National Center for Health Statistics





NATIONAL HEALTH INTERVIEW SURVEY: Release of 2019 Early Release Program Estimates

Stephen Blumberg, PhD

Director, Division of Health Interview Statistics

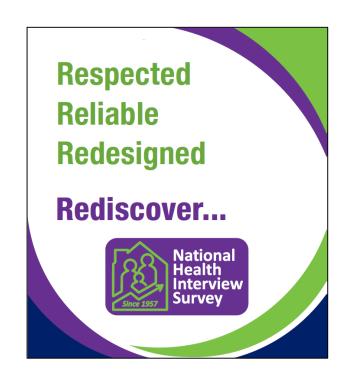
Tina Norris, PhD

Data Scientist, Division of Health Interview Statistics

NCHS Board of Scientific Counselors Meeting September 18, 2020

Goals of the 2019 NHIS Questionnaire Redesign

- Improve the relevance of covered health topics, better meeting the needs of DHHS and other data users
- Harmonize overlapping content with other federal heath surveys
- Reduce respondent burden and improve data quality
- Shorten questionnaire and reduce variation in interview times
- Eliminate or reduce content better covered by other methods
- Establish a long-term structure of periodic content



September 2020 – A Momentous Month for NHIS

- Sept 9: Early release of estimates from July-December 2019 and January-March 2020
- Sept 23: Release of 2019 public use data files and related documentation
- Sept 23: Release of 4 NCHS Data Briefs on symptoms of anxiety and depression and on mental health treatment
- Sept 30: Release of NCHS Data Brief on reasons for being uninsured in the United States for adults 18-64



NATIONAL CENTER FOR HEALTH STATISTICS

Upcoming Webinar

Mental Health in the United States: New Estimates From the National Center for Health Statistics

Join NCHS experts for a discussion of the latest mental health estimates from the 2019 National Health Interview Survey (NHIS).

Webinar topics include:

- Overview of the expanded mental health content in the redesigned 2019 NHIS
- · Latest NHIS data on anxiety, depression, and mental health treatment
- Recent COVID-19 experimental data on mental health from the Household Pulse Survey

For more information, visit: www.cdc.gov/nchs/nhis/nhis-webinar.htm.



Wednesday September 23, 2020



TIME

2:00-3:00 PM [EST]

REGISTER HERE



NHIS Early Release (ER) Program

- Purpose: To position the NHIS for the surveillance of sentinel health events
- Vision: Release less-than-annual estimates of a small set of key health indicators within just a few months of data collection
- First product released in April 2001
- Provides analytic reports and tables and preliminary microdata on an expedited schedule
- Early Release products are developed prior to final processing and weighting to provide early access to the most recent information

NHIS Early Release (ER) Program, 2019 and beyond

Available every three months:

- Updated data query tool with quarterly estimates for 18 key health indicators
- Web tables with quarterly health insurance estimates
- Preliminary microdata files (in the RDC)

Available every six months:

- Updated data query tool with half-year estimates for the 18 key indicators by key demographics
- A report on health insurance coverage
- A report on wireless substitution

Early Release Indicators for Redesigned NHIS

Health Insurance Coverage (18-64 years)

- Lack of health insurance
- Public health plan coverage
- Private health insurance coverage

Health Status

- Disability status
- Workdays missed due to health
- Diagnosed hypertension
- Asthma episode
- Regularly experience chronic pain
- Regularly felt worried, nervous, or anxious
- Regularly felt depressed

Health Behaviors

- Current cigarette smoking
- Current electronic cigarette use

Health Care Access

- Did not get needed medical care due to cost
- Did not take medication as prescribed to reduce costs
- Did not get needed mental health care due to cost

Health Care Service Utilization

- Doctor visit
- Hospital emergency department visit
- Influenza vaccination
- Blood pressure check
- Counseled by a mental health professional
- Dental exam or cleaning

Telephone Ownership

Adults living in wireless-only households

The September 9, 2020 Early Release

Key Health Indicators

- Interactive quarterly estimates from the January-December 2019 NHIS and January-March 2020 NHIS
- Interactive biannual estimates from the January-December 2019 NHIS
- Tables of quarterly and annual estimates from the 2019 NHIS

Health Insurance Coverage

- Early release of estimates from the 2019 NHIS (report)
- Tables of quarterly estimates from the January-December 2019 NHIS
- Tables of quarterly estimates from the January-March 2020 NHIS

Wireless Substitution

 Early release of estimates from the July-December 2019 NHIS (report)

Other

- Preliminary evaluation of the impact of the 2019 NHIS questionnaire redesign and weighting adjustments on Early Release Program estimates (working paper)
- Preliminary microdata files

Interactive Early Release Data Query Systems:

https://www.cdc.gov/nchs/nhis/releases.htm





- To examine whether differences observed between 2018 and 2019 may be due to:
 - Changes from the questionnaire design
 - Changes in the weighting approach
 - Real change

National Health Interview Survey (NHIS) Early Release Program



Preliminary Evaluation of the Impact of the 2019 National Health Interview Survey Questionnaire Redesign and Weighting Adjustments on Early Release Program Estimates

> Division of Health Interview Statistics National Center for Health Statistics Hyattsville, Maryland

Centers for Disease Control and Prevention U.S. Department of Health and Human Services

Updated September 2020

- Changes related to the questionnaire redesign
 - Question wording
 - Context effects
 - Increased use of selfresponse
- Evaluated by comparing estimates from a split sample in Q4/2018

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Updated September 2020

- Changes in the weighting approach
 - Nonresponse adjustment now includes paradata
 - Calibration now includes educational attainment, region, and urban/rural variables
- Evaluated by weighting 2019 data using the old and new approach

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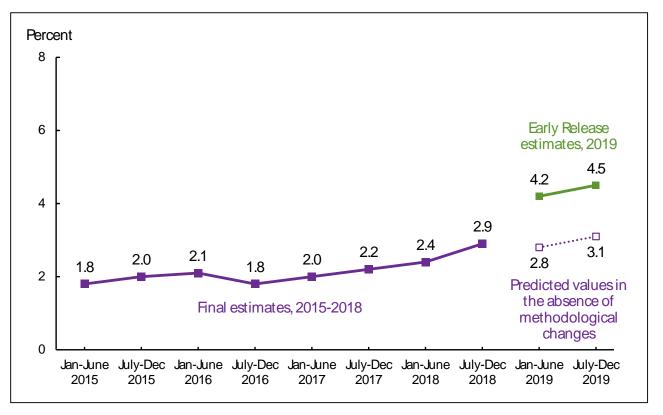
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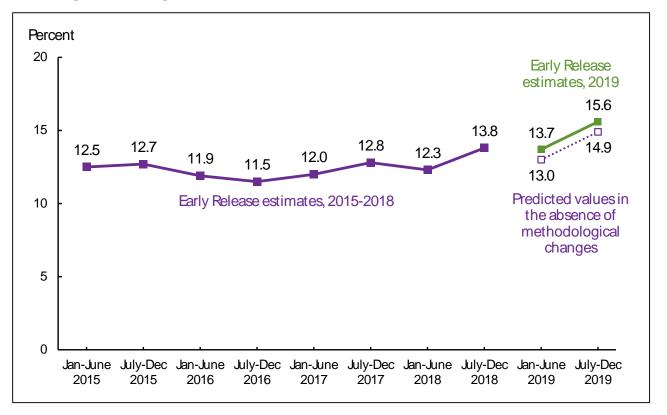
Updated September 2020

Percentage of adults who did not get needed mental health care in the past 12 months due to cost



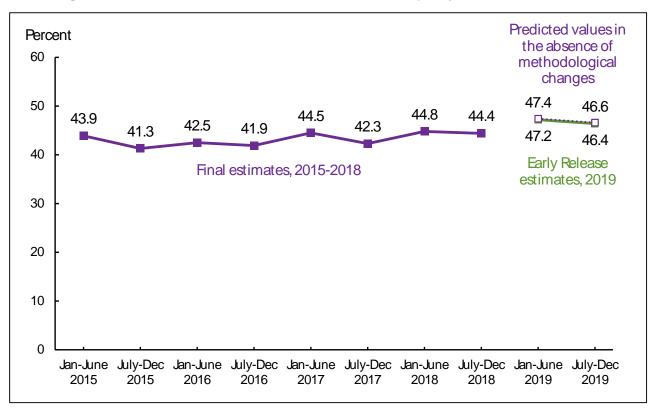
SOURCE NCHS, National Health Interview Survey.

Percentage of adults aged 18-64 who lacked health insurance at the time of interview



SOURCE NCHS, National Health Interview Survey.

Percentage of adults who had an influenza vaccination in the past year



SOURCE NCHS, National Health Interview Survey.

Working Paper Results

- Questionnaire design effects
 - 4 indicators
- Weighting effects
 - 4 indicators
- Both
 - 2 indicators
- No impacts
 - 6 indicators
- Large but not significant effects
 - 3 indicators

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Updated September 2020

National Health Interview Survey and the Pandemic

- Personal visits halted on March 19
- Telephone contacts only from March 19 to June 30
 - No impact on March response rates (~60%)
 - Interviewers now spending time searching for phone numbers
 - Response rates declined in April (~41%)
 - Response rates rose slightly in May and June (~44%)
 - Respondents were older and more likely to be college educated, own their home, and suburban

National Health Interview Survey and the Pandemic

- Personal visits in limited areas resumed July 1
- Telephone first approach
 - July response rates increased slightly (~47%)
- NHIS data collection changed again for August December
 - Personal visits in all areas permitted, but still telephone first
 - Production sample size cut in half
 - Interviewers are attempting to recontact 2019 sample adults by telephone

2020 National Health Interview Survey

Four different surveys, same questionnaire

- 1) Normal operations (January-March)
- 2) Telephone only (April-June)
- 3) Telephone first with reduced sample size (July-December)
- 4) Sample adult followback survey (August-December)

Questions to ponder

- What are the most important things to consider before combining these datasets?
- Should we combine the followback data with the production data? If so, how?
- Should we incorporate additional nonresponse and calibration approaches?
- Should we release preliminary ER estimates before we have all the answers?