

Wireless Substitution: Early Release of Estimates From the National Health Interview Survey, July-December 2019

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Overview

Since 2007, the National Health Interview Survey (NHIS) Early Release Program has regularly released preliminary estimates of the percentages of adults and children living in homes with only wireless telephones (also known as cellular telephones, cell phones, or mobile phones). These estimates are the most upto-date estimates available from the federal government concerning the size and characteristics of this population.

Estimates in this report are based on the second six months of 2019. During this time period, 61.3% of adults and 70.3% of children lived in wireless-only households.

In January 2019, the NHIS launched a redesigned questionnaire. As a result, NHIS data can now be used to estimate the percentage of adults who live in wireless-only households <u>and</u> have their own wireless telephone (wireless-only adults). For July-December 2019, 60.3% of adults were wireless-only adults. Four in five adults aged 25–29 (81.7%) and aged 30-34 (81.1%), and three in four adults renting their homes (75.5%), were wireless-only adults.

NHIS Early Release Program

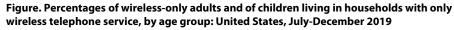
This report is published as part of the NHIS Early Release Program. Twice each year, the National Center for Health Statistics (NCHS) releases selected estimates of telephone coverage for the civilian noninstitutionalized U.S. population based on data from NHIS. The estimates are based on in-person interviews that are conducted throughout the year to collect information on health status, health-related behaviors, and health care access and utilization. The survey also includes information about household telephones and whether anyone in the household has a wireless telephone.

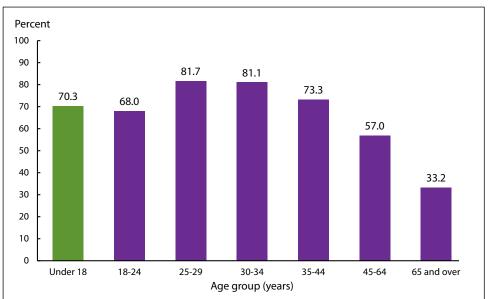
To provide access to the most recent information from NHIS, estimates using the July–December 2019 data are being released prior to final data editing and final weighting. These estimates should be considered preliminary. Estimates produced using the final data files may differ slightly from those presented here.

Background

Many health surveys, political polls, and other types of research are conducted using random-digit-dial (RDD) telephone surveys. Most survey research organizations include wireless telephone numbers when conducting RDD surveys. If they did not, the exclusion of households with only wireless telephones (along with the small proportion of households that have no telephone service) could bias results. This bias known as coverage bias—could exist if there are differences between persons with and without landline telephones for the substantive variables of interest.

Since 2003, NHIS has asked respondents about landlines and wireless telephones in their homes. Previous Early Release Program reports revealed that there are health-related differences between persons with and without landline telephones. For example, compared with adults living in landline households, adults living in wireless-only households were more likely to be current smokers and to have had at least one heavy drinking day in the past year. Adults living in wireless-only households





NOTE: Wireless-only adults are adults who live in households with only wireless telephone service and have their own wireless telephone. SOURCE: National Center for Health Statistics, National Health Interview Survey. were also less likely to have health insurance coverage, less likely to have a usual place to go for medical care, less likely to have received an influenza vaccination in the past year, and more likely to have experienced financial barriers to care.

The potential for coverage bias remains a real threat to health surveys that do not include sufficient representation of households with only wireless telephones. NCHS continues to publish estimates of the size and characteristics of this population so that survey research organizations can evaluate whether they have appropriately included this population in their health-related telephone surveys.

2019 NHIS Questionnaire Redesign

In 2019, the NHIS underwent a questionnaire redesign to better meet the needs of data users. The aims of the redesign were to improve the measurement of covered health topics, reduce respondent burden by shortening the length of the questionnaire, harmonize overlapping content with other federal surveys, establish a long-term structure of ongoing and periodic topics, and incorporate advances in survey methodology and measurement. The redesigned questionnaire has the potential to impact estimates of telephone ownership for several reasons.

First, prior to 2019, telephone ownership information was collected as part of the Family Core; a family respondent provided information for all persons living in responding families. Starting in 2019, the NHIS collects information for up-to-two persons living in each responding household. One "sample adult" aged 18 years or older and one "sample child" aged 17 years or younger (if any children live in the household) are randomly selected from each household following a brief initial interview that identifies everyone who usually lives or stays in the household. Information about the sample adult is collected from the sample adult him/herself unless s/he is physically or mentally unable to do so, in which case a knowledgeable proxy can answer for the

sample adult. Information about the sample child is collected from a parent or adult who is knowledgeable about and responsible for the health care of the sample child. This respondent may or may not also be the sample adult.

Second, the wireless telephone questions were modified, but the landline telephone question was not. To determine whether the sampled persons lived in a household with a landline telephone, the respondent was asked if there was "at least one phone inside your home that is currently working and is not a cell phone." To avoid possible confusion with cordless landline telephones, the word "wireless" was not used in the survey. This question was asked only once, in whichever interview (sample adult or sample child) came first.

In 2019, rather than asking family respondents whether "you or anyone in your family has a working cellular telephone," the NHIS now asks sample adults whether they "have a working cell phone," and if not, whether they "live with anyone who has a working cell phone." This change permits the identification of adults living in wireless-only households (that is, households without landlines within which at least one household member has a working cell phone) and of wireless-only adults (that is, adults who live in a wireless-only household and have their own cell phone). Respondents for sample children are only asked if the child lives "with anyone who has a working cell phone," and only if the wireless status of the household is not yet known from the sample adult interview.

In 2019, an additional question was included for sample adults who have a cell phone and live in households with landline telephones. The sample adult was asked to consider "all the telephone calls that you answer" and to report whether "all or almost all [are] on your cell phones, some [are] on your cell phone and some on your home phone, or very few or none [are] on your cell phones." This question is a modified version of a question that, prior to 2019, was used to identify wireless-mostly households (rather than adults) based on calls received (rather than answered). The modified question permits the identification of "wirelessmostly" adults—defined as adults with both landline and cellular telephones who

answer all or almost all calls on cell phones. Landline-mostly adults and dualusers can be similarly identified.

Third, the telephone ownership questions were moved from near the beginning of the survey to near the end of the survey. Breakoffs that occur late in the interview may result in interviews that are sufficiently complete for most purposes but are missing data for telephone ownership. These data were missing for 3.9% of sample adults and 1.8% of sample children in the second six months of 2019.

Finally, NHIS uses sampling weights to produce representative national estimates. The base weight is equal to the inverse of the probability of selection of the sample address. These weights are adjusted for household and person-level nonresponse. In 2019, the adjustment method changed to incorporate morerobust multilevel models predictive of response propensity. Nonresponseadjusted weights are further calibrated to U.S. Census Bureau population projections and American Community Survey (ACS) one-year estimates for age, sex, race and ethnicity, educational attainment, Census division, and Metropolitan Statistical Area status. Prior to 2019, calibration was only to age, sex, and race/ethnicity projections.

These changes in the weighting approach and questionnaire design have the potential to impact direct comparisons between estimates for 2019 and earlier years. An evaluation of these changes on key estimates from the NHIS is available from the Early Release Program homepage.

The increase in the prevalence of adults living in wireless-only households—from 56.0% in 2018 to 60.2% in 2019—is a continuation of the increasing trend that has been seen over time. Although some of this observed increase may be due to a questionnaire design effect, the evaluation showed that most of this increase reflects actual change over time. On the other hand, the observed decreases in the prevalence of adults living in phoneless householdsfrom 3.0% in 2018 to 1.0% in 2019—and in landline-only households—from 4.1% in 2018 to 2.4% in 2019—are likely to be artifacts of the questionnaire redesign and not true changes over time.

Methods

From July through December 2019, information on household telephone status was obtained for 14,725 civilian adults aged 18 and over and 4,375 children under age 18.

For this report, the NHIS sampling weights were further adjusted to account for telephone-question nonresponse. The weights for cases with known telephone ownership status were recalibrated to the Census projections and ACS estimates described earlier. Point estimates and 95% confidence intervals were calculated using SUDAAN software (RTI International, Research Triangle Park, NC) to account for the complex sample design of NHIS.

Differences between percentages were evaluated using two-sided significance tests at the 0.05 level. All differences discussed are statistically significant unless otherwise noted. Lack of comment regarding the difference between any two estimates does not necessarily mean that the difference was tested and found to be not significant. Because of small sample sizes, estimates based on less than 1 year of data may have large confidence intervals, and caution should be used in interpreting such estimates.

Household Telephone Status

In the second six months of 2019, 61.3% of adults (nearly 154 million) and 70.3% of children (approximately 51 million) lived in households that did not have a landline telephone but did have at least one wireless telephone (**Table 1**).

The percentages of adults and children living in wireless-only households have been generally increasing since 2003. Consistent with that trend, there was a statistically significant increase (2.1 percentage points) from the first 6 months to the second 6 months of 2019 in the percentage of adults living in wirelessonly households. However, across that same time period, no significant change was observed for children.

Approximately 1.1% of adults and 1.3% of children (2.8 and 0.9 million, respectively) lived in phoneless households; that is, they had no reported telephone service (neither wireless nor landline) in the second six months of 2019.

Wireless-only Adults

More than one-half of adults were wireless-only (60.3%, 151 million); that is, they personally had a wireless telephone and lived in a household that did not have a landline. The percentage of adults who were wireless-only is shown, by selected demographic characteristics, in **Table 2**. Confidence intervals for these percentages are shown in **Table 3**. For July–December 2019:

- Four in five adults aged 25–29 (81.7%) and aged 30-34 (81.1%) were wireless-only (**Figure**). The percentages for those age groups are greater than for adults aged 18–24 (68.0%). The percentage of adults who were wireless-only decreased as age increased beyond 35 years: 73.3% for those 35–44; 57.0% for those 45– 64; and 33.2% for those 65 and over.
- Hispanic adults (70.2%) were more likely than non-Hispanic white (57.8%), non-Hispanic black (60.4%), or non-Hispanic Asian (56.8%) adults to be wireless-only.
- Adults living in poverty (69.2%) and near poverty (64.6%) were more likely than higher income adults (58.8%) to be wireless-only. (Footnote 3 in **Table** 2 gives definitions of these categories.)
- Adults living in the Midwest (63.4%), South (64.5%), and West (63.5%) were more likely than those living in the Northeast (43.7%) to be wirelessonly.
- Three in four adults living in rented homes (75.5%) were wireless-only. This percentage is higher than the percentage for adults living in homes owned by a household member (53.0%).

Table 2 also includes estimates of thepercentage of adults who were wireless-mostly, landline-mostly, dual users,landline-only, and phoneless, by selected

demographic characteristics. Confidence intervals for these percentages are shown in **Table 3**.

State Estimates

The prevalence of adults and children living in wireless-only households varies across states. For more information about prevalence estimates at the state level, see

 NCHS. Modeled estimates (with standard errors) of the percent distribution of household telephone status for adults aged 18 and over and for children under age 18, by state: United States, 2018. December 2019. Available from:

https://www.cdc.gov/nchs/data/nhis/ earlyrelease/Wireless_state_201912-508.pdf.

Other NHIS Early Release Program Products

This report is published as part of the NHIS Early Release Program. Earlier reports on wireless substitution are at https://www.cdc.gov/nchs/nhis/erwireless subs.htm. Reports based on data from 2003-2018 include details about the aforementioned health-related differences between persons with and without landline telephones.

Two additional products are published quarterly as part of the NHIS Early Release Program. *Early Release of Selected Estimates Based on Data From the National Health Interview Survey* provides estimates for selected key measures of health. In addition, *Health Insurance Coverage: Early Release of Estimates From the National Health Interview Survey* provides estimates regarding health insurance coverage. Other Early Release Program products are released as needed.

In addition to these products, preliminary microdata files containing selected NHIS variables are produced as part of the ER Program. The telephone service use variables presented in this report have been included in those microdata files. NHIS data users can analyze these files through the NCHS Research Data Centers (https://www.cdc.gov/rdc/) without having to wait for the final annual NHIS microdata files to be released.

For more information about NHIS and the NHIS Early Release Program, or to find other Early Release Program products, see

 NHIS home page at https://www.cdc.gov/nchs/nhis.htm.

• Early Release Program home page at https://www.cdc.gov/nchs/nhis/relea ses.htm.

Suggested Citation

Blumberg SJ, Luke JV. Wireless substitution: Early release of estimates from the National Health Interview Survey, July-December 2019. National Center for Health Statistics. September 2020. Available from: https://www.cdc.gov/nchs/nhis.htm.

Table 1. Percent distribution of household telephone status for adults and children: United States, 2019

Date of interview	Number of persons (unweighted)	Wireless-only household	Landline with wireless	Landline-only household ¹	Phoneless	Landline with unknown wireless	Wireless with unknown landline	Total
Adults								
inuary–June 2019	16,577	59.2	37.2	2.5	1.0	0.0	0.1	100.0
95% confidence interval		57.97-60.37	35.99-38.43	2.30-2.79	0.78-1.18	0.02-0.09	0.03-0.12	
ıly-December 2019	14,725	61.3	35.2	2.4	1.1	0.0	0.1	100.0
95% confidence interval	•••	59.66-62.85	33.71-36.62	2.05-2.69	0.86-1.28	0.01-0.10	0.06-0.31	
Children								
inuary–June 2019	4,800	70.5	28.0	0.6	1.0	-	_	100.0
95% confidence interval		68.67-72.19	26.33-29.68	0.34-1.04	0.68-1.39	-	_	
ıly-December 2019	4,375	70.3	27.7	0.6	1.3	-	0.1	100.0
95% confidence interval		68.10-72.37	25.76-29.64	0.31-1.29	0.95-1.82	-	0.02-0.38	

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

- Quantity zero.

¹Landline-only refers to households with a landline telephone in which no residents have a working cell phone. In earlier reports, this category was labeled as "landline without wireless."

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

SOURCE: National Center for Health Statistics, National Health Interview Survey.

Wireless-mostly Landline-mostly Phoneless Wireless-only Landline-only Demographic characteristic adults adults Dual-users adults adults adults Unknown¹ Total Total 60.3 18.6 9.7 5.5 3.5 1.9 0.4 100.0 Age (years) 18-24 68.0 20.3 4.7 1.6 1.6 2.8 1.0 100.0 25-29 81.7 12.4 2.2 0.2 0.8 2.5 0.2 100.0 30-34 81.1 11.8 2.9 1.5 0.8 1.5 0.4 100.0 35-44 73.3 18.5 4.6 0.8 1.0 1.4 0.3 100.0 45-64 2.3 57.0 23.3 11.4 4.1 1.5 0.4 100.0 65 and over 33.2 16.2 19.8 17.6 10.7 2.3 0.1 100.0 Race/ethnicity Hispanic or Latino, any race(s) 70.2 16.3 5.8 1.8 1.9 3.5 0.5 100.0 Non-Hispanic white, single race 57.8 18.6 4.0 100.0 11.2 7.1 1.1 0.2 Non-Hispanic black, single race 60.4 20.6 7.5 4.4 3.8 2.4 0.8 100.0 Non-Hispanic Asian, single race 56.8 22.0 10.5 2.4 2.1 4.6 1.5 100.0 Non-Hispanic other races and ** 65.0 18.2 6.1 3.6 3.3 -100.0 multiple races Sex Male 61.7 19.4 8.6 4.7 3.2 1.9 0.6 100.0 Female 58.9 18.0 10.7 6.4 3.9 1.9 0.3 100.0 Education Some high school or less 7.5 7.2 0.7 61.7 11.8 6.1 5.1 100.0 High school graduate or GED² 58.3 17.4 9.5 7.0 4.6 2.3 0.7 100.0 Some post-high school, no degree 61.8 19.6 9.5 5.2 2.6 1.0 0.2 100.0 4-year college degree or higher 59.8 21.9 11.1 4.1 1.8 1.0 0.2 100.0 Family poverty status³ Poor 69.2 11.4 4.1 3.9 6.4 4.6 0.3 100.0 Near-poor 64.6 12.6 7.3 6.5 5.6 2.6 0.8 100.0 58.8 21.5 10.9 5.4 2.2 1.0 0.1 100.0 Not-poor Geographic region⁴ Northeast 43.7 24.5 7.3 5.5 100.0 15.8 2.2 1.0 Midwest 63.4 15.8 6.3 3.4 1.3 0.1 100.0 9.7 South 64.5 17.6 7.6 5.3 3.0 1.7 0.3 100.0 2.5 63.5 8.3 4.0 3.0 0.3 100.0 West 18.3 Metropolitan statistical area status Metropolitan 60.8 19.4 9.5 4.9 3.1 1.8 0.5 100.0 Not metropolitan 57.3 14.4 10.8 8.9 6.2 2.3 0.1 100.0

Table 2. Percent distribution of personal telephone status for adults, by selected demographic characteristics: United States, July-December 2019

See footnotes at end of table.

Demographic characteristic	Wireless-only adults	Wireless-mostly adults	Dual-users	Landline-mostly adults	Landline-only adults	Phoneless adults	Unknown ¹	Total
Home ownership status⁵								
Owned or being bought	53.0	21.9	12.6	7.2	3.8	1.2	0.3	100.0
Renting	75.5	11.8	4.0	2.1	3.0	3.2	0.4	100.0
Other arrangement	62.7	19.7	5.7	4.0	**	4.2	-	100.0
Number of adults in survey sample (unweighted)	8,699	2,540	1,514	1,038	652	241	41	14,725

Table 2. Percent distribution of personal telephone status for adults, by selected demographic characteristics: United States, July-December 2019—Continued

** Estimate does not meet NCHS standards of reliability as specified in National Center for Health Statistics Data Presentation Standards for Proportions (available from: https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf).

¹Unknown includes adults with either unknown landline, unknown wireless, or unknown frequency-of-use status (for adults with both landline and wireless telephones). Adults with both unknown landline and unknown wireless status are excluded from the analysis.

²GED is General Educational Development high school equivalency diploma.

³Based on family income and family size using the U.S. Census Bureau's poverty thresholds. "Poor" persons are defined as those below the poverty threshold. "Near-poor" persons have incomes of 100% to less than 200% of the poverty thresholds. "Poor" persons have incomes of 200% of the poverty threshold or greater. Early Release estimates stratified by poverty status are based on reported income only and may differ from similar estimates produced later that are based on both reported and imputed income. Household poverty status was unknown for 7.6% of adults in these analyses. NCHS imputes income when income is unknown, but the imputed income file is not available until the annual National Health Interview Survey microdata are released.

⁴In the geographic classification of the U.S. population, states are grouped into the following four regions used by the U.S. Census Bureau: *Northeast* includes Connecticut, Maine, Massachusetts, New Hampshire, New York, Pennsylvania, Rhode Island, and Vermont; *Midwest* includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; *South* includes Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and *West* includes Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Korn and Graubard 95% confidence intervals for these estimates are presented in Table 3.

SOURCE: National Center for Health Statistics, National Health Interview Survey.

Table 3. Korn and Graubard 95% confidence intervals for percent distributions in Table 2

Age (years)	Demographic characteristic	Wireless-only adults	Wireless-mostly adults	Dual-users	Landline-mostly adults	Landline-only adults	Phoneless adults	Unknown ¹	Total
3-24 63.472.5 17.0-23.8 3.2.6.5 0.8.2.9 0.7.3.0 1.9-4.0 0.4.2.1 3-24 77.9.85.1 9.8-15.3 0.9-4.3 0.0-0.8 0.3.1.6 0.92.4 0.1-1.3 3-34 77.9.55 16.7.20.4 3.7.5.7 0.5.1.4 0.6.1.7 0.8.2.2 0.10.8 5-64 54.8.59.2 21.7.24.9 10.3.12.5 3.3.5.0 1.8.2.9 1.1.2.0 0.20.8 5 and over 312.35.3 14.9-17.5 18.4.21.3 16.319.0 9.6-11.9 1.7.3.1 0.10.3 spanic or Latino, any race(s) 67.47.3.0 14.5-18.2 4.7.7.1 1.2.2.5 1.3.2.6 2.6-4.7 0.1-1.1 on-thispanic black single race 57.4-63.4 183.320.1 5.9.9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3.2.0 on-thispanic black single race 57.4-63.4 183.320.1 5.9.9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3-2.0 on-thispanic black single race 57.4-63.4 183.320.1 5.7.7.1 1.4-4.7 1.5-2.3 </td <td>otal</td> <td>58.7-61.8</td> <td>17.5-19.8</td> <td>9.1-10.3</td> <td>5.1-6.1</td> <td>3.2-3.9</td> <td>1.6-2.2</td> <td>0.3-0.6</td> <td></td>	otal	58.7-61.8	17.5-19.8	9.1-10.3	5.1-6.1	3.2-3.9	1.6-2.2	0.3-0.6	
3-24 63.472.5 17.0-23.8 3.2.6.5 0.8.2.9 0.7.3.0 1.9-4.0 0.4.2.1 3-24 77.9.85.1 9.8-15.3 0.9-4.3 0.0-0.8 0.3.1.6 0.92.4 0.1-1.3 3-34 77.9.55 16.7.20.4 3.7.5.7 0.5.1.4 0.6.1.7 0.8.2.2 0.10.8 5-64 54.8.59.2 21.7.24.9 10.3.12.5 3.3.5.0 1.8.2.9 1.1.2.0 0.20.8 5 and over 312.35.3 14.9-17.5 18.4.21.3 16.319.0 9.6-11.9 1.7.3.1 0.10.3 spanic or Latino, any race(s) 67.47.3.0 14.5-18.2 4.7.7.1 1.2.2.5 1.3.2.6 2.6-4.7 0.1-1.1 on-thispanic black single race 57.4-63.4 183.320.1 5.9.9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3.2.0 on-thispanic black single race 57.4-63.4 183.320.1 5.9.9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3-2.0 on-thispanic black single race 57.4-63.4 183.320.1 5.7.7.1 1.4-4.7 1.5-2.3 </td <td>Age (years)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Age (years)								
0-34 78.483.5 9.91.38 1.8.45 0.72.9 0.3.16 0.92.4 0.1-1.3 5-64 548.59.2 21.724.9 10.3.12.5 33.5.0 18.2.9 11.2.0 0.20.8 5 and over 31.2.35.3 14.9-17.5 16.4.21.3 163.19.0 9.6-11.9 1.7.21 0.1-0.3 S and over 31.2.35.3 14.9-17.2 18.4.21.3 163.19.0 9.6-11.9 1.7.21 0.1-0.3 S and over 51.9.5 17.4-19.9 10.4.12.0 6.4.7.8 3.5.46 0.81.4 0.10.4 on-Hispanic whise, single race 57.4-63.4 18.3.26.1 8.1.35 1.4.3.7 1.2.3.4 2.5.7 0.5.3.3 on-Hispanic whise, single race 57.4-63.4 18.3.26.1 8.8.7.0 3.3.2.2 3.2.10.5 1.8.6.2 1.4.6.4 on-Hispanic whise, single race 57.4-63.4 18.7.2.3 1.7.9.2.4 1.8.2.2.4 0.3.0.9 on-Hispanic whise, single race 57.4-63.4 17.9.2.9 9.9.1.6	18–24	63.4-72.5	17.0-23.8	3.2-6.5	0.8-2.9	0.7-3.0	1.9-4.0	0.4-2.1	
9-34 78.483.5 9.91.38 1.84.5 0.72.9 0.31.6 0.92.4 0.1-1.3 5-64 54.859.2 21.724.9 10.312.5 3.35.0 18.2.9 11.2.0 0.20.8 Sand over 312.35.3 14.917.5 16.421.3 16.319.0 9.6-11.9 1.7-3.1 0.1-0.3 Sand over 312.35.3 14.917.5 18.421.3 16.319.0 9.6-11.9 1.7-3.1 0.1-0.3 Sand over 312.35.3 14.917.5 16.77.1 12.2.5 1.3.5.6 2.6.4.7 0.1.1.1 On-Hispanic white, single race 57.4.63.4 18.3.26.1 8.1.3.5 1.4.5.7 2.5.5.4 16.3.6 0.32.0 On-Hispanic whise, single race 57.4.63.4 18.3.26.1 8.1.3.5 1.4.5.7 2.5.4 1.6.6.4 On-Hispanic whise, single race 57.4.63.4 18.3.26.1 8.1.3.5 1.4.5.7 2.5.4 1.6.6.4 0.4.6.3 0.3.2.0 <	25–29	77.9-85.1	9.8-15.3	0.9-4.3	0.0-0.8	0.3-1.9	1.4-4.1	0.0-0.7	
5-64 548-592 21.7-249 10.3-12.5 3.3-5.0 1.8-2.9 1.1-2.0 0.2-0.8 Sand over 31.2-35.3 14.9-17.5 18.4-21.3 16.3-19.0 9.6-11.9 1.7-3.1 0.1-0.3 spanic or Latino, any race(s) 67.4-73.0 14.5-18.2 4.7-7.1 1.2-2.5 1.3-2.6 2.6-4.7 0.1-1.1 on-Hispanic black, single race 57.4-63.4 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-7.7 0.5-3.3 on-Hispanic black, single race 50.7-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-7.7 0.5-3.3 on-Hispanic black, single race 50.7-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-7.7 0.5-3.3 on-Hispanic black, single race 50.7-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-7.7 0.5-3.3 on-Hispanic black, single race 50.7-62.8 18.3-26.1 8.1-16.5 2.7-7.7 3.4-4.4 1.5-2.3 0.3-0.9 male 57.3-60.5 <t< td=""><td>0–34</td><td>78.4-83.5</td><td>9.9-13.8</td><td>1.8-4.5</td><td>0.7-2.9</td><td>0.3-1.6</td><td>0.9-2.4</td><td>0.1-1.3</td><td></td></t<>	0–34	78.4-83.5	9.9-13.8	1.8-4.5	0.7-2.9	0.3-1.6	0.9-2.4	0.1-1.3	
Sand over 31.2-35.3 14.9-17.5 18.4-21.3 16.3-19.0 9.6-11.9 1.7-3.1 0.1-0.3 Bace/ethnicity ispanic or Lifton, any race(s) 67.473.0 14.5-18.2 47.77.1 1.2-2.5 1.3-2.6 2.6-4.7 0.1-1.1 On-Hispanic black, single race 57.4-63.4 18.3-23.0 5.9-9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3-2.0 On-Hispanic black, single race 57.4-63.4 18.3-23.0 5.9-9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3-2.0 On-Hispanic black, single race 57.4-63.4 18.3-23.0 5.9-9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3-2.0 On-Hispanic black, single race 57.4-63.4 18.3-20.0 1.8-6.2 1.4-6.4 On-Hispanic black single race 59.8-63.7 1.7.9-0.9 7.7.9.6 5.7.7.1 3.4-4.4 1.5-2.4 0.3-0.9	5–44	71.0-75.5	16.7-20.4	3.7-5.7	0.5-1.4	0.6-1.7	0.8-2.2	0.1-0.8	
Sand over 31.2.35.3 14.9-17.5 18.4.21.3 16.3-19.0 9.6-11.9 1.7-3.1 0.1-0.3 Bace/ethnicity ispanic or lation, any race(s) 57.47.30 14.5-18.2 4.7-7.1 1.2-2.5 1.3-2.6 2.6-4.7 0.1-1.1 On-Hispanic white, single race 56.1-59.5 17.4-19.9 10.4-12.0 6.4-7.8 3.5-4.6 0.8-1.4 0.1-0.4 On-Hispanic Make, single race 50.7-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-77 0.5-3.3 On-Hispanic Asian, single race 50.7-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-77 0.5-3.3 On-Hispanic Asian, single race 50.7-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-77 0.5-3.3 On-Hispanic Asian, single race 50.8-63.7 17.9-20.9 7.7-9.6 4.1-5.3 2.7-3.7 1.5-2.4 0.3-0.9 Isolation Education Inducation Inducation Inducation Inducation Inducation Inducation Inducation Inducation Inducation	5–64	54.8-59.2	21.7-24.9	10.3-12.5	3.3-5.0	1.8-2.9	1.1-2.0	0.2-0.8	
Spanic vities, any face(s) 674-73.0 145-18.2 4.7.7.1 12.2.5 13.2.6 2.6.4.7 0.1.1.1 on-Hispanic white, single race 561-59.5 17.4.199 10.4.12.0 64-7.8 3.5.4.6 0.8.1.4 0.1.10.4 on-Hispanic Main, single race 574-63.4 18.3-20.0 5.9-9.2 3.4-5.7 2.5.5.4 1.6.3.6 0.3-2.0 on-Hispanic Main, single race 507-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2.3.4 2.5.7.7 0.5-3.3 multiple races 58 7.3-60.5 1.6.6-19.4 9.9-11.6 5.7-7.1 3.4.4.4 1.5-2.3 0.1-0.4 Education Started 5.7-7.1 3.4.4.4 1.5-2.3 0.1-0.4 ore post-high school or less 58.1-65.2 9.6-14.2 5.3-10.1 4.6-7.8 5.5-9.2 3.9-6.6 0.2-1.7 ight school graduate or GED ² 56.1-60.5 15.9-19.0 8.3-10.9 6.2-8.2,9 2.9-5.1 0.6-1.5 0.1-0.4 <td>5 and over</td> <td>31.2-35.3</td> <td>14.9-17.5</td> <td>18.4-21.3</td> <td>16.3-19.0</td> <td>9.6-11.9</td> <td>1.7-3.1</td> <td>0.1-0.3</td> <td></td>	5 and over	31.2-35.3	14.9-17.5	18.4-21.3	16.3-19.0	9.6-11.9	1.7-3.1	0.1-0.3	
on-Hispanic white, single race 561-595 17,4-199 10,4-120 64.7.8 35.4.6 0.8-1.4 0.1-0.4 on-Hispanic black, single race 574-63.4 18.3-23.0 5.9-9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3-2.0 on-Hispanic black, single race 507-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-7.7 0.5-3.3 on-Hispanic other races and 58.8-70.9 13.9-23.2 3.2-10.5 1.8-6.2 1.4-6.4 multiple races Sex - - 1.8-6.2 1.4-6.4 senale 57.3-60.5 16.6-19.4 9.9-11.6 5.7-7.1 3.4-4.4 1.5-2.4 0.3-0.9 mels bichool or less 58.1-65.2 9.6-14.2 5.3-10.1 4.6-7.8 5.5-9.2 3.9-6.6 0.2-1.7 igh school or degree 58.1-65.5 1.5.9-19.0 8.3-10.0 6.2-8.0 3.9-5.4 1.8-3.0 0.4-1.3 igh scho	Race/ethnicity								
on-Hispanic white, single race 561-595 17,4-199 10,4-120 64.7.8 35.4.6 0.8-1.4 0.1-0.4 on-Hispanic black, single race 574-63.4 18.3-23.0 5.9-9.2 3.4-5.7 2.5-5.4 1.6-3.6 0.3-2.0 on-Hispanic black, single race 507-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-7.7 0.5-3.3 on-Hispanic other races and 58.8-70.9 13.9-23.2 3.2-10.5 1.8-6.2 1.4-6.4 multiple races Sex - - 1.8-6.2 1.4-6.4 senale 57.3-60.5 16.6-19.4 9.9-11.6 5.7-7.1 3.4-4.4 1.5-2.4 0.3-0.9 mels bichool or less 58.1-65.2 9.6-14.2 5.3-10.1 4.6-7.8 5.5-9.2 3.9-6.6 0.2-1.7 igh school or degree 58.1-65.5 1.5.9-19.0 8.3-10.0 6.2-8.0 3.9-5.4 1.8-3.0 0.4-1.3 igh scho	ispanic or Latino, any race(s)	67.4-73.0	14.5-18.2	4.7-7.1	1.2-2.5	1.3-2.6	2.6-4.7	0.1-1.1	
on-Hispanic black, single race 57.4.63.4 18.3-23.0 5.9-9.2 3.4.5.7 2.5.5.4 1.6.3.6 0.3-2.0 on-Hispanic Asian, single race 507.62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5.7.7 0.5-3.3 on-Hispanic other races and 58.8-70.9 13.9-23.2 3.2-10.5 1.8-6.2 1.4-6.4	on-Hispanic white, single race	56.1-59.5	17.4-19.9	10.4-12.0			0.8-1.4	0.1-0.4	
on-Hispanic Asian, single race on-Hispanic other races and multiple races 50.7-62.8 18.3-26.1 8.1-13.5 1.4-3.7 1.2-3.4 2.5-7.7 0.5-3.3 on-Hispanic other races and multiple races 58.8-70.9 13.9-23.2 3.2-10.5 1.8-6.2 1.4-6.4 Sex		57.4-63.4	18.3-23.0	5.9-9.2		2.5-5.4	1.6-3.6	0.3-2.0	
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Sex Sex Jale 598-63.7 17.9-20.9 7.7-9.6 4.1-5.3 2.7-3.7 1.5-2.4 0.3-0.9 Education Education S8.1-65.2 9.6-14.2 5.3-10.1 4.6-7.8 5.5-9.2 3.9-6.6 0.2-1.7 ome high school or less 5.81-65.2 9.6-14.2 5.3-10.1 4.6-7.8 5.5-9.2 3.9-6.6 0.2-1.7 ome post-high school or less 5.81-65.2 9.6-14.2 5.3-10.1 4.6-7.8 5.5-9.2 3.9-6.6 0.2-1.7 ome post-high school or less 5.81-65.2 9.6-14.2 5.3-10.1 4.6-7.8 5.5-9.2 3.9-6.6 0.2-1.7 of colspan="6">colspan="6" colspan="6" <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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emale 573-60.5 16.619.4 9.911.6 5.7.1 3.4.4.4 1.5-2.3 0.1-0.4 Education	Sex								
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borne high school or less 58.1-65.2 9.6-14.2 5.3-10.1 4.6-7.8 5.5-9.2 3.9-6.6 0.2-1.7 igh school graduate or GED ² 56.1-60.5 15.9-19.0 8.3-10.9 6.2-8.0 3.9-5.4 1.8-3.0 0.4-1.3 ome post-high school, no degree 594-64.3 17.6-21.8 8.5-10.6 4.5-5.9 2.0-3.2 0.7-1.3 0.1-0.5 year college degree or higher 57.8-61.7 2.03-22.6 0.2-12.1 3.6-4.7 1.5-2.3 0.6-1.5 0.1-0.4 or 66.2-72.0 9.4-13.7 3.0-5.5 2.9-5.1 5.0-8.1 3.5-6.0 0.0-1.2 ot-poor 66.2-67.0 10.8-14.5 6.1-8.6 5.4-7.8 4.7-6.6 1.9-3.6 0.4-1.6 ot-poor 57.0-60.5 20.1-22.9 10.1-11.7 4.9-6.0 1.9-2.6 0.8-1.3 0.1-0.3 ot-poor 60.3-66.5 1.3-1.8 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 outh 62.2-66.7 1.5.4-20.0 6.7-8.5 4.6-6.5 1.3-3.5	emale	57.3-60.5	16.6-19.4	9.9-11.6	5.7-7.1	3.4-4.4	1.5-2.3	0.1-0.4	
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Some post-high school, no degree 59.4-64.3 17.6-21.8 8.5-10.6 4.5-5.9 2.0-3.2 0.7-1.3 0.1-0.5 year college degree or higher 57.8-61.7 20.3-23.6 10.2-12.1 3.6-4.7 1.5-2.3 0.6-1.5 0.1-0.4 Family poverty status ³ oor 66.2-72.0 9.4-13.7 3.0-5.5 2.9-5.1 5.0-8.1 3.5-6.0 0.0-1.2 ear-poor 62.0-67.0 10.8-14.5 6.1-8.6 5.4-7.8 4.7-6.6 1.9-3.6 0.4-1.6 ot-poor 57.0-60.5 20.1-22.9 10.1-11.7 4.9-6.0 1.9-2.6 0.8-1.3 0.1-0.3 Geographic region ⁴ Cortheast 41.7-45.7 22.7-26.4 14.4-17.3 6.2-8.5 4.6-6.5 1.3-3.5 0.5-1.8 Idwest 60.3-66.5 13.5-18.3 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 outh 62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7	ome high school or less	58.1-65.2	9.6-14.2	5.3-10.1	4.6-7.8	5.5-9.2	3.9-6.6	0.2-1.7	
year college degree or higher 57.8-61.7 20.3-23.6 10.2-12.1 3.6-4.7 1.5-2.3 0.6-1.5 0.1-0.4 Family poverty status ³ oor 66.2-72.0 9.4-13.7 3.0-5.5 2.9-5.1 5.0-8.1 3.5-6.0 0.0-1.2 ear-poor 62.0-67.0 10.8-14.5 6.1-8.6 5.4-7.8 4.7-6.6 1.9-3.6 0.4-1.6 ot-poor 57.0-60.5 20.1-22.9 10.1-11.7 4.9-6.0 1.9-2.6 0.8-1.3 0.1-0.3 Geographic region ⁴ ortheast 41.7-45.7 22.7-26.4 14.4-17.3 62-8.5 4.6-6.5 1.3-3.5 0.5-1.8 lidwest 60.3-66.5 13.5-18.3 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 outh 62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7 (est 61.4-65.6 16.8-19.9 7.5-9.3 3.3-4.8 2.5-3.6 1.8-3.4 0.2-0.6 59.0-62.	igh school graduate or GED ²	56.1-60.5	15.9-19.0	8.3-10.9	6.2-8.0	3.9-5.4	1.8-3.0	0.4-1.3	
year college degree or higher 57.8-61.7 20.3-23.6 10.2-12.1 3.6-4.7 1.5-2.3 0.6-1.5 0.1-0.4 Family poverty status ³ oor 66.2-72.0 9.4-13.7 3.0-5.5 2.9-5.1 5.0-8.1 3.5-6.0 0.0-1.2 ear-poor 62.0-67.0 10.8-14.5 6.1-8.6 5.4-7.8 4.7-6.6 1.9-3.6 0.4-1.6 ot-poor 57.0-60.5 20.1-22.9 10.1-11.7 4.9-6.0 1.9-2.6 0.8-1.3 0.1-0.3 Geographic region ⁴ ortheast 41.7-45.7 22.7-26.4 14.4-17.3 62-8.5 4.6-6.5 1.3-3.5 0.5-1.8 lidwest 60.3-66.5 13.5-18.3 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 outh 62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7 (est 61.4-65.6 16.8-19.9 7.5-9.3 3.3-4.8 2.5-3.6 1.8-3.4 0.2-0.6 59.0-62.	ome post-high school, no degree	59.4-64.3	17.6-21.8	8.5-10.6	4.5-5.9	2.0-3.2	0.7-1.3	0.1-0.5	
bor 66.2-72.0 9.4-13.7 3.0-5.5 2.9-5.1 5.0-8.1 3.5-6.0 0.0-1.2 ear-poor 62.0-67.0 10.8-14.5 6.1-8.6 5.4-7.8 4.7-6.6 1.9-3.6 0.4-1.6 ot-poor 57.0-60.5 20.1-22.9 10.1-11.7 4.9-6.0 1.9-2.6 0.8-1.3 0.1-0.3 Geographic region ⁴ ortheast 41.7-45.7 22.7-26.4 14.4-17.3 6.2-8.5 4.6-6.5 1.3-3.5 0.5-1.8 idwest 60.3-66.5 13.5-18.3 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 outh 62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7 Metropolitan statistical area status etropolitan statistical area status		57.8-61.7		10.2-12.1	3.6-4.7	1.5-2.3	0.6-1.5	0.1-0.4	
ear-poor 62.0-67.0 10.8-14.5 6.1-8.6 5.4-7.8 4.7-6.6 1.9-3.6 0.4-1.6 ot-poor 57.0-60.5 20.1-22.9 10.1-11.7 4.9-6.0 1.9-2.6 0.8-1.3 0.1-0.3 Geographic region ⁴ ortheast 41.7-45.7 22.7-26.4 14.4-17.3 6.2-8.5 4.6-6.5 1.3-3.5 0.5-1.8 lidwest 60.3-66.5 13.5-18.3 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 outh 62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7 (est 61.4-65.6 16.8-19.9 7.5-9.3 3.3-4.8 2.5-3.6 1.8-3.4 0.2-0.6 Metropolitan statistical area status letropolitan	Family poverty status ³								
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Geographic region ⁴ ortheast 41.7-45.7 22.7-26.4 14.4-17.3 6.2-8.5 4.6-6.5 1.3-3.5 0.5-1.8 lidwest 60.3-66.5 13.5-18.3 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 buth 62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7 Vest 61.4-65.6 16.8-19.9 7.5-9.3 3.3-4.8 2.5-3.6 1.8-3.4 0.2-0.6 Metropolitan statistical area status sector 4.4-5.5 2.7-3.4 1.5-2.2 0.3-0.7	ear-poor	62.0-67.0	10.8-14.5	6.1-8.6	5.4-7.8	4.7-6.6	1.9-3.6	0.4-1.6	
ortheast 41.7-45.7 22.7-26.4 14.4-17.3 6.2-8.5 4.6-6.5 1.3-3.5 0.5-1.8 lidwest 60.3-66.5 13.5-18.3 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 outh 62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7 /est 61.4-65.6 16.8-19.9 7.5-9.3 3.3-4.8 2.5-3.6 1.8-3.4 0.2-0.6 Metropolitan statistical area status 59.0-62.5 18.2-20.7 8.9-10.2 4.4-5.5 2.7-3.4 1.5-2.2 0.3-0.7	ot-poor	57.0-60.5	20.1-22.9	10.1-11.7	4.9-6.0	1.9-2.6	0.8-1.3	0.1-0.3	
ortheast 41.7-45.7 22.7-26.4 14.4-17.3 6.2-8.5 4.6-6.5 1.3-3.5 0.5-1.8 lidwest 60.3-66.5 13.5-18.3 8.4-11.1 4.9-7.9 2.5-4.4 0.9-1.8 0.0-0.4 outh 62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7 /est 61.4-65.6 16.8-19.9 7.5-9.3 3.3-4.8 2.5-3.6 1.8-3.4 0.2-0.6 Metropolitan statistical area status 59.0-62.5 18.2-20.7 8.9-10.2 4.4-5.5 2.7-3.4 1.5-2.2 0.3-0.7	Geographic region ^₄								
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62.2-66.7 15.4-20.0 6.7-8.5 4.5-6.1 2.4-3.7 1.3-2.1 0.2-0.7 Vest 61.4-65.6 16.8-19.9 7.5-9.3 3.3-4.8 2.5-3.6 1.8-3.4 0.2-0.6 Metropolitan statistical area status 59.0-62.5 18.2-20.7 8.9-10.2 4.4-5.5 2.7-3.4 1.5-2.2 0.3-0.7									
Vest 61.4-65.6 16.8-19.9 7.5-9.3 3.3-4.8 2.5-3.6 1.8-3.4 0.2-0.6 Metropolitan statistical area status letropolitan 59.0-62.5 18.2-20.7 8.9-10.2 4.4-5.5 2.7-3.4 1.5-2.2 0.3-0.7									
letropolitan 59.0-62.5 18.2-20.7 8.9-10.2 4.4-5.5 2.7-3.4 1.5-2.2 0.3-0.7									
letropolitan 59.0-62.5 18.2-20.7 8.9-10.2 4.4-5.5 2.7-3.4 1.5-2.2 0.3-0.7	Metropolitan statistical area status								
		590-625	18 2-20 7	8 9-10 2	4 4-5 5	27-34	15-22	0 3-0 7	
	ot metropolitan	53.7-60.8	11.9-17.1	9.1-12.7	7.5-10.5	4.8-8.0	1.6-3.1	0.0-0.4	•••

See footnotes at end of table.

Demographic characteristic	Wireless-only adults	Wireless-mostly adults	Dual-users	Landline-mostly adults	Landline-only adults	Phoneless adults	Unknown ¹	Total
Home ownership status								
Owned or being bought	51.3-54.8	20.5-23.3	11.7-13.4	6.6-7.9	3.3-4.3	0.9-1.5	0.2-0.5	
Renting	73.4-77.5	10.6-13.0	3.2-4.9	1.7-2.6	2.5-3.6	2.7-3.8	0.2-0.9	
Other arrangement	55.3-69.6	14.1-26.3	3.2-9.2	2.2-6.8		2.3-7.0		

Table 3. Korn and Graubard 95% confidence intervals for percent distributions in Table 2—Continued

... Category not applicable.

¹Unknown includes adults with either unknown landline, unknown wireless, or unknown frequency-of-use status (for adults with both landline and wireless telephones). Adults with both unknown landline and unknown wireless status are excluded from the analysis.

²GED is General Educational Development high school equivalency diploma.

³Based on family income and family size using the U.S. Census Bureau's poverty thresholds. "Poor" persons are defined as those below the poverty threshold. "Near-poor" persons have incomes of 100% to less than 200% of the poverty thresholds. "Poor" persons have income of 200% of the poverty threshold or greater. Early Release estimates stratified by poverty status are based on reported income only and may differ from similar estimates produced later that are based on both reported and imputed income. Household poverty status was unknown for 7.6% of adults in these analyses. NCHS imputes income when income is unknown, but the imputed income file is not available until the annual National Health Interview Survey microdata are released.

⁴In the geographic classification of the U.S. population, states are grouped into the following four regions used by the U.S. Census Bureau: *Northeast* includes Connecticut, Maine, Massachusetts, New Hampshire, New Yerk, Pennsylvania, Rhode Island, and Vermont; *Midwest* includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; *South* includes Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and *West* includes Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

SOURCE: National Center for Health Statistics, National Health Interview Survey.