Technical Appendix March 2021 CPS Auxiliary Data

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Technical Appendix: March 2021 CPS Auxiliary Data

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Overview of the 2021 CPS Auxiliary Data

The Current Population Survey Annual Social and Economic Supplement (CPS ASEC)—also called the March CPS or ASEC—is the data source most often used for estimating health insurance coverage in the United States. The March CPS underwent major enhancements and revisions for 2014, but the U.S Census Bureau initially released only some changes to the research community and did not add any changes to the basic March data set. The 2019 CPS ASEC was the first production file to contain the reformatted data. However, several important characteristics of employer-sponsored health insurance (ESI) are still not captured by the survey. To address these limitations, the Employee Benefits Security Administration (EBSA) at the U.S. Department of Labor (DOL) annually produces an Auxiliary Data file, which contains recoded and imputed employment and health insurance variables, and a bulletin with summary tables based on the enhanced data.

Although the March 2019 Auxiliary Data represented a break in time series and estimates from it should not be compared to previous years, the 2020 data was expected to allow for two years of consistent data. However, the COVID-19 public health emergency emerged as interviews began for the ASEC in the spring of 2020. Interviews for the ASEC began on March 15, 2020, and, due to COVID-19, were only performed via telephone rather than a combination of phone and in-person. This resulted in a higher non-response rate compared to prior years, so multi-year comparisons are not possible at this time.² The March 2021 survey contains less non-response bias than the March 2020 survey, but the bias remains higher than it was pre-pandemic. Due to the public health emergency and its impacts on both the fielding of the March 2020 survey and its results, the Census Bureau has focused most of its comparisons on changes occurring before the pandemic—comparing estimates of coverage from March 2021, which covers calendar year (CY) 2020, to March 2019 (CY 2018).³

For the March 2021 Auxiliary Data, we updated our data sources to reflect the newest available information. This technical appendix describes the current imputations and edits performed in order to provide detailed estimates of ESI for CY 2020.

The imputations performed can be broken down into two main categories: access to coverage and coverage characteristics. The access to coverage category captures whether an employer provides coverage and details about those that do, including employer size (number of employees) and sector (private, Federal, or state/local). Coverage characteristics include funding type, plan type, and estimates of retiree and COBRA coverage. Starting with the CY 2010 Auxiliary Data, we imputed a variable for actuarial value—the average

¹ In years prior to 2019, the research releases included (a) a single point-in-time coverage variable ("Was person covered at time of questionnaire"); (b) a clarification on type of coverage (employer-sponsored, individual private, or other), if coverage is provided from outside the household; and (c) point-in-time variables on employer offers of health insurance coverage for those who were employed but did not have employer-sponsored coverage. For March 2019 and subsequent years, the data release included the expanded set of questions as asked.

² Non-Response Rates: https://www.census.gov/programs-surveys/cps/technical-documentation/methodology/non-response-rates.html; In May 2021, the Census Bureau released a working paper (Coronavirus Infects Surveys, Too: Survey Nonresponse Bias and the Coronavirus Pandemic. Rothbaum, Jonathan. Bee, Adam. U.S. Census Bureau. May 3, 2021. https://www.census.gov/content/dam/Census/library/working-papers/2020/demo/sehsd-wp2020-10.pdf) that noted non-respondents tended to be more strongly associated with income and the patterns were different by education, Hispanic origin, nativity, and citizenship when compared to respondents. A recent blog post from the Census Bureau (https://www.census.gov/newsroom/blogs/research-matters/2021/09/pandemic-affect-survey-response.html) indicated non-response improved for March 2021 but did not return to pre-pandemic levels.

³ Keisler-Starkey, K. and Bunch, L. (2021). Health Insurance Coverage in the United States: 2020. Current Population Reports. U.S. Census Bureau. https://www.census.gov/content/dam/Census/library/publications/2021/demo/p60-274.pdf

proportion of covered charges paid as benefits by insurance—for active employees with health insurance in their own name.

In general, we imputed insurance and employment characteristics for employees and other persons with employer-sponsored insurance coverage in their own name. ESI dependents were assigned the characteristics of the primary policyholder when that person could be found. A link for one policyholder was maintained for each dependent on the March CPS file, including ESI policyholders who were also dependents. Previous Auxiliary Data files allowed for two policyholder links, but that information is no longer available in the survey. A second variable for both size and sector providing coverage is still included for those with ESI as both a policyholder and a dependent. In addition, we included Federal and state-based marketplace coverage as reported on the unedited CPS dataset, but we edited whether the coverage was subsidized.

Our starting data set was the March 2021 CPS. Below is a list of enhancements made and variables added to the Auxiliary Data file.

- Source of coverage and employer offers of coverage: Although the March CPS asks if insurance coverage is provided by an employer, it does not distinguish whether the coverage is from a current or former employer. This distinction is imputed using the three most recent years (2017–2019) of data from the Medical Expenditure Panel Survey Household Component (MEPS-HC) and the MEPS Person Round Plan (PRPL) file. We assigned employer offers of coverage using information from the CPS point-in-time variable on employer offers of insurance, as released on the ASEC, or used the expanded universe ASEC variables, or, finally, imputed using MEPS-HC data.⁴
- <u>Sector and size providing coverage</u>: We imputed employer sector and size for persons with coverage from a former employer using the three most recent years of data (2018–2020) from the Medical Expenditure Panel Survey Insurance Component (MEPS-IC), as provided by the Agency for Healthcare Research and Quality (AHRQ).
- <u>Funding status</u>, <u>plan type</u>, <u>and COBRA/retiree partition</u>: We used data from the 2018–2020 MEPS-IC to impute funding status. For type of coverage for those with ESI and to partition coverage from a former employer into retiree and COBRA, we used the MEPS-IC, along with partitions and trends from the Kaiser Family Foundation Employer Health Benefits Survey (EHBS) through 2020.
- <u>Federal estimates</u>: We used U.S. Office of Personnel Management (OPM) data by type of plan on employees (postal and non-postal), dependents, and annuitants covered under the Federal Employees Health Benefits (FEHB) Program to provide estimates at the Federal level.
- <u>Actuarial values</u>: We used health plan details from the 2020 EHBS, historical data from prior EHBS reports, data on plan benefits and out-of-pocket costs from the Health Care Cost Institute (HCCI), and Kaiser Family Foundation research to calculate actuarial values. We then imputed the values onto active policyholder records.
- Health spending: CPS introduced variables on out-of-pocket (OOP) spending and person-paid health insurance premiums with the March 2011 CPS. After examining these variables and comparing them to other sources, EBSA decided to include the OOP variable, beginning with the March 2012 Auxiliary Data and Health Insurance Coverage Bulletin. Although the Census Bureau revised the premium variable to be consistent with health insurance in the 2019 ASEC, it continues to be potentially problematic when compared to other sources, and so once again is not included in the Auxiliary Data.
- <u>Union Sponsorship</u>: We used data from the March CPS to identify current workers who obtain coverage through a union plan. We used data directly from the March CPS for the portion of the sample who

⁴ The Census Bureau released two sets of the "offers" variables.

were asked this question, and then using this, imputed data for the remaining workers. For private sector retirees 65 and older, union probability cells calculated from the Survey of Income and Program Participation (SIPP), 2008 Panel Wave 6 (2010) were enhanced and updated with trend data from the National Health Interview Survey (NHIS) for the 2010–2018 period and the SIPP for the 2010–2019 period, both of which had a lower level of detail available. Conditional probabilities from the SIPP data were used to impute all other cases of union sponsorship to persons with coverage from a former employer.

Coverage through an Exchange: The ASEC file contains information about whether people obtained
other private insurance through the Federal or state marketplaces and whether that coverage was
subsidized. The marketplace levels are unedited, but we edited the subsidy responses to indicate that
coverage was subsidized for those under 400% of the federal poverty level.

Caution should be used when interpreting imputed variables for small sample sizes. Users should refrain from reporting statistics at the state level for imputed variables, such as funding, union coverage, plan types, and coverage from a former employer.

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⁵ The more recent SIPP data (both 2014 and 2017 panels) did not have the same level of detail (explicit COBRA/ retiree questions as well as current employer versus former employer versus union) that was found in the earlier (2008 Panel, Wave 6 topical module) survey and needed for the imputation, but it was helpful to look at trends in union coverage.

Imputation Steps

The 12 steps we used to impute data are described in detail below.

Step 1: Imputing coverage from a current versus former employer

The March CPS captures whether insurance coverage is provided by an employer but not whether the coverage is from the policyholder's current or former employer. To impute the employer status, MEPS-HC 2017–2019 data were averaged to calculate probabilities of coverage through a former versus a current employer. The results were enhanced with data from the 2020 MEPS-IC, which provides policyholder counts from non-Federal employers for those with active, retiree, and COBRA coverage. Although we used the 2020 MEPS-IC data for private employers, we used a three-year average (2017–2019) for state and local employers, because single-year estimates were often delayed and those that were available had large standard errors and a high level of variability. We used data from the FEHB Program to provide estimates at the Federal level.

We initially checked all March CPS records to determine whether we could accurately identify source of employer coverage (current versus former). If a person did not work at all during a year but had ESI in their own name, we assigned them coverage by a former employer. For all others, we needed to impute the source of the coverage. We used the 2017–2019 MEPS-HC to calculate probabilities of having coverage through a former employer by age, work status, and presence of retiree income. Then we adjusted these relative probabilities to reproduce the target likelihood of coverage from a former employer, based on the MEPS-IC and the MEPS-HC.

As in the March 2019 and 2020 CPS surveys, the 2021 CPS contains a large number of non-workers with ESI in their own name, which must be categorized as "former employer coverage." For policyholders under 40, we must categorize this coverage as COBRA. We allowed the prior target to deviate from the MEPS-IC indicated COBRA and retiree targets and used the average of the 2019 MEPS-HC and 2020 MEPS-IC as a target for total prior percent. The COBRA percent is not inconsistent with that found on the MEPS PRPL file.

Valid codes for status were set as:

0 = No ESI

1 = Coverage through a former employer

2 = Coverage through a current employer

For CY 2020, this process resulted in 80.5 million ESI policyholders with coverage through their current employer and 13.1 million with coverage through a former employer.

Exhibit 1 shows the results of the source of coverage imputation for persons with ESI in their own name.

⁶ Workers are classified by the CPS variable WEXP whose universe includes those age 15+. https://www2.census.gov/programs-surveys/cps/techdocs/cpsmar21.pdf

Exhibit 1: Persons with ESI in Own Name, by Employment Status (in millions)

Employment Status	ESI Policyholders
Worked in past year	83.1
Coverage from current employer	80.5
Coverage from former employer	2.6
Did not work in past year	10.5
Total	93.6

Note: Components may not sum to total due to rounding.

Step 2: Imputing whether current employer offers ESI

Although the March CPS captures whether individuals are covered by ESI, the public data does not reveal whether the respondent's employer offers insurance. Imputing coverage through a current versus former employer (described in the previous step) creates a subset of persons who, by definition, have an employer that offered coverage.

For the subset of workers (ESI dependents only) who appear to have the same job as they had the previous year and are not insured through their employer either currently or in the prior year, we used the March 2021 point-in-time offer status to inform the assignment of offer/eligibility.

We then used the expanded universe point-in-time offer status to assign status using similar logic.

- If the person's employer did not offer a health insurance plan to any of its employees, then status
 was set to "not offered."
- If the person's employer offered a health insurance plan to any of its employees and the person was deemed to be eligible, then status was set to "employer offered, eligible, not enrolled."
- If the person's employer offered a health insurance plan to any of its employees and the person was ineligible, then status was set to "employer offered, not eligible, not enrolled."

Several variables indicated whether a person was eligible to purchase an employer's health plan if one was offered as well as reasons for ineligibility or non-enrollment. We combined the response to eligibility with the reasons for declining coverage or ineligibility when assigning values to our recoded OFFER variable.

Respondents were allowed to choose more than one reason for declining coverage or for ineligibility. ARC chose to recode those who responded "contract or temporary employees not allowed in plan" or "haven't yet worked for this employer long enough to be covered" as "ineligible." If a respondent only gave "too expensive" as the reason for ineligibility, ARC recoded the record to "eligible, not enrolled."

The response "have a pre-existing condition" is listed under both the reason for ineligibility and reason for not enrolling variables. If this was the only response in both cases, ARC did not make any recodes and the raw eligibility response was used to assign eligibility.

For all other workers, we needed to impute whether the employer offered health insurance, and if so, whether the worker was eligible.⁹

Using data from the 2017–2019 MEPS-HC, we calculated three-year averages of offers and eligibility, then projected them to 2020 based on changes observed in published tabulations from the MEPS-IC. This allowed us to adjust for changes in employer offers. Once we projected offer and eligibility rates to 2020, we calculated the probability of working for an offering employer and being eligible for coverage based on sector (private, Federal, and state/local), firm size (less than 25, 25–99, 100–499, and 500 or more), and hours worked (less than 30 versus 30 or more per week).¹⁰

Valid codes for offer status at the person level were set to:

- 1 = Enrolled, coverage through current employer
- 2 = Employer offered, eligible, not enrolled

⁷ The CPS captures point-in-time offers of coverage for March 2021, but the Auxiliary Data is based on the calendar year 2020 employment and insurance variables. The ASEC offer data has two sets of variables (one where the universe is limited to ESI dependents who work and are not self-employed, another with an expanded universe).

⁸ These were workers covered by their current employers.

⁹ An employer is considered to offer coverage if it offers coverage to any employee, even if not all employees are eligible for the coverage.

¹⁰ For imputation purposes only, hours worked was split at 30 per week to be consistent with the Affordable Care Act.

- 3 = Employer offered, not eligible, not enrolled
- 4 = Not offered

Federal and state employees whose offer status was set as "not offered" to "offered, not eligible." These workers may have responded incorrectly because they misinterpreted the "not offered" category. For example, part-time workers who were ineligible for coverage may have responded "not offered" when, in fact, the employer offered coverage to eligible workers, and so should have been coded as "employer offered, not eligible, not enrolled."

Exhibit 2 shows the results of the coverage imputation for all workers.

Exhibit 2: ESI Coverage, by Offer Status (in millions)

Offer Status	Workers
Employer offers coverage	131.3
Employee has coverage from employer	80.5
Employee eligible, not enrolled	32.2
Employee not eligible, not enrolled	18.6
Employer does not offer coverage	35.7
Total	167.0

Step 3: Imputing the sector that provides coverage

Because the CPS provides information on current (March and past year) but not former employment status, we needed to impute both sector and size of employers that provided coverage for those who have health insurance from a former employer.

For individuals who reported receiving pension or survivor's payments, we used the sector of the employer that provided the payments as the sector most likely to provide health insurance coverage as part of a retirement package. For policyholders without such payments, we imputed the sector providing coverage based on geography (state) and age of policyholder (under 55, 55–64, and 65 and older). We used data from the 2017–2019 MEPS-HC, the 2020 MEPS-IC survey, and the 2020 FEHB Program to determine target probabilities.

For dependents, we used the sector of the policyholder to determine the likely source of coverage. For dependents without a link to a policyholder record, we used their demographic characteristics (age and presence of survivor's income) to determine the sector providing coverage.

Exhibit 3 shows the results of the sector imputation for all persons with ESI. Persons with ESI both in their own name and as a dependent are reported only in the "ESI in Own Name" column. Those categorized as private, self-employed incorporated, and self-employed unincorporated are collapsed to the category "private sector." Those with Federal, state, or local are considered "public sector."

Exhibit 3: ESI Coverage, by Hierarchical Status and Sector (in millions)

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Sector	ESI in Own Name	ESI as Dependent			
Private sector	70.1	62.8			
Current employer	65.1	59.8			
Former employer	5.0	3.0			
Public sector	23.5	20.8			
Current employer	15.4	16.6			
Former employer	8.1	4.2			
Total	93.6	83.6			

Note: Components may not sum to total due to rounding.

Step 4: Imputing the size of employer that provides coverage

As noted above, because the CPS provides information on current but not former employment status, we needed to impute the size of employers that provided coverage for those who have health insurance from a former employer. This imputation was performed similarly to the sector imputation.

We imputed employer size for covered persons, including both policyholders and dependents, based on the prior sector imputation. First, we assigned all covered persons in either the state or Federal government sector to the largest CPS employer size category (1,000 or more). Then, all other covered persons were assigned an employer size based on state, age (under 55, 55–64, or 65 and older), and sector.

As with the sector imputation, we used MEPS-IC as the primary data source. We assigned dependents linked to a policyholder the same status as the policyholder. If we did not find a policyholder, we used characteristics of the dependent. Dimensions were essentially the same as those used for the policyholder imputation, except that the age category for dependents included younger groupings.

The March CPS contains an interval variable on employer size for the job held longest during the prior year. This variable refers to the size of the firm (including employees at all locations) rather than that of the establishment (employees at a single workplace), though tabulations suggest that not all respondents answer appropriately. Although it is impossible to determine whether workers in the private sector include all employer locations when reporting their employer size, we assumed that persons working for a state or the Federal government should fall into the largest employer size category. We edited the responses accordingly.

Exhibit 4 shows the results of the employer size imputations. Persons with ESI both in their own name and as a dependent are reported only in the "ESI in Own Name" column.

Exhibit 4: ESI Coverage, by Hierarchical Status and Employer Size (in millions)

Employer Size	ESI in Own Name	ESI as Dependent
Less than 100	20.8	16.7
Current employer	20.3	16.5
Former employer	0.4	0.2
At least 100	72.8	66.9
Current employer	60.2	59.9
Former employer	12.7	7.0
Total	93.6	83.6

Note: Components may not sum to total due to rounding.

Step 5: Imputing whether coverage was fully insured or self-insured

The March CPS does not include details about a person's health plan, including information indicating funding status. Therefore, we do not know whether an ESI plan is fully insured, meaning the employer contracts with another organization to assume financial responsibility for the enrollees' medical claims and administrative costs, or self-insured, meaning the employer assumes some or all of these costs directly. All information on plan funding for persons with ESI has been imputed for the Bulletin as part of the Auxiliary Data.

We obtained data on funding status and plan type for persons in non-Federal plans from tabulations of the 2018–2020 MEPS-IC files provided by AHRQ.¹¹ The tabulations were performed at the state (or consolidated geographic) level for each year. Although the proportion of persons covered by each plan type and funding status vary by state, the relative values for each state compared to the national average are consistent.

In addition to the MEPS-IC information, we also looked at the EHBS for 2020 to determine the appropriate penetration levels of self-insurance by size of employer. For CY 2020, the EHBS self-insurance percentage did not align with the MEPS-IC information, so we only used the MEPS-IC for the target.

We used the 2020 MEPS-IC levels of self-insurance by sector (private versus state/local), along with the three-year state averages, to determine state-specific targets for persons with ESI. All persons enrolled in Federal plans were assumed to be in fully insured plans.

Exhibit 5 shows results of the funding status implementations.

Exhibit 5: ESI Funding Status, Self-Insured vs. Fully Insured (in millions)

Funding Status	Number with ESI
Self-insured	99.7
Fully insured	77.5
Total	177.2

Note: Components may not sum to total due to rounding.

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¹¹ Plan types were Health Maintenance Organization (HMO), Preferred Provider Organization (PPO), Point-of-Service Plan (POS), and high deductible health plans (HDED); the latter of which includes, but is not limited to, IRS-qualified HDHP plans.

Step 6: Imputing type of plan

As noted in the prior step, the March CPS does not contain detailed information on the health plan in which an individual is enrolled. As with plan funding, we imputed all details on the type of plan held by a person covered by ESI. Prevalence of coverage by plan type—Health Maintenance Organization (HMO), Preferred Provider Organization (PPO), Point-of-Service Plan (POS), and high deductible health plans (HDED)—was based on data from the 2020 MEPS-IC and the change in prevalence from 2019 to 2020 found in the EHBS. AHRQ presented these data by funding status (self-insured versus fully insured) and geography (nine U.S. geographic regions as well as by state). 12 We imputed along these dimensions and by size of employer.

For Federal plans, we based the allocation on the OPM's 2020 FEHB Program data on employees (postal vs. other), annuitants (retirees), and dependents, by plan type (HMO versus PPO).

Exhibit 6 shows the results of the funding and plan type imputations.

Exhibit 6: ESI Coverage, by Funding Status and Type of Plan (in millions)

Funding Status	Total	НМО	PPO	POS	HDED
Self-insured plans	99.7	7.5	54.6	4.1	33.5
Fully insured plans	77.5	18.8	34.5	9.6	14.6
Total	177.2	26.3	89.1	13.7	48.1

Note: Components may not sum to total due to rounding.

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¹² We averaged three years of unpublished MEPS-IC data provided by AHRQ to obtain target percentages by plan type for each state. In cases where the sample size was small, we used three years of data by geographic region rather than state.

Step 7: Imputing the partition of COBRA versus retiree coverage

The March CPS also lacks information on whether coverage by a former employer is retiree or COBRA coverage. We imputed retiree versus COBRA coverage for the Bulletin as part of the Auxiliary Data.

Although the 2020 Heroes Act proposed full subsidies for COBRA coverage, effective March 2020 through January 2021, the bill never passed the Senate. COBRA subsidies were not enacted until April 2021. ¹³ Additionally, EBSA and the Internal Revenue Service released a rule that temporarily extended the time people had to elect and pay for COBRA coverage. ¹⁴ The COBRA counts in the Auxiliary Data, which represent coverage in CY 2020, are most influenced by employer-sponsored insurance coverage among the non-worker population (particularly those under 40) and are higher than counts found in the MEPS-IC for CY 2020. ¹⁵ Our process is laid out in detail below.

We obtained 2020 target counts of persons with either COBRA or retiree coverage by averaging the estimated counts from the 2020 MEPS-IC and 2019 MEPS-HC. We used OPM data for the FEHB Program. We based the split of this total "prior employer" group into COBRA versus retiree coverage on the percentage split from the 2020 MEPS-IC found in the AHRQ data. We based assignments of retiree or COBRA coverage on a person's characteristics, using CPS data and data from the MEPS-HC. The 2021 ASEC contains a large number of non-workers with ESI coverage in their own name. The COBRA counts are higher than targeted due to the non-workers but not inconsistent with targets seen in the MEPS PRPL file.

In general, we assigned coverage for policyholders first, then made the same assignment for their dependents. We assigned dependents without policyholders, usually those with coverage from outside the household, based on their own characteristics. In our allocation, we used the following March CPS characteristics: age, presence of pension income, sector providing health coverage, and categorical amount paid by employer toward health coverage (all, some, or none).

The age groups we used were: under 55, 55–64, and 65 and older. Presence of pension income is based on the March CPS variable "retirement income, pension source" (or survivor's income, if a dependent). We assumed the income to be pension-related if the source was company or union pension, Federal government retirement, state or local government retirement, or U.S. railroad retirement. ¹⁶ The amount paid by an employer toward coverage is captured by the March CPS and categorized as either all, some, or none.

¹³ H.R. 1319 American Rescue Plan Act of 2021. 117th Congress (2021-2022). 3/11/2021. Public Law No: 117-2. https://www.congress.gov/bill/117th-congress/house-bill/1319/text.

¹⁴ Extension of Certain Timeframes for Employee Benefit Plans, Participants, and Beneficiaries Affected by the COVID-19 Outbreak. A Rule by the Internal Revenue Service and the Employee Benefits Security Administration on 5/4/2020.
85 FR 26351, pp. 26351-26355. https://www.federalregister.gov/documents/2020/05/04/2020-09399/extension-of-certain-timeframes-for-employee-benefit-plans-participants-and-beneficiaries-affected.

¹⁵ Private sector estimates from the MEPS-IC (2020). Agency for Healthcare Research and Quality, Center for Financing, Access and Cost Trends. 2020 Medical Expenditure Panel Survey - Insurance Component. https://meps.ahrq.gov/data_stats/summ_tables/insr/national/series_4/2020/ic20_iva_b.pdf and Private sector estimates from the MEPS-IC (2019). Agency for Healthcare Research and Quality, Center for Financing, Access and Cost Trends. 2019 Medical Expenditure Panel Survey - Insurance Component. https://meps.ahrq.gov/data_stats/summ_tables/insr/national/series_4/2019/ic19_iva_b.pdf.

¹⁶ The redesign of the income questions, which began with the split panel design of the March 2014 CPS and became standard for the entire sample starting with the March 2015 survey, has improved identification of pension income and decreased the amount of retiree imputations necessary.

We assigned some to either COBRA or retiree with "certainty" (that is, person-level characteristics alone determined the type of coverage held), and we assigned others based on certain probabilities, along with the targeted counts of persons with each type of coverage.

The allocation rules and guidelines for assigning individuals to retiree or COBRA coverage are listed below, based on whether there is certainty or probability involved.

If the person was under 40 years old, we assigned COBRA with certainty. If pension income was present, we decided status with certainty as follows:

- If the person had pension (or survivor's) income and coverage was from the public sector, we deemed coverage retiree.
- If the person had pension (or survivor's) income, coverage was from the private sector, and employer payment was anything (including unknown) other than "none," we deemed coverage retiree.
- If the person was under 65, had pension (or survivor's) income, coverage was from the private sector, and employer payment was "none," we deemed coverage "COBRA."
- If the person was 65 or older, we deemed coverage retiree.

If no pension (or survivor's) income was present, we assigned coverage as follows:

- The count of persons allocated to retiree or COBRA coverage based on presence of pension income was subtracted from the target counts of retiree and COBRA coverage, by sector and age.
- We used data from the MEPS-HC and MEPS-IC to develop probabilities of retiree versus COBRA coverage for this remaining group by age, employer payment, and sector (for private, state, and local coverage), but we used FEHB Program data to determine the probability of retiree coverage for those with Federal coverage.
- We assigned persons 66 and older who had Medicare to retiree coverage, while persons 65 and under were permitted to be assigned COBRA as part of the transition to Medicare.

Exhibit 7 shows the results of the COBRA and retiree assignments for persons with coverage from a former employer (policyholders and dependents combined).

Exhibit 7: ESI Coverage from a Former Employer, by Age, Sector, and Retiree vs. COBRA Coverage (in millions)

Sector	Under 55	Age 55–64	65 and Older
Private sector	4.4	1.2	2.4
Retiree coverage	0.9	1.1	2.4
COBRA coverage	3.5	0.2	0.0
Public sector	3.2	2.8	6.3
Retiree coverage	2.6	2.8	6.3
COBRA coverage	0.6	0.0	0.0
Total	7.5	4.0	8.7

Note: Components may not sum to total due to rounding.

Step 8: Imputing Medicare Secondary Payer (MSP)

When assigning primary coverage to individuals with more than one source of coverage during the year, the Bulletin generally ranks ESI above all other sources. However, when a person has both Medicare and ESI, this is not always the case.

For most workers, certain ESI plans are primarily responsible for payment. The Medicare Trust Funds are protected by the Medicare Secondary Payer (MSP) Act, which makes Medicare the secondary payer in specific instances, thus shifting costs away from the Medicare program. ¹⁷ Under MSP rules, non-workers (retirees) with ESI always have Medicare as the primary payer. For workers, the primary payer depends on the size of the employer and whether the individual qualifies for Medicare due to age or disability. Because the March CPS does not ask which of these two insurers is the primary payer, we imputed this variable in accordance with MSP rules.

For active employees (and their dependents), a determination of primary payer depends on age and employer size. For workers or their spouses who are 65 or older, ESI is the primary payer if the employer size is 20 or more, but Medicare is the primary payer if employer size is under 20. For those younger than 65, ESI is the primary payer if the employer size is 100 or more, but Medicare is the primary payer if employer size is under 100.

Starting with the March 2019 CPS, the Census Bureau revised the employer size categories to partition end points at 10, 25, and 100; the previous breakpoints were 10, 50, and 100. We modified our analysis to use these new size categories and no longer include an additional partition at size 20 in order to determine MSP splits (size 25 is used as a proxy for size 20). For dependents with both Medicare and ESI coverage, we used the dependent's age, but we obtained the size category from the policyholder. We included a variable in the Auxiliary Data file for all persons with both ESI and Medicare to indicate primary payer.

The 2021 CPS contains a variable indicating whether coverage is concurrent when more than one type of health insurance is present. When the coverage is not concurrent, we assume Medicare is primary with certainty.

Exhibit 8 shows the results of the MSP imputation for persons with Medicare and ESI.

Exhibit 8: Medicare Secondary Payer Coverage, by Age (in millions)

MSP Status	Under 65	65 and Older
Medicare primary	0.3	8.5
Medicare secondary	0.6	2.5
Total	0.8	11.0

¹⁷ The Centers for Medicare and Medicaid Services (CMS) explanation of Medicare Secondary Payer can be found at http://www.cms.gov/Medicare/Coordination-of-Benefits-and-Recovery-Overview/Medicare-Secondary-Payer/Medicare-Secondary-Payer.html. Legislation (42 U.S.C. § 1395y(b)(2)) can be found at https://uscode.house.gov/view.xhtml?reg=(title:42%20section:1395y%20edition:prelim">https://uscode.house.gov/view.xhtml?reg=(title:42%20section:1395y%20edition:prelim">https://uscode.house.gov/view.xhtml?reg=(title:42%20section:1395y%20edition:prelim)

Step 9: Imputing actuarial values (AVs)

Although the March CPS includes limited data on the cost of health insurance and annual medical expenditures, it does not collect the information required to determine the actuarial value (AV) of an individual's health insurance plan. AV represents the fraction of covered medical expenses paid for by a health insurance plan, calculated as an average over a standard population. We imputed variables that represent the actuarial value of active employer-sponsored health insurance coverage by sector, plan type, and funding for employees with health insurance in their own name from a current employer.

We used health plan details from the 2020 KFF EHBS as the primary source for imputing actuarial values. ¹⁸ We also reviewed data on plan benefits and out of pocket costs from a KFF analysis of the Truven Health Analytics MarketScan Commercial Database and the 2019 HCCI Health Care Cost and Utilization Report in an effort to evaluate plan benefit richness, and thus indirectly evaluate average actuarial values. ¹⁹

These sources showed a steady and relatively flat trend in overall actuarial values over time for ESI, though they showed increasing richness for prescription drug coverage and decreasing richness for outpatient and office-based services. Using KFF EHBS plan data from the 2020 survey by plan type and funding, we ensure that targets are stable and reproduce what appear to be the trends and distributions found in both the HCCI data and the KFF / MarketScan analysis. Specifically, the overall AV is fairly close to 0.85, with large employer plans being slightly richer.

This is a change from the imputations performed prior to March 2020, which used AVs as calculated from the 2005 and 2015 National Compensation Survey (NCS). Using the NCS, ARC had calculated AVs for private sector plans based on the plan specifications (cost sharing and covered services) provided in the survey and presented the distributional results by plan type, funding, and employer size. ARC updated this work in 2017²⁰ using the distributional results from the NCS data set 113, which includes plans collected from June 2014 through July 2015.²¹ However, the methodology of using the NCS distribution artificially lowered the mean AV and likely did not capture the change in benefit richness by service, which could affect the shape of the distribution.

We imputed both "cell-based actuarial values"—averages by sector, plan type, and funding—and "plan-specific actuarial values" onto the Auxiliary Data. Although the cell-based values are useful at the aggregate level, they are not helpful for performing detailed analysis of partitions beyond these broad cell groupings. For this reason, we imputed plan-specific values using a plan-to-person, record-by-record match prioritized by size.

The EHBS also reports whether high deductible plans have health savings accounts (HSAs) or health reimbursement accounts (HRAs). We maintained the HSA/HRA partition from the data and, along with the

¹⁸ Kaiser Family Foundation. (October 2020). 2020 Employer Health Benefits Survey. https://www.kff.org/health-costs/report/2020-employer-health-benefits-survey/.

¹⁹ Kaiser Family Foundation analysis of Truven Health Analytics MarketScan Commercial Claims and Encounters Database, 2006 – 2016. https://www.healthsystemtracker.org/brief/increases-in-cost-sharing-payments-have-far-outpaced-wage-growth; Health Care Cost Institute. 2019 Health Care Cost and Utilization Report. (October 2021). https://healthcostinstitute.org/images/pdfs/HCCI 2019 Health Care Cost and Utilization Report.pdf.

²⁰ Final Report: Analysis of Actuarial Values and Plan Funding Using Plans from the National Compensation Survey, A RC (May 12, 2017), https://www.dol.gov/sites/default/files/ebsa/researchers/analysis/health-and-welfare/analysis-of-actuarial-values-and-plan-funding-using-plans-from-the-national-compensation-survey.pdf (compiled for the Office of Policy and Research (OPR), Employee Benefits Security Administration (EBSA), Department of Labor (DOL)).

²¹ Because NCS microdata is generally not publicly available, our work drew on the most recent data set available to ARC, per our analysis of actuarial values and plan funding.

imputed AVs for high deductible plans, imputed a flag noting whether the plan was considered an HSA or an HRA.

Exhibit 9 shows the resulting plan-specific average actuarial values. Averages shown below include HSA/HRA partitions as subsets of the high deductible plan type.

Exhibit 9: Average Actuarial Values for Persons with Active Employees with ESI in Own Name, by Sector and Type of Plan (in millions)

Sector	Total	НМО	PPO	POS	HDED- Total	HDED- HRA	HDED- HSA
Private sector plans	.8466	.9052	.8483	.8490	.8158	.8120	.8168
Public sector plans	.8745	.9457	.8778	.8571	.8150	.8152	.8149

Step 10: Examining CPS variables on health spending

Starting with the March 2011 CPS, the Census Bureau has included information on out-of-pocket spending for over-the-counter purchases, medical care and equipment, and health insurance premiums.

As in years past, we examined levels of out-of-pocket spending and found them compatible with estimates from the MEPS-HC by age and insurance status. In addition, when we examined the distribution of spending for those with out-of-pocket spending, we found these distributions to be robust at both the high and low ends. So, we are again including the CPS estimates of out-of-pocket spending in the March 2021 Auxiliary Data and tables. The out-of-pocket variable included in the Auxiliary Data is the sum of the CPS variables on over-the-counter purchases and medical care. No edits or imputations beyond this summation are performed on the CPS values.

Exhibit 10 shows averages for out-of-pocket spending by type of insurance held.

Exhibit 10: Mean Out-of-Pocket (OOP) Spending, by Hierarchical Insurance (counts in millions, spending in dollars)

Insurance	Counts	Mean OOP
Insured	297.7	\$855
ESI policyholder	87.0	\$1,110
ESI dependent	81.4	\$738
Medicare	56.8	\$1,151
Other private health insurance policyholder	11.0	\$1,246
Other private health insurance dependent	7.7	\$753
Other public	53.9	\$243
Uninsured	28.0	\$552
Total population	325.6	\$829

The questionnaire asked policyholders: "[Earlier I recorded that (your/name's) employer or union did not pay for (your/his/her) entire health insurance premium.] Last year, how much did (you/name) pay out-of-pocket for ALL health insurance premiums [covering (yourself/himself/herself) or others in the household]? Include both comprehensive and supplemental plans (such as vision and dental insurance)."

This question specifically asks to exclude Medicare premiums as deducted from SSA/SSI payments and appears to try to include only those persons with ESI. However, it asks for coverage beyond traditional insurance. Given the lack of specificity of what is contained in the answer, as well as a lack of detail of how this was asked for persons without ESI, we excluded these variables from the Auxiliary Data in the past.

Although the 2021 ASEC reports a second premium variable that has been edited for consistency, the results still produce estimates that do not line up with what is known from other sources, such as the MEPS-IC. In particular, the ratio of family to single contributions is lower (just over two, versus closer to four from MEPS), with the single amount appearing higher and the family amount appearing lower. Despite some improvements, at this point, we continue to exclude it from the Auxiliary Data file.

Step 11: Imputing whether coverage was provided through a union arrangement

For workers 15 or older, the March CPS provides limited information on whether a person is a member of a labor union or of an employee association similar to a union (CPS person variable: A-UNMEM). For nonmembers, the March CPS asks if the person is covered by a collective bargaining agreement (CPS person variable: A-UNCOV). For simplicity, we summarize the two CPS union variables into a single variable, which was coded to have values of either "1" (union) or "2" (not union). We categorized all persons who indicated either union membership or coverage through a collective bargaining agreement as "union" and those who did not as "not union."

However, the usefulness of these questions is limited by the fact that they are asked to only one-quarter of the working population (those who were in their fourth or eighth month in the survey) and exclude the self-employed. For this reason, we imputed union membership to all other private and public sector workers, and we imputed union coverage to all persons with ESI, creating three imputed variables: one for all workers (union membership), one for ESI policyholders (union coverage), and one for ESI dependents (union coverage).

We began the assignment process by looking at private and public sector workers. If the March CPS union variables give a valid union status, we assigned union membership (yes or no) with certainty. For all other persons (those without a valid CPS union status), we imputed union membership. We calculated the likelihood of union membership using CPS records that had a valid set of responses to the union questions, with the resulting probabilities based on:

- age (under 35, 35–54, 55–64, and 65 and older),
- collapsed industry/sector of employment to private sector and likely union (mining, construction, manufacturing, transportation, utilities) and private sector and not likely union (agriculture/forestry/fishing, wholesale, retail, finance/insurance/real estate, services, healthcare), and public sector,
- size of employer (under 25, 25–499, and 500 and over),
- hours worked (under 30 per week and 30 or more per week), and
- · geographical region.

Next, we assigned, with certainty, union coverage status for ESI policyholders with coverage through their current employer based on their union worker status. This step was straightforward, as these records kept their assignment from the prior step.

We then imputed union coverage for ESI policyholders with coverage from a former employer, whether or not they currently work. We did this to reflect the status of the employer providing coverage, whereas the union variables described above were based on the characteristics of the current employer.

We used probability cells from the 2008 Wave 6 panel of the SIPP (2010 data) for those with coverage through COBRA or as a retiree. Probability cells for COBRA coverage include age (under 55, 55 and older), size of employer providing coverage (under 100 and 100 or more), employer sector (private, Federal, state/local) and work status (work and no work). Probability cells for retirees include an additional age break at 65 and omit work status. More recent data at this level of detail remains unavailable, and so we supplemented the SIPP 2010 probabilities with trend data from both the NHIS (2010-2018) and SIPP (2010-2019). The only discernable trend is for retirees 65 and older, who are more likely to have coverage from a union. As a result, their base probability has been increased.

For ESI dependents (including those who were also policyholders), we created a variable with the same categories as those for policyholders. We used the affiliation of the policyholder whenever a link was available. In the absence of a direct link, we imputed the status based on sector of coverage, size of employer providing coverage, age of dependent, and whether coverage is active, COBRA, or retiree.

Exhibit 11a shows the results of the assignment of union membership and coverage for all workers. Exhibit 11b shows the assignment of union coverage for all persons with ESI (policyholders and dependents), both workers and non-workers.

Exhibit 11a: Union Membership or Coverage for All Workers (with or without ESI, no self-employed) (numbers in millions)

Union Status	Total Workers
Union members	17.6
Not union	133.8
Total	151.4

Exhibit 11b: Union Membership or Coverage for All Persons with ESI (workers and non-workers)

(numbers in millions)

Union Status	Total ESI
Union members	31.1
Not union	139.9
Total	171.0

Note: ESI includes both policyholders and dependents but excludes those with coverage only through self-employment.

Step 12: Whether coverage was provided through a health insurance exchange

Since October 2013, individuals have been able to purchase health insurance coverage for the following calendar year through state or Federal health insurance exchanges, in addition to purchasing directly from insurance companies. Open enrollment sign-up for exchange coverage for CY 2020 took place between November 1, 2019, and December 15, 2019, with special enrollment permitted outside this window.

The CPS has collected information on whether private insurance was purchased through an exchange, but that information was not released until the March 2019 data. The data now includes indicators for exchange coverage and whether that coverage was subsidized. After tabulating the data, ARC determined that while the overall counts (10.8 million) were reasonable, the proportion of those with subsidized coverage (69% of enrollees) is underrepresented when compared to the average monthly effectuated enrollment data by state and income level for 2020, as released by the Centers for Medicare and Medicaid Services (CMS).²²

We largely eliminated this subsidy discrepancy in last year's Auxiliary Data by editing the file to assume all persons whose incomes are less than 400% of the Federal poverty level (FPL) actually receive a subsidy. ²³ Because we expect that some whose income meets or exceeds the 400% FPL receive a subsidy after applying income adjustments, we make no edits to remove a report of receiving a subsidy. Counting all enrollees under 400% FPL, plus those over 400% FPL reporting a subsidy, results in an estimate of 86% of enrollees receiving an advance premium tax credit, which is in line with the CMS reported percentage.

Exhibit 12 shows the income distributions of persons with health insurance coverage through exchanges, both raw and edited, based on the official CPS weights.

Exhibit 12: Exchange Counts, by Subsidy (in millions)

Income Band	Subsidized (raw)	Not Subsidized (raw)	Subsidized (edited)	Not Subsidized (edited)	Total
Less than 250% FPL	3.7	1.0	4.7	0.0	4.7
250%–399% FPL	2.0	0.8	2.8	0.0	2.8
At least 400% FPL	1.7	1.5	1.7	1.5	3.3
Total	7.5	3.4	9.3	1.5	10.8

Note: Components may not sum to total due to rounding.

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²² Effectuated Enrollment: Early 2021 Snapshot and Full Year 2020 Average, Centers for Medicare and Medicaid Services, Table 3 (June 5, 2021). https://www.cms.gov/document/Early-2021-2020-Effectuated-Enrollment-Report.pdf.

²³ Poverty has been tabulated using the CPS variable POVLL, which may differ from the actual poverty calculation used to determine eligibility for Medicaid, CHIP, or subsidies through the health insurance exchanges. We made a simplifying assumption to move people from unsubsidized to subsidized coverage if their poverty was under 400% FPL. Given the inherent intricacies in actual eligibility calculations, we did not remove a subsidy from any record (including those above 400% FPL) where receipt was indicated.

Revisions to the March CPS and Our Methodology

The 2019 CPS presented new variables in the main data release, with the Census Bureau introducing a new processing system to "better extract, impute, and weight data collected using the redesigned CPS ASEC questionnaire." The new processing system allows for a wider range of family definitions, including same sex partnerships and marriages. It also includes variables indicating subannual coverage, concurrent coverage, exchange coverage and subsidy, point-in-time coverage, and out-of-pocket medical expenses based on an alternative definition. ²⁵

Although weights are provided for all records, infants do not have previous year health insurance information reported. We adjusted our Auxiliary Data weights so these infants have a weight of zero for purposes of tabulating health insurance coverage.

Versions of the Auxiliary Data prior to March 2019 maintained links for two policyholders. That information is no longer available in the March CPS data beginning with the March 2019 survey, and so we removed the second policyholder line number variable from the Auxiliary Data as well.

The March 2020 questionnaire was fielded during the early days of the COVID-19 pandemic, and the resulting data has a higher than usual amount of non-response bias. Although the March 2021 data is improved, the non-response bias has not returned to pre-pandemic levels, and for this reason, the Census Bureau compares March 2021 CPS tabulations to March 2019 CPS tabulations rather than March 2020 CPS.²⁶

A mapping from the March 2021 CPS insurance variables to the Auxiliary Data variables is provided in Exhibit 13a. Exhibit 13b displays the additional variables for point-in-time insurance coverage in their original (Census Bureau) and recoded form (consistent with those in Exhibit 13a).

²⁴ Updates to the Processing of Out-of-Pocket Medical Expenditures and Medicare Premiums, U.S. Census Bureau, SEHSD Working Paper Number 2019-31. https://www.census.gov/content/dam/Census/library/working-papers/2019/demo/sehsd-wp2019-31.pdf.

²⁵ The Census Bureau uses "subannual" to denote less than a year—they ask monthly but only report coverage as none, part year, or full year.

²⁶ Keisler-Starkey, K. and Bunch, L. (2021). Health Insurance Coverage in the United States: 2020. Current Population Reports. U.S. Census Bureau. https://www.census.gov/content/dam/Census/library/publications/2021/demo/p60-274.pdf

Exhibit 13a: 2021 CPS Auxiliary Data Insurance Variables Mapping from Raw Data, Coverage in Prior Year

Coverage in Prior Year	CPS Variables	Auxiliary Data Variable
ESI policyholder	OWNGRP	ESIPH
ESI dependent	DEPGRP, OUTGRP	ESIDEP
OPHI policyholder	OWNDIR	OPHIPH
OPHI dependent	DEPDIR, OUTDIR	OPHIDEP
Exchange	MRK	EXCHANGE
Medicare	MCARE	NMCARE
Medicaid	CAID	NMCAID
CHIP	PCHIP	CHIPP
Military	MIL, CHAMPVA, VACARE	СНАМР
Other (public)	ОТНМТ	OTHER
No health coverage	NO_COV_CYR	UNINS
Coverage from outside household	OUTGRP, OUTDIR, OUTMIL	OUTTYP
Concurrent coverage	COV_MULT_CYR	CONCURR
Exchange coverage subsidized	MRKS	SUBSIDY

Exhibit 13b: 2021 CPS Auxiliary Data Insurance Variables Mapping from Raw Data, Point-in-Time Coverage

Point-in-Time Coverage	CPS Variables	Auxiliary Data Variable
ESI policyholder	NOW_OWNGRP	PITESIPH
ESI dependent	NOW_DEPGRP, NOW_OUTGRP	PITESIDEP
OPHI policyholder	NOW_OWNDIR	PITOPHIPH
OPHI dependent	NOW_DEPDIR, NOW_OUTDIR	PITOPHIDEP
Exchange	NOW_MRK	PITEXCHANGE
Medicare	NOW_MCARE	PITNMCARE
Medicaid	NOW_CAID	PITNMCAID
CHIP	NOW_PCHIP	PITCHIPP
Military	NOW_MIL, NOW_CHAMPVA, NOW_VACARE	PITCHAMP
Other (public)	NOW_OTHMT	PITOTHER
Uninsured	NOW_COV	PITUNINS
Coverage from outside household	NOW_OUTGRP, NOW_OUTDIR, NOW_OUTMIL PITOUTTYP	
Exchange coverage subsidized	NOW_MRKS	PITSUBSIDY

In addition, the following revisions have been made in the last few years:

- As noted in Step 5, the MEPS-IC and the EHBS self-insurance levels (and trend) differ for CY 2020. For the March 2021 Tool file, we only used the MEPS-IC as source data.
- As noted in Step 9, beginning with the March 2020 (CY 2019) survey, ARC did not use the NCS distribution for the imputation of actuarial values. The EHBS and mean AVs from HCCI were used for both private and public sector plans.
- Due to the imposition of a minimum retiree coverage age of 40, the COBRA counts are higher than
 suggested by the MEPS-IC. The CPS includes more non-workers with ESI coverage as a
 policyholder than the MEPS-IC shows. Thus, this year, we used the average of the MEPS-IC and
 the MEPS-HC prior percentage as a target for prior coverage count. We based the split into COBRA
 versus retiree coverage on the MEPS-IC.
- The exchange counts on the raw March 2021 CPS are similar to the published CMS counts.
 However, the subsidized counts are notably lower. ARC edited the subsidy flag so persons under 400% FPL are flagged as receiving a subsidy.

Useful Links

Current Population Survey's Annual Social and Economic Supplement (March CPS)

- The main CPS page is found at https://www.census.gov/programs-surveys/cps.html. It contains links to details such as methodology, data, definitions, and technical documentation.
 - The codebook for the March 2021 CPS, which includes mention of survey changes, is found at https://www2.census.gov/programs-surveys/cps/techdocs/cpsmar21.pdf.
 - Health insurance estimates from the CPS are from the Annual Social and Economic Supplement, with the main publication page for all Census Bureau health insurance reports found at https://www.census.gov/content/census/en/topics/health/health-insurance/library/publications.All.html/.
 - The main report from the March 2021 survey, "Health Insurance Coverage in the United States: 2020," contains information collected only in the March CPS. Previous publications included estimates from the American Community Survey (ACS) for some state-level tables.
 - The report itself can be found at https://www.census.gov/library/publications/2021/demo/p60-274.html.
 - Working papers on health insurance and income/poverty, respectively, can be found at https://www.census.gov/topics/health/health-insurance/library/working-papers.html and https://www.census.gov/topics/income-poverty/library/working-papers.html.
 - Further explanation of the changes and enhancements to the March 2014 CPS can be found at https://www.census.gov/topics/health/health-insurance/guidance/cpsasec-redesign.html.
 - Research files (2014-2019) with data on point-in-time insurance coverage variable information and information on refinements to coverage from outside the household can be found at https://www.census.gov/data/datasets/time-series/demo/health-insurance/cps-asec-research-files.html.

Medical Expenditure Panel Survey (MEPS)

- The main MEPS page is found at http://meps.ahrq.gov/meps.ahrq.gov/mepsweb/, and background information is available at http://meps.ahrq.gov/mepsweb/about meps/survey back.jsp.
- Two of the main components are the Household Component (MEPS-HC) and Insurance Component (MEPS-IC). Links to those are found at http://meps.ahrq.gov/mepsweb/survey_comp/household.jsp for the HC and http://meps.ahrq.gov/mepsweb/survey_comp/lnsurance.jsp for the IC.

Survey of Income and Program Participation (SIPP)

- The Survey of Income and Program Participation, a longitudinal panel survey, is conducted by the Census Bureau. Information on the SIPP can be found at https://www.census.gov/programs-surveys/sipp/about.html.
- Reports based on SIPP data can be found at https://www.census.gov/programs-surveys/sipp/library/publications.html.

Kaiser Family Foundation Employer Health Benefits Surveys (EHBS)

Archive of surveys from 2020 and earlier can be found at http://kff.org/health-costs/report/employer-health-benefits-annual-survey-archives/.

• The most recent survey, 2021, is found at https://www.kff.org/health-costs/report/2021-employer-health-benefits-survey/.

Federal Employees Health Benefits (FEHB) Program

- An overview of the program can be found at http://www.opm.gov/healthcare-insurance/healthcare/.
- Frequently asked questions, including about Medicare and the FEHB Program, are at http://www.opm.gov/FAQS/topic/insure/index.aspx?cid=3d961dac-81d1-44e2-998c-ed80029feb70.