Antidepressant Use Among Adults: United States, 2015–2018

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Key findings

Data from the National Health and Nutrition Examination Survey

- During 2015–2018, 13.2% of adults aged 18 and over used antidepressant medications in the past 30 days. Use was higher among women (17.7%) than men (8.4%).
- Antidepressant use increased with age, overall and in both sexes—use was highest among women aged 60 and over (24.3%).
- Antidepressant use was higher among non-Hispanic white (16.6%) adults compared with non-Hispanic black (7.8%), Hispanic (6.5%), and non-Hispanic Asian (2.8%) adults.
- Antidepressant medication use was higher for adults with at least some college education (14.3%) compared with those with a high school education (11.5%) or less (11.4%).
- From 2009–2010 through 2017–2018, the percentage of adults who used antidepressants increased among women, but not men.

In 2018, an estimated 7.2% of American adults had a major depressive episode in the past year (1). Depression is associated with diminished quality of life and increased disability (2). Antidepressants are one of the primary treatments for depression (3) and are among the most frequently used therapeutic medications in the United States (4).

This data brief provides recent prevalent estimates for antidepressant use among U.S. adults aged 18 and over, by age, sex, race and Hispanic origin, and education. Trends in antidepressant use over the decade from 2009–2010 through 2017–2018 are described.

During 2015–2018, what percentage of adults used antidepressants in the past 30 days?

During 2015–2018, 13.2% of adults used antidepressants in the past 30 days (Figure 1). Use was higher among women (17.7%) than men (8.4%).

![Figure 1](https://www.cdc.gov/nchs/data/databriefs/db377-tables-508.pdf#1)


NOTE: Access data table for Figure 1 at: https://www.cdc.gov/nchs/data/databriefs/db377-tables-508.pdf#1.

NCHS reports can be downloaded from: [https://www.cdc.gov/nchs/products/index.htm](https://www.cdc.gov/nchs/products/index.htm)
The percentage of antidepressant use increased with age, from 7.9% among adults aged 18–39 to 14.4% for those aged 40–59 to 19.0% for those aged 60 and over. A similar increase in the use of antidepressant medications by age was observed for men and women. Among men, use was lowest among those aged 18–39 (5.5%) and highest among those aged 60 and over (12.8%). Among women, use rose from 10.3% among those aged 18–39 to 24.3% among those aged 60 and over.

In all age groups, antidepressant use was higher among women compared with men.

**Was there a difference in antidepressant use in the past 30 days by race and Hispanic origin and sex?**

The percentage of antidepressant use in the past 30 days was highest among non-Hispanic white adults (16.6%) compared with non-Hispanic black (7.8%), Hispanic (6.5%), and non-Hispanic Asian (2.8%) adults (Figure 2). Use was also higher among non-Hispanic black and Hispanic adults compared with non-Hispanic Asian adults.

Among men, use was highest among non-Hispanic white (10.5%) compared with non-Hispanic black (5.0%), Hispanic (4.0%), and non-Hispanic Asian (2.1%) men. Use did not differ significantly among non-Hispanic black and Hispanic men, nor among non-Hispanic Asian and Hispanic men.

Figure 2. Percentage of adults aged 18 and over who used antidepressant medication over past 30 days, by race and Hispanic origin and sex: United States, 2015–2018

![](https://www.cdc.gov/nchs/data/databriefs/db377-tables-508.pdf#2)

NOTES: Persons who reported other race, or more than one race are not included in the figure. Access data table for Figure 2 at: https://www.cdc.gov/nchs/data/databriefs/db377-tables-508.pdf#2.

A similar pattern in antidepressant use by race and Hispanic origin was observed among women, although use was higher among Hispanic women (8.9%) than non-Hispanic Asian women (3.4%). Use was highest among non-Hispanic white women (22.3%).

The percentage of antidepressant use was higher among women than men for all race and Hispanic origin groups except among non-Hispanic Asian adults, where the difference did not reach significance.

Did antidepressant use in the past 30 days vary by level of education and sex?

Overall, the percentage of adults who took antidepressants in the past 30 days was lower among those with less than a high school (11.4%) or a high school (11.5%) education compared with those who attended college (14.3%) (Figure 3). This same pattern was observed among men, with the highest use among those with at least some college education (9.6%). Among women, antidepressant use did not differ significantly by level of education.

Across all levels of education, the percentage of antidepressant use was higher among women than men.

Figure 3. Percentage of adults aged 18 and over who used antidepressant medication over past 30 days, by education level and sex: United States, 2015–2018

1Significantly lower than some college or more.
2Significantly lower than women at the same education level.
NOTES: GED is general equivalency diploma. Access data table for Figure 3 at: https://www.cdc.gov/nchs/data/databriefs/db377-tables-508.pdf#3.
What were the trends in antidepressant use from 2009–2010 through 2017–2018?

Overall, during the decade between 2009–2010 and 2017–2018, antidepressant use increased from 10.6% to 13.8% (Figure 4).

A significant increasing trend was observed for women from 2009–2010 through 2017–2018 in antidepressant use during the past 30 days (from 13.8% to 18.6%), but not for men (from 7.1% to 8.7%). The percentage of women taking antidepressant medication was higher than in men at all points over the 10-year period.

Figure 4. Trends in antidepressant use over past 30 days among adults aged 18 and over, by sex: United States, 2009–2018

1Significantly increasing linear trend.
2Significantly higher percentage than men in all years.

NOTE: Access data table for Figure 4 at: https://www.cdc.gov/nchs/data/databriefs/db377-tables-508.pdf#4.
Summary

During 2015–2018, 13.2% of Americans aged 18 and over reported taking antidepressant medication in the past 30 days. Antidepressant use was higher among women than men in every age group. Use increased with age, in both men and women. Almost one-quarter of women aged 60 and over (24.3%) took antidepressants.

Antidepressant use was lowest among non-Hispanic Asian adults, and use among Hispanic and non-Hispanic black adults was lower than among non-Hispanic white adults. More than 1 in 5 non-Hispanic white women took antidepressants in the past 30 days (22.3%).

Overall and among men, antidepressant use was higher among those with some college education compared with those having a high school degree or less. Among women, the pattern was the same, although the differences did not reach significance.

Over the decade from 2009–2010 through 2017–2018, the percentage of adults using antidepressants increased. This rise in use was observed among women, but not men.

Definition

Antidepressant medication: During the household interview, participants were asked if they had taken any prescription drug in the past 30 days. Those who answered “yes” were asked to show the interviewer the medication containers of all prescription drugs. For each drug reported, the interviewer recorded the product’s complete name from the container or pharmacy list, if available. Prescription drugs were classified based on the three-level nested therapeutic classification scheme of Cerner Multum’s Lexicon (5). Antidepressants were identified using the second level of drug ingredient categorical codes, specifically code 249. A combination of bupropion and naltrexone, which is primarily used for obesity, overweight, and weight-related medical problems, was excluded.
Data source and methods

The National Health and Nutrition Examination Survey (NHANES) is a continuous survey conducted to assess the health and nutrition of Americans. The survey is designed to be nationally representative of the U.S. civilian noninstitutionalized population. Survey participants complete a household interview and visit a mobile examination center for a standardized physical examination.

NHANES data from 2009–2010 through 2017–2018 were used for these analyses (6). NHANES 2015–2018 data were used to estimate the proportion of antidepressant use by demographic characteristics. Five 2-year cycles (2009–2018) were used to test for trends. Of the 11,848 adults aged 18 and over who participated in the household interview during NHANES 2015–2018, 11,704 persons had information on prescription medication use. Interview weights, which account for the differential probabilities of selection, nonresponse, and noncoverage, were used for all analyses. Standard errors of the percentages were estimated using Taylor series linearization, a method that incorporates the sample design and weights.

Differences between men and women, and for race and Hispanic-origin subgroups, were tested using a $t$ statistic at the $p < 0.05$ significance level. Linear trends were tested using orthogonal contrast matrices. All differences reported are statistically significant unless otherwise indicated. Reported estimates meet NCHS reliability standards (7). Data analyses were performed using SAS version 9.4 (SAS Institute, Cary, N.C.) and SUDAAN version 11.1 (RTI International, Research Triangle Park, N.C.).

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References


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