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# Medicare Health Outcomes Survey

## 2024 Cohort 27 Baseline Public Use File Data Users Guide

Prepared by Health Services Advisory Group



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# Preface

## Public Use File

The Centers for Medicare & Medicaid Services (CMS) is committed to monitoring the quality of care provided by Medicare Advantage Organizations (MAOs). The Medicare Health Outcomes Survey (HOS) is the first patient-reported health outcomes measure for the Medicare population in managed care settings. The HOS design is based on a randomly selected sample of individuals from each participating MAO and measures physical and mental health over a two-year period. General information about the HOS Program is available on the [CMS HOS website](#) and a full description of the program is available on the HOS website at [www.HOSonline.org](http://www.HOSonline.org).

This HOS 2024 Cohort 27 Baseline Public Use File (PUF) Data Users Guide (DUG) is designed to help individuals use the 2024 Cohort 27 Baseline public use data. The DUG includes an overview of the file organization, an explanation of derived fields, and a table defining the attributes of all fields in the file. The HOS PUF contains most of the survey items collected on the HOS instrument (excluding beneficiary identifying information), as well as selected additional administrative variables. The HOS PUF is constructed to prevent the identification of any single beneficiary or MAO and only respondents to the survey are included in the files. Additionally, selected beneficiary-level demographic fields are collapsed into fewer categories. Refer to the Limitations and Categorization of the Data page for further details. The HOS PUF is available at no cost and can be downloaded from the [Data](#) page of the HOS website. The PUF data set is available as a Comma Separated Values (CSV) file.

## Other Research Data Files Available

In addition to the PUF, the Medicare HOS data are also available by request as a limited data set (LDS) and a research identifiable file (RIF). Both the LDS and RIF include the entire national sample for a survey year (including both respondents and non-respondents), and contain all the HOS survey items.

### *Limited Data Set*

The HOS 2024 Cohort 27 Baseline LDS contains all records in the complete RIF, as well as most of the same fields. It contains protected beneficiary-level health information such as date of birth, sex, race/ethnicity, and county of residence, however, specific direct person identifiers are removed, as outlined in the Health Insurance Portability and Accountability Act of 1996 (HIPAA). Removed fields include the Medicare Beneficiary Identifier (MBI), CMS beneficiary link key (BLKEY), beneficiary name, phone number, and mailing address, and the name of the person who completed the survey. Additionally, the MAO contract number is blinded in the LDS and certain fields describing MAOs have been modified (i.e., categorical enrollment) or excluded (i.e., plan name) to prevent identification of specific MAO contracts. Despite these limitations, the LDS is adequate to address most research aims and is the file most often requested by researchers. Since the information is still potentially identifiable, it is also subject to the provisions of the Privacy Act of 1974, although LDS requests do not require approval from the CMS Privacy Board. To qualify for an LDS, data requestors must show that their

proposed use of the data meets the disclosure provisions for research purposes as defined in HIPAA and the Privacy Act. The research purpose must relate to projects that could ultimately improve the care provided to Medicare and Medicaid beneficiaries and policies that govern their care.

### ***Research Identifiable File***

The complete HOS 2024 Cohort 27 Baseline RIF contains all fields, including the direct person identifiers and plan-level identifiers that are excluded from the LDS. The scope and subject matter of studies requiring a RIF must assist CMS in monitoring, managing, and improving the Medicare and Medicaid program and the services provided to beneficiaries. The CMS Privacy Board must review requests for RIF data, to ensure that beneficiaries' privacy is protected and the need for identifiable data is justified. CMS must balance the potential risk to beneficiary confidentiality with the probable benefits gained from the completed research. Requestors must also demonstrate the expertise and experience to conduct and complete the proposed study using RIF files.

### ***Obtaining Research Files***

A signed Data Use Agreement (DUA) with CMS is required to obtain either LDS or RIF data. The Research Data Assistance Center (ResDAC) at the University of Minnesota is the CMS contractor that helps academic, government, and non-profit researchers interested in using Medicare and/or Medicaid data. When requesting HOS RIFs, ResDAC is available to assist in the completion and/or review of data requisition forms prior to their submission to CMS. The [ResDAC HOS](#) page provides information and assistance with obtaining Medicare HOS RIFs. ResDAC may also be contacted by calling (888) 9RESDAC (888-973-7322) or emailing [resdac@umn.edu](mailto:resdac@umn.edu). All requests for HOS LDS files must be submitted through the CMS Limited Data Set File Process. Instructions are available on the [CMS LDS HOS](#) page. The Medicare HOS Information and Technical Support at [hos@hsag.com](mailto:hos@hsag.com) is available to answer questions about the HOS research files.

### **Statutory Authority**

Section 722 of the Medicare Prescription Drug, Improvement, and Modernization Act of 2003 (MMA) mandates collecting, analyzing, and reporting health outcomes information. This legislation also specifies that data collected on quality, outcomes, and beneficiary satisfaction to facilitate consumer choice and program administration must use the same types of data that were collected prior to November 1, 2003. Collected since 1998, the Medicare HOS was the first patient-reported outcomes measure in Medicare managed care, and therefore remains a critical part of assessing MAO quality. In addition, CMS includes HOS results as a component of the Medicare Plan Finder ([www.medicare.gov/plan-compare](http://www.medicare.gov/plan-compare)), a web-based tool that helps inform beneficiaries about Medicare enrollment choices. CMS incorporates new survey components in the HOS, as appropriate, to provide outcome measures that MAOs can use in quality improvement initiatives.

## Technical Assistance

Medicare HOS Information and Technical Support at [hos@hsag.com](mailto:hos@hsag.com) or (888) 880-0077 is available to assist with questions regarding the data file. For more detailed discussions on the sampling, survey administration, data collection, and instruments, refer to the *Healthcare Effectiveness Data and Information Set (HEDIS®)*<sup>1</sup> *Measurement Year (MY) 2023, Volume 6: Specifications for the Medicare Health Outcomes Survey* manual.<sup>2</sup> The most recent HEDIS Volume 6 manuals are available at no cost from the [NCQA store](#). Copies of older editions of HEDIS publications may be obtained by calling NCQA Customer Support at (888) 275-7585. Additionally, a glossary consisting of definitions relevant to the HOS may be accessed from the “[Glossary](#)” link at the bottom of each HOS webpage.

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<sup>1</sup> HEDIS® is a registered trademark of the National Committee for Quality Assurance (NCQA).

<sup>2</sup> National Committee for Quality Assurance. *HEDIS® MY 2023, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2024.

# Program Background

## Introduction to the Medicare Health Outcomes Survey

In 1998, outcomes measures were developed with the intention to capture performance across multiple aspects of care, in addition to the traditional HEDIS process measures that assess interventions. CMS, NCQA, Health Assessment Lab (HAL), and performance measurement experts developed an instrument that would assess the physical functioning and mental well-being of Medicare beneficiaries over time. The HOS 1.0 included a 36-item health survey to measure physical and mental health outcomes. Additional items included in the HOS 1.0 instrument permitted case-mix adjustment to enhance meaningful and valid plan-to-plan comparisons of health outcomes. In 2003, Healthy Days Measures questions were added from the Centers for Disease Control and Prevention's (CDC) Behavioral Risk Factor Surveillance System (BRFSS). Similarly, between 2003 and 2006, questions were added for four NCQA HEDIS measures (see the NCQA HEDIS Measures section on page 8). The HOS 2.0 was also implemented in 2006, using the Veterans RAND 12-Item Health Survey (VR-12)<sup>3</sup> with additional case-mix and health questions.

### ***Medicare Health Outcomes Survey 2.5 and 3.0***

CMS implemented the Medicare HOS 2.5 in 2013. Like the HOS 2.0, the HOS 2.5 used the VR-12 as the core physical and mental health outcomes measure and included four HEDIS Effectiveness of Care measures. The HOS 2.5 added questions on race, ethnicity, primary language, sex, and disability from Section 4302 of the Affordable Care Act (ACA).

CMS implemented the Medicare HOS 3.0 in 2015, continuing to use the VR-12 as the core physical and mental health outcomes measure and the four HEDIS HOS Effectiveness of Care measures. Changes from the HOS 2.5 included question wording and a formatting change to a two-column layout for each page. Specific changes in the HOS are detailed in the Survey Instrument section of this DUG. The HOS survey instrument can be downloaded from [NCQA's website](#).

### ***Partners and Technical Advisors***

CMS currently contracts with NCQA and Health Services Advisory Group (HSAG) to implement and operationalize all aspects of the HOS.

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<sup>3</sup> Iqbal SU, Rogers W, Selim A, et al. The Veterans RAND 12 Item Health Survey (VR-12): What it is and How it is used. Available at: [www.hosonline.org/globalassets/hos-online/publications/veterans\\_rand\\_12\\_item\\_health\\_survey\\_vr-12\\_2007.pdf](http://www.hosonline.org/globalassets/hos-online/publications/veterans_rand_12_item_health_survey_vr-12_2007.pdf). Accessed on: Dec 2, 2025.

## **2024 Medicare Advantage Organization Participation**

MAOs with Medicare contracts in effect on or before January 1, 2023, were required to report the Baseline HOS in 2024, provided they had a minimum enrollment of 500 beneficiaries as of February 2024.

- All MAOs, including all coordinated care plans, local and regional preferred provider organizations (PPO), Private Fee-for-Service (PFFS) contracts, and Medical Savings Account (MSA) contracts.
- Section 1876 cost contracts even if closed for enrollment.
- Employer/union only contracts.
- Medicare-Medicaid Plans (MMP).

Beneficiaries enrolled in Institutional Special Needs Plans (I-SNP) at the plan benefit package (PBP) level were excluded from the Baseline HOS. Contracts in effect on or before January 1, 2023, with only one PBP or with multiple PBPs that were all I-SNPs as of February 1, 2024, were exempt from the Baseline reporting requirement. Contracts with a minimum of 500 members after I-SNP members were excluded, were required to administer the Baseline Survey in 2024 to their non-I-SNP members. Contracts with less than 500 non-I-SNP members after I-SNP members were excluded and were not required to report the Baseline HOS.

MAOs sponsoring Fully Integrated Dual Eligible (FIDE) Special Needs Plans (SNPs) in 2024 could elect to report HOS or HOS-Modified (HOS-M) at the plan benefit package (PBP) level to determine eligibility for frailty adjustment under the Affordable Care Act. For contracts with more than 500 beneficiaries, voluntary reporting is in addition to standard HOS requirements for quality reporting at the contract level. Up to 1,200 enrollees were sampled for each FIDE SNP PBP, if available. The requirements for participating in the HOS or HOS-M for frailty assessment are as follows:

- The PBP that will be the FIDE SNP in 2025 must have existed as of January 1, 2024.
- The PBP did not have to meet FIDE SNP requirements to be surveyed in 2024 but must have been a Dual Eligible SNP.
- The PBP must have at least 50 enrollees.

## **Sampling Methodology**

The HOS is administered to a randomly selected sample of individuals at baseline from each MAO. The sampling methodology is dependent upon the size of a plan's population.

### **2024 Cohort 27 Baseline Sampling**

CMS identified beneficiaries who were eligible for sampling as follows:

- MAOs with fewer than 500 beneficiaries enrolled were not required to report HOS.
- For MAOs with 500 to 1,200 beneficiaries, all eligible beneficiaries were included in the sample.
- For MAOs with more than 1,200 beneficiaries, a simple random sample of 1,200 beneficiaries was selected for the baseline survey.

- Beneficiaries were defined as eligible if they were 18 years or older on the date the sample was selected. The six months enrollment requirement was waived beginning in 2009, and beneficiaries with End Stage Renal Disease (ESRD) were no longer excluded from the sampling beginning in 2010. Beginning in 2019, MAOs could also request oversampling if the contract’s enrollment permits a sample size larger than the standard sample of 1,200. Oversampling is expressed as a whole percentage of the standard sample size. Since 2020, I-SNPs have been excluded from the Baseline HOS.

## Survey Administration

MAOs contract with a CMS-approved survey vendor to administer the survey following the protocol specified in the HEDIS Volume 6 manual. The manual detailed the methods for mail, telephone, and mixed methods of data collection.

- The mail component of the survey uses pre-notification letters, a standardized questionnaire, survey letters, and reminder/thank you postcards. Sampled beneficiaries complete the HOS in English, Spanish, Chinese, or Russian language versions of the mail survey.
- Survey vendors attempt telephone follow up in English, Spanish, or Chinese (with at least five attempts) in those instances when beneficiaries fail to respond after the second mail survey or return an incomplete mail survey. A standardized version of an Electronic Telephone Interviewing System script is used to collect telephone interview data for the survey. Telephone follow up is not available for the Russian language survey.
- Survey vendors perform initial data cleaning and follow up with survey respondents as necessary.

For a more detailed discussion on data sampling, collection, and submission, refer to the HEDIS Volume 6 manual.

## Survey Instrument

The HOS 3.0 was administered for the 2024 Cohort 27 Baseline surveys. This version of the HOS includes: changes to questions about urine leakage, sleep duration and quality, and primary language spoken in the home. Formatting in the HOS 3.0 was changed to the two-column layout currently used for each page. The HOS survey instrument can be downloaded from [NCQA’s website](#).

### ***Veterans RAND 12-Item Health Survey (VR-12)***

The key component of the HOS for assessment of the physical and mental health functioning is the VR-12 health survey.<sup>4</sup> The VR-12 consists of 14 items, 12 of which are used in the

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<sup>4</sup> Information about the VR-36, VR-12, and VR-6D instruments is available on the Boston University School of Public Health website. The website offers details on development, applications, and references for the VR-12, which is the core health outcomes measure in the Medicare HOS and HOS-M. For information about the instruments and to request permission to use the documentation and scoring algorithms, go to: <https://www.bu.edu/sph/research/centers-and-groups/vr-36-vr-12-and-vr-6d/>. Accessed on: Dec 2, 2025.

calculation of eight health domains and two summary measures: the physical component summary (PCS) and mental component summary (MCS) scores. The VR-12 measures the same eight health domains as the 36-item health survey used in HOS version 1.0. Each domain aggregates one or two items and all eight domains are used to calculate the two summary measures.<sup>4</sup> Two of the 14 items, which ask about change in physical health and emotional health compared to one year ago, are not used in the calculation of the PCS and MCS scores.

### ***Physical and Mental Component Summary Scores***

PCS and MCS scores were calculated from the VR-12 using the Modified Regression Estimate (MRE) for scoring and for imputation of missing data.<sup>5</sup> These unadjusted scores are used to create the final adjusted change scores that are discussed in the Case-mix Adjustment section. The MRE is a general method for obtaining scale scores in the context of missing data, where a different set of regression weights is applied depending on the pattern of missing item responses. The MRE uses complete cases to estimate a regression equation where only those items that are present are used. PCS and MCS scores are standardized using normative values from a 1990 U.S. general population so that scores have a direct interpretation in relation to the distribution of scores in the U.S. population, which have a mean of 50 and a standard deviation of 10. PCS and MCS results are then adjusted for the impact of telephone administration since studies have shown that health status scores tend to be more favorable with interviewer administered surveys. For telephone surveys, 1.9 points are subtracted from the PCS score and 4.5 points are subtracted from the MCS score.

On a scale of 0-100, a higher PCS or MCS score reflects better health status. For the physical health summary measure, very high scores indicate no physical limitations, disabilities, or decline in well-being, high energy level, and a rating of health as “excellent.” For the mental health summary measure, very high scores indicate frequent positive affect, absence of psychological distress, and no limitations in usual social and role activities due to emotional problems.

### ***Case-mix Adjustment***

Case-mix adjustment may be used by researchers to adjust the survey response data for beneficiary characteristics that are known to be related to systematic biases in the way people respond to survey questions. The HOS instrument includes several items that are available for case-mix adjustment. These items include: demographic and socioeconomic characteristics (e.g., age, sex, race, education, and marital status), chronic medical conditions, and HOS study design variables (e.g., a question on whether the survey was self-completed or completed by a proxy and the CMS region).

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<sup>5</sup> Spiro A, Rogers WH, Qian S, Kazis LE. Imputing physical and mental summary scores (PCS and MCS) for the Veterans SF-12 Health Survey in the context of missing data. Technical Report prepared by: The Health Outcomes Technologies Program, Health Services Department, Boston University School of Public Health, Boston, MA and The Institute for Health Outcomes and Policy, Center for Health Quality, Outcomes and Economic Research, Veterans Affairs Medical Center, Bedford, MA. 2004. Available at: [www.hosonline.org/globalassets/hos-online/publications/hos\\_veterans\\_12\\_imputation.pdf](http://www.hosonline.org/globalassets/hos-online/publications/hos_veterans_12_imputation.pdf). Accessed on: Dec 2, 2025.

The 2024 Cohort 27 Baseline PUF data do not include any case-mix adjusted scores. However, there are examples of case-mix adjustments of VR-12 scores from the HOS data in the *Sample Baseline* and the *Sample Performance Measurement Reports*, which are available from the [Resources](#) page on the HOS website.

### ***Additional Questions***

The HOS instrument also included questions on demographics, chronic medical conditions, Activities of Daily Living (ADLs), depression, physical health symptoms, height, and weight, as well as other questions.

#### *Demographics*

Demographics included questions on:

- beneficiary age,
- sex,
- race,
- education, and
- marital status.

#### *Chronic Medical Conditions*

Twelve chronic medical conditions were included in the questionnaire. These conditions were:

- hypertension,
- angina pectoris or coronary artery disease,
- congestive heart failure,
- myocardial infarction or heart attack,
- other heart conditions, such as heart valve defects or arrhythmias,
- stroke,
- emphysema, asthma, or Chronic Obstructive Pulmonary Disease (COPD),
- inflammatory bowel disease, including Crohn's disease and ulcerative colitis,
- osteoporosis,
- diabetes, hyperglycemia, or glycosuria,
- depression, and
- any cancer (other than skin cancer).

#### *Activities of Daily Living*

Six ADLs were included in the HOS survey to determine self-reported difficulty with performance of daily tasks. ADLs included:

- bathing,
- dressing,
- eating,
- getting in or out of chairs,
- walking, and
- using the toilet.

Three Instrumental Activities of Daily Living (IADLs) were included to assess independent living skills that are more complex than ADLs. IADL questions asked about:

- preparing meals,
- managing money, and
- taking medications.

#### *Depression Screening*

Since 2013, the HOS has included two questions that screen for depression. Each question is assigned points depending on the response given, from 0 (“Not at all”) to 3 (“Nearly every day”). The depression screen is considered positive when a respondent scores three points or greater on the combined total points from the two depression questions. Due to the change in questions, estimates of the proportion with positive depression screens using the 2013 HOS 2.5 or newer versions are not comparable to estimates produced using prior versions of the HOS.

#### *Healthy Days Measures*

In 2003, three Healthy Days questions from the CDC’s BRFSS were added to the HOS. They ask the number of days in the past 30 days that:

- physical health was not good,
- mental health was not good, and
- activities were limited due to poor physical or mental health.

#### *NCQA HEDIS Measures*

The following measures are a part of the Effectiveness of Care domain of HEDIS and were included in the HOS instruments:

- In 2003, four questions were added to support the *Management of Urinary Incontinence in Older Adults* (MUI) measure.
- In 2005, two questions were added to support the *Physical Activity in Older Adults* (PAO) measure.
- In 2006, four questions were added to support the *Fall Risk Management* (FRM) measure and one question was added to support the *Osteoporosis Testing in Older Women* (OTO) measure. As of the 2021 HOS survey administration year, the OTO measure has been retired by the measure steward, NCQA. OTO data are no longer available, and references to this measure have been removed.

#### ***New and Revised Fields***

There were no **new** fields in the 2024 Cohort 27 Baseline PUF compared with the 2023 Cohort 26 Baseline PUF.

There were no **revised** fields in the 2024 Cohort 27 Baseline PUF compared with the 2023 Cohort 26 Baseline PUF.

Selected field attributes (i.e., field name, type, length, or label) may have been modified for some fields included in the Cohort 27 Baseline PUF when compared to the same fields in previous HOS PUFs. Refer to the Field Index with Field Descriptions section for detailed information regarding all field attributes contained in the Cohort 27 Baseline PUF.

### ***Excluded Fields***

There were no fields **excluded** from the 2024 Cohort 27 Baseline PUF, compared with the 2023 Cohort 26 Baseline PUF.

### **Data Field Utilization Notes**

The HOS questionnaire contains multiple skip patterns. Exercise caution when interpreting responses to questions that involve skip patterns, as not every beneficiary was asked every question. Please refer to the Field Index with Field Descriptions section for additional information.

When the sampled beneficiary was unable to complete the survey, the HOS protocol allowed a proxy respondent. Surveys completed either by the respondents themselves or by proxy respondents are included in the PUF and are indicated in the Who Completed This Survey question (Field 75).

Beginning with the 2012 HOS, survey responses for the beneficiary's weight and height were obtained from open-ended questions at both baseline and follow up, instead of from categorical responses, as was the case in earlier versions of the survey.

In 2021, the response for "No pain" in the average pain rating question (Field 58) was changed from 1 to 0. Due to the change, the "No pain" response is not comparable with surveys prior to 2021.

# Characteristics of the Public Use File

## Field Overview

The 2024 Cohort 27 Baseline Medicare HOS included a random sample of 1,106,815 beneficiaries, including both those age 65 or older and those eligible because of disability, from 639 managed care plans. Of the 1,106,815 individuals sampled, 341,557 (30.86%) completed the baseline survey and were included in the CSV file. For the purposes of this data file, a completed survey was defined as a survey with at least one question item completed and a survey disposition code equal to M10, M11, M31, T10, T11, or T31. The Survey Disposition Field 76 in the Survey Administration Table lists a description of the codes. This PUF data file is a CSV file [55.3 megabytes (MB)]. There are 81 fields and 341,557 beneficiary records in the file. Each row in the file represents an individual's HOS survey responses, also referred to as a beneficiary record.

The PUF has been modified from the original 2024 Cohort 27 Baseline data file to preserve confidentiality at the beneficiary and plan levels. Many demographic and plan-level fields have been omitted from this file or have been collapsed into fewer categories (see Limitations and Categorization of the Data section). Sensitive beneficiary identifying fields (such as MBI, BLKEY, beneficiary name, etc.) have been removed and replaced with a unique nine digit randomly assigned code for each beneficiary's record.

The 81 fields in the C27B\_PUF.CSV data file are organized into three different groups:

- Identification and Demographics
- Survey Question Responses
- Survey Administration

## Field Description

The following content provides details for interpreting the specific fields in the data file.

### ***Identification and Demographics***

#### *Unique Identifier, Field: 1*

This is a unique nine-digit alphanumeric identifier that is randomly assigned for each beneficiary's record. Positions 1 through 3 identify the cohort in which the respondent was first surveyed. Positions 4 through 9 contain a random number. To permit comparisons across multiple baseline cohorts, beneficiaries are assigned the same blinded identifier they received in the initial baseline cohort. For example, if a beneficiary was surveyed in both Cohort 1 Baseline and Cohort 2 Baseline, the beneficiary's identifier in the Cohort 2 Baseline PUF will match the identifier assigned in the Cohort 1 Baseline PUF. The data are sorted by the unique identifier.

*Example: C27001097*

Source: Field created during production of the C27B\_PUF.CSV data file

*Age Group, Field: 2*

Age group of the beneficiary  
Source: CMS databases

*Race, Field: 3*

Self-reported race of the beneficiary  
Source: Q54 from survey

*Sex, Field: 4*

Self-reported sex of the beneficiary  
Source: Q52 from survey

*Marital Status, Field: 5*

Self-reported marital status of the beneficiary  
Source: Q56 from survey

*Education Level, Field: 6*

Self-reported educational attainment of the beneficiary  
Source: Q57 from survey

*Body Mass Index Category, Field: 7*

Calculated from the self-reported weight in pounds and height in feet and inches of the beneficiary  
Source: Q50 and Q51 from survey

***Survey Question Responses***

*VR-12 Questions, Fields: 8 through 21*

These fields represent the VR-12 questions, which can be found in Appendix 1 on pages 1-3 through 1-5 of the HEDIS Volume 6 manual. The VR-12 questions include Q1 through Q9 in the HOS questionnaire. Please refer to the Program Background section in this DUG for a more detailed description of the VR-12.

*Additional Questions, Fields: 22 through 75*

These fields comprise the balance of the survey questions found on pages 1-5 through 1-12 of the HEDIS Volume 6 manual, including most of the remaining questions in the HOS questionnaire (i.e., Q10 through Q62). The Program Background section provides more details about these questions. Selected demographic questions contained in the survey are not available in this PUF due to confidentiality issues. Please refer to the Limitations and Categorization of the Data section for more details.

***Survey Administration***

*Survey Disposition, Field: 76*

Identifies completion status and mode by which the survey was completed  
Source: CMS approved HOS Vendor

*Survey Round, Field: 77*

Mail or telephone stage in which survey was returned or when survey completion was last attempted by a vendor

Source: CMS approved HOS Vendor

*Percent of Survey Completed, Field: 78*

Percentage of the survey completed by the respondent

Source: Field created during the processing of the Cohort 27 Baseline data file

*Cohort Identifier, Field: 79*

Cohort in which the HOS surveys contained in this data file were submitted

NOTE: Value for each record will equal "C27"

Source: Field created during production of the C27B\_PUF.CSV data file

*CMS Region, Field: 80*

CMS Regional Office to which the plan belongs

Source: August 2024 Plan Contract List from the Health Plan Management System (HPMS)

*Survey Language, Field: 81*

Language in which the survey was completed

Source: CMS approved HOS Vendor

Further details of the contents of the PUF are available in the Field Index with Field Descriptions section of this DUG.

# Limitations and Categorization of the Data

Selected questions that appear in the 2024 HOS questionnaire are not available in this PUF data file and certain demographic fields were collapsed into fewer categories to maintain beneficiary confidentiality. Omitted demographic fields include homeownership, Hispanic ethnicity, beneficiary’s weight and height, specific language spoken at home (if not English, Spanish, Chinese, or Russian), and the name of the person who completed the survey. Many plan-related fields were also omitted to ensure plan confidentiality. The collapsed categories are outlined in the table below.

## Categorization of Selected Fields

Field	Scale in 27B_PUF.CSV	Scale in HOS Questionnaire
Race	<ul style="list-style-type: none"> <li>1 = White</li> <li>2 = Black or African American</li> <li>3 = Other</li> </ul>	<p>The survey race question allowed one or more response choices from the following categories:</p> <ul style="list-style-type: none"> <li>1 = White</li> <li>2 = Black or African American</li> <li>3 = American Indian or Alaska Native</li> <li>4 = Asian Indian</li> <li>5 = Chinese</li> <li>6 = Filipino</li> <li>7 = Japanese</li> <li>8 = Korean</li> <li>9 = Vietnamese</li> <li>10 = Other Asian</li> <li>11 = Native Hawaiian</li> <li>12 = Guamanian or Chamorro</li> <li>13 = Samoan</li> <li>14 = Other Pacific Islander</li> </ul>
Marital Status	<ul style="list-style-type: none"> <li>1 = Married</li> <li>2 = Non-Married</li> </ul>	<ul style="list-style-type: none"> <li>1 = Married</li> <li>2 = Divorced</li> <li>3 = Separated</li> <li>4 = Widowed</li> <li>5 = Never married</li> </ul>
Education Level	<ul style="list-style-type: none"> <li>1 = Less than a high school education or GED</li> <li>2 = High school education or GED</li> <li>3 = Greater than a high school education or GED</li> </ul>	<ul style="list-style-type: none"> <li>1 = 8th grade or less</li> <li>2 = Some high school, but did not graduate</li> <li>3 = High school graduate or GED</li> <li>4 = Some college or 2-year degree</li> <li>5 = 4-year college graduate</li> <li>6 = More than a 4-year college degree</li> </ul>
Body Mass Index (BMI) Category	<ul style="list-style-type: none"> <li>1 = Not obese (BMI &lt; 30)</li> <li>2 = Obese (BMI ≥ 30)</li> </ul>	<p>BMI Category</p> <ul style="list-style-type: none"> <li>1 = Underweight (BMI &lt; 18.5)</li> <li>2 = Normal (BMI 18.5 – &lt; 25)</li> <li>3 = Overweight (BMI 25 – &lt; 30)</li> <li>4 = Obese (BMI ≥ 30)</li> </ul>

# Field Index with Field Descriptions

The structure and fields of this PUF data file are listed in the following tables. They include the order, description, length, valid values, and any additional information for each field in the data file. All the codes shown as valid values may not be present in the data. Fields are presented in the same order as they exist in the data file. Fields contain numeric values except for data in field numbers 1, 76, 77, and 79. The data file is sorted by the unique identifier.

## Identification and Cohort 27 Baseline Demographics

Field #	Field Name Description	Field Type	Field Length	Valid Values and Notes
1	Unique Identifier	Char	9	A unique nine digit randomly assigned code for each beneficiary. <b>NOTE:</b> This field contains a character string. Example: C27001097
2	Age Group	Num	8	Age was calculated from the birth date, obtained from CMS data, and the survey date. 1 = Less than 65 2 = 65 to 74 3 = 75 and older
3	Race (Q54)	Num	8	<b>Note: The original codes (1-14) have been collapsed into the three groups shown below.</b> How would you describe your race? 1 = White 2 = Black or African American 3 = Other
4	Sex (Q52)	Num	8	Are you male or female? 1 = Male 2 = Female
5	Marital Status (Q56)	Num	8	<b>Note: The original codes (1-5) have been collapsed into the two groups shown below.</b> What is your current marital status? 1 = Married 2 = Non-Married
6	Education Level (Q57)	Num	8	<b>Note: The original codes (1-6) have been collapsed into the three groups shown below.</b> What is the highest grade or level of school that you have completed? 1 = Less than a high school education or GED 2 = High school education or GED 3 = Greater than a high school education or GED
7	Body Mass Index (BMI) Category	Num	8	BMI Category, calculated from beneficiary's self-reported weight and height. 1 = Not obese (BMI < 30) 2 = Obese (BMI ≥ 30)

## Survey Question Responses

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
8	General Health Question (Q1)	Num	8	In general, would you say your health is: 1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor
9	Moderate Activities Question (Q2a)	Num	8	The following items are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much? <b>Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf</b> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
10	Climbing Several Flights of Stairs Question (Q2b)	Num	8	The following items are about activities you might do during a typical day. Does <b>your health now limit</b> you in these activities? If so, how much? <b>Climbing several flights of stairs</b> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
11	Physical Health Limiting Amount Accomplished Question (Q3a)	Num	8	During the <b>past 4 weeks</b> , have you had any of the following problems with your work or other regular daily activities as a result of your physical health? <b>Accomplished less than you would like as a result of your physical health?</b> 1 = No, none of the time 2 = Yes, a little of the time 3 = Yes, some of the time 4 = Yes, most of the time 5 = Yes, all of the time
12	Physical Health Limiting the Kind of Activities Question (Q3b)	Num	8	During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of your physical health? <b>Were limited in the kind of work or other activities as a result of your physical health?</b> 1 = No, none of the time 2 = Yes, a little of the time 3 = Yes, some of the time 4 = Yes, most of the time 5 = Yes, all of the time

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
13	Emotional Problems Limiting Amount Accomplished Question (Q4a)	Num	8	<p>During the <b>past 4 weeks</b>, have you had any of the following problems with your work or other regular daily activities <b>as a result of any emotional problems</b> (such as feeling depressed or anxious)?</p> <p><b><u>Accomplished less than you would like as a result of any emotional problems</u></b></p> <p>1 = No, none of the time  2 = Yes, a little of the time  3 = Yes, some of the time  4 = Yes, most of the time  5 = Yes, all of the time</p>
14	Emotional Problems Limiting Carefulness Question (Q4b)	Num	8	<p>During the <b>past 4 weeks</b>, have you had any of the following problems with your work or other regular daily activities <b>as a result of any emotional problems</b> (such as feeling depressed or anxious)?</p> <p><b><u>Didn't do work or other activities as carefully as usual as a result of any emotional problems</u></b></p> <p>1 = No, none of the time  2 = Yes, a little of the time  3 = Yes, some of the time  4 = Yes, most of the time  5 = Yes, all of the time</p>
15	Pain Interfering with Work Question (Q5)	Num	8	<p>During the <b>past 4 weeks</b>, how much did <b>pain</b> interfere with your normal work (including both work outside the home and housework)?</p> <p>1 = Not at all  2 = A little bit  3 = Moderately  4 = Quite a bit  5 = Extremely</p>
16	Calm and Peaceful Question (Q6a)	Num	8	<p>These questions are about how you feel and how things have been with you during the <b>past 4 weeks</b>. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the <b>past 4 weeks</b>:</p> <p><b><u>Have you felt calm and peaceful?</u></b></p> <p>1 = All of the time  2 = Most of the time  3 = A good bit of the time  4 = Some of the time  5 = A little of the time  6 = None of the time</p>

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
17	Lots of Energy Question (Q6b)	Num	8	<p>These questions are about how you feel and how things have been with you during the <b>past 4 weeks</b>. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the <b>past 4 weeks</b>:</p> <p><u>Did you have a lot of energy?</u></p> <p>1 = All of the time  2 = Most of the time  3 = A good bit of the time  4 = Some of the time  5 = A little of the time  6 = None of the time</p>
18	Downhearted and Blue Question (Q6c)	Num	8	<p>These questions are about how you feel and how things have been with you during the <b>past 4 weeks</b>. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the <b>past 4 weeks</b>:</p> <p><u>Have you felt downhearted and blue?</u></p> <p>1 = All of the time  2 = Most of the time  3 = A good bit of the time  4 = Some of the time  5 = A little of the time  6 = None of the time</p>
19	Amount of Time Health Interfering with Social Activities Question (Q7)	Num	8	<p>During the <b>past 4 weeks</b>, how much of the time has your <b>physical health or emotional problems</b> interfered with your social activities (like visiting with friends, relatives, etc.)?</p> <p>1 = All of the time  2 = Most of the time  3 = Some of the time  4 = A little of the time  5 = None of the time</p>
20	Physical Health Compared to One Year Ago Question (Q8)	Num	8	<p><b>Compared to one year ago</b>, how would you rate your <b>physical health</b> in general <b>now</b>?</p> <p>1 = Much better  2 = Slightly better  3 = About the same  4 = Slightly worse  5 = Much worse</p>
21	Emotional Problems Compared to One Year Ago Question (Q9)	Num	8	<p><b>Compared to one year ago</b>, how would you rate your <b>emotional problems</b> (such as feeling anxious, depressed, or irritable) in general <b>now</b>?</p> <p>1 = Much better  2 = Slightly better  3 = About the same  4 = Slightly worse  5 = Much worse</p>

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
22	Bathing Question (Q10a)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities <b>without special equipment or help from another person?</b> <u>Bathing</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity
23	Dressing Question (Q10b)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities <b>without special equipment or help from another person?</b> <u>Dressing</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity
24	Eating Question (Q10c)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities <b>without special equipment or help from another person?</b> <u>Eating</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity
25	Getting In or Out of Chairs Question (Q10d)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities <b>without special equipment or help from another person?</b> <u>Getting in or out of chairs</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity
26	Walking Question (Q10e)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities <b>without special equipment or help from another person?</b> <u>Walking</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity
27	Using the Toilet Question (Q10f)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities <b>without special equipment or help from another person?</b> <u>Using the toilet</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity
28	Difficulty Preparing Meals Question (Q11a)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities? <u>Preparing meals</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I don't do this activity

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
29	Difficulty Managing Money Question (Q11b)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities? <u>Managing money</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I don't do this activity
30	Difficulty Taking Medication as Prescribed Question (Q11c)	Num	8	Because of a health or physical problem, do you have any difficulty doing the following activities? <u>Taking medication as prescribed</u> 1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I don't do this activity
31	Number of Days Physical Health Not Good Question (Q12)	Num	8	Now, thinking about your physical health, which includes physical illness and injury, for how many days during the <b>past 30 days</b> was your <b>physical health not</b> good? Please enter a number between "0" and "30" days. <b>If no days, please enter "0" days. Your best estimate would be fine.</b>
32	Number of Days Mental Health Not Good Question (Q13)	Num	8	Now, thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the <b>past 30 days</b> was your <b>mental health not</b> good? Please enter a number between "0" and "30" days. <b>If no days, please enter "0" days. Your best estimate would be fine.</b>
33	Number of Days Health Interfered with Daily Activities Question (Q14)	Num	8	During the <b>past 30 days</b> , for about how many days did <b>poor physical or mental health</b> keep you from doing your usual activities, such as self-care, work, or recreation? Please enter a number between "0" and "30" days. <b>If no days, please enter "0" days. Your best estimate would be fine.</b>
34	Blind or Serious Difficulty Seeing Question (Q15)	Num	8	Are you blind or do you have serious difficulty seeing, even when wearing glasses? 1 = Yes 2 = No
35	Deaf or Serious Difficulty Hearing Question (Q16)	Num	8	Are you deaf or do you have serious difficulty hearing, even with a hearing aid? 1 = Yes 2 = No
36	Difficulty Concentrating, Remembering, or Making Decisions Question (Q17)	Num	8	<b>Because of a physical, mental, or emotional condition</b> , do you have <b>serious</b> difficulty concentrating, remembering, or making decisions? 1 = Yes 2 = No
37	Difficulty Doing Errands Question (Q18)	Num	8	<b>Because of a physical, mental, or emotional condition</b> , do you have difficulty doing errands alone such as visiting a doctor's office or shopping? 1 = Yes 2 = No

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
38	Memory Problems Interfered with Activities in Past Month Question (Q19)	Num	8	In the <b>past month</b> , how often did memory problems interfere with your daily activities? 1 = Every day (7 days a week) 2 = Most days (5-6 days a week) 3 = Some days (2-4 days a week) 4 = Rarely (once a week or less) 5 = Never
39	Hypertension Question (Q20)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Hypertension or high blood pressure</u> 1 = Yes 2 = No
40	Angina or Coronary Artery Disease Question (Q21)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Angina pectoris or coronary artery disease</u> 1 = Yes 2 = No
41	Congestive Heart Failure Question (Q22)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Congestive heart failure</u> 1 = Yes 2 = No
42	Myocardial Infarction Question (Q23)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>A myocardial infarction or heart attack</u> 1 = Yes 2 = No
43	Other Heart Conditions Question (Q24)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Other heart conditions, such as problems with heart valves or the rhythm of your heartbeat</u> 1 = Yes 2 = No
44	Stroke Question (Q25)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>A stroke</u> 1 = Yes 2 = No
45	COPD Question (Q26)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Emphysema, or asthma, or COPD (chronic obstructive pulmonary disease)</u> 1 = Yes 2 = No
46	Inflammatory Bowel Disease Question (Q27)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Crohn's disease, ulcerative colitis, or inflammatory bowel disease</u> 1 = Yes 2 = No
47	Osteoporosis Question (Q28)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Osteoporosis, sometimes called thin or brittle bones</u> 1 = Yes 2 = No

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
48	Diabetes Question (Q29)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Diabetes, high blood sugar, or sugar in the urine</u> 1 = Yes 2 = No
49	Depression Question (Q30)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Depression</u> 1 = Yes 2 = No
50	Any Cancer Question (Q31)	Num	8	<b>Has a doctor <u>ever</u> told you that you had:</b> <u>Any cancer (other than skin cancer)</u> 1 = Yes <b>(Go to Q32)</b> 2 = No <b>(Go to Q33)</b>
51	Colorectal Cancer Treatment Question (Q32a)	Num	8	Are you <b>currently</b> under treatment for: <u>Colon or rectal cancer</u> 1 = Yes 2 = No
52	Lung Cancer Treatment Question (Q32b)	Num	8	Are you <b>currently</b> under treatment for: <u>Lung cancer</u> 1 = Yes 2 = No
53	Breast Cancer Treatment Question (Q32c)	Num	8	Are you <b>currently</b> under treatment for: <u>Breast cancer</u> 1 = Yes 2 = No
54	Prostate Cancer Treatment Question (Q32d)	Num	8	Are you <b>currently</b> under treatment for: <u>Prostate cancer</u> 1 = Yes 2 = No
55	Other Cancer Treatment Question (Q32e)	Num	8	Are you <b>currently</b> under treatment for: <u>Other cancer (other than skin cancer)</u> 1 = Yes 2 = No
56	Pain Interfered with Activities Question (Q33)	Num	8	In the <b>past 7 days</b> , how much did pain interfere with your day to day activities? 1 = Not at all 2 = A little bit 3 = Somewhat 4 = Quite a bit 5 = Very much
57	Pain Interfered with Socializing Question (Q34)	Num	8	In the <b>past 7 days</b> , how often did pain keep you from socializing with others? 1 = Never 2 = Rarely 3 = Sometimes 4 = Often 5 = Always

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
58	Average Pain Rating Question (Q35)	Num	8	In the <b>past 7 days</b> , how would you rate your pain on average? 0 = No Pain 1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8 9 = 9 10 = 10 (Worst imaginable pain)
59	Little Interest or Pleasure in Doing Things Question (Q36a)	Num	8	Over the <b>past 2 weeks</b> , how often have you been bothered by any of the following problems? <u>Little interest or pleasure in doing things</u> 1 = Not at all 2 = Several days 3 = More than half the days 4 = Nearly every day
60	Feeling Down, Depressed, or Hopeless Question (Q36b)	Num	8	Over the <b>past 2 weeks</b> , how often have you been bothered by any of the following problems? <u>Feeling down, depressed, or hopeless</u> 1 = Not at all 2 = Several days 3 = More than half the days 4 = Nearly every day
61	Comparative Health Question (Q37)	Num	8	In general, compared to other people your age, would you say that your health is: 1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor
62	Urine Leakage Question (Q38)	Num	8	Many people experience leakage of urine, also called urinary incontinence. In the <b>past six months</b> , have you experienced leaking of urine? 1 = Yes <b>(Go to Q39)</b> 2 = No <b>(Go to Q42)</b>
63	Leaking of Urine Interfering With Daily Activities Question (Q39)	Num	8	During the <b>past six months</b> , how much did leaking of urine make you change your daily activities or interfere with your sleep? 1 = A lot 2 = Somewhat 3 = Not at all
64	Talked with Doctor about Urine Leakage Question (Q40)	Num	8	Have you <b>ever</b> talked with a doctor, nurse, or other health care provider about leaking of urine? 1 = Yes 2 = No

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
65	Discussed Urine Leakage Problem Question (Q41)	Num	8	There are many ways to control or manage the leaking or urine, including bladder training, exercises, medication, and surgery. Have you <b>ever</b> talked with a doctor, nurse, or other health care provider about any of these approaches? 1 = Yes 2 = No
66	Talked with Doctor about Physical Activities Question (Q42)	Num	8	In the <b>past 12 months</b> , did you talk with a doctor or other health provider about your level of exercise or physical activity? For example, a doctor or other health provider may ask if you exercise regularly or take part in physical exercise. 1 = Yes <b>(Go to Q43)</b> 2 = No <b>(Go to Q43)</b> 3 = I had no visits in the last 12 months <b>(Go to Q44)</b>
67	Advised to Increase or Maintain Activities Question (Q43)	Num	8	In the <b>past 12 months</b> , did a doctor or other health provider advise you to start, increase or maintain your level of exercise or physical activity? For example, in order to improve your health, your doctor or other health provider may advise you to start taking the stairs, increase walking from 10 to 20 minutes every day or to maintain your current exercise program. 1 = Yes 2 = No
68	Talked to Doctor about Falling or Balance Problem Question (Q44)	Num	8	A fall is when your body goes to the ground without being pushed. In the <b>past 12 months</b> , did you talk with your doctor or other health provider about falling or problems with balance or walking? 1 = Yes 2 = No 3 = I had no visits in the past 12 months
69	Fell in Past 12 Months Question (Q45)	Num	8	Did you fall in the <b>past 12 months</b> ? 1 = Yes 2 = No
70	Problem with Walking or Balance in Past 12 Months Question (Q46)	Num	8	In the <b>past 12 months</b> , have you had a problem with balance or walking? 1 = Yes 2 = No

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
71	Talked to Doctor about How to Prevent Falls Question (Q47)	Num	8	Has your doctor or other health provider done anything to help prevent falls or treat problems with balance or walking? Some things they might do include: <ul style="list-style-type: none"> <li>• Suggest that you use a cane or walker.</li> <li>• Suggest that you do an exercise or physical therapy program.</li> <li>• Suggest a vision or hearing testing.</li> </ul> 1 = Yes 2 = No 3 = I had no visits in the past 12 months
72	Hours of Sleep Question (Q48)	Num	8	During the <b>past month</b> , on average, how many hours of actual sleep did you get at night? (This may be different from the number of hours you spent in bed.) <ul style="list-style-type: none"> <li>1 = Less than 5 hours</li> <li>2 = 5-6 hours</li> <li>3 = 7-8 hours</li> <li>4 = 9 or more hours</li> </ul>
73	Sleep Quality Question (Q49)	Num	8	During the <b>past month</b> , how would you rate your overall sleep quality? <ul style="list-style-type: none"> <li>1 = Very Good</li> <li>2 = Fairly Good</li> <li>3 = Fairly Bad</li> <li>4 = Very Bad</li> </ul>
74	Language Spoken at Home Question (Q55)	Num	8	What language do you <b>mainly</b> speak at home? <ul style="list-style-type: none"> <li>1 = English</li> <li>2 = Spanish</li> <li>3 = Chinese</li> <li>4 = Russian</li> <li>7 = Some other language (please specify)</li> </ul> Note: The language under option 7 is not specified in the PUF
75	Who Completed this Survey Question (Q61)	Num	8	Who completed this survey form? <ul style="list-style-type: none"> <li>1 = Person to whom survey was addressed</li> <li>2 = Family member or relative of person to whom the survey was addressed</li> <li>3 = Friend of person to whom the survey was addressed</li> <li>4 = Professional caregiver of person to whom the survey was addressed</li> </ul>

## Survey Administration

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
76	Survey Disposition	Char	3	<p><b>NOTE:</b> This field contains a character string.</p> <p>Survey disposition code:</p> <p>M10/T10 = completed survey (79.5-100% complete and all 6 ADLs answered in Q10a-f)</p> <p>M11/T11 = non-response: partial complete (50-79.5% complete, or 79.5-100% complete and &lt;6 ADLs answered)</p> <p>M31/T31 = non-response: break-off (0- 49% complete)</p> <p>Note: For survey disposition codes, M=Mail and T=Telephone</p>
77	Survey Round	Char	2	<p><b>NOTE:</b> This field contains a character string.</p> <p>Survey round code for completed, partially completed, and non-completed surveys by mail or telephone:</p> <p>M1 = 1<sup>st</sup> mailing M2 = 2<sup>nd</sup> mailing T1 = 1<sup>st</sup> telephone T2 = 2<sup>nd</sup> telephone T3 = 3<sup>rd</sup> telephone T4 = 4<sup>th</sup> telephone T5 = 5<sup>th</sup> telephone T6 = 6<sup>th</sup> telephone T7 = 7<sup>th</sup> telephone T8 = 8<sup>th</sup> telephone T9 = 9<sup>th</sup> telephone MT = Partially completed by mail and converted to complete by telephone TN = Inbound Telephone NC = Not completed</p>
78	Percent of Survey Completed	Num	8	Range: 0 to 100% (value is rounded to the tenths decimal place)
79	Cohort Identifier	Char	3	<p><b>NOTE:</b> This field contains a character string.</p> <p>Cohort in which the HOS surveys contained in this data file were submitted</p> <p>Value for each record = "C27"</p>

Field #	Field Description	Field Type	Field Length	Valid Values and Notes
80	CMS Region	Num	8	Derived from the CMS region field in the August 2024 Plan Contract List from HPMS 1 = Region 1 - Boston (CT, ME, MA, NH, RI, and VT) 2 = Region 2 - New York (NJ, NY, PR, and the VI) 3 = Region 3 - Philadelphia (DC, DE, MD, PA, VA, and WV) 4 = Region 4 - Atlanta (AL, FL, GA, KY, MS, NC, SC, and TN) 5 = Region 5 - Chicago (IL, IN, MI, MN, OH, and WI) 6 = Region 6 - Dallas (AR, LA, NM, OK, and TX) 7 = Region 7 - Kansas City (IA, KS, MO, and NE) 8 = Region 8 - Denver (CO, MT, ND, SD, UT, and WY) 9 = Region 9 - San Francisco (AZ, CA, Guam, HI, and NV) 10 = Region 10 - Seattle (AK, ID, OR, and WA)
81	Survey Language	Num	8	1 = English 2 = Spanish 3 = Not Applicable 4 = Chinese 5 = Russian