



# Medicare Health Outcomes Survey 2024 Cohort 27 Baseline Data Users Guide

Centers for Medicare & Medicaid Services Health Services Advisory Group





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# Preface

# **Medicare Health Outcomes Survey**

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) was 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 website and a full description of the program is available on the HOS website at www.HOSonline.org.

This HOS 2024 Cohort 27 Baseline **Data Users Guide** (DUG) is designed to assist users with the beneficiary level HOS 2024 Cohort 27 Baseline Research Identifiable File (RIF) and the corresponding HOS 2024 Cohort 27 Baseline Limited Data Set (LDS). The DUG includes an overview of the file organization, an explanation of derived fields, a table defining the attributes of all fields in the file, and a copy of the survey instrument annotated with the field names in the data file.

The 2024 Cohort 27 Baseline Reports were made available to participating MAOs via the CMS Health Plan Management System (HPMS) in November 2025. The MAO reports summarize the results for an individual MAO compared with the national HOS total. A sample MAO report is also available on the Sample Reports page of the Resources section on the HOS website. The sample report displays actual results for the HOS total, but uses hypothetical data for the MAO summaries. This report may be consulted for program background, methodology, design, and national HOS results.

# **Types of Research Files**

#### Limited Data Set

The HOS 2024 Cohort 27 Baseline LDS contains all records in the complete RIF, as well as most of the 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; beneficiary name, phone number, and mailing address; and 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 the HIPAA and Privacy Acts.

The research purpose must relate to projects that could ultimately improve the care provided to Medicare and Medicaid patients and policies that govern their care.

# Research Identifiable File

The complete HOS 2024 Cohort 27 Baseline RIF data file contains all fields, including the direct person identifiers and plan-level identifiers that are excluded in 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. Requests for RIF files must be reviewed by the CMS Privacy Board 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 with CMS is required to obtain either LDS or RIF data files. The Research Data Assistance Center (ResDAC) at the University of Minnesota is a CMS contractor that provides assistance to 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 RIF files. ResDAC may also be contacted by calling (888) 9RESDAC (888-973-7322) between the hours of 8am to 4pm CT Monday through Friday or by emailing 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 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 before 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 the HOS results as a component of the Medicare Plan Finder (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 or (888) 880-0077 is available to assist with questions regarding the data file. For a more detailed discussion on sampling, data collection, and submission, please refer to the *Healthcare Effectiveness Data and Information Set (HEDIS\*)* Measurement Year (MY) 2023, Volume 6: Specifications for the Medicare Health Outcomes Survey manual. 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.

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

<sup>&</sup>lt;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.

# Methodology

# **2024 Medicare Advantage Organization Participation**

The HOS is a longitudinal measure so MAOs that administer the Baseline Survey are required to administer the Follow Up Survey two years later. 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, were not required to report the Baseline HOS.

All Program of All-Inclusive Care for the Elderly (PACE) organizations with Medicare contracts in effect on or before January 1, 2023, and with a minimum enrollment of 30 beneficiaries as of February 1, 2024, were required by CMS to administer the HOS-Modified (HOS-M) in 2024.

MAOs sponsoring Fully Integrated Dual Eligible (FIDE) Special Needs Plans (SNPs) in 2024 could elect to report HOS or HOS-M at the 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 are as follows:

- The PBP that will be the FIDE SNP in 2024 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**

#### 2024 Cohort 27 Baseline Sampling

CMS identified beneficiaries who were eligible for sampling as follows:

- MAOs with fewer than 500 beneficiaries 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 drawn. 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. Since 2019, MAOs could also request oversampling if the contract's enrollment permits a sample size larger than the standard sample of 1,200. Oversampling was expressed as a whole percentage of the standard sample size. Since 2020, I-SNPs have been excluded from the HOS baseline.

The baseline survey sample was comprised of beneficiaries who completed the HOS in English, Spanish, or Chinese language versions of the mail survey. While no mail surveys were completed in Russian for the Cohort 27 Baseline, the Russian language option became available in 2019. For the telephone phase, a standardized version of an Electronic Telephone Interviewing System was used to collect interview data in English, Spanish, or Chinese. The Chinese language telephone protocol was added to the HOS in 2020.

## **Medicare HOS Instrument**

The core HOS health status items were collected with the HOS 3.0 for the Cohort 27 Baseline survey. Like the HOS 2.5, these items incorporate the Veterans RAND 12-Item Health Survey (VR-12).

Detailed information about the Medicare HOS instrument can be found on the HOS website along with a glossary of terms related to the survey that may be accessed from the "Glossary" link at the bottom of the site webpages. The survey instrument can be downloaded from NCQA's website.

# **Summary Measures**

#### VR-12

The key component of the HOS for assessment of the physical and mental health functioning is the VR-12 Health Survey.<sup>3</sup> The VR-12 consists of 14 items, 12 of which are used in the calculation of the eight health domains and the 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: 1) Physical Functioning, 2) Role-Physical, 3) Role-Emotional, 4) Bodily Pain, 5) Social Functioning, 6) Mental Health, 7) Vitality, and 8) General Health. Each domain aggregates one or two items and all eight domains are used to calculate the two summary measures, as illustrated in the VR-12 mapping model on the following page. 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. The field names for the 14 items begin with the prefix "B27VR" in the data file.

The PCS and MCS scores were calculated from the VR-12 using the Modified Regression Estimate (MRE) for scoring and imputation of missing data.<sup>4</sup> The MRE is a general method for obtaining scale scores for the eight domains in the context of missing data. The MRE uses complete cases to estimate a regression equation where only those items that are present are used.

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: <a href="https://www.bu.edu/sph/research/centers-and-groups/vr-36-vr-12-and-vr-6d/">https://www.bu.edu/sph/research/centers-and-groups/vr-36-vr-12-and-vr-6d/</a>. Accessed on: Sep 26, 2025.

<sup>&</sup>lt;sup>4</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.* 2007. Available at: https://hosonline.org/globalassets/hos- online/publications/veterans\_rand\_12\_item\_health\_survey\_vr-12\_2007.pdf. Accessed on: Sep 26, 2025.

Figure 1: Mapping of HOS VR-12 to Eight Health Domains and Two Summary Measures

Vitality

Social Functioning

Role Emotional

Mental Health

**Note:** Domains contributing the most to each summary measure are indicated by a solid line. Domains contributing to a lesser degree are indicated by a broken line; however, all domains contribute to some extent to the scoring of both summary measures (PCS and MCS).

# **Physical and Mental Component Summary Scores**

Q6b. A lot of Energy

Q7. Social Interference

Q4a. Accomplished Less

Q4b. Work Less Carefully

Q6a. Calm and Peaceful

Q6c. Downhearted/Blue

For those beneficiaries with complete responses across the VR-12, the following steps were taken to calculate PCS and MCS:<sup>5</sup>

- Step One: New variables were created for each response level choice with one level omitted. Using the 59 total response categories across the VR-12 questions, 47 indicator variables were created.
- Step Two: Aggregate PCS and MCS scores were created separately from a regression equation that weighted each of the 47 indicator variables. The weights were derived from the Veterans SF-36 PCS and MCS Scales using the 1999 Large Health Survey of Veteran Enrollees.
- Step Three: A constant was added to each of the estimates obtained from Step Two. The scores were then standardized using normative values from a 1990 U.S. general population. Therefore, a mean score of 50 represents the national average, a 10-point

**MCS** 

Spiro A, Rogers WH, Qian S, Kazis L. 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. Accessed on: Sep 26, 2025.

difference above and below the mean score is one standard deviation, and, with few exceptions, the scores have a range of 0 through 100 (higher being better).

When a beneficiary had missing data across the VR-12 items, PCS and MCS scores were imputed using the MRE. Using the MRE algorithm, PCS and MCS scores can be calculated in as many as 90% of the cases in which one or more VR-12 responses are missing. Depending on the pattern of missing item responses for a beneficiary, a different set of regression weights was required to compute that individual's PCS and/or MCS scores. For each combination of missing data, the beneficiaries' data were merged with the stored regression weights and the PCS or MCS scores were computed and then standardized using the normative values from Step Three.

Beneficiary PCS and MCS results were mode adjusted for the impact of telephone administration compared to the reference mode of mail administration. Comparisons across the VR-12 of matched HOS and Veterans Administration surveys for the same respondents showed that PCS and MCS scores were, on average, 1.9 and 4.5 points greater respectively for telephone compared to mail administered surveys. Therefore, for telephone surveys, 1.9 points were subtracted from the PCS score and 4.5 points were subtracted from the MCS score.

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 effect, absence of psychological distress, and no limitations in usual social and role activities due to emotional problems.

#### Case-Mix Adjustment for Comparison of MAOs at Baseline

Beneficiaries are not randomly assigned to MAOs. Therefore, unadjusted PCS and MCS scores may be biased by demographic and chronic health characteristics that are disproportionately represented in some MAOs. For this reason, the PCS and MCS scores were case-mix adjusted to allow for equitable comparisons across all MAOs. In the context of the HOS, case-mix refers to those beneficiary characteristics measured at baseline (such as age and the presence of chronic conditions) that are outside the control and influence of the MAO, but that may contribute to better or worse physical and/or mental health summary scores. Case-mix adjustment is a statistical technique that uses multiple regression models to control for those differences, thus allowing comparisons in performance and quality across MAOs.

Selim A, Iqbal SU, Rogers W, et al. Medicare Health Outcomes Survey: An Alternative Case-Mix Methodology. Technical Report prepared by: Center for Health Quality, Outcomes, and Economic Research, VA Medical Center, Bedford, Massachusetts. 2007. Available at: www.hosonline.org/globalassets/hosonline/publications/hos case mix final technical report.pdf. Accessed on: Sep 26, 2025.

Rogers WH, Gandek B, Sinclair SJ. Calculating Medicare Health Outcomes Survey Performance Measurement Results. Technical Report prepared by: Health Assessment Lab, Waltham, MA, The Health Institute, Department of Clinical Care Research, New England Medical Center, Boston, MA. 2004. Available at: www.hosonline.org/ globalassets/hos-online/publications/hos\_calculating\_pm\_results.pdf. Accessed on: Sep 26, 2025.

Models used to adjust the summary scores included variables to control for differences in demographic and socioeconomic characteristics, chronic medical conditions, and HOS study design variables.

- Sociodemographic characteristics included age, sex, race, education, marital status.
- Chronic medical conditions were measured from 12 questions about medical conditions.
- HOS study design variables included who completed the survey, CMS region, and the survey vendor.

Two different generalized linear regression models were used to adjust PCS and MCS scores since not all beneficiaries responded to all survey questions. Only one model, the most comprehensive model possible, was used to calculate an adjusted score for each beneficiary.

- Model One: If a beneficiary had complete data for all the covariates, then the adjusted scores were calculated using Model One, which contains all variables.
- Model Two: If a beneficiary did not have enough complete data for Model One, then Model Two was used. Age, sex, race, CMS region, and survey vendor were included in Model Two because they were available for all sampled beneficiaries.
- Adjusted MAO scores can only be calculated with use of the complete HOS dataset.

# **Data File Characteristics**

The file is a SAS<sup>®</sup> data set generated with SAS Version 9.4. There are no formats permanently associated with the variables. The file contains one record per beneficiary. Field names begin with the **B27** prefix to reflect the cohort number. There is a total of 208 fields and 1,106,815 beneficiary records in the Cohort 27 Baseline RIF data file. In the corresponding LDS, 31 person-level and plan-level identifiers have been removed, resulting in a total of 177 fields in the LDS file. Additionally, the contract number field B27CONTRACT has been replaced in the LDS with a blinded contract identifier **B27CONT\_ID**, and the plan population field B27PLPOP has been replaced in the LDS by a categorical population field **B27POPCAT**.

The baseline data file contains all beneficiaries from the national HOS sample, including survey respondents, non-respondents, and those identified as ineligible. Both senior (age 65 or older) and disabled (ages 18-65) beneficiaries are included. Respondents are defined as those for whom a PCS or MCS score can be calculated (B27PCS or B27MCS not equal to missing). The field B27INVSRV identifies beneficiaries as eligible (B27INVSRV=0) or ineligible (B27INVSRV=1). An ineligible beneficiary meets one of the following criteria: deceased; bad address and phone number; or language barrier.

The field B27ANALYT identifies senior respondents belonging to the analytic sample (B27ANALYT=1) or excluded from the analytic sample (B27ANALYT=0). The analytic sample includes all beneficiaries who met the following criteria:

- Completed the baseline survey, where a completed survey is one for which a PCS or MCS score can be calculated (B27PCS or B27MCS not equal to missing)
- Age 65 or older (B27AGE greater than or equal to 65)
- Were part of the quality reporting sample (B27HOSQRS=1)

The field B27PLANSTN is the state designation, which in most cases was assigned to the MAO from the 2024 Plan Contract List obtained from HPMS. A small number of MAOs were reassigned for consistency with previous HOS cohorts or because most beneficiaries resided in a different state from the one designated in HPMS. The Cohort 27 Baseline survey included several PFFS and Regional PPO contracts. These MAOs usually include beneficiaries from several states. Therefore, the PFFS and RPPO contracts were excluded from state-level totals in the 2024 Cohort 27 Baseline Report. They were, however, included in the national HOS totals in the report. A second state field B27RPTST was assigned the value of FS and RS for the PFFS and RPPO contracts, respectively. For all other MAOs, B27RPTST has the same value as B27PLANSTN. The field B27RPTST is the state level unit of analysis for the 2024 Cohort 27 Baseline Report. The field B27CONTRACT is the MAO-level unit of analysis for the 2024 Cohort 27 Baseline Report.

<sup>&</sup>lt;sup>8</sup> SAS<sup>®</sup> is a registered trademark of the SAS Institute Inc., Cary, NC.

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

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

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

Selected field attributes (i.e., field name, type, length, or label) may have been modified for some fields included in the Cohort 27 Baseline data file when compared to the same fields in previous HOS data files. Refer to Appendix A for detailed information regarding all field attributes contained in the Cohort 27 Baseline data file.

#### **Excluded Fields**

There were no fields excluded in the 2024 Cohort 27 Baseline data file compared with the 2023 Cohort 26 Baseline file.

#### **Field Overview**

The following is a general description of fields included in the Cohort 27 Baseline data file. The fields are listed in the order they appear in the SAS data file. CMS administrative fields were obtained from a combination of CMS databases. The field descriptions include all fields in the RIF file; however, fields that were excluded in the LDS file are shaded gray in the Appendix A Data File Layout table.

## Beneficiary and Contract Level Fields (Fields 1-4)

Fields in this section include the Medicare Beneficiary Identifier (MBI) number (B27MBIDNUM) and anonymous beneficiary and contract identification numbers. B27MBIDNUM is the unique Medicare identifier that replaced the Health Insurance Claim number and was the beneficiary level unit of analysis for the Medicare HOS 2024 Cohort 27 Baseline Report.

#### **Contract Level Fields (Fields 5-11)**

Most fields in this section are taken from the header record of the Cohort 27 Baseline data file and include information about the MAO's contract and plan identifiers. The contract number B27CONTRACT and plan identifier B27PLANID represent the member's contract assignment at the time of the baseline sampling in 2024. The CMS contract identifier B27CONTRACT is of the form Hxxxx or Rxxxx, where xxxx represents a unique four-digit number. Similarly, the plan identifier B27PLANID is of the form Hxxxx or Rxxxx, and is identical to B27CONTRACT. The contract number field B27CONTRACT was the MAO level unit of analysis for the Medicare HOS 2024 Cohort 27 Baseline Report. Please note that in the LDS file B27CONTRACT has been replaced by a blinded contract identifier B27CONT\_ID, and the B27PLANID was dropped.

#### Member Level Record Fields (Fields 12-51)

Most fields in this section are taken from the member level record of the baseline file and were obtained from CMS data at the time the sample files were created. The plan benefit package

(PBP) identifier, SNP type, HOS quality reporting sample indicator, a unique beneficiary link key ID (B27BLKEY), and phone numbers, as well as the beneficiary address fields (mailing address, county, state, and ZIP code), are included. B27PHONE is a character field that indicates the phone number used to successfully contact the beneficiary, if they participated in the Cohort 27 Baseline. The PBP identifier, B27PBPID, identifies the plan benefit package within a contract to which the beneficiary belongs at baseline. Each contract may contain one or more PBPs, and some PBPs are SNPs. B27SNPTYPE identifies the type of SNP PBP in which certain vulnerable beneficiaries are enrolled at baseline. Three types of special needs beneficiaries may be targeted for SNP enrollment: (1) beneficiaries with severe or disabling chronic conditions, (2) dual-eligible, and (3) the institutionalized.

Further information about SNPs, such as contract number, contract name, plan ID, enrollment, and type of medical condition(s) served, may be obtained from the SNP Comprehensive Report that is available on the CMS Medicare Advantage Part D Contract and Enrollment Data page on the CMS website. The FIDE SNP indicator B27FIDEIND identifies if a beneficiary is (0) not a member of a prospective FIDE SNP, or (1, 2, or 3) is a member of a prospective FIDE SNP. B27HOSQRS indicates if a beneficiary is (0) not in the quality reporting sample due to voluntary FIDE SNP reporting status, or (1) is in the quality reporting sample for collection of HOS quality measures (e.g., measures used in the Medicare Star Ratings). B27PBPID is a character variable which contains a three-digit number, filled with leading zeros, and corresponds to the PlanID column of the SNP Comprehensive Report. Beneficiary race, sex, date of birth, reason for entitlement, ESRD status, hospice status, Medicaid status, and Dual status are also included in this section. The field B27SRVIND indicates if a beneficiary was sampled for inclusion in (1) Cohort 27 Baseline only, (2) Cohort 25 Follow Up only, or (3) Cohort 27 Baseline and Cohort 25 Follow Up. Only values of 1 or 3 are valid for this data file.

#### Survey Fields (Fields 52-155)

This section contains survey fields from the 62 questions comprising the 2024 HOS 3.0 instrument. It includes beneficiary responses to questions pertaining to the VR-12 Health Survey, health status, demographics, activities of daily living, number of physically and mentally unhealthy days, chronic medical conditions, depression, urinary incontinence, physical activity, falls, sleep measures, height, weight, and the name of the person who completed the survey. The 12-item health survey portion of the HOS instrument (questions 1 [Q1] through 7 [Q7]) is used to obtain physical and mental health summary measures. The beneficiary's weight and height are found in B27WEIGHTLB, B27HEIGHTFT, and B27HEIGHTIN. These fields are obtained from open-ended weight and height questions.

## Survey Administration Fields (Fields 156-168)

For each beneficiary, the fields in this section include the disposition of the survey, the round in which the survey was obtained, the date the survey was completed, and the language in which the survey was completed. Other fields in this section include a flag for beneficiaries who have requested to be excluded from future HOS sampling and an ineligible survey flag. B27DISP indicates whether respondents completed the survey by mail or telephone. B27ADLCOUNT indicates the number of ADL questions answered in the survey (0-6). Other fields include the percentage of the survey that was completed and an indicator for a "complete" survey (with at

least 80% completion of the items + all 6 ADL questions answered).

#### SAS Dates (Fields 169-173)

This section provides SAS dates for date of birth, date of survey, date of enrollment into the plan, and enrollment limit. For beneficiaries with a missing survey date, a date of August 22, 2024. was imputed to represent the midpoint date of the sampling timeframe. This imputation was used to generate the SAS date field B27TSRVDATIM, which is equal to the original survey date except in those instances where a date has been imputed due to a missing survey date for the nonrespondents.

## Analytic Fields (Fields 174-186)

This section contains the baseline analytic fields used for analysis and reporting. Categorical fields include Body Mass Index (BMI), enrollment duration, age group, racial group, marital status, education level, number of chronic medical conditions, and a depression screen indicator. The beneficiary's baseline date of birth B27TDOB and the survey date field B27TSRVDATIM were used to derive the beneficiary's age at baseline B27AGE.

#### Summary Measures (Fields 187-191)

Included in this section are the unadjusted (B27PCS and B27MCS), the adjusted (B27ADJPCS and B27ADJMCS) PCS and MCS scores, and the unadjusted PFADL scale score (B27PFADL) used in the Cohort 27 Baseline analysis and reporting. Individual scale scores for the VR-12 are not available.

#### Analytical Sample Indicator Field (Field 192)

This section includes the baseline analytic sample indicator B27ANALYT, which indicates whether beneficiaries were seniors (age 65 or older), had calculable PCS or MCS scores, and were part of the HOS quality reporting sample. This field can be used to identify records that were included in the Cohort 27 Baseline analytic sample (1) or were not part of the analytic sample (0).

#### **Contract Characteristics Fields (Fields 193-208)**

Fields in this section provide contract characteristics, including plan type, tax status, organization name, parent organization name, plan population, state, and CMS region code. The information was obtained from the August 2024 HPMS Plan Contract List and the August 2024 CMS Monthly Enrollment by Contract Report of Medicare Advantage/Part D Health Plans. The CMS Monthly Report is available on the CMS website. The information links to the contract number field B27CONTRACT. (Please note that in the LDS file, the plan contract number field B27CONTRACT has been replaced with a blinded contract identifier B27CONT\_ID, and the plan population field B27PLPOP has been replaced by a categorical population field B27POPCAT.) Typically, plan state and CMS region designations are determined at the MAO level and are assigned to the state and region in which an MAO is reported. The reporting state field B27RPTST is the state level unit of analysis for the Medicare HOS 2024 Cohort 27 Baseline Report.

## **Data Field Utilization Notes**

- The HOS questionnaire contains multiple skip patterns. Caution should be exercised when examining questions that involve skip pattern responses. The skip patterns are indicated on the survey instrument in Appendix B.
- The demographic fields (race and sex) were obtained from CMS Medicare databases at the baseline sampling, and from the data provided by the respondent in the survey. Inconsistencies may exist between the CMS fields and the corresponding respondent survey data. Caution should be exercised when examining these fields.
- Since questions may be added or removed each year, some question numbers in this year's baseline survey may differ from previous years' surveys. Caution should be exercised when examining the data across multiple cohorts.
- In 2021, the response for "No pain" in the pain rate question (PAINRATE) was changed from 1 to 0. Due to the change, the "No pain" response is not comparable with surveys prior to 2021.

# **Appendix A**

# **2024 Cohort 27 Baseline Data File Specifications**

# Research Identifiable File (RIF)

There is a total of 208 fields in the baseline RIF, as indicated in the Field # column.

# **Limited Data Set (LDS)**

The LDS contains a total of 177 fields after the removal of 31 person-level and plan-level identifiers. The fields which were removed from the LDS are shaded gray in the table below.

# **Data File Layout by Position**

The following table describes the field attributes for the Cohort 27 Baseline data file. The fields are sorted in the order they appear in the file. The "Comments" column indicates where the field was obtained, and if applicable, how it was derived. For the survey level items, the exact text of each question can be obtained from Appendix B or by referring to the *HEDIS MY 2023*, *Volume 6* manual.<sup>2</sup>

Field #	Name/ Description	Type	Length	Valid Values	Comments
1	B27MBIDNUM	Char	11		Obtained from Sample File
	Medicare				Unique beneficiary identifier
	Beneficiary Identifier				Beneficiary level unit of
					analysis for the Cohort 27
					Baseline Report
2	B27PATID	Num	8		Derived field
	Anonymous				Unique beneficiary ID
	Beneficiary ID				May be used as a database key
					if personally identifiable fields
					(e.g., B27MDINUM) were
					removed.
3	B27PLAN	Num	8		Derived field
	Anonymous Plan ID				Unique plan ID
					May be used as a database key
					if plan identifiable fields (e.g.,
					B27PLANID) were removed.
4	B27RECID	Char	1		Obtained from Header Record
	Record ID				Every record contains a tilde "~"
					(not used)
5	B27RPTYR	Num	3		Obtained from Header Record
	Report Year				Reporting year for the Cohort
					27 Baseline sample

Field #	Name/ Description	Type	Length	Valid Values	Comments
6	B27CONTRACT Contract Number (in RIF)	Char	5		Obtained from Header Record B27CONTRACT in the RIF is the MAO level unit of analysis for
					the Cohort 27 Baseline Report  B27CONT_ID in the LDS is the
	B27CONT_ID Blinded Contract Number (in LDS).	Char	5		blinded Contract Number. May be used as the MAO level unit of analysis for the Cohort 27 Baseline LDS file.
7	B27PLAN_NAME Plan Name	Char	70		Obtained from Header Record MAO name
8	<i>B27VENDOR</i> Vendor	Num	8	1413= CSS 1415= DataStat, Inc. 1463= Press Ganey 630396= Qualtrics	Obtained from Header Record
9	B27NCQAORGID  NCQA Healthcare  Organization ID	Num	8		Obtained from Header Record
10	B27NCQASUBID NCQA Submission ID	Num	8		Obtained from Header Record
11	B27PLANID Plan ID	Char	5		Obtained from Sample File
12	B27PBPID Plan Benefit Package Number	Char	3		Obtained from the Sample File 3-digit number filled with leading zeros corresponding to PlanID in SNP Comprehensive Report on the CMS website
13	B27SNPTYPE Type of Special Needs Plan	Num	3	1 = Chronic or Disabling Condition 2 = Dual-Eligible 3 = Institutional	Obtained from Sample File
14	B27FIDEIND FIDE Applicant Frailty Assessment Indicator	Num	8	0 = Not an applicant 1 = Applicant not eligible for quality reporting 2 = Applicant only PBP in contract 3 = Applicant one of multiple PBPs in contract	Obtained from Sample File
15	B27FIDESST FIDE Applicant Sampling Stage Indicator	Num	8	0 = Not an applicant 1 = Stage 1 contract-level random sample 2 = Stage 2 Supplemental Sample; not previously selected 3 = Stage 2 Supplemental Sample; previously selected for Follow-Up	Obtained from Sample File

Field #	Name/ Description	Туре	Length	Valid Values	Comments
16	B27HOSQRS HOS Quality Reporting Sample Flag	Num	8	0 = HOS non-quality reporting sample (voluntary FIDE SNPs) 1 = HOS quality reporting sample	Obtained from Sample File
17	B27BLKEY Beneficiary Link Key	Char	13		Obtained from Sample File
18	B27PHONE Member Telephone with Successful Contact	Char	10	10 digit numeric	Generated by survey vendor
19	B27FNAME First Name	Char	15		Obtained from Sample File
20	B27MIDINIT Middle Initial	Char	1		Obtained from Sample File
21	B27LNAME Last Name	Char	24		Obtained from Sample File
22	B27ADDRESS1 Address Line 1	Char	30		Obtained from Sample File
23	B27ADDRESS2 Address Line 2	Char	30		Obtained from Sample File
24	B27ADDRESS3 Address Line 3	Char	30		Obtained from Sample File
25	B27CITY Member City	Char	22		Obtained from Sample File
26	<i>B27STATE</i> Member State	Char	22		Obtained from Sample File
27	<i>B27ZIP</i> Member Zip code	Char	22		Obtained from Sample File Zip + 4 separated by a hyphen
28	B27ADDRESS Combined Address (Member Address Fields)	Char	161		Derived by concatenating all address fields from Sample File
29	B27STATEABV State Abbreviation from State SSA Code	Char	2		Derived field Two letter state abbreviation derived from state SSA code B27STATECDE
30	B27STNAME State Name from State SSA Code	Char	20		Derived field State name derived from state SSA code B27STATECDE
31	B27STATECDE State SSA Code	Char	2		Obtained from Sample File Two digit state SSA code
32	B27CTNAME County Name from County SSA Code	Char	21		Derived field County name derived from county SSA code B27CNTYCDE
33	B27CNTYCDE County SSA Code	Char	3		Obtained from Sample File Three digit county SSA code

Field #	Name/ Description	Туре	Length	Valid Values	Comments
34	B27RACE	Num	3	0 = Unknown	Obtained from Sample File
	Race (CMS)			1 = White	·
	, ,			2 = Black	
				3 = Other	
				4 = Asian	
				5 = Hispanic	
				6 = North American Native	
35	B27SEX	Num	3	1 = Male	Obtained from Sample File
	Sex (CMS)			2 = Female	·
36	B27DOB	Char	8		Obtained from Sample File
	Date of Birth				Displayed as MMDDYYYY
37	B27DOD	Char	8		Obtained from Sample File
	Date of Death				(blank for all records)
38	B27DOE	Char	8		Obtained from Sample File
	Accretion Date to				Date of enrollment displayed as
	Plan				MMDDYYYY
39	B27DOT	Char	8		Obtained from Sample File
	Termination Date				(blank for all records)
40	B27ESRD	Num	3	0 = No ESRD	Obtained from CMS data
	ESRD Indicator			1 = ESRD	
41	B27INSTUT	Num	3	0 = Out of Institution	Obtained from CMS data
	Institutional Status			1 = Institutionalized	
				2 = Eligible for nursing home	
				care	
42	B27HOSPICE	Num	3	0 = No hospice start date	Obtained from CMS data
	Hospice Status			present	
				1 = Hospice start date	
				present	
43	B27MEDICAID	Num	3	0 = Out of Medicaid	Obtained from CMS data
	Medicaid Status			1 = In Medicaid (Full or	
				Partial Benefit in March)	
44	B27DUAL	Num	3	0 =Not Dual Status	Obtained from CMS data
	Dual Status			1 = Dual Status (Full Benefit	
				any time during the year)	
45	B27ENTITLE	Num	3	10 =Aged without ESRD	Obtained from Sample File
	Reason for			11 =Aged with ESRD	
	Entitlement			20 =Disabled without ESRD	
				21 =Disabled with ESRD	
		<b>.</b>	-	31 =ESRD only	
46	B27PROTID	Num	8	1 = English Follow-UpNo	Obtained from Sample File
	Protocol Identifier			Proxy at Baseline	
	Flag			2 = English Follow-UpProxy	
				at Baseline	
				3 = Baseline (all languages)	
				4 = Spanish Follow UpNo	
				Proxy at Baseline	
				5 = Spanish Follow UpProxy	
				at Baseline	
				6 = Chinese Follow UpNo	
				Proxy at Baseline	
				7 = Chinese Follow UpProxy	
				at Baseline	

Field #	Name/ Description	Туре	Length	Valid Values	Comments
47	B27RSPFNAME	Char	25		Obtained from Sample File
	First Name				·
	Respondent to				
	Cohort 25B Survey				
48	B27RSPLNAME	Char	25		Obtained from Sample File
	Last Name				·
	Respondent to				
	Cohort 25B Survey				
49	B27RSPPHONE	Char	10		Obtained from Sample File
	Telephone				·
	Respondent to				
	Cohort 25B Survey				
50	B27RESPB25	Char	51		Obtained from Sample File
	Combined Name				·
	Respondent to				
	Cohort 25B Survey				
51	B27SRVIND	Num	3	1 = BASE (baseline survey	Obtained from Sample File
	Survey Indicator			only)	(Only values of 1 and 3 are valid
				2 = FUR (follow-up survey	for the baseline data set.)
				only)	
				3 = FUBSR (both baseline and	
				follow-up surveys)	
52	B27VRGENHTH	Num	3	1 = Excellent	Entered from the survey
	Q1 General Health			2 = Very Good	(See Appendix B)
	Question			3 = Good	
				4 = Fair	
				5 = Poor	
53	B27VRMACT	Num	3	1 = Yes, limited a lot	Entered from the survey
	Q2a Health			2 = Yes, limited a little	(See Appendix B)
	Limitation-In			3 = No, not limited at all	
	moderate activities				
54	B27VRSTAIR	Num	3	1 = Yes, limited a lot	Entered from the survey
	Q2b Health			2 = Yes, limited a little	(See Appendix B)
	Limitation-Climbing			3 = No, not limited at all	
	several flights				
55	B27VRPACCL	Num	3	1 = No, none of the time	Entered from the survey
	Q3a Physical-			2 = Yes, a little of the time	(See Appendix B)
	Accomplished less			3 = Yes, some of the time	
	than you would like			4 = Yes, most of the time	
				5 = Yes, all of the time	
56	B27VRPWORK	Num	3	1 = No, none of the time	Entered from the survey
	Q3b Physical-Limited			2 = Yes, a little of the time	(See Appendix B)
	in work or activities			3 = Yes, some of the time	
				4 = Yes, most of the time	
				5 = Yes, all of the time	
57	B27VRMACCL	Num	3	1 = No, none of the time	Entered from the survey
	Q4a Emotional-			2 = Yes, a little of the time	(See Appendix B)
	Accomplished less			3 = Yes, some of the time	
	than you would like			4 = Yes, most of the time	
				5 = Yes, all of the time	

Field #	Name/ Description	Туре	Length	Valid Values	Comments
58	B27VRMWORK	Num	3	1 = No, none of the time	Entered from the survey
	Q4b Emotional-Did			2 = Yes, a little of the time	(See Appendix B)
	not do work or			3 = Yes, some of the time	
	activities as carefully			4 = Yes, most of the time	
				5 = Yes, all of the time	
59	B27VRPAIN	Num	3	1 = Not at all	Entered from the survey
	Q5 Pain-Interfered			2 = A little bit	(See Appendix B)
	with normal work			3 = Moderately	
				4 = Quite a bit	
				5 = Extremely	
60	B27VRCALM	Num	3	1 = All of the time	Entered from the survey
	Q6a Felt calm and			2 = Most of the time	(See Appendix B)
	peaceful			3 = A good bit of the time	
				4 = Some of the time	
				5 = A little of the time	
				6 = None of the time	
61	B27VRENERGY	Num	3	1 = All of the time	Entered from the survey
	Q6b Have a lot of			2 = Most of the time	(See Appendix B)
	energy			3 = A good bit of the time	
				4 = Some of the time	
				5 = A little of the time	
				6 = None of the time	
62	B27VRDOWN	Num	3	1 = All of the time	Entered from the survey
	Q6c Felt			2 = Most of the time	(See Appendix B)
	downhearted and			3 = A good bit of the time	
	blue			4 = Some of the time	
				5 = A little of the time	
				6 = None of the time	
63	B27VRSACT	Num	3	1 = All of the time	Entered from the survey
	Q7 Health Interfered			2 = Most of the time	(See Appendix B)
	with Social Activities			3 = Some of the time	
				4 = A little of the time	
				5 = None of the time	
64	B27VRPHCMP	Num	3	1 = Much better	Entered from the survey
	Q8 Physical Health			2 = Slightly better	(See Appendix B)
	compared to 1 Year			3 = About the same	
	Ago			4 = Slightly worse	
				5 = Much worse	
65	B27VRMHCMP	Num	3	1 = Much better	Entered from the survey
	Q9 Emotional Health			2 = Slightly better	(See Appendix B)
	compared to 1 Year			3 = About the same	
	Ago			4 = Slightly worse	
				5 = Much worse	
66	B27ADLBTH	Num	3	1 = No, I do not have	Entered from the survey
	Q10a Difficulty			difficulty	(See Appendix B)
	Bathing			2 = Yes, I have difficulty	
	-			3 = I am unable to do this	
1				activity	

Field #	Name/ Description	Туре	Length	Valid Values	Comments
67	B27ADLDRS Q10b Difficulty Dressing	Num	3	1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity	Entered from the survey (See Appendix B)
68	B27ADLEAT Q10c Difficulty Eating	Num	3	1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity	Entered from the survey (See Appendix B)
69	B27ADLCHR Q10d Difficulty Getting in or out of Chairs	Num	3	1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity	Entered from the survey (See Appendix B)
70	B27ADLWLK Q10e Difficulty Walking	Num	3	1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity	Entered from the survey (See Appendix B)
71	B27ADLTLT Q10f Difficulty Using Toilet	Num	3	1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I am unable to do this activity	Entered from the survey (See Appendix B)
72	B27DIFMEALS Q11a Difficulty Preparing Meals	Num	3	1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I do not do this activity	Entered from the survey (See Appendix B)
73	B27DIFMONEY Q11b Difficulty Managing Money	Num	3	1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I do not do this activity	Entered from the survey (See Appendix B)
74	B27DIFMEDS Q11c Difficulty Taking Medication as Prescribed	Num	3	1 = No, I do not have difficulty 2 = Yes, I have difficulty 3 = I do not do this activity	Entered from the survey (See Appendix B)
75	B27HDPHY Q12 Number of Days Physical Health Not Good	Num	3		Entered from the survey (See Appendix B)
76	B27HDMEN Q13 Number of Days Mental Health Not Good	Num	3		Entered from the survey (See Appendix B)
77	B27HDACT Q14 Number of Days Poor Health Interfered with Activities	Num	3		Entered from the survey (See Appendix B)

Field #	Name/ Description	Type	Length	Valid Values	Comments
78	B27DIFSEE	Num	3	1 = Yes	Entered from the survey
	Q15 Blind or Serious			2 = No	(See Appendix B)
	Difficulty Seeing				
79	B27DIFHEAR	Num	3	1 = Yes	Entered from the survey
	Q16 Deaf or Serious			2 = No	(See Appendix B)
	Difficulty				
	Hearing				
80	B27DIFREMEM	Num	3	1 = Yes	Entered from the survey
	Q17 Difficulty			2 = No	(See Appendix B)
	concentrating,				
	remembering, or				
	making decisions				
81	B27DIFERRND	Num	3	1 = Yes	Entered from the survey
	Q18 Difficulty doing			2 = No	(See Appendix B)
	errands				
82	B27DIFMPROB	Num	3	1 =Every day (7 days a week)	Entered from the survey
	Q19 Memory			2 =Most days (5-6 days a	(See Appendix B)
	problems interfered			week)	
	with activities in past			3 =Some days (2-4 days a	
	month			week)	
				4 =Rarely (once a week or	
				less)	
				5 =Never	
83	В27ССНВР	Num	3	1 = Yes	Entered from the survey
	Q20 Hypertension or			2 = No	(See Appendix B)
0.4	High Blood Pressure	Ni	2	4 V	Fortage of forms the assumption
84	B27CC_CAD	Num	3	1 = Yes 2 = No	Entered from the survey
	Q21 Angina Pectoris or Coronary Artery			2 = NO	(See Appendix B)
	Disease				
85	B27CC CHF	Num	3	1 = Yes	Entered from the survey
03	Q22 Congestive	Num	3	2 = No	(See Appendix B)
	Heart Failure				(occ Appendix D)
86	B27CCMI	Num	3	1 = Yes	Entered from the survey
	Q23 Myocardial		3	2 = No	(See Appendix B)
	Infarction or Heart			_	,
	Attack				
87	B27CCHRTOTH	Num	3	1 = Yes	Entered from the survey
	Q24 Other Heart			2 = No	(See Appendix B)
	Conditions				,
88	B27CCSTROKE	Num	3	1 = Yes	Entered from the survey
	Q25 Stroke			2 = No	(See Appendix B)
89	B27CC_COPD	Num	3	1 = Yes	Entered from the survey
	Q26 Emphysema, or			2 = No	(See Appendix B)
	Asthma, or COPD				
90	B27CCGI	Num	3	1 = Yes	Entered from the survey
	Q27 Inflammatory			2 = No	(See Appendix B)
	Bowel Diseases				
91	B27CCOSTEO	Num	3	1 = Yes	Entered from the survey
	Q28 Osteoporosis,			2 = No	(See Appendix B)
	or thin/brittle bones				

Field #	Name/ Description	Туре	Length	Valid Values	Comments
92	B27CCDIABET	Num	3	1 = Yes	Entered from the survey
	Q29 Diabetes, or			2 = No	(See Appendix B)
	high blood sugar, or				, ,
	sugar in the urine				
93	B27CCDEP	Num	3	1 = Yes	Entered from the survey
	Q30 Depression			2 = No	(See Appendix B)
94	B27CCANYCA	Num	3	1 = Yes	Entered from the survey
	Q31 Any Cancer			2 = No	(See Appendix B)
	(other than skin				, , ,
	cancer)				
95	B27CACOLON	Num	3	1 = Yes	Entered from the survey
	Q32a Under			2 = No	(See Appendix B)
	Treatment for Colon				
	Cancer				
96	B27CALUNG	Num	3	1 = Yes	Entered from the survey
	Q32b Under			2 = No	(See Appendix B)
	Treatment for Lung				
	Cancer				
97	B27CABRST	Num	3	1 = Yes	Entered from the survey
	Q32c Under			2 = No	(See Appendix B)
	Treatment for Breast				
	Cancer				
98	B27CAPROS	Num	3	1 = Yes	Entered from the survey
	Q32d Under			2 = No	(See Appendix B)
	Treatment for				
	Prostate Cancer				
99	B27CAOTHER	Num	3	1 = Yes	Entered from the survey
	Q32e Under			2 = No	(See Appendix B)
	Treatment for Other				
	Cancer				
100	B27PAINDACT	Num	3	1 = Not at all	Entered from the survey
	Q33 Pain interfered			2 = A little bit	(See Appendix B)
	with activities in past			3 = Somewhat	
	7 days			4 = Quite a bit	
				5 = Very much	
101	B27PAINSACT	Num	3	1 = Never	Entered from the survey
	Q34 Pain kept you			2 = Rarely	(See Appendix B)
	from socializing in			3 = Sometimes	
	past 7 days			4 = Often	
				5 = Always	
102	B27PAINRATE	Num	3	0 = 0 No pain	Entered from the survey
	Q35 Average pain			1 = 1	(See Appendix B)
	rating in past 7 days			2 = 2	
	(0=No pain,			3 = 3	
	10=Worst pain)			4 = 4	
				5 = 5	
				6 = 6	
				7 = 7	
				8 = 8	
				9 = 9	
				10 = 10 Worst imaginable	
				pain	

Field #	Name/ Description	Туре	Length	Valid Values	Comments
103	B27DEPNOPLS Q36a Little interest or pleasure in doing things in past 2 weeks	Num	3	1 = Not at all 2 = Several days 3 = More than half the days 4 =Nearly every day	Entered from the survey (See Appendix B)
104	B27DEPDOWN Q36b Feeling down, depressed, or hopeless in past 2 weeks	Num	3	1 = Not at all 2 = Several days 3 = More than half the days 4 = Nearly every day	Entered from the survey (See Appendix B)
105	B27CMPHTH Q37 General Health compared to peers	Num	3	1 = Excellent 2 = Very Good 3 = Good 4 = Fair 5 = Poor	Entered from the survey (See Appendix B)
106	B27MUILKG Q38 Urine Leakage in Past 6 Months	Num	3	1 = Yes 2 = No	Entered from the survey (See Appendix B)
107	B27MUIDACT Q39 Urine Leakage Changed Daily Activities	Num	3	1 = A lot 2 = Somewhat 3 = Not at all	Entered from the survey (See Appendix B)
108	B27MUITLK Q40 Talked with Doctor About Urine Leakage	Num	3	1 = Yes 2 = No	Entered from the survey (See Appendix B)
109	B27MUITRT Q41 Talked About Treatment for Urine Leakage	Num	3	1 = Yes 2 = No	Entered from the survey (See Appendix B)
110	B27PAOTLK Q42 Talked with Doctor About Physical Activities	Num	3	1 = Yes 2 = No 3 = I had no visits in the past 12 months	Entered from the survey (See Appendix B)
111	B27PAOADV Q43 Advised to Increase or Maintain Activities	Num	3	1 = Yes 2 = No	Entered from the survey (See Appendix B)
112	B27FRMTLK Q44 Talked with Doctor about Falling or Balance Problem	Num	3	1 = Yes 2 = No 3 = I had no visits in the past 12 months	Entered from the survey (See Appendix B)
113	B27FRMFALL Q45 Fell in Past 12 Months	Num	3	1 = Yes 2 = No	Entered from the survey (See Appendix B)
114	B27FRMBAL Q46 Problem with Walking or Balance in Past 12 Months	Num	3	1 = Yes 2 = No	Entered from the survey (See Appendix B)

Field #	Name/ Description	Туре	Length	Valid Values	Comments
115	B27FRMPREV	Num	3	1 = Yes	Entered from the survey
	Q47 Talked with			2 = No	(See Appendix B)
	Doctor about How			3 = I had no visits in the past	( )
	to Prevent Falls			12 months	
116	B27SLEEPHRS	Num	3	1 = Less than 5 hours	Entered from the survey
	Q48 Average Hours			2 = 5 – 6 hours	(See Appendix B)
	of Sleep per Night in			3 = 7 – 8 hours	, , ,
	Past Month			4 = 9 or more hours	
117	B27SLEEPQUA	Num	3	1 = Very Good	Entered from the survey
	Q49 Overall Sleep			2 = Fairly Good	(See Appendix B)
	Quality Rating in			3 = Fairly Bad	
	Past Month			4 = Very Bad	
118	B27WEIGHTLB	Num	8		Entered from the survey
	Q50 Weight in				(See Appendix B)
	pounds (lbs.)				
119	B27HEIGHTFT	Num	8		Entered from the survey
	Q51a Height in feet				(See Appendix B)
	(ft.) Portion of				
	Height Question				
120	B27HEIGHTIN	Num	8		Entered from the survey
	Q51b Height in				(See Appendix B)
	inches (in.) Portion				
	of Height Question				
121	B27SRVSEX	Num	3	1 = Male	Entered from the survey
	Q52 Survey Sex			2 = Female	(See Appendix B)
122	B27HPNOHISP	Num	3	0 = No, not Hispanic not	Entered from the survey
	Q53a No, not			checked	(See Appendix B)
	Hispanic, Latino/a or			1 = No, not Hispanic checked	
	Spanish origin				
123	B27HPMEX	Num	3	0 = Respondent did not	Entered from the survey
	Q53b Yes, Mexican,			check Mexican	(See Appendix B)
	Mexican American,			1 = Respondent checked	
	Chicano/a		_	Mexican	
124	B27HPPR	Num	3	0 = Respondent did not	Entered from the survey
	Q53c Yes, Puerto			check Puerto Rican	(See Appendix B)
	Rican			1 = Respondent checked	
125	D27UDCUDA	NI	2	Puerto Rican	Fotograph from the comment
125	B27HPCUBA	Num	3	0 = Respondent did not	Entered from the survey
	Q53d Yes, Cuban			check Cuban	(See Appendix B)
				1 = Respondent checked	
126	B27HPOTHER	Nivos	3	Cuban  0 = Respondent did not	Entered from the survey
126		Num	3	· · · · · · · · · · · · · · · · · · ·	-
	Q53e Yes, another			check Other Hispanic	(See Appendix B)
	Hispanic, Latino/a or			1 = Respondent checked Other Hispanic	
127	Spanish origin	Num	3	-	Entored from the survey
12/	B27RCWHITE	Num	3	0 = Respondent did not check White	Entered from the survey
	Q54a White				(See Appendix B)
				1 = Respondent checked	
				White	

Field #	Name/ Description	Туре	Length	Valid Values	Comments
128	B27RCAFRAM	Num	3	0 = Respondent did not	Entered from the survey
	Q54b Black or			check Black or African	(See Appendix B)
	African American			American	
				1 = Respondent checked	
				Black or African American	
129	B27RCNATAM	Num	3	0 = Respondent did not	Entered from the survey
	Q54c American			check American Indian or	(See Appendix B)
	Indian or Alaska			Alaska Native	
	Native			1 = Respondent checked	
				American Indian or	
				Alaska Native	
130	B27RCINDIA	Num	3	0 = Respondent did not	Entered from the survey
	Q54d Asian Indian			check Asian Indian	(See Appendix B)
				1 = Respondent checked	
				Asian Indian	
131	B27RCCHINA	Num	3	0 = Respondent did not	Entered from the survey
	Q54e Chinese			check Chinese	(See Appendix B)
				1 = Respondent checked	
				Chinese	
132	B27RCFILIP	Num	3	0 = Respondent did not	Entered from the survey
	Q54f Filipino			check Filipino	(See Appendix B)
				1 = Respondent checked	
				Filipino	
133	B27RCJAPAN	Num	3	0 = Respondent did not	Entered from the survey
	Q54g Japanese			check Japanese	(See Appendix B)
				1 = Respondent checked	
				Japanese	
134	B27RCKOREA	Num	3	0 = Respondent did not	Entered from the survey
	Q54h Korean			check Korean	(See Appendix B)
				1 = Respondent checked	
				Korean	
135	B27RCVIET	Num	3	0 = Respondent did not	Entered from the survey
	Q54i Vietnamese			check Vietnamese	(See Appendix B)
				1 = Respondent checked	
				Vietnamese	
136	B27RCOTHASN	Num	3	0 = Respondent did not	Entered from the survey
	Q54j Other Asian			check Other Asian	(See Appendix B)
				1 = Respondent checked	
				Other Asian	
137	B27RCHAWAII	Num	3	0 = Respondent did not	Entered from the survey
	Q54k Native			check Native Hawaiian	(See Appendix B)
	Hawaiian			1 = Respondent checked	
				Native Hawaiian	
138	B27RCGUAM	Num	3	0 = Respondent did not	Entered from the survey
	Q54l Guamanian or			check Guamanian or	(See Appendix B)
	Chamorro			Chamorro	
				1 = Respondent checked	
				Guamanian or Chamorro	
139	B27RCSAMOA	Num	3	0 = Respondent did not	Entered from the survey
	Q54m Samoan			check Samoan	(See Appendix B)
				1 = Respondent checked	
				Samoan	

Field #	Name/ Description	Туре	Length	Valid Values	Comments
140	B27RCOTHPAC Q54n Other Pacific Islander	Num	3	0 = Respondent did not check Other Pacific Islander 1 = Respondent checked Other Pacific Islander	Entered from the survey (See Appendix B)
141	B27SPEAKLNG Q55a Language Mainly Spoken at Home	Num	3	1 = English 2 = Spanish 3 = Chinese 4= Russian 7 = Some other language	Entered from the survey (See Appendix B)
142	B27SPEAKOTH Q55b Specify Other Language Spoken	Char	20		Entered from the survey (See Appendix B)
143	B27MARITAL Q56 Marital Status	Num	3	1 = Married 2 = Divorced 3 = Separated 4 = Widowed 5 = Never Married	Entered from the survey (See Appendix B)
144	B27EDUC Q57 Education Level	Num	3	1 = 8th Grade or less 2 = Some high school, but did not graduate 3 = High school graduate or GED 4 = Some college or 2 year degree 5 = 4 year college graduate 6 = More than a 4 year college degree	Entered from the survey (See Appendix B)
145	<i>B27LVALONE</i> Q58a Live alone	Num	3	0 = Respondent did not check live alone 1 = Respondent checked live alone	Entered from the survey (See Appendix B)
146	B27LVSPOUSE Q58b Live with spouse/significant other	Num	3	0 = Respondent did not check live with spouse 1 = Respondent checked live with spouse	Entered from the survey (See Appendix B)
147	B27LVCHILD Q58c Live with children/other relatives	Num	3	0 = Respondent did not check live with child/relative 1 = Respondent checked live with child/relative	Entered from the survey (See Appendix B)
148	B27LVNONREL Q58d Live with non- relatives	Num	3	0 = Respondent did not check live with non- relatives 1 = Respondent checked live with non-relatives	Entered from the survey (See Appendix B)
149	B27LVCAREGV Q58e Live with paid caregiver	Num	3	0 = Respondent did not check live with paid caregiver 1 = Respondent checked live with paid caregiver	Entered from the survey (See Appendix B)

Field #	Name/ Description	Туре	Length	Valid Values	Comments
150	B27WHERELV Q59 Where do you live	Num	3	1 = House, apartment, condominium, or mobile home 2 = Assisted living or board and care home 3 = Nursing home 4 = Other	Entered from the survey (See Appendix B)
151	B27HMOWN Q60 Homeowner Status	Num	3	1 = Owned or being bought by you 2 = Owned or being bought by someone in your family other than you 3 = Rented for money 4 = Not owned and you live in without payment of rent 5 = None of the above	Entered from the survey (See Appendix B)
152	B27CMPWHO Q61 Who completed Survey	Num	3	1 = Person to whom survey was addressed 2 = Family member or relative of person to whom survey was addressed 3 = Friend of person to whom survey was addressed 4 = Professional Caregiver of person to whom survey was addressed	Entered from the survey (See Appendix B)
153	B27CMPFNAME Q62a First Name Person Completing Survey	Char	25		Entered from the survey
154	B27CMPLNAME Q62b Last Name Person Completing Survey	Char	25		Entered from the survey
155	B27NMCOMP Q62 Combined Name Person Completing Survey	Char	51		Entered from the survey (See Appendix B)

Field #	Name/ Description	Туре	Length	Valid Values	Comments
156	B27SRVDISP	Char	3	M10/T10 = Complete survey	Derived by the survey vendor
	Survey Disposition			(79.5-100%	(M=Mail, T=Telephone)
				complete and all 6	
				ADLs answered in	
				Q10a-f)	
				M11/T11 = Non-response:	
				partial survey (50-	
				79.5% complete,	
				or 79.5-100%	
				complete and <6	
				ADLs answered)	
				Ineligible:	
				M20/T20 = Deceased	
				M23/T23 = Language barrier	
				T24 = Bad address AND	
				phone number	
				M25 = Removed from	
				sample	
				Non-response:	
				M31/T31 = Break-off (0-49%	
				complete)	
				M32/T32 = Refusal	
				M33/T33 = Unavailable	
				M34/T34 = Physically or	
				mentally	
				incapacitated M35/T35 = Institutionalized	
				M36/T36 = After maximum	
				attempts	
157	B27SRVMODE	Char	2	M1 = 1 <sup>st</sup> mailing	Derived by the survey vendor
137	Round Survey	Cital	2	$M2 = 2^{nd} \text{ mailing}$	(M=Mail, T=Telephone)
	Obtained			T1 = 1 <sup>st</sup> telephone	(IVI=IVIAII, T=Telephone)
	Obtained			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	
158	B27SRVLANG	Num	3	1 =English	Generated by the survey vendor
	Survey Language			2 =Spanish	, , , , , , , , , , , , , , , , , , , ,
				3 =Not applicable	
				4 =Chinese	
				5 =Russian	

Field #	Name/ Description	Туре	Length	Valid Values	Comments
159	B27SRVDATE Date Survey Completed	Char	8		Date the mail survey was received by the vendor or the date the telephone interview was conducted Displayed as MMDDYYYY
160	B27VUCATI Vendor Unique CATI ID	Char	11		Indicates which telephone interviewer conducted the interview
161	B27MCONUM MCO Provided Phone Number	Num	3	1 = Yes 2 = No	Generated by the survey vendor
162	B27EXCLUDE Request to be Excluded	Num	3	<ul> <li>1 = Member requested "Take me off your list and/or never contact me again"</li> <li>2 = Member did not request "Take me off your list and/or never contact me again"</li> </ul>	Generated by the survey vendor
163	B27PCTANS Percent of Survey Answered	Num			Derived by the survey vendor
164	B27DISP Survey Disposition Indicator	Num	3	1 = Mail Survey Completed 2 = Telephone Survey Completed	Derived field
165	B27INVSRV Ineligible Survey Flag	Num	3	0 = Eligible 1 =Ineligible	Derived field Ineligible defined as B27SRVDISP values of M20/T20 = Ineligible: deceased M23/T23 = Ineligible: language barrier T24 = Ineligible: bad address AND phone number M25 = Ineligible: removed from sample
166	B27ADLCOUNT Count of ADL Questions Answered (0-6)	Num	3		Derived field
167	B27CMPSRV Completed Survey (80% + All 6 ADLs Criteria)	Num	3	0 = Incomplete Survey 1 = Completed Survey (80% criteria + 6 ADLs answered)	Derived field
168	B27CMPFLG Name Provided in Q62 Flag	Num	3	0 = Name Not Provided 1 = Name Provided for person completing survey	Derived field
169	B27TDOB SAS Date of Birth	Num	8		Derived field SAS date for B27DOB MMDDYY10. format
170	B27TSRVDAT SAS Date of Survey	Num	8		Derived field SAS date for B27SRVDAT MMDDYY10. format

Field #	Name/ Description	Type	Length	Valid Values	Comments
171	B27TDOE	Num	8		Derived field
	SAS Date of				SAS date for date of enrollment
	Accretion into Plan				B27DOE
					MMDDYY10. format
172	B27TSRVDATIM	Num	8		Derived field
	SAS Date of Survey				If B27SRVDATE missing, then
	(Missing Imputed)				B27TSRVDATIM=Aug 22, 2024
					Otherwise
					B27TSRVDATIM=B27SRVDATE
			_		MMDDYY10. format
173	B27TDOELMT	Num	8		Derived field
	SAS Date of				SAS date for date of enrollment
	Accretion Limit -				limit B27DOELMT
	06/01/2024				(06/01/2024 for all records)
174	B27BMI	Num	8		MMDDYY10. format  Derived field
1/4	Calculated Body	Num	٥		BMI = (weight / height <sup>2</sup> )*703
	Mass Index				Units: weight in pounds
	Iviass index				height in inches
175	B27BMICAT	Num	8	1 = Underweight (BMI <18.5)	Derived from B27BMI
1/3	Categories of Body	Num	0	2 = Normal (BMI 18.5 - <25)	Derived Holli B27 Bivii
	Mass Index			3 = Overweight (BMI 25 -	
	Widss Midex			<30)	
				4 = Obese (BMI ≥30)	
				. 02030 (5.11.1 230)	
176	B27AGE	Num	8		Derived field
	Age (Exact				Calculated by counting the
	Calculation)				number of months between the
					SAS date fields B27TDOB and
					B27TSRVDATIM, then dividing
					the result by 12 to produce an
					integer value for the whole
					number of years for the
					beneficiary's age.
177	B27AGECAT	Num	8	0 = less than 65 years	Derived from B27AGE
	Age Groups (6			1 = 65 to 69 years	
	Categories from			2 = 70 to 74 years	
	Calculated AGE)			3 = 75 to 79 years	
				4 = 80 to 84 years	
470	D27D465647		-	5 = 85 years or older	B : 16
178	B27RACECAT	Num	8	1 = White	Derived from the CMS Race
	Race Groups (3			2 = Black	field B27RACE
	Categories from			3 = Other	
	CMS Race)				

Field #	Name/ Description	Туре	Length	Valid Values	Comments
179	<i>B27HISPANA</i> Hispanic Indicator derived from Q53a-e	Num	8	1 = Yes, Hispanic or Latino 2 = No, not Hispanic or Latino	Derived field Corresponds to HISPAN variable in previous cohorts. HISPANA=1 if selects one or more Hispanic categories in Q53b-e (HPMEX, HPPR, HPCUBA, or HPOTHER=1) and does not select Q53a "No, not Hispanic, Latino/a or Spanish origin" (HPNOHISP=0). HISPANA=2 if HPNOHISP=1 and Q53b-e=0.
180	B27ENRDUR Enrollment Duration (Months)	Num	8		Derived field Enrollment duration in months: (B27TDOELMT-B27TDOE)/30
181	B27ENRCAT Enrollment Duration Categories	Num	8	1 = less than 6 months 2 = 6 to 12 months 3 = 13 to 36 months 4 = 37 months or more	Derived from B27ENRDUR
182	B27MARCAT Marital Status Using Combined Groups	Num	3	1 = Married 2 = Divorced or Separated 3 = Widowed 4 = Never married	Derived from B27MARITAL
183	B27EDCAT Educational Status Using Combined Groups	Num	3	1 = Did not graduate high school 2 = High school graduate or GED 3 = Some college or 2 year degree 4 = 4 year college degree or beyond	Derived from B27EDUC
184	B27DEP2SCRN Positive Depression Screen	Num	3	0 = Negative 1 =Positive	Derived field Positive: Score of 3 or greater for sum of Q36a and Q36b (responses coded from 0-3) when both questions are answered
185	B27COMO Number of Chronic Medical Conditions	Num	3		Derived field Total number of "Yes" answers to Q20 through Q31
186	B27COMOCT Number of Chronic Medical Conditions Category	Num	3	0 = No conditions 1 = One condition 2 = Two conditions 3 = Three conditions 4 = Four or more conditions	Derived from B27COMO
187	B27PCS Physical Component Summary (PCS) Score	Num	8		Derived field Unadjusted PCS score
188	B27MCS Mental Component Summary (MCS) Score	Num	8		Derived field Unadjusted MCS score

Field #	Name/ Description	Туре	Length	Valid Values	Comments
189	B27ADJPCS	Num	8		Derived field
	Adj. Physical				Case mix adjusted PCS score
	Component				
	Summary Score				
190	B27ADJMCS	Num	8		Derived field
	Adj. Mental				Case mix adjusted MCS score
	Component				
	Summary Score				
191	B27PFADL	Num	8		Derived field
131	Baseline PFADL	IVaiii	O		Unadjusted PFADL scale score
	Scale, 0-16 Higher is				onadjusted i i i i i i i i i i i i i i i i i i i
	Better				
192	B27ANALYT	Num	8	0 = Not included in analytic	Derived field
	Baseline Analytic			sample	Respondents 65 years or older,
	Indicator			1 = Included in analytic	with a calculable PCS or MCS
				sample	score, and in the quality
					reporting sample
					(B27HOSQRS=1) were included
193	B27MONRPT	Num	8		in the analytic sample SAS date of CMS Monthly
193	Monthly Report	INUITI	0		Enrollment by Contract Report
	Date - source CMS				of Medicare Advantage/Part D
	08/24				Health Plans
	,				August 2024 for all records
					MMDDYY10. format
194	B27PLTYPE	Char	39		Obtained from the August 2024
	Plan Type - source				CMS Monthly Enrollment by
	CMS 08/24				Contract Report of Medicare
405	D2701 00 CA1A 4	CI	F.4		Advantage/Part D Health Plans
195	B27PLORGNM	Char	54		Obtained from the August 2024  CMS Monthly Enrollment by
	Plan Organization Name - source CMS				Contract Report of Medicare
	08/24				Advantage/Part D Health Plans
196	B27PLPTORG	Char	50		Obtained from the August 2024
	Plan Parent	5.101			CMS Monthly Enrollment by
	Organization -				Contract Report of Medicare
	source CMS 08/24				Advantage/Part D Health Plans
197	B27PLMEDP	Char	82		Obtained from the August 2024
	Plan Medicare				CMS Monthly Enrollment by
	Product Name -				Contract Report of Medicare
	source CMS 08/24				Advantage/Part D Health Plans
198	B27PLPOP	Num	8		Obtained from the August 2024
	Plan Population -				CMS Monthly Enrollment by
	source CMS 08/24				Contract Report of Medicare Advantage/Part D Health Plans
					Auvuntuge/Purt D Health Plans

Field #	Name/ Description	Туре	Length	Valid Values	Comments
199	B27POPCAT Plan population categories	Num	8	1 = 1,200 or less 2 = 1,201 - 3,000 3 = 3,001 - 5,000 4 = 5,001 - 10,000 5 = 10,001 - 15,000 6 = 15,001 - 25,000 7 = 25,001 - 50,000 8 = 50,001 - 100,000 9 = 100,001 or more	Categories of plan population were derived from B27PLPOP
200	B27PLSTDT Plan Start Date - source CMS 08/24	Num	8		Obtained from the August 2024 CMS Monthly Enrollment by Contract Report of Medicare Advantage/Part D Health Plans MMDDYY10. format
201	B27PLANSTN Plan State - source HPMS 08/24	Char	2		Obtained from the August 2024 Plan Contract List from HPMS
202	B27PLREGN Plan CMS Region - source HPMS 08/24	Char	13		Obtained from the August 2024 Plan Contract List from HPMS
203	B27PLREGCDE Plan CMS Region Code	Num	3	1 = Region 1 - Boston (CT, ME, MA, NH, RI, VT) 2 = Region 2 - New York (NJ, NY, PR, VI) 3 = Region 3 - Philadelphia (DC, DE, MD, PA, VA, WV) 4 = Region 4 - Atlanta (AL, FL, GA, KY, MS, NC, SC, TN) 5 = Region 5 - Chicago (IL, IN, MI, MN, OH, WI) 6 = Region 6 - Dallas (AR, LA, NM, OK, TX) 7 = Region 7 - Kansas City (IA, KS, MO, NE) 8 = Region 8 - Denver (CO, MT, ND, SD, UT, WY) 9 = Region 9 - San Francisco (AZ, CA, Guam, HI, NV) 10 = Region 10 - Seattle (AK, ID, OR, WA)	Derived from the CMS region field in the August 2024 Plan Contract List from HPMS
204	B27PLTAXST Plan Tax Status - source HPMS 08/24	Char	25		Obtained from the August 2024 Plan Contract List from HPMS
205	B27PLDUR Duration of Plan Contract - Years	Num	8		Derived field Duration of plan contract in years: (B27TDOELMT- B27PLSTDT) /365.25

Field #	Name/ Description	Туре	Length	Valid Values	Comments
206	B27PLNDCT	Num	8	1 = less than 1 year	Derived from B27PLDUR
	Duration of Plan			2 = 1 to 4 years	
	Contract Categories			3 = 5 to 9 years	
				4 = 10 years or more	
207	B27RPTST	Char	2	FS = Private Fee-for-Service	Derived field
	Reporting Plan State			RS = Regional PPO	State level unit of analysis for
				All other values are identical	the Cohort 27 Baseline Report
				to state codes from the	
				B27PLANSTN field	
208	B27GEOCAT	Num	8	1 = Metropolitan	Derived from B27 HOS
	HOS Geographic			2 = Micropolitan	Geographic County Designation
	County Designation			3=Rural	

# **Appendix B (Annotated Survey Form)**

# **2024 Medicare Health Outcomes Survey**

1.	In general, would you say you	ır health is:	b. Were limited in the <b>kind</b> o	f work or
	Excellent	B27VRGENHTH	other activities <b>as a result</b>	
	Very good		physical health?	B27VRPWORK
	2		No, none of the tim	
	Good		Yes, a little of the ti	
	<sub>4</sub> Fair		2	
	Poor		₃ Yes, some of the tin	ıe
2.	The following items are abou	t activities	4 Yes, most of the tim	e
۷.	you might do during a typical		<sub>5</sub> Yes, all of the time	
	your health <u>now</u> limit you in		4. During the past 4 weeks, ha	•
	activities? If so, how much?		any of the following problem	
	a. Moderate activities, such a	as moving a	work or other regular daily a	
	table, pushing a vacuum cle	eaner,	result of any emotional prol	•
	bowling, or playing golf	327VRMACT	as feeling depressed or anxional as Accomplished less than yo	•
	Yes, limited a lot	SZ7 VIIIVIACT	as a result of any emotion	
	Yes, limited a little		No, none of the time	B27VRMACCL
	2		1	
	No, not limited at all		Yes, a little of the tim	e
	b. Climbing <b>several</b> flights of s	stairs	Yes, some of the time	
	Yes, limited a lot	B27VRSTAIR	Yes, most of the time	
	Yes, limited a little		4	
	No, not limited at all		Yes, all of the time	
2	3	a vou had any	b. Didn't do work or other ac	
3.	During the <b>past 4 weeks</b> , have of the following problems with	-	carefully as usual as a resu	alt of any
	or other regular daily activities	•	emotional problems	B27VRMWORK
	of your physical health?		No, none of the time	
	a. Accomplished less than you	u would like	Yes, a little of the tim	e
	as a result of your physical	health?	Yes, some of the time	<u>)</u>
	$_{1}$ No, none of the time	B27VRPACCL	Yes, most of the time	
	Yes, a little of the time		4	
	2		<sub>5</sub> Yes, all of the time	
	Yes, some of the time			
	Yes, most of the time			
	Yes, all of the time			
	5—			

5. During the past 4 wee	<b>ks,</b> how much did	c. Have you felt downhearte	d and blue?			
pain interfere with you		All of the time	B27VRDOWN			
(including both work o	utside the home	Most of the time	B27VKDOVIN			
and housework)?	B27VRPAIN	2				
Not at all	DZ/VRPAIN	3 A good bit of the ti	me			
A little bit		Some of the time				
3 Moderately		A little of the time				
<sub>4</sub> Quite a bit		None of the time				
<sub>5</sub> Extremely		7. During the <b>past 4 weeks</b> , ho time has your <b>physical healt</b>				
		emotional problems interfe				
These questions are abou		social activities (like visiting	•			
how things have been wit		relatives, etc.)?				
past 4 weeks. For each quithe one answer that com		All of the time	B27VRSACT			
you have been feeling.	es closest to the way	Most of the time				
6. How much of the time	during the past 4	2				
weeks:		Some of the time				
a. Have you felt calm	and peaceful?	A little of the time				
$_{1}$ All of the time	B27VRCALM	None of the time				
Most of the tir	ne	Now, we'd like to ask you some questions about how your health may have changed.  8. Compared to one year ago, how would you rate your physical health in general now?				
A good bit of t	he time					
3 -						
Some of the ti	me					
A little of the t	ime	Much better	B27VRPHCMP			
None of the tir	me	Slightly better				
b. Did you have a lot o	0,	3 About the same				
All of the time	B2/VRENERGY	Slightly worse				
Most of the tir		Much worse				
A good bit of t	ne time	9. Compared to one year ago,				
Some of the ti	me	you rate your <b>emotional pro</b>				
A little of the t	ime	as feeling anxious, depressed	d or irritable)			
5		in general <b>now?</b>				
<sub>6</sub> None of the tir	ne	Much better	B27VRMHCMP			
		Slightly better				
		About the same				
		Slightly worse				
		Much worse				

Earlier in the survey you were asked to	11. Because of a health or physical problem,		
indicate whether you have any limitations in	do you have any difficulty doing the		
your activities. We are now going to ask a few	following activities?		
additional questions in this area.	a. Preparing meals B27DIFMEALS		
10. Because of a health or physical problem,	No, I do not have difficulty		
do you have any difficulty doing the following activities without special	Yes, I have difficulty		
equipment or help from another person?	I don't do this activity		
a. Bathing B27ADLBTH	3 <u> </u>		
No, I do not have difficulty			
Yes, I have difficulty	No, I do not have difficulty  Yes, I have difficulty		
I am unable to do this activity	I don't do this activity		
b. Dressing B27ADLDRS	c. Taking medication as prescribed		
No, I do not have difficulty	No, I do not have difficulty		
Yes, I have difficulty	Yes, I have difficulty  B27DIFMEDS		
I am unable to do this activity	I don't do this activity		
c. Eating B27ADLEAT	3		
No, I do not have difficulty	These next questions ask about your physical		
Yes, I have difficulty	and mental health during the past 30 days.		
2	12. Now, thinking about your physical health,		
<sub>3</sub> I am unable to do this activity	which includes physical illness and injury,		
d. Getting in or out of chairs  B27ADLCHR	for how many days during the past 30		
No, I do not have difficulty	days was your physical health not good?		
	Please enter a number between "0" and		
Yes, I have difficulty	"30" days. If no days, please enter "0"		
I am unable to do this activity	days. Your best estimate would be fine.		
e. Walking B27ADLWLK	days B27HDPHY		
No. I do not have difficulty	13. Now, thinking about your mental health,		
<u></u>	which includes stress, depression, and		
Yes, I have difficulty	problems with emotions, for how many		
I am unable to do this activity	days during the past 30 days was your		
f. Using the toilet B27ADLTLT	mental health not good?		
No, I do not have difficulty	Please enter a number between "0" and		
	"30" days. If no days, please enter "0"		
Yes, I have difficulty	days. Your best estimate would be fine.		
] I am unable to do this activity	days B27HDMEN		

14. During the <b>past 30 days,</b> for about how	19. In the <b>past month</b> , how often did memory		
many days did poor physical or mental	problems interfere with your daily activities?		
health keep you from doing your usual	Fyory day (7 days a week)		
activities, such as self-care, work, or	Every day (7 days a week)		
recreation?	Most days (5-6 days a week)		
Please enter a number between "0" and "30" days. If no days, please enter "0"	Some days (2-4 days a week)		
days. Your best estimate would be fine.	Rarely (once a week or less)		
	4		
days B27HDACT	Never B27DIFMPROB		
Now we are going to ask some questions			
about specific medical conditions.	Has a doctor <u>ever</u> told you that you had:		
15. Are you blind or do you have serious	20. Hypertension or high blood pressure		
difficulty seeing, even when wearing	Yes B27CCHBP		
glasses?	No		
Yes	21. Angina pectoris or coronary artery disease		
1	Yes		
<sub>2</sub> No	B27CC_CAD		
16. Are you deaf or do you have serious	No Landing		
difficulty hearing, even with a hearing	22. Congestive heart failure		
aid?	Yes		
Yes	B27CC_CHF		
No B27DIFHEAR	<sub>2</sub> No		
17. Because of a physical, mental, or	23. A myocardial infarction or heart attack		
emotional condition, do you have serious	Yes B27CCMI		
difficulty concentrating, remembering or	No		
making decisions?	24. Other heart conditions, such as problems		
Yes B27DIFREMEM	with heart valves or the rhythm of your		
1	heartbeat		
<sub>2</sub> No	□ Voc		
18. Because of a physical, mental, or			
emotional condition, do you have	No		
difficulty doing errands alone such as	25. A stroke		
visiting a doctor's office or shopping?	Yes		
Yes	1 BZ/CC3TROKE		
No B27DIFERRND	No		
2			

Has a doctor ever told you that you had:	32. Are you <u>currently</u> under treatment for:		
26. Emphysema, or asthma, or COPD (chronic	a. Co <u>lon</u> or rectal cancer		
obstructive pulmonary disease)	Yes B27CACOLON		
Yes B27CC_COPD	No BZ/CACOLON		
No BZ/CC_COTB	b. Lung cancer		
_	Ves		
27. Crohn's disease, ulcerative colitis, or	No B27CALUNG		
inflammatory bowel disease	2		
Yes B27CCGI	c. Breast cancer		
No BZ/CCGI	Yes B27CABRST		
2—	No —		
28. Osteoporosis, sometimes called thin or	d. Prostate cancer		
brittle bones	Yes B27CAPROS		
Yes B27CCOSTEO	No		
<sub>2</sub> No	e. Other cancer (other than skin cancer)		
No	Yes B27CAOTHER		
2	No BZ/CAOTHER		
29. Diabetes, high blood sugar, or sugar in the	2 140		
urine	33. In the past 7 days, how much did pain		
Yes B27CCDIABET	interfere with your day to day activities?		
No BZ/CCDIABET	Not at all		
2	1 BZ/PAINDACI		
30. Depression	A little bit		
Yes	<sub>3</sub> Somewhat		
B27CCDEP	Quite a bit		
<sub>2</sub> No	Very much		
21. Any concer (athor than altin concer)	5		
31. Any cancer (other than skin cancer)			
Yes → Go to Question 32			
NO → Go to Question 33 B27CCANYCA			

34. In the <b>past / days</b> , now often did pain	37. In general, compared to other people		
keep you from socializing with others?	your age, would you say that your health		
Never B27PAINSACT	is:		
Rarely	B27CMPHTH		
Sometimes	Very good		
Often	Good		
<sub>5</sub> Always	<sub>4</sub> Fair		
35. In the <b>past 7 days</b> , how would you rate	<sub>5</sub> Poor		
your pain <b>on average</b> ?			
0 No pain B27PAINRATE	38. Many people experience leakage of urine, also called urinary incontinence. In the		
11	past six months, have you experienced		
2	leaking of urine?  B27MUILKG		
3	Yes → Go to Question 39		
04 4	<sub>2</sub> No <b>→</b> Go to Question 42		
05 5	39. During the <b>past six months</b> , how much		
<sub>06</sub> 6	did leaking of urine make you change your		
7	daily activities or interfere with your		
07	sleep?		
<sub>08</sub> 8	A lot B27MUIDACT		
9	Somewhat		
10 Worst imaginable pain	Not at all		
36. Over the past 2 weeks, how often have			
you been bothered by any of the	40. Have you <u>ever</u> talked with a doctor, nurse,		
following problems?  a. Little interest or pleasure in doing	or other health care provider about		
things	leaking of urine?  B27MUITLK		
Not at all	Yes		
Several days	<sub>2</sub> No		
More than half the days			
Nearly every day			
b. Feeling down, depressed or hopeless			
Not at all B27DEPDOWN			
Several days			
More than half the days			
Nearly every day			

41. There are many ways to control or	45. Did you fall in the past 12 months?	
manage the leaking of urine, including	Yes B27FRMFALL	
bladder training exercises, medication and	No	
surgery. Have you <b>ever</b> talked with a doctor, nurse, or other health care	2	
provider about any of these approaches?	46. In the <b>past 12 months,</b> have you had a problem with balance or walking?	
Yes	Ves	
1 B27MUITRT	1 B2/FRMBAL	
<sub>2</sub> No	No	
42 In the most 12 months, did you talk with a	47. Has your doctor or other health provider	
42. In the <b>past 12 months</b> , did you talk with a doctor or other health provider about	47. Has your doctor or other health provider done anything to help prevent falls or treat problems with balance or walking?	
your level of exercise or physical activity?		
For example, a doctor or other health	Some things they might do include:	
provider may ask if you exercise regularly		
or take part in physical exercise.	<ul> <li>Suggest that you use a cane or walker.</li> </ul>	
Yes → Go to Question 43	<ul> <li>Suggest that you do an exercise or</li> </ul>	
No <b>→ Go to Question 43</b> B27PAOTLK	physical therapy program.	
2	<ul> <li>Suggest a vision or hearing test.</li> </ul>	
₃ I had no visits in the past 12 months  → Go to Question 44	Yes	
43. In the <b>past 12 months,</b> did a doctor or	1 B27FRMPREV	
other health provider advise you to start,	<sub>2</sub> No	
increase or maintain your level of exercise	I had no visits in the past 12 months	
or physical activity? For example, in order	48. During the <b>past month</b> , on average, how	
to improve your health, your doctor or	many hours of actual sleep did you get at	
other health provider may advise you to	night? (This may be different from the	
start taking the stairs, increase walking	number of hours you spent in bed.)	
from 10 to 20 minutes every day or to	Less than 5 hours	
maintain your current exercise program.	5–6 hours B27SLEEPHRS	
Yes B27PAOADV	2	
<sub>2</sub> No	<sub>3</sub> 7–8 hours	
44. A fall is when your body goes to the	<sub>4</sub> 9 or more hours	
ground without being pushed. In the <b>past</b>	49. During the past month, how would you	
12 months, did you talk with your doctor	rate your overall sleep quality?	
or other health provider about falling or	Very Good B27SLEEPQUA	
problems with balance or walking?	Fairly Good	
Yes B27FRMTLK	Fairly Bad	
<sub>2</sub> No	3	
I had no visits in the past 12 months	<sub>4</sub> Very Bad	
-		

	How much do you weigh in pounds (lbs.)?    Solution				
		<sub>01</sub> White	B27RCWHITE		
51. How tall are you with and inches? Please fil	l in both feet and	Black or African	B27RCAFRAM		
inches for example: 5 feet 04 inches (if 1/2		American <sub>03</sub> American Indian or	B27RCNATAM		
up).		Alaska Native			
feet	inches	<sub>04</sub> Asian Indian	B27RCINDIA		
B27HEIGHTFT	B27HEIGHTIN	Chinese	B27RCCHINA		
52. Are you male or fema	ile?	Filipino	B27RCFILIP		
Male Female	B27SRVSEX	Japanese	B27RCJAPAN		
53. Are you Hispanic, Lat	ino/a or Spanish	Korean	B27RCKOREA		
Origin? (One or more	•	<sub>09</sub> Vietnamese	B27RCVIET		
selected) No, not of Hispa	nic. Latino/a or	0ther Asian	B27RCOTHASN		
Spanish origin	B27HPNOHISP	Native Hawaiian	B27RCHAWAII		
Yes, Mexican, Mexican American,		Guamanian or	B27RCGUAM		
Chicano/a	B27HPMEX	Chamorro	BETTICOGTHIT		
yes, Puerto Rica	n <sub>B27HPPR</sub>	Samoan	B27RCSAMOA		
4 Yes, Cuban	B27HPCUBA	Other Pacific Islander	B27RCOTHPACC		
Yes, another Hispanic, Latino/a or		55. What language do you <u>mainly</u> speak at			
Spanish origin	B27HPOTHER	home?	B27SPEAKLNG		
		Spanish			
		Chinese			
		Russian			
		Some other language (	olease specify)		
		,	B27SPEAKOTH		
		56. What is your current marita	l status?		
		<sub>1</sub> Married	B27MARITAL		
		Divorced			
		<sub>3</sub> Separated			
		Widowed			
		<sub>5</sub> Never married			

57. \	What is the highest grade	or level of	61. Who completed this survey form?	
9	school that you have comp	oleted?		B27CMPWHC
1	8th grade or less	B27EDUC	Person to whom survey was	
-	Some high school, but did not		addressed -> Stop Here	
£	z graduate		Family member or relative of	person
3	High school graduate or GED		to whom the survey was addressed  Go to Question 62  Friend of person to whom the survey was addressed Go to Question 62  Professional caregiver of person to whom the survey was addressed  Go to Question 62	
4	Some college or 2 year degree			
5	5 4 year college graduate			
6	More than a 4 year college degree			
	Do you live alone or with others? (One or more categories may be selected)			
1	Alone	B27LVALONE	J Go to Question 02	
-	With spouse/significa	nt other	62. Did someone help you complete th	
2		B27LVSPOUSE	survey? If so, please fill in that person's	
	With children/other r	elatives	name.	
5	With non-relatives	B27LVCHILD	<b>DO NOT</b> enter the name of the person to whom this survey was addressed.	son to
4		B27LVNONREL		
5	With paid caregiver	B27LVCAREGV	Please <b>print</b> clearly.	
59. \	Where do you live?		First Name:	
1	House, apartment, co	ndominium or		
	mobile home → Go to Question 60		Last Name:	
2	Assisted living or boar	rd and care	B27	NMCOMP
	home <b>→</b> Go to Question	on 60		
3	Nursing home → Go t	o Question 61	YOU HAVE COMPLETED THE SURVEY.	
4	Other → Go to Question 61		THANK YOU	
60. I	s the house or apartment	you currently		
I	live in:			
Owned or being bought by you  Owned or being bought by someone  in your family other than you		tht by you		
		tht by someone		
		an you		
3 Rented for money				
۷	Not owned and one in which you live			
	without payment of rent			
	None of the above	B27HMOWN		