



# **MEDICARE HEALTH OUTCOMES SURVEY APPLIED RESEARCH CENTER**

## **ANALYTIC PUBLIC USE FILE DATA USER'S GUIDE**

***Cohort II Baseline and Follow-Up  
1999 - 2001***



# TABLE OF CONTENTS

<b>OVERVIEW OF THE PUBLIC USE FILE.....</b>	<b>A</b>
GENERAL CHARACTERISTICS OF THE DATA SET	
DESCRIPTION OF FIELDS IN THE DATA SET	
Identification and Baseline Demographics	
Baseline Survey Question Responses	
Baseline Survey Administration	
Follow-Up Survey Question Responses	
Follow-Up Survey Administration	
Additional Variables	
TECHNICAL ASSISTANCE	
 <b>MEDICARE HEALTH OUTCOMES SURVEY DESCRIPTION.....</b>	 <b>B</b>
BACKGROUND	
SAMPLING METHODOLOGY	
DATA COLLECTION	
SURVEY COMPONENTS	
SF-36 <sup>®</sup>	
Additional Physical, Mental, and General Activity Questions	
Special Notes	
 <b>LIMITATIONS OF THE DATA.....</b>	 <b>C</b>
COLLAPSING THE SCALES OF SELECTED VARIABLES	
CHANGES IN IDENTIFICATION OF SURVEYED BENEFICIARIES	
 <b>FIELD INDEX WITH FIELD DESCRIPTIONS.....</b>	 <b>D</b>
IDENTIFICATION AND BASELINE DEMOGRAPHICS	
BASELINE SURVEY QUESTION RESPONSES	
BASELINE SURVEY ADMINISTRATION	
FOLLOW-UP SURVEY QUESTION RESPONSES	
FOLLOW-UP SURVEY ADMINISTRATION	
ADDITIONAL VARIABLES	

## OVERVIEW OF THE PUBLIC USE FILE

This section provides an overview of the Medicare Health Outcomes Survey (HOS) *Cohort II Analytic* Public Use File (C2APUF.TXT), including the general characteristics of the data set and a description of the fields contained within it. This file contains merged *Cohort II Baseline* and *Cohort II Follow-Up* data. The *Medicare Health Outcomes Survey Description* section (B) in this Data User's Guide provides a general description of the HOS background and methodology including the sampling methodology, data collection, and survey components. For a more detailed discussion of these items, please refer to the *HEDIS® 1999, Volume 6: Medicare Health Outcomes Survey Manual*<sup>1</sup> (referred to as the *1999 HOS Manual*) and the *HEDIS® 2001, Volume 6: Specifications for the Medicare Health Outcomes Survey*<sup>2</sup> (referred to as the *2001 HOS Manual*).

### GENERAL CHARACTERISTICS OF THE DATA SET

The 1999 *Cohort II Baseline* Medicare HOS included a random sample of 301,184 beneficiaries, including both the aged and disabled, from 283 managed care market areas or reporting units. Of the 301,184 beneficiaries sampled, 66.2% (199,369) completed a sufficient amount of the baseline survey to have a calculatable SF-36® Physical Component Summary (PCS) score and/or Mental Component Summary (MCS) score.<sup>3</sup> Between 1999 and 2001, a number of M+COs discontinued offering managed care to beneficiaries, or consolidated with other health plans. As a result of these changes, 160 managed care market areas or reporting units and 137,746 beneficiaries remained in HOS. This group of 137,746 beneficiaries comprise the *Cohort II Public Use File (PUF) Analytic* sample.<sup>4</sup>

Of the 137,746 beneficiaries in the *Cohort II PUF Analytic* sample, 10,012 died between baseline and the two-year follow-up. Additionally, another 39,266 beneficiaries voluntarily disenrolled from their M+COs during the same two-year period. Of the 137,746 in the *Cohort II Analytic* sample, 88,468 remained eligible at the time of follow-up. Beneficiaries were eligible for follow-up if they were still alive, enrolled in their original M+CO, and had a calculatable SF-36® PCS and/or MCS score at baseline.

Of the 88,468 individuals sampled at the time of follow-up, 83.8% (74,169) completed the follow-up survey. For the purposes of this data set, a completed survey at follow-up was defined

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<sup>1</sup> National Committee for Quality Assurance. *HEDIS® 1999, Volume 6: Medicare Health Outcomes Survey Manual*. Washington DC: NCQA Publication, 1999.

<sup>2</sup> National Committee for Quality Assurance. *HEDIS® 2001, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2001.

<sup>3</sup> SF-36® is a registered trademark of the Medical Outcomes Trust.

<sup>4</sup> Please note, the *Cohort II PUF Analytic* sample differs from the *Cohort II Performance Measurement Analytic* sample which is used to derive plan-level performance measurement results. For additional information, please contact the Medicare HOS Information and Technical Support Line (1-888-880-0077) or E-mail address (hos.azpro@sdps.org).

as a survey with at least one question item completed and a survey disposition code equal to M10, M11, M31, T10, T11 or T31 (please refer to page D19). Of the 14,299 beneficiaries who did not complete a follow-up survey, 1,342 were determined to have died after the follow-up sample was selected but prior to completing the survey. Additionally, 776 beneficiaries were determined to be invalid members of the follow-up survey sample.<sup>5</sup> The remaining 12,181 beneficiaries who did not complete the follow-up survey are classified as nonrespondents.

The C2APUF.TXT data set is a fixed-width ASCII text file (30.5 megabytes in size). There are a total of 198 variables and 137,746 beneficiary records in the C2APUF.TXT data set. Each row in the C2APUF.TXT data set represents an HOS survey, also referred to as a beneficiary record.

This Public Use File has been modified from the original merged *Cohort II Baseline* and *Cohort II Follow-Up* data set in order to preserve the confidentiality at the beneficiary and plan levels. Many demographic and plan-level variables have been omitted from this file or have been collapsed into fewer categories [see *Limitations of the Data* section (C)]. Sensitive beneficiary identifying variables [such as a social security number, health insurance claim (HIC) number, beneficiary's name, etc.] have been removed and replaced with a unique 9-digit randomly assigned number.

The 198 variables in the C2APUF.TXT data set are organized into six different groups:

- ◆ identification and baseline demographics
- ◆ baseline survey question responses
- ◆ baseline survey administration
- ◆ follow-up survey question responses
- ◆ follow-up survey administration
- ◆ additional variables

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<sup>5</sup> Invalid members at *follow-up* meet one of the following criteria: not enrolled in the M+CO; have an incorrect address and phone number; or have a language barrier.

## DESCRIPTION OF FIELDS IN THE DATA SET

The following provides instructions for interpreting the specific variables contained within the data set.

### Identification and Baseline Demographics

◆ **Unique Identification Number**, Variable: 1

This is a unique 9-digit number that is randomly assigned for each beneficiary record. Positions 1 through 3 identify the analytic cohort of the public use file. Positions 4 through 9 contain a random number. For the baseline survey administration, any beneficiary surveyed in a subsequent baseline cohort was assigned the same blinded identification number to allow for comparisons of those beneficiaries who were measured across multiple baseline cohorts. However, due to confidentiality issues, the identification number assigned in the analytic cohort public use file does not correspond to the identification number assigned in either the baseline or follow-up cohort public use files. The data set is sorted by this unique identification number.

*Example:* A02000021

*Source:* variable created by Health Services Advisory Group during production of the C2APUF.TXT data set

◆ **Age Group**, Variable: 2

Age group of the beneficiary at the time of the baseline survey

*Source:* CMS Medicare Enrollment Database

◆ **Race**, Variable: 3

Self-reported race of the beneficiary

*Source:* Q49 from the baseline survey

◆ **Gender**, Variable: 4

Self-reported gender of the beneficiary

*Source:* Q47 from the baseline survey

◆ **Marital Status**, Variable: 5

Self-reported marital status of the beneficiary

*Source:* Q50 from the baseline survey

◆ **Education Level**, Variable: 6

Self-reported educational attainment of the beneficiary

*Source:* Q51 from the baseline survey

## Baseline Survey Question Responses

- ◆ **SF-36<sup>®</sup> Questions**, Variables: 7 through 42  
These variables represent the SF-36<sup>®</sup> survey questions, which can be found on pages 27 through 29 of the *1999 HOS Manual*. SF-36<sup>®</sup> survey questions include questions Q1 through Q11d in the HOS Questionnaire. Please refer to the *Medicare Health Outcomes Survey Description* section (B) in this Data User's Guide for a more detailed description of the SF-36<sup>®</sup>.
- ◆ **Additional Physical, Mental, and General Activity Questions**, Variables: 43 through 97  
These variables comprise the balance of the physical, mental, and general activity survey questions found on pages 30 through 37 of the *1999 HOS Manual*. These variables include most of the remaining questions Q12 through Q57 in the HOS Questionnaire. Selected questions contained in the survey are not available in this PUF data set due to confidentiality issues. Please refer to the *Medicare Health Outcomes Survey Description* section (B) in this Data User's Guide for a more detailed outline of these questions.

## Baseline Survey Administration

- ◆ **Baseline Survey Disposition**, Variable: 98  
Identifies completion status and mode by which the survey was completed  
*Source*: NCQA-certified HOS Vendor
- ◆ **Baseline Round Survey Returned**, Variable: 99  
Stage in which survey was returned to a vendor  
*Source*: NCQA-certified HOS Vendor
- ◆ **Percent of Baseline Survey Completed**, Variable: 100  
Percentage of the baseline survey completed by the respondent  
*Source*: variable created by Health Services Advisory Group during the data cleaning and processing of the *Cohort II Baseline* data file
- ◆ **Baseline Survey Language**, Variable: 101  
Language in which the baseline survey was completed. This variable was new in the *Cohort II Baseline* survey administration protocol.  
*Source*: NCQA-certified HOS Vendor

## Follow-Up Survey Question Responses

- ◆ **SF-36<sup>®</sup> Questions**, Variables: 102 through 137  
These variables represent the SF-36<sup>®</sup> survey questions, which can be found on pages 39 through 41 of the *2001 HOS Manual*. SF-36<sup>®</sup> survey questions include questions Q1 through

Q11d in the HOS Questionnaire. Please refer to the *Medicare Health Outcomes Survey Description* section (B) in this Data User's Guide for a more detailed description of the SF-36®.

- ◆ ***Additional Physical, Mental, and General Activity Questions***, Variables: 138 through 191  
These variables comprise the balance of the physical, mental, and general activity survey questions found on pages 42 through 50 of the *2001 HOS Manual*. These variables include most of the remaining questions Q12 through Q57 in the HOS Questionnaire. Selected questions contained in the survey are not available in this PUF data set due to confidentiality issues. Please refer to the *Medicare Health Outcomes Survey Description* section (B) in this Data User's Guide for a more detailed outline of these questions.

### Follow-Up Survey Administration

- ◆ ***Follow-Up Survey Disposition***, Variable: 192  
Identifies completion status and mode by which the survey was completed  
*Source*: NCQA-certified HOS Vendor
- ◆ ***Follow-Up Round Survey Returned***, Variable: 193  
Stage in which survey was returned to a vendor  
*Source*: NCQA-certified HOS Vendor
- ◆ ***Percent of Follow-Up Survey Completed***, Variable: 194  
Percentage of the follow-up survey completed by the respondent  
*Source*: variable created by Health Services Advisory Group during the data cleaning and processing of the *Cohort II Follow-Up* data file
- ◆ ***Follow-Up Survey Language***, Variable: 195  
Language in which the follow-up survey was completed. This variable was new in the *Cohort II Baseline* survey administration protocol.  
*Source*: NCQA-certified HOS Vendor

### Additional Variables

- ◆ ***Cohort Identifier***, Variable: 196  
Cohort in which the HOS surveys contained in this data set were submitted, where an "A" is indicative of analytic data from both the baseline and follow-up survey administrations.  
**SPECIAL NOTE:** This value for each record will equal "A02" (i.e., analytic data from *Cohort II Baseline* and *Cohort II Follow-Up*)  
*Source*: variable created by Health Services Advisory Group during production of the C2APUF.TXT data set



- ◆ ***CMS Plan Region***, Variable: 197  
CMS Regional office to which the plan belongs  
Source: CMS May 2002 Monthly Report of Managed Care Health Plans
- ◆ ***Follow-Up Sample Indicator***, Variable: 198  
This variable indicates if the beneficiary was included in the follow-up sample.  
Source: variable created by Health Services Advisory Group during the production of the C2APUF.TXT data set
- ◆ ***Analytic Sample Indicator***, Variable: 198  
This variable indicates the status of the beneficiary in the analytic file. Categories include the following: dead, disenrolled, invalid as determined at the time of follow-up, respondent to the follow-up survey, and nonrespondent to the follow-up survey.  
Source: variable created by Health Services Advisory Group during the production of the C2APUF.TXT data set

Further details of the contents of the data set are available in the *Field Index with Field Descriptions* section (D) of this Data User's Guide.

## TECHNICAL ASSISTANCE

The Medicare HOS Information and Technical Support Telephone Line (1-888-880-0077) as well as the HOS e-mail address (hos.azpro@sdps.org) are available to provide technical assistance.



# MEDICARE HEALTH OUTCOMES SURVEY DESCRIPTION

This section provides a description of the HOS background and methodology including the sampling methodology, data collection, and survey components.

## BACKGROUND

The Centers for Medicare & Medicaid Services (CMS) is committed to monitoring the quality of care provided by M+COs. To better evaluate care, CMS, in collaboration with the National Committee for Quality Assurance (NCQA), launched the first Medicare managed care health outcomes measure in the Health Plan Employer Data and Information Set (HEDIS<sup>®</sup>) in 1998.<sup>6</sup> This measure was initially titled Health of Seniors, and was renamed the Medicare Health Outcomes Survey (HOS) during the first year of implementation. This name change was intended to reflect the inclusion of Medicare recipients who are disabled and not seniors (age 65 and older) in the sampling methodology. The HOS design is based on a randomly selected sample of individuals from each participating M+CO and measures physical and mental health over a two-year period.

The HOS measure is an assessment of a health plan's ability to maintain or improve the physical and mental health functioning of beneficiaries enrolled in Medicare M+COs over a two-year period of time. The functional status of the elderly is known to decline over such a period.<sup>7</sup> The HOS results were computed using a set of case-mix/risk-adjustment factors, adjusting for expected differences. The differences between the baseline and the two-year follow-up physical and mental health scores are presented in terms of the percentages of beneficiaries who were better, the same, or worse than expected. The resulting aggregation of these scores across beneficiaries within a plan yields the HOS plan level Performance Measurement results. These results are specific to each individual plan. HOS results are an important part of CMS' quality improvement activities, since current law authorizes Quality Improvement Organizations (QIOs) to review the quality of care provided to people with Medicare. The goals of HOS are to help beneficiaries make informed health care choices and to promote quality improvement based on competition.

The HOS measure was developed under the guidance of a Technical Expert Panel (TEP) comprised of individuals with specific expertise in the health care industry and outcomes measurement. The TEP continues to oversee and develop the science of the HOS measure. The CMS has contracted with NCQA to support the standardized administration of the HOS survey including selecting, training, and certifying independent survey vendors that the plans contract with to administer the survey.

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<sup>6</sup> HEDIS<sup>®</sup> is a registered trademark of the National Committee for Quality Assurance.

<sup>7</sup> National Committee for Quality Assurance. *HEDIS<sup>®</sup> 2001, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2001.

## SAMPLING METHODOLOGY

Beginning in 1998, and continuing annually, a HOS *Baseline Cohort* has been created from a random sample of 1,000 Medicare members from each applicable Medicare contract market area. The CMS selected the random samples for each baseline cohort. The year 2000 marked the first year in which a HOS *Follow-Up Cohort* of data was collected on beneficiaries sampled two-years previously. The *Cohort II Follow-Up* sample was limited to those beneficiaries, including both the aged and disabled, who had a calculatable PCS and/or MCS score at baseline, were still alive, and were enrolled in their original M+CO. For additional information on the follow-up sample inclusion criteria, please refer to the *2001 HOS Manual*.

In 1998, CMS required Medicare Managed Care Organizations (MCOs) with contracts in effect on or before January 1, 1997 to participate in HOS. Some Medicare MCOs were required to report by market areas defined as geographic areas containing more than 5,000 members that are generally served by distinctly separate networks of service providers (referred to as “contract markets”). In 1999, CMS required all M+COs and section 1876 risk and cost health plans with contracts in place on or before January 1, 1998 to participate in HOS. In addition, selected PACE (Programs of All-inclusive Care for the Elderly) plans, EverCare plans, and demonstration risk plans participated in the second year administration. A Spanish language version of the survey was also incorporated into the survey protocol. In 2000, CMS required all M+COs, continuing cost contractors, PACE plans, Social HMOs, Medicare Choices Demonstration plans, and Department of Defense (DOD) Subvention Demonstration plans with contracts in place on or before January 1, 1999 to participate in the *Cohort III Baseline* survey. All plans with contracts in place on or before January 1, 1997 that participated in the *Cohort I Baseline* survey in 1998 were required to participate in the *Cohort I Follow-Up* survey. In 2001, CMS required all M+COs, continuing cost contractors, PACE plans, Social HMOs, and Medicare Choices Demonstration plans with contracts in place on or before January 1, 2000 to participate in the *Cohort IV Baseline* survey. All plans with contracts in place on or before January 1, 1998 that participated in the *Cohort II Baseline* survey in 1999 were required to participate in the *Cohort II Follow-Up* survey.

## DATA COLLECTION

M+COs must contract with an NCQA-certified HOS vendor to administer the survey. Vendors follow the protocol contained in the *2001 HOS Manual*. The standard HEDIS<sup>®</sup> protocol for administering the HOS employs a combination of mail and telephone survey administration. The mail component of the survey uses a standardized questionnaire, survey letters, and prenotification and reminder/thank you postcards. Vendors review each returned mail questionnaire for legibility and completeness. If a beneficiary's responses are ambiguous, then a coding specialist employs standardized decision rules. Questionnaires can be entered into a computer manually or optically scanned into a computer readable file. For manually entered data, two separate data entry specialists must key enter responses from each questionnaire.

In those instances when beneficiaries fail to respond after the second mail survey, vendors

attempt telephone follow-up (with a maximum of six attempts). Vendors also perform telephone follow-up for members who return an incomplete mail survey in order to obtain responses to missing questions. Vendors use a standardized version of a Computer Assisted Telephone Interviewing (CATI) script to collect telephone interview data for the survey. To ensure the standardization of the data collection process, vendors are prohibited from augmenting or adjusting the HOS protocol or instrument in any manner.

Periodically during the survey administration and again when data collection is completed, vendors run an edit program against each record in the data file to identify invalid data elements. At the conclusion of the data collection period, vendors perform preliminary data cleaning and editing and follow-up with survey respondents, as necessary. For a more detailed discussion on data sampling, collection, and submission, please refer to the *2001 HOS Manual*.

## SURVEY COMPONENTS

The HOS instrument consists of three components: the SF-36<sup>®</sup> Health Survey, questions for case-mix/risk-adjustment purposes, and questions added by CMS.

### SF-36<sup>®</sup>

The SF-36<sup>®</sup> Health Survey is a multi-purpose, short-form health survey with 36 questions. It yields an 8-scale profile of scores as well as physical and mental health summary scores. It is a generic measure, as opposed to one that targets a specific age, disease, or treatment group. As documented in more than 2,400 published articles involving over 150 diseases and conditions, the SF-36<sup>®</sup> has proven useful in both general and specific populations, comparing the relative burden of diseases, differentiating the health benefits produced by a wide range of different treatments, and screening individual patients. Detailed information about the history, development, and scoring of the SF-36<sup>®</sup> is available in two user's manuals.<sup>8, 9</sup>

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<sup>8</sup> Ware JE, Snow KK, Kosinski M, Gandek B. *SF-36<sup>®</sup> Health Survey Manual and Interpretation Guide*. Boston, MA: The Health Institute, 1993.

<sup>9</sup> Ware JE, Kosinski M. *SF-36<sup>®</sup> Physical and Mental Health Summary Scales: A Manual for Users of Version 1, Second Edition*. Lincoln, RI: QualityMetric, Incorporated, 2001.

SF-36<sup>®</sup> survey questions are comprised of the following:

- General health question (Q1)
- Health transition question (Q2)
- Vigorous activities question (Q3a)
- Moderate activities question (Q3b)
- Lifting or carrying groceries question (Q3c)
- Climbing several flights of stairs question (Q3d)
- Climbing one flight of stairs question (Q3e)
- Bending, kneeling, or stooping question (Q3f)
- Walking more than a mile question (Q3g)
- Walking several blocks question (Q3h)
- Walking one block question (Q3i)
- Bathing or dressing question (Q3j)
- Physical health limiting time spent on activities question (Q4a)
- Physical health limiting amount accomplished question (Q4b)
- Physical health limiting the kind of activities question (Q4c)
- Physical health causing difficulty performing activities question (Q4d)
- Emotional problems limiting time spent on activities question (Q5a)
- Emotional problems limiting amount accomplished question (Q5b)
- Emotional problems limiting carefulness (Q5c)
- Extent health interfering with social activities question (Q6)
- Bodily pain question (Q7)
- Pain interfering with work question (Q8)
- Full of pep question (Q9a)
- Nervous question (Q9b)
- Down in the dumps question (Q9c)
- Calm and peaceful question (Q9d)
- Lots of energy question (Q9e)
- Downhearted and blue question (Q9f)
- Feeling worn out question (Q9g)
- Happy question (Q9h)
- Feeling tired question (Q9i)
- Amount of time health interfering with social activities question (Q10)
- Sick easier question (Q11a)
- As healthy question (Q11b)
- Future health question (Q11c)
- Excellent health question (Q11d)

### **Additional Physical, Mental, and General Activity Questions**

Along with the SF-36<sup>®</sup>, the HOS includes additional items that provide essential information for adjusting observed outcomes to account for risk that may be outside of a plan's control. Such variables include:

- ◆ *Impairment of Activities of Daily Living:*
  - bathing (Q12a)
  - dressing (Q12b)
  - eating (Q12c)
  - getting in or out of chairs (Q12d)
  - walking (Q12e)
  - using the toilet (Q12f)
  
- ◆ *Chest pain/pressure during exercise (Q13a)*
- ◆ *Chest pain/pressure when resting (Q13b)*
- ◆ *Shortness of breath when lying flat (Q14a)*
- ◆ *Shortness of breath when sitting/resting (Q14b)*
- ◆ *Shortness of breath when walking less than one block (Q14c)*
- ◆ *Shortness of breath when climbing one flight of stairs (Q14d)*
- ◆ *Numbness or loss of feeling in feet (Q15a)*
- ◆ *Ankles or legs that swell during the day (Q15b)*
- ◆ *Tingling or burning sensation in feet, especially at night (Q15c)*
- ◆ *Decreased ability to feel hot or cold with feet (Q15d)*
- ◆ *Sores or wounds on feet that do not heal (Q15e)*
- ◆ *Paralysis or weakness (Q16a)*
- ◆ *Lost ability to talk (Q16b)*
- ◆ *Ability to read newspaper print (Q17)*
- ◆ *Ability to hear (Q18)*
- ◆ *Acid indigestion or heartburn (Q19)*
- ◆ *Difficulty controlling urination (Q20)*
  
- ◆ *Chronic Medical Conditions:*
  - hypertension or high blood pressure (Q21)
  - angina pectoris or coronary artery disease (Q22)
  - congestive heart failure (Q23)
  - myocardial infarction or heart attack (Q24)
  - other heart conditions (Q25)
  - stroke (Q26)
  - emphysema, asthma, or Chronic Obstructive Pulmonary Disease (Q27)
  - Crohn's disease, ulcerative colitis, or inflammatory bowel disease (Q28)
  - arthritis of the hip or knee (Q29)
  - arthritis of the hand or wrist (Q30)
  - sciatica (Q31)
  - diabetes, high blood sugar, or sugar in the urine (Q32)
  - any cancer (other than skin cancer) (Q33)
  
- ◆ *Measure of arthritis pain (Q34)*

- ◆ *Cancer Treatment (Q35):*
  - colon or rectal cancer
  - lung cancer
  - breast cancer
  - prostate cancer
- ◆ *Interference of low back pain (Q36)*
- ◆ *Legs experiencing pain, numbness, or tingling (Q37)*
- ◆ *Depression screening questions (Q38 through Q40)*
- ◆ *Health compared to one year ago (Q41)*
- ◆ *Smoking questions (Q42 through Q45)*
- ◆ *Demographics*
  - Year of birth (Q46– not available in C2APUF.TXT)
  - Gender (Q47)
  - Hispanic or Spanish family background (Q48– not available in C2APUF.TXT)
  - Race (Q49)
  - Marital status (Q50)
  - Education (Q51)
  - Residential status questions (Q52 through Q54; 52 is not available in C2APUF.TXT)
  - Person completing the survey (Q55)
  - Name of person completing the survey (Q56 – not available in C2APUF.TXT)
  - Income (Q57– not available in C2APUF.TXT)

### **Special Notes:**

- ◆ Selected questions that appear in the *1999* and *2001 HOS Manuals* are not available in the C2APUF.TXT data set. These questions were excluded due to confidentiality issues [see *Limitations of the Data* section (C)].
- ◆ The HOS Questionnaire contains multiple skip patterns. Caution should be exercised when examining selected questions that involve skip pattern responses. Please refer to the *Field Index with Field Descriptions* section (D) for additional information.
- ◆ When the sampled beneficiary was unable to complete the survey, the HOS protocol allows for the utilization of a proxy respondent. Surveys completed either by the respondent themselves or by proxy respondents are included in this data set.

- ◆ Minor modifications to the HOS questionnaire occurred between the administration of the 1998 *Cohort I Baseline* and the 1999 *Cohort II Baseline* surveys. One question was removed from the instrument [Visiting a doctor question (Q45 in the *Cohort I Baseline* survey)]. The reference period of the smoking cessation questions was reduced from 12 to 6 months [Quit smoking question (Q44) and Smoking advice question (Q45 in the *Cohort II Baseline* survey)]. Please refer to the *Field Index with Field Descriptions* section (D) for additional information. Caution should be exercised when examining the data across multiple cohorts.



## LIMITATIONS OF THE DATA

This section illustrates the limitations of the data set, including issues relative to the collapsing of selected variable categories and the identification of Medicare beneficiaries.

### COLLAPSING THE CATEGORIES OF SELECTED VARIABLES

To ensure confidentiality of beneficiaries and plans, many demographic and plan-related variables were omitted from this file or collapsed into fewer categories.

Collapsed categories include:

Variable	Scale in C2APUF.TXT <sup>10</sup>	Scale in <i>HOS Questionnaire</i> <sup>11</sup>
Baseline Race of Beneficiary	1 = White 2 = Black or African American 3 = Other	1 = American Indian or Alaskan Native 2 = Asian or Pacific Islander 3 = Black or African American 4 = White 5 = Another race or multiracial
Baseline Marital Status of Beneficiary	1 = Married 2 = Non-Married	1 = Married 2 = Divorced 3 = Separated 4 = Widowed 5 = Never married
Baseline Education Level of Beneficiary	1 = Less than a high school education or GED 2 = High school education or GED 3 = Greater than a high school education or GED	1 = 8 <sup>th</sup> 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

**NOTE:** All other demographic and plan-related variables appearing in the *1999* or *2001 HOS Manual* have been excluded for confidentiality reasons.

### CHANGES IN IDENTIFICATION OF SURVEYED BENEFICIARIES

HOS uniquely identifies beneficiaries by using the beneficiary's health insurance claim (HIC) number. However, a beneficiary's HIC number can change through special circumstances. Changes in a beneficiary's HIC number between baseline and follow-up sampling are accounted for in the sampling protocol. However, changes in a beneficiary's HIC number between baseline cohorts are not accommodated in the sampling protocol.

<sup>10</sup> Scale as it is represented in C2APUF.TXT.

<sup>11</sup> Scale as it is represented in the *1999 HOS Manual*.

## FIELD INDEX WITH FIELD DESCRIPTIONS

This section provides detailed information regarding the structure of the C2APUF.TXT data set, as well as the variables included in it. The tables below include the order, position, valid values and any additional information on each variable in the data set. Variables are presented in the same order as they exist in the data set.

The C2APUF.TXT data set:

- ◆ is a fixed-width ASCII text file of 30.5 megabytes
- ◆ consists of merged *Cohort II Baseline* HOS surveys completed in 1999 and *Cohort II Follow-Up* HOS surveys completed in 2001
- ◆ contains a total of 198 variables and 137,746 beneficiary records
- ◆ contains a blank space for all missing values
- ◆ contains numeric values with the exception of variable numbers 1, 97, 98, 191, 192, and 195.
- ◆ is sorted by the unique identification number

## IDENTIFICATION AND BASELINE DEMOGRAPHICS

Var #	Field Description	Field Position	Additional Information and Valid Values
1	Unique Identification Number	1 – 9	A unique 9-digit randomly assigned number for each beneficiary ( <b>SPECIAL NOTE</b> : this variable contains a character string): Example: A02000021
2	Baseline Age Group of Beneficiary	10	Age obtained from the CMS Medicare Enrollment Database at the time of baseline sampling. Age is collapsed into three age groups: 1 = Less than 65 2 = 65 to 74 3 = Greater than 74
3	Baseline Race of Beneficiary	11	Beneficiary's response to Q49 from the <i>Cohort II Baseline</i> survey ( <b>SPECIAL NOTE</b> : category collapsed to ensure confidentiality of beneficiaries): <i>How would you describe your race?</i> 1 = White 2 = Black or African American 3 = Other
4	Baseline Gender of Beneficiary	12	Beneficiary's response to Q47 from the <i>Cohort II Baseline</i> survey: <i>Are you male or female?</i> 1 = Male 2 = Female
5	Baseline Marital Status of Beneficiary	13	Beneficiary's response to Q50 from the <i>Cohort II Baseline</i> survey ( <b>SPECIAL NOTE</b> : category collapsed to ensure confidentiality of beneficiaries): <i>What is your current marital status?</i> 1 = Married 2 = Non-Married
6	Baseline Education Level of Beneficiary	14	Beneficiary's response to Q51 from the <i>Cohort II Baseline</i> survey ( <b>SPECIAL NOTE</b> : category collapsed to ensure confidentiality of beneficiaries): <i>What is the highest grade or level of school that you have completed?</i> 1 = Less than a high school education or GED 2 = High school education or GED 3 = Greater than a high school education or GED

## BASELINE SURVEY QUESTION RESPONSES

Var #	Field Description	Field Position	Additional Information and Valid Values
7	General Health Question (Q1)	15	Beneficiary's response to Q1 from the <i>Cohort II Baseline</i> survey: <i>In general, would you say your health is:</i> 1 = Excellent 2 = Very Good 3 = Good 4 = Fair 5 = Poor
8	Health Transition Question (Q2)	16	Beneficiary's response to Q2 from the <i>Cohort II Baseline</i> survey: <i>Compared to one year ago, how would you rate your health in general now?</i> 1 = Much better now than one year ago 2 = Somewhat better now than one year ago 3 = About the same as one year ago 4 = Somewhat worse now than one year ago 5 = Much worse now than one year ago
9	Vigorous Activities Question (Q3a)	17	Beneficiary's response to Q3a from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Vigorous activities</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
10	Moderate Activities Question (Q3b)	18	Beneficiary's response to Q3b from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Moderate activities</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
11	Lifting or Carrying Groceries Question (Q3c)	19	Beneficiary's response to Q3c from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Lifting or Carrying Groceries</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
12	Climbing Several Flights of Stairs Question (Q3d)	20	Beneficiary's response to Q3d from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Climbing several flights of stairs</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
13	Climbing One Flight of Stairs Question (Q3e)	21	Beneficiary's response to Q3e from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Climbing one flight of stairs</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
14	Bending, Kneeling, or Stooping Question (Q3f)	22	Beneficiary's response to Q3f from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Bending, kneeling, or stooping</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
15	Walking More than a Mile Question (Q3g)	23	Beneficiary's response to Q3g from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Walking more than a mile</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
16	Walking Several Blocks Question (Q3h)	24	Beneficiary's response to Q3h from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Walking several blocks</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
17	Walking One Block Question (Q3i)	25	Beneficiary's response to Q3i from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Walking one block</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
18	Bathing or Dressing Question (Q3j)	26	Beneficiary's response to Q3j from the <i>Cohort II Baseline</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Bathing or dressing yourself</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
19	Physical Health Limiting Time Spent on Activities Question (Q4a)	27	Beneficiary's response to Q4a from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Cut down on the amount of time you spent on work or other activities</u> 1 = Yes 2 = No
20	Physical Health Limiting Amount Accomplished Question (Q4b)	28	Beneficiary's response to Q4b from the <i>Cohort II Baseline</i> survey: <i>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?</i> <u>Accomplished less than you would like</u> 1 = Yes 2 = No
21	Physical Health Limiting the Kind of Activities Question (Q4c)	29	Beneficiary's response to Q4c from the <i>Cohort II Baseline</i> survey: <i>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?</i> <u>Were limited in the kind of work or other activities</u> 1 = Yes 2 = No
22	Physical Health Causing Difficulty Performing Activities Question (Q4d)	30	Beneficiary's response to Q4d from the <i>Cohort II Baseline</i> survey: <i>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?</i> <u>Had difficulty performing the work or other activities</u> 1 = Yes 2 = No
23	Emotional Problems Limiting Time Spent on Activities Question (Q5a)	31	Beneficiary's response to Q5a from the <i>Cohort II Baseline</i> survey: <i>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 any emotional problems?</i> <u>Cut down on the amount of time you spent on work or other activities</u> 1 = Yes 2 = No

## **BASELINE SURVEY QUESTION RESPONSES (CONT.)**

<b>Var #</b>	<b>Field Description</b>	<b>Field Position</b>	<b>Additional Information and Valid Values</b>
24	Emotional Problems Limiting Amount Accomplished Question (Q5b)	32	Beneficiary's response to Q5b from the <i>Cohort II Baseline</i> survey: <i>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 any emotional problems?</i> <u>Accomplished less than you would like</u> 1 = Yes 2 = No
25	Emotional Problems Limiting Carefulness Question (Q5c)	33	Beneficiary's response to Q5c from the <i>Cohort II Baseline</i> survey: <i>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 any emotional problems?</i> <u>Didn't do work or other activities as carefully as usual</u> 1 = Yes 2 = No
26	Extent Health Interfering with Social Activities Question (Q6)	34	Beneficiary's response to Q6 from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities?</i> 1 = Not at all 2 = Slightly 3 = Moderately 4 = Quite a bit 5 = Extremely
27	Bodily Pain Question (Q7)	35	Beneficiary's response to Q7 from the <i>Cohort II Baseline</i> survey: <i>How much bodily pain have you had during the past 4 weeks?</i> 1 = None 2 = Very mild 3 = Mild 4 = Moderate 5 = Severe 6 = Very severe
28	Pain Interfering with Work Question (Q8)	36	Beneficiary's response to Q8 from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much did pain interfere with your normal work?</i> 1 = Not at all 2 = A little bit 3 = Moderately 4 = Quite a bit 5 = Extremely



## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
29	Full of Pep Question (Q9a)	37	Beneficiary's response to Q9a from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel full of pep?</u> 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
30	Nervous Question (Q9b)	38	Beneficiary's response to Q9b from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you been a very nervous person?</u> 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
31	Down in the Dumps Question (Q9c)	39	Beneficiary's response to Q9c from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt so down in the dumps that nothing could cheer you up?</u> 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
32	Calm and Peaceful Question (Q9d)	40	Beneficiary's response to Q9d from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt calm and peaceful?</u> 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
33	Lots of Energy Question (Q9e)	41	Beneficiary's response to Q9e from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you have a lot of energy?</u> 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

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
34	Downhearted and Blue Question (Q9f)	42	Beneficiary's response to Q9f from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt downhearted and blue?</u> 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
35	Feeling Worn Out Question (Q9g)	43	Beneficiary's response to Q9g from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel worn out?</u> 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
36	Happy Question (Q9h)	44	Beneficiary's response to Q9h from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you been a happy person?</u> 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
37	Feeling Tired Question (Q9i)	45	Beneficiary's response to Q9i from the <i>Cohort II Baseline</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel tired?</u> 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
38	Amount of Time Health Interfering with Social Activities Question (Q10)	46	Beneficiary's response to Q10 from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities?</i> 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

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
39	Sick Easier Question (Q11a)	47	Beneficiary's response to Q11a from the <i>Cohort II Baseline</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I seem to get sick a little easier than other people</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
40	As Healthy Question (Q11b)	48	Beneficiary's response to Q11b from the <i>Cohort II Baseline</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I am as healthy as anybody I know</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
41	Future Health Question (Q11c)	49	Beneficiary's response to Q11c from the <i>Cohort II Baseline</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I expect my health to get worse</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
42	Excellent Health Question (Q11d)	50	Beneficiary's response to Q11d from the <i>Cohort II Baseline</i> survey: <i>How true or false is each of the following statements for you?</i> <u>My health is excellent</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
43	Bathing Question (Q12a)	51	Beneficiary's response to Q12a from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Bathing</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
44	Dressing Question (Q12b)	52	Beneficiary's response to Q12b from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Dressing</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
45	Eating Question (Q12c)	53	Beneficiary's response to Q12c from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Eating</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
46	Getting In or Out of Chairs Question (Q12d)	54	Beneficiary's response to Q12d from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Getting in or out of chairs</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
47	Walking Question (Q12e)	55	Beneficiary's response to Q12e from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Walking</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
48	Using the Toilet Question (Q12f)	56	Beneficiary's response to Q12f from the <i>Cohort II Baseline</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Using the toilet</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
49	Chest Pain or Pressure on Exertion Question (Q13a)	57	Beneficiary's response to Q13a from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you had any of the following problems?</i> <u>Chest pain or pressure when you exercise</u> 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
50	Chest Pain or Pressure at Rest Question (Q13b)	58	Beneficiary's response to Q13b from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you had any of the following problems?</i> <u>Chest pain or pressure when resting</u> 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
51	Orthopnea Question (Q14a)	59	Beneficiary's response to Q14a from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When lying down flat</u> 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
52	Dyspnea when Sitting or Resting Question (Q14b)	60	Beneficiary's response to Q14b from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When sitting or resting</u> 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

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
53	Dyspnea when Walking Less than One Block Question (Q14c)	61	Beneficiary's response to Q14c from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When walking less than one block</u> 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
54	Dyspnea when Climbing One Flight of Stairs Question (Q14d)	62	Beneficiary's response to Q14d from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When climbing one flight of stairs</u> 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
55	Numbness in Feet Question (Q15a)	63	Beneficiary's response to Q15a from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Numbness or loss of feeling in your feet</u> 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
56	Ankle or Leg Edema Question (Q15b)	64	Beneficiary's response to Q15b from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Ankles or legs that swell as the day goes on</u> 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

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
57	Foot Tingling or Burning Question (Q15c)	65	Beneficiary's response to Q15c from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Tingling or burning sensation in your feet especially at night</u> 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
58	Decreased Temperature Sensation in Feet Question (Q15d)	66	Beneficiary's response to Q15d from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Decreased ability to feel hot or cold with your feet</u> 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
59	Sores or Wounds on Feet Question (Q15e)	67	Beneficiary's response to Q15e from the <i>Cohort II Baseline</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Sores or wounds on your feet that did not heal</u> 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
60	Hemiparalysis or Weakness Question (Q16a)	68	Beneficiary's response to Q16a from the <i>Cohort II Baseline</i> survey: <i>Have you ever had paralysis or weakness on one side of the body?</i> 1 = Yes, I have it 2 = Yes, but it went away 3 = No
61	Lost Ability to Talk Question (Q16b)	69	Beneficiary's response to Q16b from the <i>Cohort II Baseline</i> survey: <i>Have you ever lost the ability to talk?</i> 1 = Yes, I have lost it 2 = Yes, but it returned 3 = No



## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
62	Vision Question (Q17)	70	Beneficiary's response to Q17 from the <i>Cohort II Baseline</i> survey: <i>Can you see well enough to read newspaper print (with your glasses or contacts if that's how you see best)?</i> 1 = Yes 2 = No
63	Hearing Question (Q18)	71	Beneficiary's response to Q18 from the <i>Cohort II Baseline</i> survey: <i>Can you hear most of the things people say (with a hearing aid if that's how you hear best)?</i> 1 = Yes 2 = No
64	Acid Indigestion Question (Q19)	72	Beneficiary's response to Q19 from the <i>Cohort II Baseline</i> survey: <i>Do you now have acid indigestion or heartburn?</i> 1 = Yes 2 = No
65	Difficulty Controlling Urination Question (Q20)	73	Beneficiary's response to Q20 from the <i>Cohort II Baseline</i> survey: <i>Do you have difficulty controlling urination?</i> 1 = Yes 2 = No
66	Hypertension Question (Q21)	74	Beneficiary's response to Q21 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Hypertension or high blood pressure</u> 1 = Yes 2 = No
67	Angina Pectoris or Coronary Artery Disease Question (Q22)	75	Beneficiary's response to Q22 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Angina pectoris or coronary artery disease</u> 1 = Yes 2 = No
68	Congestive Heart Question (Q23)	76	Beneficiary's response to Q23 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Congestive heart failure</u> 1 = Yes 2 = No
69	Myocardial Infarction Question (Q24)	77	Beneficiary's response to Q24 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>A myocardial infarction or heart attack</u> 1 = Yes 2 = No

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
70	Other Heart Conditions Question (Q25)	78	Beneficiary's response to Q25 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Other heart conditions</u> 1 = Yes 2 = No
71	Stroke Question (Q26)	79	Beneficiary's response to Q26 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>A stroke</u> 1 = Yes 2 = No
72	COPD Question (Q27)	80	Beneficiary's response to Q27 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Emphysema, or asthma, or COPD</u> 1 = Yes 2 = No
73	Inflammatory Bowel Disease Question (Q28)	81	Beneficiary's response to Q28 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Crohn's disease, ulcerative colitis, or inflammatory bowel disease</u> 1 = Yes 2 = No
74	Arthritis of Hip or Knee Question (Q29)	82	Beneficiary's response to Q29 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Arthritis of the hip or knee</u> 1 = Yes 2 = No
75	Arthritis of Hand or Wrist Question (Q30)	83	Beneficiary's response to Q30 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Arthritis of the hand or wrist</u> 1 = Yes 2 = No
76	Sciatica Question (Q31)	84	Beneficiary's response to Q31 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Sciatica</u> 1 = Yes 2 = No
77	Diabetes Question (Q32)	85	Beneficiary's response to Q32 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Diabetes, high blood sugar, or sugar in the urine</u> 1 = Yes 2 = No

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
78	Any Cancer Question (Q33)	86	Beneficiary's response to Q33 from the <i>Cohort II Baseline</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Any cancer (other than skin cancer)</u> 1 = Yes 2 = No
79	Arthritis Pain Question (Q34)	87	Beneficiary's response to Q34 from the <i>Cohort II Baseline</i> survey (if answered "yes" to Q29 or Q30): <i>During the past 4 weeks, how would you describe the arthritis pain you usually had?</i> 1 = None 2 = Very mild 3 = Mild 4 = Moderate 5 = Severe
80	Colorectal Cancer Treatment Question (Q35a)	88	Beneficiary's response to Q35a from the <i>Cohort II Baseline</i> survey (if answered "yes" to Q33): <i>Are you currently under treatment for:</i> <u>Colon or rectal cancer</u> 1 = Yes 2 = No
81	Lung Cancer Treatment Question (Q35b)	89	Beneficiary's response to Q35b from the <i>Cohort II Baseline</i> survey (if answered "yes" to Q33): <i>Are you currently under treatment for:</i> <u>Lung cancer</u> 1 = Yes 2 = No
82	Breast Cancer Treatment Question (Q35c)	90	Beneficiary's response to Q35c from the <i>Cohort II Baseline</i> survey (if answered "yes" to Q33): <i>Are you currently under treatment for:</i> <u>Breast cancer</u> 1 = Yes 2 = No
83	Prostate Cancer Treatment Question (Q35d)	91	Beneficiary's response to Q35d from the <i>Cohort II Baseline</i> survey (if answered "yes" to Q33): <i>Are you currently under treatment for:</i> <u>Prostate cancer</u> 1 = Yes 2 = No
84	Low Back Pain Question (Q36)	92	Beneficiary's response to Q36 from the <i>Cohort II Baseline</i> survey: <i>In the past 4 weeks, how often has low back pain interfered with your usual daily activities?</i> 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

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
85	Pain, Numbness, or Tingling Down Leg Question (Q37)	93	Beneficiary's response to Q37 from the <i>Cohort II Baseline</i> survey: <i>In the past 4 weeks, how often did you have pain, numbness or tingling that travels down your leg and below your knee?</i> 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
86	Two Weeks of Depression Question (Q38)	94	Beneficiary's response to Q38 from the <i>Cohort II Baseline</i> survey: <i>In the past year, have you had 2 weeks or more during which you felt sad, blue or depressed; or when you lost interest or pleasure in things that you usually cared about or enjoyed?</i> 1 = Yes 2 = No
87	Depression Much of the Time Question (Q39)	95	Beneficiary's response to Q39 from the <i>Cohort II Baseline</i> survey: <i>In the past year, have you felt depressed or sad much of the time?</i> 1 = Yes 2 = No
88	Depression Most of the Time Question (Q40)	96	Beneficiary's response to Q40 from the <i>Cohort II Baseline</i> survey: <i>Have you ever had 2 years or more in your life when you felt depressed or sad most days, even if you felt okay sometimes?</i> 1 = Yes 2 = No
89	Comparative Health Question (Q41)	97	Beneficiary's response to Q41 from the <i>Cohort II Baseline</i> survey: <i>In general, compared to other people your age, would you say that your health is:</i> 1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor
90	Smoked 100 Cigarettes Question (Q42)	98	Beneficiary's response to Q42 from the <i>Cohort II Baseline</i> survey: <i>Have you ever smoked at least 100 cigarettes in your entire life?</i> 1 = Yes (Go to Q43) 2 = No (Go to Q46) 3 = Don't know (Go to Q46)

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
91	Current Smoker Question (Q43)	99	Beneficiary's response to Q43 from the <i>Cohort II Baseline</i> survey: <i>Do you now smoke every day, some days, or not at all?</i> 1 = Every day ( <i>Go to Q45</i> ) 2 = Some days ( <i>Go to Q45</i> ) 3 = Not at all ( <i>Go to Q44</i> ) 4 = Don't know ( <i>Go to Q46</i> )
92	Quit Smoking Question (Q44)	100	Beneficiary's response to Q44 from the <i>Cohort II Baseline</i> survey: <i>How long has it been since you quit smoking cigarettes?</i> 1 = 6 months or less ( <i>Go to Q45</i> ) 2 = more than 6 months ( <i>Go to Q46</i> ) 3 = Don't know ( <i>Go to Q46</i> )
	Visiting a Doctor Question (previously Q45 in the <i>Cohort I Baseline</i> survey)  <b>* This question was not included in the <i>Cohort II Baseline</i> survey.</b>		Beneficiary's response to Q45 from the <i>Cohort I Baseline</i> survey: <i>During the past 12 months, how many times have you visited a doctor or health professional in your plan (not counting overnight hospital visits)?</i> 1 = None ( <i>Go to Q47</i> ) 2 = 1 visit 3 = 2 to 4 visits 4 = 5 to 9 visits 5 = 10 or more visits
93	Smoking Advice Question (Q45)	102	Beneficiary's response to Q45 from the <i>Cohort II Baseline</i> survey: <i>In the last 6 months, on how many visits were you advised to quit smoking by a doctor or other health professional in your plan?</i> 1 = None 2 = 1 visit 3 = 2 to 4 visits 4 = 5 to 9 visits 5 = 10 or more visits 6 = I had no visits in the last 6 months
94	Retirement Community Question (Q53)	103	Beneficiary's response to Q53 from the <i>Cohort II Baseline</i> survey: <i>Is this house or apartment in a retirement community, building or complex?</i> 1 = Yes 2 = No
95	Retirement Community Medical Services Question (Q54)	104	Beneficiary's response to Q54 from the <i>Cohort II Baseline</i> survey (if answered "yes" to Q53): <i>Does this retirement community/building/facility provide medical services?</i> 1 = Yes 2 = No

## BASELINE SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
96	Person Completing the Survey (Q55)	105	Beneficiary's response to Q55 from the <i>Cohort II Baseline</i> survey: <i>Who completed this survey form?</i> 1 = Person to whom the survey was addressed 2 = Family member or relative of person to whom the survey was addressed 3 = Friend of person to whom the survey was addressed 4 = Professional caregiver of person to whom the survey was addressed

## BASELINE SURVEY ADMINISTRATION

Var #	Field Description	Field Position	Additional Information and Valid Values
97	Baseline Survey Disposition	106 – 108	(SPECIAL NOTE: this variable contains a character string): M10 = completed survey by mail (≥ 80% complete) T10 = completed survey by telephone (≥ 80% complete) M11 = nonresponse: partial complete by mail (≥ 50% but < 80% complete) T11 = nonresponse: partial complete by telephone (≥ 50% but < 80% complete) M31 = nonresponse: break-off (<50% complete) T31 = nonresponse: break-off (<50% complete)
98	Baseline Round Survey Returned	109 - 110	(SPECIAL NOTE: this variable contains a character string): 1 = 1 <sup>st</sup> mailing 2 = 2 <sup>nd</sup> mailing 3 = 1 <sup>st</sup> telephone 4 = 2 <sup>nd</sup> telephone 5 = 3 <sup>rd</sup> telephone 6 = 4 <sup>th</sup> telephone 7 = 5 <sup>th</sup> telephone 8 = 6 <sup>th</sup> telephone 9 = 7 <sup>th</sup> telephone 10 = 8 <sup>th</sup> telephone 11 = Partially completed by mail and converted to complete by telephone 12 = Not completed
99	Percent of Baseline Survey Completed	111 – 115	Range: 0 to 100% (value is rounded to the tenth decimal place)
100	Baseline Survey Language	116	1 = English 2 = Spanish 3 = Not applicable

## FOLLOW-UP SURVEY QUESTION RESPONSES

Var #	Field Description	Field Position	Additional Information and Valid Values
101	General Health Question (Q1)	117	Beneficiary's response to Q1 from the <i>Cohort II Follow-Up</i> survey: <i>In general, would you say your health is:</i> 1 = Excellent 2 = Very Good 3 = Good 4 = Fair 5 = Poor
102	Health Transition Question (Q2)	118	Beneficiary's response to Q2 from the <i>Cohort II Follow-Up</i> survey: <i>Compared to one year ago, how would you rate your health in general now?</i> 1 = Much better now than one year ago 2 = Somewhat better now than one year ago 3 = About the same as one year ago 4 = Somewhat worse now than one year ago 5 = Much worse now than one year ago
103	Vigorous Activities Question (Q3a)	119	Beneficiary's response to Q3a from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Vigorous activities</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
104	Moderate Activities Question (Q3b)	120	Beneficiary's response to Q3b from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Moderate activities</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
105	Lifting or Carrying Groceries Question (Q3c)	121	Beneficiary's response to Q3c from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Lifting or Carrying Groceries</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
106	Climbing Several Flights of Stairs Question (Q3d)	122	Beneficiary's response to Q3d from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities? If so, how much?</i> <u>Climbing several flights of stairs</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all



## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
107	Climbing One Flight of Stairs Question (Q3e)	123	Beneficiary's response to Q3e from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Climbing one flight of stairs</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
108	Bending, Kneeling, or Stooping Question (Q3f)	124	Beneficiary's response to Q3f from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Bending, kneeling, or stooping</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
109	Walking More than a Mile Question (Q3g)	125	Beneficiary's response to Q3g from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Walking more than a mile</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
110	Walking Several Blocks Question (Q3h)	126	Beneficiary's response to Q3h from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Walking several blocks</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
111	Walking One Block Question (Q3i)	127	Beneficiary's response to Q3i from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Walking one block</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all
112	Bathing or Dressing Question (Q3j)	128	Beneficiary's response to Q3j from the <i>Cohort II Follow-Up</i> survey: <i>Does your health limit you in these activities?</i> <i>If so, how much?</i> <u>Bathing or dressing yourself</u> 1 = Yes, limited a lot 2 = Yes, limited a little 3 = No, not limited at all

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
113	Physical Health Limiting Time Spent on Activities Question (Q4a)	129	Beneficiary's response to Q4a from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of your physical health?</i> <u>Cut down on the amount of time you spent on work or other activities</u> 1 = Yes 2 = No
114	Physical Health Limiting Amount Accomplished Question (Q4b)	130	Beneficiary's response to Q4b from the <i>Cohort II Follow-Up</i> survey: <i>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?</i> <u>Accomplished less than you would like</u> 1 = Yes 2 = No
115	Physical Health Limiting the Kind of Activities Question (Q4c)	131	Beneficiary's response to Q4c from the <i>Cohort II Follow-Up</i> survey: <i>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?</i> <u>Were limited in the kind of work or other activities</u> 1 = Yes 2 = No
116	Physical Health Causing Difficulty Performing Activities Question (Q4d)	132	Beneficiary's response to Q4d from the <i>Cohort II Follow-Up</i> survey: <i>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?</i> <u>Had difficulty performing the work or other activities</u> 1 = Yes 2 = No
117	Emotional Problems Limiting Time Spent on Activities Question (Q5a)	133	Beneficiary's response to Q5a from the <i>Cohort II Follow-Up</i> survey: <i>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 any emotional problems?</i> <u>Cut down on the amount of time you spent on work or other activities</u> 1 = Yes 2 = No

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
118	Emotional Problems Limiting Amount Accomplished Question (Q5b)	134	Beneficiary's response to Q5b from the <i>Cohort II Follow-Up</i> survey: <i>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 any emotional problems?</i> <u>Accomplished less than you would like</u> 1 = Yes 2 = No
119	Emotional Problems Limiting Carefulness Question (Q5c)	135	Beneficiary's response to Q5c from the <i>Cohort II Follow-Up</i> survey: <i>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 any emotional problems?</i> <u>Didn't do work or other activities as carefully as usual</u> 1 = Yes 2 = No
120	Extent Health Interfering with Social Activities Question (Q6)	136	Beneficiary's response to Q6 from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities?</i> 1 = Not at all 2 = Slightly 3 = Moderately 4 = Quite a bit 5 = Extremely
121	Bodily Pain Question (Q7)	137	Beneficiary's response to Q7 from the <i>Cohort II Follow-Up</i> survey: <i>How much bodily pain have you had during the past 4 weeks?</i> 1 = None 2 = Very mild 3 = Mild 4 = Moderate 5 = Severe 6 = Very severe
122	Pain Interfering with Work Question (Q8)	138	Beneficiary's response to Q8 from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how much did pain interfere with your normal work?</i> 1 = Not at all 2 = A little bit 3 = Moderately 4 = Quite a bit 5 = Extremely

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
123	Full of Pep Question (Q9a)	139	Beneficiary's response to Q9a from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel full of pep?</u> 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
124	Nervous Question (Q9b)	140	Beneficiary's response to Q9b from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you been a very nervous person?</u> 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
125	Down in the Dumps Question (Q9c)	141	Beneficiary's response to Q9c from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt so down in the dumps that nothing could cheer you up?</u> 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
126	Calm and Peaceful Question (Q9d)	142	Beneficiary's response to Q9d from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt calm and peaceful?</u> 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
127	Lots of Energy Question (Q9e)	143	Beneficiary's response to Q9e from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you have a lot of energy?</u> 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

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
128	Downhearted and Blue Question (Q9f)	144	Beneficiary's response to Q9f from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you felt downhearted and blue?</u> 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
129	Feeling Worn Out Question (Q9g)	145	Beneficiary's response to Q9g from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel worn out?</u> 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
130	Happy Question (Q9h)	146	Beneficiary's response to Q9h from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Have you been a happy person?</u> 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
131	Feeling Tired Question (Q9i)	147	Beneficiary's response to Q9i from the <i>Cohort II Follow-Up</i> survey: <i>How much of the time during the past 4 weeks...</i> <u>Did you feel tired?</u> 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
132	Amount of Time Health Interfering with Social Activities Question (Q10)	148	Beneficiary's response to Q10 from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities?</i> 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

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
133	Sick Easier Question (Q11a)	149	Beneficiary's response to Q11a from the <i>Cohort II Follow-Up</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I seem to get sick a little easier than other people</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
134	As Healthy Question (Q11b)	150	Beneficiary's response to Q11b from the <i>Cohort II Follow-Up</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I am as healthy as anybody I know</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
135	Future Health Question (Q11c)	151	Beneficiary's response to Q11c from the <i>Cohort II Follow-Up</i> survey: <i>How true or false is each of the following statements for you?</i> <u>I expect my health to get worse</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
136	Excellent Health Question (Q11d)	152	Beneficiary's response to Q11d from the <i>Cohort II Follow-Up</i> survey: <i>How true or false is each of the following statements for you?</i> <u>My health is excellent</u> 1 = Definitely true 2 = Mostly true 3 = Don't know 4 = Mostly false 5 = Definitely false
137	Bathing Question (Q12a)	153	Beneficiary's response to Q12a from the <i>Cohort II Follow-Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Bathing</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
138	Dressing Question (Q12b)	154	Beneficiary's response to Q12b from the <i>Cohort II Follow-Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Dressing</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
139	Eating Question (Q12c)	155	Beneficiary's response to Q12c from the <i>Cohort II Follow-Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Eating</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
140	Getting In or Out of Chairs Question (Q12d)	156	Beneficiary's response to Q12d from the <i>Cohort II Follow-Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Getting in or out of chairs</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
141	Walking Question (Q12e)	157	Beneficiary's response to Q12e from the <i>Cohort II Follow-Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Walking</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty
142	Using the Toilet Question (Q12f)	158	Beneficiary's response to Q12f from the <i>Cohort II Follow-Up</i> survey: <i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i> <u>Using the toilet</u> 1 = I am unable to do this activity 2 = Yes, I have difficulty 3 = No, I do not have difficulty

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
143	Chest Pain or Pressure on Exertion Question (Q13a)	159	Beneficiary's response to Q13a from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how often have you had any of the following problems?</i> <u>Chest pain or pressure when you exercise</u> 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
144	Chest Pain or Pressure at Rest Question (Q13b)	160	Beneficiary's response to Q13b from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how often have you had any of the following problems?</i> <u>Chest pain or pressure when resting</u> 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
145	Orthopnea Question (Q14a)	161	Beneficiary's response to Q14a from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When lying down flat</u> 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
146	Dyspnea when Sitting or Resting Question (Q14b)	162	Beneficiary's response to Q14b from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When sitting or resting</u> 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



## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
147	Dyspnea when Walking Less than One Block Question (Q14c)	163	Beneficiary's response to Q14c from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When walking less than one block</u> 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
148	Dyspnea when Climbing One Flight of Stairs Question (Q14d)	164	Beneficiary's response to Q14d from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i> <u>When climbing one flight of stairs</u> 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
149	Numbness in Feet Question (Q15a)	165	Beneficiary's response to Q15a from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Numbness or loss of feeling in your feet</u> 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
150	Ankle or Leg Edema Question (Q15b)	166	Beneficiary's response to Q15b from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Ankles or legs that swell as the day goes on</u> 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

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
151	Foot Tingling or Burning Question (Q15c)	167	Beneficiary's response to Q15c from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Tingling or burning sensation in your feet especially at night</u> 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
152	Decreased Temperature Sensation in Feet Question (Q15d)	168	Beneficiary's response to Q15d from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Decreased ability to feel hot or cold with your feet</u> 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
153	Sores or Wounds on Feet Question (Q15e)	169	Beneficiary's response to Q15e from the <i>Cohort II Follow-Up</i> survey: <i>During the past 4 weeks, how much of the time have you had any of the following problems with your legs and feet?</i> <u>Sores or wounds on your feet that did not heal</u> 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
154	Hemiparalysis or Weakness Question (Q16a)	170	Beneficiary's response to Q16a from the <i>Cohort II Follow-Up</i> survey: <i>Have you ever had paralysis or weakness on one side of the body?</i> 1 = Yes, I have it 2 = Yes, but it went away 3 = No
155	Lost Ability to Talk Question (Q16b)	171	Beneficiary's response to Q16b from the <i>Cohort II Follow-Up</i> survey: <i>Have you ever lost the ability to talk?</i> 1 = Yes, I have lost it 2 = Yes, but it returned 3 = No

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
156	Vision Question (Q17)	172	Beneficiary's response to Q17 from the <i>Cohort II Follow-Up</i> survey: <i>Can you see well enough to read newspaper print (with your glasses or contacts if that's how you see best)?</i> 1 = Yes 2 = No
157	Hearing Question (Q18)	173	Beneficiary's response to Q18 from the <i>Cohort II Follow-Up</i> survey: <i>Can you hear most of the things people say (with a hearing aid if that's how you hear best)?</i> 1 = Yes 2 = No
158	Acid Indigestion Question (Q19)	174	Beneficiary's response to Q19 from the <i>Cohort II Follow-Up</i> survey: <i>Do you now have acid indigestion or heartburn?</i> 1 = Yes 2 = No
159	Difficulty Controlling Urination Question (Q20)	175	Beneficiary's response to Q20 from the <i>Cohort II Follow-Up</i> survey: <i>Do you have difficulty controlling urination?</i> 1 = Yes 2 = No
160	Hypertension Question (Q21)	176	Beneficiary's response to Q21 from the <i>Cohort II Follow-Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Hypertension or high blood pressure</u> 1 = Yes 2 = No
161	Angina Pectoris or Coronary Artery Disease Question (Q22)	177	Beneficiary's response to Q22 from the <i>Cohort II Follow-Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Angina pectoris or coronary artery disease</u> 1 = Yes 2 = No
162	Congestive Heart Question (Q23)	178	Beneficiary's response to Q23 from the <i>Cohort II Follow-Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Congestive heart failure</u> 1 = Yes 2 = No
163	Myocardial Infarction Question (Q24)	179	Beneficiary's response to Q24 from the <i>Cohort II Follow-Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>A myocardial infarction or heart attack</u> 1 = Yes 2 = No

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
164	Other Heart Conditions Question (Q25)	180	Beneficiary's response to Q25 from the <i>Cohort II Follow-Up</i> survey: Has a doctor ever told you that you had: <u>Other heart conditions</u> 1 = Yes 2 = No
165	Stroke Question (Q26)	181	Beneficiary's response to Q26 from the <i>Cohort II Follow-Up</i> survey: Has a doctor ever told you that you had: <u>A stroke</u> 1 = Yes 2 = No
166	COPD Question (Q27)	182	Beneficiary's response to Q27 from the <i>Cohort II Follow-Up</i> survey: Has a doctor ever told you that you had: <u>Emphysema, or asthma, or COPD</u> 1 = Yes 2 = No
167	Inflammatory Bowel Disease Question (Q28)	183	Beneficiary's response to Q28 from the <i>Cohort II Follow-Up</i> survey: Has a doctor ever told you that you had: <u>Crohn's disease, ulcerative colitis, or inflammatory bowel disease</u> 1 = Yes 2 = No
168	Arthritis of Hip or Knee Question (Q29)	184	Beneficiary's response to Q29 from the <i>Cohort II Follow-Up</i> survey: Has a doctor ever told you that you had: <u>Arthritis of the hip or knee</u> 1 = Yes 2 = No
169	Arthritis of Hand or Wrist Question (Q30)	185	Beneficiary's response to Q30 from the <i>Cohort II Follow-Up</i> survey: Has a doctor ever told you that you had: <u>Arthritis of the hand or wrist</u> 1 = Yes 2 = No
170	Sciatica Question (Q31)	186	Beneficiary's response to Q31 from the <i>Cohort II Follow-Up</i> survey: Has a doctor ever told you that you had: <u>Sciatica</u> 1 = Yes 2 = No
171	Diabetes Question (Q32)	187	Beneficiary's response to Q32 from the <i>Cohort II Follow-Up</i> survey: Has a doctor ever told you that you had: <u>Diabetes, high blood sugar, or sugar in the urine</u> 1 = Yes 2 = No

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
172	Any Cancer Question (Q33)	188	Beneficiary's response to Q33 from the <i>Cohort II Follow-Up</i> survey: <i>Has a doctor ever told you that you had:</i> <u>Any cancer (other than skin cancer)</u> 1 = Yes 2 = No
173	Arthritis Pain Question (Q34)	189	Beneficiary's response to Q34 from the <i>Cohort II Follow-Up</i> survey (if answered "yes" to Q29 or Q30): <i>During the past 4 weeks, how would you describe the arthritis pain you usually had?</i> 1 = None 2 = Very mild 3 = Mild 4 = Moderate 5 = Severe
174	Colorectal Cancer Treatment Question (Q35a)	190	Beneficiary's response to Q35a from the <i>Cohort II Follow-Up</i> survey (if answered "yes" to Q33): <i>Are you currently under treatment for:</i> <u>Colon or rectal cancer</u> 1 = Yes 2 = No
175	Lung Cancer Treatment Question (Q35b)	191	Beneficiary's response to Q35b from the <i>Cohort II Follow-Up</i> survey (if answered "yes" to Q33): <i>Are you currently under treatment for:</i> <u>Lung cancer</u> 1 = Yes 2 = No
176	Breast Cancer Treatment Question (Q35c)	192	Beneficiary's response to Q35c from the <i>Cohort II Follow-Up</i> survey (if answered "yes" to Q33): <i>Are you currently under treatment for:</i> <u>Breast cancer</u> 1 = Yes 2 = No
177	Prostate Cancer Treatment Question (Q35d)	193	Beneficiary's response to Q35d from the <i>Cohort II Follow-Up</i> survey (if answered "yes" to Q33): <i>Are you currently under treatment for:</i> <u>Prostate cancer</u> 1 = Yes 2 = No
178	Low Back Pain Question (Q36)	194	Beneficiary's response to Q36 from the <i>Cohort II Follow-Up</i> survey: <i>In the past 4 weeks, how often has low back pain interfered with your usual daily activities?</i> 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

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
179	Pain, Numbness, or Tingling Down Leg Question (Q37)	195	Beneficiary's response to Q37 from the <i>Cohort II Follow-Up</i> survey: <i>In the past 4 weeks, how often did you have pain, numbness or tingling that travels down your leg and below your knee?</i> 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
180	Two Weeks of Depression Question (Q38)	196	Beneficiary's response to Q38 from the <i>Cohort II Follow-Up</i> survey: <i>In the past year, have you had 2 weeks or more during which you felt sad, blue or depressed; or when you lost interest or pleasure in things that you usually cared about or enjoyed?</i> 1 = Yes 2 = No
181	Depression Much of the Time Question (Q39)	197	Beneficiary's response to Q39 from the <i>Cohort II Follow-Up</i> survey: <i>In the past year, have you felt depressed or sad much of the time?</i> 1 = Yes 2 = No
182	Depression Most of the Time Question (Q40)	198	Beneficiary's response to Q40 from the <i>Cohort II Follow-Up</i> survey: <i>Have you ever had 2 years or more in your life when you felt depressed or sad most days, even if you felt okay sometimes?</i> 1 = Yes 2 = No
183	Comparative Health Question (Q41)	199	Beneficiary's response to Q41 from the <i>Cohort II Follow-Up</i> survey: <i>In general, compared to other people your age, would you say that your health is:</i> 1 = Excellent 2 = Very good 3 = Good 4 = Fair 5 = Poor
184	Smoked 100 Cigarettes Question (Q42)	200	Beneficiary's response to Q42 from the <i>Cohort II Follow-Up</i> survey: <i>Have you ever smoked at least 100 cigarettes in your entire life?</i> 1 = Yes (Go to Q43) 2 = No (Go to Q46) 3 = Don't know (Go to Q46)

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
185	Current Smoker Question (Q43)	201	Beneficiary's response to Q43 from the <i>Cohort II Follow-Up</i> survey: <i>Do you now smoke every day, some days, or not at all?</i> 1 = Every day ( <i>Go to Q45</i> ) 2 = Some days ( <i>Go to Q45</i> ) 3 = Not at all ( <i>Go to Q44</i> ) 4 = Don't know ( <i>Go to Q46</i> )
186	Quit Smoking Question (Q44)	202	Beneficiary's response to Q44 from the <i>Cohort II Follow-Up</i> survey: <i>How long has it been since you quit smoking cigarettes?</i> 1 = Less than 6 months ( <i>Go to Q45</i> ) 2 = 6 months or more ( <i>Go to Q46</i> ) 3 = Don't know ( <i>Go to Q46</i> )
	Visiting a Doctor Question (previously Q45 in the <i>Cohort I Baseline</i> survey)  <b>* This question was not included in the <i>Cohort II Follow-Up</i> survey.</b>		Beneficiary's response to Q45 from the <i>Cohort I Baseline</i> survey: <i>During the past 12 months, how many times have you visited a doctor or health professional in your plan (not counting overnight hospital visits)?</i> 1 = None ( <i>Go to Q47</i> ) 2 = 1 visit 3 = 2 to 4 visits 4 = 5 to 9 visits 5 = 10 or more visits
187	Smoking Advice Question (Q45)	204	Beneficiary's response to Q45 from the <i>Cohort II Follow-Up</i> survey: <i>In the last 6 months, on how many visits were you advised to quit smoking by a doctor or other health provider in your plan?</i> 1 = None 2 = 1 visit 3 = 2 to 4 visits 4 = 5 to 9 visits 5 = 10 or more visits 6 = I had no visits in the last 6 months
188	Retirement Community Question (Q53)	205	Beneficiary's response to Q53 from the <i>Cohort II Follow-Up</i> survey: <i>Is this house or apartment in a retirement community, building or complex?</i> 1 = Yes 2 = No
189	Retirement Community Medical Services Question (Q54)	206	Beneficiary's response to Q54 from the <i>Cohort II Follow-Up</i> survey (if answered "yes" to Q53): <i>Does this retirement community/building/facility provide medical services?</i> 1 = Yes 2 = No

## FOLLOW-UP SURVEY QUESTION RESPONSES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
190	Person Completing the Survey (Q55)	207	Beneficiary's response to Q55 from the <i>Cohort II Follow-Up</i> survey: <i>Who completed this survey form?</i> 1 = Person to whom the survey was addressed 2 = Family member or relative of person to whom the survey was addressed 3 = Friend of person to whom the survey was addressed 4 = Professional caregiver of person to whom the survey was addressed

## FOLLOW-UP SURVEY ADMINISTRATION

Var #	Field Description	Field Position	Additional Information and Valid Values
191	Follow-Up Survey Disposition	208 – 210	(SPECIAL NOTE: this variable contains character strings): M10 = completed survey by mail (≥ 80% complete) T10 = completed survey by telephone (≥ 80% complete) M11 = nonresponse: partial complete by mail (≥ 50% but < 80% complete) T11 = nonresponse: partial complete by telephone (≥ 50% but < 80% complete) M20 = ineligible: deceased T20 = ineligible: deceased M21 = ineligible: not enrolled in HMO T21 = ineligible: not enrolled in HMO M22 = ineligible: end-stage renal disease T22 = ineligible: end-stage renal disease M23 = ineligible: language problem T23 = ineligible: language problem M24 = ineligible: phone no. unavailable T24 = ineligible: phone no. unavailable M31 = nonresponse: break-off (<50% complete) T31 = nonresponse: break-off (<50% complete) M32 = nonresponse: refusal T32 = nonresponse: refusal M33 = nonresponse: Respondent unavailable T33 = nonresponse: Respondent unavailable M34 = nonresponse: Respondent physically/mentally incapacitated T34 = nonresponse: Respondent physically/mentally incapacitated M35 = nonresponse: Respondent institutionalized T35 = nonresponse: Respondent institutionalized M36 = nonresponse: after maximum attempts T36 = nonresponse: after maximum attempts



## FOLLOW-UP SURVEY ADMINISTRATION (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
192	Follow-Up Round Survey Returned	211-212	(SPECIAL NOTE: this variable contains a character string): 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 MT = Partially completed by mail and converted to complete by telephone NC = Not completed
193	Percent of Follow-Up Survey Completed	213– 217	Range: 0 to 100% (value is rounded to the tenth decimal place)
194	Follow-Up Survey Language	218	1 = English 2 = Spanish 3 = Not Applicable

## ADDITIONAL VARIABLES

Var #	Field Description	Field Position	Additional Information and Valid Values
195	Cohort Identifier	219– 221	Cohort in which the HOS surveys contained in this data set were submitted: Value for each record = “A02”
196	CMS Plan Region	222– 223	1 = Region I – Boston (serving Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont) 2 = Region II – New York (serving New York, New Jersey, Puerto Rico, and the Virgin Islands) 3 = Region III – Philadelphia (serving Delaware, Washington DC, Maryland, Pennsylvania, Virginia, and West Virginia) 4 = Region IV - Atlanta (serving Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee) 5 = Region V – Chicago (serving Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin) 6 = Region VI – Dallas (serving Arkansas, Louisiana, New Mexico, Oklahoma, and Texas) 7 = Region VII – Kansas City (serving Iowa, Kansas, Missouri, and Nebraska) 8 = Region VIII – Denver (serving Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming) 9 = Region IX – San Francisco (serving Arizona, California, Guam, Hawaii, and Nevada) 10 = Region X – Seattle (serving Alaska, Idaho, Oregon, and Washington)

## ADDITIONAL VARIABLES (CONT.)

Var #	Field Description	Field Position	Additional Information and Valid Values
197	Follow-Up Sample Indicator	224	Indicates if the record was included in the <i>Cohort II Follow-Up</i> sample 1 = Eligible for Follow-Up 2 = Not Eligible for Follow-Up
198	Analytic Sample Indicator	225	Indicates status of the record in the analytic file. 1 = Respondent 2 = Nonrespondent 3 = Invalid 4 = Disenrolled 5 = Dead