18–64 with any chronic condition who were *not* given a plan from a doctor or nurse to manage condition at home



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

\* Compared with medical home, differences remain statistically significant after adjusting for income or insurance.

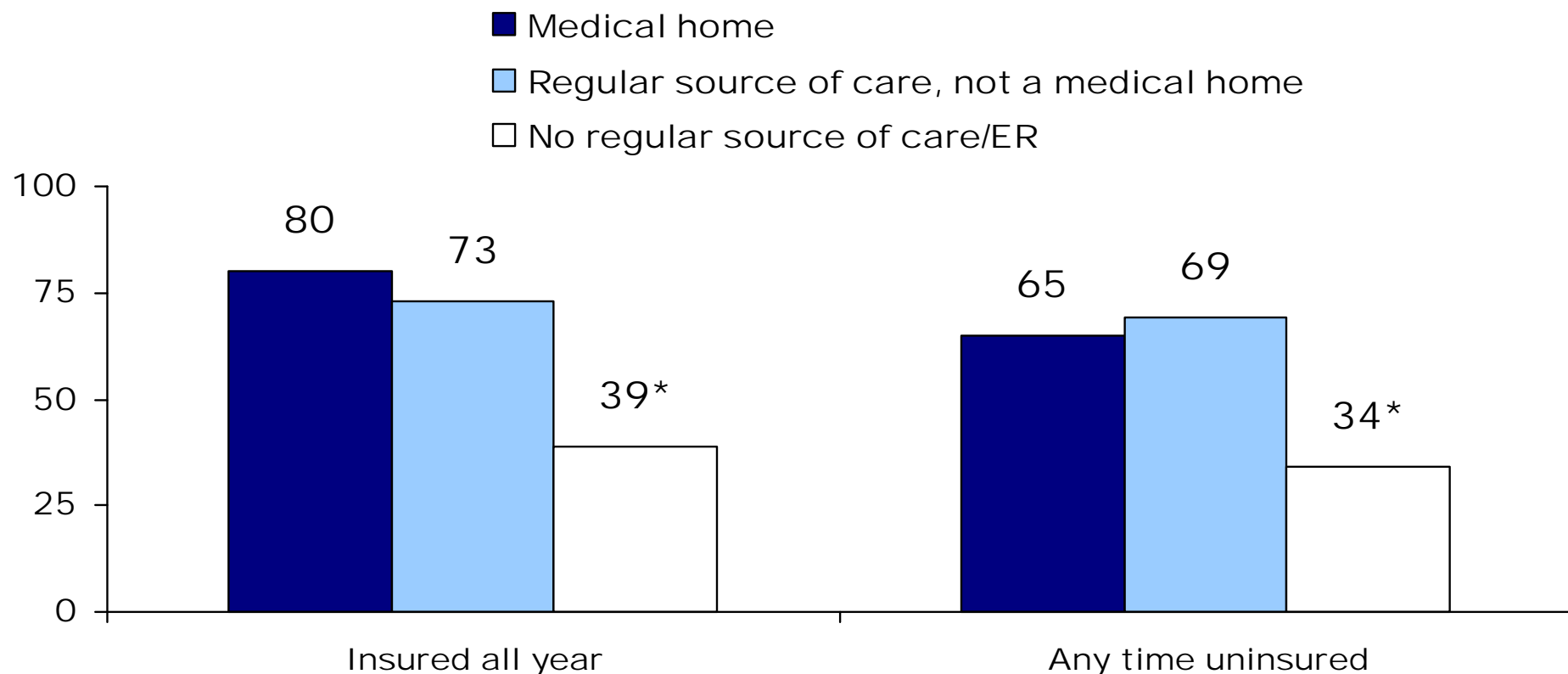
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Adults with a Medical Home Have Higher Rates of Counseling on Diet and Exercise Even When Uninsured

Percent of obese or overweight adults 18–64 who were counseled on diet and exercise by doctor



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

\* Compared with medical home, differences are statistically significant.

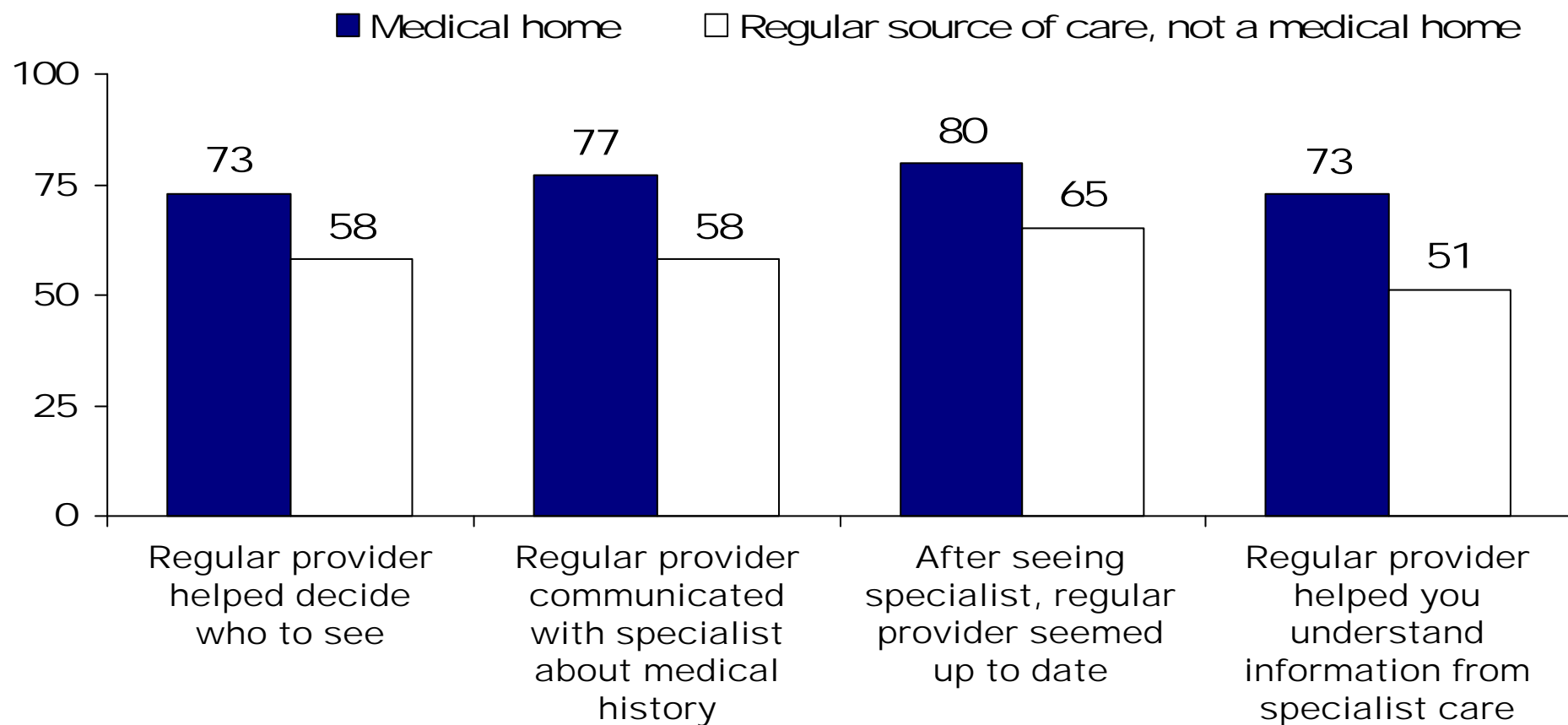
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Patients with a Medical Home Report Better Coordination Between Their Regular Provider and Specialist

Percent of adults ages 18–64 who have seen a specialist in past two years



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

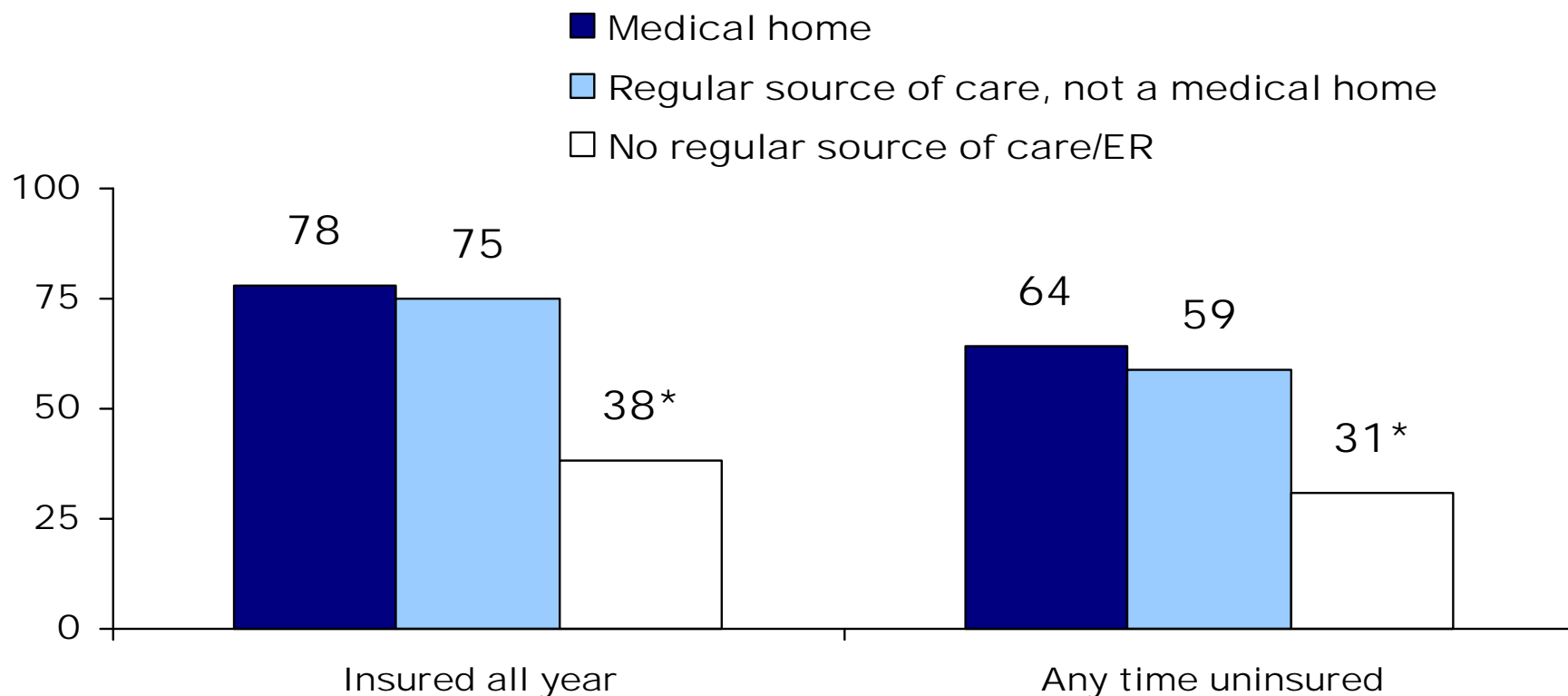
Source: The Commonwealth Fund 2006 Quality of Care Survey

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# Even When Uninsured, Adults with a Medical Home Have Higher Rates of Cholesterol Screening

Percent of adults 18–64 who had their cholesterol checked in past five years



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.

\* Compared with medical home, differences are statistically significant.

Source: **The Commonwealth Fund 2006 Quality of Care Survey**

Source: Commonwealth Fund 2006 Health Care Quality Survey.



# The Goals Of Health Care Delivery Transformation

---

- Extension of quality of life
  - With a measurable impact on public health
- Lessening of health disparities without compromising care of the majority
- Enhanced prevention
- Improved high quality, safe care for all

# How Can We Affordably Enhance Preventive Care and Disease Management, Narrow Disparities, and Extend Quality of Life?

---

- We must facilitate community action and change
- We must provide high quality primary care for all

# Transform Communities?



ina  
No  
vic  
stop  
substances

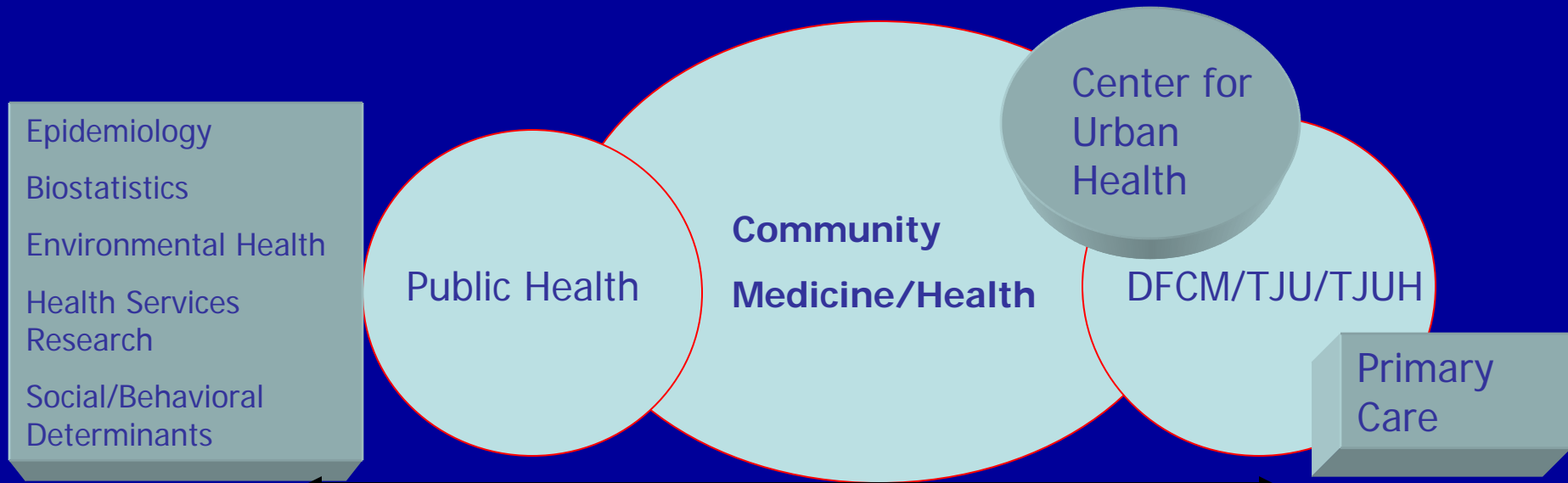




# COMMUNITY MEDICINE/HEALTH

1) Care to vulnerable populations

2) Health promotion through programs and community engagement and partnerships



## North Philadelphia

- Project Home
- Federation
- Churches

## West Philadelphia

- TOCFWH
- Belmont
- Churches
- Senior Centers

## South Philadelphia

- Point Breeze
- Dixon House
- South East Philadelphia Collaborative
- Churches

Mazzoni

Jeff HOPE

YES

Refugee Clinic

PATHWAYS

Wellness Center

Senior Centers

# Why Must We Enhance Primary Care?

---

- Delivery
- Systems based on primary care achieve better health outcomes at lower cost
  - We can't afford any other approach

# Percent Spending On Primary Care

Program/Plan	% Spent on Primary Care
Most U.S. health care plans	6-7%
Kaiser Permanente and Group Health	12-13%
Geisinger Clinic	8.3%
Britain	24%
Kaiser Permanente Northwest	21%

**The sun is rising on a new idea . . .**





# The Research Revolution

---

## Department of Family and Community Medicine

Richard C. Wender, MD

Alumni Professor and Chair

---

An analysis of more than 50 years of research funding from the NIH suggests that it has helped to avert up to 1.35 million deaths per year from: cardiovascular disease, stroke, cancer and diabetes

---

NIH funding has had a  
dramatic positive effect on  
public health

.....or not



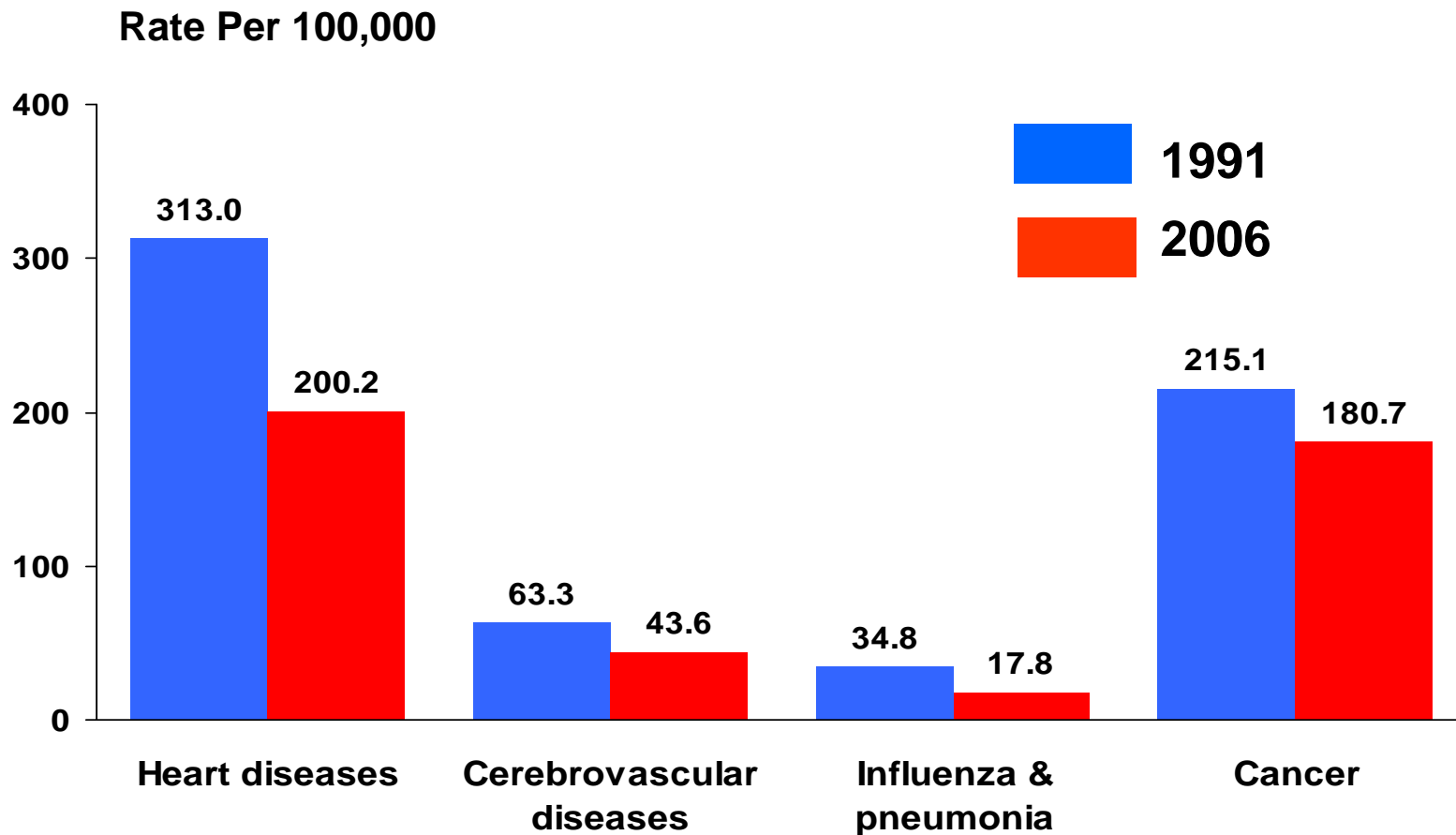


# *The Research Engine*

---

And shouldn't we ultimately  
judge the success of our  
research enterprise by the  
health outcomes of our  
population?

# Change in US Death Rates\* from 1991 to 2006



\* Age-adjusted to 2000 US standard population.

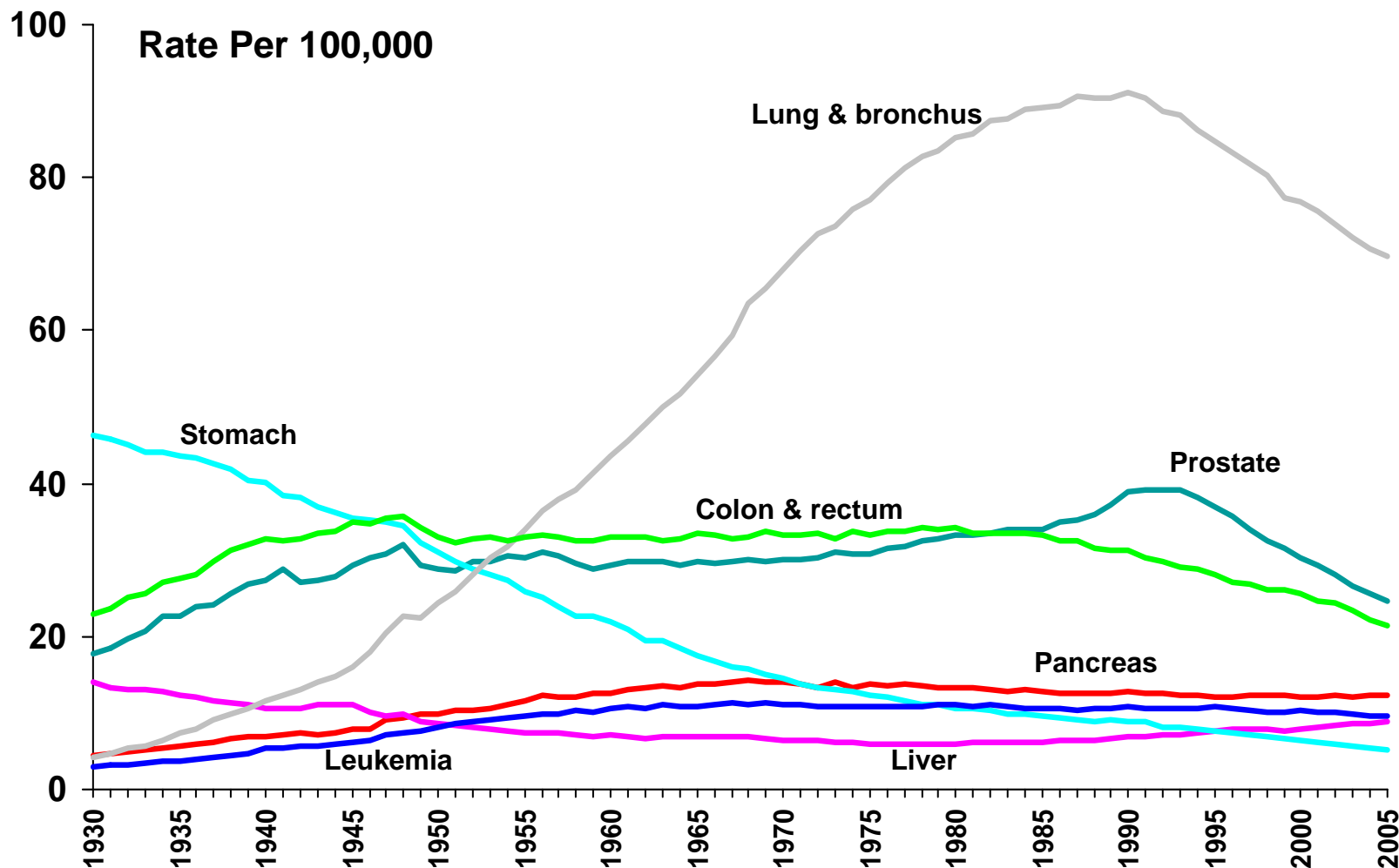
Sources: 1950 Mortality Data - CDC/NCHS, NVSS, Mortality Revised.

2006 Mortality Data: US Mortality Data 2006, NCHS, Centers for Disease Control and Prevention, 2009.

The background of the image is a dense, overlapping pattern of US dollar bills, including \$100, \$50, and \$20 bills, rendered in a light, faded gray tone. The bills are oriented in various directions, creating a textured, financial backdrop.

**Since 1971, Americans have  
spent close to \$300 billion in  
fighting cancer**

# Cancer Death Rates\* Among Men, US, 1930-2005

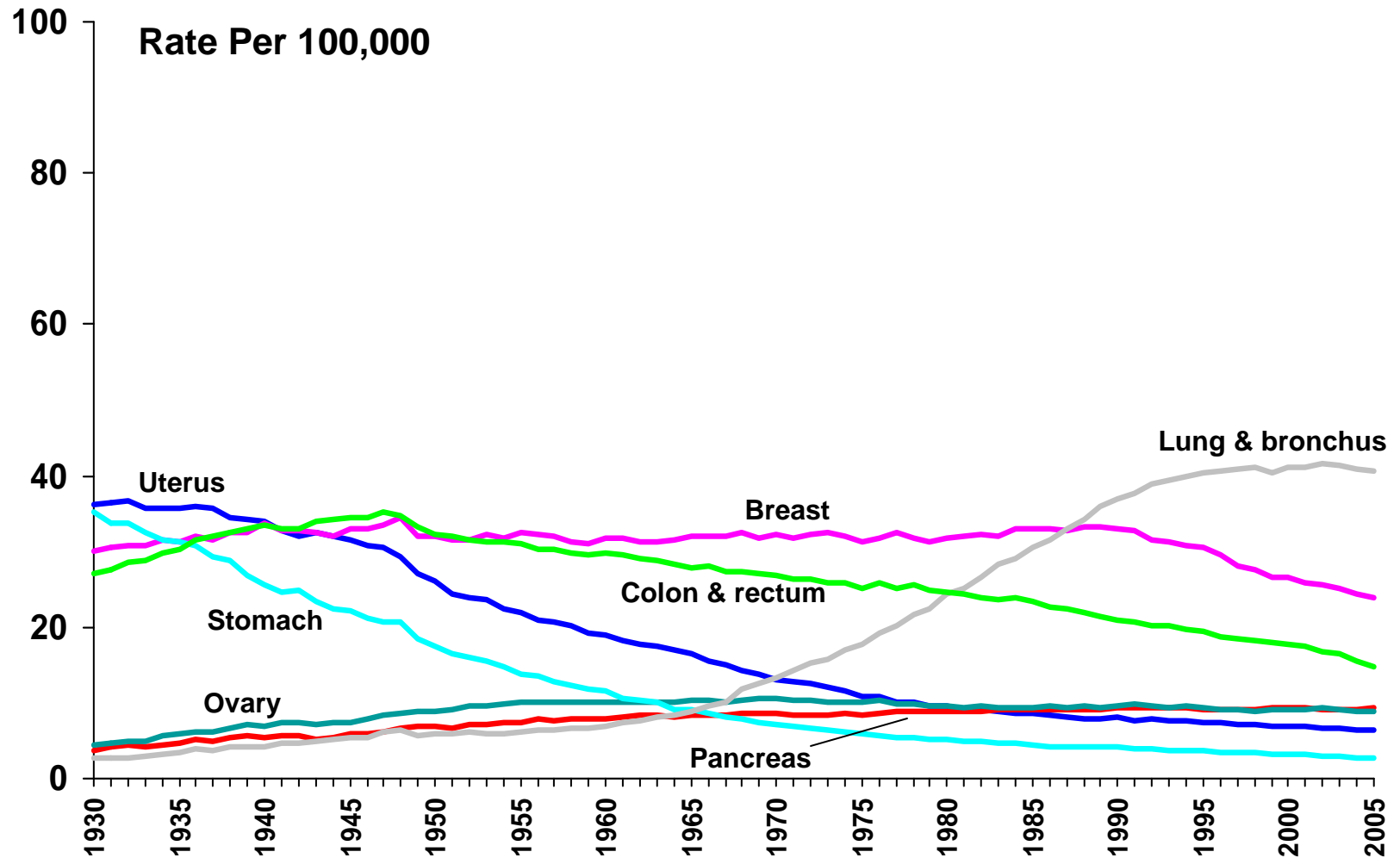


\*Age-adjusted to the 2000 US standard population.

Source: US Mortality Data 1960-2005, US Mortality Volumes 1930-1959,

National Center for Health Statistics, Centers for Disease Control and Prevention, 2008.

# Cancer Death Rates\* Among Women, US, 1930-2005



\*Age-adjusted to the 2000 US standard population.

Source: US Mortality Data 1960-2005, US Mortality Volumes 1930-1959,

National Center for Health Statistics, Centers for Disease Control and Prevention, 2008.

---

“ When you break down the Big Four cancers by stages, long-term survival for advanced cancer has barely budged since the 1970’s”

“Through  
published  
studies .



community

*...on mice*



---

“ . . . Many more cancer deaths can be averted by concerted action to control tobacco and obesity, by redoubling efforts in mammography and colorectal cancer screening, and by enacting policies to close gaps in access to cancer detection and treatment services”

---

Flat NIH budget from 2004-  
2008 created acute research  
distress

---

Funding for clinical research is 1/3  
of NIH budget

Funding for true translational  
research, far lower

---

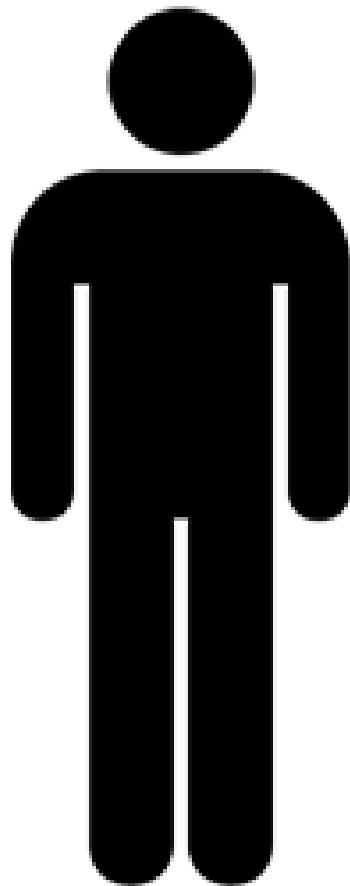
Making a living seeking NIH and  
CIHR funding through the current  
peer review process can be a scary  
and frustrating experience

**I wonder what it was like...**

**In The Beginning...**

# **The first research project**

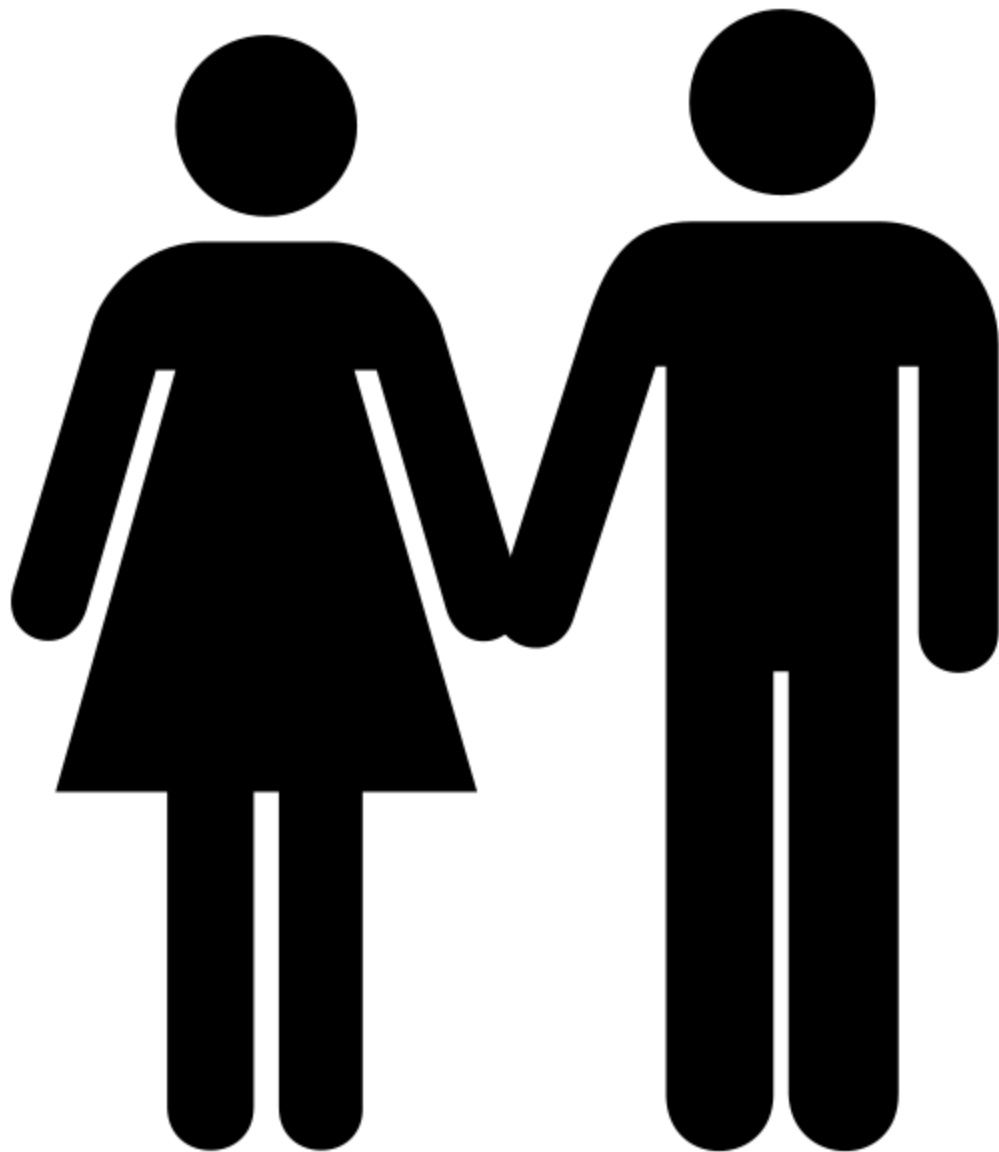






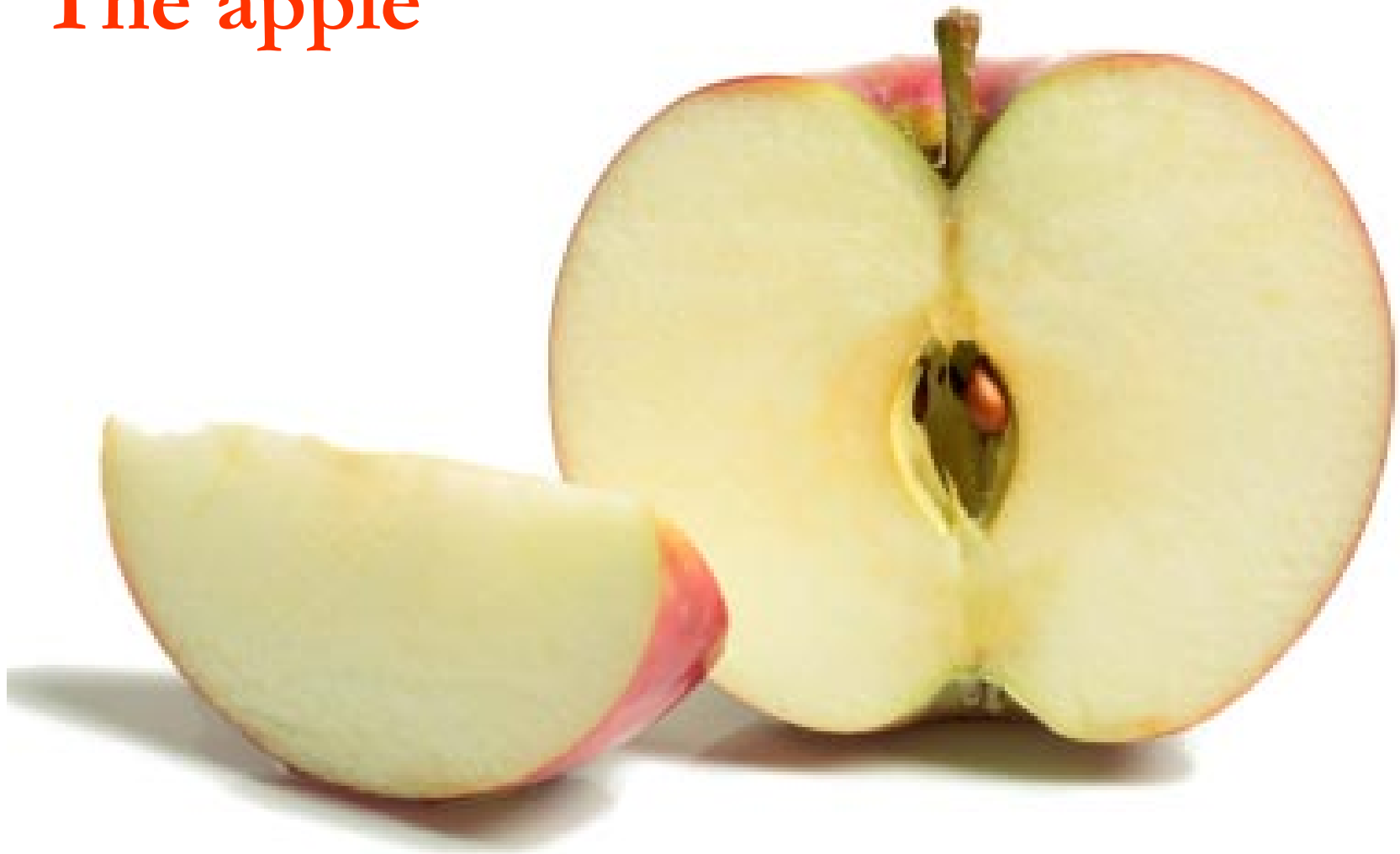


Adam



**The effect of deception in  
a group of educationally  
naïve humans**

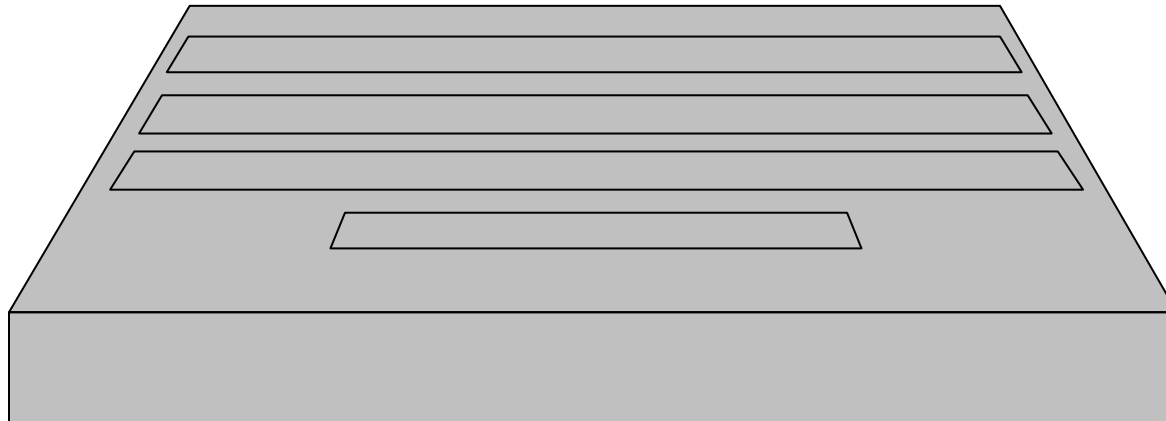
# The apple





Dear God:

Fascinating and  
innovative! But the  
title is not working  
for us. Too long and  
"researchy". And we  
definitely don't get  
the apple. Why not  
something exotic,  
like...



# *The Pomegranate*



God prepared a resubmission



**The effect of deception in  
a group of educationally  
naïve humans**

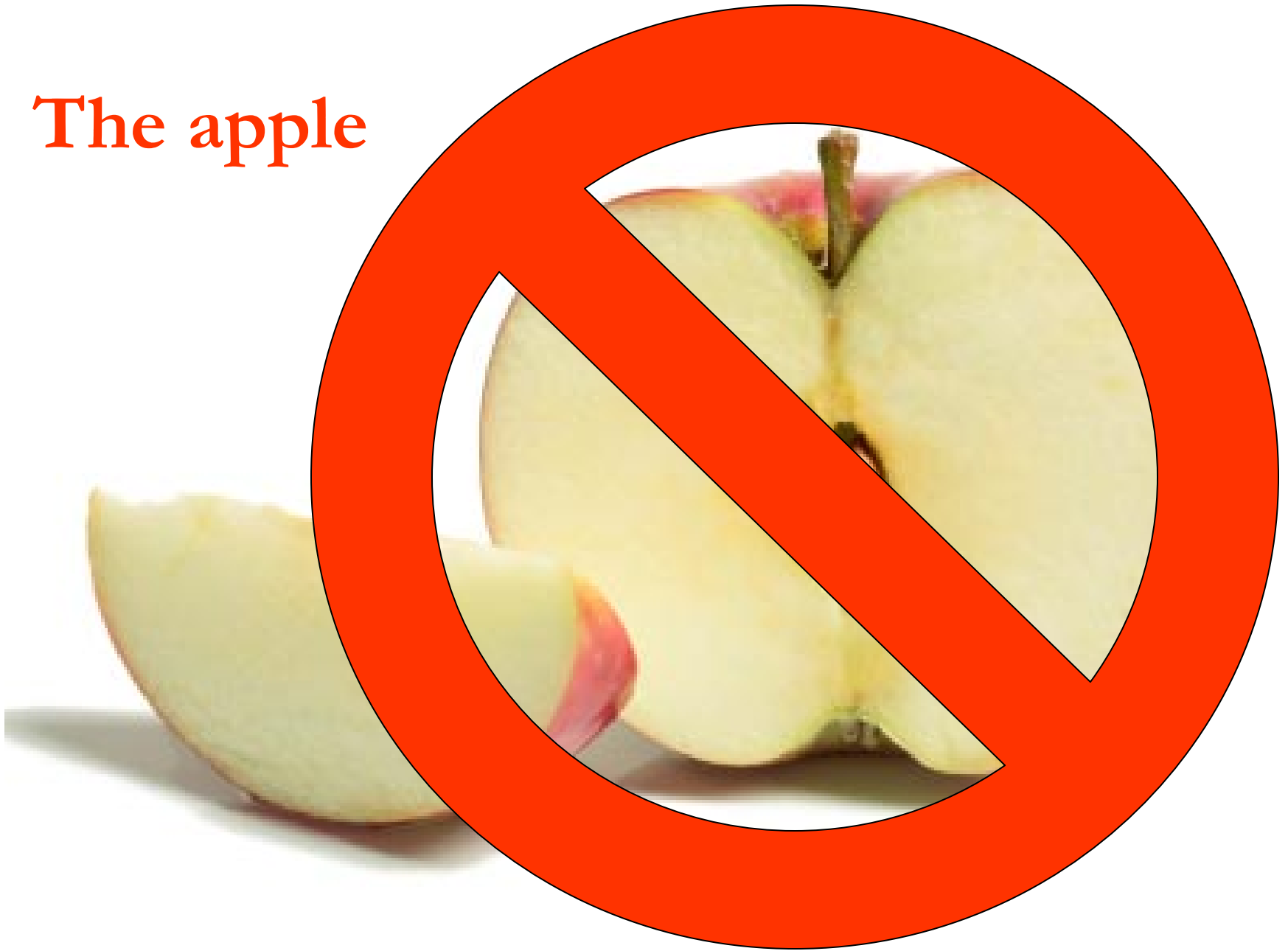
# The Effect of Deception in a group of Educationally Naïve humans

....Or.....

# *The EDEN Project*



The apple

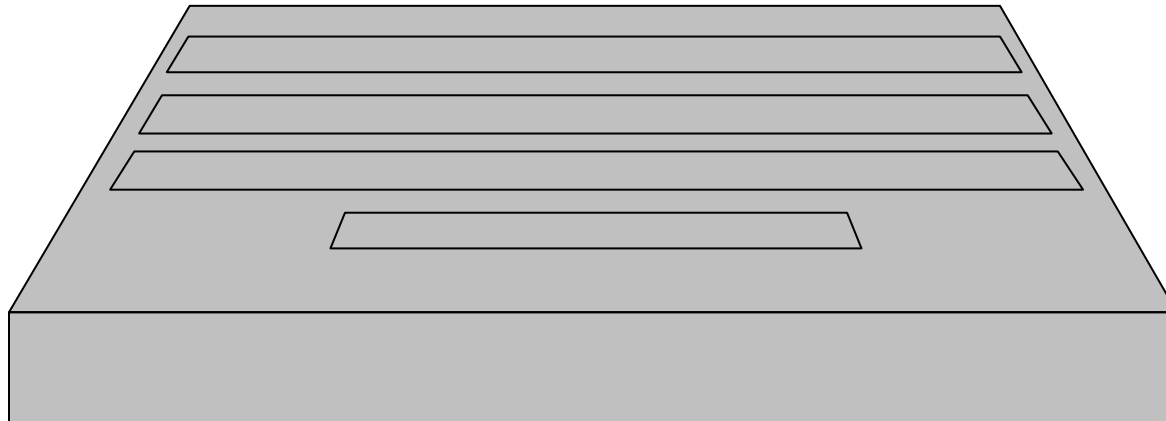


# *The Pomegranate*

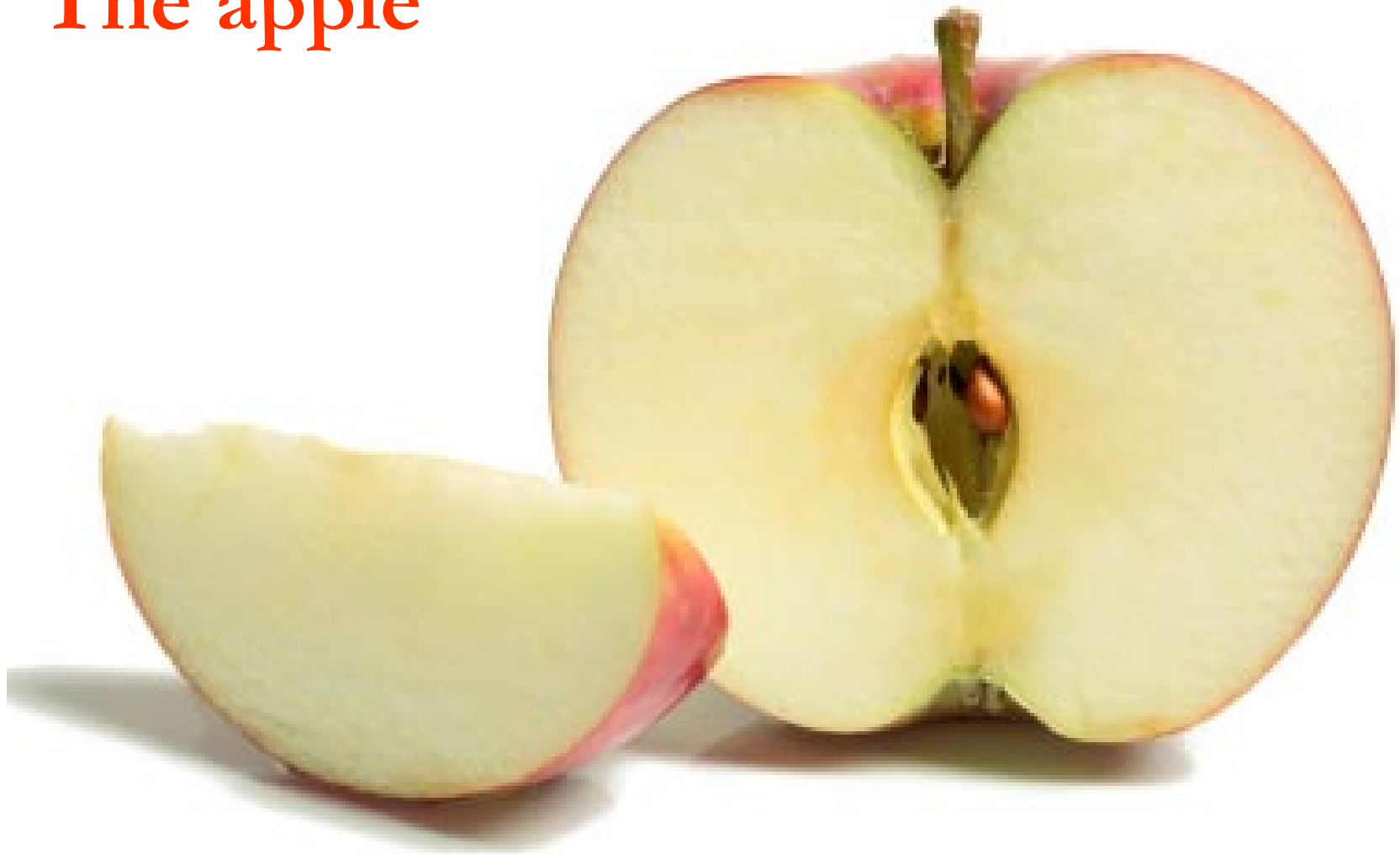


Dear God:

We are writing to you  
about the EDEN project.  
We LOVE it!!!!!! But  
what's the deal with  
the pomegranate...  
Why not something more  
simple and delicious -  
like...



# The apple

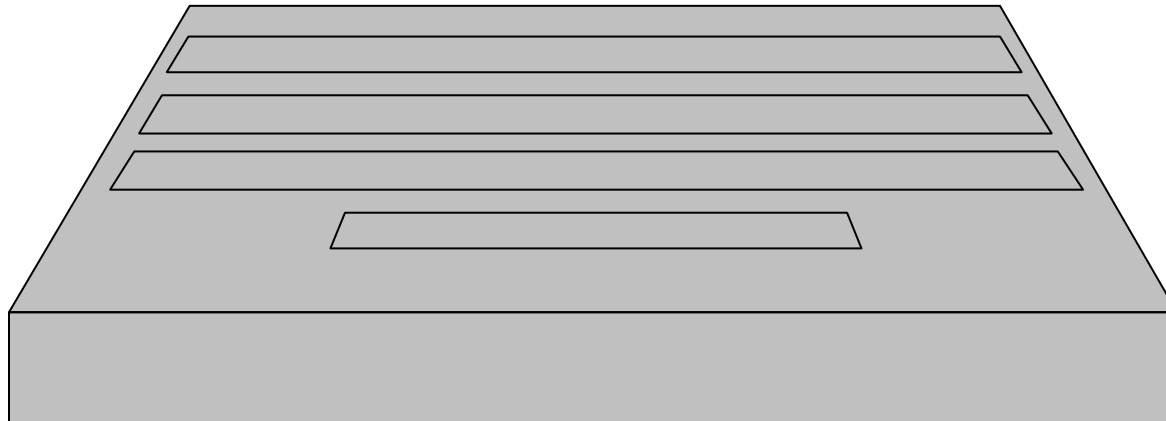


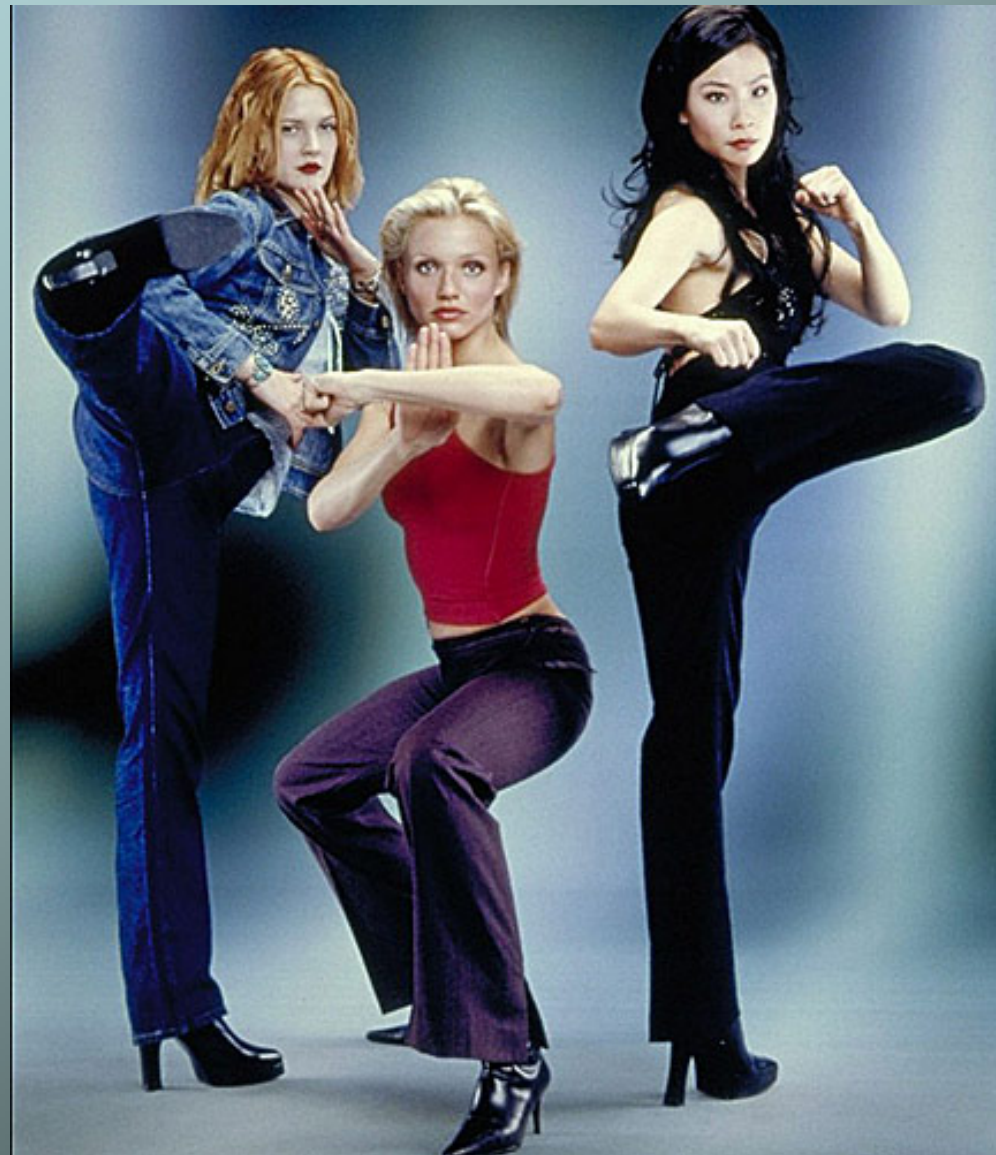
God responded

*“But the Angels are the ones  
who wanted the pomegranate”*



That was the Angels  
from California. We  
sent the  
resubmission to a  
different review  
group.





The apple is **BACK!**



**Human beings' insatiable  
drive to acquire new  
knowledge was confirmed**

# God thought

*“We need a neater way to  
investigate questions about  
human behavior”*

*A neater way to investigate  
questions about human  
behavior*

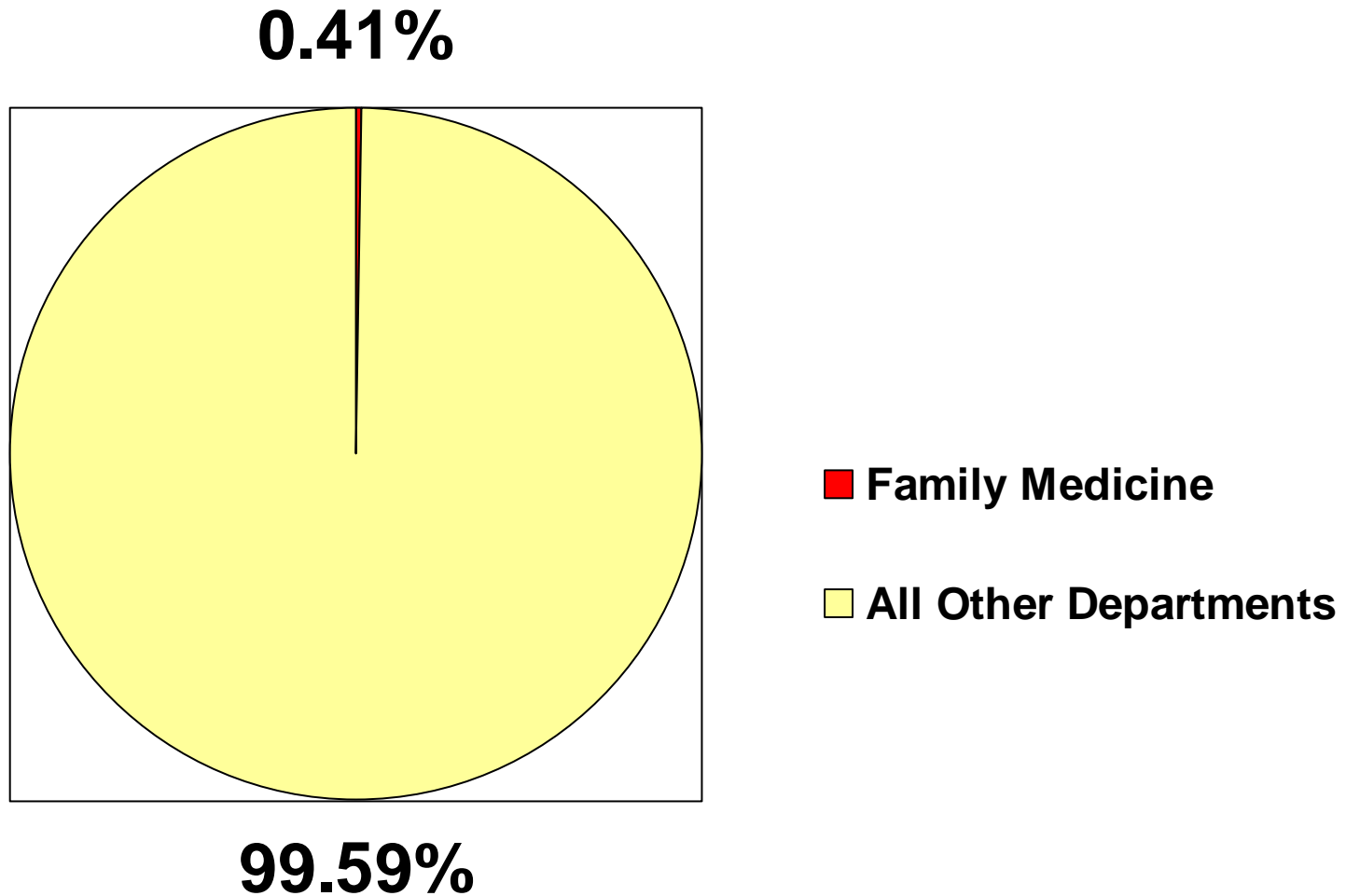
*A Neater way to  
Investigate questions  
about Human behavior*

*....Or.....*

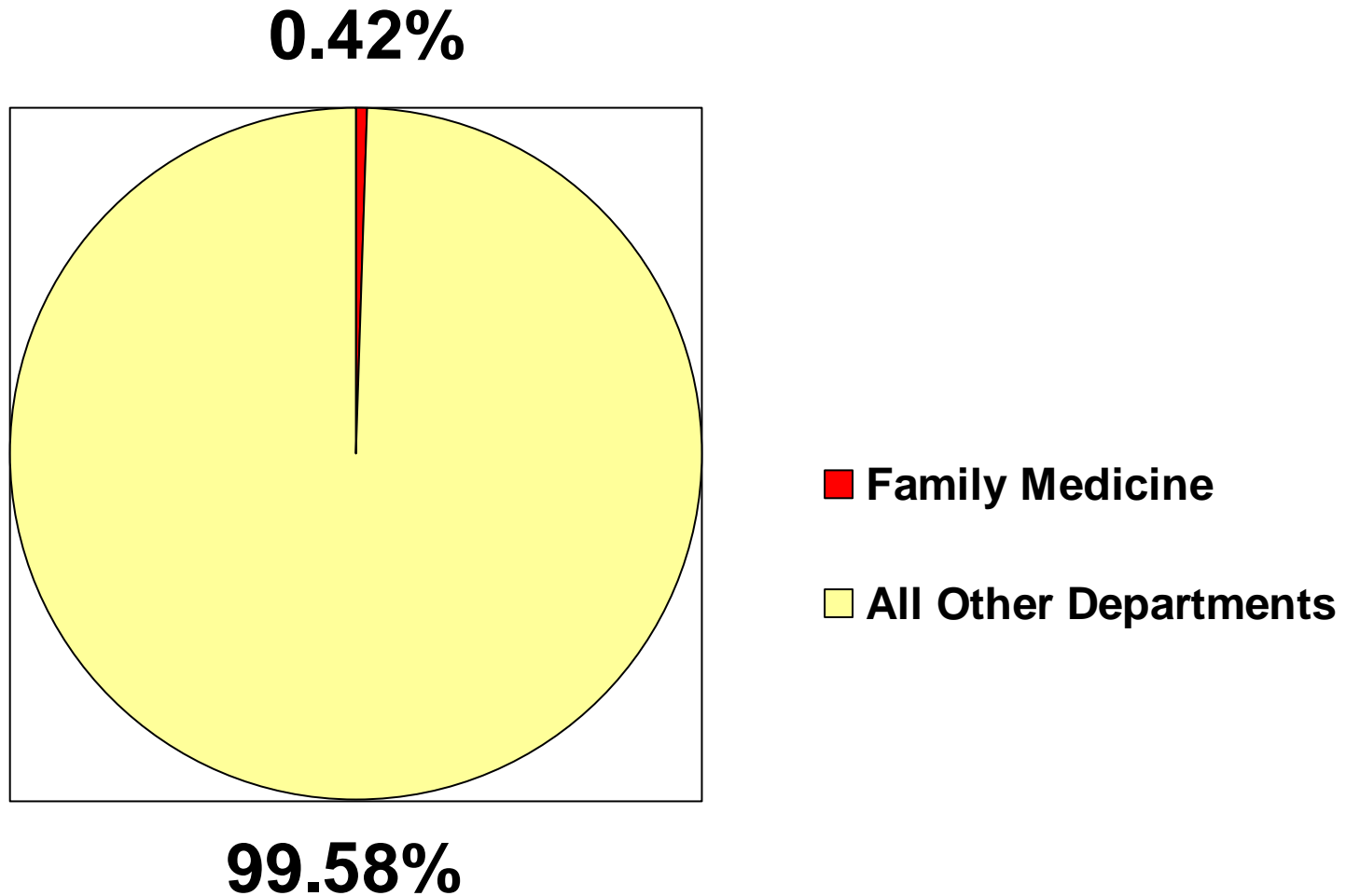
*NIH*



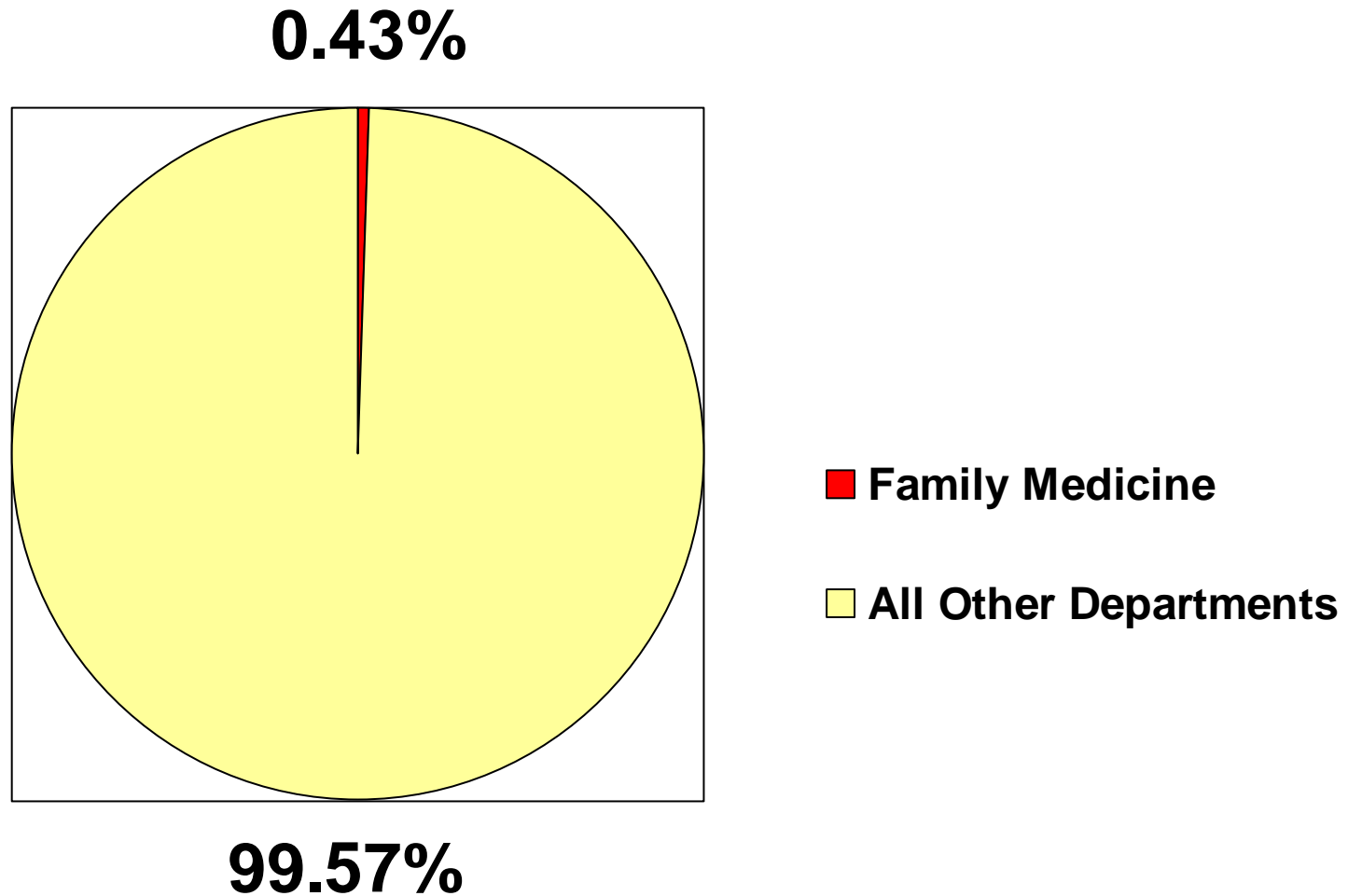
# NIH Funding 2006



# NIH Funding 2007



# NIH Funding 2008



A faded, sepia-toned portrait of Johannes Kepler, showing him from the chest up. He has a high forehead, deep-set eyes, and a full beard. The portrait is centered in the background of the slide.

*Johannes Kepler (1571-1630)*

**10**

*Students interested in becoming  
researchers don't choose family medicine*

---

“Only 1.4% of medical students graduating from MD/PhD programs from 2000 – 2006 chose family medicine as their career paths – by far the lowest of any specialty”

Seeharsen DA, Weaver SP. Fam Med 2009  
Andriole DA et al. JAMA 2008

*Paul Dirac (1902-1984)*

**9**

*Many family medicine academic programs do not conduct research*

---

In 2007, only 44 or 120  
departments of family medicine  
sponsored an NIH Principle  
Investigator

A faded, sepia-toned portrait of Edwin Hubble, showing his face from the chest up, looking slightly to the right. The image is semi-transparent, allowing the text to be overlaid.

*Edwin Hubble (1889-1953)*

**8**

*Family medicine academic leaders  
underestimate what it takes to succeed*



# NIH Funding in Family Medicine: An Analysis of 2003 Awards

*Howard K. Rabinowitz, MD*

*Julie A. Becker, PhD, MPH*

*Naomi D. Gregory, BA*

*Richard C. Wender, MD*

Department of Family and Community  
Medicine, Jefferson Medical College,  
Thomas Jefferson University,  
Philadelphia, Pa

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## ABSTRACT

**PURPOSE** We wanted to analyze National Institutes of Health (NIH) awards to departments of family medicine.

**METHODS** We obtained the list of NIH awards to departments of family medicine in 2003, and collected additional information from the Internet regarding each principal investigator (PI), including whether he or she worked primarily in a core (central) organizational component within a family medicine department.

**RESULTS** One hundred forty-nine NIH awards were granted to 45 departments of family medicine, for a total of \$60,085,000. Of 146 awards with a designated PI, approximately two thirds of awards (89, 61%) and awarded dollars (\$39,850,000, 70%) went to PIs who were either not full-time family medicine faculty primarily working in family medicine departments, or they were not working in core family medicine organizational components. Few awards to physician PIs in these non-core areas were to family physicians (4 of 37, 11%), whereas most awards to physician PIs in core family medicine areas went to family physicians (40 of 45, 89%). In contrast, most K awards (research career programs) went to PIs in core areas (19 of 23, 83%), and most to family physicians (17 of 23, 74%). Nationally, only 17 R01 awards (research project, traditional) went to family physicians.

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The majority of Family Medicine  
NIH funded investigators have a  
Masters or PhD

One-year “faculty development”  
fellowships will not do the trick

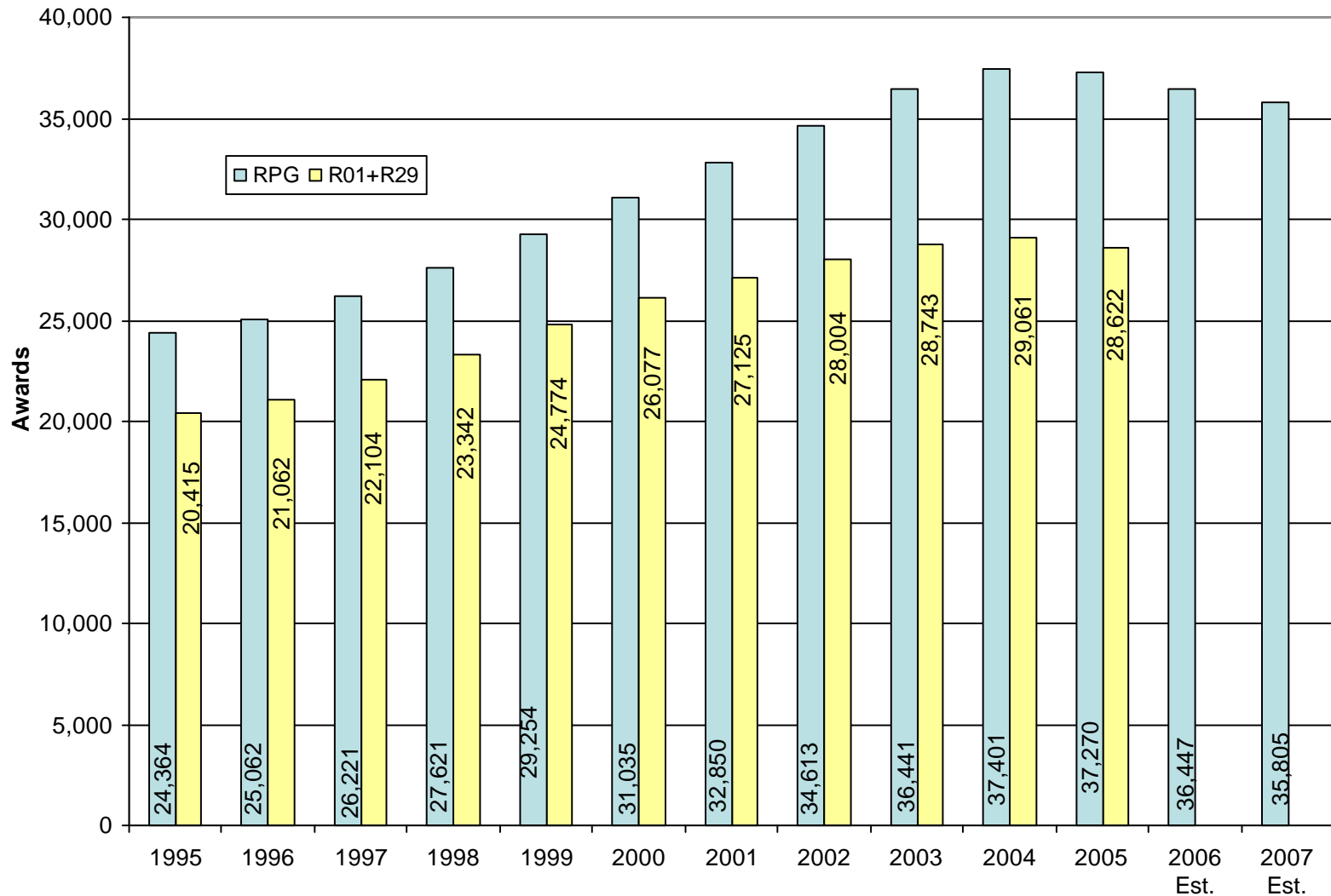
A faint, sepia-toned portrait of Emil Fisher, a man with a full beard and mustache, wearing a suit and tie, serves as the background for the slide.

*Emil Fisher (1852-1919)*

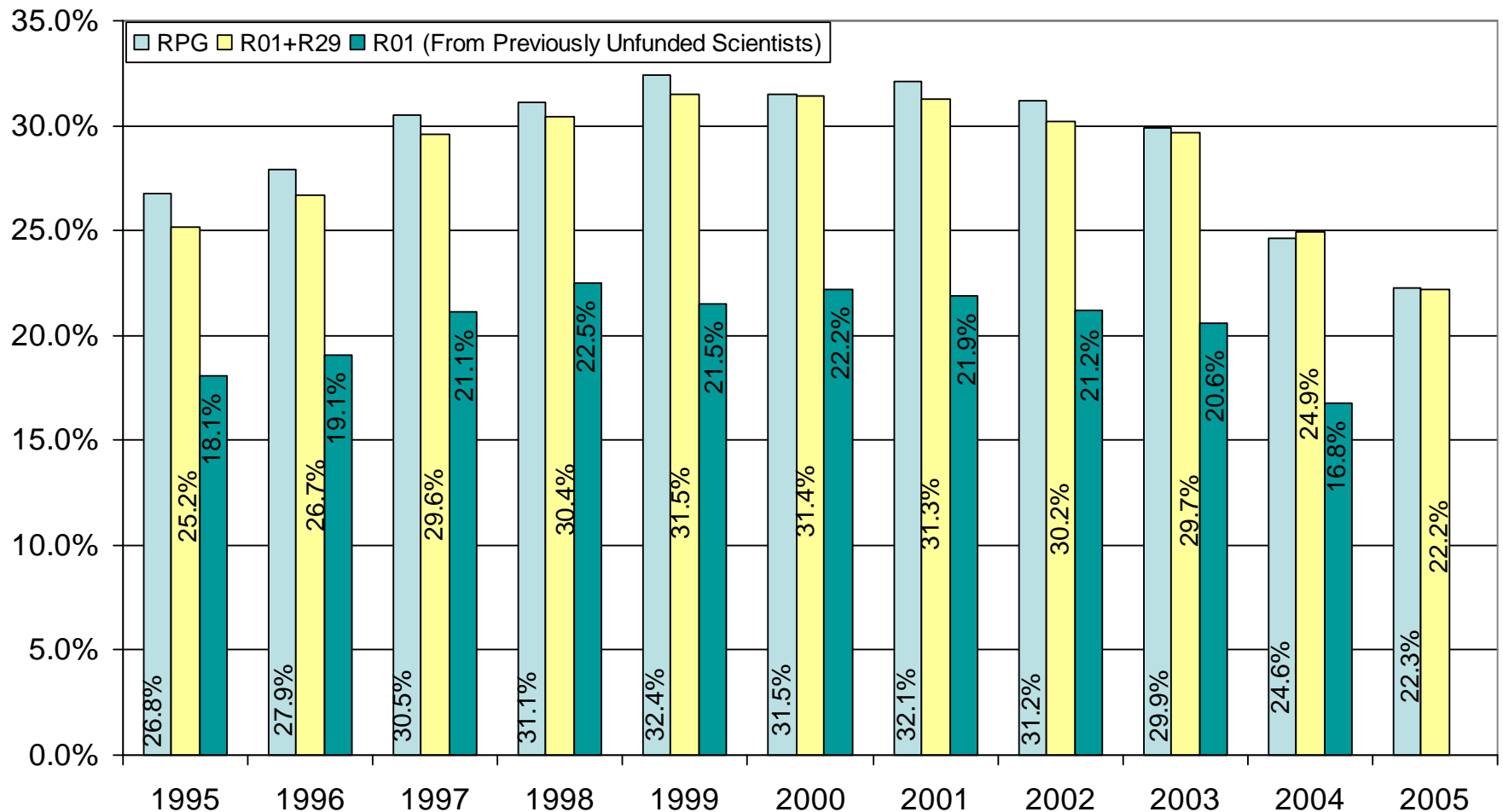
**7**

*More and more are competing for  
less and less*

# Number of NIH Awards: FY1995-2007



# Success Rates For All Competing NIH Grants: FY1995-2005



A faded, sepia-toned portrait of James Clerk Maxwell, showing him from the chest up, facing slightly to the left. He has a full, curly beard and is wearing a dark suit with a white shirt and a dark cravat.

*James Clerk Maxwell (1831-1879)*

**6**

*We are generalists and proud of it!*

---

**But NIH Does Not Support Generalism**

## Faculty Development

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# Family Medicine, the NIH, and the Medical-Research Roadmap: Perspectives From Inside the NIH

Sean C. Lucan, MD, MPH; Frances K. Barg, PhD, MEd;  
Andrew W. Bazemore, MD, MPH; Robert L. Phillips, Jr, MD, MSPH

**Background and Objectives:** Family medicine has had little engagement with the National Institutes of Health (NIH), and it is unclear what NIH officials think about this. **Methods:** Purposive sampling identified 13 key informants at NIH for open-ended, semi-structured interviews. Evaluation was by content analysis. **Results:** NIH officials expressed the perception that family physicians have strong relationships with patients and communities and focus on interdisciplinary collaboration but that they do limited research and have weak research infrastructure. They also indicated that NIH has repackaged its stated focus, to include areas of research that might be applicable to family medi-



---

“NIH is ‘two-thirds basic science’  
and ‘disease-based’ . . . family  
physicians have ‘no natural home  
for seeking funding’”

A faint, grayscale portrait of Louis Pasteur, showing his head and shoulders, is centered in the background of the slide. He has a full beard and is wearing a suit.

*Louis Pasteur (1882-1895)*

**5**

*Family medicine research mentors are  
few and far between*

---

Mentored career development awards are an important bridge to becoming an independent investigator

But: obtaining funding requires a skilled mentor with a proven track record

# NIH Funding in Family Medicine – the 2003 Awards

---

- 146 total awards to 109 PI's
- 57 to PI's in “core” family medicine department
- 44 awards to family physicians
  - 17 family physicians were PI's on RO1 grants



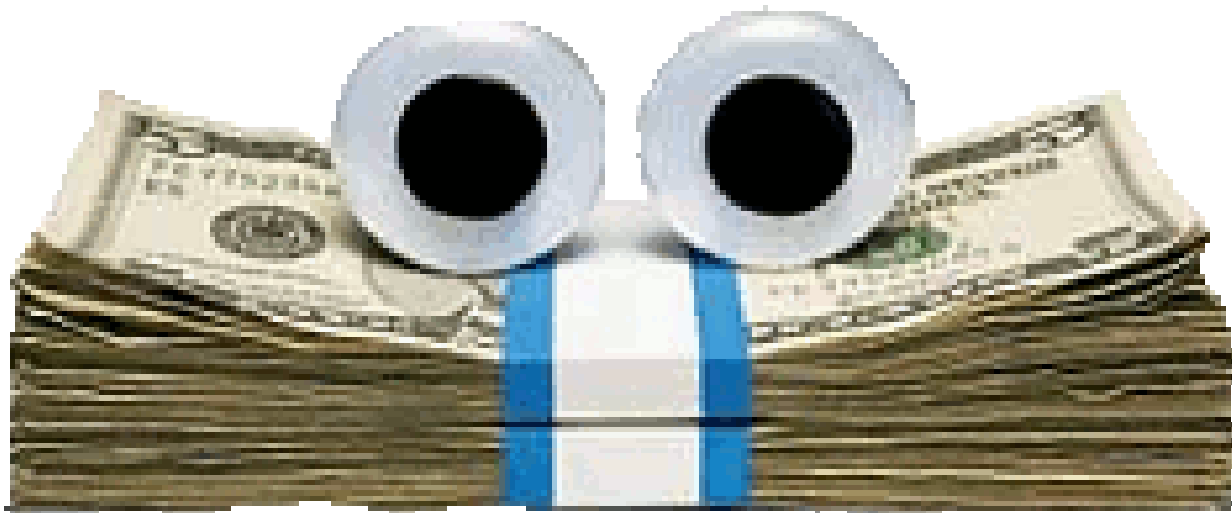
*Charles Darwin (1809-1882)*

**4**

*Family medicine research infrastructure  
has no business model*

Department. ~~But we have no~~  
~~clinical surplus or profit~~  
surplus or profit from clinical work  
to support research infrastructure

a



*Sir Isaac Newton (1643-1727)*

3

*Clinical research is really, really hard  
to do*

And population based research  
in the community is a bear!





---

“...clinical research has become increasingly difficult to do and...the scientific community ...must recast its entire system of clinical research”

<http://nihroadmap.nih.gov>

---

Experiments take longer.  
Publications are delayed.  
Costs are high.

*Galileo Galilei (1564-1642)*

**2**

*Academic Health Centers invest in  
surer research bets*

---

Compare the recruitment “packages”  
for Chairs of Pathology to Chairs of  
Family Medicine



I boldly negotiated a reduction in  
the planned budget cut

And the number one obstacle to  
growing Family Medicine  
research is . . .

A faded, sepia-toned portrait of Albert Einstein, showing his characteristic wild hair and mustache, serves as the background for the slide.

*Albert Einstein (1879-1955)*

**1**

*Academia continues to question the value of primary care services and, thus, primary care research*

Where does primary care matter?





# The Impact of Prevention on Reducing the Burden of Cardiovascular Disease

---

- 78% of adults ages 20-80 are eligible for a prevention activity
- If 100% received these activities, 63% fewer MI's and 31% fewer CVA's would occur
- Bridging just half of the quality gap can prevent 36% of MI's and 20% of CVA's

---

A physician recommendation is  
the strongest predictor of whether  
or not a patient is screened for  
colon or breast cancer

# Why Is Primary Care Important?

---

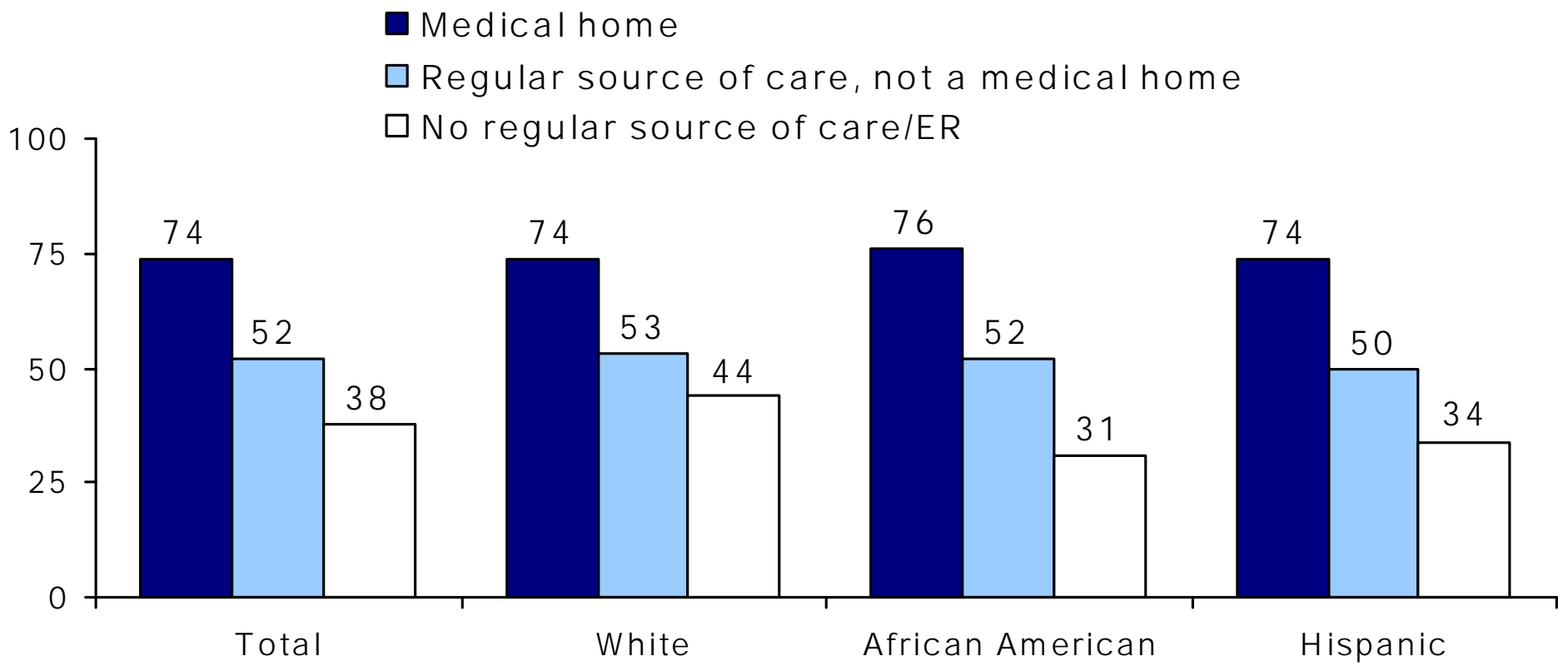
Better health outcomes

Lower costs

Greater equity in health

# Racial and Ethnic Differences in Getting Needed Medical Care Are Eliminated When Adults Have Medical Homes

Percent of adults 18–64 reporting always  
getting care they need when they need it



Note: Medical home includes having a regular provider or place of care, reporting no difficulty contacting provider by phone or getting advice and medical care on weekends or evenings, and always or often finding office visits well organized and running on time.  
Source: Commonwealth Fund 2006 Health Care Quality Survey.

---

**Skepticism about primary  
care performance and value  
persists**

“Error“Primary care physicians often  
depressio field w practiced  
diag weight loss counseling”

Mitchell AJ, Vaz A, Bab S. The Lancet Vol 374 Issue 9600 p. 609-619, Aug 2009

“Often, clinicians fail to  
discuss health-related  
adults and 8% of overweight  
prescribe antiviral  
behaviors during ambulatory  
medications, inappropriately  
visits”

Scott JG et al. Preventive Medicine Vol 38 Issue 6 June 2004, p 819-827

for influenza patients”  
Mo J, et al. Prev Med 2004, 34:815-822

Linder JA, et al. J. of Gen Int Med 24(4) pp504-510 Feb 2009

---

**But one central harsh reality is  
stoking the fires of a change in  
our research enterprise**

---

**Our nation's health is  
unconscionably poor  
... and Canada has a long way to  
go**



# The Canadian and US Health Report Cards

			MORTALITY DUE TO:			
	Life Expectancy	Premature Mortality	Cancer	Circulatory Disease	Diabetes	Infant Mortality
Canada	B	B	B	B	C	B
United States	D	D	B	D	C	C
Japan	A	A	A	A	A	A

<http://www.conferenceboard.ca/hcp/details/health.aspx>

---

**Despite spending more on health care research than any nation on earth, the US remains the least healthy high resource country**

---

**And the epidemic of over-eating  
and sedentary living threatens  
progress for all the major killers**

The US is the 9<sup>th</sup> heaviest nation on earth...



...resulting in 30% of our rising health care costs  
(*Canadians rank 35<sup>th</sup>*)

Tobacco use has declined...



...but percent of new  
adolescent smokers  
has stabilized  
- 17.9% of all  
Canadians smoke



**The seeds of a research revolution  
have been sown**

# There Are Four Components to the Research Revolution

---

- Promotion of clinical research – the NIH Roadmap
- Investment in high-risk research
- The dream of personalized medicine
- Creation of a new infrastructure for translational research
  - Clinical and Translational Science Awards

# The NIH Roadmap for Medical Research

---

- Launched in September 2004
- To address roadblocks to research
- To transform the way research is conducted
- Programs are expected to have “exceptionally high potential to transform the manner in which biomedical research is conducted”



# The NIH Roadmap

---

- Faster high-risk/high reward research
- Enable the development of transformative tools and methodologies
- Fill fundamental knowledge gaps
- Change academic culture to foster collaboration

---

Personalized medicine – the use  
of genetic information to predict  
risk and therapeutic response

# The Inherent Tension of the Research Revolution



# Clinical and Translational Science Awards

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- By 2012, NIH expects to fund 60 centers with a budget of over \$500 million a year

# Clinical and Translational Science Awards

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The goal is to

“...help deliver improved medical care to the entire population, helping to disseminate new technologies and new advances into clinical practice”

# Clinical and Translational Screening Awards

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No funding “event” has created more opportunities for Departments of Family Medicine to become engaged in the central research enterprises of their academic centers

# The Meaning of Translational Research and Why It Matters

Steven H. Woolf, MD, MPH

**T**RANSLATIONAL RESEARCH MEANS DIFFERENT THINGS to different people, but it seems important to almost everyone. The National Institutes of Health (NIH) has made translational research a priority, forming centers of translational research at its institutes and launching the Clinical and Translational Science Award (CTSA) program in 2006. With 24 CTSA-funded academic centers already established, other universities are transforming themselves to compete for upcoming CTSA grants. By 2012, the NIH expects to fund 60 such centers with a budget of \$500 million per year.<sup>1</sup> Besides academic centers, foundations, industry, disease-related organizations, and

only the starting point for this second area of research. According to McGlynn et al,<sup>4</sup> US patients receive only half of recommended services. The second area of translational research seeks to close that gap and improve quality by improving access, reorganizing and coordinating systems of care, helping clinicians and patients to change behaviors and make more informed choices, providing reminders and point-of-care decision support tools, and strengthening the patient-clinician relationship.

The distinction between these 2 definitions of translational research was articulated by the Institute of Medicine's Clinical Research Roundtable,<sup>5</sup> which described 2 "translational blocks" in the clinical research enterprise and which some now label as T1 and T2. The first roadblock (T1) was described by the roundtable as "the transfer of new

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*“U.S. patients receive only half of recommended services”*

*“The second area of translational research seeks to close that gap...by improving access, reorganizing and coordinating systems of care”*



## New Treatments Are Important, But.....

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*“...patients might benefit even more-  
and more patients might benefit – if  
the health care system performed  
better in delivering existing treatments  
than in producing new ones”*

# The Agency for Healthcare Research and Quality

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*“...the ultimate goal of AHRQ is research translation – that is, making sure that findings from AHRQ research are widely disseminated and ready to be used in everyday health care decision-making”*

<http://www.ahrq.gov/research>

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And, for the first time in years,  
a new model recognizing the  
value of high performing  
primary care has been proposed



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**Your Medical Home**

# Plan Do Study Act

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- Practice transformation demands measurement
- Proven practices must be disseminated
- New collaborations are needed

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- Initiate the research process at the start of practice transformation
    - An over-arching IRB covering Medical Home development
    - Separate IRB's for each sub-project

# The Scientist and the Clinician



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We need practice transformers to  
attend NAPCRG

...and researchers to attend the  
Conference on Practice  
Improvement



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Practice Based Research Networks  
(PBRN's) are one of the vital tools to  
answering the full spectrum of  
translational research questions

- They require more federal support

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Every practice should  
consider joining a PBRN

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# **Service Research**

- An emerging opportunity

# What Is Service Research?

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Service-Research is a method of research based on collaborative efforts with communities, community service agencies, and government to design, implement, and evaluate programs addressing an important need

## Service-Research Leads With Service

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Much service research focuses on how to deliver proven interventions to hard to reach populations

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Public health intervention and  
clinical practice improvement  
constitute new realms of research

# New Design and Analysis Methods are Needed

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- Evaluations usually require, at a minimum, multi-method approaches, both qualitative and quantitative
- Design methods, such as sequential cluster analysis, (comparing different clusters to each other as opposed to individuals), are often required.
- Professional researchers are a must

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Service-Research relies on a diverse set of federal and non-federal funders

- Not-for-profit community service agencies
- Foundations
- AHRQ
- CDC



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These grants and contracts almost universally rely on collaborations

- The Academic Health Center may or may not be permitted to be the applicant

# The CDC Mission Statement

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*“CDC’s mission is to collaborate to create the expertise, information, and tools that people and communities need to protect their health – through health promotion, prevention of disease, injury and disability, and preparedness for new health threats”*

[www.cdc.gov](http://www.cdc.gov)

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*“State Supplemental Funding for  
Healthy Communities, Tobacco  
Control, Diabetes Prevention and  
Control, and Behavioral Risk Factor  
Surveillance System”*

Eligible Applicants: States

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*“HIV Prevention Projects for  
Community Agencies”*

Eligible Applicants: Non-profit  
organizations (other than institutions  
of higher education)

# Barriers

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- Funding looks different than the NIH RO<sub>1</sub> mechanism
  - Dollars may be less
  - Spread over more collaborators
  - Indirects are often less attractive

# Barriers

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- Thus, AHC's need different structures to compete for, attract and afford Service-Research grants and contracts
  - Interdisciplinary centers that are prepared to implement programs, provide service and evaluate projects in multiple areas

# Myths

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“Service-Research isn’t research”

“It’s not intellectually challenging”

“It doesn’t generate new knowledge”

# Challenges

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Sustainability — A challenge for most public health programs

Dissemination — Hard to find the business model



# Service-Research – Business Model

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Often requires flexibility to conduct projects in a variety of areas

Funding per project is often low

Indirects are often low

Thus, funding from multiple projects is often necessary

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Service-Research without careful  
evaluation leading to publication  
.....is just service

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## Service-Research REQUIRES teams

- Make sure that professional researchers are a part of the team

# The New Research Team

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physical therapists

public health scientists

behavioral scientists

legal experts

the public

basic researchers

anthropologists

nurses

epidemiologists

occupational therapists

community leaders

biostatisticians

patients

clinicians

social marketers

...and many more

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There is not enough NIH & CIHR  
money to fund all important  
research

Service-Research offers an important  
opportunity to enhance our research  
capacity

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## **Receiving your marching orders:**

What role will each of us need to play in the research revolution?

**Health care reform and health  
care research reform are  
inexorably linked**



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Finding someone to pay for  
diffusion into multiple practices  
outside of a research context has  
proven very difficult



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The lack of trust that primary care and community-based interventions can be sustained has sapped enthusiasm for primary care and public health research



First....  
advocate for  
health reform



Second...  
accept the challenge





**Senior,  
experienced  
researchers are  
our greatest asset  
in the research  
revolution**

# To Senior Researchers

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- The mantle of responsibility is heavy:
  - Stay funded
  - Publish
  - Mentor junior investigators
  - Advocate for primary care and public health research support
  - Find sustaining financial models





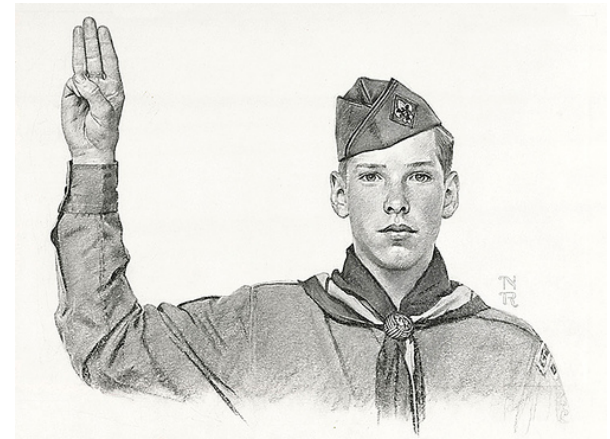
Junior  
investigators  
are our  
greatest hope

# To Junior Investigators

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- Improving health is what matters
  - Research without publications and presentation isn't research  
.....and will not attract funding

# Be Prepared!



- A Family Medicine residency does not provide the skills you need to be a career researcher
- A research fellowship must be focused and long enough
- Masters or PhD is helpful, if not vital
- Mentored research awards are an important option



# Be Relentless!

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Successful researchers have a need to know, a need to bring about change... hang in there – stay the course add a long straight road??)

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Department Chairs must be the  
Chiefs of Staff in the research  
revolution

# To Department Chairs and Academic Leaders

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Now is the moment to move  
research towards the top of our  
Departments' agendas

# The Courtship of Mentors

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Find them, engage them.....

heck, marry  
them if you have  
to...



Research mentors who care about  
populations are in every department, in  
almost every school

## Three of our Key Senior Mentors Are:

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- A behavioral psychologist in the department of Oncology
- An occupational therapist in the Jefferson School of Health Professions
- A pediatric-adult nephrologist in the Division of Nephrology

## And Chairs.....

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“No matter how little you think you know about medical home, practice transformation, disparity reduction, and community engagement, you probably know more than anyone else”

-Tamsen Basford, University of Arizona

Become the go-to person in your AHC

Have the courage to use  
department surplus to  
invest in research...and,  
that's right, we need to  
figure out how to  
generate that surplus



# Levels of Engagement With AHC

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Advocate for AHC's to:

1. Define their mission to care for a population
2. Embrace a population health research agenda
  - We need to make the business case for research transformation
3. Realign incentives to support collaboration and research teams



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We must find a way to celebrate,  
reward, promote and even grant  
tenure to the career co-  
investigator

# The Chair's Prime Directive



A culture of  
scholarship



# A culture of investigation



A research revolution has begun

It will continue with or without us



# Medical Home is the bridge between...



**Public Health**

**Community  
Engagement**

**Clinical Care  
Delivery**



North American

PRIMARY CARE  
RESEARCH GROUP

*“We need a new model in healthcare – one that is much more efficient and effective and is constantly evolving based on evidence that is produced by the system itself. We need continuous introduction of incremental and innovative treatments, powered by data concerning the delivery systems, insurance coverage methods, effectiveness, and benefits of care.”*

R. A. Rudick, D. M. Cosgrove, A radical proposal: Integrate clinical investigation into the U.S. health care system. *Sci. Transl. Med.* **1**, 4cm4 (2009).



The health of the public cannot  
improve...will not improve  
without broad changes in public  
policy and a spirit of social  
altruism

But we will also fail to realize our potential to improve public health without a powerful link to clinical care delivery...to screening, chronic disease management, to effective therapy for tobacco use, over-eating, and sedentary living, and to the integration, at last, of behavioral, community, and physical well-being within a re-designed medical home built on a foundation of knowledge, evidence, and passion.

## Train Narrative

“...that the medical research train is moving towards its destination at 20 miles per hour sounds great, unless you know that trains are capable of much greater speeds!”

## Disparity Montage Narrative

We cannot solve North America's major health care challenges within the walls of an office. NIH and CIHR cannot fund all of the work that must be done



