

PERFORMANCE  
MEASUREMENT

ELECTRONIC DATA  
USER'S GUIDE

*Cohort III*  
2000-2002

# MEDICARE HEALTH OUTCOMES SURVEY

CENTERS  
FOR MEDICARE  
& MEDICAID  
SERVICES

HEALTH  
SERVICES  
ADVISORY  
GROUP



**HSAG**  
HEALTH SERVICES  
ADVISORY GROUP

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# Preface

The Centers for Medicare & Medicaid Services (CMS) is committed to monitoring the quality of care provided by Medicare + Choice Organizations (M+COs). The Medicare Health Outcomes Survey (HOS) is the first health outcomes measure for the Medicare population in managed care settings. The HOS design is based on a randomly selected sample of individuals from each participating 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 its Medicare beneficiaries over a two-year period of time. The functional status of the elderly is known to decline over such a period.<sup>1</sup> The HOS results are 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, which are specific to each individual plan. The HOS results are an important part of CMS' quality improvement activities, as current law authorizes Quality Improvement Organizations (QIOs) to review the quality of care provided to Medicare beneficiaries. The goals of HOS are to help beneficiaries make informed health care choices and to promote quality improvement based on competition.

The *Cohort III* Performance Measurement Results (released in August 2003) describe a change in health over time, which is characterized in terms of the direction and magnitude for all beneficiaries in a given plan. The results from this study describe the outcomes of a randomly selected set of members from each participating plan between 2000 and 2002. As part of the survey implementation policy, M+COs have been notified that the beneficiary level data used to generate results for the *Cohort III* Performance Measurement Report are available and will be forwarded to their plan upon request.

This **Electronic Data User's Guide** is designed to assist QIOs with the use of the accompanying beneficiary level *Cohort III* Performance Measurement Electronic Data File. These data are intended to support M+CO and QIO quality improvement activities.

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<sup>1</sup> National Committee for Quality Assurance. *HEDIS® 2002, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2002.

# Introduction

## BACKGROUND

CMS, in collaboration with the National Committee for Quality Assurance (NCQA), launched the first Medicare managed care outcomes measure in the Health Plan Employer Data and Information Set (HEDIS<sup>®</sup>) in 1998.<sup>2</sup> The measure includes the most recent advances in summarizing physical and mental health outcomes results and appropriate risk adjustment techniques. This measure was initially titled Health of Seniors and was renamed the Medicare Health Outcomes Survey during the first year of implementation. This name change was intended to reflect the inclusion of Medicare recipients who are disabled and not seniors (not age 65 or older) in the sampling methodology.

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 provide input for developing the science of the HOS measure. CMS has contracted with NCQA to support the standardized administration of the HOS survey, including selecting, training, and certifying independent survey vendors with whom the plans contract to administer the survey.

In 1998, CMS required Medicare MCOs with contracts in effect on or before January 1, 1997 to participate in the HOS. Some Medicare MCOs were required to report by market areas, geographic areas containing more than 5,000 members that generally are 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 the HOS. In addition, selected Program of All-inclusive Care for the Elderly (PACE) 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 2000. 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 in 2001.

In 2002, 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, 2001 to participate in the *Cohort V Baseline* survey. In addition, all plans with contracts in place on or

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<sup>2</sup> HEDIS<sup>®</sup> is a registered trademark of the National Committee for Quality Assurance.

before January 1, 1999 that participated in the *Cohort III Baseline* survey in 2000 were required to participate in the *Cohort III Follow Up* survey in 2002.<sup>3</sup>

Data collection for *Cohort III Baseline* occurred in 2000, and findings were distributed to M+COs and QIOs in 2001. *Cohort III Baseline* beneficiary level electronic data were disseminated to QIOs in 2001. Data collection for *Cohort III Follow Up* occurred in 2002. These data were combined with *Cohort III Baseline* data to create a merged *Cohort III* Performance Measurement Data File. This file was used to generate the *Cohort III* Performance Measurement Reports, which were distributed to participating QIOs in August 2003 and to participating plans via CMS' Health Plan Management System (HPMS) in October 2003.

For further background on the Medicare HOS, please refer to the *Cohort III* Performance Measurement Report. The Medicare HOS Information and Technical Support Telephone Line (1-888-880-0077), as well as the HOS e-mail address ([hos@azqio.sdps.org](mailto:hos@azqio.sdps.org)), are available to provide technical assistance. Additionally, the Medicare HOS website provides general information on the project and responses to Frequently Asked Questions (<http://www.cms.hhs.gov/surveys/hos>).

## **MEDICARE HEALTH OUTCOMES SURVEY INSTRUMENT**

The HOS instrument consists of the SF-36<sup>®</sup> Health Survey<sup>4, 5</sup> and additional questions, including those used for case mix and risk adjustment purposes.

### SF-36<sup>®</sup> Health Survey

The SF-36<sup>®</sup> is a multi-purpose, short-form health survey with only 36 questions. It yields an 8-scale profile of scores, as well as physical and mental health summary measures. It is a generic measure, as opposed to one that targets a specific age, disease, or treatment group. As documented in more than 2,500 publications, 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. The most complete information about the history and development of the SF-36<sup>®</sup>, its psychometric evaluation, studies of reliability and validity, and normative data is available in two user's manuals.<sup>5, 6</sup> Figure 1, on page 4, illustrates the taxonomy of items and concepts underlying the construction of the SF-36<sup>®</sup> Physical Component Summary (PCS) and Mental Component Summary (MCS) measures. The SF-36<sup>®</sup> is scored from 0 to 100 points, with higher scores indicating better functioning on both the individual scales and summary measures (PCS and MCS). For additional information on the scoring of the SF-36<sup>®</sup>, please refer to the Scoring SF-36<sup>®</sup> Physical and Mental Health Summary Measures subsection on page 7.

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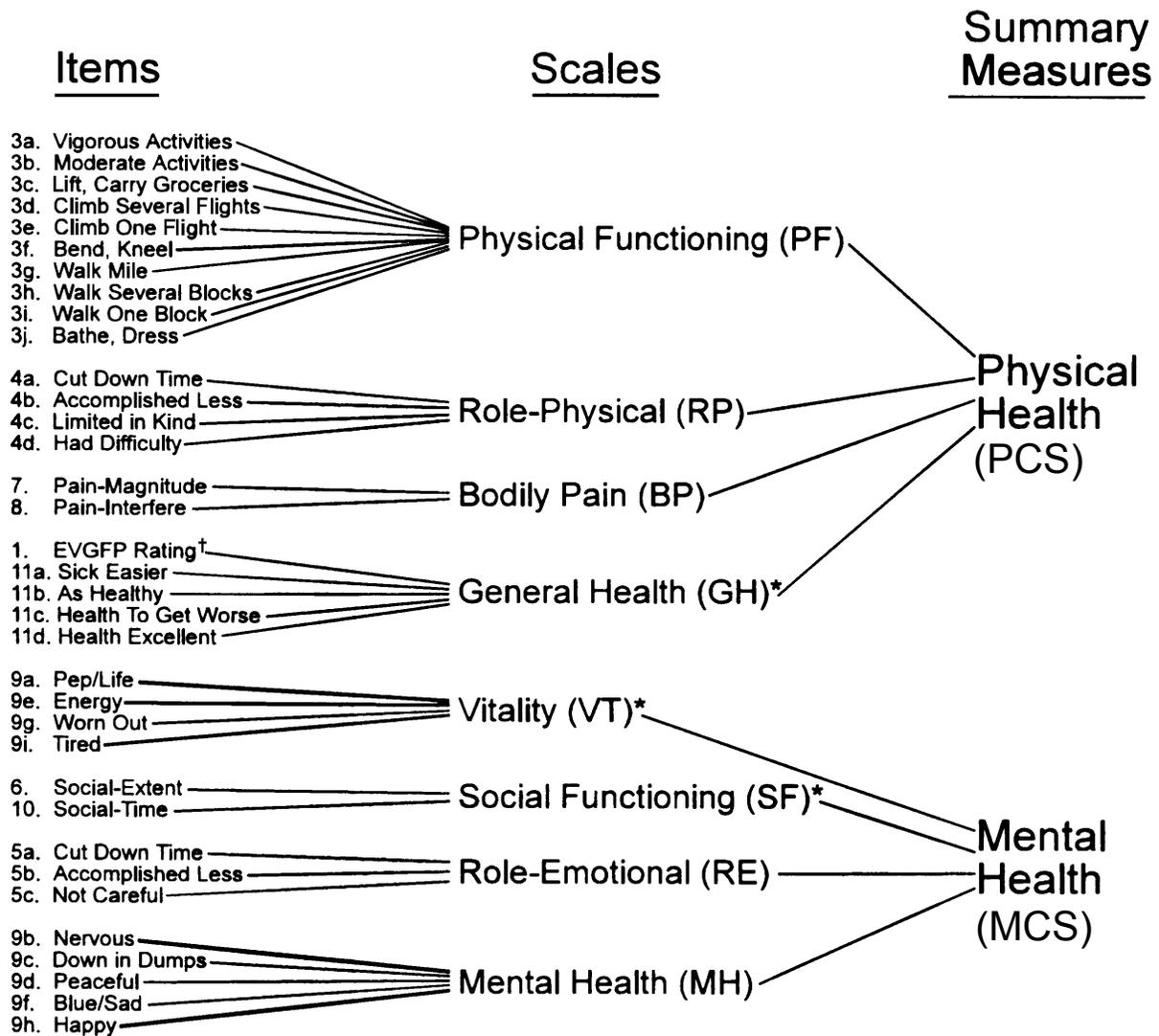
<sup>3</sup> National Committee for Quality Assurance. *HEDIS<sup>®</sup> 2002, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2002.

<sup>4</sup> SF-36<sup>®</sup> is a registered trademark of the Medical Outcomes Trust.

<sup>5</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>6</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.

**FIGURE 1: SF-36<sup>®</sup> MEASUREMENT MODEL**



\* Significant correlation with other summary measure

† EVGFP Rating: In general, would you say your health is:  
Excellent Very Good Good Fair Poor

Source: Ware JE, Kosinski M, Keller SD. *SF-36<sup>®</sup> Physical and Mental Health Summary Scales: A User's Manual*. Boston, MA: The Health Institute, 1994.

## Case Mix Adjustment Questions

In general, risk adjustment is a method that adjusts for multiple factors, which may impact an outcome of interest. Case mix adjustment, which is a type of risk adjustment, adjusts the resulting data for patient characteristics that are known to be related to systematic biases in the way people respond to survey questions. In the case of the HOS performance measurement data, multivariate statistical methods were used for case mix adjustment so all plans would be as similar as possible in terms of demographic and socioeconomic characteristics, chronic medical conditions, general health status, and other design variables. The Medicare HOS performance measurement case mix methodology was developed by the Health Assessment Lab (HAL).

The HOS instrument also includes questions on demographics, chronic medical conditions, and activities of daily living (ADLs). Demographics include questions on beneficiary age, gender, race, education, marital status, and annual household income.

Thirteen chronic medical conditions are included in the questionnaire. These conditions are: hypertension; angina pectoris or coronary artery disease; congestive heart failure; myocardial infarction or heart attack; other heart conditions, such as heart valve defects or arrhythmias; stroke; emphysema, asthma, or chronic obstructive pulmonary disease; inflammatory bowel disease, including Crohn's disease and ulcerative colitis; arthritis of the hip or knee; arthritis of the hand or wrist; sciatica; diabetes, hyperglycemia, or glycosuria; and any cancer (other than skin cancer).

Six ADLs are included in the HOS survey to determine self-reported difficulty with performance of daily tasks. ADLs include bathing, dressing, eating, getting in or out of chairs, walking, and using the toilet.

For further information on the Medicare HOS instrument, please refer to the *Cohort III Performance Measurement Report* and *HEDIS<sup>®</sup> 2002, Volume 6: Specifications for the Medicare Health Outcomes Survey* (referred to as the *2002 HOS Manual*).<sup>7</sup>

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<sup>7</sup>National Committee for Quality Assurance. *HEDIS<sup>®</sup> 2002, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2002.

# Methodology

## SAMPLING METHODOLOGY

The HOS measure is administered annually to a randomly selected sample of individuals at baseline from each M+CO. The sampling methodology is dependent upon the size of a plan's population. For M+COs with Medicare populations of more than 1,000 members, a simple random sample of 1,000 members is selected for the baseline survey. In those M+COs with 2,000 or more members, members who responded to the *Cohort II Baseline* survey were excluded from the *Cohort III Baseline* sample. For M+COs with populations of 1,000 members or less, all eligible members are included in the sample for the baseline survey.

For the *Cohort III Follow Up* sample, CMS identified beneficiaries from the *Cohort III Baseline* sample who were eligible for remeasurement. Members were eligible for remeasurement if they had sufficient SF-36<sup>®</sup> data to derive PCS and MCS scores at baseline. Beneficiaries were excluded from *Cohort III Follow Up* if they disenrolled from their M+CO subsequent to the *Cohort III Baseline* survey, or were deceased subsequent to the *Cohort III Baseline* survey. Although deceased beneficiaries are excluded from the *Cohort III Follow Up* sample, CMS includes deceased beneficiaries when calculating the HOS performance measurement results.<sup>8</sup>

## DISTRIBUTION OF THE SAMPLE

The 2000 *Cohort III Baseline* Medicare HOS included a random sample of 298,883 beneficiaries, including both the aged and disabled, from 275 managed care plans. Of the 298,883 individuals sampled, 66.4% (198,451) completed the baseline survey. Of the 198,451 respondents, 186,277 were seniors (age 65 or older) who returned a completed survey. A completed survey was defined as one that could be used to calculate PCS and MCS scores. During the two years between the 2000 *Cohort III Baseline* survey and the 2002 *Cohort III Follow Up* survey, a number of M+COs discontinued offering managed care to Medicare beneficiaries, or consolidated with other health plans. As a result of these changes, 146 reporting units (M+COs) and 122,317 beneficiaries who were seniors remained in the HOS at the time of follow up. For purposes of plan comparisons, this group of 122,317 beneficiaries comprises the *Cohort III Performance Measurement analytic sample*.

At the time of follow up, 76,827 beneficiaries were seniors age 65 or older who had completed a baseline survey and were still alive and enrolled in their original M+CO. These beneficiaries are referred to as the *Cohort III Follow Up eligible sample*. A total of 59,578 beneficiaries returned a survey that could be used to estimate PCS and MCS scores. These 59,578 beneficiaries comprise the *Cohort III Follow Up respondent sample*.

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<sup>8</sup> National Committee for Quality Assurance. *HEDIS<sup>®</sup> 2002, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2002.

The performance measurement results are based on the analytic sample of 122,317 and not the entire population sampled at baseline and follow up. At the national level, 8,987 beneficiaries died between baseline and the two-year follow up. Another 36,503 beneficiaries voluntarily disenrolled from their M+COs during the same two-year period. Of the 76,827 individuals eligible for follow up, 59,578 beneficiaries responded; 16,459 beneficiaries did not respond to the follow up survey; and 790 beneficiaries were determined to be invalid members at follow up.<sup>9</sup> It is important to remember that a respondent is defined as an eligible beneficiary who returned a survey that could be used to estimate PCS and MCS scores.

For further information on the distribution of the analytic sample at the plan and state level, please refer to the Executive Summary of the *Cohort III* Performance Measurement Report.

## SCORING SF-36<sup>®</sup> PHYSICAL AND MENTAL HEALTH SUMMARY MEASURES

The eight scales and two summary measures are estimated using the scoring algorithms described by the developers of the SF-36<sup>®</sup> Health Survey.<sup>10</sup> Briefly, these norm-based algorithms yield favorably scored (i.e., higher is better) measures that have a mean of 50 and a standard deviation of 10 for the general US population. For each scale, a score was calculated if at least 50% of the items in the scale were completed.<sup>10</sup> For the PCS, a very high score indicates no physical limitations, no disabilities or decline in well being, high energy level, and a rating of health as “excellent.” For the MCS, a very high score indicates frequent positive affect, absence of psychological distress, and no limitations in usual social and role activities due to emotional problems.

Given that the *Cohort I Baseline* survey was fielded in 1998, the means and standard deviations used in scoring both the individual scales and summary measures (PCS and MCS) contained in the *Cohort III* Performance Measurement Data File were based on the 1998 National Survey of Functional Health Status. In order to allow for interpretation of PCS and MCS scores across all of the cohorts of data, the weights (i.e., component scoring coefficients) used in aggregating the eight scales to score the PCS and MCS measures are the original standardized weights recommended by the developers.<sup>11</sup> Although the norm-based scoring algorithms have a mean of 50 and a standard deviation of 10 for the general US population, it is important to note that the 1998 general population elderly norms reflect a PCS mean score of 42.6 and an MCS mean score of 52.0.

Please note that for the HOS *Cohorts I, II, and III Baseline* Data Files, the means and standard deviations used in scoring the SF-36<sup>®</sup> summary measures came from the 1990 National Survey of Functional Health Status and utilized the “half-scale” approach for imputing scale scores for those with missing data. For the *Cohorts I and II* Performance Measurement and *Cohort IV Baseline* Data Files, however, the means and standard deviations used in scoring the SF-36<sup>®</sup> summary measures came from the 1998 National Survey of Functional Health Status and utilized the missing data

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<sup>9</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.

<sup>10</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, 2001.

<sup>11</sup> Ware JE, Snow KK, Kosinski M, Grandek B. *SF-36<sup>®</sup> Health Survey Manual and Interpretation Guide*. Boston, MA: The Health Institute, 1993.

estimation (MDE) scoring utility, which imputed scores for those with missing data. For the *Cohort III* Performance Measurement and *Cohort V Baseline* Data Files, the means and standard deviations used in scoring the SF-36<sup>®</sup> scale and summary measures came from the 1998 National Survey of Functional Health Status and utilized the “half-scale” approach for imputing scale scores for those with missing data. Due to variations in the means and standard deviations used to score the SF-36<sup>®</sup> items, as well as in the imputation methodologies, **caution should be exercised when comparing scale scores and summary measures from the *Cohort III* Performance Measurement Data File to other HOS data files.**

## CASE MIX ADJUSTMENT

The goal of the performance measurement analysis is to compare physical and mental health outcomes in M+COs in terms of percentages of beneficiaries who were better, the same, or worse than expected at the two-year follow up. The analysis consists of the classification of actual outcomes for each beneficiary, the calculation of expected outcomes for each beneficiary, the calculation of plan level results, and tests of significance of plan level differences.<sup>12</sup>

There were six main categories of actual outcomes used in the analysis of the *Cohort III* Performance Measurement Data: (1) alive and PCS better; (2) alive and PCS same; (3) dead or PCS worse; (4) MCS better; (5) MCS same; and (6) MCS worse. Each beneficiary is classified into one of the three Physical Health categories and one of the three Mental Health categories.

In calculating expected outcomes, separate case mix models were warranted for death (which required extensive case mix control), and for PCS and MCS (which did not require much case mix control). The development and testing of these models was the subject of extensive analysis, which is described in more detail in Appendix 1 of HEDIS<sup>®</sup> 2003, Volume 6. A series of eight different death models, three different PCS models, and three different MCS models were used, since all beneficiaries did not have data for all of the independent variables that could be used to calculate an expected score. In other words, each expected outcome for a beneficiary was derived from the best fit model, which was based on those variables for which the beneficiary had data. For example, if a beneficiary had all of the required independent variables for Model A (the model containing the highest number of independent variables), then their expected score was calculated using that model. If not, then Model B (the model containing the second highest number of independent variables) was used if all of the required independent variables for this model were available, and so on. One model was used for each beneficiary, and there were no predictions made with missing data. Details about the variables included in each model are provided in Tables 1 and 2 on pages 10 and 11, respectively.

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<sup>12</sup> National Committee for Quality Assurance. *HEDIS<sup>®</sup> 2002, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2002.

The difference between actual and expected outcomes was used to determine plan level results. An overall F test was used to test whether plans differed significantly on the outcome measures. If the overall F test was significant, then a *t* statistic was used to express the significance of each plan difference from the overall national results.<sup>13</sup> For further information, please refer to the *Cohort III* Performance Measurement Report.

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<sup>13</sup> National Committee for Quality Assurance. *HEDIS® 2002, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2002.

**TABLE 1**  
**COVARIATES USED IN ESTIMATION OF EXPECTED MORTALITY**

| DEATH MODEL COVARIATES  | DEATH MODEL |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|
|   | A           | B | C | D | E | F | G | H |
| <b><i>Demographic and Socioeconomic Variables</i></b>   |             |   |   |   |   |   |   |   |
| Age (linear), Age 75+, Age 85+  | ✓           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Gender  | ✓           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Age and Gender interaction  | ✓           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HOS Race/Ethnicity (Black/African-American, Hispanic, Asian/Pacific Islander)   | ✓           | ✓ | ✓ | ✓ |   |   |   |   |
| CMS Race/Ethnicity (Black/African-American, Hispanic, Asian/Pacific Islander)   |             |   |   |   | ✓ | ✓ | ✓ | ✓ |
| On Medicaid or not on Medicaid  | ✓           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Home owner or non-home owner  | ✓           | ✓ | ✓ | ✓ |   |   |   |   |
| High school graduate or not high school graduate  | ✓           | ✓ | ✓ | ✓ |   |   |   |   |
| Married or not married (single, divorced, widowed, separated)   | ✓           | ✓ | ✓ | ✓ |   |   |   |   |
| Annual household income less than \$20,000 or annual household income of \$20,000 or greater  | ✓           |   | ✓ |   |   |   |   |   |
| <b><i>Chronic Conditions</i></b>  |             |   |   |   |   |   |   |   |
| Presence or absence of each of 13 chronic conditions: hypertension, myocardial infarction, angina/coronary artery disease, congestive heart failure, other heart conditions, stroke, pulmonary disease, gastrointestinal disorders, arthritis of hip or knee, arthritis of hand or wrist, sciatica, diabetes, cancer other than skin cancer   | ✓           | ✓ |   |   |   |   |   |   |
| Treatment or non-treatment for 4 cancer types: colon/rectal, lung, breast, prostate   | ✓           | ✓ |   |   |   |   |   |   |
| Mean number of conditions in 4 groups with varying relations to death:<br>1. Strong relationship (congestive heart failure, any cancer, colon/rectal cancer, lung cancer)<br>2. Moderate relationship (pulmonary disease, diabetes, stroke, myocardial infarction)<br>3. Weak relationship (breast cancer, hypertension, angina/coronary artery disease, other heart)<br>4. Negative relationship (gastrointestinal disorders, arthritis [both types], sciatica, prostate cancer) |             |   | ✓ | ✓ | ✓ | ✓ |   |   |
| <b><i>Baseline Functional Status</i></b>  |             |   |   |   |   |   |   |   |
| SF-36 <sup>®</sup> Physical Functioning/Activities of Daily Living Index  | ✓           | ✓ | ✓ | ✓ | ✓ |   |   |   |
| SF-36 <sup>®</sup> General Health scale   | ✓           | ✓ | ✓ | ✓ | ✓ |   |   |   |
| SF-36 <sup>®</sup> Social Functioning scale   | ✓           | ✓ | ✓ | ✓ | ✓ |   |   |   |
| One-item measure of General Health compared to others   | ✓           | ✓ | ✓ | ✓ | ✓ |   |   |   |
| Baseline PCS and MCS  |             |   |   |   |   | ✓ | ✓ |   |
| <b><i>Survey Administration</i></b>   |             |   |   |   |   |   |   |   |
| Telephone or mail survey  | ✓           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |

**TABLE 2**  
**COVARIATES USED IN ESTIMATION OF CHANGE IN PCS AND MCS SCORES**

| PCS/MCS MODEL COVARIATES   | PCS MODEL |   |   | MCS MODEL |   |   |
|--|-----------|---|---|-----------|---|---|
|  | A         | B | C | A         | B | C |
| Age (linear), Age 75+, Age 85+   | ✓         | ✓ | ✓ | ✓         | ✓ | ✓ |
| Gender   | ✓         | ✓ | ✓ | ✓         | ✓ | ✓ |
| Age and Gender interaction   | ✓         | ✓ | ✓ | ✓         | ✓ | ✓ |
| HOS Race/Ethnicity (Black/African-American, Hispanic, Asian/Pacific Islander)                | ✓         | ✓ |   | ✓         | ✓ |   |
| CMS Race/Ethnicity (Black/African-American, Hispanic, Asian/Pacific Islander)                |           |   |   |           |   | ✓ |
| On Medicaid or not on Medicaid   | ✓         | ✓ | ✓ | ✓         | ✓ | ✓ |
| Home owner or non-home owner   | ✓         | ✓ |   | ✓         | ✓ |   |
| High school graduate or not high school graduate   | ✓         | ✓ |   | ✓         | ✓ |   |
| Married or not married (single, divorced, widowed, separated)                                | ✓         | ✓ |   | ✓         | ✓ |   |
| Annual household income less than \$20,000 or annual household income of \$20,000 or greater | ✓         |   |   | ✓         |   |   |

# Performance Measurement Electronic Data File Characteristics

Each QIO level *Cohort III* Performance Measurement Electronic Data File was derived from the *Cohort III Performance Measurement analytic sample* of 122,317. As discussed in the Methodology, the *Cohort III* Performance Measurement Results are based on the analytic sample of 122,317 and not the entire population sampled at baseline and follow up. Disabled beneficiaries under the age of 65 were not included in the analytic sample, and therefore are not part of the *Cohort III* Performance Measurement Electronic Data File. Data for disabled beneficiaries can be provided upon request. If you would like to request these additional data, please contact the HOS Team at Health Services Advisory Group (HSAG) via the Medicare HOS Information and Technical Support Telephone Line (1-888-880-0077) or the HOS e-mail address ([hos@azqio.sdps.org](mailto:hos@azqio.sdps.org)).

Beneficiaries in the *Cohort III Performance Measurement analytic sample* were classified into a number of categories at the time of performance measurement. These categories include: respondents; non-respondents; invalid members at follow up<sup>14</sup>; those who died within two years of the baseline survey; and those who voluntarily disenrolled from their M+CO prior to follow up. These beneficiaries were included in the QIO level *Cohort III* Performance Measurement Electronic Data File.

*Please note, in accordance with CMS regulations, data on those beneficiaries that disenrolled from their M+CO prior to the time of follow up were not included in the M+CO level Cohort III Performance Measurement Electronic Data File distributed to participating plans, although these beneficiaries were included in the calculation of plan level performance measurement results.*

There are a total of 278 variables in the *Cohort III* Performance Measurement Electronic Data File. A detailed list of these variables including valid values is included in Appendix B. The following is an overview of the variables included in the *Cohort III* Performance Measurement Electronic Data File.

## PLAN LEVEL VARIABLES (VARIABLES 1-12)

Data from this section are taken from the header record of the baseline and follow up data files, as well as information obtained from the April 2003 CMS Monthly Report of Managed Care Health Plans (<http://cms.hhs.gov/healthplans/statistics/monthly/>). These variables include *Plan Contract Number* (#1), which is the unit of analysis for the *Cohort III* Performance Measurement Report. Another important variable in this group is *Plan State* (#9), which is the two letter state abbreviation as listed in the April 2003 CMS Monthly Report of Managed Care Health Plans. This was the state level unit of analysis for the *Cohort III* Performance Measurement Report.

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<sup>14</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.

## **SURVEY LEVEL VARIABLES (VARIABLES 13-209)**

This section contains a randomly assigned, anonymous beneficiary identification number (#13) and survey information from the 57 questions comprising the HOS instrument for both baseline and follow up (excluding the name of the person responding to the survey, Q56, which is included in the beneficiary level variables section). Other than the anonymous beneficiary ID, the information presented in this section represents each beneficiary's actual answers to the specific questions. These data include beneficiary responses to questions pertaining to the SF-36<sup>®</sup>, health status indicators, chronic medical conditions, depression, ADLs, demographics, and who completed the survey (Q55). This section also includes the valid values associated with each question. The SF-36<sup>®</sup> (questions one and three through eleven in the HOS instrument) is used to obtain physical and mental health summary measures. The beneficiary level data from both baseline and follow up can potentially be used by QIOs and M+COs to perform quality improvement initiatives.

## **SURVEY ADMINISTRATION VARIABLES (VARIABLES 210-220)**

The variables that are presented in this section include the mode of survey administration, which indicates whether or not the beneficiary completed a baseline or follow up survey by mail or telephone (#210-211), the date the survey was completed (#212-215), and the language in which the survey was completed (#216-217). The survey date variables C3ESVDT2 and R3ESVDT2 incorporated imputed values for missing survey dates by replacing the missing values with the mean survey date by vendor and mode of administration. The variable C3ESVDT2, in combination with date of birth, was utilized to derive age. The section also includes the survey vendor at baseline and follow up (#218-219). The proxy status variable (#220), which was assigned to members at follow up, identifies whether a member or a proxy completed the survey at baseline and at follow up. In addition, when a proxy is identified for both surveys, this variable provides information about whether the proxy is the same or a different proxy when sufficient information is available.

## **SF-36<sup>®</sup> SCALE SCORES AND SUMMARY MEASURES (VARIABLES 221-240)**

The variables that are presented in this section include the unadjusted SF-36<sup>®</sup> scale scores and summary measures at baseline (#221-230) and follow up (#231-240). As described previously, the means and standard deviations used in scoring the SF-36<sup>®</sup> scales scores and summary measures came from the 1998 National Survey of Functional Health Status and utilized the "half-scale" approach for imputing scale scores for those with missing data.

## **BENEFICIARY LEVEL VARIABLES (VARIABLES 241-278)**

Data from this section are taken primarily from the member level record of the baseline and follow up data files. These data were obtained from the CMS Medicare Enrollment Database (EDB) at the time the sample files were created. The *Health Insurance Claim (HIC) number* (#241), which is a unique identifier used to identify each beneficiary, is included in this section. The HIC number from

the member level record at baseline is used except for the 941 beneficiaries for which the HIC number had changed at follow up. For these beneficiaries, the HIC number at follow up is utilized. Beneficiary addresses (mailing address, county, state, and zip code) from both baseline and follow up are included in this section. Beneficiary race, gender, date of birth, and reason for entitlement from both baseline and follow up are also included in this section. The *Beneficiary's Baseline Date of Birth* (#259) was utilized to derive the *Beneficiary's Age at Baseline* (#276). This age variable was used in the HOS performance measurement analysis. The randomly assigned unique beneficiary number (#277) matches the unique number that was assigned to the beneficiaries in the M+CO Electronic Data Files. This number will be blank for those beneficiaries who had voluntarily disenrolled from their plans prior to the follow up sampling. Please note that beneficiaries who disenrolled from the plan subsequent to completing the baseline survey are not included in the M+CO file, however, they were included in the calculation of the performance measurement results.

## CAUTIONARY NOTES

- ◆ The HOS Questionnaire contains multiple skip patterns. Caution should be exercised when examining selected questions that involve skip pattern responses. Please refer to Appendix B for additional information.
- ◆ Some demographic variables (birth year, race, and gender) were obtained from the CMS EDB at the time of sampling and also from the respondent provided survey data. Inconsistencies between these two data sources have been identified. Caution should be exercised when examining these variables.
- ◆ For the purpose of calculating performance measurement results, beneficiaries were considered dead if they died within two years of completing the baseline survey and did not complete a follow up survey. The *Performance Measurement Sample Distribution Indicator* (#278) can be used to identify the status of each beneficiary in this file.

For further details on the structure of these data, please refer to Appendix B. The Medicare HOS Information and Technical Support Telephone Line (1-888-880-0077), as well as the HOS e-mail address ([hos@azqio.sdps.org](mailto:hos@azqio.sdps.org)), are available to provide technical assistance. Additionally, the Medicare HOS website provides general information on the project and responses to Frequently Asked Questions (<http://www.cms.hhs.gov/surveys/hos>).

# Appendix A

## Quality Assurance of the Data

### DATA RECEIPT

*Cohort III Baseline* and *Cohort III Follow Up* data were transmitted to HSAG from NCQA. The data were transmitted on CD-ROMs containing individual ASCII flat files for each participating M+CO. The ASCII files contained plan, beneficiary, and survey information as specified in the HOS Manual.<sup>15, 16</sup>

### DATA CLEANING AND EDITING

After all of the individual files were imported using SAS<sup>®17</sup> software and saved as unique SAS<sup>®</sup> data sets, they were appended to form a single HOS data file. To verify the presence of unique beneficiaries, the file was examined for duplicate Health Insurance Claim (HIC) numbers. All variables in the data file were examined for consistency. All dates contained within the data file were verified to correspond to the appropriate range. Frequency distributions of all categorical variables as well as cross tabulations by vendor were performed to identify both out of range values and data shifts in value assignment. The cross tabulations were performed using the entire HOS data file and also specified subsets of the data file. In addition to the cross tabulations of categorical variables, the survey variables (such as survey disposition, round number, and survey language) were assessed for accuracy and consistency. Finally, response consistency checks were performed to validate the integrity of the data. SAS<sup>®</sup> code was utilized to perform automated reviews of these procedures, resulting in increased accuracy and efficiency. When revised data submissions were received by HSAG, an item level comparison between the current/revised and prior vendor submissions was performed. This process provided an important method of validation of the vendor submissions over time when multiple submissions were received.

An additional consistency check was performed which examined skip pattern violations. In many records, beneficiaries failed to correctly follow the skip patterns contained within the survey; however, no changes were made to any of the responses. **Caution should be exercised when examining data that utilize a skip pattern.**

Upon completion of the HOS data editing and cleaning process, the final data set was produced. This final data set served as the source for variables used in the performance measurement analysis and report.

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<sup>15</sup> National Committee for Quality Assurance. *HEDIS<sup>®</sup> 2000, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2000.

<sup>16</sup> National Committee for Quality Assurance. *HEDIS<sup>®</sup> 2002, Volume 6: Specifications for the Medicare Health Outcomes Survey*. Washington DC: NCQA Publication, 2002.

<sup>17</sup> SAS<sup>®</sup> is a registered trademark of the SAS Institute Inc., Cary, NC.

For further information on the quality assurance of the data, please refer to the *Cohort III* Performance Measurement Report. The Medicare HOS Information and Technical Support Telephone Line (1-888-880-0077), as well as the HOS e-mail address ([hos@azqio.sdps.org](mailto:hos@azqio.sdps.org)), are available to provide technical assistance. Additionally, the Medicare HOS website provides general information on the project and responses to Frequently Asked Questions (<http://www.cms.hhs.gov/surveys/hos>).

# Appendix B

## Performance Measurement Electronic Data File Specifications

The following table describes the file layout by variable position for the *Cohort III* Performance Measurement Electronic Data File. The file is a SAS<sup>®</sup> data file and was generated using SAS<sup>®</sup> Version 8.02. There are a total of 278 variables in the data file.

In addition to the variable number, the variable name/description, type, length, and additional information (including valid values) are provided. For the survey level items, the exact text of each question can be obtained by referring to the Medicare HOS Manuals.

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|--|----------|------------|--|
| 1     | <i>P3CNTRNM</i><br>Plan Contract Number at the time of performance measurement reporting | Char     | 5          | Unique contract number at the time of performance measurement reporting (2003). This was the plan level unit of analysis for the <i>Cohort III</i> Performance Measurement Report.           |
| 2     | <i>C3CNTRNM</i><br>Plan Contract Number at Baseline                                      | Char     | 5          | Unique contract number at the time of Baseline sampling (2000)   |
| 3     | <i>R3CNTRNM</i><br>Plan Contract Number at Follow Up                                     | Char     | 5          | Unique contract number at the time of Follow Up sampling (2002)  |
| 4     | <i>C3MARKET</i><br>Plan Market Area Code at Baseline                                     | Num      | 3          | CMS market area code at the time of Baseline sampling (2000)   |
| 5     | <i>R3MARKET</i><br>Plan Market Area Indicator at Follow Up                               | Char     | 1          | CMS market area indicator at the time of Follow Up sampling (2002)   |
| 6     | <i>C3MANAME</i><br>Plan Market Area Name at Baseline                                     | Char     | 50         | CMS market area name at the time of Baseline sampling (2000)   |
| 7     | <i>R3MANAME</i><br>Plan Market Area Name at Follow Up                                    | Char     | 50         | CMS market area name at the time of Follow Up sampling (2002)  |
| 8     | <i>P3PLANNM</i><br>Plan Name   | Char     | 50         | Plan name as listed in the April 2003 CMS Monthly Report of Managed Care Health Plans  |
| 9     | <i>P3PLANST</i><br>Plan State  | Char     | 2          | Two letter state abbreviation as listed in the April 2003 CMS Monthly Report of Managed Care Health Plans. This was the state level unit of analysis for the Performance Measurement Report. |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 10    | <i>P3PLMODL</i><br>Plan Model   | Char     | 5          | Plan model as listed in the April 2003 CMS Monthly Report of Managed Care Health Plans  |
| 11    | <i>P3PLTYPE</i><br>Plan Type  | Char     | 3          | Plan type as listed in the April 2003 CMS Monthly Report of Managed Care Health Plans   |
| 12    | <i>P3PLTXST</i><br>Plan Tax Status  | Char     | 4          | Plan tax status as listed in the April 2003 CMS Monthly Report of Managed Care Health Plans   |
| 13    | <i>C3PATID</i><br>Anonymous Patient ID                                    | Num      | 8          | Unique number assigned to each beneficiary in the Baseline sample (1 to 298,883)  |
| 14    | <i>C3GENHTH</i><br>Baseline Survey:<br>General Health Question (Q1)       | Num      | 3          | Beneficiary's response to Q1 from the <i>Cohort III Baseline</i> survey:<br><i>In general, would you say your health is:</i><br>1 = Excellent<br>2 = Very good<br>3 = Good<br>4 = Fair<br>5 = Poor  |
| 15    | <i>C3HTRN</i><br>Baseline Survey:<br>Health Transition Question (Q2)      | Num      | 3          | Beneficiary's response to Q2 from the <i>Cohort III Baseline</i> survey:<br><i>Compared to one year ago, how would you rate your health in general now?</i><br>1 = Much better now than one year ago<br>2 = Somewhat better now than one year ago<br>3 = About the same as one year ago<br>4 = Somewhat worse now than one year ago<br>5 = Much worse now than one year ago |
| 16    | <i>C3VIGACT</i><br>Baseline Survey:<br>Vigorous Activities Question (Q3a) | Num      | 3          | Beneficiary's response to Q3a from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Vigorous activities</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all   |
| 17    | <i>C3MODACT</i><br>Baseline Survey:<br>Moderate Activities Question (Q3b) | Num      | 3          | Beneficiary's response to Q3b from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Moderate activities</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all   |

| <b>VAR #</b> | <b>VARIABLE NAME / DESCRIPTION</b>   | <b>VAR TYPE</b> | <b>VAR LENGTH</b> | <b>ADDITIONAL INFORMATION AND VALID VALUES</b>   |
|--------------|--|-----------------|-------------------|--|
| 18           | <i>C3LIFT</i><br>Baseline Survey:<br>Lifting Groceries Question (Q3c)                    | Num             | 3                 | Beneficiary's response to Q3c from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Lifting or carrying groceries</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all      |
| 19           | <i>C3CLMBSV</i><br>Baseline Survey:<br>Climbing Several Flights of Stairs Question (Q3d) | Num             | 3                 | Beneficiary's response to Q3d from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Climbing several flights of stairs</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all |
| 20           | <i>C3CLMBON</i><br>Baseline Survey:<br>Climbing One Flight of Stairs Question (Q3e)      | Num             | 3                 | Beneficiary's response to Q3e from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Climbing one flight of stairs</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all      |
| 21           | <i>C3BEND</i><br>Baseline Survey:<br>Bending, Kneeling, or Stooping Question (Q3f)       | Num             | 3                 | Beneficiary's response to Q3f from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Bending, kneeling, or stooping</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all     |
| 22           | <i>C3WLKMI</i><br>Baseline Survey:<br>Walking More than a Mile Question (Q3g)            | Num             | 3                 | Beneficiary's response to Q3g from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Walking more than a mile</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all           |
| 23           | <i>C3WLKBKS</i><br>Baseline Survey:<br>Walking Several Blocks Question (Q3h)             | Num             | 3                 | Beneficiary's response to Q3h from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Walking several blocks</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all             |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|--|----------|------------|--|
| 24    | C3WLK1BK<br>Baseline Survey:<br>Walking One Block Question (Q3i)                                 | Num      | 3          | Beneficiary's response to Q3i from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Walking one block</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all  |
| 25    | C3BATHDR<br>Baseline Survey:<br>Bathing and Dressing Question (Q3j)                              | Num      | 3          | Beneficiary's response to Q3j from the <i>Cohort III Baseline</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Bathing or dressing yourself</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all   |
| 26    | C3PCUTTM<br>Baseline Survey:<br>Physical Health Limiting Time Spent on Activities Question (Q4a) | Num      | 3          | Beneficiary's response to Q4a from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Cut down on the amount of time you spent on work or other activities</u><br>1 = Yes<br>2 = No |
| 27    | C3PACMPL<br>Baseline Survey:<br>Physical Health Limiting Amount Accomplished Question (Q4b)      | Num      | 3          | Beneficiary's response to Q4b from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Accomplished less than you would like</u><br>1 = Yes<br>2 = No                                |
| 28    | C3PLMTKW<br>Baseline Survey:<br>Physical Health Limiting the Kind of Activities Question (Q4c)   | Num      | 3          | Beneficiary's response to Q4c from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Were limited in the kind of work or other activities</u><br>1 = Yes<br>2 = No                 |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|--|----------|------------|--|
| 29    | <i>C3PDIFWK</i><br>Baseline Survey:<br>Physical Health Causing Difficulty Performing Activities Question (Q4d) | Num      | 3          | Beneficiary's response to Q4d from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Had difficulty performing the work or other activities</u><br>1 = Yes<br>2 = No                 |
| 30    | <i>C3ECUTTM</i><br>Baseline Survey:<br>Emotional Problems Limiting Time Spent on Activities Question (Q5a)     | Num      | 3          | Beneficiary's response to Q5a from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i><br><u>Cut down on the amount of time you spent on work or other activities</u><br>1 = Yes<br>2 = No |
| 31    | <i>C3EACMPL</i><br>Baseline Survey:<br>Emotional Problems Limiting Amount Accomplished Question (Q5b)          | Num      | 3          | Beneficiary's response to Q5b from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i><br><u>Accomplished less than you would like</u><br>1 = Yes<br>2 = No                                |
| 32    | <i>C3ENTCRF</i><br>Baseline Survey:<br>Emotional Problems Limiting Carefulness Question (Q5c)                  | Num      | 3          | Beneficiary's response to Q5c from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i><br><u>Didn't do work or other activities as carefully as usual</u><br>1 = Yes<br>2 = No             |
| 33    | <i>C3SOCLMT</i><br>Baseline Survey:<br>Extent Health Interfering with Social Activities Question (Q6)          | Num      | 3          | Beneficiary's response to Q6 from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities...?</i><br>1 = Not at all<br>2 = Slightly<br>3 = Moderately<br>4 = Quite a bit<br>5 = Extremely            |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 34    | <i>C3PNMAGT</i><br>Baseline Survey:<br>Bodily Pain Question (Q7)                | Num      | 3          | Beneficiary's response to Q7 from the <i>Cohort III Baseline</i> survey:<br><i>How much bodily pain have you had during the past 4 weeks?</i><br>1 = None<br>2 = Very mild<br>3 = Mild<br>4 = Moderate<br>5 = Severe<br>6 = Very severe   |
| 35    | <i>C3PNINTF</i><br>Baseline Survey:<br>Pain Interfering with Work Question (Q8) | Num      | 3          | Beneficiary's response to Q8 from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, how much did pain interfere with your normal work?</i><br>1 = Not at all<br>2 = A little bit<br>3 = Moderately<br>4 = Quite a bit<br>5 = Extremely  |
| 36    | <i>C3FULPEP</i><br>Baseline Survey:<br>Full of Pep Question (Q9a)               | Num      | 3          | Beneficiary's response to Q9a from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Did you feel full of pep?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time            |
| 37    | <i>C3NERVS</i><br>Baseline Survey:<br>Nervous Question (Q9b)                    | Num      | 3          | Beneficiary's response to Q9b from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you been a very nervous person?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|---|----------|------------|--|
| 38    | <i>C3DNDMPS</i><br>Baseline Survey:<br>Down in the Dumps Question (Q9c)   | Num      | 3          | Beneficiary's response to Q9c from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you felt so down in the dumps that nothing could cheer you up?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time |
| 39    | <i>C3PCEFUL</i><br>Baseline Survey:<br>Calm and Peaceful Question (Q9d)   | Num      | 3          | Beneficiary's response to Q9d from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you felt calm and peaceful?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                                    |
| 40    | <i>C3ENERGY</i><br>Baseline Survey:<br>Lots of Energy Question (Q9e)      | Num      | 3          | Beneficiary's response to Q9e from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Did you have a lot of energy?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                                       |
| 41    | <i>C3BLSAD</i><br>Baseline Survey:<br>Downhearted and Blue Question (Q9f) | Num      | 3          | Beneficiary's response to Q9f from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you felt downhearted and blue?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                                 |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|--|----------|------------|---|
| 42    | <i>C3WRNOUT</i><br>Baseline Survey:<br>Feeling Worn Out Question (Q9g)   | Num      | 3          | Beneficiary's response to Q9g from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Did you feel worn out?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                       |
| 43    | <i>C3HAPPY</i><br>Baseline Survey:<br>Happy Question (Q9h)   | Num      | 3          | Beneficiary's response to Q9h from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you been a happy person?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                |
| 44    | <i>C3TIRED</i><br>Baseline Survey:<br>Feeling Tired Question (Q9i)   | Num      | 3          | Beneficiary's response to Q9i from the <i>Cohort III Baseline</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Did you feel tired?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                          |
| 45    | <i>C3SCLACT</i><br>Baseline Survey:<br>Amount of Time Health Interfering with Social Activities Question (Q10) | Num      | 3          | Beneficiary's response to Q10 from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities?</i><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |

| VAR # | VARIABLE NAME / DESCRIPTION                                      | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|--|----------|------------|---|
| 46    | C3SCKESY<br>Baseline Survey:<br>Sick Easier Question (Q11a)      | Num      | 3          | Beneficiary's response to Q11a from the Cohort III Baseline survey:<br><i>How true or false is each of the following statements for you?</i><br><u>I seem to get sick a little easier than other people</u><br>1 = Definitely true<br>2 = Mostly true<br>3 = Don't know<br>4 = Mostly false<br>5 = Definitely false |
| 47    | C3ASHLTH<br>Baseline Survey:<br>As Healthy Question (Q11b)       | Num      | 3          | Beneficiary's response to Q11b from the Cohort III Baseline survey:<br><i>How true or false is each of the following statements for you?</i><br><u>I am as healthy as anybody I know</u><br>1 = Definitely true<br>2 = Mostly true<br>3 = Don't know<br>4 = Mostly false<br>5 = Definitely false                    |
| 48    | C3HTHWSE<br>Baseline Survey:<br>Future Health Question (Q11c)    | Num      | 3          | Beneficiary's response to Q11c from the Cohort III Baseline survey:<br><i>How true or false is each of the following statements for you?</i><br><u>I expect my health to get worse</u><br>1 = Definitely true<br>2 = Mostly true<br>3 = Don't know<br>4 = Mostly false<br>5 = Definitely false                      |
| 49    | C3HTHEXT<br>Baseline Survey:<br>Excellent Health Question (Q11d) | Num      | 3          | Beneficiary's response to Q11d from the Cohort III Baseline survey:<br><i>How true or false is each of the following statements for you?</i><br><u>My health is excellent</u><br>1 = Definitely true<br>2 = Mostly true<br>3 = Don't know<br>4 = Mostly false<br>5 = Definitely false                               |
| 50    | C3DIFBTH<br>Baseline Survey:<br>Bathing Question (Q12a)          | Num      | 3          | Beneficiary's response to Q12a from the Cohort III Baseline survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Bathing</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty        |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 51    | <i>C3DIFDRS</i><br>Baseline Survey:<br>Dressing Question (Q12b)                 | Num      | 3          | Beneficiary's response to Q12b from the <i>Cohort III Baseline</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Dressing</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty                    |
| 52    | <i>C3DIFEAT</i><br>Baseline Survey:<br>Eating Question (Q12c)                   | Num      | 3          | Beneficiary's response to Q12c from the <i>Cohort III Baseline</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Eating</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty                      |
| 53    | <i>C3DIFCHR</i><br>Baseline Survey:<br>Getting In/Out of Chairs Question (Q12d) | Num      | 3          | Beneficiary's response to Q12d from the <i>Cohort III Baseline</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Getting in or out of chairs</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty |
| 54    | <i>C3DIFWLK</i><br>Baseline Survey:<br>Walking Question (Q12e)                  | Num      | 3          | Beneficiary's response to Q12e from the <i>Cohort III Baseline</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Walking</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty                     |
| 55    | <i>C3DIFTOL</i><br>Baseline Survey:<br>Using the Toilet Question (Q12f)         | Num      | 3          | Beneficiary's response to Q12f from the <i>Cohort III Baseline</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Using the toilet</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty            |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|--|----------|------------|--|
| 56    | <i>C3CPNEXR</i><br>Baseline Survey:<br>Chest Pain/Pressure on Exertion Question (Q13a) | Num      | 3          | Beneficiary's response to Q13a from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, how often have you had any of the following problems</i><br><u>Chest pain or pressure when you exercise</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time   |
| 57    | <i>C3CPNRST</i><br>Baseline Survey:<br>Chest Pain/Pressure at Rest Question (Q13b)     | Num      | 3          | Beneficiary's response to Q13b from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, how often have you had any of the following problems</i><br><u>Chest pain or pressure when resting</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time        |
| 58    | <i>C3SOBFLT</i><br>Baseline Survey:<br>Orthopnea Question (Q14a)                       | Num      | 3          | Beneficiary's response to Q14a from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i><br><u>When lying down flat</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time    |
| 59    | <i>C3SOBSIT</i><br>Baseline Survey:<br>Dyspnea while Sitting/Resting Question (Q14b)   | Num      | 3          | Beneficiary's response to Q14b from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i><br><u>When sitting or resting</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 60    | <i>C3SOBWLK</i><br>Baseline Survey:<br>Dyspnea when Walking Less than One Block Question (Q14c)   | Num      | 3          | Beneficiary's response to Q14c from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i><br><u>When walking less than one block</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time                           |
| 61    | <i>C3SOBSTR</i><br>Baseline Survey:<br>Dyspnea when Climbing One Flight of Stairs Question (Q14d) | Num      | 3          | Beneficiary's response to Q14d from the <i>Cohort III Baseline</i> survey:<br><i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i><br><u>When climbing one flight of stairs</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time                         |
| 62    | <i>C3NMBFET</i><br>Baseline Survey:<br>Numbness in Feet Question (Q15a)                           | Num      | 3          | Beneficiary's response to Q15a from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Numbness or loss of feeling in your feet</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time  |
| 63    | <i>C3ANKSWL</i><br>Baseline Survey:<br>Ankle/Leg Edema Question (Q15b)                            | Num      | 3          | Beneficiary's response to Q15b from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Ankles/legs that swell as the day goes on</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |

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|-------|--|----------|------------|--|
| 64    | <i>C3TINGFT</i><br>Baseline Survey:<br>Foot Tingling/Burning Question (Q15c)                   | Num      | 3          | Beneficiary's response to Q15c from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Tingling or burning in your feet especially at night</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |
| 65    | <i>C3DECSNS</i><br>Baseline Survey:<br>Decreased Temperature Sensation in Feet Question (Q15d) | Num      | 3          | Beneficiary's response to Q15d from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Decreased ability to feel hot or cold with your feet</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |
| 66    | <i>C3DECHEL</i><br>Baseline Survey:<br>Sores/Wounds on Feet Question (Q15e)                    | Num      | 3          | Beneficiary's response to Q15e from the <i>Cohort III Baseline</i> survey:<br><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><br><u>Sores or wounds on your feet that did not heal</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time       |
| 67    | <i>C3PARLYS</i><br>Baseline Survey:<br>Hemiparalysis/Weakness Question (Q16a)                  | Num      | 3          | Beneficiary's response to Q16a from the <i>Cohort III Baseline</i> survey:<br><i>Have you ever had paralysis or weakness on one side of the body?</i><br>1 = Yes, I have it<br>2 = Yes, but it went away<br>3 = No   |
| 68    | <i>C3LSTTLK</i><br>Baseline Survey:<br>Lost Ability to Talk Question (Q16b)                    | Num      | 3          | Beneficiary's response to Q16b from the <i>Cohort III Baseline</i> survey:<br><i>Have you ever lost the ability to talk?</i><br>1 = Yes, I have lost it<br>2 = Yes, but it returned<br>3 = No  |

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|-------|--|----------|------------|--|
| 69    | <i>C3RDNEW</i><br>Baseline Survey:<br>Vision Question (Q17)                            | Num      | 3          | Beneficiary's response to Q17 from the <i>Cohort III Baseline</i> survey:<br><i>Can you see well enough to read newspaper print?</i><br>1 = Yes<br>2 = No  |
| 70    | <i>C3HRMOST</i><br>Baseline Survey:<br>Hearing Question (Q18)                          | Num      | 3          | Beneficiary's response to Q18 from the <i>Cohort III Baseline</i> survey:<br><i>Can you hear most of the things people say?</i><br>1 = Yes<br>2 = No   |
| 71    | <i>C3ACDING</i><br>Baseline Survey:<br>Acid Indigestion Question (Q19)                 | Num      | 3          | Beneficiary's response to Q19 from the <i>Cohort III Baseline</i> survey:<br><i>Do you now have acid indigestion or heartburn?</i><br>1 = Yes<br>2 = No  |
| 72    | <i>C3CTRURN</i><br>Baseline Survey:<br>Difficulty Controlling Urination Question (Q20) | Num      | 3          | Beneficiary's response to Q20 from the <i>Cohort III Baseline</i> survey:<br><i>Do you have difficulty controlling urination?</i><br>1 = Yes<br>2 = No   |
| 73    | <i>C3HIGHBP</i><br>Baseline Survey:<br>Hypertension Question (Q21)                     | Num      | 3          | Beneficiary's response to Q21 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had: <u>Hypertension or high blood pressure</u></i><br>1 = Yes<br>2 = No     |
| 74    | <i>C3ANGCAD</i><br>Baseline Survey:<br>Angina/Coronary Artery Disease Question (Q22)   | Num      | 3          | Beneficiary's response to Q22 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had: <u>Angina or coronary artery disease</u></i><br>1 = Yes<br>2 = No       |
| 75    | <i>C3CHF</i><br>Baseline Survey:<br>Congestive Heart Failure Question (Q23)            | Num      | 3          | Beneficiary's response to Q23 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had: <u>Congestive heart failure</u></i><br>1 = Yes<br>2 = No                |
| 76    | <i>C3AMI</i><br>Baseline Survey:<br>Myocardial Infarction Question (Q24)               | Num      | 3          | Beneficiary's response to Q24 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had: <u>A myocardial infarction or heart attack</u></i><br>1 = Yes<br>2 = No |

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|-------|--|----------|------------|--|
| 77    | <i>C3OTHHRT</i><br>Baseline Survey:<br>Other Heart Conditions Question (Q25)     | Num      | 3          | Beneficiary's response to Q25 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Other heart conditions...</u><br>1 = Yes<br>2 = No  |
| 78    | <i>C3STROKE</i><br>Baseline Survey:<br>Stroke Question (Q26)                     | Num      | 3          | Beneficiary's response to Q26 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Stroke</u><br>1 = Yes<br>2 = No   |
| 79    | <i>C3COPD_E</i><br>Baseline Survey:<br>COPD Question (Q27)                       | Num      | 3          | Beneficiary's response to Q27 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Emphysema, asthma, or COPD</u><br>1 = Yes<br>2 = No   |
| 80    | <i>C3GI_ETC</i><br>Baseline Survey:<br>Inflammatory Bowel Disease Question (Q28) | Num      | 3          | Beneficiary's response to Q28 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Crohn's disease, ulcerative colitis, or inflammatory bowel disease</u><br>1 = Yes<br>2 = No |
| 81    | <i>C3ATHHIP</i><br>Baseline Survey:<br>Arthritis of Hip/Knee Question (Q29)      | Num      | 3          | Beneficiary's response to Q29 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Arthritis of the hip or knee</u><br>1 = Yes<br>2 = No                                       |
| 82    | <i>C3ATHHAN</i><br>Baseline Survey:<br>Arthritis of Hand/Wrist Question (Q30)    | Num      | 3          | Beneficiary's response to Q30 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Arthritis of the hand or wrist</u><br>1 = Yes<br>2 = No                                     |
| 83    | <i>C3SCIATC</i><br>Baseline Survey:<br>Sciatica Question (Q31)                   | Num      | 3          | Beneficiary's response to Q31 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Sciatica</u><br>1 = Yes<br>2 = No   |
| 84    | <i>C3DIABET</i><br>Baseline Survey:<br>Diabetes Question (Q32)                   | Num      | 3          | Beneficiary's response to Q32 from the <i>Cohort III Baseline</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Diabetes, high blood sugar, or sugar in the urine</u><br>1 = Yes<br>2 = No                  |

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|-------|---|----------|------------|--|
| 85    | C3ANYCAN<br>Baseline Survey:<br>Any Cancer Question (Q33)                   | Num      | 3          | Beneficiary's response to Q33 from the Cohort III Baseline survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Any cancer (other than skin cancer)</u><br>1 = Yes<br>2 = No   |
| 86    | C3ARTHPN<br>Baseline Survey:<br>Arthritis Pain Question (Q34)               | Num      | 3          | Beneficiary's response to Q34 from the Cohort III Baseline survey:<br><i>If you answered "yes" to questions 29 or 30 above (that you have arthritis), During the past 4 weeks, how would you describe the arthritis pain you usually had?</i><br>1 = None<br>2 = Very mild<br>3 = Mild<br>4 = Moderate<br>5 = Severe |
| 87    | C3COLNCA<br>Baseline Survey:<br>Colorectal Cancer Treatment Question (Q35a) | Num      | 3          | Beneficiary's response to Q35a from the Cohort III Baseline survey:<br><i>If you answered "yes" to question 33 above (that you had cancer), Are you currently under treatment for:</i><br><u>Colon or rectal cancer</u><br>1 = Yes<br>2 = No   |
| 88    | C3LUNGCA<br>Baseline Survey:<br>Lung Cancer Treatment Question (Q35b)       | Num      | 3          | Beneficiary's response to Q35b from the Cohort III Baseline survey:<br><i>If you answered "yes" to question 33 above (that you had cancer), Are you currently under treatment for:</i><br><u>Lung cancer</u><br>1 = Yes<br>2 = No  |
| 89    | C3BRSTCA<br>Baseline Survey:<br>Breast Cancer Treatment Question (Q35c)     | Num      | 3          | Beneficiary's response to Q35c from the Cohort III Baseline survey:<br><i>If you answered "yes" to question 33 above (that you had cancer), Are you currently under treatment for:</i><br><u>Breast cancer</u><br>1 = Yes<br>2 = No  |
| 90    | C3PROSCA<br>Baseline Survey:<br>Prostate Cancer Treatment Question (Q35d)   | Num      | 3          | Beneficiary's response to Q35d from the Cohort III Baseline survey:<br><i>If you answered "yes" to question 33 above (that you had cancer), Are you currently under treatment for:</i><br><u>Prostate cancer</u><br>1 = Yes<br>2 = No  |

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|-------|---|----------|------------|--|
| 91    | <i>C3BACKPN</i><br>Baseline Survey:<br>Low Back Pain Question (Q36)                     | Num      | 3          | Beneficiary's response to Q36 from the <i>Cohort III Baseline</i> survey:<br><i>In the past 4 weeks, how often has low back pain interfered with your usual daily activities?</i><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time                           |
| 92    | <i>C3NUMBLG</i><br>Baseline Survey:<br>Pain, Numbness, Tingling Down Leg Question (Q37) | Num      | 3          | Beneficiary's response to Q37 from the <i>Cohort III Baseline</i> survey:<br><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><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |
| 93    | <i>C3FELTSD</i><br>Baseline Survey:<br>Two Weeks of Depression Question (Q38)           | Num      | 3          | Beneficiary's response to Q38 from the <i>Cohort III Baseline</i> survey:<br><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><br>1 = Yes<br>2 = No   |
| 94    | <i>C3DEPMCH</i><br>Baseline Survey:<br>Depression Much of the Time Question (Q39)       | Num      | 3          | Beneficiary's response to Q39 from the <i>Cohort III Baseline</i> survey:<br><i>In the past year, have you felt depressed or sad much of the time?</i><br>1 = Yes<br>2 = No  |
| 95    | <i>C3DEP2YR</i><br>Baseline Survey:<br>Depression Most of the Time Question (Q40)       | Num      | 3          | Beneficiary's response to Q40 from the <i>Cohort III Baseline</i> survey:<br><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><br>1 = Yes<br>2 = No   |

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|-------|--|----------|------------|---|
| 96    | C3CMPHTH<br>Baseline Survey:<br>Comparative Health Question (Q41)            | Num      | 3          | Beneficiary's response to Q41 from the Cohort III Baseline survey:<br><i>In general, compared to other people your age, would you say that your health is:</i><br>1 = Excellent<br>2 = Very good<br>3 = Good<br>4 = Fair<br>5 = Poor  |
| 97    | C3SMK100<br>Baseline Survey:<br>Smoked 100 Cigarettes Question (Q42)         | Num      | 3          | Beneficiary's response to Q42 from the Cohort III Baseline survey:<br><i>Have you ever smoked at least 100 cigarettes in your entire life?</i><br>1 = Yes (Go to Q43)<br>2 = No (Go to Q46)<br>3 = Don't know (Go to Q46)   |
| 98    | C3SMKFRQ<br>Baseline Survey:<br>Current Smoker Question (Q43)                | Num      | 3          | Beneficiary's response to Q43 from the Cohort III Baseline survey:<br><i>Do you now smoke every day, some days, or not at all?</i><br>1 = Every day (Go to Q45)<br>2 = Some days (Go to Q45)<br>3 = Not at all (Go to Q44)<br>4 = Don't know (Go to Q46)  |
| 99    | C3DRSQT<br>Baseline Survey:<br>Quit Smoking Question (Q44)                   | Num      | 3          | Beneficiary's response to Q44 from the Cohort III Baseline survey:<br><i>How long has it been since you quit smoking cigarettes?</i><br>1 = Less than 6 months (Go to Q45)<br>2 = 6 months or more (Go to Q46)<br>3 = Don't know (Go to Q46)  |
| 100   | C3QSMKAD<br>Baseline Survey:<br>Smoking Advice Question (Q45)                | Num      | 3          | Beneficiary's response to Q45 from the Cohort III Baseline survey:<br><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><br>1 = None<br>2 = 1 visit<br>3 = 2 to 4 visits<br>4 = 5 to 9 visits<br>5 = 10 or more visits<br>6 = I had no visits in the last 6 months |
| 101   | C3BRTHYR<br>Baseline Survey:<br>Survey Reported Year of Birth Question (Q46) | Char     | 4          | Beneficiary's response to Q46 from the Cohort III Baseline survey:<br><i>In what year were you born?</i>  |
| 102   | C3SV_GND<br>Baseline Survey:<br>Survey Reported Gender Question (Q47)        | Num      | 3          | Beneficiary's response to Q47 from the Cohort III Baseline survey:<br><i>Are you male or female?</i><br>1 = Male<br>2 = Female  |

| <b>VAR #</b> | <b>VARIABLE NAME / DESCRIPTION</b>   | <b>VAR TYPE</b> | <b>VAR LENGTH</b> | <b>ADDITIONAL INFORMATION AND VALID VALUES</b>   |
|--------------|--|-----------------|-------------------|--|
| 103          | <i>C3HISPAN</i><br>Baseline Survey:<br>Hispanic Question (Q48)             | Num             | 3                 | Beneficiary's response to Q48 from the <i>Cohort III Baseline</i> survey:<br><i>Are you of Hispanic or Spanish family background?</i><br>1 = Yes<br>2 = No   |
| 104          | <i>C3SV_RAC</i><br>Baseline Survey:<br>Survey Reported Race Question (Q49) | Num             | 3                 | Beneficiary's response to Q49 from the <i>Cohort III Baseline</i> survey:<br><i>How would you describe your race?</i><br>1 = American Indian or Alaskan Native<br>2 = Asian or Pacific Islander<br>3 = Black or African American<br>4 = White<br>5 = Another race or multiracial   |
| 105          | <i>C3MARITL</i><br>Baseline Survey:<br>Marital Status Question (Q50)       | Num             | 3                 | Beneficiary's response to Q50 from the <i>Cohort III Baseline</i> survey:<br><i>What is your current marital status?</i><br>1 = Married<br>2 = Divorced<br>3 = Separated<br>4 = Widowed<br>5 = Never married   |
| 106          | <i>C3EDUC</i><br>Baseline Survey:<br>Education Question (Q51)              | Num             | 3                 | Beneficiary's response to Q51 from the <i>Cohort III Baseline</i> survey:<br><i>What is the highest grade or level of school that you have completed?</i><br>1 = 8 <sup>th</sup> grade or less<br>2 = Some high school, but did not graduate<br>3 = High school graduate or GED<br>4 = Some college or 2 year degree<br>5 = 4 year college graduate<br>6 = More than a 4 year college degree |
| 107          | <i>C3HMOWN</i><br>Baseline Survey:<br>Housing Question (Q52)               | Num             | 3                 | Beneficiary's response to Q52 from the <i>Cohort III Baseline</i> survey:<br><i>Is the house or apartment you currently live in:</i><br>1 = Owned or being bought by you<br>2 = Owned or being bought by someone in your family other than you<br>3 = Rented for money<br>4 = Not owned and one in which you live without payment of rent  |
| 108          | <i>C3RTRCOM</i><br>Baseline Survey:<br>Retirement Community Question (Q53) | Num             | 3                 | Beneficiary's response to Q53 from the <i>Cohort III Baseline</i> survey:<br><i>Is this house or apartment in a retirement community, building or complex?</i><br>1 = Yes<br>2 = No  |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|---|----------|------------|--|
| 109   | <i>C3MDSVPV</i><br>Baseline Survey:<br>Retirement Community Medical Services Question (Q54) | Num      | 3          | Beneficiary's response to Q54 from the <i>Cohort III Baseline</i> survey:<br><i>If you answered "yes" to question 53 above,</i><br><i>Does this retirement community/building/facility provide medical services?</i><br>1 = Yes<br>2 = No  |
| 110   | <i>C3WHOCMP</i><br>Baseline Survey:<br>Who Completed this Survey Question (Q55)             | Num      | 3          | Beneficiary's response to Q55 from the <i>Cohort III Baseline</i> survey:<br><i>Who completed this survey form?</i><br>1 = Person to whom survey was addressed<br>2 = Family member or relative of person to whom the survey was addressed<br>3 = Friend of person to whom the survey was addressed<br>4 = Professional caregiver of person to whom the survey was addressed   |
| 111   | <i>C3HHINC</i><br>Baseline Survey:<br>Household Income Question (Q57)                       | Num      | 3          | Beneficiary's response to Q57 from the <i>Cohort III Baseline</i> survey:<br><i>Which of the following categories best represents the combined income for all family members in your household for the past 12 months?</i><br>1 = Less than \$5,000<br>2 = \$5,000 - \$9,999<br>3 = \$10,000 - \$19,999<br>4 = \$20,000 - \$29,999<br>5 = \$30,000 - \$39,999<br>6 = \$40,000 - \$49,999<br>7 = \$50,000 - \$79,999<br>8 = \$80,000 - \$99,999<br>9 = \$100,000 or more<br>10 = Don't know |
| 112   | <i>R3GENHTH</i><br>Follow Up Survey:<br>General Health Question (Q1)                        | Num      | 3          | Beneficiary's response to Q1 from the <i>Cohort III Follow Up</i> survey:<br><i>In general, would you say your health is:</i><br>1 = Excellent<br>2 = Very good<br>3 = Good<br>4 = Fair<br>5 = Poor  |
| 113   | <i>R3HTHTRN</i><br>Follow Up Survey:<br>Health Transition Question (Q2)                     | Num      | 3          | Beneficiary's response to Q2 from the <i>Cohort III Follow Up</i> survey:<br><i>Compared to one year ago, how would you rate your health in general now?</i><br>1 = Much better now than 1 year ago<br>2 = Somewhat better now than 1 year ago<br>3 = About the same as 1 year ago<br>4 = Somewhat worse now than 1 year ago<br>5 = Much worse now than 1 year ago   |

| <b>VAR #</b> | <b>VARIABLE NAME / DESCRIPTION</b>  | <b>VAR TYPE</b> | <b>VAR LENGTH</b> | <b>ADDITIONAL INFORMATION AND VALID VALUES</b>  |
|--------------|---|-----------------|-------------------|---|
| 114          | <i>R3VIGACT</i><br>Follow Up Survey:<br>Vigorous Activities Question (Q3a)                | Num             | 3                 | Beneficiary's response to Q3a from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Vigorous activities</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all                |
| 115          | <i>R3MODACT</i><br>Follow Up Survey:<br>Moderate Activities Question (Q3b)                | Num             | 3                 | Beneficiary's response to Q3b from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Moderate activities</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all                |
| 116          | <i>R3LIFT</i><br>Follow Up Survey:<br>Lifting Groceries Question (Q3c)                    | Num             | 3                 | Beneficiary's response to Q3c from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Lifting or carrying groceries</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all      |
| 117          | <i>R3CLMBSV</i><br>Follow Up Survey:<br>Climbing Several Flights of Stairs Question (Q3d) | Num             | 3                 | Beneficiary's response to Q3d from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Climbing several flights of stairs</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all |
| 118          | <i>R3CLMBON</i><br>Follow Up Survey:<br>Climbing One Flight of Stairs Question (Q3e)      | Num             | 3                 | Beneficiary's response to Q3e from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Climbing one flight of stairs</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all      |
| 119          | <i>R3BEND</i><br>Follow Up Survey:<br>Bending, Kneeling, or Stooping Question (Q3f)       | Num             | 3                 | Beneficiary's response to Q3f from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Bending, kneeling, or stooping</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all     |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 120   | R3WLKMI<br>Follow Up Survey:<br>Walking More than a Mile Question (Q3g)                           | Num      | 3          | Beneficiary's response to Q3g from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Walking more than a mile</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all   |
| 121   | R3WLKBKS<br>Follow Up Survey:<br>Walking Several Blocks Question (Q3h)                            | Num      | 3          | Beneficiary's response to Q3h from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Walking several blocks</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all   |
| 122   | R3WLK1BK<br>Follow Up Survey:<br>Walking One Block Question (Q3i)                                 | Num      | 3          | Beneficiary's response to Q3i from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Walking one block</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all  |
| 123   | R3BATHDR<br>Follow Up Survey:<br>Bathing and Dressing Question (Q3j)                              | Num      | 3          | Beneficiary's response to Q3j from the <i>Cohort III Follow Up</i> survey:<br><i>Does your health limit you in these activities? If so, how much?</i><br><u>Bathing or dressing yourself</u><br>1 = Yes, limited a lot<br>2 = Yes, limited a little<br>3 = No, not limited at all   |
| 124   | R3PCUTTM<br>Follow Up Survey:<br>Physical Health Limiting Time Spent on Activities Question (Q4a) | Num      | 3          | Beneficiary's response to Q4a from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Cut down on the amount of time you spent on work or other activities</u><br>1 = Yes<br>2 = No |
| 125   | R3PACMPL<br>Follow Up Survey:<br>Physical Health Limiting Amount Accomplished Question (Q4b)      | Num      | 3          | Beneficiary's response to Q4b from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Accomplished less than you would like</u><br>1 = Yes<br>2 = No                                |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 126   | <i>R3PLMTKW</i><br>Follow Up Survey:<br>Physical Health Limiting the Kind of Activities Question (Q4c)          | Num      | 3          | Beneficiary's response to Q4c from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Were limited in the kind of work or other activities</u><br>1 = Yes<br>2 = No                   |
| 127   | <i>R3PDIFWK</i><br>Follow Up Survey:<br>Physical Health Causing Difficulty Performing Activities Question (Q4d) | Num      | 3          | Beneficiary's response to Q4d from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Had difficulty performing the work or other activities</u><br>1 = Yes<br>2 = No                 |
| 128   | <i>R3ECUTTM</i><br>Follow Up Survey:<br>Emotional Problems Limiting Time Spent on Activities Question (Q5a)     | Num      | 3          | Beneficiary's response to Q5a from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i><br><u>Cut down on the amount of time you spent on work or other activities</u><br>1 = Yes<br>2 = No |
| 129   | <i>R3EACMPL</i><br>Follow Up Survey:<br>Emotional Problems Limiting Amount Accomplished Question (Q5b)          | Num      | 3          | Beneficiary's response to Q5b from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i><br><u>Accomplished less than you would like</u><br>1 = Yes<br>2 = No                                |
| 130   | <i>R3ENTCRF</i><br>Follow Up Survey:<br>Emotional Problems Limiting Carefulness Question (Q5c)                  | Num      | 3          | Beneficiary's response to Q5c from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, have you had problems with your work or other regular daily activities as a result of any emotional problems?</i><br><u>Didn't do work or other activities as carefully as usual</u><br>1 = Yes<br>2 = No             |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|--|----------|------------|--|
| 131   | <i>R3SOCLMT</i><br>Follow Up Survey:<br>Extent Health Interfering with Social Activities Question (Q6) | Num      | 3          | Beneficiary's response to Q6 from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities...?</i><br>1 = Not at all<br>2 = Slightly<br>3 = Moderately<br>4 = Quite a bit<br>5 = Extremely                         |
| 132   | <i>R3PNMAGT</i><br>Follow Up Survey:<br>Bodily Pain Question (Q7)                                      | Num      | 3          | Beneficiary's response to Q7 from the <i>Cohort III Follow Up</i> survey:<br><i>How much bodily pain have you had during the past 4 weeks?</i><br>1 = None<br>2 = Very mild<br>3 = Mild<br>4 = Moderate<br>5 = Severe<br>6 = Very severe   |
| 133   | <i>R3PNINTF</i><br>Follow Up Survey:<br>Pain Interfering with Work Question (Q8)                       | Num      | 3          | Beneficiary's response to Q8 from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, how much did pain interfere with your normal work?</i><br>1 = Not at all<br>2 = A little bit<br>3 = Moderately<br>4 = Quite a bit<br>5 = Extremely  |
| 134   | <i>R3FULPEP</i><br>Follow Up Survey:<br>Full of Pep Question (Q9a)                                     | Num      | 3          | Beneficiary's response to Q9a from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Did you feel full of pep?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time            |
| 135   | <i>R3NERVS</i><br>Follow Up Survey:<br>Nervous Question (Q9b)  | Num      | 3          | Beneficiary's response to Q9b from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you been a very nervous person?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|--|----------|------------|---|
| 136   | <i>R3DNDMPS</i><br>Follow Up Survey:<br>Down in the Dumps Question (Q9c)   | Num      | 3          | Beneficiary's response to Q9c from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you felt so down in the dumps that nothing could cheer you up?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time |
| 137   | <i>R3PCEFUL</i><br>Follow Up Survey:<br>Calm and Peaceful Question (Q9d)   | Num      | 3          | Beneficiary's response to Q9d from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you felt calm and peaceful?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                                    |
| 138   | <i>R3ENERGY</i><br>Follow Up Survey:<br>Lots of Energy Question (Q9e)      | Num      | 3          | Beneficiary's response to Q9e from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Did you have a lot of energy?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                                       |
| 139   | <i>R3BLSAD</i><br>Follow Up Survey:<br>Downhearted and Blue Question (Q9f) | Num      | 3          | Beneficiary's response to Q9f from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you felt downhearted and blue?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                                 |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|---|----------|------------|--|
| 140   | <i>R3WRNOUT</i><br>Follow Up Survey:<br>Feeling Worn Out Question (Q9g)   | Num      | 3          | Beneficiary's response to Q9g from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Did you feel worn out?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                       |
| 141   | <i>R3HAPPY</i><br>Follow Up Survey:<br>Happy Question (Q9h)   | Num      | 3          | Beneficiary's response to Q9h from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Have you been a happy person?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                |
| 142   | <i>R3TIRED</i><br>Follow Up Survey:<br>Feeling Tired Question (Q9i)   | Num      | 3          | Beneficiary's response to Q9i from the <i>Cohort III Follow Up</i> survey:<br><i>How much of the time during the past 4 weeks...</i><br><u>Did you feel tired?</u><br>1 = All of the time<br>2 = Most of the time<br>3 = A good bit of the time<br>4 = Some of the time<br>5 = A little of the time<br>6 = None of the time                          |
| 143   | <i>R3SCLACT</i><br>Follow Up Survey:<br>Amount of Time Health Interfering with Social Activities Question (Q10) | Num      | 3          | Beneficiary's response to Q10 from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities?</i><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |

| VAR # | VARIABLE NAME / DESCRIPTION                                       | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 144   | R3SCKESY<br>Follow Up Survey:<br>Sick Easier Question (Q11a)      | Num      | 3          | Beneficiary's response to Q11a from the <i>Cohort III Follow Up</i> survey:<br><i>How true or false is each of the following statements for you?</i><br><u>I seem to get sick a little easier than other people</u><br>1 = Definitely true<br>2 = Mostly true<br>3 = Don't know<br>4 = Mostly false<br>5 = Definitely false |
| 145   | R3ASHLTH<br>Follow Up Survey:<br>As Healthy Question (Q11b)       | Num      | 3          | Beneficiary's response to Q11b from the <i>Cohort III Follow Up</i> survey:<br><i>How true or false is each of the following statements for you?</i><br><u>I am as healthy as anybody I know</u><br>1 = Definitely true<br>2 = Mostly true<br>3 = Don't know<br>4 = Mostly false<br>5 = Definitely false                    |
| 146   | R3HTHWSE<br>Follow Up Survey:<br>Future Health Question (Q11c)    | Num      | 3          | Beneficiary's response to Q11c from the <i>Cohort III Follow Up</i> survey:<br><i>How true or false is each of the following statements for you?</i><br><u>I expect my health to get worse</u><br>1 = Definitely true<br>2 = Mostly true<br>3 = Don't know<br>4 = Mostly false<br>5 = Definitely false                      |
| 147   | R3HTHEXT<br>Follow Up Survey:<br>Excellent Health Question (Q11d) | Num      | 3          | Beneficiary's response to Q11d from the <i>Cohort III Follow Up</i> survey:<br><i>How true or false is each of the following statements for you?</i><br><u>My health is excellent</u><br>1 = Definitely true<br>2 = Mostly true<br>3 = Don't know<br>4 = Mostly false<br>5 = Definitely false                               |
| 148   | R3DIFBTH<br>Follow Up Survey:<br>Bathing Question (Q12a)          | Num      | 3          | Beneficiary's response to Q12a from the <i>Cohort III Follow Up</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Bathing</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty        |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|---|----------|------------|--|
| 149   | R3DIFDRS<br>Follow Up Survey:<br>Dressing Question (Q12b)                 | Num      | 3          | Beneficiary's response to Q12b from the <i>Cohort III Follow Up</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Dressing</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty                    |
| 150   | R3DIFEAT<br>Follow Up Survey:<br>Eating Question (Q12c)                   | Num      | 3          | Beneficiary's response to Q12c from the <i>Cohort III Follow Up</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Eating</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty                      |
| 151   | R3DIFCHR<br>Follow Up Survey:<br>Getting In/Out of Chairs Question (Q12d) | Num      | 3          | Beneficiary's response to Q12d from the <i>Cohort III Follow Up</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Getting in or out of chairs</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty |
| 152   | R3DIFWLK<br>Follow Up Survey:<br>Walking Question (Q12e)                  | Num      | 3          | Beneficiary's response to Q12e from the <i>Cohort III Follow Up</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Walking</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty                     |
| 153   | R3DIFTOL<br>Follow Up Survey:<br>Using the Toilet Question (Q12f)         | Num      | 3          | Beneficiary's response to Q12f from the <i>Cohort III Follow Up</i> survey:<br><i>Because of a health or physical problem, do you have any difficulty doing the following activities?</i><br><u>Using the toilet</u><br>1 = I am unable to do this activity<br>2 = Yes, I have difficulty<br>3 = No, I do not have difficulty            |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|--|----------|------------|---|
| 154   | R3CPNEXR<br>Follow Up Survey:<br>Chest Pain/Pressure on Exertion Question (Q13a) | Num      | 3          | Beneficiary's response to Q13a from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, how often have you had any of the following problems</i><br><u>Chest pain or pressure when you exercise</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time   |
| 155   | R3CPNRST<br>Follow Up Survey:<br>Chest Pain/Pressure at Rest Question (Q13b)     | Num      | 3          | Beneficiary's response to Q13b from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, how often have you had any of the following problems</i><br><u>Chest pain or pressure when resting</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time        |
| 156   | R3SOBFLT<br>Follow Up Survey:<br>Orthopnea Question (Q14a)                       | Num      | 3          | Beneficiary's response to Q14a from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i><br><u>When lying down flat</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time    |
| 157   | R3SOBSIT<br>Follow Up Survey:<br>Dyspnea while Sitting/Resting Question (Q14b)   | Num      | 3          | Beneficiary's response to Q14b from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i><br><u>When sitting or resting</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|--|----------|------------|--|
| 158   | <i>R3SOBWLK</i><br>Follow Up Survey:<br>Dyspnea when Walking Less than One Block Question (Q14c)   | Num      | 3          | Beneficiary's response to Q14c from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i><br><u>When walking less than one block</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time                           |
| 159   | <i>R3SOBSTR</i><br>Follow Up Survey:<br>Dyspnea when Climbing One Flight of Stairs Question (Q14d) | Num      | 3          | Beneficiary's response to Q14d from the <i>Cohort III Follow Up</i> survey:<br><i>During the past 4 weeks, how often have you felt short of breath under the following conditions?</i><br><u>When climbing one flight of stairs</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time                         |
| 160   | <i>R3NMBFET</i><br>Follow Up Survey:<br>Numbness in Feet Question (Q15a)                           | Num      | 3          | Beneficiary's response to Q15a from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Numbness or loss of feeling in your feet</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time  |
| 161   | <i>R3ANKSWL</i><br>Follow Up Survey:<br>Ankle/Leg Edema Question (Q15b)                            | Num      | 3          | Beneficiary's response to Q15b from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Ankles/legs that swell as the day goes on</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|--|----------|------------|---|
| 162   | R3TINGFT<br>Follow Up Survey:<br>Foot Tingling/Burning Question (Q15c)                   | Num      | 3          | Beneficiary's response to Q15c from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Tingling or burning in your feet especially at night</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |
| 163   | R3DECSNS<br>Follow Up Survey:<br>Decreased Temperature Sensation in Feet Question (Q15d) | Num      | 3          | Beneficiary's response to Q15d from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Decreased ability to feel hot or cold with your feet</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |
| 164   | R3DECHEL<br>Follow Up Survey:<br>Sores/Wounds on Feet Question (Q15e)                    | Num      | 3          | Beneficiary's response to Q15e from the <i>Cohort III Follow Up</i> survey:<br><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><br><u>Sores or wounds on your feet that did not heal</u><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time       |
| 165   | R3PARLYS<br>Follow Up Survey:<br>Hemiparalysis/Weakness Question (Q16a)                  | Num      | 3          | Beneficiary's response to Q16a from the <i>Cohort III Follow Up</i> survey:<br><i>Have you ever had paralysis or weakness on one side of the body?</i><br>1 = Yes, I have it<br>2 = Yes, but it went away<br>3 = No   |
| 166   | R3LSTTLK<br>Follow Up Survey:<br>Lost Ability to Talk Question (Q16b)                    | Num      | 3          | Beneficiary's response to Q16b from the <i>Cohort III Follow Up</i> survey:<br><i>Have you ever lost the ability to talk?</i><br>1 = Yes, I have lost it<br>2 = Yes, but it returned<br>3 = No  |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|---|----------|------------|--|
| 167   | <i>R3RDNEWP</i><br>Follow Up Survey:<br>Vision Question (Q17)                           | Num      | 3          | Beneficiary's response to Q17 from the <i>Cohort III Follow Up</i> survey:<br><i>Can you see well enough to read newspaper print?</i><br>1 = Yes<br>2 = No   |
| 168   | <i>R3HRMOST</i><br>Follow Up Survey:<br>Hearing Question (Q18)                          | Num      | 3          | Beneficiary's response to Q18 from the <i>Cohort III Follow Up</i> survey:<br><i>Can you hear most of the things people say?</i><br>1 = Yes<br>2 = No  |
| 169   | <i>R3ACDING</i><br>Follow Up Survey:<br>Acid Indigestion Question (Q19)                 | Num      | 3          | Beneficiary's response to Q19 from the <i>Cohort III Follow Up</i> survey:<br><i>Do you now have acid indigestion or heartburn?</i><br>1 = Yes<br>2 = No   |
| 170   | <i>R3CTRURN</i><br>Follow Up Survey:<br>Difficulty Controlling Urination Question (Q20) | Num      | 3          | Beneficiary's response to Q20 from the <i>Cohort III Follow Up</i> survey:<br><i>Do you have difficulty controlling urination?</i><br>1 = Yes<br>2 = No  |
| 171   | <i>R3HIGHBP</i><br>Follow Up Survey:<br>Hypertension Question (Q21)                     | Num      | 3          | Beneficiary's response to Q21 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Hypertension or high blood pressure</u><br>1 = Yes<br>2 = No     |
| 172   | <i>R3ANGCAD</i><br>Follow Up Survey:<br>Angina/Coronary Artery Disease Question (Q22)   | Num      | 3          | Beneficiary's response to Q22 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Angina or coronary artery disease</u><br>1 = Yes<br>2 = No       |
| 173   | <i>R3CHF</i><br>Follow Up Survey:<br>Congestive Heart Failure Question (Q23)            | Num      | 3          | Beneficiary's response to Q23 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Congestive heart failure</u><br>1 = Yes<br>2 = No                |
| 174   | <i>R3AMI</i><br>Follow Up Survey:<br>Myocardial Infarction Question (Q24)               | Num      | 3          | Beneficiary's response to Q24 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>A myocardial infarction or heart attack</u><br>1 = Yes<br>2 = No |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 175   | <i>R3OTHRT</i><br>Follow Up Survey:<br>Other Heart Conditions Question (Q25)      | Num      | 3          | Beneficiary's response to Q25 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Other heart conditions...</u><br>1 = Yes<br>2 = No  |
| 176   | <i>R3STROKE</i><br>Follow Up Survey:<br>Stroke Question (Q26)                     | Num      | 3          | Beneficiary's response to Q26 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Stroke</u><br>1 = Yes<br>2 = No   |
| 177   | <i>R3COPD_E</i><br>Follow Up Survey:<br>COPD Question (Q27)                       | Num      | 3          | Beneficiary's response to Q27 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Emphysema, asthma, or COPD</u><br>1 = Yes<br>2 = No   |
| 178   | <i>R3GI_ETC</i><br>Follow Up Survey:<br>Inflammatory Bowel Disease Question (Q28) | Num      | 3          | Beneficiary's response to Q28 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Crohn's disease, ulcerative colitis, or inflammatory bowel disease</u><br>1 = Yes<br>2 = No |
| 179   | <i>R3ATHHIP</i><br>Follow Up Survey:<br>Arthritis of Hip/Knee Question (Q29)      | Num      | 3          | Beneficiary's response to Q29 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Arthritis of the hip or knee</u><br>1 = Yes<br>2 = No                                       |
| 180   | <i>R3ATHHAN</i><br>Follow Up Survey:<br>Arthritis of Hand/Wrist Question (Q30)    | Num      | 3          | Beneficiary's response to Q30 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Arthritis of the hand or wrist</u><br>1 = Yes<br>2 = No                                     |
| 181   | <i>R3SCIATC</i><br>Follow Up Survey:<br>Sciatica Question (Q31)                   | Num      | 3          | Beneficiary's response to Q31 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Sciatica</u><br>1 = Yes<br>2 = No   |
| 182   | <i>R3DIABET</i><br>Follow Up Survey:<br>Diabetes Question (Q32)                   | Num      | 3          | Beneficiary's response to Q32 from the <i>Cohort III Follow Up</i> survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Diabetes, high blood sugar, or sugar in the urine</u><br>1 = Yes<br>2 = No                  |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|--|----------|------------|---|
| 183   | R3ANYCAN<br>Follow Up Survey:<br>Any Cancer Question (Q33)                   | Num      | 3          | Beneficiary's response to Q33 from the Cohort III Follow Up survey:<br><i>Has a doctor ever told you that you had:</i><br><u>Any cancer (other than skin cancer)</u><br>1 = Yes<br>2 = No   |
| 184   | R3ARTHPN<br>Follow Up Survey:<br>Arthritis Pain Question (Q34)               | Num      | 3          | Beneficiary's response to Q34 from the Cohort III Follow Up survey:<br><i>If you answered "yes" to questions 29 or 30 above (that you have arthritis), During the past 4 weeks, how would you describe the arthritis pain you usually had?</i><br>1 = None<br>2 = Very mild<br>3 = Mild<br>4 = Moderate<br>5 = Severe |
| 185   | R3COLNCA<br>Follow Up Survey:<br>Colorectal Cancer Treatment Question (Q35a) | Num      | 3          | Beneficiary's response to Q35a from the Cohort III Follow Up survey:<br><i>If you answered "yes" to question 33 above (that you have had cancer), Are you currently under treatment for:</i><br><u>Colon or rectal cancer</u><br>1 = Yes<br>2 = No  |
| 186   | R3LUNGCA<br>Follow Up Survey:<br>Lung Cancer Treatment Question (Q35b)       | Num      | 3          | Beneficiary's response to Q35b from the Cohort III Follow Up survey:<br><i>If you answered "yes" to question 33 above (that you have had cancer), Are you currently under treatment for:</i><br><u>Lung cancer</u><br>1 = Yes<br>2 = No   |
| 187   | R3BRSTCA<br>Follow Up Survey:<br>Breast Cancer Treatment Question (Q35c)     | Num      | 3          | Beneficiary's response to Q35c from the Cohort III Follow Up survey:<br><i>If you answered "yes" to question 33 above (that you have had cancer), Are you currently under treatment for:</i><br><u>Breast cancer</u><br>1 = Yes<br>2 = No   |
| 188   | R3PROSCA<br>Follow Up Survey:<br>Prostate Cancer Treatment Question (Q35d)   | Num      | 3          | Beneficiary's response to Q35d from the Cohort III Follow Up survey:<br><i>If you answered "yes" to question 33 above (that you have had cancer), Are you currently under treatment for:</i><br><u>Prostate cancer</u><br>1 = Yes<br>2 = No   |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|--|----------|------------|---|
| 189   | <i>R3BACKPN</i><br>Follow Up Survey:<br>Low Back Pain Question (Q36)                     | Num      | 3          | Beneficiary's response to Q36 from the <i>Cohort III Follow Up</i> survey:<br><i>In the past 4 weeks, how often has low back pain interfered with your usual daily activities?</i><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time                           |
| 190   | <i>R3NUMBLG</i><br>Follow Up Survey:<br>Pain, Numbness, Tingling Down Leg Question (Q37) | Num      | 3          | Beneficiary's response to Q37 from the <i>Cohort III Follow Up</i> survey:<br><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><br>1 = All of the time<br>2 = Most of the time<br>3 = Some of the time<br>4 = A little of the time<br>5 = None of the time |
| 191   | <i>R3FELTSD</i><br>Follow Up Survey:<br>Two Weeks of Depression Question (Q38)           | Num      | 3          | Beneficiary's response to Q38 from the <i>Cohort III Follow Up</i> survey:<br><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><br>1 = Yes<br>2 = No   |
| 192   | <i>R3DEPMCH</i><br>Follow Up Survey:<br>Depression Much of the Time Question (Q39)       | Num      | 3          | Beneficiary's response to Q39 from the <i>Cohort III Follow Up</i> survey:<br><i>In the past year, have you felt depressed or sad much of the time?</i><br>1 = Yes<br>2 = No  |
| 193   | <i>R3DEP2YR</i><br>Follow Up Survey:<br>Depression Most of the Time Question (Q40)       | Num      | 3          | Beneficiary's response to Q40 from the <i>Cohort III Follow Up</i> survey:<br><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><br>1 = Yes<br>2 = No   |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 194   | R3CMPHTH<br>Follow Up Survey:<br>Comparative Health Question (Q41)            | Num      | 3          | Beneficiary's response to Q41 from the <i>Cohort III Follow Up</i> survey:<br><i>In general, compared to other people your age, would you say that your health is:</i><br>1 = Excellent<br>2 = Very good<br>3 = Good<br>4 = Fair<br>5 = Poor  |
| 195   | R3SMK100<br>Follow Up Survey:<br>Smoked 100 Cigarettes Question (Q42)         | Num      | 3          | Beneficiary's response to Q42 from the <i>Cohort III Follow Up</i> survey:<br><i>Have you ever smoked at least 100 cigarettes in your entire life?</i><br>1 = Yes (Go to Q43)<br>2 = No (Go to Q46)<br>3 = Don't know (Go to Q46)   |
| 196   | R3SMKFRQ<br>Follow Up Survey:<br>Current Smoker Question (Q43)                | Num      | 3          | Beneficiary's response to Q43 from the <i>Cohort III Follow Up</i> survey:<br><i>Do you now smoke every day, some days, or not at all?</i><br>1 = Every day (Go to Q45)<br>2 = Some days (Go to Q45)<br>3 = Not at all (Go to Q44)<br>4 = Don't know (Go to Q46)  |
| 197   | R3DRSQT<br>Follow Up Survey:<br>Quit Smoking Question (Q44)                   | Num      | 3          | Beneficiary's response to Q44 from the <i>Cohort III Follow Up</i> survey:<br><i>How long has it been since you quit smoking cigarettes?</i><br>1 = Less than 6 months (Go to Q45)<br>2 = 6 months or more (Go to Q46)<br>3 = Don't know (Go to Q46)  |
| 198   | R3QSMKAD<br>Follow Up Survey:<br>Smoking Advice Question (Q45)                | Num      | 3          | Beneficiary's response to Q45 from the <i>Cohort III Follow Up</i> survey:<br><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><br>1 = None<br>2 = 1 visit<br>3 = 2 to 4 visits<br>4 = 5 to 9 visits<br>5 = 10 or more visits<br>6 = I had no visits in the last 6 months |
| 199   | R3BRTHYR<br>Follow Up Survey:<br>Survey Reported Year of Birth Question (Q46) | Char     | 4          | Beneficiary's response to Q46 from the <i>Cohort III Follow Up</i> survey:<br><i>In what year were you born?</i>  |
| 200   | R3SV_GND<br>Follow Up Survey:<br>Survey Reported Gender Question (Q47)        | Num      | 3          | Beneficiary's response to Q47 from the <i>Cohort III Follow Up</i> survey:<br><i>Are you male or female?</i><br>1 = Male<br>2 = Female  |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|---|----------|------------|---|
| 201   | <i>R3HISPAN</i><br>Follow Up Survey:<br>Hispanic Question (Q48)             | Num      | 3          | Beneficiary's response to Q48 from the <i>Cohort III Follow Up</i> survey:<br><i>Are you of Hispanic or Spanish family background?</i><br>1 = Yes<br>2 = No   |
| 202   | <i>R3SV_RAC</i><br>Follow Up Survey:<br>Survey Reported Race Question (Q49) | Num      | 3          | Beneficiary's response to Q49 from the <i>Cohort III Follow Up</i> survey:<br><i>How would you describe your race?</i><br>1 = American Indian or Alaskan Native<br>2 = Asian or Pacific Islander<br>3 = Black or African American<br>4 = White<br>5 = Another race or multiracial   |
| 203   | <i>R3MARITL</i><br>Follow Up Survey:<br>Marital Status Question (Q50)       | Num      | 3          | Beneficiary's response to Q50 from the <i>Cohort III Follow Up</i> survey:<br><i>What is your current marital status?</i><br>1 = Married<br>2 = Divorced<br>3 = Separated<br>4 = Widowed<br>5 = Never married   |
| 204   | <i>R3EDUC</i><br>Follow Up Survey:<br>Education Question (Q51)              | Num      | 3          | Beneficiary's response to Q51 from the <i>Cohort III Follow Up</i> survey:<br><i>What is the highest grade or level of school that you have completed?</i><br>1 = 8 <sup>th</sup> grade or less<br>2 = Some high school, but did not graduate<br>3 = High school graduate or GED<br>4 = Some college or 2 year degree<br>5 = 4 year college graduate<br>6 = More than a 4 year college degree |
| 205   | <i>R3HMOWN</i><br>Follow Up Survey:<br>Housing Question (Q52)               | Num      | 3          | Beneficiary's response to Q52 from the <i>Cohort III Follow Up</i> survey:<br><i>Is the house or apartment you currently live in:</i><br>1 = Owned or being bought by you<br>2 = Owned or being bought by someone in your family other than you<br>3 = Rented for money<br>4 = Not owned and one in which you live without payment of rent<br>5 = None of the above                           |
| 206   | <i>R3RTRCOM</i><br>Follow Up Survey:<br>Retirement Community Question (Q53) | Num      | 3          | Beneficiary's response to Q53 from the <i>Cohort III Follow Up</i> survey:<br><i>Is this house or apartment in a retirement community, building or complex?</i><br>1 = Yes<br>2 = No  |

| <b>VAR #</b> | <b>VARIABLE NAME / DESCRIPTION</b>   | <b>VAR TYPE</b> | <b>VAR LENGTH</b> | <b>ADDITIONAL INFORMATION AND VALID VALUES</b>  |
|--------------|--|-----------------|-------------------|---|
| 207          | <i>R3MDSVPV</i><br>Follow Up Survey:<br>Retirement Community Medical Services Question (Q54) | Num             | 3                 | Beneficiary's response to Q54 from the <i>Cohort III Follow Up</i> survey:<br><i>If you answered "yes" to question 53 above,</i><br><i>Does this retirement community/building/facility provide medical services?</i><br>1 = Yes<br>2 = No  |
| 208          | <i>R3WHOCMP</i><br>Follow Up Survey:<br>Who Completed this Survey Question (Q55)             | Num             | 3                 | Beneficiary's response to Q55 from the <i>Cohort III Follow Up</i> survey:<br><i>Who completed this survey form?</i><br>1 = Person to whom survey was addressed (Go to Q57)<br>2 = Family member or relative of person to whom the survey was addressed<br>3 = Friend of person to whom the survey was addressed<br>4 = Professional caregiver of person to whom the survey was addressed   |
| 209          | <i>R3HHINC</i><br>Follow Up Survey:<br>Household Income Question (Q57)                       | Num             | 3                 | Beneficiary's response to Q57 from the <i>Cohort III Follow Up</i> survey:<br><i>Which of the following categories best represents the combined income for all family members in your household for the past 12 months?</i><br>1 = Less than \$5,000<br>2 = \$5,000 - \$9,999<br>3 = \$10,000 - \$19,999<br>4 = \$20,000 - \$29,999<br>5 = \$30,000 - \$39,999<br>6 = \$40,000 - \$49,999<br>7 = \$50,000 - \$79,999<br>8 = \$80,000 - \$99,999<br>9 = \$100,000 or more<br>10 = Don't know |
| 210          | <i>C3DISP</i><br>Survey Response Indicator for Mail/Telephone Responses at Baseline          | Num             | 3                 | Beneficiary completed a:<br>1 = Mail Survey at Baseline<br>2 = Telephone Survey at Baseline   |
| 211          | <i>R3DISP</i><br>Survey Response Indicator for Mail/Telephone Responses at Follow Up         | Num             | 3                 | Beneficiary completed a:<br>1 = Mail Survey at Follow Up<br>2 = Telephone Survey at Follow Up   |
| 212          | <i>C3ESVDAT</i><br>Date Baseline Survey Completed  | Num             | 8                 | MMDDYY10. format  |
| 213          | <i>C3ESVDT2</i><br>Date Baseline Survey Completed with Missing Values Imputed                | Num             | 8                 | MMDDYY10. format<br>This variable, in combination with date of birth ( <i>C3EDOB</i> ), was used to calculate age.  |
| 214          | <i>R3ESVDAT</i><br>Date Follow Up Survey Completed   | Num             | 8                 | MMDDYY10. format  |

| <b>VAR #</b> | <b>VARIABLE NAME / DESCRIPTION</b>   | <b>VAR TYPE</b> | <b>VAR LENGTH</b> | <b>ADDITIONAL INFORMATION AND VALID VALUES</b>  |
|--------------|--|-----------------|-------------------|---|
| 215          | <i>R3ESVDT2</i><br>Date Follow Up Survey Completed with Missing Values Imputed   | Num             | 8                 | MMDDYY10. format  |
| 216          | <i>C3SVLANG</i><br>Survey Language at Baseline   | Num             | 3                 | <i>Cohort III Baseline</i> Survey Language<br>1 = English<br>2 = Spanish<br>3 = Not Applicable  |
| 217          | <i>R3SVLANG</i><br>Survey Language at Follow Up  | Num             | 3                 | <i>Cohort III Follow Up</i> Survey Language<br>1 = English<br>2 = Spanish<br>3 = Not Applicable<br>4 = Chinese  |
| 218          | <i>C3VENDOR</i><br>Baseline Survey:<br>Survey Vendor   | Num             | 3                 | <i>Cohort III Baseline</i> Survey Vendor:<br>1 = DSS<br>2 = GHS<br>3 = HCIA (Solucient)<br>4 = Market Facts<br>5 = NRC<br>6 = Roper Starch  |
| 219          | <i>R3VENDOR</i><br>Follow Up Survey:<br>Survey Vendor  | Num             | 3                 | <i>Cohort III Follow Up</i> Survey Vendor:<br>1 = DSS<br>2 = GHS<br>3 = Solucient<br>4 = Market Facts<br>5 = DataStat, Inc.   |
| 220          | <i>R3PROXST</i><br>Follow Up Survey:<br>Proxy Status Indicator that Combines Baseline and Follow Up Information on Who Completed the Surveys | Num             | 3                 | <i>Cohort III Follow Up</i> Proxy Status:<br>1 = Member at Baseline and Member at Follow Up<br>2 = Member at Baseline and Proxy at Follow Up<br>3 = Proxy at Baseline and Member at Follow Up<br>4 = Proxy at Baseline and Same Proxy at Follow Up<br>5 = Proxy at Baseline and Different Proxy at Follow Up<br>6 = Not Enough Information at Baseline<br>7 = Not Enough Information at Follow Up |
| 221          | <i>C3PCS98</i><br>Baseline PCS Score   | Num             | 8                 | Beneficiary's Baseline PCS Score  |
| 222          | <i>C3MCS98</i><br>Baseline MCS Score   | Num             | 8                 | Beneficiary's Baseline MCS Score  |
| 223          | <i>C3PFS98</i><br>Baseline Physical Functioning (PF) Scale Score   | Num             | 8                 | Beneficiary's Baseline Physical Functioning (PF) Scale Score  |
| 224          | <i>C3RPS98</i><br>Baseline Role-Physical (RP) Scale Score  | Num             | 8                 | Beneficiary's Baseline Role-Physical (RP) Scale Score   |

| <b>VAR #</b> | <b>VARIABLE NAME / DESCRIPTION</b>                                | <b>VAR TYPE</b> | <b>VAR LENGTH</b> | <b>ADDITIONAL INFORMATION AND VALID VALUES</b>   |
|--------------|---|-----------------|-------------------|--|
| 225          | <i>C3BPS98</i><br>Baseline Bodily Pain (BP) Scale Score           | Num             | 8                 | Beneficiary's Baseline Bodily Pain (BP) Scale Score  |
| 226          | <i>C3GHS98</i><br>Baseline General Health (GH) Scale Score        | Num             | 8                 | Beneficiary's Baseline General Health (GH) Scale Score   |
| 227          | <i>C3VTS98</i><br>Baseline Vitality (VT) Scale Score              | Num             | 8                 | Beneficiary's Baseline Vitality (VT) Scale Score   |
| 228          | <i>C3SFS98</i><br>Baseline Social Functioning (SF) Scale Score    | Num             | 8                 | Beneficiary's Baseline Social Functioning (SF) Scale Score   |
| 229          | <i>C3RES98</i><br>Baseline Role-Emotional (RE) Scale Score        | Num             | 8                 | Beneficiary's Baseline Role-Emotional (RE) Scale Score   |
| 230          | <i>C3MHS98</i><br>Baseline Mental Health (MH) Scale Score         | Num             | 8                 | Beneficiary's Baseline Mental Health (MH) Scale Score  |
| 231          | <i>R3PCS98</i><br>Follow Up PCS Score                             | Num             | 8                 | Beneficiary's Follow Up PCS Score  |
| 232          | <i>R3MCS98</i><br>Follow Up MCS Score                             | Num             | 8                 | Beneficiary's Follow Up MCS Score  |
| 233          | <i>R3PFS98</i><br>Follow Up Physical Functioning (PF) Scale Score | Num             | 8                 | Beneficiary's Follow Up Physical Functioning (PF) Scale Score  |
| 234          | <i>R3RPS98</i><br>Follow Up Role-Physical (RP) Scale Score        | Num             | 8                 | Beneficiary's Follow Up Role-Physical (RP) Scale Score   |
| 235          | <i>R3BPS98</i><br>Follow Up Bodily Pain (BP) Scale Score          | Num             | 8                 | Beneficiary's Follow Up Bodily Pain (BP) Scale Score   |
| 236          | <i>R3GHS98</i><br>Follow Up General Health (GH) Scale Score       | Num             | 8                 | Beneficiary's Follow Up General Health (GH) Scale Score  |
| 237          | <i>R3VTS98</i><br>Follow Up Vitality (VT) Scale Score             | Num             | 8                 | Beneficiary's Follow Up Vitality (VT) Scale Score  |
| 238          | <i>R3SFS98</i><br>Follow Up Social Functioning (SF) Scale Score   | Num             | 8                 | Beneficiary's Follow Up Social Functioning (SF) Scale Score  |
| 239          | <i>R3RES98</i><br>Follow Up Role-Emotional (RE) Scale Score       | Num             | 8                 | Beneficiary's Follow Up Role-Emotional (RE) Scale Score  |
| 240          | <i>R3MHS98</i><br>Follow Up Mental Health (MH) Scale Score        | Num             | 8                 | Beneficiary's Follow Up Mental Health (MH) Scale Score   |
| 241          | <i>AHICNUM</i><br>Health Insurance Claim (HIC) Number             | Char            | 12                | Unique identifier used to identify each beneficiary. This information is derived from CMS' Enrollment Data Base (EDB). This was the beneficiary level unit of analysis for the Performance Measurement Report. |

| <b>VAR #</b> | <b>VARIABLE NAME / DESCRIPTION</b>   | <b>VAR TYPE</b> | <b>VAR LENGTH</b> | <b>ADDITIONAL INFORMATION AND VALID VALUES</b>   |
|--------------|--|-----------------|-------------------|--|
| 242          | <i>C3LNAME</i><br>Beneficiary's Last Name  | Char            | 12                | Beneficiary's last name from the Baseline member level record  |
| 243          | <i>C3MI</i><br>Beneficiary's Middle Initial  | Char            | 1                 | Beneficiary's middle initial from the Baseline member level record   |
| 244          | <i>C3FNAME</i><br>Beneficiary's First Name   | Char            | 15                | Beneficiary's first name from the Baseline member level record   |
| 245          | <i>C3ADDRSS</i><br>Beneficiary's Baseline Mailing Address                                | Char            | 132               | Beneficiary's mailing address from the Baseline member level record  |
| 246          | <i>C3STATE</i><br>Beneficiary's Baseline Social Security Administration (SSA) State Code | Char            | 2                 | Beneficiary's SSA state code from the Baseline member level record   |
| 247          | <i>C3COUNTY</i><br>Beneficiary's Baseline SSA County Code                                | Char            | 3                 | Beneficiary's SSA county code from the Baseline member level record  |
| 248          | <i>C3STABV</i><br>Beneficiary's Baseline SSA State Two Letter Abbreviation               | Char            | 2                 | Beneficiary's two letter state abbreviation based on the Baseline SSA state code   |
| 249          | <i>C3CTNAME</i><br>Beneficiary's Baseline SSA County Name                                | Char            | 25                | Beneficiary's county name based on the Baseline SSA county code  |
| 250          | <i>C3ZIPCOD</i><br>Beneficiary's Baseline ZIP Code                                       | Char            | 9                 | Beneficiary's ZIP code from the Baseline member level record   |
| 251          | <i>R3ADDRSS</i><br>Beneficiary's Follow Up Mailing Address                               | Char            | 132               | Beneficiary's mailing address from the Follow Up member level record   |
| 252          | <i>R3STATE</i><br>Beneficiary's Follow Up SSA State Code                                 | Char            | 2                 | Beneficiary's SSA state code from the Follow Up member level record  |
| 253          | <i>R3COUNTY</i><br>Beneficiary's Follow Up SSA County Code                               | Char            | 3                 | Beneficiary's SSA county code from the Follow Up member level record   |
| 254          | <i>R3STABV</i><br>Beneficiary's Follow Up SSA State Two Letter Abbreviation              | Char            | 2                 | Beneficiary's two letter state abbreviation based on the Follow Up SSA state code  |
| 255          | <i>R3CTNAME</i><br>Beneficiary's Follow Up SSA County Name                               | Char            | 25                | Beneficiary's county name based on the Follow Up SSA county code   |
| 256          | <i>R3ZIPCOD</i><br>Beneficiary's Follow Up ZIP Code                                      | Char            | 9                 | Beneficiary's ZIP code from the Follow Up member level record  |
| 257          | <i>C3RACE</i><br>Beneficiary's Baseline Race   | Num             | 3                 | Beneficiary's race from the Baseline member level record. This information is derived from CMS' EDB.<br>0 = Unknown<br>1 = White<br>2 = Black<br>3 = Other<br>4 = Asian<br>5 = Hispanic<br>6 = North American Native |

| VAR # | VARIABLE NAME / DESCRIPTION   | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|---|----------|------------|--|
| 258   | <i>C3GENDER</i><br>Beneficiary's Baseline Gender (CMS)                          | Num      | 3          | Beneficiary's gender from the Baseline member level record. This information is derived from CMS' EDB.<br>1 = Male<br>2 = Female   |
| 259   | <i>C3EDOB</i><br>Beneficiary's Baseline Date of Birth                           | Num      | 8          | Beneficiary's date of birth (DOB) from the Baseline member level record. This information is derived from CMS' EDB.<br>MMDDYY10. format  |
| 260   | <i>C3ESRDID</i><br>Beneficiary's Baseline ESRD Status                           | Num      | 3          | Beneficiary's End Stage Renal Disease (ESRD) status at Baseline. This information is derived from CMS' EDB.<br>0 = No ESRD<br>1 = ESRD   |
| 261   | <i>C3INSTUT</i><br>Beneficiary's Baseline Institutional Status                  | Num      | 3          | Beneficiary's institutional status at Baseline. This information is derived from CMS' EDB.<br>0 = Out of institution<br>1 = Institutionalized<br>2 = Eligible for nursing home care                                      |
| 262   | <i>C3HOSPIC</i><br>Beneficiary's Baseline Hospice Status                        | Num      | 3          | Beneficiary's hospice status at Baseline. This information is derived from CMS' EDB.<br>0 = No hospice start date present<br>1 = Hospice start date present  |
| 263   | <i>C3MEDICD</i><br>Beneficiary's Baseline Medicaid Status                       | Num      | 3          | Beneficiary's Medicaid status at Baseline. This information is derived from CMS' EDB.<br>0 = Out of Medicaid<br>1 = In Medicaid  |
| 264   | <i>C3RSENT</i><br>Beneficiary's Baseline Reason for Entitlement                 | Num      | 3          | Beneficiary's reason for entitlement at Baseline. This information is derived from CMS' EDB.<br>10 = Aged without ESRD<br>11 = Aged with ESRD<br>20 = Disabled without ESRD<br>21 = Disabled with ESRD<br>31 = ESRD only |
| 265   | <i>C3NMCOMP</i><br>Baseline Survey:<br>Name of Person Completing Question (Q56) | Char     | 51         | Beneficiary's response to Q56 from the <i>Cohort III Baseline</i> survey:<br><i>What is the name of the person who completed this survey form?</i>   |
| 266   | <i>R3RACE</i><br>Beneficiary's Follow Up Race                                   | Num      | 3          | Beneficiary's race from the Follow Up member level record. This information is derived from CMS' EDB.<br>0 = Unknown<br>1 = White<br>2 = Black<br>3 = Other<br>4 = Asian<br>5 = Hispanic<br>6 = North American Native    |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES   |
|-------|--|----------|------------|---|
| 267   | <i>R3GENDER</i><br>Beneficiary's Follow Up Gender                                | Num      | 3          | Beneficiary's gender from the Follow Up member level record. This information is derived from CMS' EDB.<br>1 = Male<br>2 = Female   |
| 268   | <i>R3EDOB</i><br>Beneficiary's Follow Up Date of Birth                           | Num      | 8          | Beneficiary's date of birth (DOB) from the Follow Up member level record. This information is derived from CMS' EDB.<br>MMDDYY10. format  |
| 269   | <i>R3ESRDID</i><br>Beneficiary's Follow Up ESRD Status                           | Num      | 3          | Beneficiary's ESRD status at Follow Up. This information is derived from CMS' EDB.<br>0 = No ESRD<br>1 = ESRD   |
| 270   | <i>R3INSTUT</i><br>Beneficiary's Follow Up Institutional Status                  | Num      | 3          | Beneficiary's institutional status at Follow Up. This information is derived from CMS' EDB.<br>0 = Out of institution<br>1 = Institutionalized<br>2 = Eligible for nursing home care                                      |
| 271   | <i>R3HOSPIC</i><br>Beneficiary's Follow Up Hospice Status                        | Num      | 3          | Beneficiary's hospice status at Follow Up. This information is derived from CMS' EDB.<br>0 = No hospice start date present<br>1 = Hospice start date present  |
| 272   | <i>R3MEDICD</i><br>Beneficiary's Follow Up Medicaid Status                       | Num      | 3          | Beneficiary's Medicaid status at Follow Up. This information is derived from CMS' EDB.<br>0 = Out of Medicaid<br>1 = In Medicaid  |
| 273   | <i>R3RSENT</i><br>Beneficiary's Follow Up Reason for Entitlement                 | Num      | 3          | Beneficiary's reason for entitlement at Follow Up. This information is derived from CMS' EDB.<br>10 = Aged without ESRD<br>11 = Aged with ESRD<br>20 = Disabled without ESRD<br>21 = Disabled with ESRD<br>31 = ESRD only |
| 274   | <i>R3NMCOMP</i><br>Follow Up Survey:<br>Name of Person Completing Question (Q56) | Char     | 51         | Beneficiary's response to Q56 from the <i>Cohort III Follow Up</i> survey:<br><i>What is the name of the person who completed this survey form?</i>   |
| 275   | <i>P3EHDOD</i><br>Date of Death  | Num      | 8          | Beneficiary's date of death (DOD). This information was obtained from CMS in April 2003.<br>MMDDYY10. format  |

| VAR # | VARIABLE NAME / DESCRIPTION  | VAR TYPE | VAR LENGTH | ADDITIONAL INFORMATION AND VALID VALUES  |
|-------|--|----------|------------|--|
| 276   | <i>C3AGE</i><br>Beneficiary's Age at Baseline                            | Num      | 8          | Beneficiary's age at Baseline. This variable was calculated by subtracting the Baseline date of birth ( <i>C3EDOB</i> ) from the date the Baseline survey was completed (with missing values imputed, <i>C3ESVDT2</i> ), and dividing the result by 365.25.  |
| 277   | <i>R3UNIQID</i><br>Unique Beneficiary ID                                 | Char     | 6          | Unique identification number assigned to each beneficiary in the analytic sample that was included in the M+CO data files (1 to 85,814). This ID will match the unique beneficiary ID that was assigned in the <i>Cohort III</i> Performance Measurement Data Files that were distributed to the M+COs.<br><i>Note: beneficiaries who disenrolled from the plan subsequent to completing the Baseline survey are not included in the M+CO file, however, they were included in the calculation of the performance measurement results.</i> |
| 278   | <i>P3PMRIND</i><br>Performance Measurement Sample Distribution Indicator | Num      | 8          | Indicates status of the record in this analytic file<br>1 = Respondent<br>2 = Non-Respondent<br>3 = Invalid<br>4 = Dead<br>5 = Disenrolled   |