# Obesity Among Adults in the United States— No Statistically Significant Change Since 2003-2004

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# NCHS Data Brief

### Importance

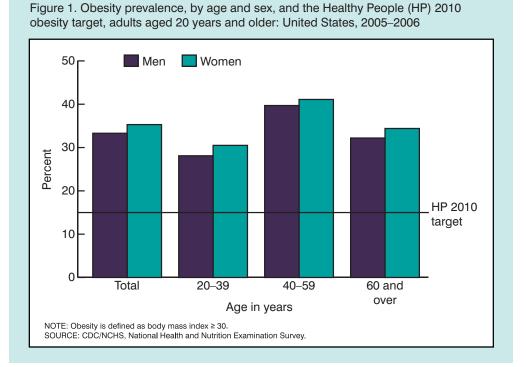
Obesity continues to be a public health concern in the United States and throughout the world (1–4). In the United States, obesity prevalence doubled among adults between 1980 and 2004 (5,6). Obesity is associated with increased risk of a number of conditions, including diabetes mellitus, cardiovascular disease, hypertension, and certain cancers, and with increased risk of disability and a modestly elevated risk of all-cause mortality. Although obesity is a consequence of complex factors including an increase in the consumption of calories and a decrease in physical activity, the prevalence of obesity is influenced by environmental factors. In the United States, foods are inexpensive and widely available. In addition, food portion sizes have increased and individuals are eating out of the home more often. On the other hand, opportunities for physical activity may have decreased.

Keywords: obesity • prevalence • trends

### **Findings**

### How many adults in the United States are obese?

• More than one-third of adults, or over 72 million people, were obese in 2005–2006.



Obesity rates have increased dramatically in the last 25 years and among men, there was an increase in obesity prevalence between 1999 and 2006. There was no significant change in obesity prevalence, however, between 2003-2004 and 2005-2006 for men or women.



## Highlights

No. 1

Data from the National Health and Nutrition Examination Survey

▶ More than one-third of U.S. adults were obese in 2005–2006. This includes 33.3% of men and 35.3% of women.

► Obesity rates have increased since the 1976–1980 survey period. There was no significant change in obesity prevalence, however, between 2003–2004 and 2005–2006 for either men or women.

► Recent data show racial and ethnic obesity disparities for women but not for men. Non-Hispanic black and Mexican-American women were more likely to be obese than non-Hispanic white women.

► Among obese adults, approximately two-thirds have been told by a health care provider that they are overweight.





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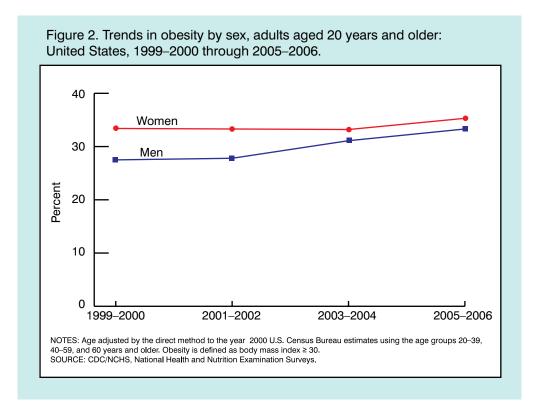
No significant difference in obesity existed between men and women. Adults 40–59 years of age were more likely to be obese compared with younger and older individuals. Approximately 40% of men 40–59 years of age were obese compared with 28.1% of 20–39 year-olds and 32.2% of those aged 60 years and older. Among women, 41.1% of those 40–59 years of age were obese, whereas 30.5% of younger women 20–39 years of age were obese. No significant difference existed between the oldest women (60 years and older) and younger women.

• The Healthy People (HP) 2010 objective of an obesity prevalence less than 15% has not been met for men nor women of any age.

The HP 2010 target prevalence for obesity is 15% or about one-half the actual level of obesity. This target level was last achieved in 1980. In 2005–2006, 34.3% of adults were obese.

#### Has obesity among adults increased since 2004?

• There was no significant increase in the prevalence of obesity between 2003–2004 and 2005–2006 in the United States.

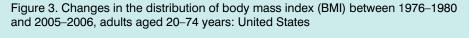


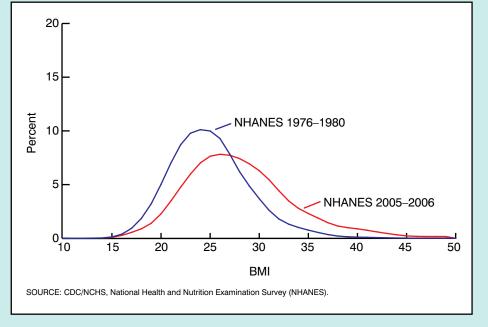
Among men, the prevalence was 31.1% in 2003–2004 and 33.3% in 2005–2006. There was no statistically significant change. Among women, the prevalence in 2003–2004 was 33.2% and in 2005–2006 it was 35.3%. Again, these estimates were not statistically different from each other.



# • Changes in the prevalence of obesity do not present a complete picture of the trends in weight (measured by body mass index (BMI)) among U.S. adults.

A more complete picture can be seen by comparing the distribution of BMI in 1976–1980 with the distribution in 2005–2006 for adults 20–74 years of age. Between 1976–1980 and 2005–2006 the distribution of BMI shifted to the right but the shift was greatest at the upper percentiles of the distribution. This indicates that the entire adult population is heavier, and the heaviest have become much heavier since 1980.





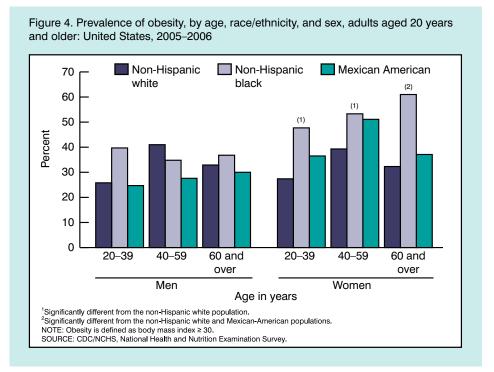
#### Are some groups more likely to be obese compared with others?

• There were large disparities in obesity prevalence by race-ethnic group among women. Non-Hispanic black and Mexican-American women were more likely to be obese than white women. Race/ethnic disparities in obesity were not observed in men.

Approximately 53% of non-Hispanic black women and 51% of Mexican-American women 40–59 years of age were obese compared with about 39% of non-Hispanic white women of the same age.

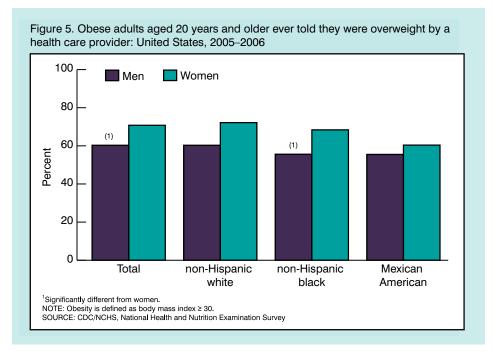


Among women 60 years and older, 61% of non-Hispanic black women were obese compared with 32% of non-Hispanic white women and 37% of Mexican-American women. Among men, however, the prevalence of obesity did not differ significantly by race/ethnic group.



### Are obese adults told by their health providers that they are overweight?

• Among obese adults, just over 65% were ever told by a health care provider that they were "overweight." Obese women were more likely to be told they were "overweight" than were men.





#### Summary

Over 34% of adults aged 20 years and older are obese, but there has been no significant change in the prevalence since 2003–2004. The increasing trend in obesity over the last 25 years is a result of a shift in the entire BMI distribution and an increase in the prevalence of those who are extremely obese. In addition, disparities continue to exist.

Non-Hispanic black and Mexican-American women continue to experience a higher prevalence of obesity than their non-Hispanic white counterparts. Although approximately two-thirds of obese individuals have been told by a health care provider that they are "overweight," obesity is extremely difficult to treat and the prevalence of obesity is not declining. Nonetheless, even without reaching ideal weight, research has shown that a moderate amount of weight loss can be beneficial in terms of reducing risk factors, such as high blood pressure. Maintenance of weight loss, however, remains difficult (7).

### Definitions

Body mass index (BMI) is calculated as weight in kilograms divided by height in meters squared, rounded to one decimal place. For adults 20 years or older, obesity is defined as a BMI of 30.0 or higher (8). See the table below for examples of obesity at different heights. The Healthy People 2010 target is 15% obesity.

Height	Weight Range
5'0"	153 lbs or more
5'6"	186 lbs or more
5'9"	203 lbs or more

#### **Data source**

The National Health and Nutrition Examination Survey (NHANES) data were used for these analyses (9). NHANES is designed to monitor the health and nutritional status of the United States civilian, noninstitutionalized population. The survey consists of interviews conducted in participants' homes, standardized physical examinations conducted in mobile examination centers, and laboratory tests utilizing blood and urine specimens provided by participants during the physical examination.

The NHANES sample is selected through a complex, multistage design that includes selection of primary sampling units (counties), household segments within the counties, and finally sample persons from selected households. The sample design includes oversampling in order to obtain reliable estimates of health and nutritional measures for population subgroups. In 2005–2006, African Americans, Mexican Americans, persons with low income, adolescents 12–19 years of age, and adults 60 years and older were oversampled. In 1999, NHANES became a continuous survey,



fielded on an ongoing basis. Each year of data collection is based on a representative sample covering all ages of the civilian, noninstitutionalized population. Public-use data files are released in 2-year cycles.

Sample weights, which account for the differential probabilities of selection, nonresponse and noncoverage, are incorporated into the estimation process. The race/ethnic estimates were age adjusted to the 2000 U.S. standard population using three age groups, 20–39, 40–59, and 60 years and older, in order to compare prevalence estimates between race/ethnic population subgroups that differ with respect to their age distributions. Statistical tests on differences between 2005–2006 and 2003–2004 or between subgroups of the population were done using *t*-tests at the p < 0.05 level. All data analyses were performed using the statistical packages SAS version 9.1 (SAS Institute, Cary, N.C.) and SUDAAN version 9.0 (RTI, Research Triangle Park, N.C.).

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## **Suggested citation**

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