

# New Data is Available for Local Health Improvement Efforts - SHAPE 2006 Adult Survey Preview

**Presented to:**  
**Hennepin County**  
**Health Advisory Committee**  
**May 16, 2008**

By SHAPE 2006 Project Team



# Outline

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- Local public health dept. & local health data
- SHAPE 2006- new local data for Hennepin County
- What is the overall health status of Hennepin County adults ? – a SHAPE 2006 adult survey data preview
- SHAPE data use example:  
No leisure time physical activity

# Local Public Health Department and Local Health Data



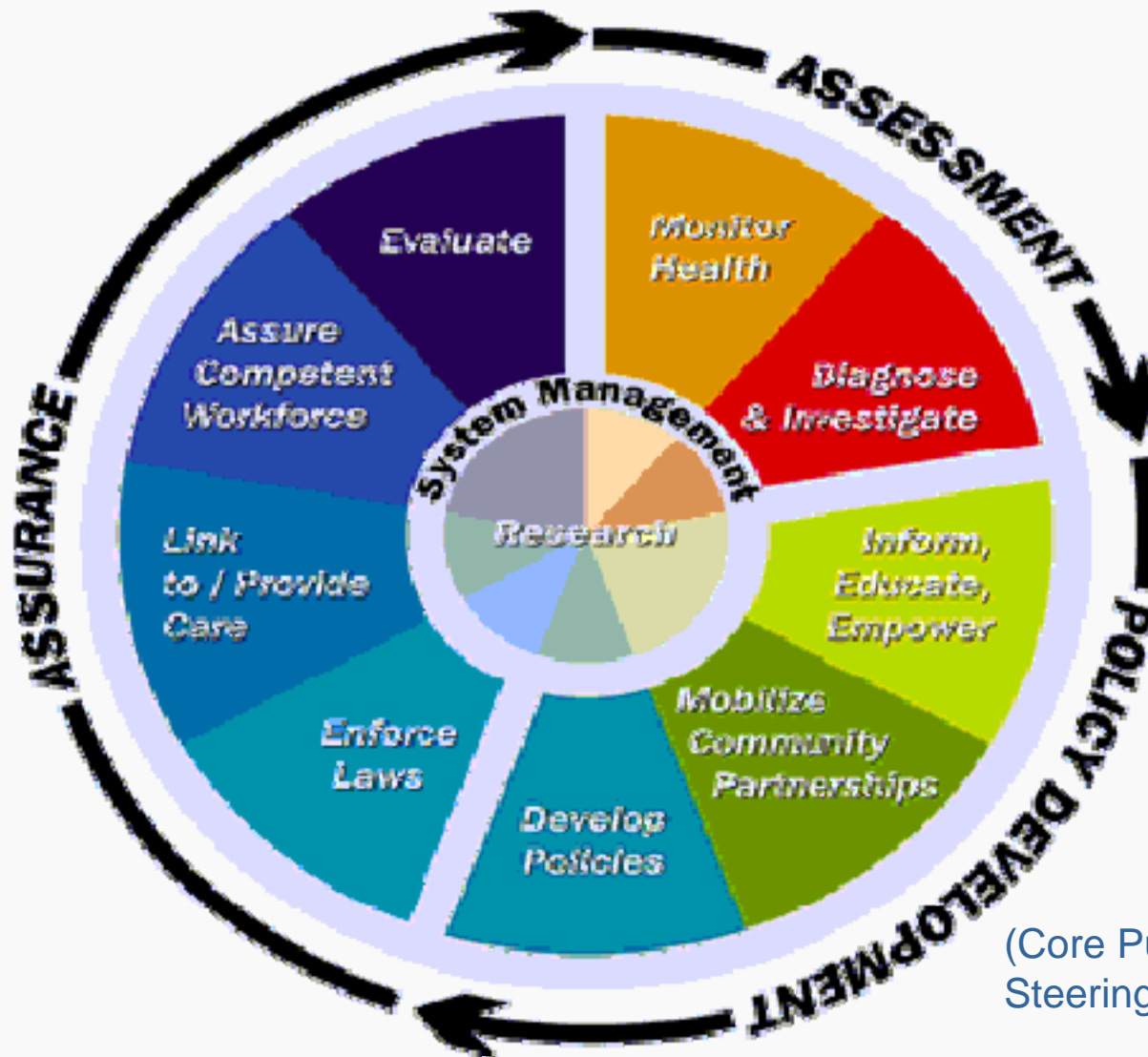
## Core public health functions

Local Health departments, fulfill the public health responsibilities for population-based health through executing three core functions:

- **Assessment,**
- **Policy development,**
- **Assurance.**

(The Future of Public Health, Institute of Medicine, 1986)

## Core public health functions & essential public health services



(Core Public Health Function Steering Committee, 1994)

# Assessment

## (community health assessment)

To regularly and systematically collect, assemble, analyze, and make available information on the health of **community**\*, including statistics on health status, community health needs, and epidemiological and other studies of health problems.

***\* Focus on population as a whole***

# SHAPE 2006

- New Local Data for Hennepin County



# What is SHAPE ?

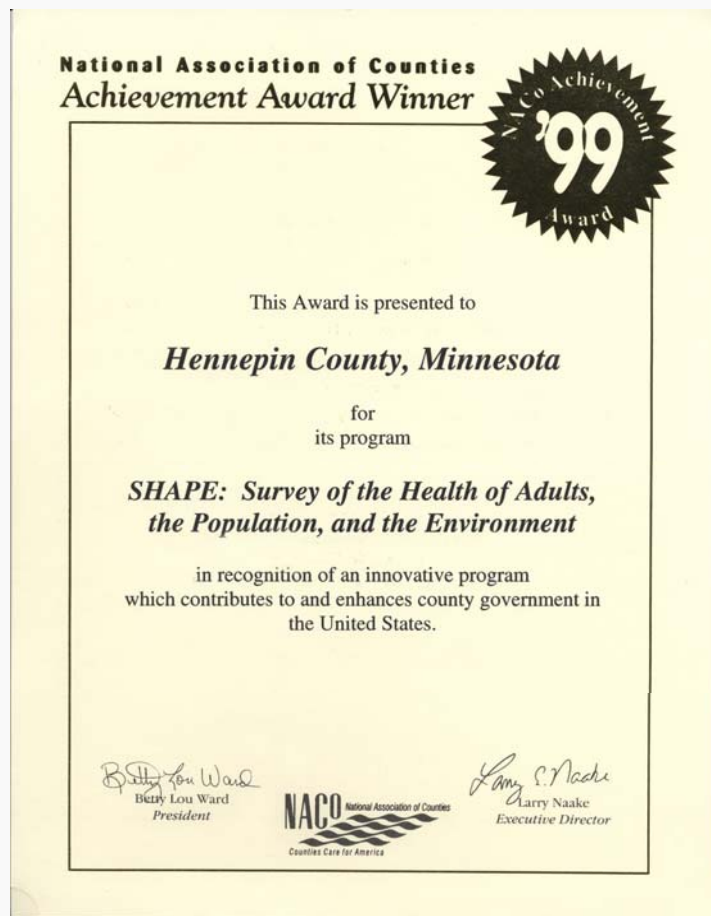
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## Survey of the Health of All the Population & the Environment

- A population-based assessment of the health of residents of Hennepin County, and the factors that affect their health.**
  
- Three waves of the *Adult Survey*:**  
*SHAPE 1998, SHAPE 2002, SHAPE 2006*
  
- New component added in 2006:**  
*SHAPE 2006– Child Survey*



# SHAPE is nationally recognized



“Comprehensive county-level health assessments are uncommon. Hennepin County, Minnesota, is one of four counties in the United States identified by CDC for their exemplary reports on local health-related quality of life (HRQOL) data.”

- CDC Chronic Disease Notes & Reports, 2004

## **SHAPE 2006- what's new?**

- New partners.
- New sampling frame.
- New geography.
- New data collection methods.
- Updated adult questionnaire.
- New child questionnaire.

# New partners

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**Residents,  
community  
organizations  
and groups**

**Hennepin County  
Human Services and  
Public Health Dept.**

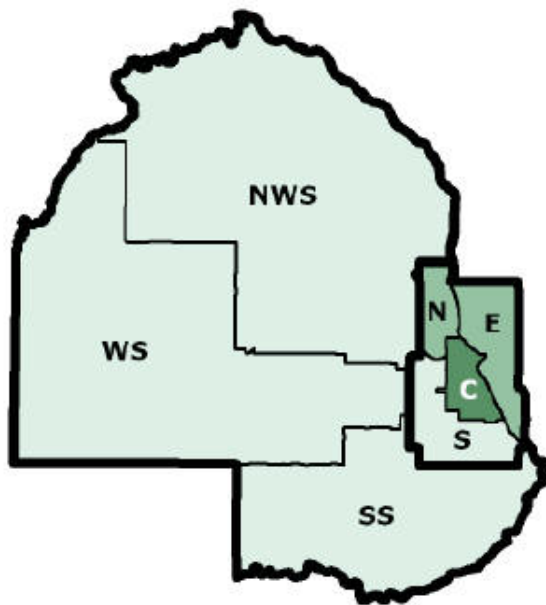


**University of Minnesota  
School of Public Health**

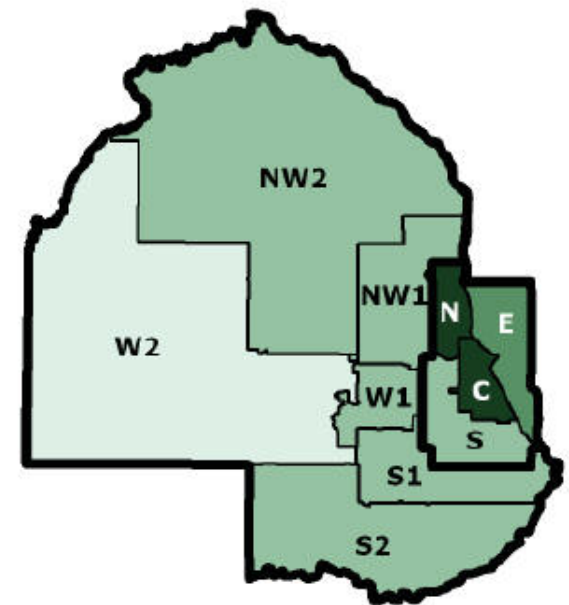
**Additional partners include: Minnesota Department of Health; Project consultants; other community-based organizations; and topic-specific experts.**

# New geography: SHAPE 2006 reporting areas

Children



Adults



## Geographic Reporting Areas

### Minneapolis

- N Near-North, Camden
- E Northeast, University, Longfellow, City of St. Anthony
- C Central, Phillips, Powderhorn
- S Calhoun-Isles, Southwest, Nokomis

### Suburban Hennepin County

- NWS Northwest Suburbs
- WS West Suburbs
- SS South Suburbs
- NW1 Northwest Inner Ring Suburbs
- W1 West Inner Ring Suburbs
- S1 South Inner Ring Suburbs
- NW2 Northwest Outer Ring Suburbs
- W2 West Outer Ring Suburbs
- S2 South Outer Ring Suburbs

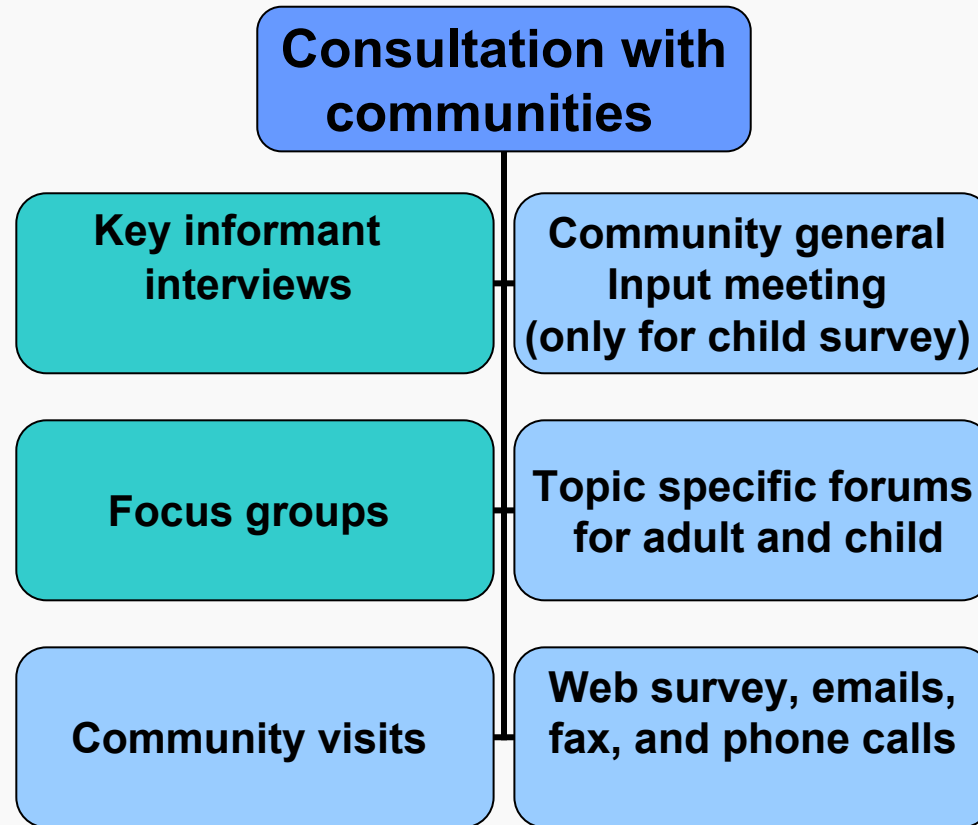
## SHAPE 2006 – Adult Survey also provides data for racial and ethnic groups

- **Black/African American**
  - US born
  - African-born
- **Asian/Pacific Islander**
  - Southeast Asian
- **Hispanic/Latino**
- **White**

# Updated adult questionnaire

<p><b><u>Health Status &amp; Health Related Quality Life</u></b></p> <p>Health Related Quality of Life Chronic Disease and Conditions Activity Limitations</p>	<p><b><u>Health Care Access/Utilization</u></b></p> <p>Health Insurance Status Access to Care Use Preventive Services Complementary and Alternative Medicine</p>
<p><b><u>Healthy Lifestyle and Behaviors</u></b></p> <p>Nutrition and Body Weight Physical Activity Smoking and Alcohol Use Safety</p>	<p><b><u>Social-Environmental Factors</u></b></p> <p>Community Support and connectedness Discrimination Economic Distress Demographics</p>

# SHAPE 2006 external consultation







# SHAPE 2006 Adult survey questionnaires

- Adult mail version –  
32 pages
- Adult phone version –  
30 minutes
- Language Translations
  - Hmong
  - Vietnamese
  - Somali
  - Spanish

A flyer for the SHAPE 2006 Survey. It features a central diamond-shaped collage of diverse people's faces. To the right of the collage, the text "SHAPE 2006 Survey" is displayed. Below the collage, it lists the study and conducting organizations: Hennepin County Human Services and Public Health Department and the U of MN School of Public Health. At the bottom, there are five bullet points in multiple languages providing contact information for completing the survey by phone.

**SHAPE  
2006  
Survey**

Study By:  Hennepin County  
Human Services and  
Public Health Department

Conducted By:  U of MN  
School of Public Health

- If you want to complete the survey on the phone, please call us at 612-624-9635.
- Si desea completar esta encuesta por teléfono, por favor llame al 612-624-0671.
- Yog koj tsis paub lus Aaskiv lossis kog tsis nkag siab, hu tus xov tooj 612-624-0670.
- Nếu bạn muốn làm cuộc trắc nghiệm qua phone, xin gọi 612-624-0388.
- Hadii add rabtid in add kajawaabtid Suaalaha kor ku xusan dhaman tood af Soomaali fadlan soo wac Telefon: 612-624-0610.



# Mobilizing community members to answer the survey

- Flyers
- Fact sheets
- Community and local media



The flyer is a vertical rectangular graphic with a blue border. At the top center is the SHAPE 2006 logo, consisting of three blue diamonds. Below the logo, the text "SHAPE 2006" is written in a sans-serif font. The main headline reads "You know about YOUR health better than anyone!" in a large, bold, sans-serif font, with "YOUR" in blue and the rest in white. Below this, there are three paragraphs of smaller text: "You may be getting a survey in the mail or a phone call to ask questions about your health.", "The questions are part of SHAPE 2006, Hennepin County's survey of adults and children.", and "Health professionals will use the information to improve health programs for you, your family, and your community." Below the text is a diamond-shaped collage of black and white photographs of diverse people of various ages and ethnicities. To the right of the collage, the text "Your health matters. Your answers matter." is written in a bold, sans-serif font. Below that, another bold text block says "When you are contacted, please take the time to help." At the bottom right, there is a logo for Hennepin County Human Services and Public Health Department, which includes a stylized blue 'H' with a white building icon inside. Below the logo, the text "Hennepin County Human Services and Public Health Department" is written. At the very bottom, the website address "www.HennepinPublicHealth.org/SHAPE" is provided.

SHAPE 2006

You know about  
**YOUR** health  
better than anyone!

You may be getting a survey in the mail or  
a phone call to ask questions about your health.

The questions are part of SHAPE 2006,  
Hennepin County's survey of adults and children.

Health professionals will use the information to improve  
health programs for you, your family, and your community.

**Your health matters.  
Your answers matter.**

**When you  
are contacted,  
please take  
the time to help.**

 Hennepin County  
Human Services and  
Public Health Department

[www.HennepinPublicHealth.org/SHAPE](http://www.HennepinPublicHealth.org/SHAPE)

# SHAPE 2006 Adult survey

## - respondents by race and ethnicity

<b>Race and ethnicity</b>	<b># of respondents</b>
<b>Asian/ Pacific Islander<sup>1</sup></b> Southeast Asian <sup>2</sup>	<b>437</b> (306)
<b>Black/ African American<sup>1</sup></b> U.S.-born Black African-born Black	<b>1090</b> (653) (412)
White <sup>1</sup>	5992
Hispanic or Latino <sup>3</sup>	<b>341</b>
<b>Multiple race or race unknown</b>	139
<b>Total</b>	<b>8082</b>

1 Racial categories reflects those primary racial designation of the respondents.

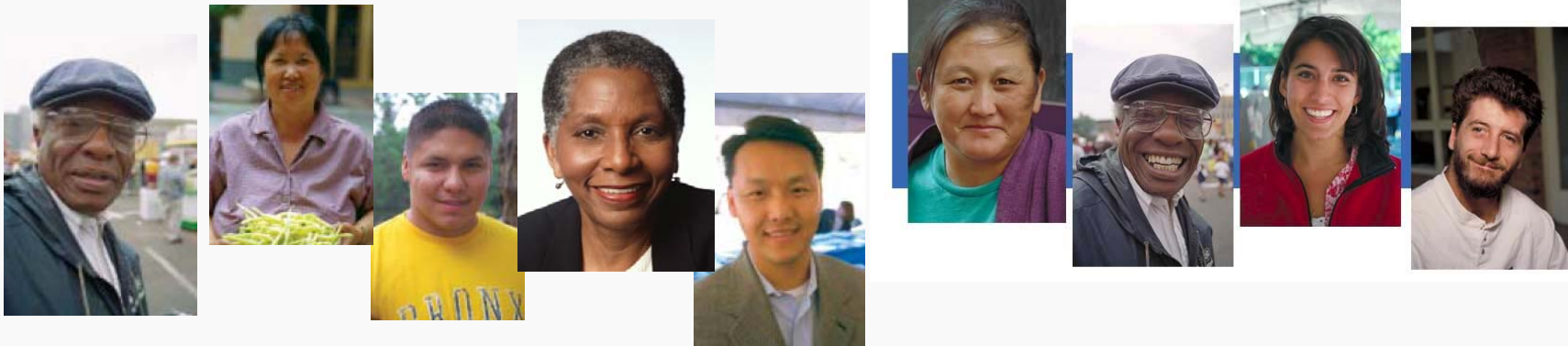
2 Southeast Asian includes Hmong, Laotian, Vietnamese, Cambodian, Thai, Malaysian, Filipino, Burmese, or from Singapore or Brunei.

3. The Hispanic/Latino ethnicity and race categories are mutually exclusive. A person of Hispanic/ Latino ethnicity who also identified with one or more races will be counted only in the Hispanic/Latino ethnicity group.

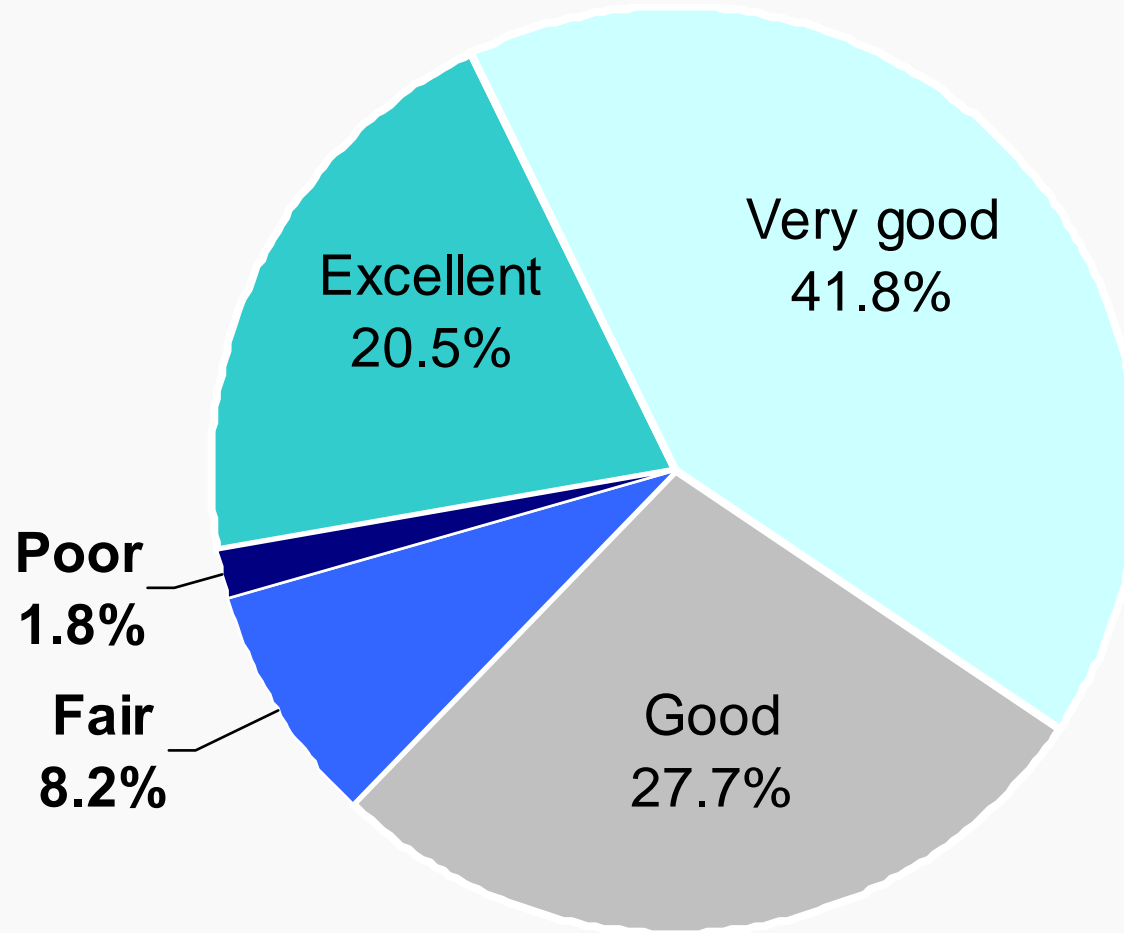
# What is the Health Status of Hennepin County adults - a SHAPE 2006 adult survey data preview



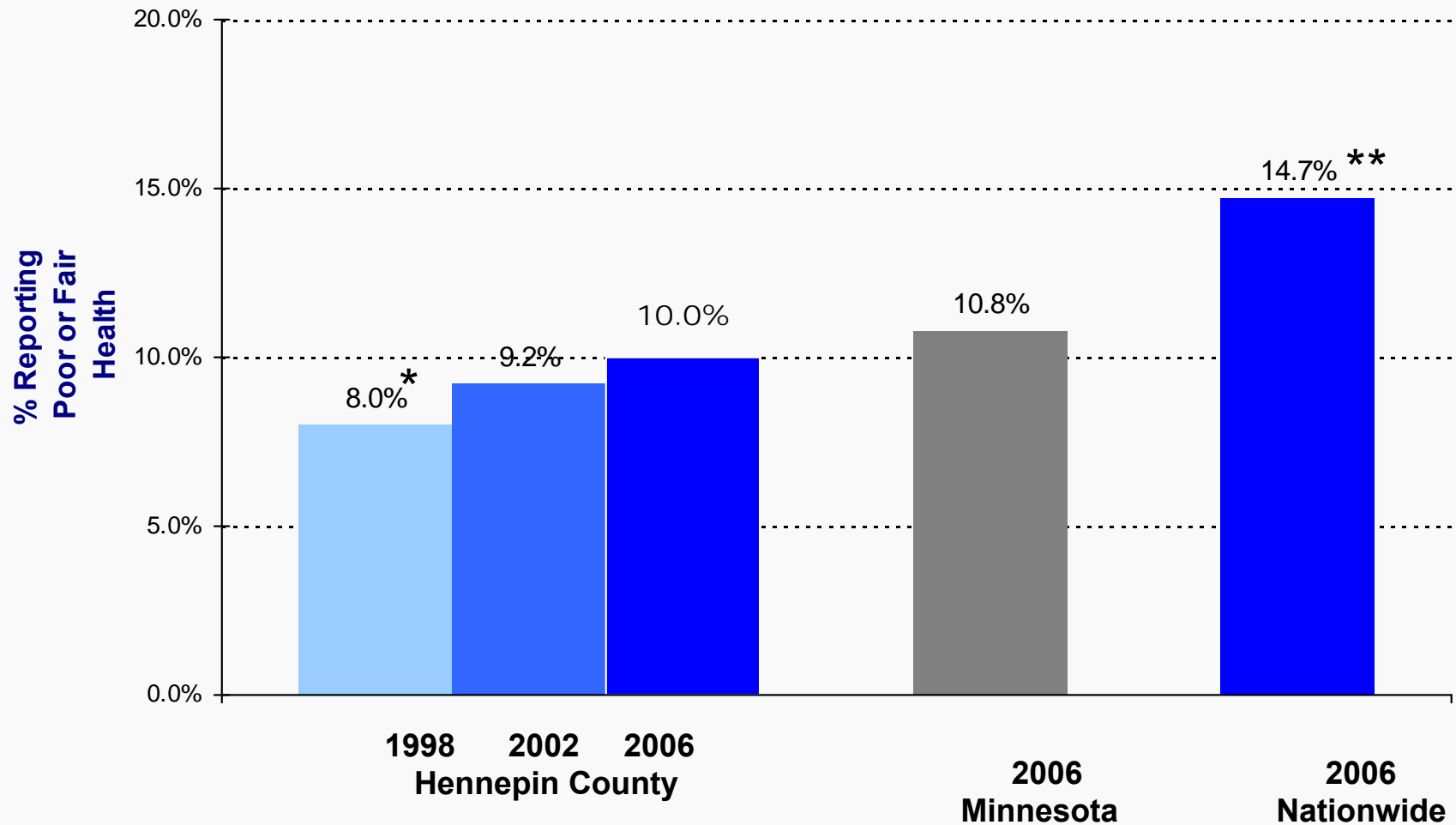
# Overall health status and health related quality of life



# Overall health



# Reporting poor or fair health: How do county adults compare

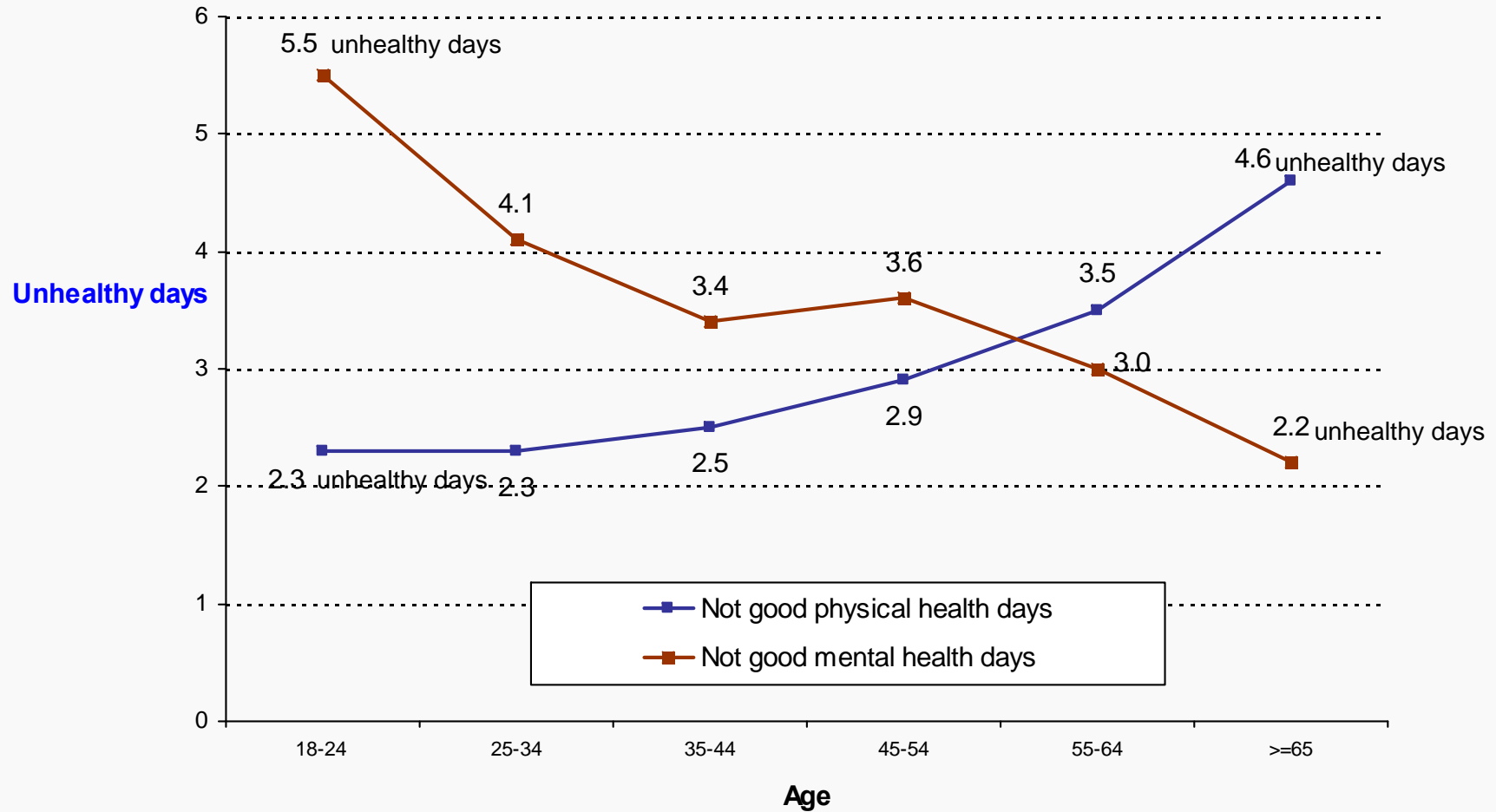


\* Difference in rates between 1998 and 2006 in Hennepin County is statistically significant.

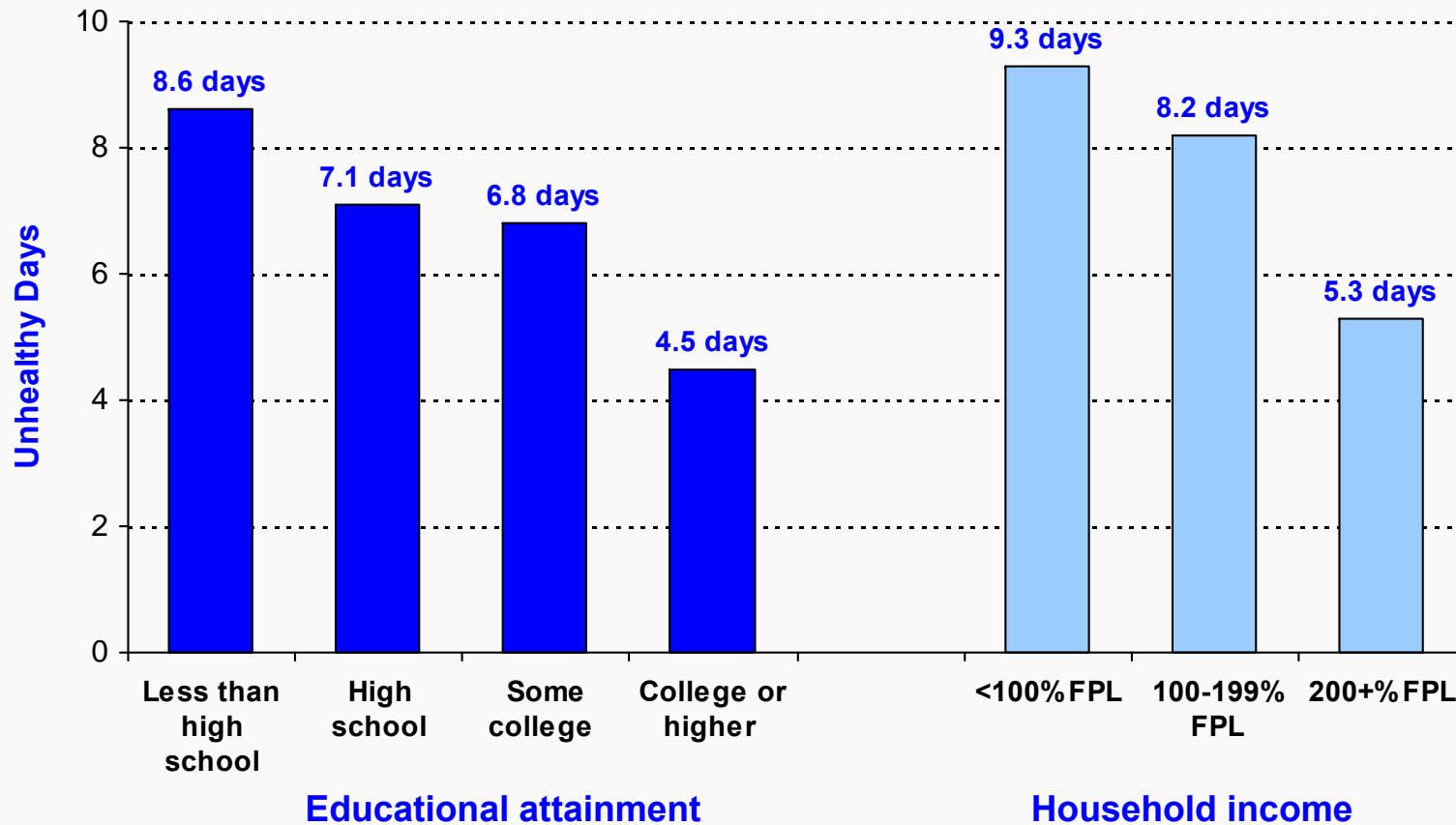
\*\* Difference in rates between Hennepin County and Nationwide in 2006 is statistically significant.

# Average number of unhealthy days in the past month

-not good physical health days and not good mental health days by age



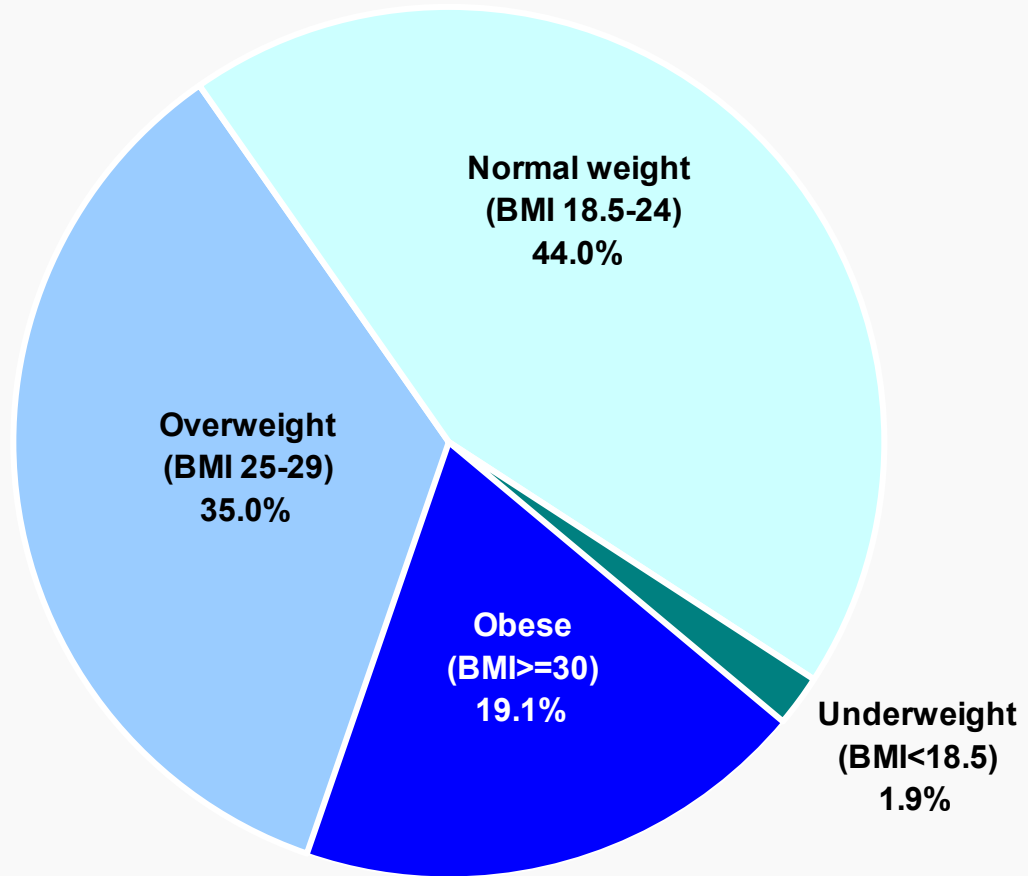
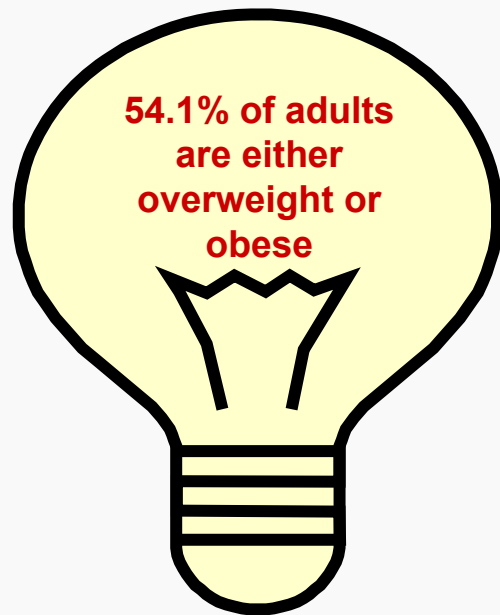
## Average number of unhealthy days in the past 30 days by education and household income<sup>1</sup>



1. Annual household income measured as a percentage of Federal Poverty Level (FPL).

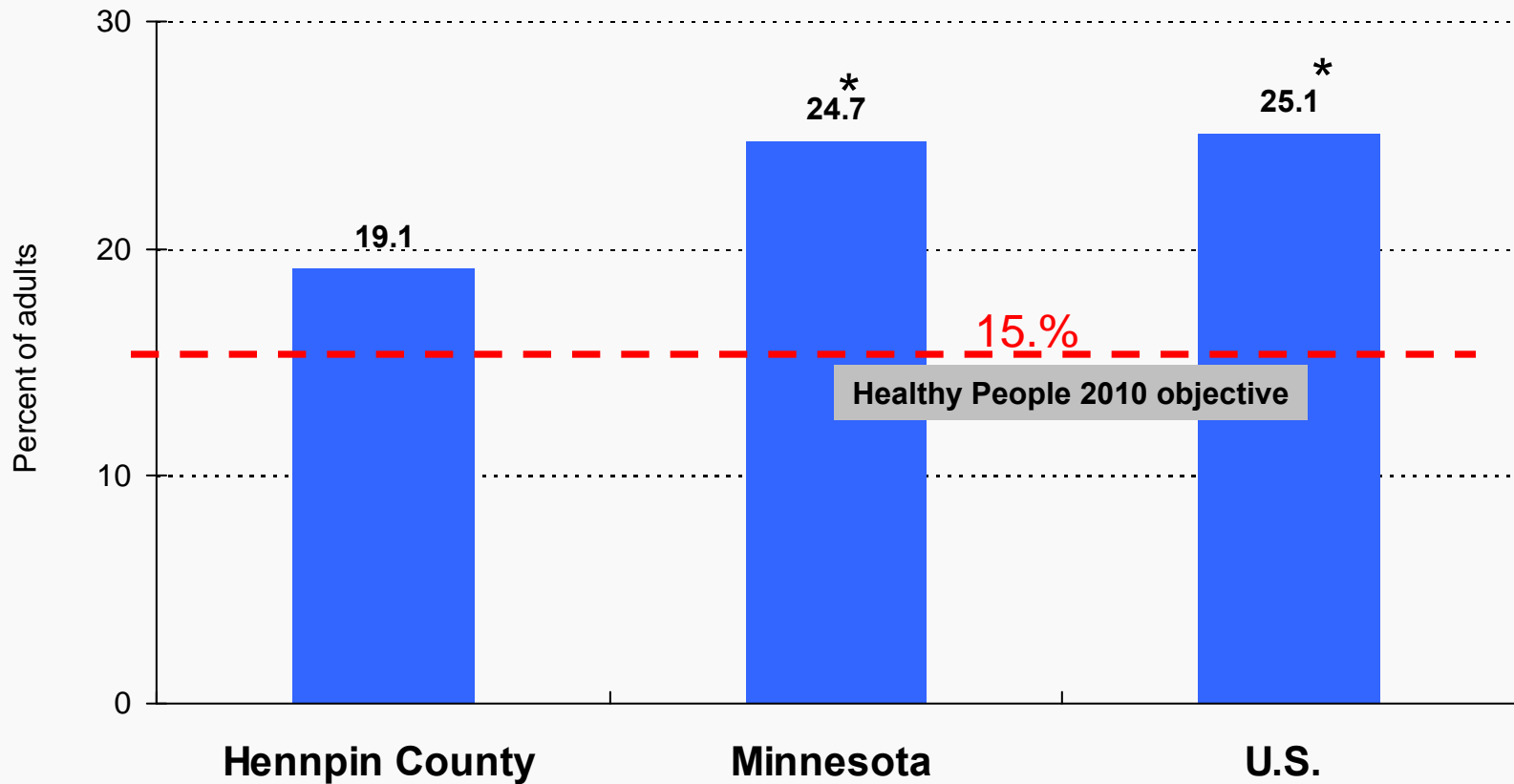


# Weight status of Hennepin County adults



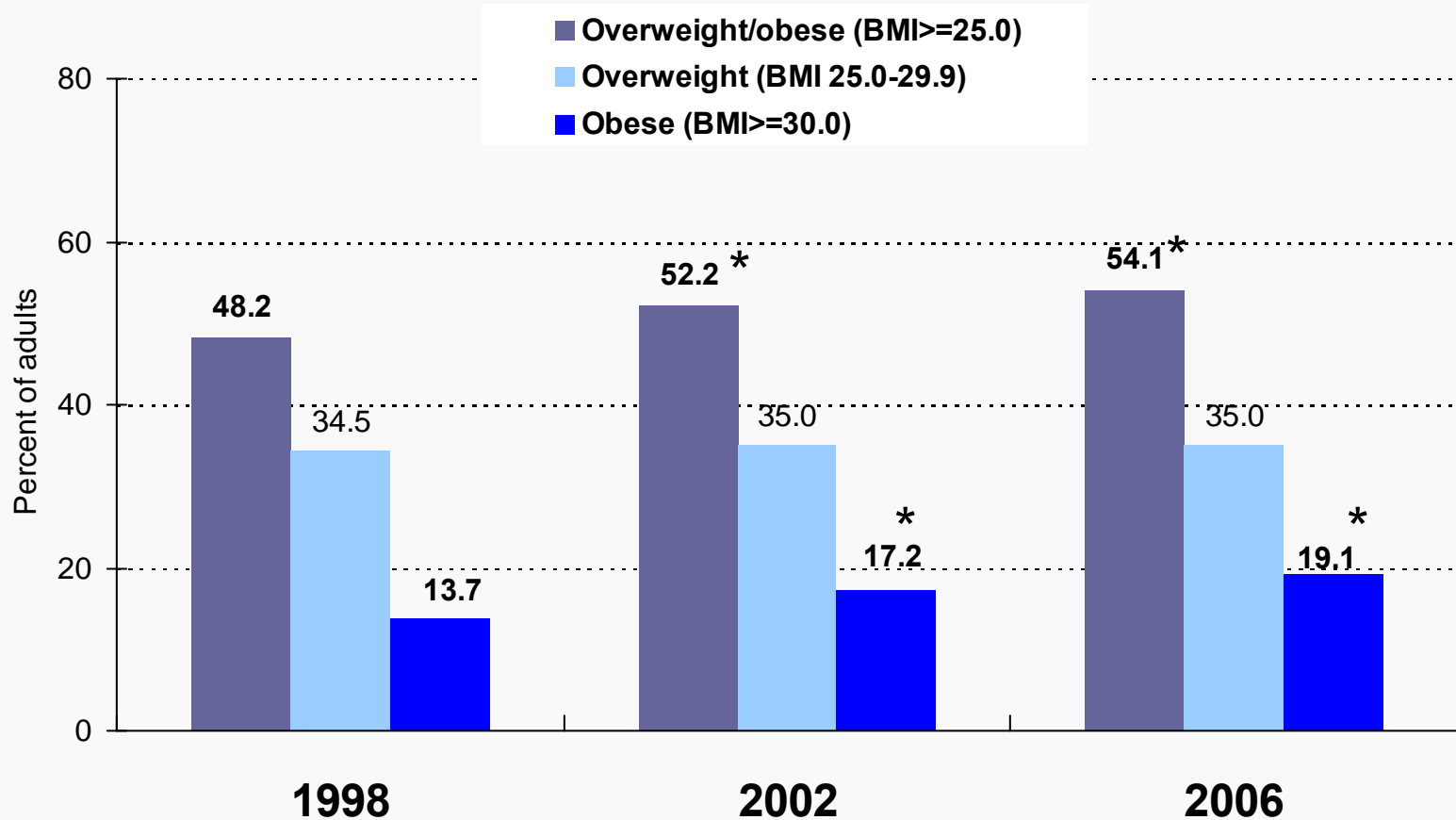


# Percentage of obesity among adults in Hennepin County, Minnesota and U.S. 2006



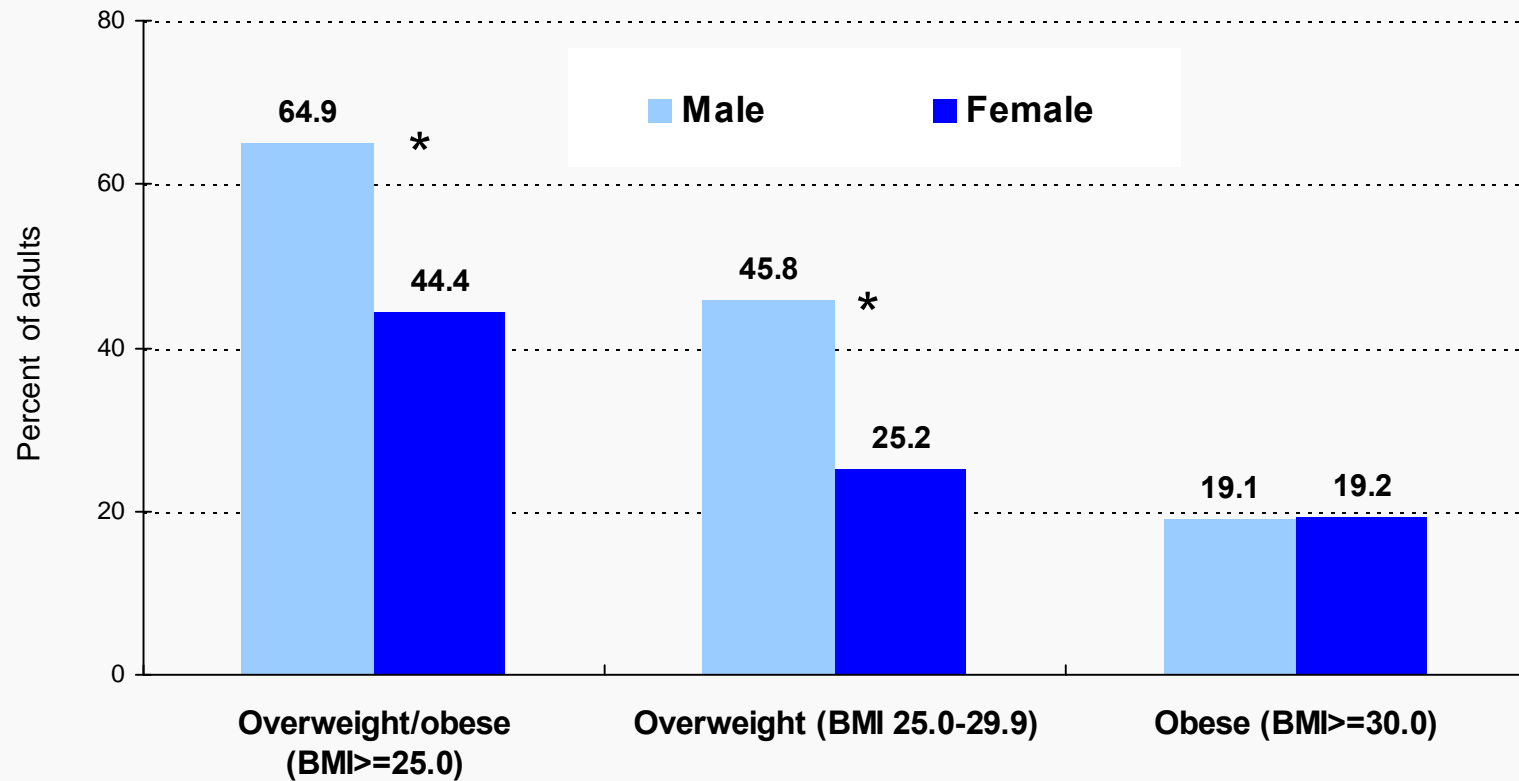
\* Difference in rates between this group and the rate for Hennepin County is statistically significant.  
Sources: SHAPE 2006, BRFSS 2006 (prevalence on-line, accessed 2-24-2008)

# Weight status of Hennepin County adults 1998, 2002 and 2006



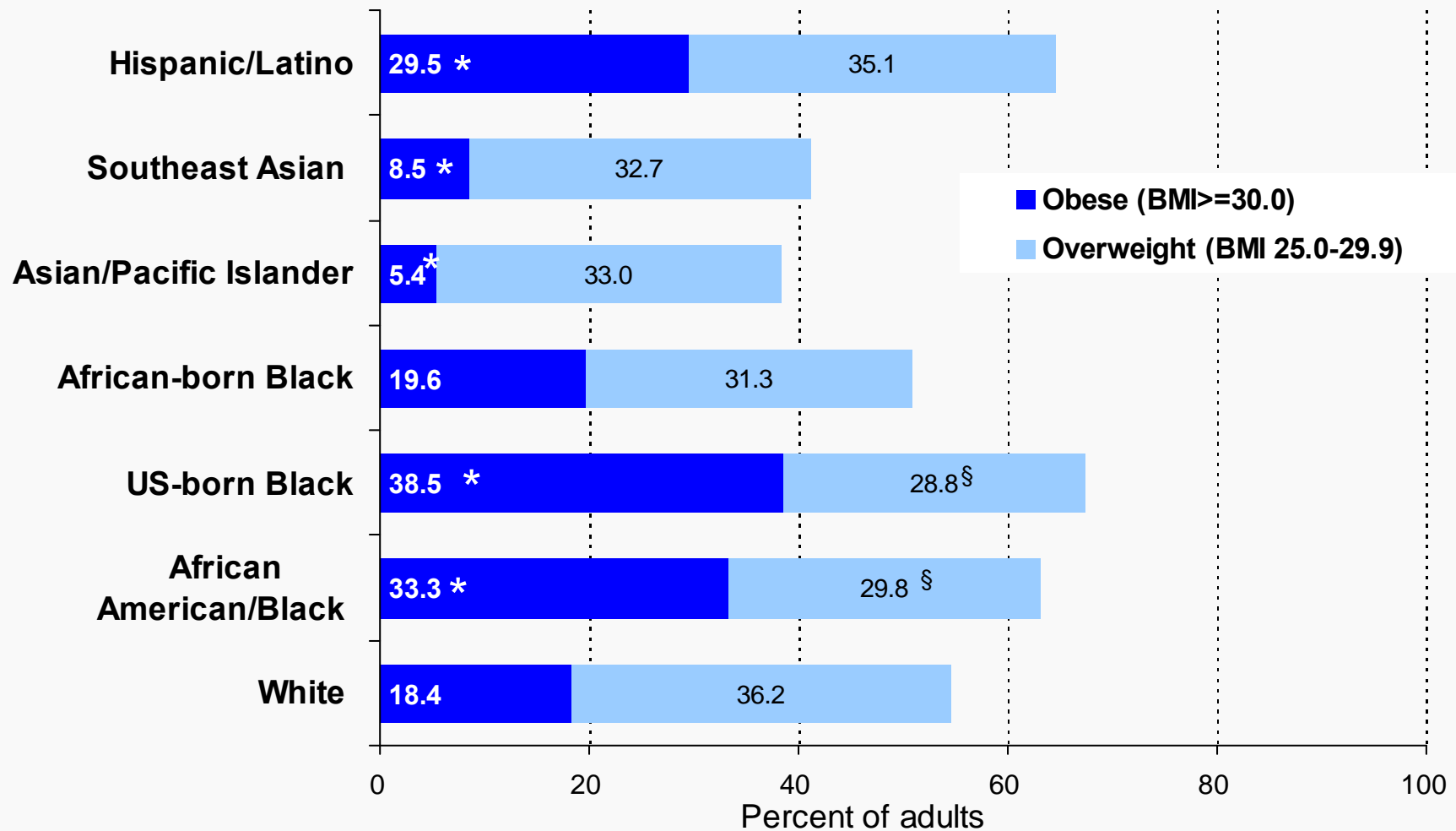
\* Difference in rates between this and rate for 1998 is statistically significant.  
Sources: SHAPE 1998, SHAPE 2002 & SHAPE 2006

# Weight status by gender



\* Difference in rates between gender is statistically significant.

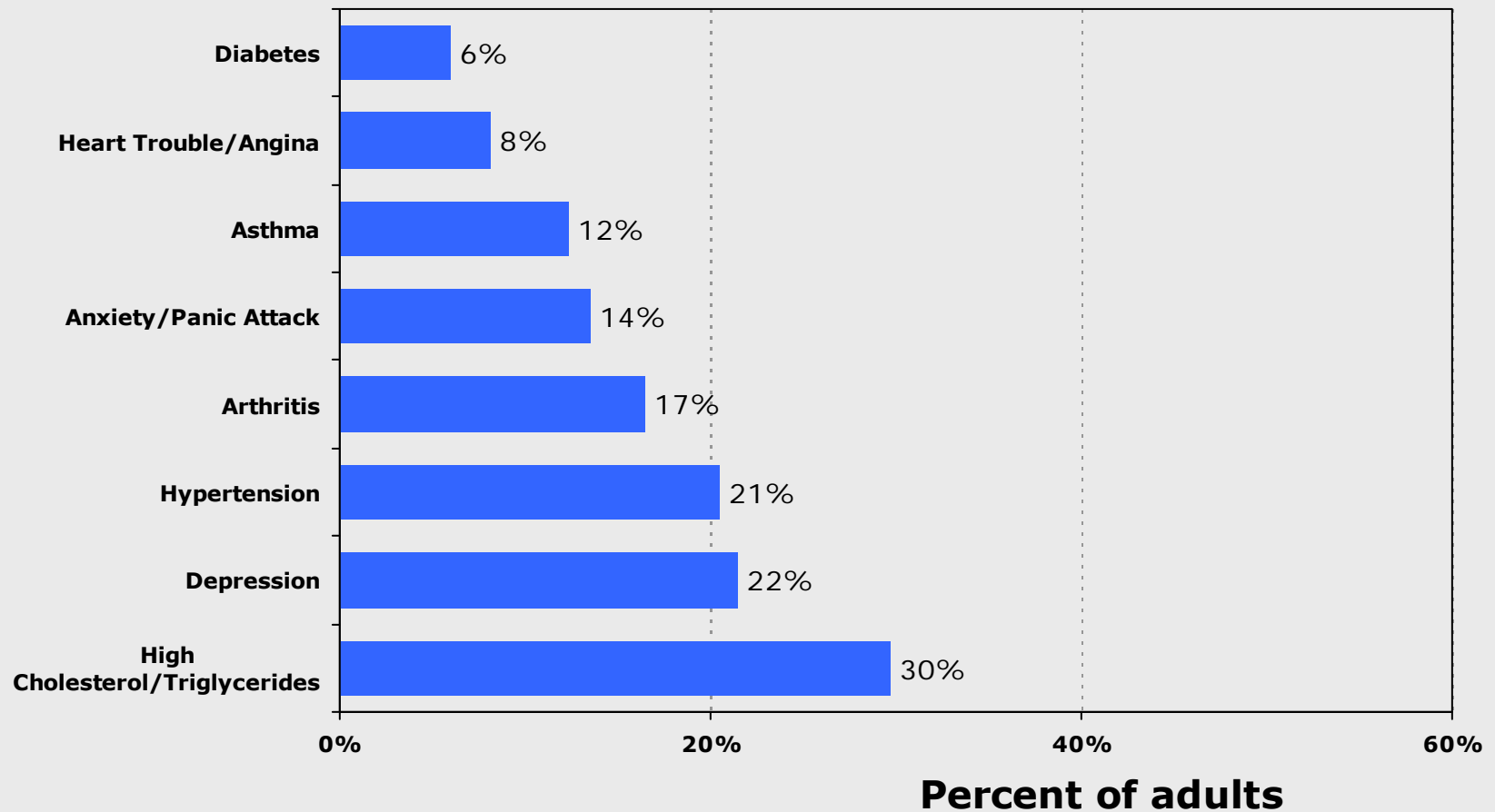
# Weight status by race and ethnicity



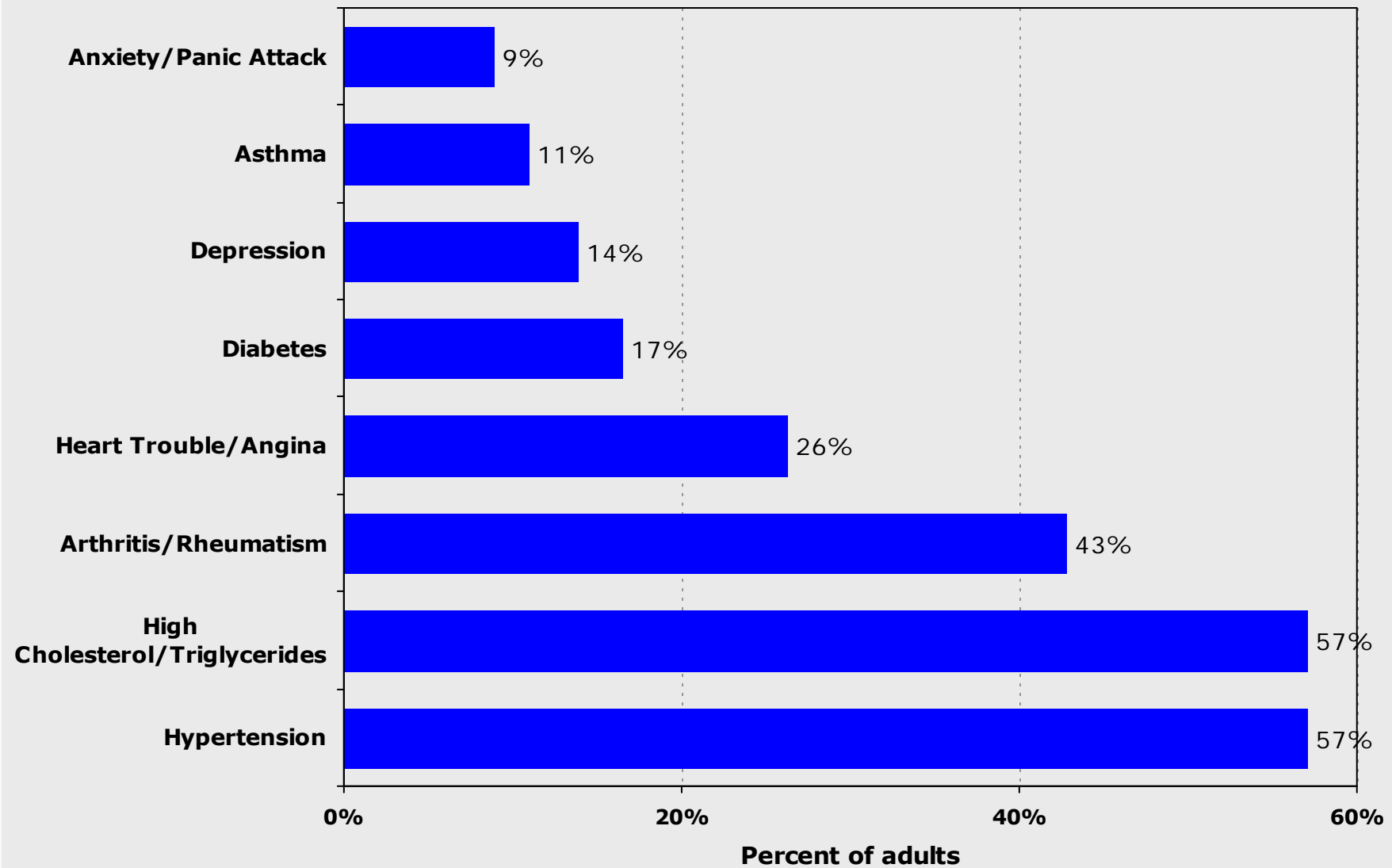
\* Difference in rates of obesity between this group and the White is statistically significant,

§ Difference in rates of overweight between this group and the White is statistically significant.

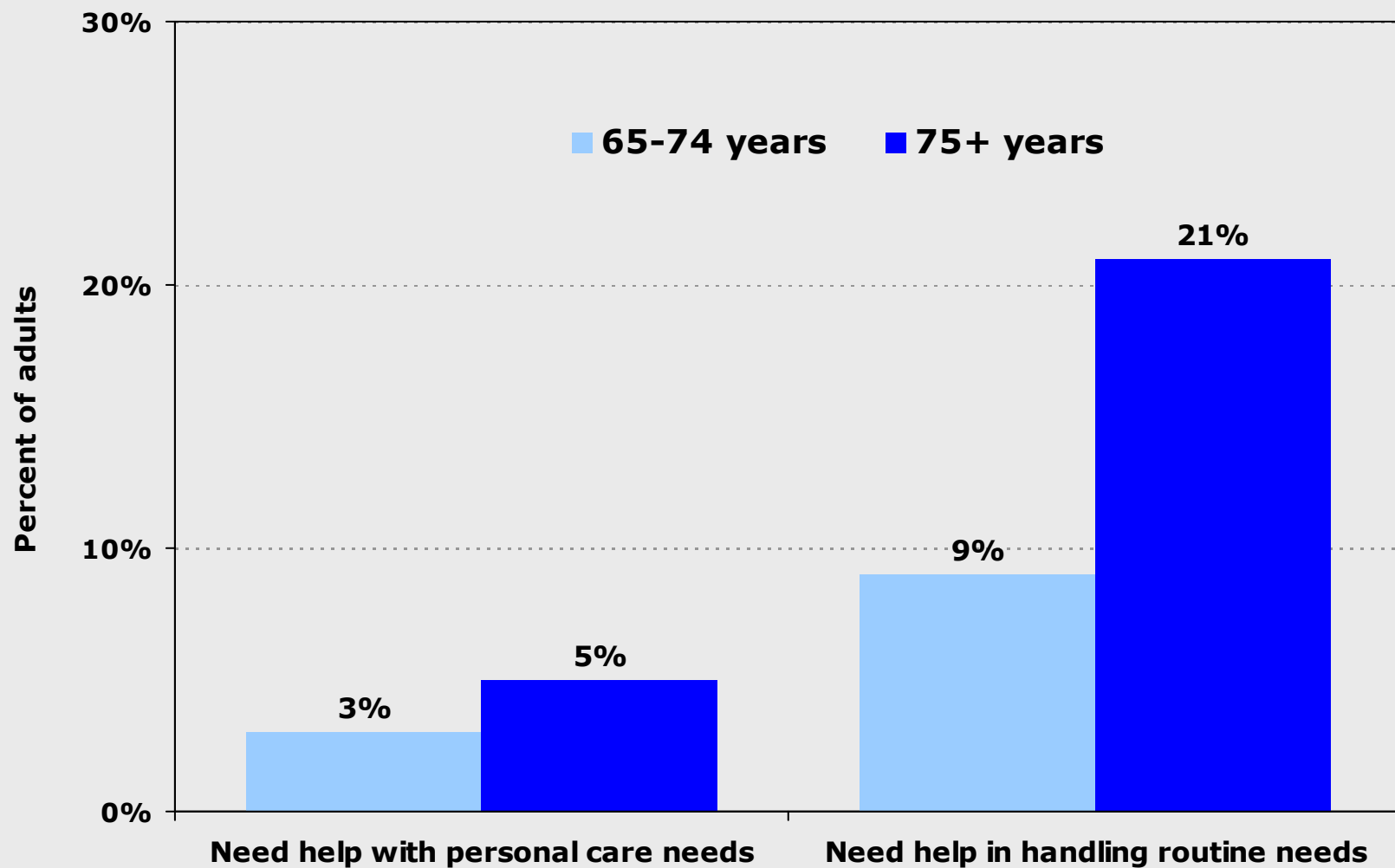
# Chronic conditions – all adults



## Chronic conditions age 65 + years

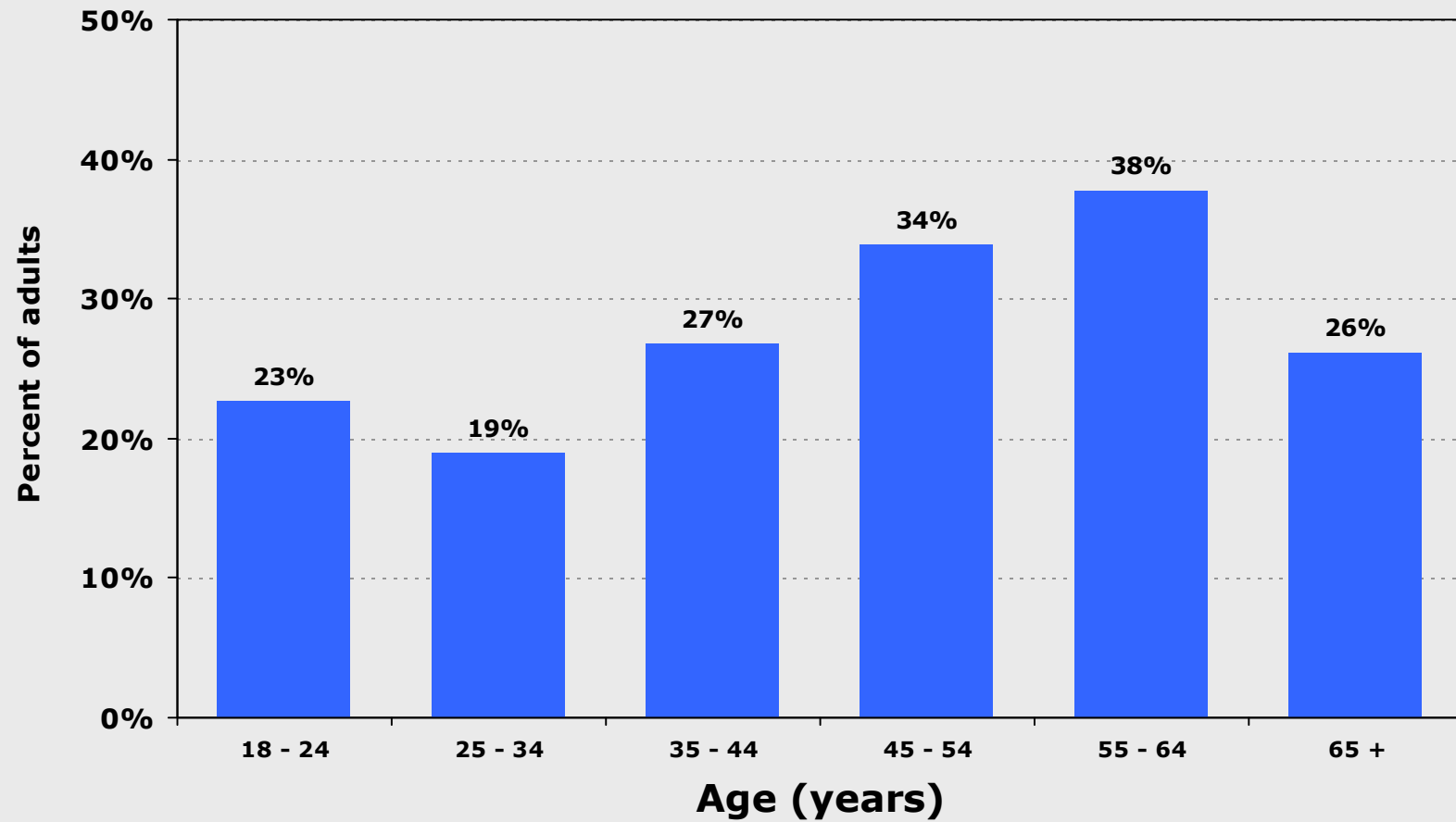


## Seniors needing help due to disability





# Being a caregiver



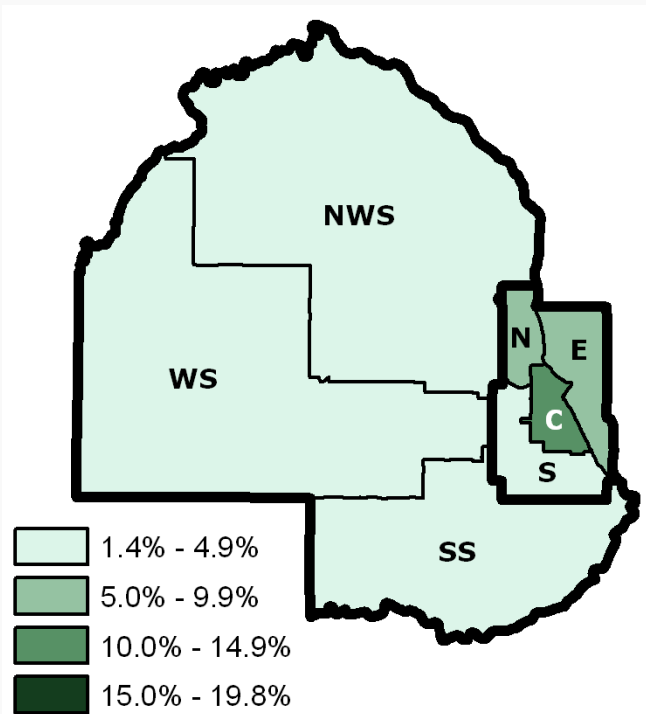
# Health care access and utilization



# Uninsured children & adults

<b>Race and ethnicity<sup>+</sup></b>	<b>Age 0 -17</b>	<b>Age 18-64</b>
White	2.5%	6.5%
Black/African American	5.3%*	15.6%*
US-born	6.5%	14.3%
Africa-born	3.7%	22.4%
Asian/Native Hawaiian/ other Pacific Islander	0.7%	9.4%
Southeast Asian	0.9%	13.6%*
Hispanic/Latino	29.2%*	39.8%*
<b>Total</b>	<b>4.0%</b>	<b>8.6%</b>

# Uninsured children & adults



**Age 0-17**

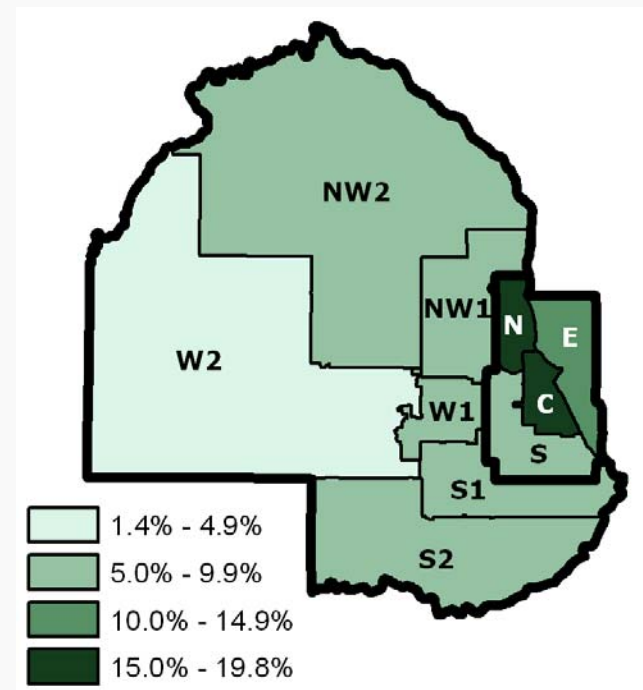
**Geographic areas**

**Minneapolis**  
 N Near-North, Camden  
 E Northeast. University, Longfellow  
 City of St. Anthony  
 C Central, Phillips, Powderhorn  
 S Calhoun-Isles, Southwest, Nokomis

**Suburban Hennepin County**  
 NWS Northwest Suburbs  
 WS West Suburbs  
 SS South Suburbs

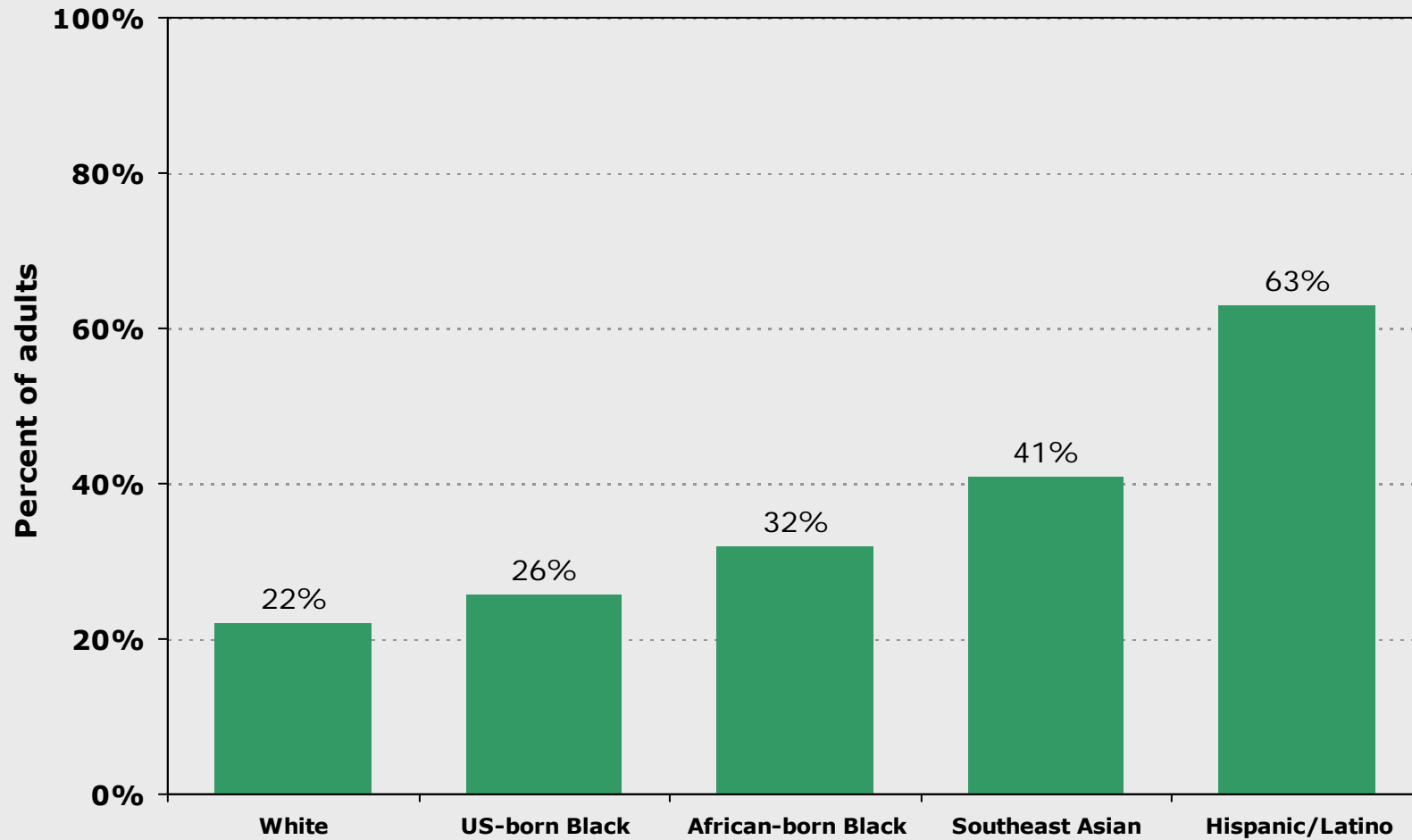
NW1 Northwest Inner Ring Suburbs  
 W1 West Inner Ring Suburbs  
 S1 South Inner Ring Suburbs

NW2 Northwest Outer Ring Suburbs  
 W2 West Outer Ring Suburbs  
 S2 South Outer Ring Suburbs

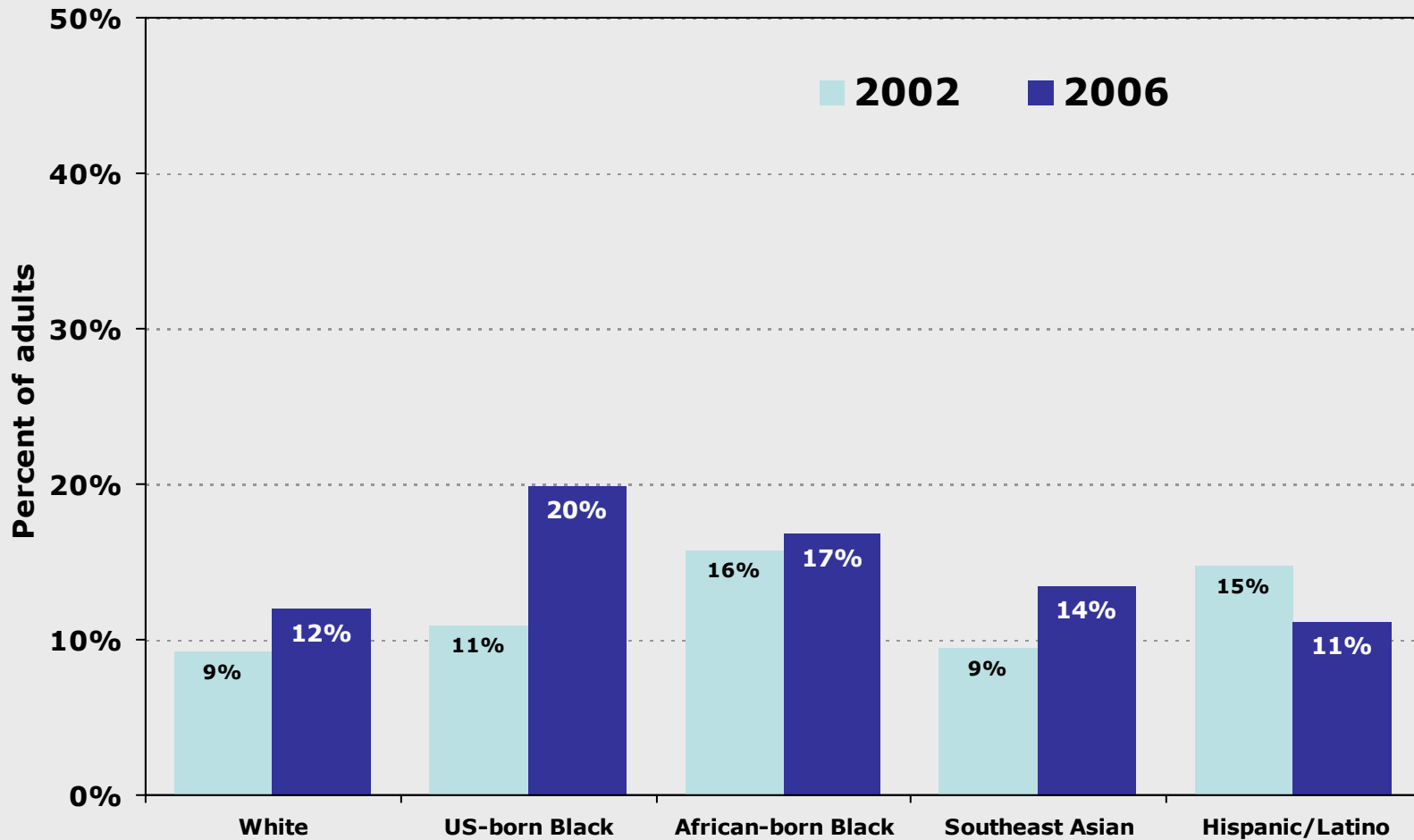


**Age 18-64**

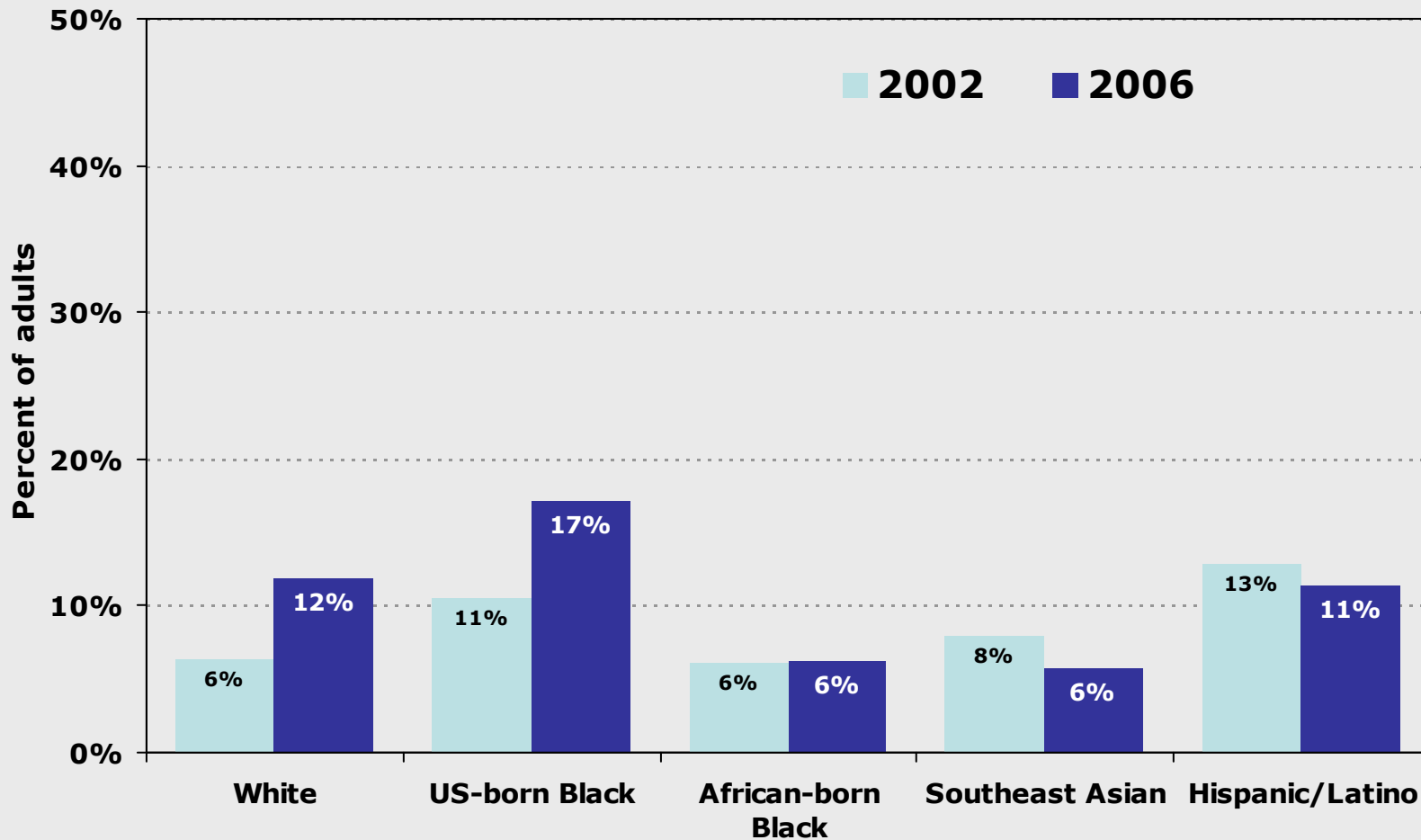
## Lack of usual source of care



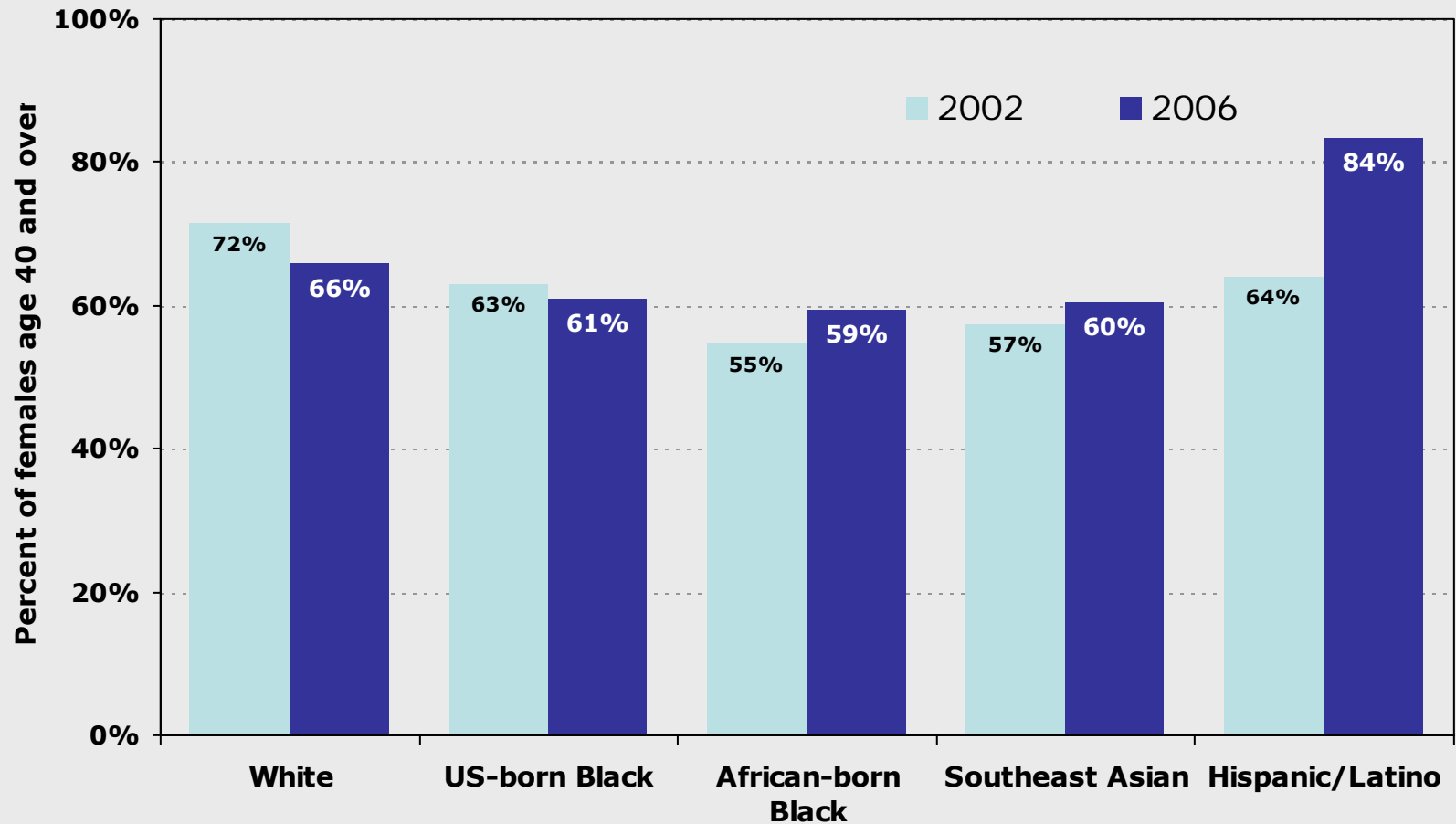
# Delayed or did not receive needed medical care



# Delayed or did not receive needed mental health care

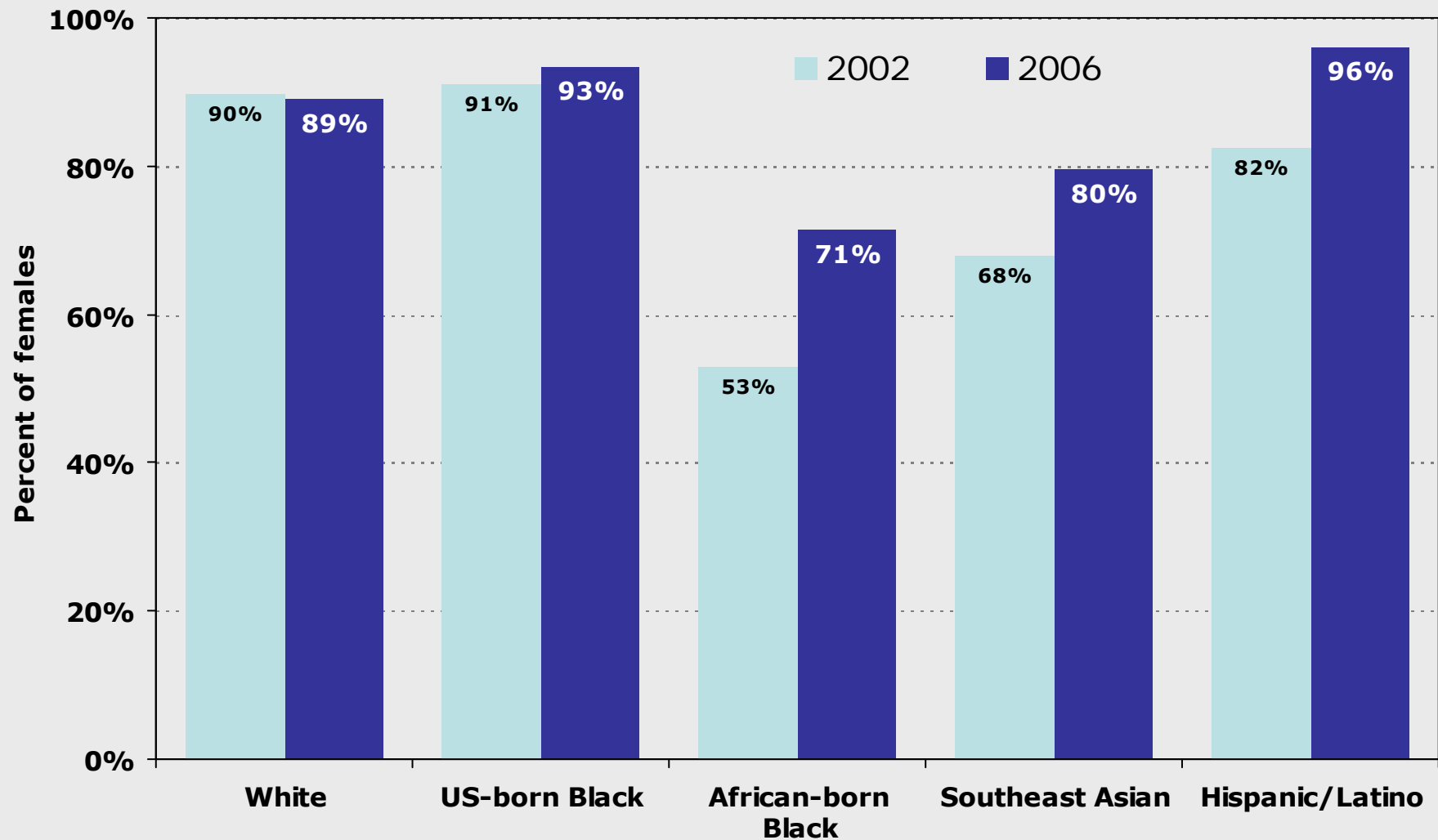


# Mammogram in past year

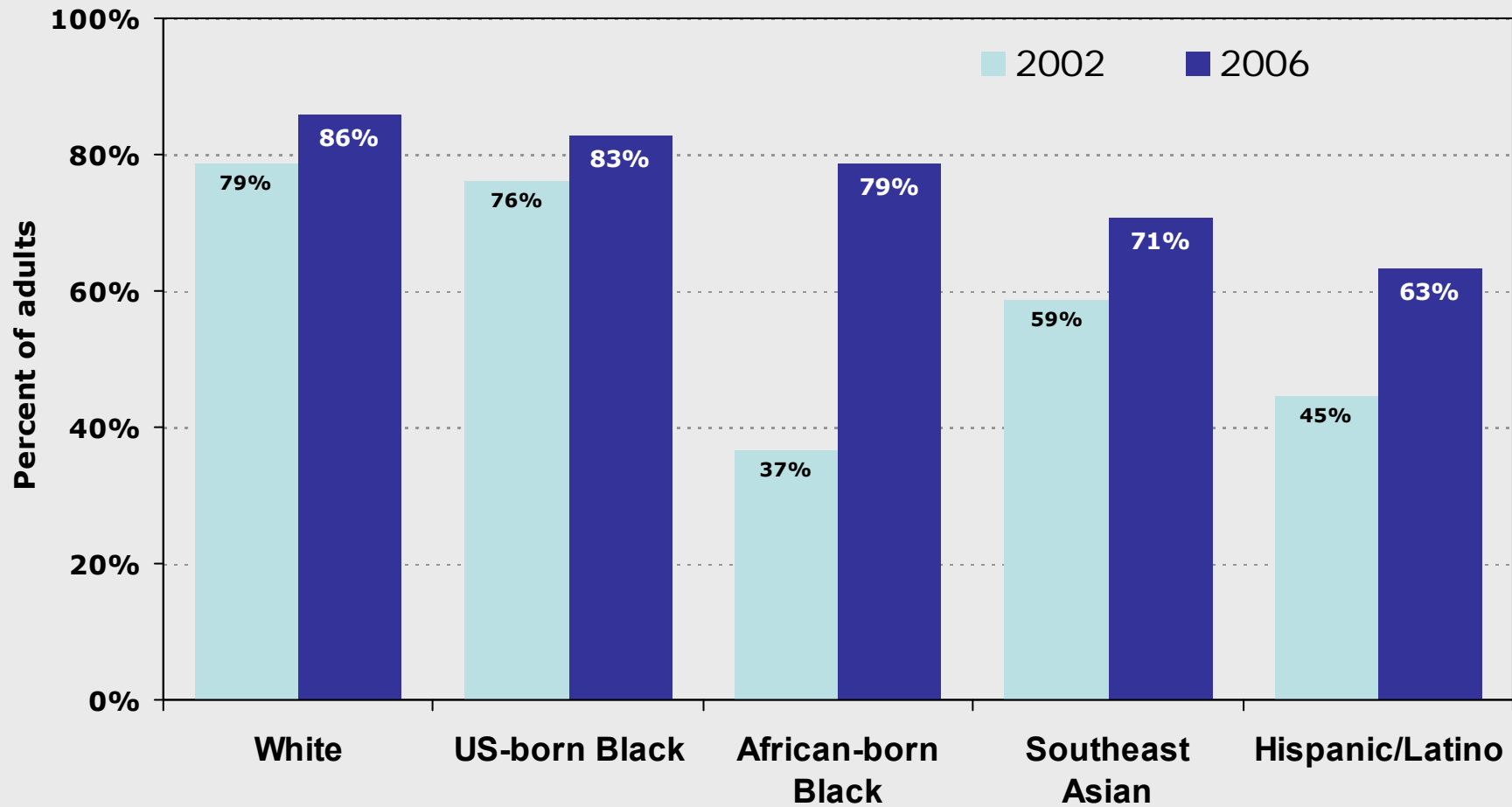




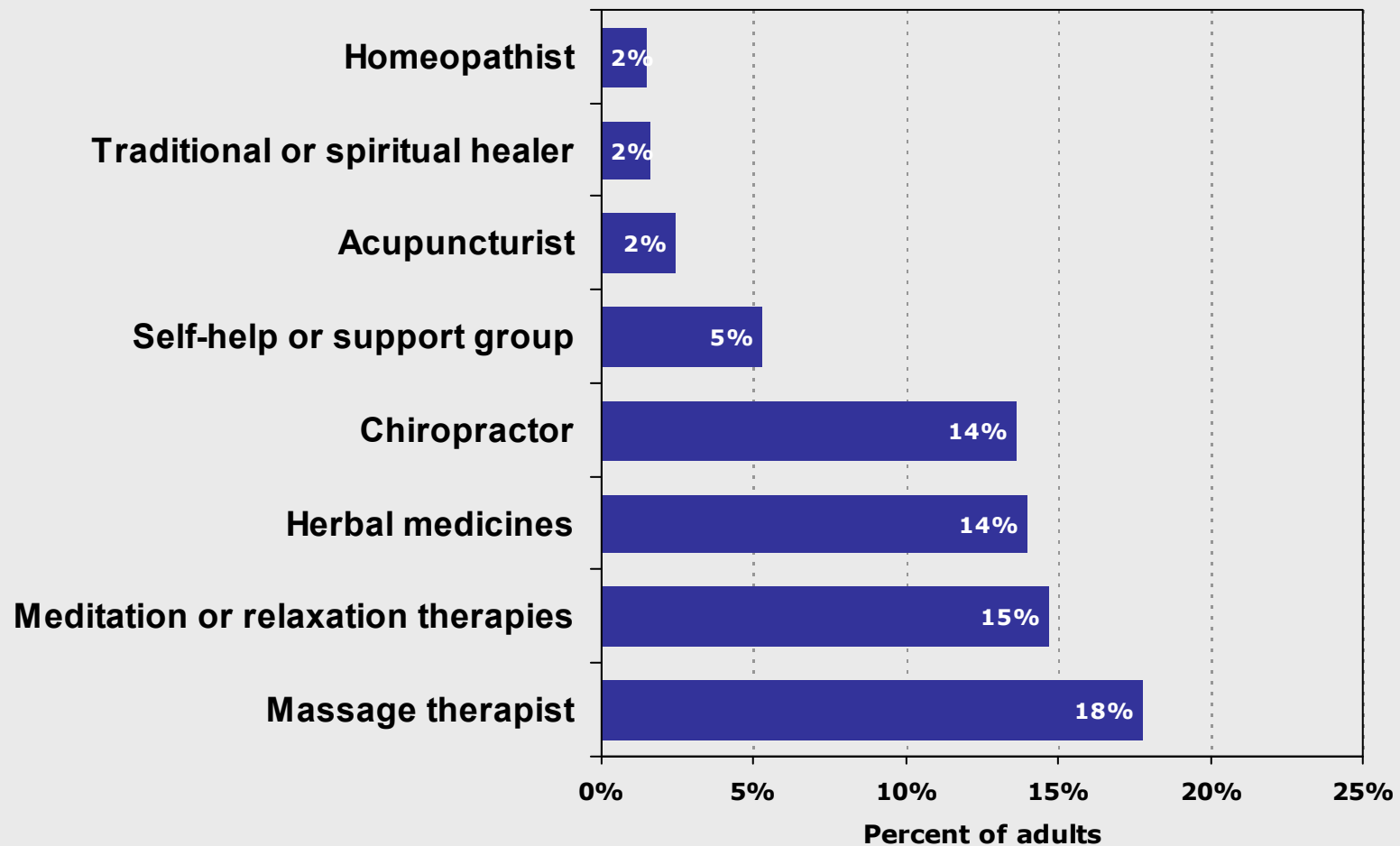
# Pap smear in past 3 years



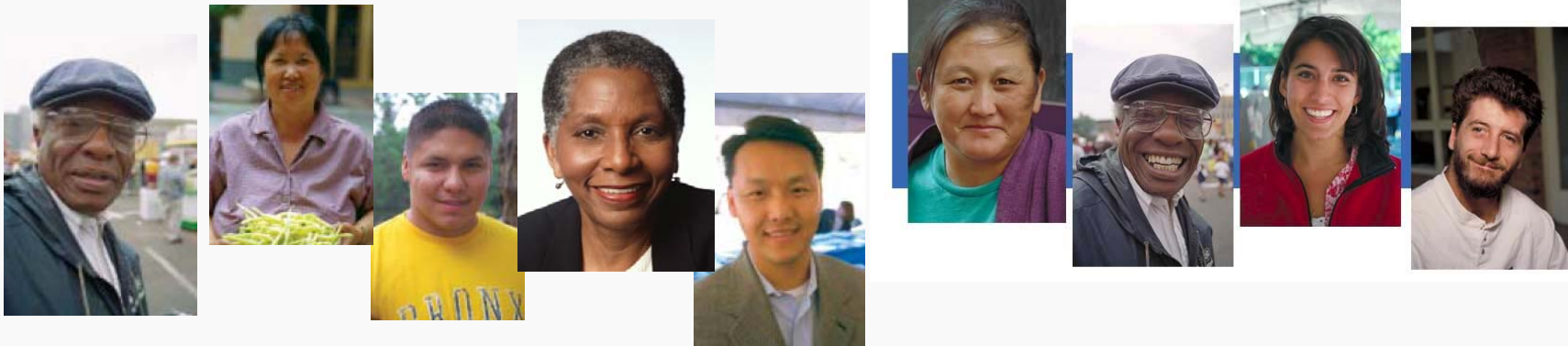
# Cholesterol checked past 5 years



# Complementary and Alternative Medicine



# Healthy lifestyle and risk behaviors

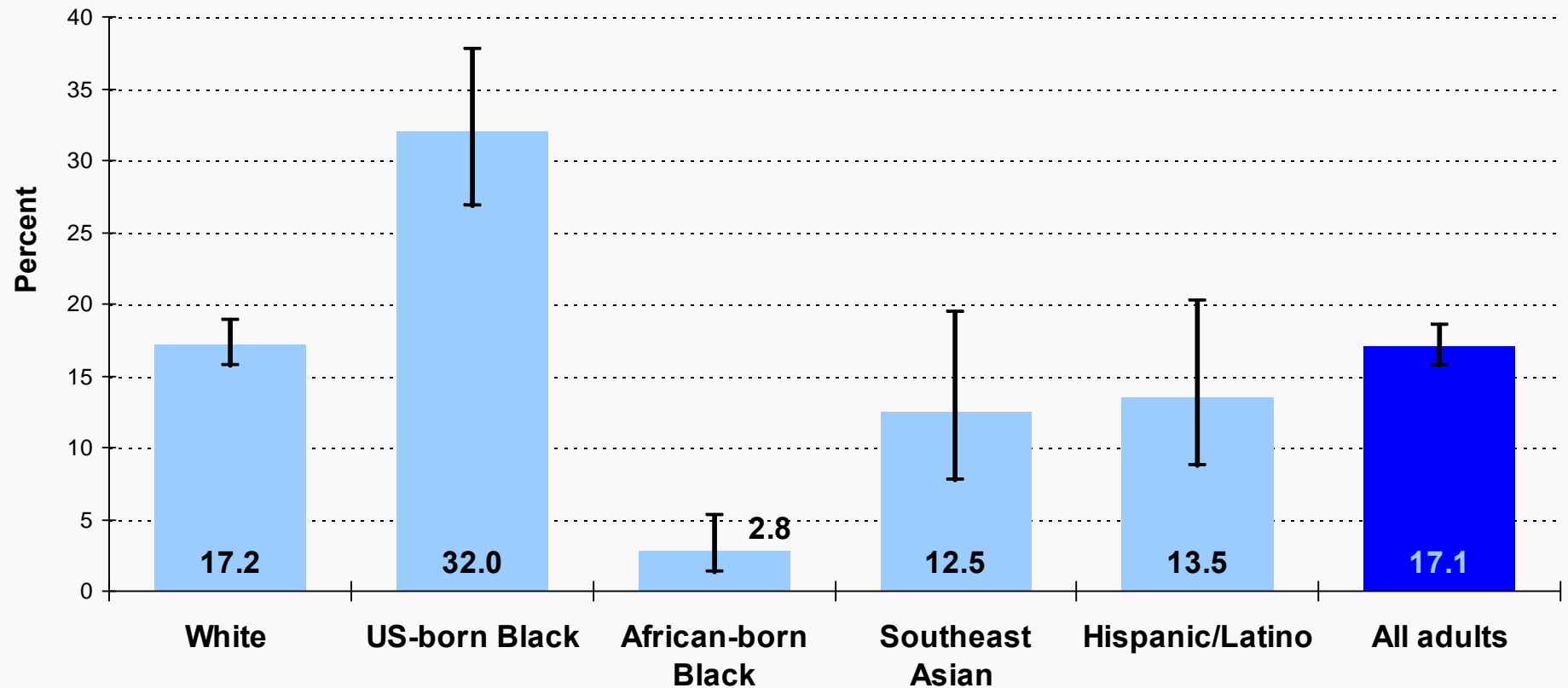


## Preventable deaths in United States 2000\*

Lifestyle choices	Deaths in US 2000	% of total death
Smoking	435,000	18.1%
Poor diet and physical inactivity	365,000	15.2%
Alcohol consumption	85,000	3.5%
<b>Total</b>	<b>885,000</b>	<b>36.8%</b>

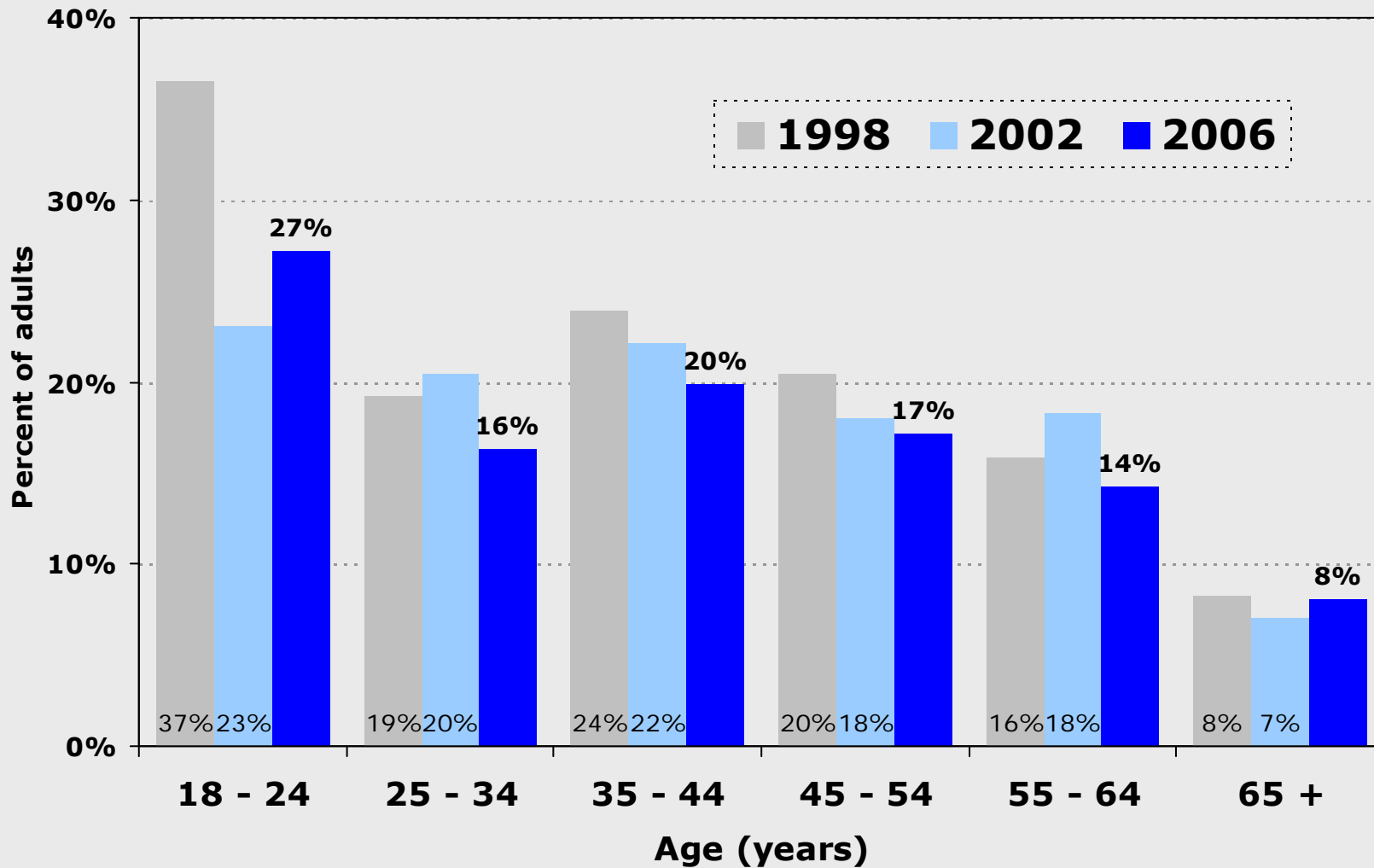
\* Mokdad, Marks, Stroups & Gerberding. Actual causes of death in the United States, 2000. JAMA. 2004; 291:1238-1245, with correction.

# Currently smoking by race and ethnicity

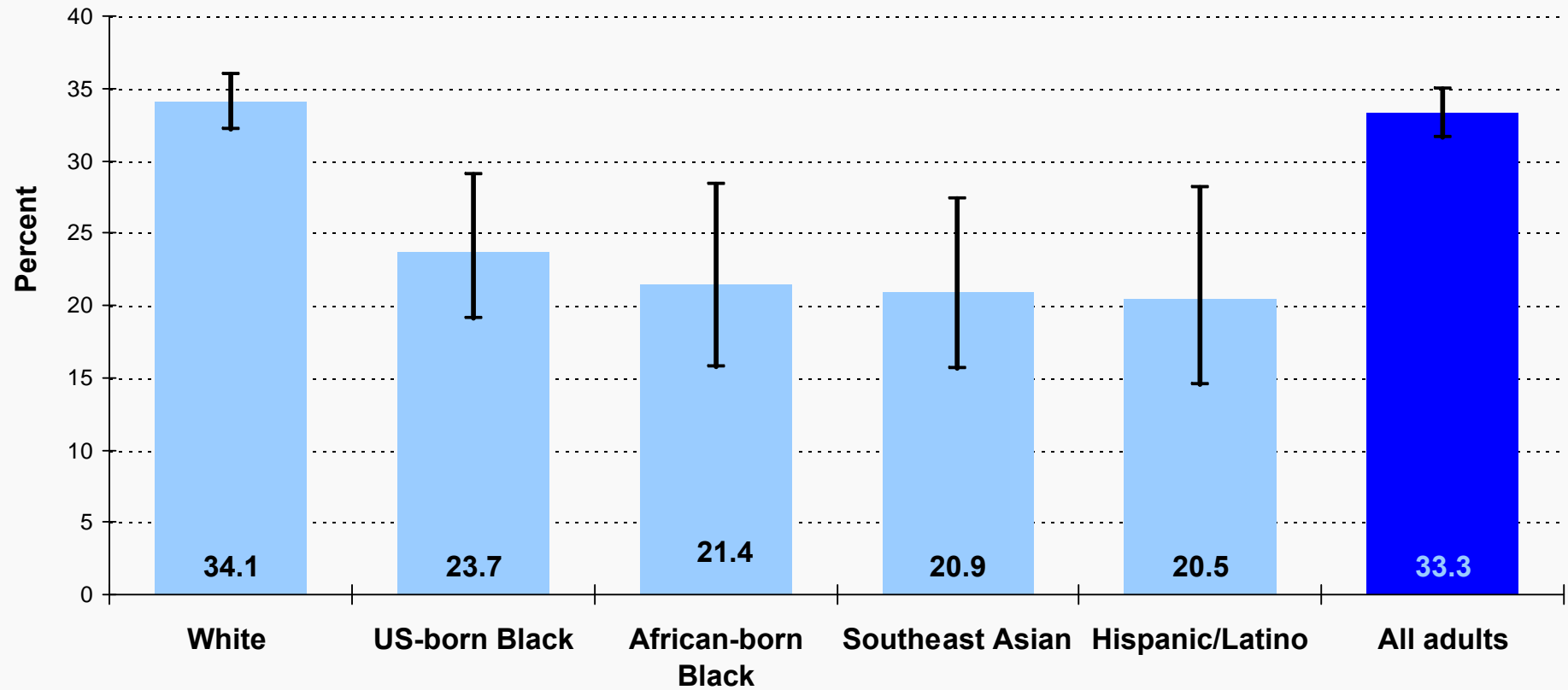


The vertical line for each bar represents the 95% confidence intervals.

# Currently smoking by age



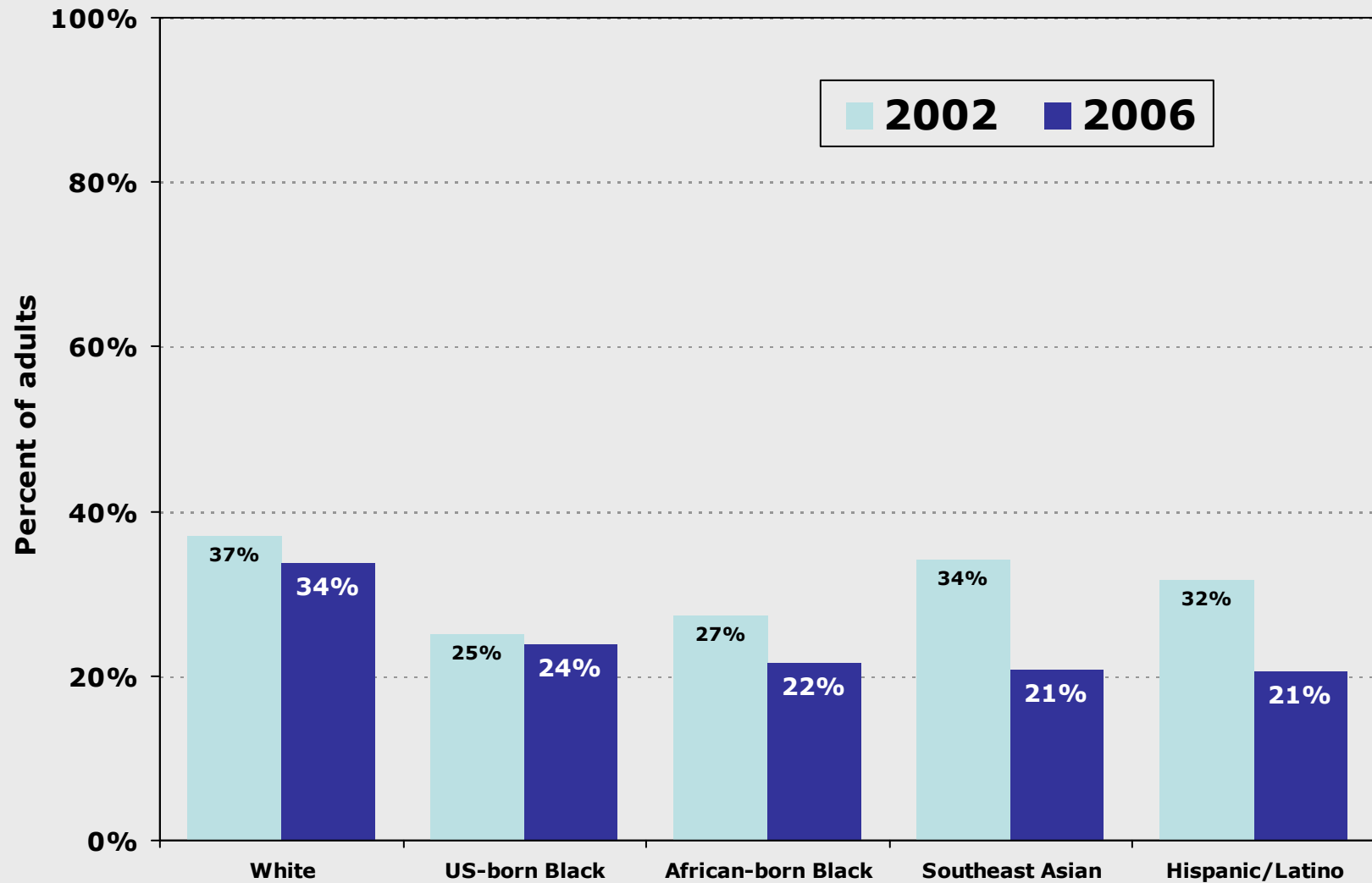
# Having $\geq 5$ servings of fruits and vegetables yesterday by race and ethnicity



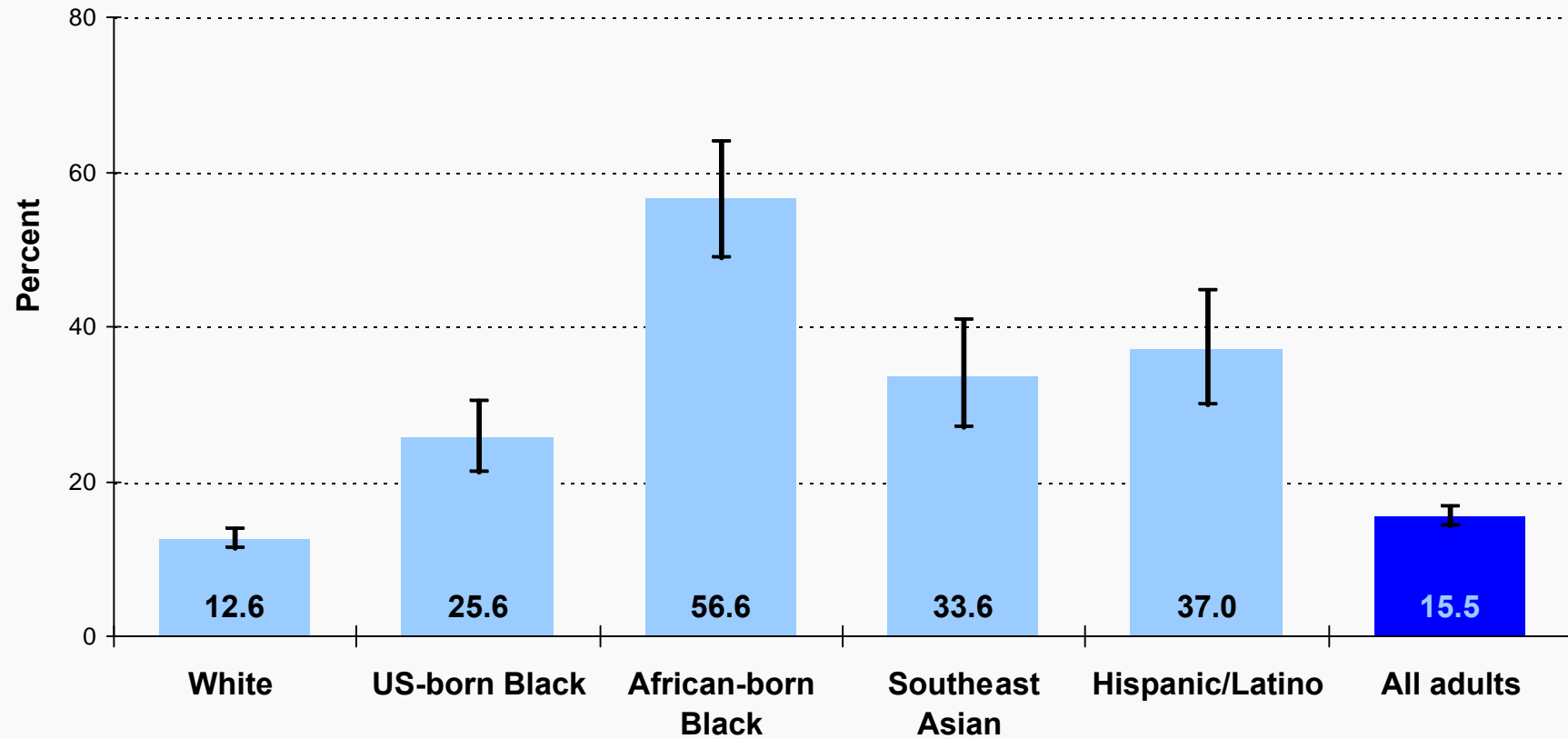
The vertical line for each bar represents the 95% confidence intervals.



# Fruits & vegetables 5 per day

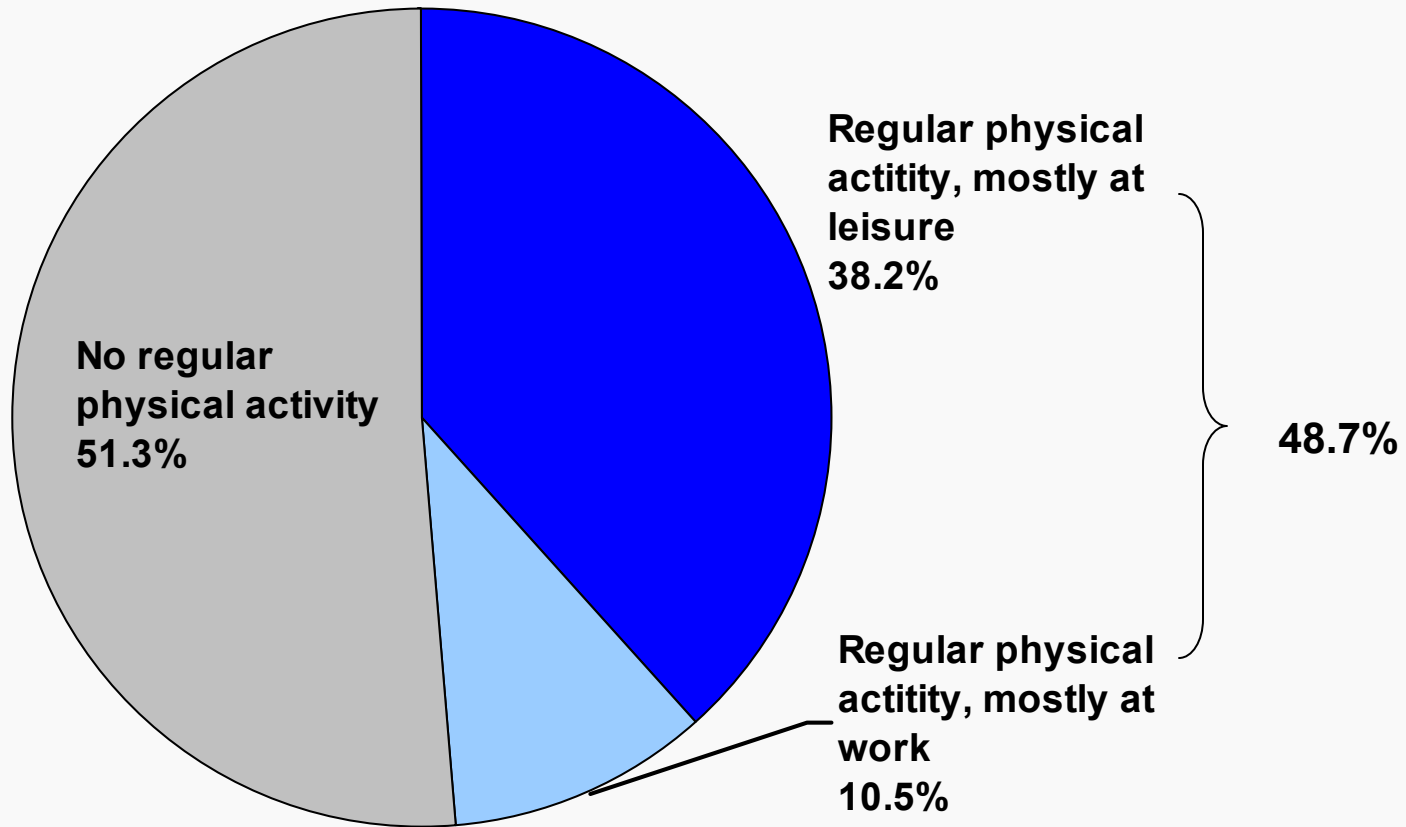


# NO leisure time physical activity by race and ethnicity

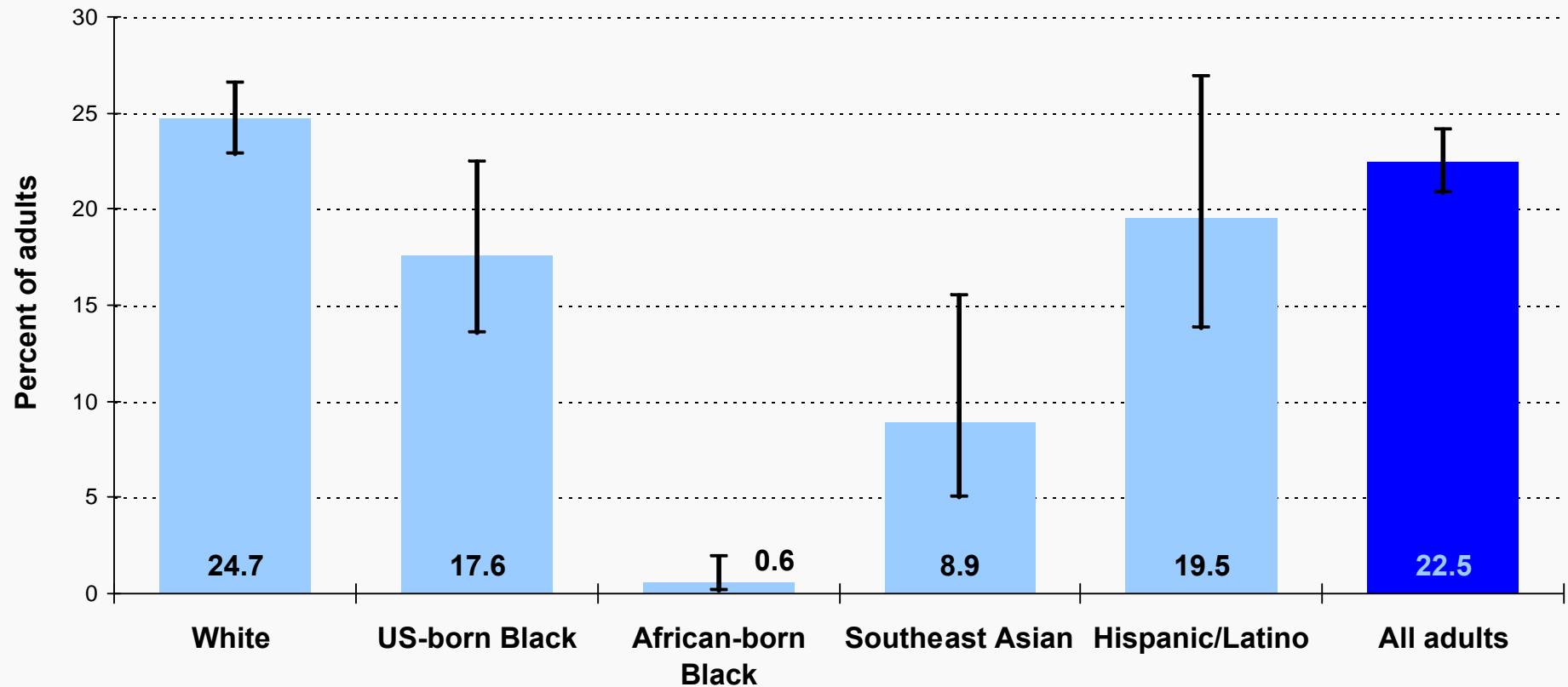


The vertical line for each bar represents the 95% confidence intervals.

## Regular physical activity among Hennepin County adults, 2006



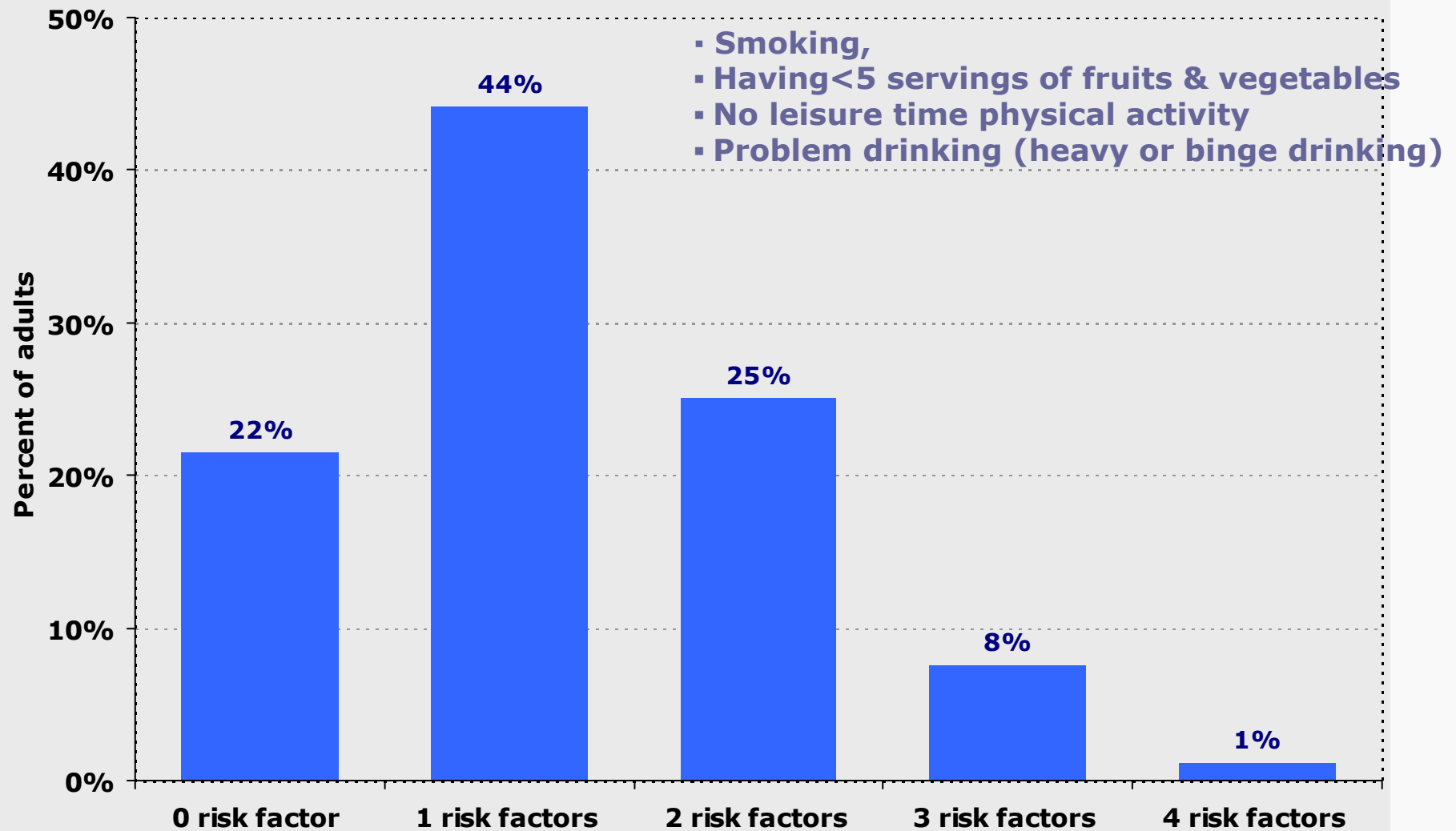
## Problem drinking\* by race and ethnicity



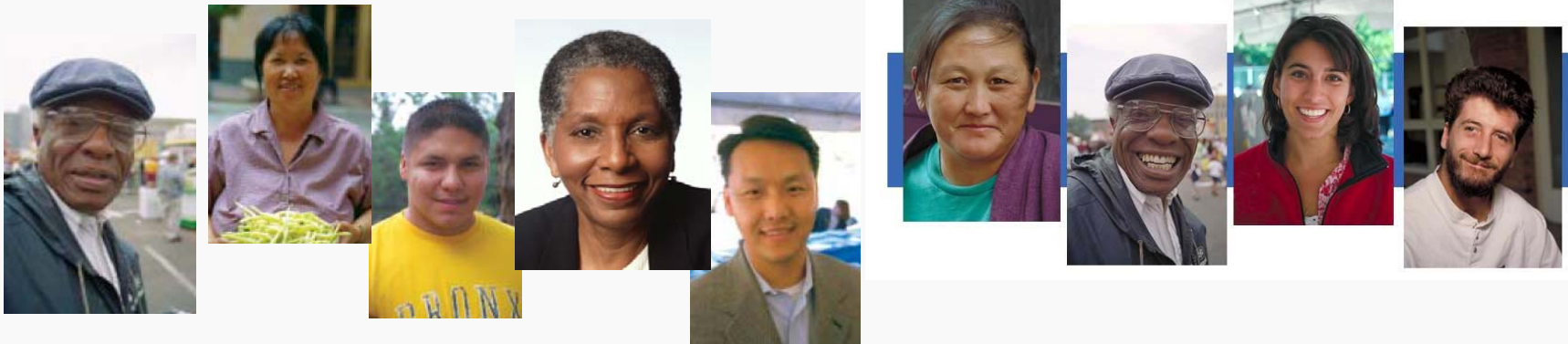
The vertical line for each bar represents the 95% confidence intervals.

\* Either binge drinking or drinking heavily (male  $\geq 2$  drinks/day, female  $\geq 1$  drink/day).

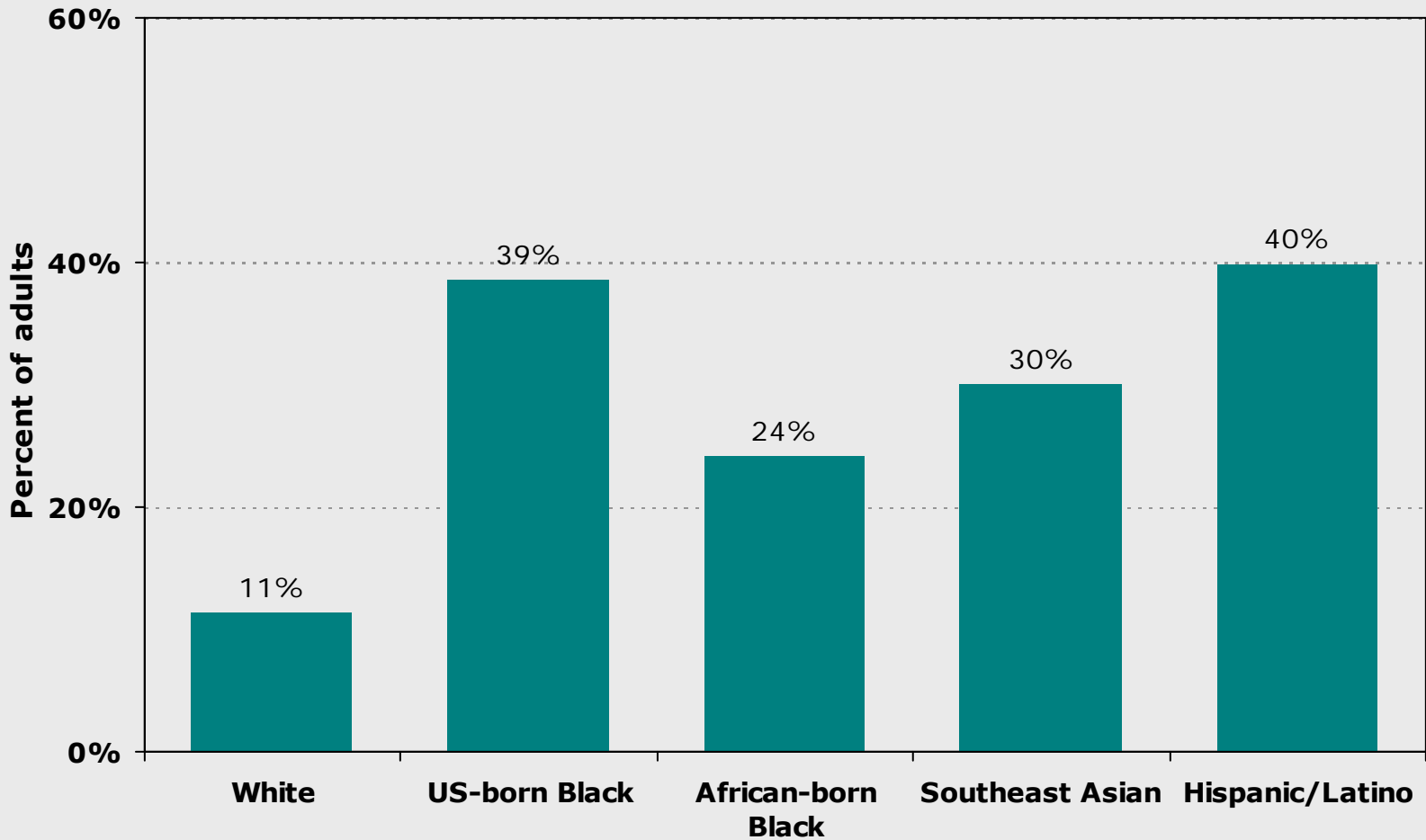
# Lifestyle characteristics



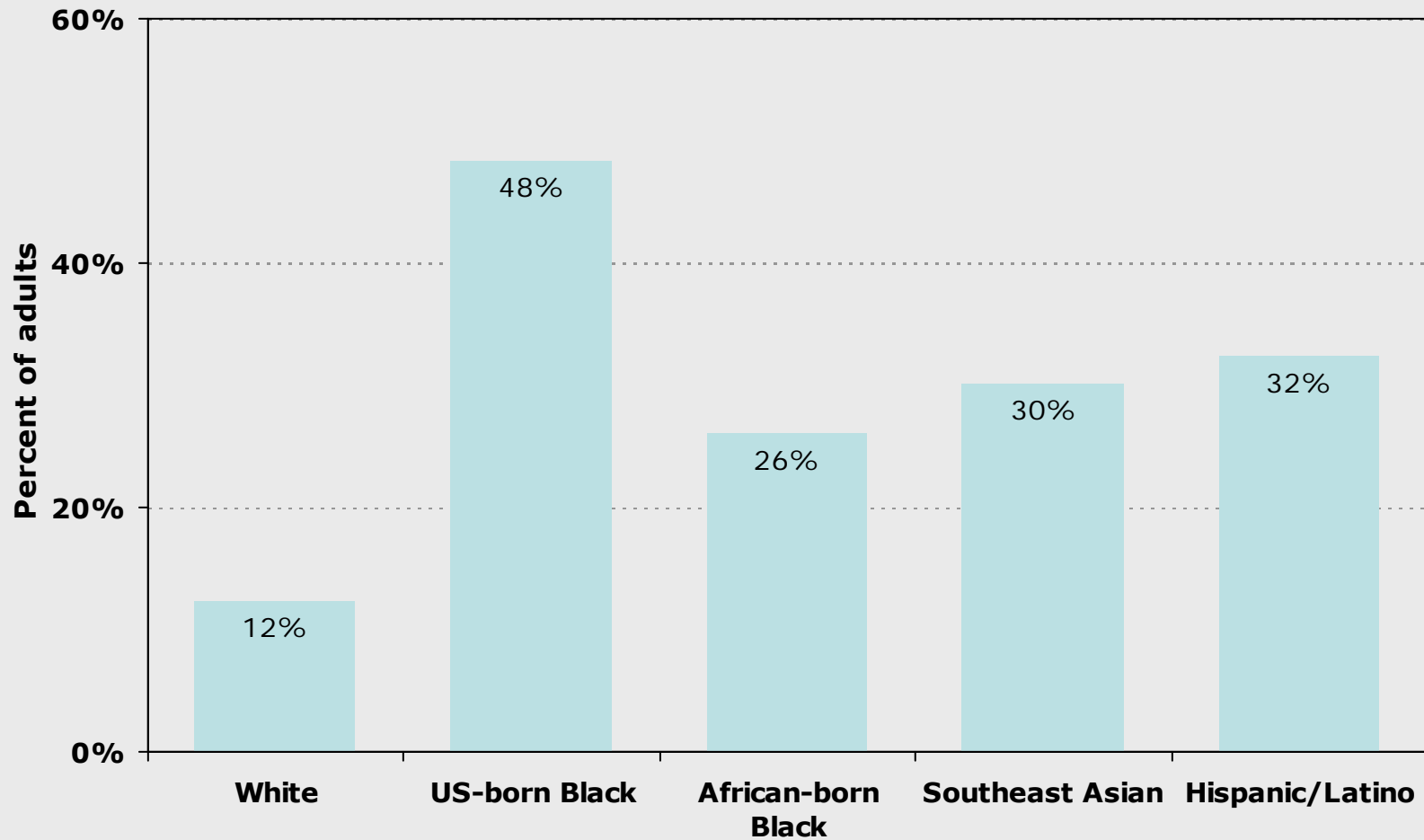
# Social and community factors



## Gang is a serious issue in community (agree or strongly agree)



# Experienced discrimination





# Economic distress

Measure	All Adults	Adults with low household income*
<b>Worry that your food would run out before you had money to buy more? (often/sometimes)</b>	<b>9.2%</b>	<b>28.9%</b>
<b>Missed a mortgage or rent payment because you didn't have enough money?</b>	<b>6.5%</b>	<b>17.6%</b>
<b>Moved more than once in past two years?</b>	<b>7.0%</b>	<b>9.9%</b>

\* Adults reporting that they or someone from their households receiving (low income) public assistances.

# Economic distress

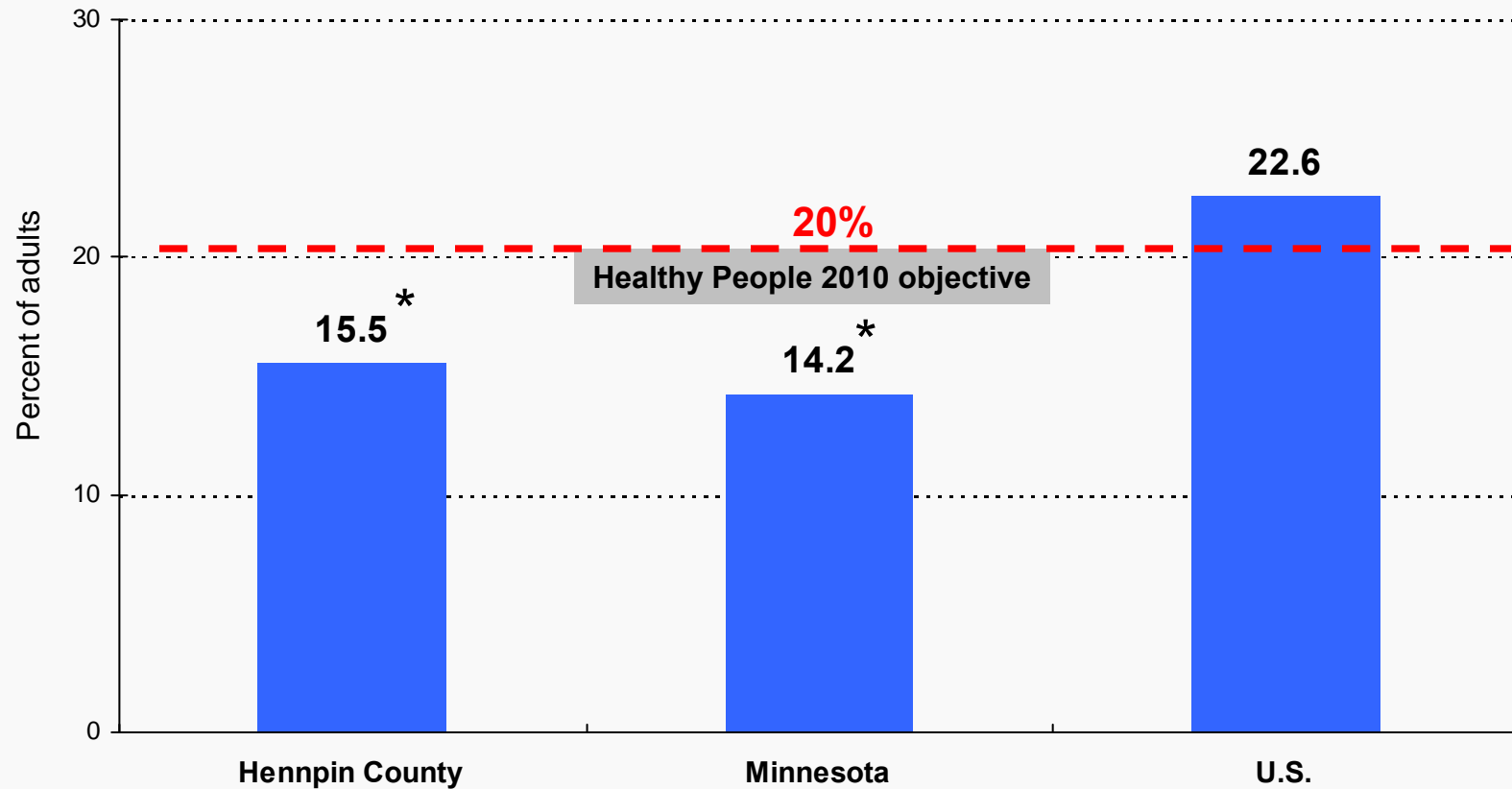
Measure	All Adults	Adults with low household income*
<b>Difficulty paying health insurance premiums/co-pays/deductibles? (very-somewhat)</b>	<b>27.1%</b>	<b>44.6%</b>
<b>Difficulty paying for prescription drugs? (very-somewhat)</b> (among those who regularly taking prescription medications)	<b>23.0%</b>	<b>38.6%</b>
<b>Skipped or took smaller doses of prescription medications due to cost? (often-sometimes)</b> (among those who regularly taking prescription medications)	<b>12.0%</b>	<b>30.0%</b>

\* Adults reporting that they or someone from their households receiving (low income) public assistances.

# SHAPE data use example: NO Leisure Time Physical Activity

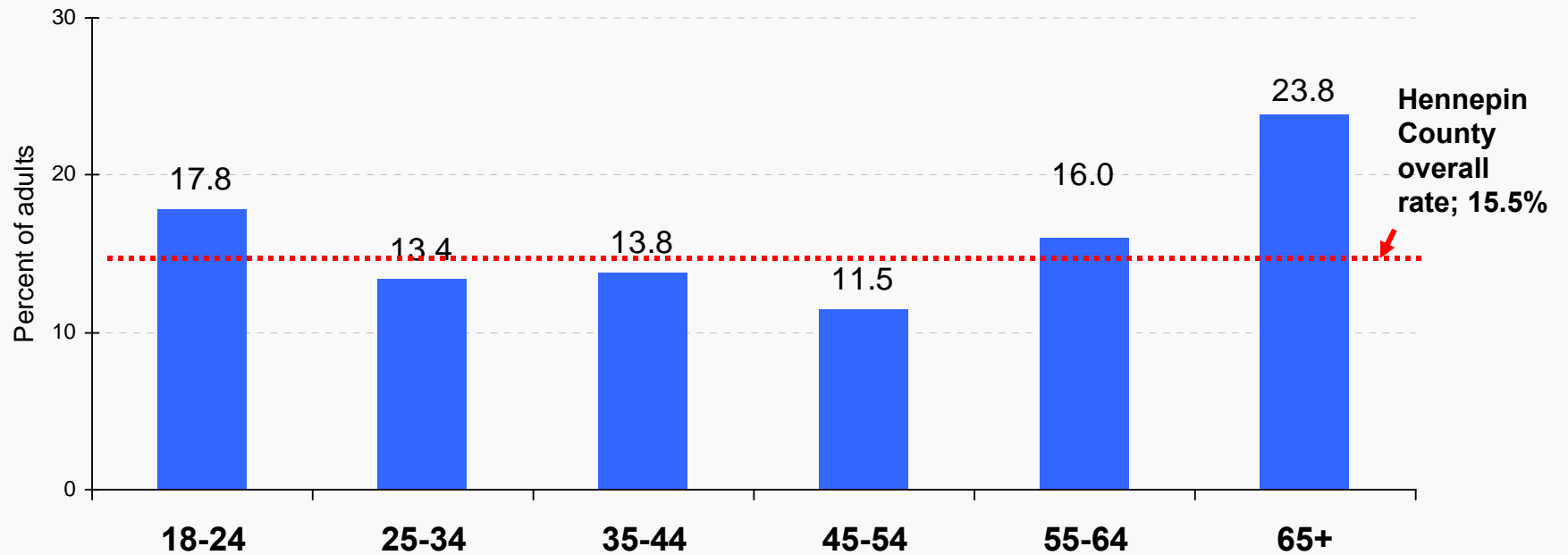


## NO leisure time physical activity Hennepin County, Minnesota and U.S. 2006

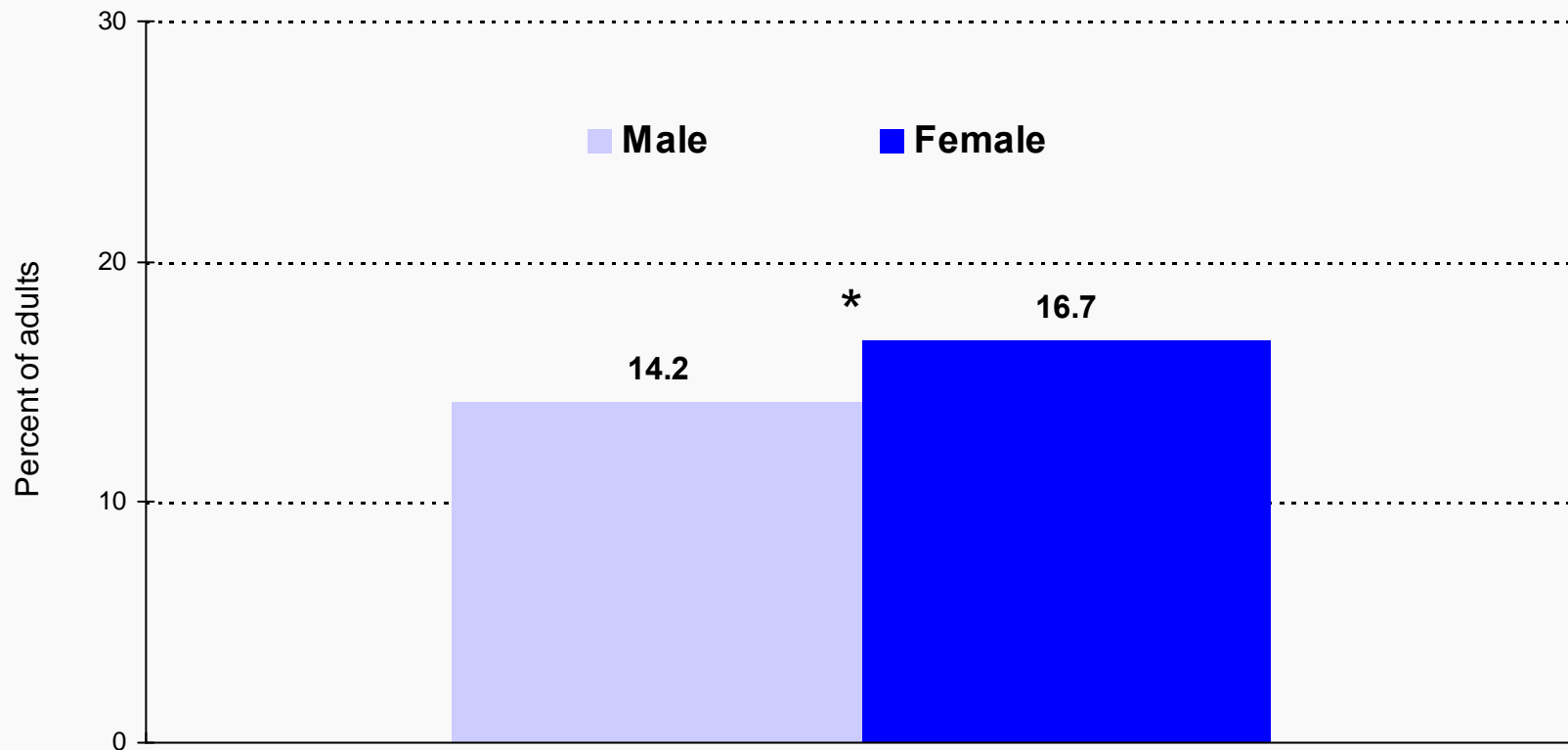


\* Difference in rates between this group and the rate for U.S. is statistically significant at  $p < 0.05$ .  
Sources: SHAPE 2006, BRFSS 2006 (prevalence on-line, accessed 2-26-2008)

## NO leisure time physical activity by age

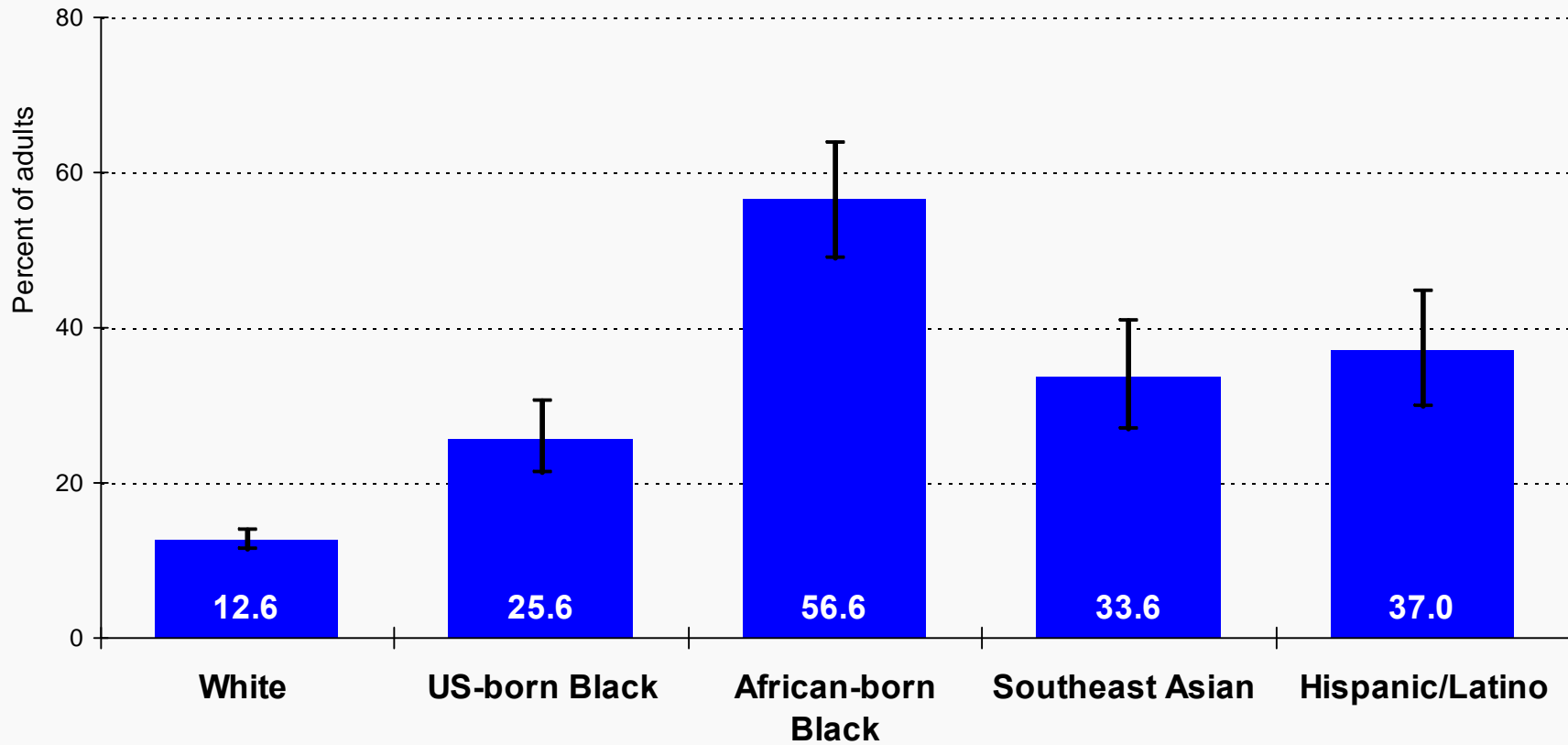


## NO leisure time physical activity by gender



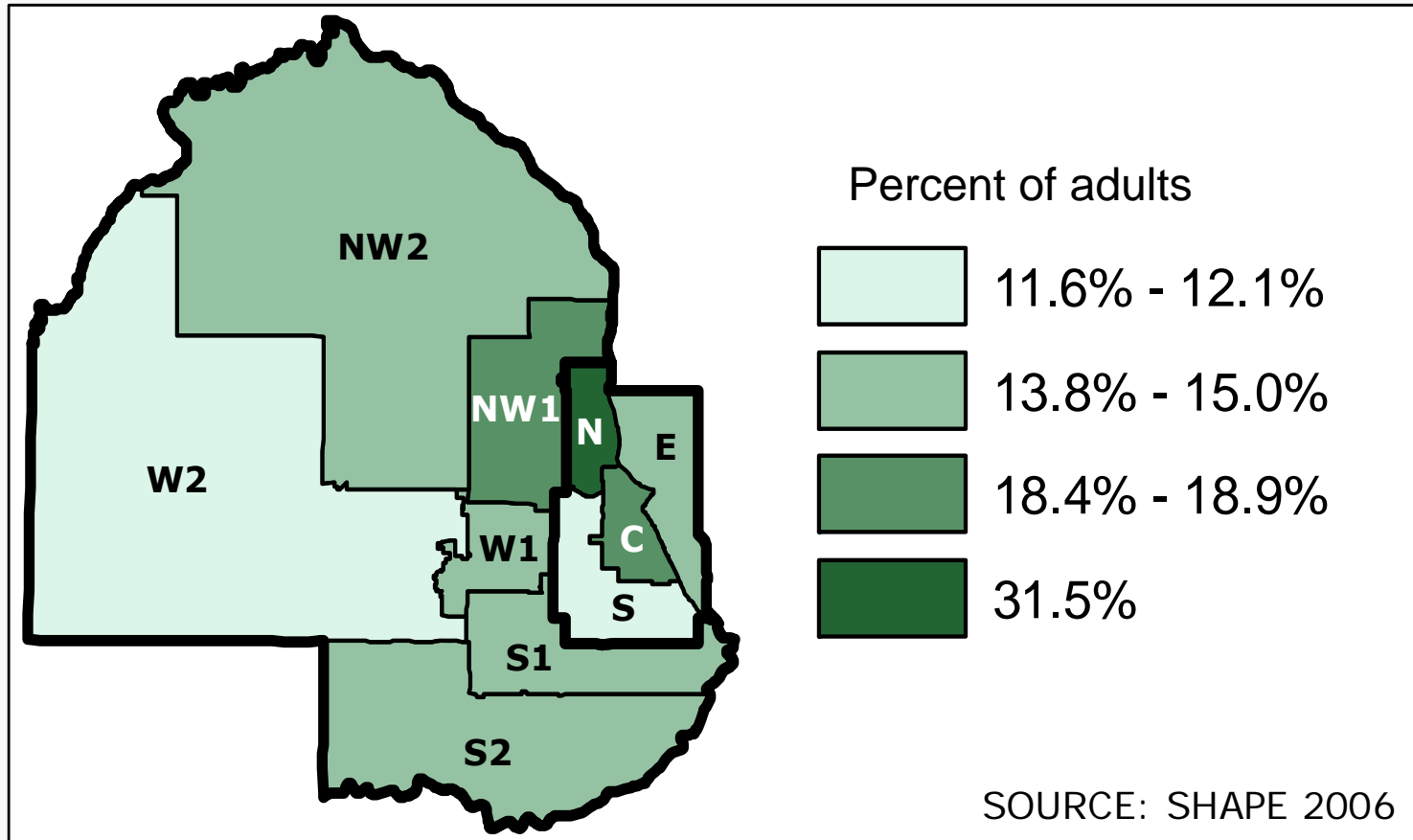
\* Difference in rates between gender is statistically significant at  $p < 0.05$ .

# NO leisure time physical activity by race and ethnicity



The vertical line for each bar represents the 95% confidence intervals.

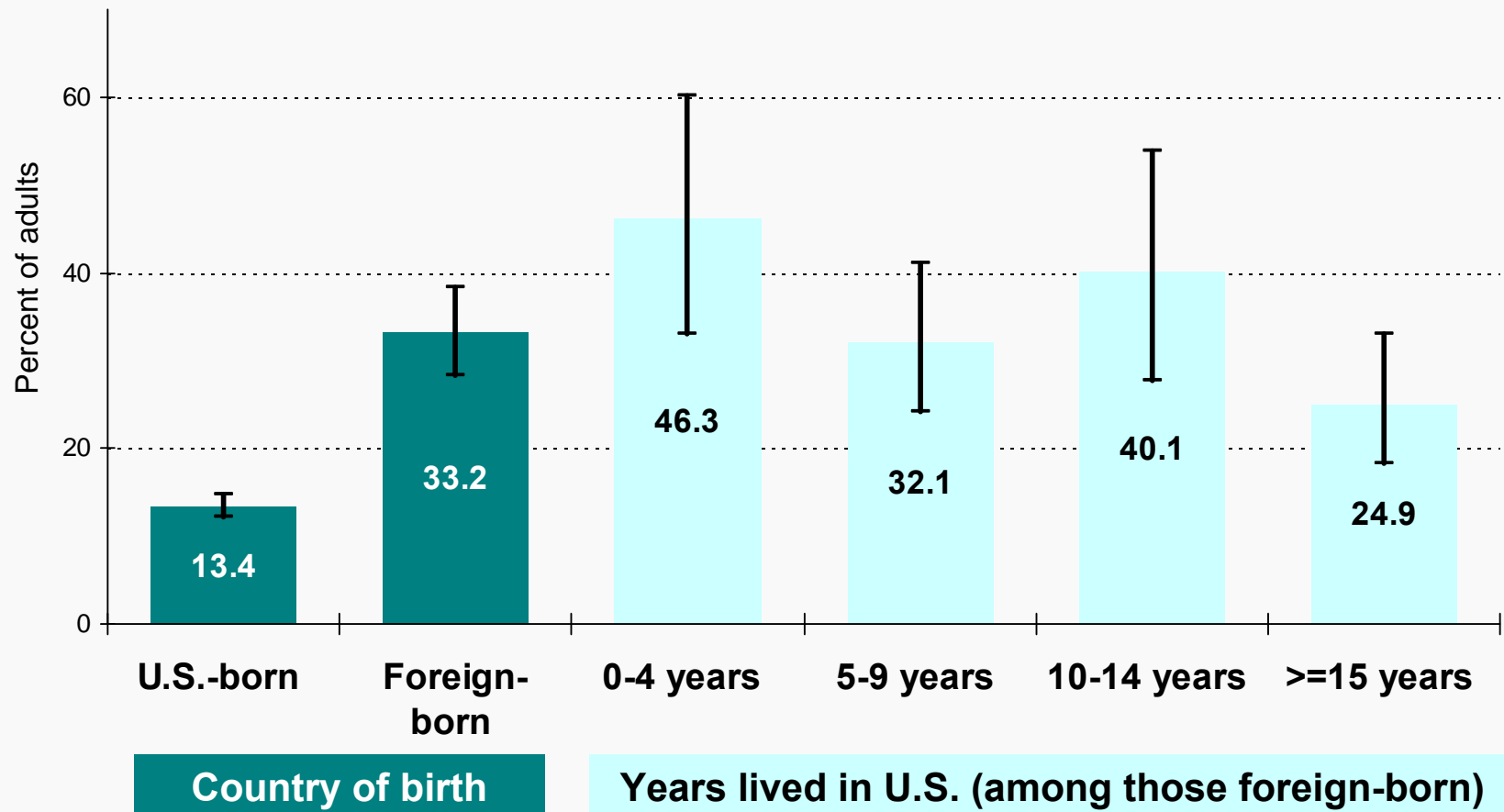
# NO leisure time physical activity by geographic areas



Geographic areas	
<b>Minneapolis</b>	
N	Near-North, Camden
E	Northeast, University, Longfellow City of St. Anthony
C	Central, Phillips, Powderhorn
S	Calhoun-Isles, Southwest, Nokomis
<b>Suburban Hennepin</b>	
W1	West Inner Ring Suburbs
S1	South Inner Ring Suburbs
W2	West Outer Ring Suburbs
S2	South Outer Ring Suburbs

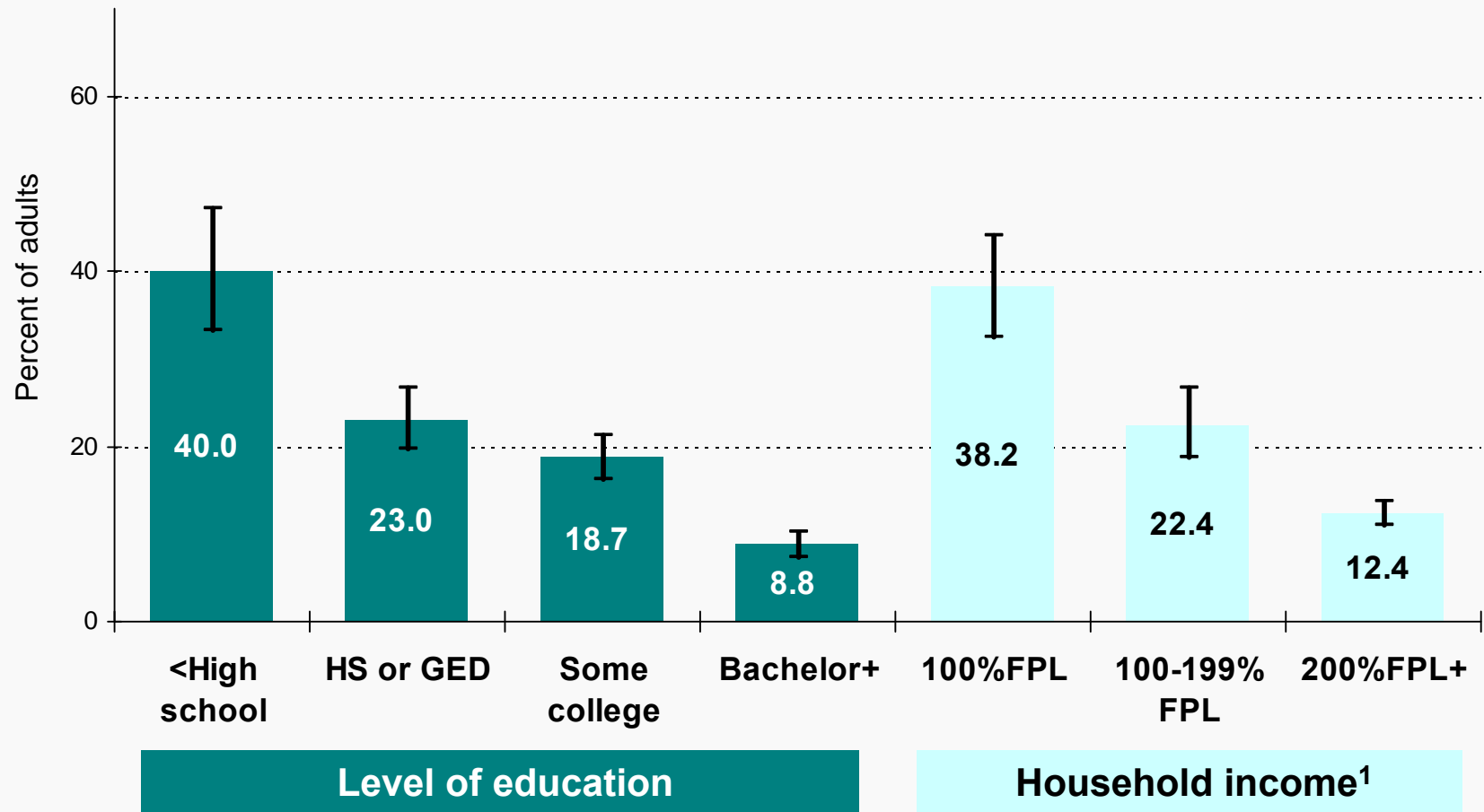


# NO leisure time physical activity by country of birth and years lived in U.S.



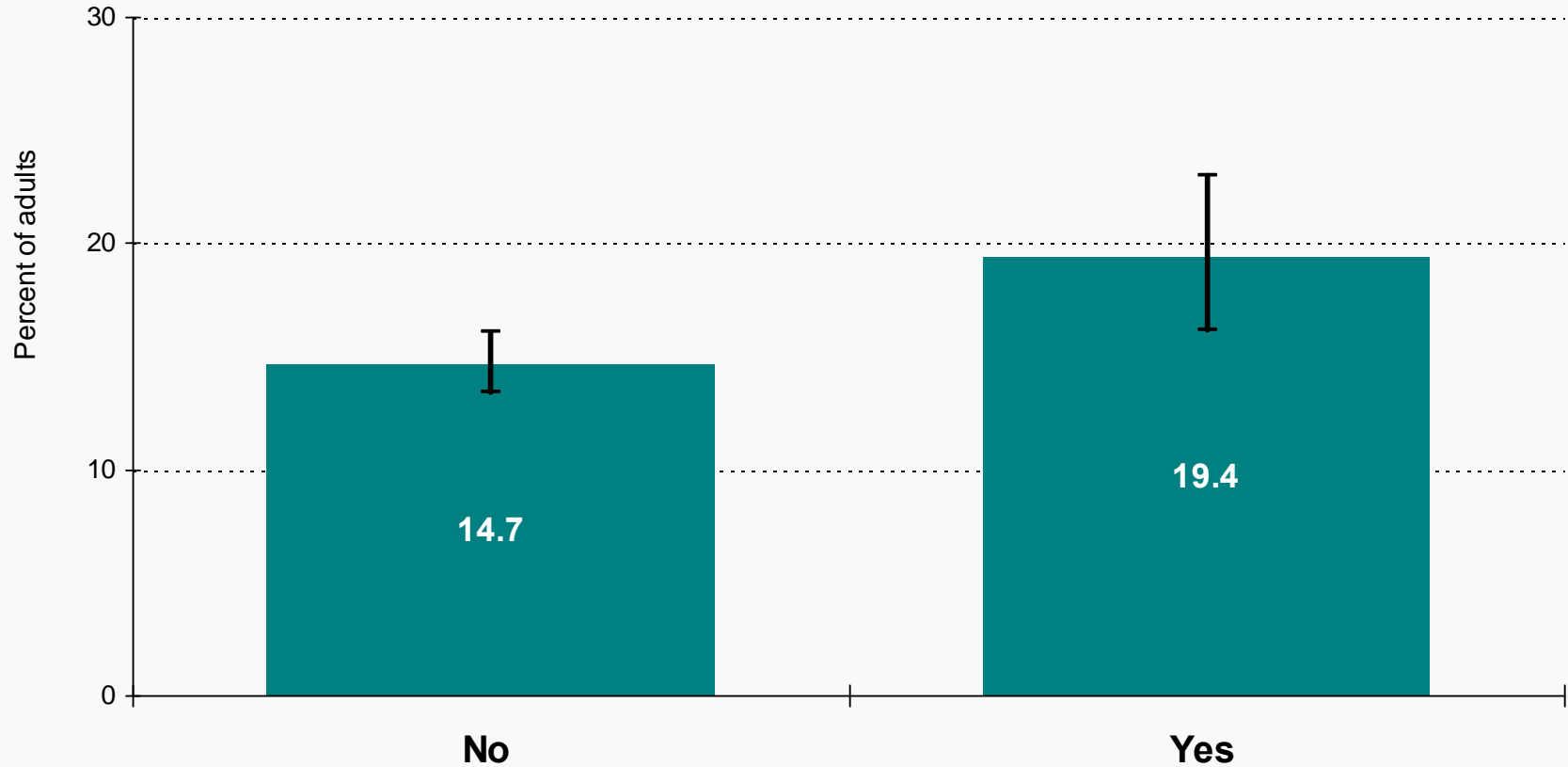
The vertical line for each bar represents the 95% confidence intervals.

# NO leisure time physical activity by level of education and household income



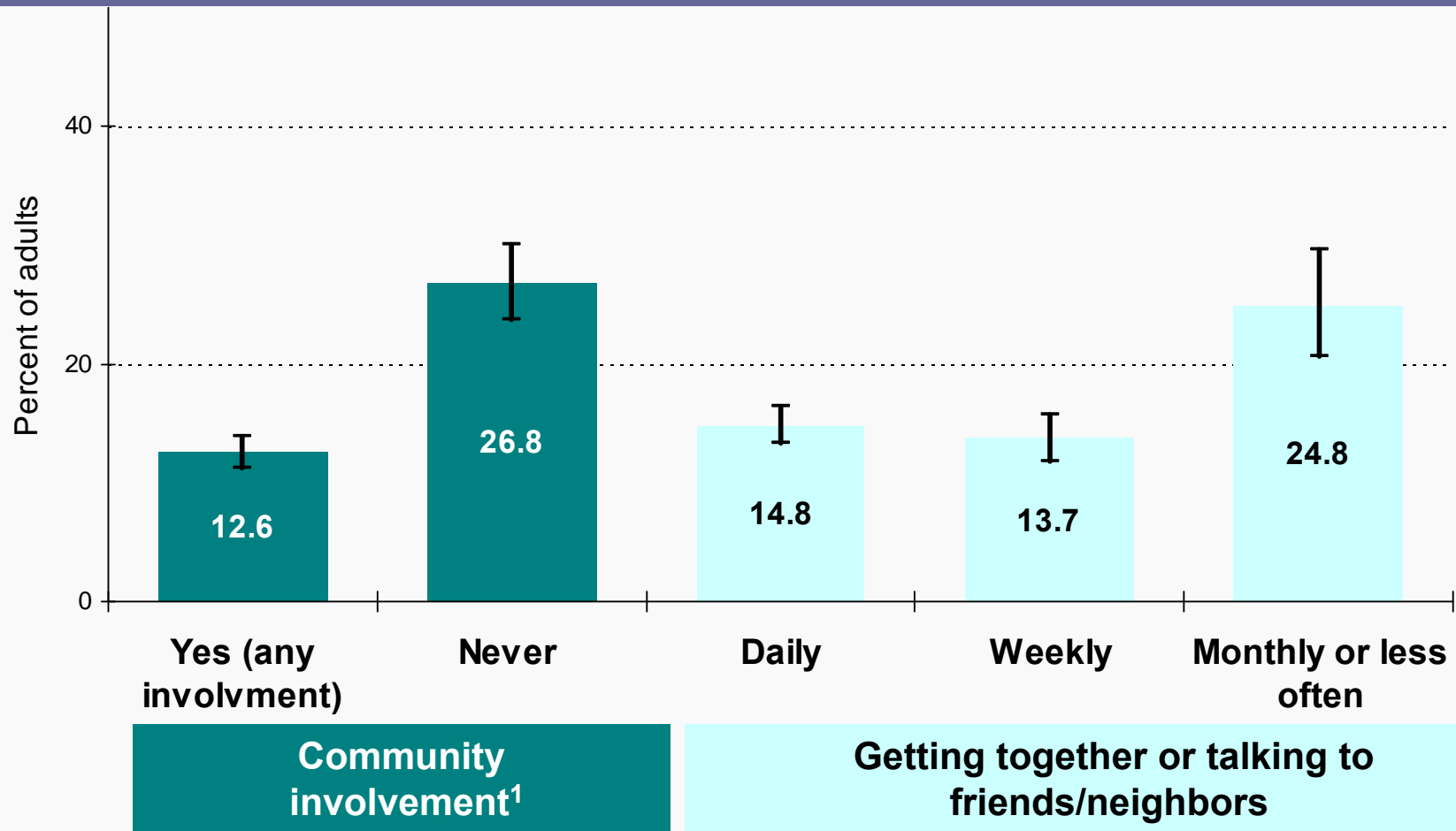
1. Household income as a percent of 2005 Federal Poverty Level  
The vertical line for each bar represents the 95% confidence intervals (CIs).

## NO leisure time physical activity by experience of discrimination during the past 12 months



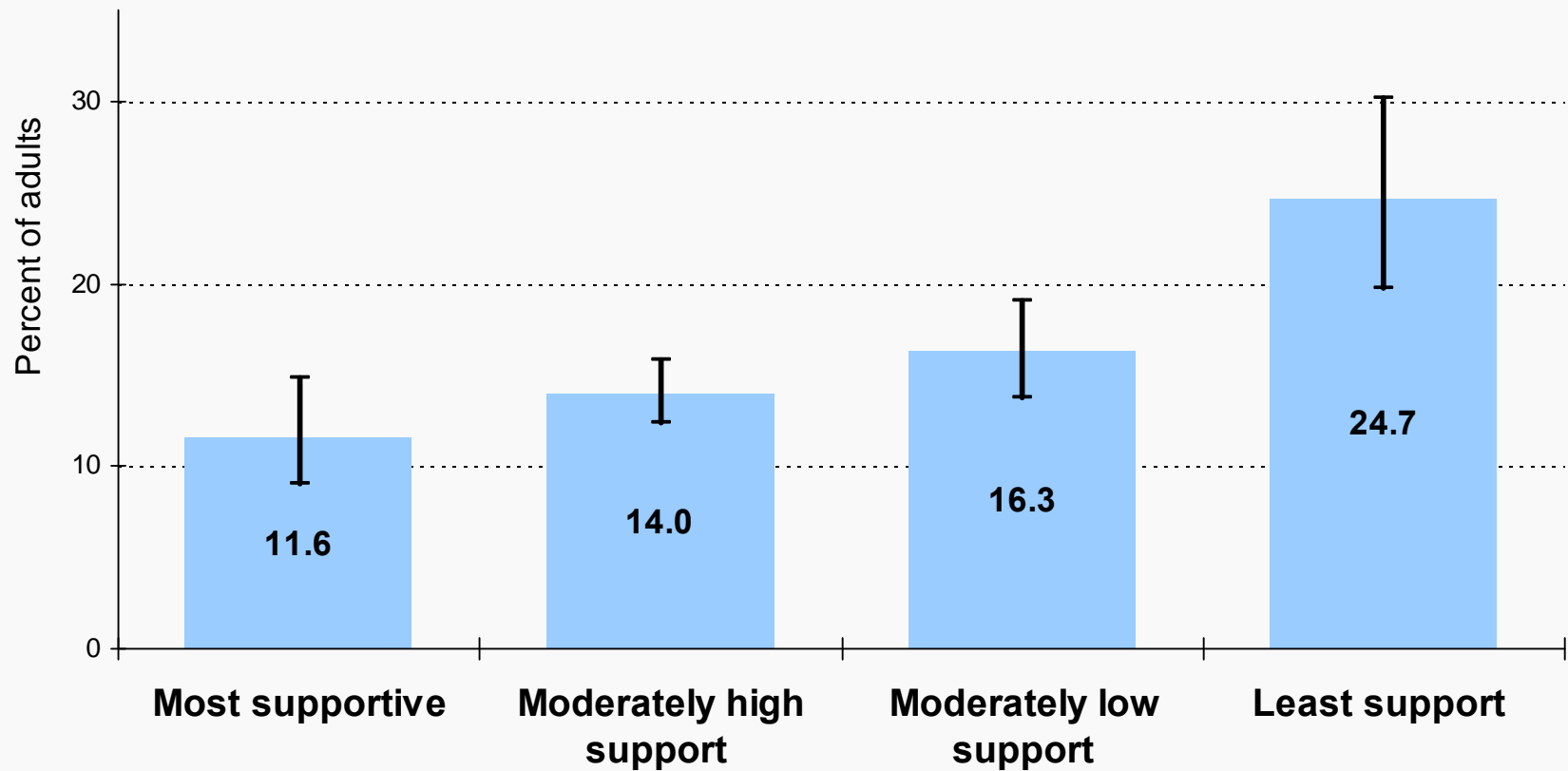
The vertical line for each bar represents the 95% confidence intervals.

# NO leisure time physical activity by social connectedness



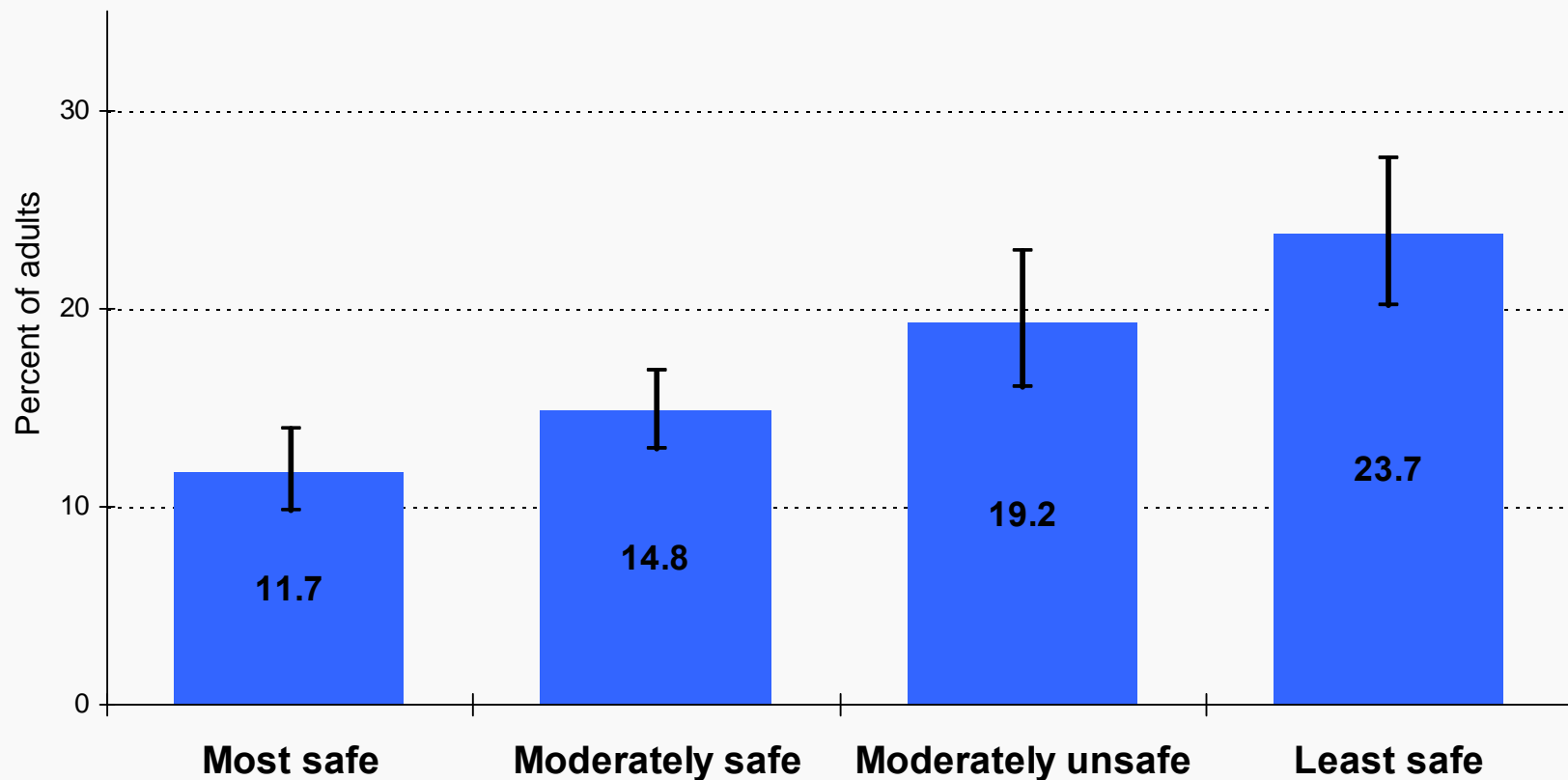
1. Respondent was asked “How often are you involved in school, community or neighborhood activities?” The vertical line for each bar represents the 95% confidence intervals.

# NO leisure time physical activity by perceived level of neighborhood support



The vertical line for each bar represents the 95% confidence intervals.

## NO leisure time physical activity by perceived level of neighborhood safety



The vertical line for each bar represents the 95% confidence intervals.

**SHAPE 2006 project team appreciates  
Public Health Advisory Committee's  
support and contribution, and  
welcome and value the opportunity to  
work with you and communities to  
utilize SHAPE and  
other local health data.**

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