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**National Long-Term Care Survey:  
1982, 1984, 1989, 1994, 1999, and  
2004**

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Technical Report

for

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**Revised Cross Sectional Weights for the National Long-Term Care Survey:  
Volume I: Technical Approach**

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## Background

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The National Long Term Care Survey (NLTC) is a longitudinal study of the U.S. population of living Medicare enrollees of age 65 and older, which was first conducted in 1982 and then repeated in 1984, 1989, 1994, 1999, and 2004. The initial 1982 survey screened a national sample of enrollees age 65 and older as of its reference date of April 1, 1982 but restricted detailed data collection to noninstitutionalized disabled enrollees. Enrollees were defined to be disabled when they were unable to do one or more activities of daily living (ADL)<sup>1</sup> without help from another person or special equipment or they could not do instrumental activities of daily living (IADL)<sup>2</sup> and the associated condition(s) prevented these activities for three months or longer. Beginning with the 1984 survey cycle, detailed interviews were conducted with the institutionalized as well as the disabled enrollees. These subsequent surveys based their samples on old cohorts selected for one or more of the previous survey cycles, together with a new cohort sample of enrollees that had become age 65 after the April 1 reference date of the most recent survey cycle. The NLTC collected detailed data on disability, functional limitations, medical conditions, demographic characteristics and family composition. The 1984 to 2004 NLTC were funded by grants from the National Institute on Aging and other Federal agencies made to the Center for Demographic Studies (CDS) at Duke University, which subcontracted data collection to the U.S. Bureau of the Census. Survey data have been linked to administrative data from the Centers for Medicare and Medicaid Services (CMS) containing vital statistics and Medicare service use. Researchers may obtain restricted access survey data sets by applying to the National Archive of Computerized Data on Aging at <http://www.icpsr.umich.edu>.

The impetus for this project was inconsistent results for changes in disability rates over time between estimates computed using the publicly released cross-sectional weights versus those published by Manton, Gu, and Lamb (2006).<sup>3</sup> The trends observed in the two sets of estimates were different, particularly for 2004 leading to uncertainty about the accuracy of the 2004 NLTC cross sectional weights as well as uncertainty about the consistency of the weighting process across time. In addition, the NLTC had poststratified its weights using Census derived population counts of the entire U.S. population, not just the population of Medicare enrollees. This poststratification made the weights unsuitable for use with the Medicare linked data which are applicable only

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<sup>1</sup> ADL activities were defined as eating, getting into and out of chairs or beds, walking around inside, going outside, dressing, bathing, getting to the bathroom, using the toilet, and controlling bowel movements and urination.

<sup>2</sup> IADL activities included preparing meals, doing laundry or light housework, shopping for groceries, managing money, taking medicine, and making telephone calls. An enrollee was not considered to have an IADL disability when they were able to do the activity but did not do it.

<sup>3</sup> Kenneth G. Manton, XiLiang Gu, and Vicki L. (2006). Change in chronic disability from 1982 to 2004/2005 as measured by long-term changes in function and health in the U.S. elderly population. PNAS, vol. 103, no. 48, pp. 18374-18379.

for Medicare enrollees. Further, the NLTCs poststratified separately for the institutionalized versus the noninstitutionalized aged population and deriving accurate, consistent population counts over time for this breakdown from Census data is difficult given changes in Census procedures and the advent of assisted living housing arrangements.

The NLTCs developed survey weights based upon a target population definition that included all age 65 and older U.S. residents, not just those that were Medicare enrollees. This project was charged with developing a new set of cross sectional weights for the 1984 to 2004 survey cycles that are accurate and consistent across survey cycles and that reflect a target population of Medicare enrollees age 65 and older as of each survey cycle's reference date of April 1. Comparable weights for the 1982 survey cycle could not be developed as the data needed to develop the weights were unavailable for 1982 NLTCs survey nonrespondents. The final cross sectional weights we created are for use to represent the entire target population of responding, eligible Medicare enrollees (see below for eligibility definition). For the institutionalized and the disabled who respond, detailed interview data are available for all survey cycles. For the healthy enrollees (those nondisabled and noninstitutionalized), the weights are for use with the screener data for the healthy population who completed the screener. Analysis weights were not developed for the screener interview separately, the caretaker interviews, the next of kin interviews, or the deceased interviews. Such weights can easily be developed using the output data sets we created, however.

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## The NLTCS Target Population Redefined

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For each survey cycle, we created cross sectional weights based upon a standard definition of the target population that only differs in the reference date for the survey cycle. This definition was specified as:

All Medicare enrollees age 65 and older and living in eligible housing stock in the United States (the 50 States and District of Columbia) on each cycle's reference date of April 1.

Some specific definitions are as follows:

Medicare enrollee: Individuals receiving Railroad Retirement benefits are included as well as Medicare enrollees. The individual must have been enrolled prior to the April 1 reference date and their 65<sup>th</sup> birthday must also have occurred prior to the April 1 reference date.<sup>4</sup>

Living in the U.S.: The enrollee must be currently alive or their date of death must have occurred on or after the reference date of April 1. (That is, the enrollee was alive for some part, if not all, of April 1.)<sup>5</sup>

Eligible Housing Stock: The 1982 NLTCS target population excludes all residents in institutional housing. The subsequent five survey cycles include residents of long term care institutions such as nursing homes and group care institutions but the documentation for some cycles indicates that residents of correctional institutions and in military housing were excluded from the survey. Our definition of eligible housing stock was driven by the treatment of such residences over the 1984 to 2004 survey cycles.

The NLTCS traditionally assumed that target population membership was known for all sampled cases at the time of weighting. In particular, nonrespondents were assumed to be alive and living in the U.S. This appears reasonable given that NLTCS staff had access to CMS data to verify such details with a sufficient time lag to allow the administrative data to be up to date.

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<sup>4</sup> Note that the 1989 NLTCS had April 1, 1988 as its reference date. To avoid confusion, we refer to it as the 1989 NLTCS but its target population is defined as of April 1, 1988.

<sup>5</sup> Date of death did not impact on our weighting procedure so we did not distinguish between deaths before and after the April 1 reference date.

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## Frame Construction and Enrollee Selection

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The sample design for the NLTCs can be described as a stratified, two-stage clustered design. The first stage of selection occurred prior to the 1982 NLTCs and involved the selection of primary sampling units (PSUs), which were counties or groups of adjacent counties. The NLTCs was piggybacked upon a pre-existing sample of 375 strata, each with one sampled PSU, selected for use by several Census Bureau general population surveys and referred to as the “A-design sample.” These A-design PSUs were selected from an area frame spanning the entire land area of the United States (the 50 states plus the District of Columbia). For the first stage of NLTCs sampling, the 375 A-design strata were collapsed into 173 NLTCs first-stage strata based upon their estimated 1978 Medicare enrollee population age 65 and older and then one PSU was selected for inclusion in the NLTCs from each NLTCs first-stage stratum.

The second stage of sampling involved the selection of systematic samples of Medicare enrollees selected from list frames constructed for each sampled PSU. All cycles of the NLTCs sampled Medicare enrollees from the 173 PSUs. List frames of Medicare enrollees were created to select enrollees residing in the sampled PSUs. The 1982 NLTCs selected its sample based upon Medicare enrollees age 65 and older as of April 1, 1982. Each subsequent NLTCs selected a sample of new cohorts entering the target population since the last survey cycle and then subsampled from the old cohorts selected for the previous NLTCs survey cycles. This selection was done within study groups which were second-stage strata defined based upon the enrollees’ age and their assignment (or lack thereof) to community and institutional interviews in the previous survey cycle.

### *Initial Enrollee Sample Selection*

For each survey cycle, enrollees were sampled from a frame of Medicare enrollees living in the sampled primary sampling units (PSUs) constructed for use in selecting the Long Term Care (LTC) samples. The 1982 cycle initiated sampling by selecting enrollees age 65 and over as of and including March 31, 1982. Each subsequent cycle sampled new cohorts turning 65 on April 1 of the previous survey cycle through March 31 proceeding the current cycle’s reference date. The initial selections into the NLTCs longitudinal survey during each survey cycle are referred to as “new cohorts” in this report.

### *Old Cohort Sample Retention*

Each survey cycle after 1982 had two components: (1) old cohorts selected from the eligible sampled enrollees for the previous survey cycle and (2) new cohorts selected using the procedures above from enrollees entering the Medicare population after the reference date for the previous survey cycle. Selection of old cohorts for each survey cycle was similar across survey cycles. Old cohorts that screened in as eligible for the detailed interview in a particular survey cycle were automatically included in the old cohort sample for the subsequent survey cycle. Nonrespondents assigned for the detailed interview were included in the old cohort sample as well as respondents. Then a

subsample was taken of old cohorts who had not been scheduled for a detailed interview in the most recent survey cycle, either because they screened out as nondisabled and noninstitutionalized or were screening nonrespondents.<sup>6</sup> This portion of the old cohort population is often referred to as the “healthy” old cohorts.

Enrollees were automatically designated for detailed interviews in each survey cycle when they reported being disabled or institutionalized in the screening for the current survey cycle or when they had been assigned for a detailed interview in the previous survey cycle. The remaining cases, hereafter referred to as “healthy” enrollees, were either screening nonrespondents or they had not been determined to be disabled or institutionalized in the current survey cycle or had not been assigned for a detailed interview in the previous survey cycle.

### *Sample Design Changes over Time*

The 1982 NLTCs differed from all subsequent survey cycles in that the detailed interview was restricted to the noninstitutionalized disabled population only. Beginning with the 1984 NLTCs, two types of detailed interviews were administered: (1) a community interview administered to the noninstitutionalized population (initially to the disabled only but later expanded to the nondisabled population) and (2) an institutional interview administered for enrollees living in institutions.

Beginning in the 1989 survey cycle, subsampling of the healthy old cohorts from the previous cycle only occurred for those healthy old cohorts who were less than 75 years old on the survey’s reference date. Age 75 and older cohorts classified as healthy or as screening nonrespondents in 1984 were brought into the sample with certainty beginning in 1989 for screening and interviewed if so determined by the survey protocol. Note that age 75 and older old cohorts classified as healthy in the 1982 survey and subsampled out in 1984 were not brought back into the sample for 1989 or any later survey cycle.

Additional design changes were made in 1994. Previously, each survey cycle had subsampled those old cohorts classified as healthy in the previous survey cycle or failing to respond to screening. (As noted above, beginning with the 1989 NLTCs the subsampling of healthy old cohorts was restricted to those less than 75 years old.) Beginning in 1994, each survey cycle resurrected the subsampled out enrollees from the previous cycle and returned them to the sample for screening. For the 1994 survey, the 1982 old cohorts subsampled out in 1984 were not resurrected (these cases were unaffected by the 1989 design change) but 1982 and 1984 old cohorts subsampled out in 1989 were returned to the 1994 NLTCs sample.<sup>7</sup> These cases were assigned for detailed interview if so determined by the survey protocol.

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<sup>6</sup> These screening nonrespondents also included some enrollees assigned to detailed interviews in cycles prior to the most recent cycle, perhaps because they were classified as screening nonrespondents in the most recent cycle.

<sup>7</sup> The 1999 NLTCs brought back the healthy 1989 old cohorts subsampled out of the 1994 NLTCs. The 2004 NLTCs brought back the healthy 1994 old cohorts subsampled out of the 1999 NLTCs.

In 1994, the NLTCS also began subsampling the “healthy” enrollees and administered the detailed interview for the subsampled cases in that survey cycle and in all subsequent survey cycles, regardless of their institutionalization or disability status. Healthy enrollees were again defined to be enrollees that had not been screened as disabled or institutionalized in the current survey cycle or assigned for a detailed interview in the previous NLTCS survey cycle.

As the last change in 1994, the NLTCS added a supplementary sample of Medicare enrollees age 95 and older as of the survey’s reference date of April 1, 1994. Healthy older cohorts age 95 and older and subsampled out of the NLTCS in the 1984 survey cycle were not resurrected and given a chance for inclusion. The 1999 NLTCS retained the surviving members of this supplementary sample and added another supplementary sample of Medicare enrollees age 95 and older as of the survey’s reference date of April 1, 1999. The 2004 NLTCS retained the surviving members of both supplementary samples and added another supplementary sample of Medicare enrollees age 95 and older as of the survey’s reference date of April 1, 2004. These cases were screened and then interviewed if so determined by the survey protocol.

Finally, the 2004 NLTCS implemented disability screening for all sampled enrollees, except for the institutionalized, not just for those enrollees classified as healthy in the previous survey cycle<sup>8</sup> or entering the 2004 survey as new cohorts. The NLTCS also applied a much stricter definition in determining which enrollees should be considered as institutionalized for screening purposes.

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<sup>8</sup> Enrollees were classified as “healthy” if they were screening nonrespondents or they had not been assigned to a detailed interview in the previous survey cycle.

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## Base Weight Verification and Correction

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As the first step in developing the revised cross sectional weights for the NLTCs, we verified the accuracy of the sampling weights assigned to each sampled enrollee in each survey cycle. The sampling weight is calculated as the inverse of the probability of selection for the Medicare enrollee for that survey cycle. The Census Bureau refers to the sampling weight as the “base weight.” The NLTCs database records the value in a variable labeled “BASEWGT” except for the 1989 survey where the sampling weight is recorded as BASICWGT.<sup>9</sup>

### *Verification of the Base Weight Specifications*

Our first step was to review the weighting specifications prepared by the Bureau of the Census for each survey cycle and verify that the sampling weights had been correctly specified. This review and verification became progressively more complicated because the probability of inclusion in the survey for a particular survey cycle was dependent upon the enrollee’s classification for all previous survey cycles. Based upon a detailed review of the weighting documentation and rederivation of the sampling weights for each survey cycle, we concluded that the survey documentation for each cycle correctly defined the sampling weight for all enrollees.

Our project was concerned about consistency across survey cycles as well as accuracy. In this regard we need to mention the complications resulting from the oversampling of enrollees age 95 and older (95+) beginning in 1994. Enrollees age 95+ at the time of the 1994 survey cycle were by definition a part of the old cohort entering the survey in 1982. For the 95+ supplemental sample, the ideal solution would have been to resurrect all age 95+ enrollees that were sampled for the 1982 NLTCs and then subsampled out of the 1984 NLTCs. However, the original selections for the 1982 survey cycle were not retained in their entirety—just those sampled for the 1984 NLTCs. The 1984 NLTCs included the 1982 disabled and institutionalized with certainty but subsampled the enrollees that screened as healthy or were nonrespondents. This made it virtually impossible to calculate the probability with which an enrollee could have been selected in the original sample or if not retained in the 1984 sample have been selected for the age 95+ supplementary sample. As both samples represented the age 95+ population, the decision was made to derive independent probabilities of selection for each sample and then combine the samples with a compositing factor that added to 1 across the samples of age 95+ enrollees. The 1994 NLTCs derived the factor so as to ensure the resultant weights were as equal as possible across the two samples of age 95+ enrollees.<sup>10</sup> The 1999 NLTCs selected another sample of age 95+ enrollees and retained the 1994 supplementary sample that was now age 100+. The compositing approach was again used to develop weights for enrollees age 95-99 and enrollees age 100+ using a variation

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<sup>9</sup> Another variable on the 1989 database is labeled BASEWGT, but this variable is not the 1989 sampling weight.

<sup>10</sup> This approach had the effect of minimizing the design effect for unequal weighting for the age 95+ estimates.

of the weight equalization approach used in 1994. For 2004, a different approach was used to combine the samples based upon deriving compositing factors that minimized the variance of survey estimates. We considered but decided not to revert back to the weight equalization approach used in 1994 and 1999 to derive sampling weights for 2004. Instead we decided to retain the sampling weights derived for 2004, recognizing that it should not have led to radically different weighting factors.

#### *Correction of Erroneously Recorded Base Weights*

Our next step was to ensure that the base weights for each enrollee and each survey cycle *as recorded on the survey databases* agreed with the value recorded in the survey documentation. Doing this check required knowledge of the enrollee's survey status and age for all prior NLTCs survey cycles. The sampling weights were recorded correctly for all sampled cases in the 1984 and 1989 surveys as BASEWGT84 and BASICWGT, respectively.<sup>11</sup>

For the 1994 NLTCs, we found 3,507 enrollees with 1994 study group codes of 8 (SIC94=8), indicating that they had been returned to the sample in 1994 after having been subsampled out in 1989. The 1989 study group (SIC89) was correctly recorded in the database as 0 for not sampled but the 1984 study group (SIC84) was incorrectly shown as 0 as well. The 1994 survey documentation indicated that the base weights were derived based upon assumptions about their SIC84 value. Instead of making such assumptions, we merged on the 1984 study group variable from the 1984 database. Using the exact SIC84 values, we discovered that 30 records had been assigned erroneous values for their 1994 base weight.<sup>12</sup>

The error found in the 1994 base weights was repeated in the 1999 NLTCs database but only 19 records with the 1984 study group code incorrectly recorded as 0 had erroneous values for the 1999 base weight. More serious was the incorrect recording of the 1999 NLTCs base weight for enrollees that were subject to subsampling in 1994. The subsampled out enrollees were returned to the sample for the 1999 NLTCs but the weights for the 1994 subsampled in enrollees did not have the 1994 subsampling factor removed from their 1999 base weight. This second source of error in the 1999 NLTCs resulted in 1,630 records with erroneous base weights.<sup>13</sup>

The error found in the 1994 base weights again occurred for the 2004 NLTCs database but only 2 records with the 1984 study group code incorrectly recorded had erroneous

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<sup>11</sup> For 1989 we observed apparent weight discrepancies for three records but these were due to discrepancies in the age variable not the BASICWGT variable.

<sup>12</sup> Of these 30 records, 29 records were associated with enrollees that had been screened as disabled in 1982 and assigned for detailed interviews or had been discovered to be institutionalized at the time of the 1982 screening. For reasons that are unclear, the 1989 NLTCs combined these 29 cases with the study group for healthy old cohorts and they were subsampled out of the 1989 NLTCs.

<sup>13</sup> In addition we noted that 41 enrollees that had been assigned to community or institutional detailed interviews in 1984 and reclassified into the healthy study group (5 or 7) in 1994 were also classified as a part of the healthy study group in 1999. Unlike other enrollees that were assigned to detailed community or institutional detailed interviews in 1984, these 41 enrollees were required to complete the screener and be classified as disabled or institutionalized before a 1999 detailed interview was administered.

values for the base weight. The more serious 1999 problem of inappropriate inclusion of the subsampling fraction was recognized and correctly dealt with in the 2004 database. However, for reasons that are unclear, 29 of the 2,329 enrollees that entered the survey in 1999 (SIC99=6) and were classified in the healthy study group in 2004 (SIC04=5) had erroneous values recorded for their 2004 base weight.<sup>14</sup>

Finally, we observed another base weight error associated with the missing values for SIC84 in the 1994 to 2004 databases. Enrollees who were members of the main NLTCs sample were ineligible for selection for the supplementary samples. However, a few enrollees that were members of the 1984 NLTCs sample and had been subsampled out in 1989 were erroneously included in the age 95+ supplementary samples with the base weight for that sample instead of being returned to the main sample in 1994 when subsampling was eliminated for age 75+ individuals. We retained these age 95+ enrollees in the sample but revised their base weights to the value that reflected their main sample membership.

Before proceeding to the next step, a revised base weight was defined for the 1994 to 2004 surveys with all erroneous values corrected.

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<sup>14</sup> Our base weight checks began using the I\_AGE variable which was labeled as age as of April 1, 2004. We found many more discrepancies. Further investigations revealed that this was not the variable created for sampling and weighting and that instead an age category variable was created using the enrollee's birth date.

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## Identification and Treatment of Screener Nonresponse

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The screener was the first data collection instrument administered. Its primary purpose was to update contact information and to determine eligibility for the detailed interview. Screening was conducted by telephone whenever possible, with in person visits as necessary to locate enrollees and convert potential nonrespondents. For our development of NLTCs cross sectional weights, enrollees were classified as ineligible for screening when they were deceased or living outside the U.S. or in ineligible U.S. housing stock (correctional institutes or military housing). Enrollees still living within the U.S. but who had moved outside of the interviewing limit were incorrectly classified as ineligible by the Census Bureau; we reclassified these cases as nonrespondents.<sup>15</sup>

For old cohorts that had been assigned for detailed interviews in the previous survey cycle, the screening ended once the enrollee had been located and found to be living within the U.S. Questions were asked in the telephone screener to find out whether they were institutionalized or noninstitutionalized, but disability screening questions were not asked except in the 2004 survey cycle. In some cases even the limited screening was skipped and the enrollees were sent directly to the detailed interview.

For new cohorts and the remaining old cohorts that had not been assigned for a detailed interview in the previous survey cycle, the screener was also used to determine if a detailed interview was to be conducted. First, the screener determined if the enrollee was institutionalized based upon respondent reports at their Medicare address of record for new cohorts or their last known address for old cohorts. If institutionalized, the enrollee was automatically assigned for a detailed interview. If noninstitutionalized, the Activities of Daily Living (ADL) and the Instrumental Activities of Daily Living (IADL) sections of the screener were administered to determine if the enrollee was classified as disabled for data collection purposes and hence should be assigned for a detailed interview. Screener nonresponse for these enrollees not automatically assigned for detailed interviews meant that we cannot determine if the enrollee was institutionalized or disabled and hence should have been assigned for a detailed interview.

### *Screening Inconsistencies across Survey Cycles*

Consistency across survey cycles was impacted by changes in the screening approach over time. In 1984, for instance, enrollees who were deceased had family members or caretakers interviewed on their behalf. The deceased were combined with the nondeceased in developing screening and detailed interview weights and counted as respondents when completed screeners and detailed interviews were obtained for them.

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<sup>15</sup> These interviewing limits were set in terms of the travel distance or travel time the interviewer would need to complete an interview with a sampled enrollee that had moved since they were initially sampled or last interviewed.

For consistency's sake, we reclassified the deceased to be ineligible for screening in all survey cycles.<sup>16</sup>

Identification of the institutionalized changed the most across survey cycles. In general, institutional status was determined first and if institutionalized the enrollee was sent directly to the detailed interview, skipping the screening for ADL and IADL disabilities. The 1984 screener only included questions to collect institutionalization status for enrollees who had moved from their Medicare address of record, defining an institution as a nursing, convalescent, or rest home; a home for the aged or needy, or a mental or other institution. The 1989 and 1994 screeners included the questions for non-residents at the address of record but added a check box for the interviewer to record that the enrollee being screened resided in an institution. The 1999 screener also included the questions for non-residents but changed the interviewer check box by defining an institution to be a nursing home. The 2004 screener used a much more specific definition of an institution for both types of enrollees requiring that the institution provide substantial nursing care or have health professionals on duty every day at the address. As we will discuss later, the detailed interview applied a rigorous and consistent definition across survey cycles in defining who should have had the institutional detailed interview conducted. The remaining screened in cases were assigned to the community detailed interview. Hence, the differences in screening definitions used for the institutionalized impact on which enrollees had the community detailed interviews administered. Analysts should be aware that some enrollees may have been classified as institutionalized in screening and hence skipped the disability screening and then later had the community interview conducted which could indicate that they were nondisabled.

Beginning in 1994, the NLTCs introduced a Healthy Subsample so that a subsample of the noninstitutionalized and nondisabled enrollees that would have been screened out as ineligible for the detailed interview were instead assigned to have a detailed interview administered but with the detailed questions on disability skipped. In subsequent survey cycles, the NLTCs treated this Healthy Subsample exactly the same in sampling and in data collection as those cases that had been assigned for a detailed interview due to their institutionalization or disability. That is, they were stratified into the same study groups and had only the abbreviated screening implemented (i.e., no screening for ADL or IADL disabilities) and were automatically assigned for a full detailed interview, which included disability questions. Our project assignment was to use as consistent an approach for weight development as possible across survey cycles. Therefore, we decided to treat the Healthy Subsample cases the same as any other enrollees from the same study group. In the first survey cycle in which they were selected for the Healthy Subsample, we treated these cases the same as the non-sampled cases, which meant that they were labeled as "Screened Out" if they had not been assigned to a detailed interview in the previous survey cycle and if their current screener responses indicated they were

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<sup>16</sup> Analysts interested in analyzing interview data collected about deceased enrollees will need to develop a nonresponse adjusted weight for the deceased. The CMS linked data can be analyzed using the weights we have prepared.

noninstitutionalized and nondisabled.<sup>17</sup> In the subsequent survey cycles, we treated the Healthy Subsample cases the same as the other cases assigned to detailed interviews in the previous survey cycle.

The 2004 screener was quite different from all previous screeners. As discussed earlier, a much more exact definition was used to classify enrollees as institutionalized. This screener definition of an institution was essentially the same as the definition used by all the survey cycles to determine the enrollees that were to have the institutional interview administered. Enrollees who had moved were followed and institutionalization data collected directly for them rather than the indirect approach of previous survey cycles where family members at their old address were asked to describe the enrollee's current type of housing. In addition, the ADL and IADL questions were administered for all enrollees whenever feasible, regardless of whether they had previously been assigned for detailed interviews. For the sake of consistency, we defined screener nonresponse based upon the same data requirements imposed by previous survey cycles.

#### *Resolution of Discrepant Screening Data*

Examination of the screening data revealed that the data contained keying errors and other inconsistencies that made it difficult to determine whether eligible enrollees had completed the screening and been eligible for the detailed interview. Determining eligibility for screening was also difficult because screening nonresponse and eligibility status was recorded separately for the telephone and personal visit modes of data collection with no outcome recorded when a particular mode of screening was skipped, when screening was considered completed, and for other reasons. Hence, missing values for these two variables had more than one meaning. We had to have one variable with a definitive accurate disposition status for all cases. We first combined the two mode-specific outcomes to create a single variable (surveystat) for that survey cycle to represent what we believed to be the final outcome using the personal visit outcome when present and then the telephone outcome otherwise.

The NLTCs screening data contained keying errors and data inconsistencies for the key variables defining ADL and IADL disability as well as missing data that left disability status undefined. We had to have the institutionalization and disability status correctly defined in order to produce accurate weights. For this reason, we created three recodes to record whether the screening data indicated that the enrollee was classified as institutionalized (SCINSTxx), ADL disabled (SCADLxx), or IADL disabled (SCIADLxx) for each survey cycle (xx = 84, 89, 94, 99, and 04).

A comparison of the screening disposition codes with the SCINSTxx, SCADLxx, and SCIADLxx variables indicated that the screening disposition codes, even when combined to create the surveystat recode, did not always accurately define response status. As a consequence, we used the four recodes to create a revised screening disposition code (SCDISPxx) for each survey cycle recording eligibility and response status.

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<sup>17</sup> Analysts who wish to use the detailed interview data collected for the Healthy Subsample must zero out the weights for non-sampled healthy cases and correct for detailed interview nonresponse from screening respondents selected for the Healthy subsample.

Our next task was to compare our revised screening disposition code for each survey cycle with the NLTCs disposition code for the detailed interview (not defined for respondents and in most cycles not for screened out cases) and the detailed weight (non-zero only for enrollees classified as detailed interview respondents). We discovered that some enrollees had completed screening but apparently had not been sent on for detailed interview and other enrollees had partially or totally missing screening data but had been sent on for detailed interviews. Rather than redefine the screener disposition variable, we defined a revised screener outcome code (SCOUTxx) for each survey cycle that accounted for the various reclassifications that needed to be made to screener response status.

In defining SCOUTxx, enrollees that our recodes indicated as having completed screening but had not been sent on for a detailed interview kept their classification as screening respondents (but later would be classified as detailed interview nonrespondents). Enrollees with undefined screening-derived disability status due to totally missing screening data were reclassified as screening respondents if they had been assigned to a detailed interview and had actually completed that interview.

Some enrollees with nonzero detailed weights (implying that they were detailed interview respondents) had missing disability data in the detailed interviews for 1984 and in 1999. We created an indicator variable labeled RECLASS that was set to 1 for cases with a nonzero detailed weight where the detailed interview had not been completed although the detailed interview weight and outcome codes indicated the interviews were complete.

Enrollees with partial screeners that left disability status undefined due to the level of missing item data had SCOUTxx defined based upon the NLTCs treatment of the case. If the enrollee with the partial screener had been labeled as screened out (i.e., nondisabled), we accepted that decision and defined the SCOUTxx outcome as screened out. If the enrollee with the partial data had been labeled as screened in (i.e., disabled), we labeled the enrollee as screened in only if he/she completed the full detailed interview. In 1994, some enrollees with partial screeners were labeled as screened in but had abbreviated detailed interviews accidentally administered. (These abbreviated interviews did not include the detailed disability questions and were intended only for individuals in the Healthy Subsample who indicated in screening that they were not ADL or IADL disabled.) Enrollees with partial screening data and labeled as screened in but with only abbreviated detailed interviews administered were assigned a SCOUTxx value of screening nonrespondents.

The introduction of the Healthy Subsample beginning in 1994 added further complexity to the definition of the revised screening outcome variable SCOUTxx. Some enrollees selected for the Healthy Subsample had totally missing disability data but had been sent on for detailed interviews. These enrollees had a SCOUTxx value assigned of completed screener when they completed the full detailed interview including the disability questions. Otherwise they were labeled as screening nonrespondents.

Finally, we needed a race variable for forming weighting classes and it had to be defined for screening nonrespondents as well as screening respondents. Race from the CMS master control file was suitable for that use but was recorded only for the 1984 to 1994 survey cycles. We needed such a variable for all survey cycles and hence defined race as follows:

- For 1984 we used the variable RACEMCL found on the cross-sectional file.
- For 1989 and 1994 we used the variable HCFA\_RACE found on the cross-sectional files.
- For 1999 and 2004 we extracted race from the CMS Vital Statistics files. The variable name on these files was RACE\_CODE. For cases having no value for RACE\_CODE we matched back to previous cycles to pick up the race value.

Note that cases where race was missing and could not be matched to the previous cycles were set to RACE UNKNOWN. Later in forming weighting classes, we collapsed race to create racerec defined as 1= White or Unknown Race and 2 = Black or Other Race.

The Vital Statistics files only have data for cases with positive weights which is why we still had missings after going up against the Vital Statistics files. Looking back and forth across survey cycles cleared most of the problems up so the variable was suitable for use in forming weighting classes.

#### *Screener Nonresponse Adjustment*

Our weighting strategy for screening nonresponse adjustment separated the sampled enrollees into three groups: (1) enrollees identified as ineligible for screening, (2) enrollees that had been assigned for detailed interviews in the previous survey cycle, and (3) new cohorts and old cohorts not assigned for detailed interviews in the previous survey cycle. For each group, a screening nonresponse adjustment was made that accounted for screening nonresponse by setting the weights of nonrespondents to zero and then adjusting the weights of screener respondents to recover the nonrespondent weight total. This adjustment process was done within weighting classes.

For the first group composed of screening ineligible, our weighting strategy followed that of the original NLTCs and assumed that the NLTCs had identified all screening ineligible and hence that the remaining sampled enrollees were survey eligible. Therefore, we assigned all sampled enrollees identified as ineligible for screening to a separate weighting class, as they represented a special class for which 100 percent response had been achieved.<sup>18</sup> We assigned a screening nonresponse adjustment factor of 1 (denoting 100% response) and set the screener nonresponse-adjusted weight equal to the sampling weight. Assigning weights to ineligible allows them to be studied—the deceased may be of interest. Having weights for ineligible cases also means that maximum use can be made of the Medicare linked data. In addition, they allowed us the flexibility to define a set of sample cases that match the population for which enrollee

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<sup>18</sup> Response to a survey is achieved when a sampled case has been determined to be ineligible for interview.

population counts can be obtained from the Centers for Medicare and Medicaid Services (CMS) for our later use in poststratification.

The second group, composed of old cohorts assigned to detailed interviews in the previous survey cycle, was treated similar to the survey ineligible in developing the screening weight but for a different reason. These old cohorts assigned for detailed interview in the past survey cycle were considered to be “screened in” because they were automatically eligible for a detailed interview as long as they were living in eligible housing stock. Screening nonrespondents were followed up by personal interview and the detailed interview conducted. Hence, there tended to be little screening nonresponse for those old cohorts that were automatically eligible for the detailed interview. For this reason, we decided to regard all nonresponse as occurring in the interview phase for these sampled enrollees who were assigned for detailed interviews in the previous survey cycle. Hence, a screening nonresponse adjustment factor of 1 was assigned, so the screener nonresponse-adjusted weight equals the sampling weight for each enrollee that was automatically eligible for the detailed interview.

The third and final group was composed of all enrollees newly selected for the NLTCs that survey cycle and for the subset of old cohorts that had not been assigned for a detailed interview in the previous survey cycle. Weighting classes were defined based upon variables available in the NLTCs data set for screening nonrespondents as well as screening respondents. The variables used to define the weighting classes included the second-stage stratum, original reason for Medicare entitlement (for those less than 75), sex, age group, race, and Census region.<sup>19</sup> The weighting classes were defined so that they had about 20 or more respondents and so that the resultant nonresponse adjustment was less than 2. Collapsing was implemented as needed with collapsing first over region, then over race to create a black/nonblack variable, and then over age group only if needed and only to collapse some age categories. Occasionally, classes were allowed to have less than 20 respondents to prevent excessive collapsing.

For the respondents in each weighting class, we computed a screener nonresponse adjustment to create screener nonresponse-adjusted weights that summed to the total of the sampling weights across respondents and nonrespondents belonging to that weighting class. Our first step was to define a screener response indicator variable SCRESP<sub>xx</sub> for the enrollees sampled for the survey cycle (xx – 84, 89, 94, 99, and 04), which was set to 1 for screening respondents and to 0 for screening nonrespondents. Then the screening nonresponse adjustment for the *i*th enrollee from second-stage stratum *h* and weighting class *c* in survey cycle *xx* was defined as follows:

$$SCNRADJ_{xx}(c) = \frac{\sum_{hi \in c} BASEWT_{xx}(hi)}{\sum_{hi \in c} SCRESP_{xx}(hi) * BASEWT_{xx}(hi)} .$$

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<sup>19</sup> Note that the NLTCs had used PSU in defining weighting classes for screening nonresponse adjustment (unavailable to us), second-stage stratum, original reason for Medicare entitlement, race, age group, and sex.

The numerator is the sum of the base weights for all enrollees belonging to weighting class  $c$  and the denominator is the sum of the base weights over just the respondents in weighting class  $c$ .

The screening nonresponse adjusted weight for sampled enrollee  $i$  from second-stage stratum  $h$  and from weighting class  $c$  was then defined as the product of the screening response indicator times the screening adjustment factor times the base weight or:

$$SCNRWT_{xx}(hi) = SCRESP_{xx}(hi) * SCNRADJ_{xx}(c) * BASEWT(hi) .$$

Multiplication by the screening response indicator ensured that screener nonrespondents were assigned a nonresponse-adjusted screener weight of zero. We also set the screener nonresponse adjustment factor to zero for screening nonrespondents.

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## Identification and Treatment of Interview Nonresponse

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The next step was to account for detailed interview nonresponse via a weighting class adjustment to the weights of those enrollees who had completed screening. Our weighting strategy for detailed interview nonresponse adjustment separated the sampled enrollees into four groups: (1) ineligible enrollees identified during screening or the detailed interview as dead or living outside the U.S. or in military or correctional housing, (2) screening nonrespondents for whom institutional and disability status was unknown, (3) screening respondents who screened out as being noninstitutionalized and nondisabled, and (4) eligible enrollees assigned for detailed interviews based upon screening responses indicating that they are institutionalized or disabled or based upon their assignment to a detailed interview in the previous survey cycle. For each group, a detailed interview nonresponse adjustment was made that accounted for screening nonresponse by setting the weights of nonrespondents to zero and then adjusting the weights of interview respondents to recover the nonrespondent weight total. This adjustment process was done within weighting classes.

### *Definition of Interview Response Status*

Our first step was to define a detailed interview disposition recode DEDISPxx that identified the eligibility and response status for all sampled enrollees. Using the screening outcome code SCOUTxx for that survey cycle, the originally assigned interview outcome codes, and the RECLASSxx defined earlier, we defined DEDISPxx as follows:

- DEDISPxx =
- 1 Respondent to Detailed Interview
  - 2 Nonrespondent to Detailed Interview
  - 3 Ineligible for Detailed Interview
  - 4 Screened In : Not Sent for Detailed Interview
  - 5 Ineligible for Screening Interview
  - 6 Screened Out : Noninstitutionalized and Nondisabled
  - 7 Labeled as Detailed Respondent but Required Disability Data Missing
  - 8 Screening Nonrespondent

The first group—enrollees ineligible for data collection due to death or their residence outside the U.S. or in military or correctional residences—can be identified by a DEDISPxx code of 3 if their ineligibility was discovered during the detailed interview and 5 if discovered during screening. Screening was not conducted immediately prior to administering the interview so enrollees could become ineligible for interview after the

screeener due to subsequent death, incarceration, or emigration outside the U.S. Again for this data collection, the Census Bureau assumed that all ineligibles were identified based upon updates received from CMS. Our specifications also assumed that all ineligibles were identified and hence that all detailed interview nonrespondents were eligible for interview.

The second group—screening nonrespondents—can be identified by DEDISPxx=8. Nonresponse to screening was accounted for in the screening adjustment so these cases have screener nonresponse adjusted weights of zero as well as interview nonresponse adjusted weights of zero.

The third group—enrollees that screened out as noninstitutionalized and nondisabled—can be identified by a DEDISPxx code of 6. Beginning in 1994, enrollees screened as noninstitutionalized and nondisabled, referred to as “healthy enrollees,” were subsampled for inclusion in the detailed interview as the Healthy Subsample. For consistent weights across all survey rounds, the weights we developed treated the subsampled healthy enrollees as being screened out if they completed the screener and did not report institutionalization or an ADL or IADL disability. That is, all new cohorts that screening indicated to be noninstitutionalized and nondisabled (healthy enrollees), regardless of their inclusion in the healthy subsampling that occurred in the 1994 to 2004 rounds, were treated for weighting purposes as screened out with no detailed interview assigned and all have their nonresponse-adjusted interview weight equal to their nonresponse adjusted screener weight.

The fourth group is composed of those cases that were assigned for detailed interview because screening indicated they were institutionalized or disabled or they had been assigned for detailed interviews in the previous survey cycle. These screened in cases can be identified by DEDISPxx values of 1, 2, 4, and 7. Only DEDISPxx = 1 cases completed the detailed interview. Detailed interviews were attempted with DEDISPxx = 2 cases. DEDISPxx = 4 cases were screened in as institutionalized or disabled but were not sent on for detailed interviews. Some of these screened in cases were enrollees identified as institutionalized who were not followed up for detailed interviews due to contact information being unavailable or refused. Finally, the DEDISPxx = 7 cases were labeled as detailed interview respondents but the required disability data were missing.

#### *Interview Nonresponse Adjustment*

Our weighting strategy for interview nonresponse adjustment was similar to that for screening nonresponse adjustment. We first separated the sampled enrollees into the four groups just described. For each group, an interview nonresponse adjustment was made that accounted for interview nonresponse by setting the weights of nonrespondents to zero and then adjusting the weights of interview respondents to recover the nonrespondent weight total. This adjustment process was done within weighting classes.

Our first step was to assign each sampled enrollee to a weighting class. Enrollees ineligible for data collection (group 1) and enrollees screened out as noninstitutionalized and nondisabled (group 3) were assigned to separate weighting classes and given an

interview nonresponse adjustment of 1, so their detailed interview nonresponse-adjusted interview weight would be equal to their nonresponse-adjusted screening weight. Nonrespondents to screening (group 2) were also placed in a separate weighting class and assigned an interview nonresponse-adjustment factor of 0 and a nonresponse-adjusted interview weight of 0 (they already have nonresponse-adjusted screening weights of 0).

The remaining enrollees (group 4) were those eligible enrollees assigned to have detailed interviews conducted. These enrollees had screened in as institutionalized or disabled, or they had been assigned for detailed interview in the previous survey cycle. Also these enrollees had been determined to be living in the U.S. in eligible housing stock through use of CMS administrative data and/or NLTCS data collection activities. These group 4 enrollees were assigned to weighting classes defined by the cross of interview category, age group, sex, race, and Census region and collapsed as needed to yield weighting classes that usually had 20 or more interview respondents, although some classes were allowed to have only 15-19 interview respondents when otherwise excessive collapsing would have been needed. The age group variable was defined slightly differently across survey cycles due to the different age ranges for new cohorts and other sample design differences.

The most important variable used in forming weighting classes was the interview category variable. This variable was defined as follows:

- INTCAT<sub>xx</sub> = 1 if screening required and the enrollee was classified as institutionalized  
2 if screening required and the enrollee was classified as disabled  
3 if assigned to institutional interview in previous cycle  
4 if assigned to community interview in previous cycle

All enrollees assigned for detailed interviews first had an interview control card administered that determined whether the enrollee resided in an institution and if so whether that institution provided substantial nursing care to the enrollee and/or had a health professional on duty every day. Enrollees residing in institutions meeting the health care requirement were assigned to have an institutional interview conducted. The remaining enrollees were assigned to have a community interview conducted, regardless of their housing type. For detailed interview nonrespondents, the control card data are typically missing and so their interview assignment to institutional versus community interview is also unknown. As a consequence, separate nonresponse adjusted weights could not be developed for each type of interview. Instead, we followed the NLTCS strategy of defining a nonresponse adjusted interview weight for the two interview types combined. An innovation for our weights was using the screener derived classification for new cohorts and healthy old cohorts for whom screening was required (codes 1 and 2) as well as the previous interview assignments made for old cohorts assigned for detailed interviews in the previous survey cycle.

Note that for screening purposes, a much less restrictive definition was used for institutional residences. Except for the 2004 survey cycle, screening imposed no health

care requirements in classifying an enrollee as being institutionalized. Hence, an enrollee screened in as “institutionalized” could be assigned to have a community interview conducted. Again with the exception of the 2004 screener, these enrollees screened in as institutionalized did not have the ADL/IADL screener disability questions asked, so users must use the community interview responses to determine if these enrollees are disabled.

After detailed interview weighting classes were formed, we defined a 0-1 detailed response indicator for survey cycle xx as follows:

$$\begin{aligned} \text{DERESP}_{xx} &= 0 \text{ if nonrespondent (DEDISP}_{xx}=2, 4, 7, 8) \\ &1 \text{ if respondent (DEDISP}_{xx}=1, 3, 5, 6) \end{aligned}$$

The detailed interview nonresponse adjustment for weighting class d in survey cycle xx was defined as follows:

$$\text{DENRADJ}_{xx}(d) = \frac{\sum_{hi \in d} \text{SCNRWT}_{xx}(hi)}{\sum_{hi \in d} \text{DERESP}_{xx}(hi) * \text{SCNRWT}_{xx}(hi)} .$$

The numerator is the sum of the screener nonresponse adjusted weights for all enrollees belonging to weighting class *d* and the denominator is the sum of the screener nonresponse adjusted weights over just the detailed interview respondents in weighting class *d*.

The detailed interview nonresponse adjusted weight for each sampled case from weighting class *d* was then defined as:

$$\text{DENRWT}_{xx}(hi) = \text{DERESP}_{xx}(hi) * \text{DENRADJ}_{xx}(c) * \text{SCNRWT}(hi) .$$

Enrollees assigned for the detailed interview but failing to respond had their interview nonresponse adjustment factor set to 0 and hence their nonresponse-adjusted screener weight is also 0. For each weighting class composed of eligible enrollees, we computed an interview nonresponse adjustment factor to be applied to the screener nonresponse-adjusted weights. The resultant interview nonresponse-adjusted weights for respondents sum to the total of the screening weights across interview respondents and nonrespondents belonging to that weighting class.

Note that ineligibles (DEDISP<sub>xx</sub>=3 or 5) and screened out cases (DEDISP<sub>xx</sub>=6) are considered to be automatic respondents to the detailed interview as interview responses were not required from them. These cases have the detailed interview weight DENRWT<sub>xx</sub> equal to their screening weight SCNRWT<sub>xx</sub>.

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## Poststratification Adjustment

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The next step in the weighting process was to poststratify the nonresponse-adjusted interview weights so that they summed to population counts of age 65 and older Medicare enrollees derived from CMS data files. Ideally, we would have poststratified to enrollee population counts as of the April 1 reference date but counts were only available as of July 1 for each survey cycle's reference year. This poststratification was implemented to ensure greater accuracy for the final cross sectional weights. This approach differs from the original NLTCs which poststratified to total population counts of age 65 and older U.S. residents. These total population counts included nonenrollees as well as enrollees of the Medicare program. The population counts that we used include only enrollees which makes our revised weights particularly advantageous for use with the Medicare linked data.

### *Population Counts Used for Poststratification*

The weighting procedures we used up to this point led to detailed interview nonresponse-adjusted weights that were representative of the entire set of enrollees sampled from the Medicare database. Not only is this good survey practice, but we also had weights for the specific subpopulation for which CMS was able to provide population counts. The NLTCs target population was defined as of April 1, but the available population counts from CMS were for enrollees as of July 1. To compensate for that we removed those enrollees deceased as of screening from the poststratification adjustment. These deceased enrollees were placed into a separate poststratum and given a poststratification adjustment factor of 1.

For all survey cycles, we were only able to obtain the total population count of aged beneficiaries as of July 1. These data were abstracted from

<http://www.cms.hhs.gov/MedicareEnRpts/Downloads/HISMI07.pdf>

and record total Medicare aged enrollment as of July 1 of the five reference years. Note that the reference year for the 1989 NLTCs was 1988. The population counts we obtained are as follows:

<b>Year</b>	<b>Aged Enrollees</b>
1984	27,570,950
1988	30,408,525
1994	32,800,745
1999	33,928,752
2004	35,300,848

For the 1994 to 2004 survey cycles, we were able to obtain the following counts by age from CMS:

Comparison of aged Medicare beneficiaries by age group and type of coverage, selected years

Age Group	1994	1999	2004
	<u>HI +/or SMI</u>	<u>HI +/or SMI</u>	<u>HI +/or SMI</u>
Total	32,797,080	33,920,887	35,328,253
65-69	9,589,448	9,075,425	9,697,351
70-74	8,706,288	8,654,888	8,320,756
75-79	6,399,247	7,230,091	7,257,090
80-84	4,367,592	4,733,697	5,427,674
85-89	2,382,679	2,687,225	2,927,272
90-94	970,832	1,091,119	1,214,608
95 and over	380,994	448,442	483,502

Source: CMS/ORDI/IMG Denominator File selected years using enrollment tables generated by current program, October 2008

### *Poststratification Adjustment*

Our goal for the NLTCs was to create weights that are accurate and consistent across survey cycles. For this reason, we decided not to use the breakdowns by age range available for the 1994 to 2004 survey cycles but not for the 1984 and 1989 cycles with one exception. To control for the age 95+ subsampling introduced in 1994, we decided to poststratify age 95+ enrollees separately from age 65 to 94 enrollees.

Poststratum 9 was set aside for those enrollees that were deceased at the time of screening (SCDISP<sub>xx</sub>=01 or 02). All cases deceased at the time of screening were assigned poststratification adjustment factors of 1, that is POSTADJ<sub>xx</sub>(9)=1. All detailed interview nonrespondents (DERESP<sub>xx</sub>=0), were assigned to Poststratum 8 and assigned POSTADJ<sub>xx</sub>(8)=0.

For those nondeceased at the time of screening (SCDISP<sub>xx</sub> ≠ 01 or 02) who were detailed interview respondents (DERESP<sub>xx</sub>=1), the poststratification adjustment factor was defined as:

:

$$POSTADJ_{xx}(p) = \frac{POPCOUNT_{xx}(p)}{\sum_{hi \in POSTSTR=p} DENRWT_{xx}(hi)}$$

Here POPCOUNT<sub>xx</sub>(1) is defined as the total count of aged enrollees given in the first table for Poststratum 1 for the 1984 and 1989 NLTCs survey cycles. For Poststratum 2 and 3 for the 1994, 1999, and 2004 survey cycles, the second table was used to calculate the proportion of enrollees less than 95 and the proportion age 95 and older. These proportions were applied to the total count from the first table to split the Table 1 total count into counts for Poststrata 2 and 3.

#### *Final Cross Sectional Weight Construction and Use*

The nonresponse adjusted interview weight was multiplied by the poststratification adjustment factor to create the final cross sectional weight or:

$$FINCSWT_{xx}(hi) = POSTADJ(POSTSTR) * DENRWT(hi).$$

Nonrespondents with 0 as their interview nonresponse-adjusted weight were assigned 0 as their poststratification adjustment factor and 0 as their poststratified weight.

The end product was a data file for each survey cycle recording the final cross sectional weight, together with all weight components, adjustment factors, and poststratum and weighting class variables.

The final cross sectional weights are labeled FINCSWT<sub>xx</sub> where xx is the year. Screening nonrespondents and detailed interview nonrespondents have FINCSWT<sub>xx</sub>=0. Eligible respondents and ineligibles have nonzero weights. Analysts can distinguish between these cases using the variable DEDISP<sub>xx</sub> where

- Nonrespondents have DEDISP<sub>xx</sub>=2, 4, 7, or 8.
- Ineligibles have DEDISP<sub>xx</sub>=3 or 5
- Eligible respondents have DEDISP<sub>xx</sub>=1 or 6.

There are two types of eligible respondents.

- First, there are those who completed screening and were determined to be noninstitutionalized and nondisabled (DEDISP<sub>xx</sub>=6). Our weights were developed to be as consistent as possible across cycles so we ignored the Healthy Subsampling introduced in 1994. Enrollees who reported no institutionalization and no disabilities on the screener were labeled as eligible respondents regardless of their response status to the detailed interview.
- Second, there are those who completed screening and reported institutionalization and/or disability and were sent for detailed interview as well as those for whom the screening stage was skipped. These cases had to complete the detailed interview in order to be labeled as an eligible respondent.

Analysts should remember that NLTCs used a wide net in defining the institutionalized for screening purposes. Not all enrollees labeled as institutionalized in screening had the Institutional Interview administered as the control card for the detailed interview invoked

a more restrictive definition. So having the institutional interview administered means the enrollee meets the exact definition of institutionalized. Some cases that were screened in as institutionalized may not have met this exact definition and may have had the community interview conducted and some may have reported no disabilities in that interview. So completion of a community interview does not imply that the enrollee was disabled. The detailed data must be used to make this determination.

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## Concluding Remarks

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The revised cross sectional weights described in this memorandum are quite different from the current NLTCs cross sectional weights in these ways:

- The current weights were constructed to reflect the total U.S. population age 65 and older, while the revised weights are designed to represent only that portion that enrolled in Medicare.
- Essentially the same base weight is used and many of the weighting steps are similar, but there is no first-stage ratio factor applied to the screener weights. The current weights use the first-stage factor to force the weights within PSUs to exactly reflect the population differences for the first-stage strata from which they were selected with respect to Census region, SMSA/nonSMSA, and age. This adjustment was made to provide lower variances. We did not have access to the micro data needed for this adjustment.
- The current weights use a second-stage factor that forces the weights to agree with population projections derived from the most recent Census for the institutionalized and noninstitutionalized population by age, race and sex. The revised weights discussed in this report were forced to agree with total population counts of the Medicare enrollee population age 65 and older. These counts were derived from the Medicare enrollment database.
- Poststratification by institutional residence was not possible for our target population but nonresponse adjustments controlled for institutional status. This ensures the capability to conduct separate analyses for the institutionalized versus noninstitutionalized populations. The survey data can be used directly with the revised weights to generate an independent estimate of the institutionalized population that are Medicare enrollees and the Medicare expenditures associated with institutionalization.
- Final cross sectional weights were defined for all sampled enrollees, not just those who were eligible or those who were assigned for detailed interviews.<sup>20</sup>

In addition to these differences, we also instituted edit checks and created revised variables with erroneously recorded base weights corrected and faulty and inconsistent survey responses resolved prior to weight development.

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<sup>20</sup> The original NLTCs calculated the weights in a similar way but zeroed out the weights of ineligible enrollees prior to data delivery.

In conducting investigations, analysts need to define the subpopulation applicable for their analyses and then determine whether these weights are appropriate. The final cross sectional weights we produced are suitable for use with a concatenated data set composed of screener data for enrollees screened as nondisabled and noninstitutionalized together with detailed interview data for enrollees that were screened in as disabled/institutionalized or had been assigned for detailed interviews in the previous survey cycle.

Technical Report

for

**Contract No. HHSP233200-45006XI**

**Revised Cross Sectional Weights for the National Long-Term Care Survey:  
Volume II: Technical Specifications**

**Submitted to:**

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**January 23, 2008**

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## Overview

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The National Long Term Care Survey is a longitudinal study of the U.S. Population of living Medicare recipients age 65 and older. The survey was first conducted in 1982 and then repeated in 1984, 1989, 1994, 1999, and 2004. For this study, revised cross-sectional weights were created for the 1984 to 2004 survey cycles. This volume contains a compilation of specifications for creating the screener, interview, and revised final cross-sectional weights as well as specifications for recode variables created as input for the weighting process for the five survey cycles from 1984 to 2004.

Data users should consult Volume I to understand the details of the revised weighting process. Volume III contains the data dictionary of weights and input variables for the five survey cycles..

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Specifications for Screener Recode Variables Recording Institutionalization and  
ADL and IADL Disability

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[Insert the five memoranda labeled “NLTCS Screener Variables Redefined” beginning with the 1984 memo and ending with the 2004 memo]

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**Specifications for the Revised Screener Disposition Codes**

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[Insert the five memos labeled “Screener Specs Redefined” beginning with the memo for the 1984 NLTCS and ending with the memo for the 2004 NLTCS]

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**Specifications for the Revised Screener Outcome Codes**

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[Insert the memo labeled “Screening Outcomes”]

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**Specifications for the Screener Nonresponse Adjusted Weights**

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[Insert file labeled “Screener Nonresponse Adjustment”]

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**Specifications for the Detailed Interview Disposition Codes**

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[Insert file labeled with “DEDISP”]

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**Specifications for Nonresponse Adjusted Interview Weights and Final Cross Sectional Weight**

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[Insert file labeled Det Int NR ADJ]

Technical Report

for

**Contract No. HHSP233200-45006XI**

**Revised Cross Sectional Weights for the National Long-Term Care Survey:  
Volume III: Data Dictionaries**

**Submitted to:**

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## Overview

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The National Long Term Care Survey is a longitudinal study of the U.S. Population of living Medicare recipients age 65 and older. The survey was first conducted in 1982 and then repeated in 1984, 1989, 1994, 1999, and 2004. For this study, revised cross-sectional weights were created for the 1984 to 2004 survey cycles. This volume presents data dictionaries for the five files containing the revised final cross-sectional weights and the associated NLTC database variables used as input for the weighting process, and the intermediate weights and other data recodes for the five survey cycles from 1984 to 2004.

Data users should consult Volume I to understand the details of the revised weighting process. Volume II contains technical memoranda providing specifications for key input variables and intermediate and final weights.

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Data Dictionary for the 1984 NLTCS Revised Cross-Sectional Weights File

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Variable	Description	Category Descriptors	Type	Length
adl_flg_rev	Revised ADL flag - ADL_FLAG (whether or not there is one YES response in items SCN_15_A through SCN_15_I)	1 = At least one YES response to items 15a through 15i  2 = No YES responses to items 15a through 15i  Blank = No responses to any of the items 15a through 15i	Character	1
agecat84	Age category for enrollee derived from birthday variable	1 = 65 to 66 2 = 67 to 74 3 = 75 to 79 4 = 80 to 84	Character	1
ageref84	Enrollee age as of 04/01/1984 from HCFA date of birth		Numeric	8
basewgt84	1984 cross-sectional enrollee base weight		Numeric	8
birthday	Enrollee date of birth from the HCFA Master Control File		Numeric (SAS date value)	8
cc_11	Reason for nonresponse in the detailed interview	01 = Unable to locate, moved, address unknown  02 = No one at home  03 = Sample person temporarily absent  04 = Refusal at		

		<p>institutional level</p> <p>05 = Refusal at person level</p> <p>06 = Sample person unable to respond</p> <p>07 = Other Type A non-response</p> <p>08 = Deceased on or after April 1, 1984</p> <p>09 = Deceased before April 1, 1984</p> <p>10 = In a correctional facility</p> <p>11 = Moved outside country on or after April 1, 1984</p> <p>12 = Moved within country beyond survey limits</p> <p>13 = Other Type C non-response</p>		
cc_ck_A	Check box A from the Control Card	<p>1 = Sample components B and T</p> <p>2 = Sample components A, C, and S</p>	Character	1
comp84	Level of questionnaire completion	<p>0 = Not a complete interview</p> <p>1 = Must have detail</p> <p>2 = No detail</p> <p>3 = Previous detail</p>	Character	1

		4 = Institutional questionnaire 5 = Deceased		
dedisp84	Detailed interview disposition code	1 = Detailed interview respondent 2 = Detailed interview nonrespondents 3 = Ineligible for detailed interview 4 = Screened in but not administered detailed interview 5 = Ineligible for screening interview 6 = Screened out, noninstitutionalized and nondisabled 7 = Classified as detailed interview respondent but missing disability data 8 = Screening interview nonrespondent	Numeric	8
denradj84	Detailed interview nonresponse adjustment factor		Numeric	8
denrwt84	Detailed interview weight with nonresponse adjustment factor denradj84		Numeric	8
fincswt84	Final 1984 cross – sectional weight with		Numeric	8

	poststratification adjustment factor postadj84			
finwt_stat	Presence of a positive Census 1984 detailed interview final weight	0 = 1984 final detailed interview weight is 0 1 = 1984 final detailed interview weight is greater than 0	Numeric	8
I_sex	Enrollee sex from HCFA Master Control File	1 = Male 2 = Female	Character	1
intcat84	Detailed interview category for nonresponse adjustment	1 = Screening required and classified as institutional 2 = Screening required and classified as disabled 3 = Assigned to institutional interview in previous cycle 4 = Assigned to community interview in previous cycle	Character	1
intcell	Preliminary nonresponse weighting class for detailed interview	Weighting classes constructed by concatenating the intcat84, I_sex, agecat84, and region variables	Character	5
intcellrec	Final nonresponse weighting class for detailed interview		Character	4
nrcell	Preliminary nonresponse weighting class for screener interview	Weighting classes constructed by concatenating the scomp84, subs, racerec,	Character	6

		I_sex, agecat84, and region variables		
nrcellrec	Final nonresponse weighting class for the screener interview		Character	6
nurse	Health professional on duty everyday at this address	1 = Yes 2 = No	Character	1
phoadr	Availability of telephone number for sampled person	1 = Sampled person is deceased 2 = No telephone number available for sampled person 3 = Refused or don't know if telephone is available	Character	1
postadj84	Poststratification adjustment factor		Numeric	8
racerec	Race group derived from the RACEMCL variable found on the HCFA Master Control File	1 = White and unknown 2 = Black and other	Character	1
reclass	Reclassification of sampled person classified as a detailed interview respondent	0 = Detailed interview respondent not reclassified 1 = Detailed interview respondent reclassified as a nonrespondent	Numeric	8
region	Census region derived from SSA state code	1 = Northeast 2 = Midwest 3 = South	Numeric	8

		4 = West		
scadl84	Screening status for the ability to perform activities of daily living without help (ADL)	1 = ADL disabled 2 = Not ADL disabled 5 = Possibly ADL disabled 6 = Possibly not ADL disabled 7 = Institutionalized 8 = IADL status undefined 9 = Ineligible	Numeric	8
scdisp84	Screeener disposition code	001 = Deceased 003 = Correctional institution 004 = Moved outside of the country 009 = Other ineligible 011 = Moved within country, beyond interviewing limits 012 = Other nonresponse 014 = Partial screener, disability status determined 114 = Partial screener, disability status determined, Type A nonrespondent	Character	3

		<p>015 = Partial screener, no indication of disability</p> <p>115 = Partial screener, no indication of disability, Type A nonrespondent</p> <p>016 = Partial screener, some indication of disability</p> <p>116 = Partial screener, some indication of disability, Type A nonrespondent</p> <p>021 = Completed screener with status of nondisabled/ noninstitutionalized</p> <p>121 = Completed screener with status of nondisabled/ noninstitutionalized , Type A nonrespondent</p> <p>032 = Completed screener, screened in as disabled</p> <p>132 = Completed screener, screened in as disabled, Type A nonrespondent</p> <p>034 = Completed screener, screened in as institution- alized</p> <p>134 = Completed screener, screened in as institution- alized , Type A nonrespondent</p>		
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		<p>035 = Community interview in previous survey cycle</p> <p>135 = Community interview in previous survey cycle, Type A nonrespondent</p> <p>036 = Institutional interview in previous survey cycle</p> <p>136 = Institutional interview in previous survey cycle, Type A nonrespondent</p>		
sciadl84	Screening status for the ability to perform instrumental activities of daily living without help (IADL)	<p>1 = IADL disabled</p> <p>2 = Not IADL disabled</p> <p>5 = Possibly IADL disabled</p> <p>6 = Possibly not IADL disabled</p> <p>7 = Institutionalized</p> <p>8 = IADL status undefined</p> <p>9 = Ineligible</p>	Numeric	8
scinst84	Screening institutional status	<p>1 = Long-term care institution</p> <p>2 = Not in a long-term care institution</p> <p>8 = Eligible but institutional status undefined</p> <p>9 = Ineligible</p>	Numeric	8

scn_15_a	Problem eating without help from another person or special equipment	1 = Yes 2 = No	Character	1
scn_15_b	Problem getting in and out of bed without help	1 = Yes 2 = No	Character	1
scn_15_c	Problem getting in and out of chairs without help	1 = Yes 2 = No	Character	1
scn_15_d	Problem walking around inside without help	1 = Yes 2 = No	Character	1
scn_15_e	Problem going outside without help from another person or special equipment	1 = Yes 2 = No	Character	1
scn_15_f	Problem dressing without help	1 = Yes 2 = No	Character	1
scn_15_g	Problem bathing without help	1 = Yes 2 = No	Character	1
scn_15_h	Problem getting into the bathroom or using the toilet	1 = Yes 2 = No	Character	1
scn_15_i	Problem controlling bowel movements or urination	1 = Yes 2 = No	Character	1
scn_15_no	Count of NO responses in the items scn_15_a through scn_15_i		Numeric	8
scn_15_yes	Count of YES responses in the items		Numeric	8

	scn_15_a through scn_15_i			
scn_16_a	Has had ADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_16_b	Expect ADL problems will last for next three months or longer	1 = Yes 2 = No	Character	1
scn_16_c	From beginning to end, ADL problems will last three months or longer	1 = Yes 2 = No	Character	1
scn_17_a	Able to prepare meals without help	1 = Yes 2 = No	Character	1
scn_17_b	Able to do laundry without help	1 = Yes 2 = No	Character	1
scn_17_c	Able to do light housework such as washing dishes without help	1 = Yes 2 = No	Character	1
scn_17_d	Able to shop for groceries without help	1 = Yes 2 = No	Character	1
scn_17_e	Able to manage money	1 = Yes 2 = No	Character	1
scn_17_f	Able to take medicine without help	1 = Yes 2 = No	Character	1
scn_17_g	Able to make telephone calls without help	1 = Yes 2 = No	Character	1
scn_17_no	Count of NO		Numeric	8

	responses in the items scn_17_a through scn_17_g			
scn_17_yes	Count of YES responses in the items scn_17_a through scn_17_g		Numeric	8
scn_20a	Has had ADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_20b	Expect IADL problems will last for next three months or longer	1 = Yes 2 = No	Character	1
scn_20c	From beginning to end, IADL problems will last three months or longer	1 = Yes 2 = No	Character	1
scomp84	Sample component based on 1982 screening and detailed interviewing dispositions	A = Screener Type A noninterview, institu- tionalized after 04/01/1982  B = Screener Type C noninterview, institu- tionalized before 04/01/1982  C = Detailed interview or Type A nonresponse to detailed interview in 1982  S = Subsample of enrollees screened in 1982 as not impaired  T = Cohort who were less than 65 on 04/01/82	Character	1

sc_open	Availability of the enrollee for screening interview	1 = Enrollee available for contact with interviewer  2 = Enrollee not available for contact with interviewer  3 = Enrollee deceased	Character	1
scnradj84	Screener nonresponse adjustment factor		Numeric	8
scnrwt84	Screener weight with the nonresponse adjustment factor scnradj84			
scout84	Screener outcome code	1 = Screened in for detailed interview  2 = Screened out  3 = Ineligible  8 = Screener nonrespondent	Numeric	8
screenstat	Reason for screener nonresponse derived from telephone and field screening procedures	Blank = Completed screener  01 = Unable to locate  02 = No one at home  03 = Temporarily absent  04 = Refused  05 = Unable to respond  06 = Other Type A noninterview	Character	2

		<p>07 = Deceased before 04/01/1984</p> <p>08 = Deceased on or after 04/01/1984</p> <p>09 = In a correctional facility</p> <p>10 = Moved outside the country before 04/01/1984</p> <p>11 = Moved outside the country on or after 04/01/1984</p> <p>12 = Moved within country beyond survey limits</p> <p>13 = Other Type C noninterview</p>		
seq	Enrollee identification code	An enrollee's seq value stays constant across survey cycles	Numeric	5
subs	Reason for Medicare entitlement	<p>1 = OASI</p> <p>2 = Disability and/or renal</p>	Character	1
sum_item15	Count of nonmissing responses to items scn_15_a through scn_15_i		Numeric	8
sum_item17	Count of nonmissing responses to items scn_17_a through scn_17_g		Numeric	8
tpoth_1	Type of institution	<p>1 = Mental</p> <p>2 = Correctional</p>	Character	1

		3 = Short stay		
		4 = Other		

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**Data Dictionary for the 1989 NLTCs Revised Cross-Sectional Weights File**

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Variable	Description	Category Descriptors	Type	Length
adl_flg_rev	Revised ADL flag - ADL_FLAG (whether or not there is one YES response in items SCN_15_A through SCN_15_I)	1 = At least one YES response to items 15a through 15i  2 = No YES responses to items 15a through 15i  Blank = No responses to any of the items 15a through 15i	Character	1
agecat89	Age category for enrollee derived from birthday variable	1 = 65 to 68 2 = 69 to 70 3 = 71 to 74 4 = 75 to 79 5 = 80 to 84 6 = 85 and above	Character	1
ageind89r	Indicator as to whether enrollee is 75 years or greater on 04/01/1988	0 = Enrollee is less than 75 years of age on 04/01/1988  1 = Enrollee is 75 years or above on 04/01/1988	Numeric	8
ageref89	Enrollee age as of 04/01/1988 from HCFA date of birth		Numeric	8
basewgt89	1989 cross-sectional enrollee base weight		Numeric	8
ccnoninv	Reason for nonresponse in the detailed interview	01 = Unable to locate, moved, address unknown  02 = No one at home  03 = Sample person		

		<p>temporarily absent</p> <p>04 = Refusal at institutional level</p> <p>05 = Refusal at person level</p> <p>06 = Sample person unable to respond</p> <p>07 = Other Type A non-response</p> <p>08 = Deceased</p> <p>09 = In a correctional facility</p> <p>10 = Moved outside country on or after April 1, 1988</p> <p>11 = Moved within country beyond survey limits</p> <p>12 = Other Type C non-response</p>		
cn_1984	Sample component based on 1984 screening and detailed interviewing dispositions	<p>1 = Detailed community interview in 1984</p> <p>4 = Detailed institutional interview in 1984</p> <p>5 = Unimpaired in 1984</p> <p>6 = Less than 65 on 04/01/84 but 65 before 04/01/88</p> <p>7 = Unimpaired in 1984, 75 years and above and</p>		

		not selected for Component 5		
cn_inv	Interview status recode	<p>1 = Community interview</p> <p>2 = Community noninterview</p> <p>3 = Institutional interview</p> <p>4 = Institutional noninterview</p> <p>5 = Noninterview – community or institutional</p> <p>6 = LTC-2 noninterview</p> <p>7 = Screened out</p> <p>8 = LTC-10 noninterview</p> <p>9 = LTC-10 interview and LTC-3 interview</p>	Character	1
dedisp89	Detailed interview disposition code	<p>1 = Detailed interview respondent</p> <p>2 = Detailed interview nonrespondent</p> <p>3 = Ineligible for detailed interview</p> <p>4 = Screened in but not administered detailed interview</p> <p>5 = Ineligible for screening interview</p> <p>6 = Screened out, noninstitutionalized and</p>	Numeric	8

		nondisabled  7 = Classified as detailed interview respondent but missing disability data  8 = Screening interview nonrespondent		
denradj89	Detailed interview nonresponse adjustment factor		Numeric	8
denrwt89	Detailed interview weight with nonresponse adjustment factor denradj89		Numeric	8
fincswt89	Final 1989 cross – sectional weight with poststratification adjustment factor postadj89		Numeric	8
finwt_stat	Presence of a positive Census 1989 detailed interview final weight	0 = 1989 final detailed interview weight is 0  1 = 1989 final detailed interview weight is greater than 0	Numeric	8
hcfa_birth	Enrollee date of birth from the HCFA Master Control File		Numeric (SAS date value)	8
hc_sex	Enrollee sex from HCFA Master Control File	1 = Male  2 = Female	Character	1
iadl_flg_rev	Revised IADL flag - ADL_FLAG (whether or not there is one YES response in items SCN_17_A through SCN_17_G)	1 = At least one YES response to items 17a through 17g  2 = No YES responses to items 17a through 17g	Character	1

		Blank = No responses to any of the items 17a through 17g		
inhm	Address of sampled person is that of a nursing home	1 = Yes 2 = No	Character	1
inoth	Address of sampled person is an institution that is not a nursing home	1 = Yes 2 = No	Character	1
intcat89	Detailed interview category for nonresponse adjustment	1 = Screening required and classified as institutional 2 = Screening required and classified as disabled 3 = Assigned to institutional interview in previous cycle 4 = Assigned to community interview in previous cycle	Character	1
intcell	Preliminary nonresponse weighting class for detailed interview	Weighting classes constructed by concatenating the intcat89, hc_sex, agecat89, and region variables	Character	5
intcellrec	Final nonresponse weighting class for detailed interview		Character	4
nrcell	Preliminary nonresponse weighting class for screener interview	Weighting classes constructed by concatenating the cn_1984, subs89, racerec, hc_sex, agecat89, and region	Character	6

		variables		
nrcellrec	Final nonresponse weighting class for the screener interview		Character	6
nurse	Health professional on duty everyday at this address	1 = Yes 2 = No	Character	1
postadj89	Poststratification adjustment factor		Numeric	8
racerec	Race group derived from the HCFA_RACE variable found on the HCFA Master Control File	1 = White and unknown 2 = Black and other	Character	1
region	Census region derived from SSA state code	1 = Northeast 2 = Midwest 3 = South 4 = West	Numeric	8
scadl89	Screening status for the ability to perform activities of daily living without help (ADL)	1 = ADL disabled 2 = Not ADL disabled 5 = Possibly ADL disabled 6 = Possibly not ADL disabled 7 = Institutionalized 8 = IADL status undefined 9 = Ineligible	Numeric	8
scdisp89	Screener disposition code	001 = Deceased	Character	3

		<p>003 = Correctional institution</p> <p>004 = Moved outside of the country</p> <p>009 = Other ineligible</p> <p>011 = Moved within country, beyond interviewing limits</p> <p>012 = Other nonresponse</p> <p>014 = Partial screener, disability status determined</p> <p>114 = Partial screener, disability status determined, Type A nonrespondent</p> <p>015 = Partial screener, no indication of disability</p> <p>115 = Partial screener, no indication of disability, Type A nonrespondent</p> <p>016 = Partial screener, some indication of disability</p> <p>116 = Partial screener, some indication of disability, Type A nonrespondent</p> <p>021 = Completed screener with status of nondisabled/noninstitutionalized</p>		
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		<p>121 = Completed screener with status of nondisabled/ noninstitutionalized , Type A nonrespondent</p> <p>032 = Completed screener, screened in as disabled</p> <p>132 = Completed screener, screened in as disabled, Type A nonrespondent</p> <p>034 = Completed screener, screened in as institution- alized</p> <p>134 = Completed screener, screened in as institution- alized , Type A nonrespondent</p> <p>035 = Community interview in previous survey cycle</p> <p>135 = Community interview in previous survey cycle, Type A nonrespondent</p> <p>036 = Institutional interview in previous survey cycle</p> <p>136 = Institutional interview in previous survey cycle, Type A nonrespondent</p>		
sciadl89	Screening status for the ability to perform instrumental activities	<p>1 = IADL disabled</p> <p>2 = Not IADL disabled</p>	Numeric	8

	of daily living without help (IADL)	<p>5 = Possibly IADL disabled</p> <p>6 = Possibly not IADL disabled</p> <p>7 = Institutionalized</p> <p>8 = IADL status undefined</p> <p>9 = Ineligible</p>		
scinst89	Screening institutional status	<p>1 = Long-term care institution</p> <p>2 = Not in a long-term care institution</p> <p>8 = Eligible but institutional status undefined</p> <p>9 = Ineligible</p>	Numeric	8
scn_15_a	Problem eating without help from another person or special equipment	<p>1 = Yes</p> <p>2 = No</p>	Character	1
scn_15_b	Problem getting in and out of bed without help	<p>1 = Yes</p> <p>2 = No</p>	Character	1
scn_15_c	Problem getting in and out of chairs without help	<p>1 = Yes</p> <p>2 = No</p>	Character	1
scn_15_d	Problem walking around inside without help	<p>1 = Yes</p> <p>2 = No</p>	Character	1
scn_15_e	Problem going outside without help from another person or special equipment	<p>1 = Yes</p> <p>2 = No</p>	Character	1

scn_15_f	Problem dressing without help	1 = Yes 2 = No	Character	1
scn_15_g	Problem bathing without help	1 = Yes 2 = No	Character	1
scn_15_h	Problem getting into the bathroom or using the toilet	1 = Yes 2 = No	Character	1
scn_15_i	Problem controlling bowel movements or urination	1 = Yes 2 = No	Character	1
scn_15_no	Count of NO responses in the items scn_15_a through scn_15_i		Numeric	8
scn_15_yes	Count of YES responses in the items scn_15_a through scn_15_i		Numeric	8
scn_16_a	Has had ADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_16_b	Expect ADL problems will last for next three months or longer	1 = Yes 2 = No	Character	1
scn_16_c	From beginning to end, ADL problems will last three months or longer	1 = Yes 2 = No	Character	1
scn_17_a	Able to prepare meals without help	1 = Yes 2 = No	Character	1
scn_17_b	Able to do laundry without help	1 = Yes	Character	1

		2 = No		
scn_17_c	Able to do light housework such as washing dishes without help	1 = Yes 2 = No	Character	1
scn_17_d	Able to shop for groceries without help	1 = Yes 2 = No	Character	1
scn_17_e	Able to manage money	1 = Yes 2 = No	Character	1
scn_17_f	Able to take medicine without help	1 = Yes 2 = No	Character	1
scn_17_g	Able to make telephone calls without help	1 = Yes 2 = No	Character	1
scn_17_no	Count of NO responses in the items scn_17_a through scn_17_g		Numeric	8
scn_17_yes	Count of YES responses in the items scn_17_a through scn_17_g		Numeric	8
scn_18	Disability or health problem keeps person from doing one or more ADLs	1 = Yes 2 = No	Character	1
scn_20a	Has had ADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_20b	Expect IADL problems will last for next three months or longer	1 = Yes 2 = No	Character	1
scn_20c	From beginning to	1 = Yes	Character	1

	end, IADL problems will last three months or longer	2 = No		
scn_inin	Check item C on screener indicating whether sample person is in an institution	1 = Yes 2 = No	Character	1
scomp84	Sample component based on 1982 screening and detailed interviewing dispositions (from the 1984 NLTCS cross-sectional file)	A = Screener Type A noninterview, institutionalized after 04/01/1982 B = Screener Type C noninterview, institutionalized before 04/01/1982 C = Detailed interview or Type A nonresponse to detailed interview in 1982 S = Subsample of enrollees screened in 1982 as not impaired T = Cohort who were less than 65 on 04/01/82	Character	1
sc_open	Availability of the enrollee for screening interview	1 = Enrollee available for contact with interviewer 2 = Enrollee not available for contact with interviewer 3 = Enrollee deceased	Character	1

scnradj89	Screener nonresponse adjustment factor		Numeric	8
scnrwt89	Screener weight with the nonresponse adjustment factor scnradj89			
scout89	Screener outcome code	1 = Screened in for detailed interview 2 = Screened out 3 = Ineligible 8 = Screener nonrespondent	Numeric	8
screenstat	Reason for screener nonresponse derived from telephone and field screening procedures	Blank = Completed screener 01 = Unable to locate 02 = No one at home 03 = Temporarily absent 04 = Refused 05 = Unable to respond 06 = Other Type A noninterview 07 = Deceased before 04/01/1988 08 = Deceased on or after 04/01/1988 09 = In a correctional facility 10 = Moved outside the country before 04/01/1988	Character	2

		<p>11= Moved outside the country on or after 04/01/1988</p> <p>12 = Moved within country beyond survey limits</p> <p>13 = Other Type C noninterview</p>		
seq	Enrollee identification code	An enrollee's seq value stays constant across survey cycles	Numeric	5
subs89	Reason for Medicare entitlement	<p>1 = OASI</p> <p>2 = Disability and/or renal</p>	Character	1
sum_item15	Count of nonmissing responses to items scn_15_a through scn_15_i		Numeric	8
Sum_item17	Count of nonmissing responses to items scn_17_a through scn_17_g		Numeric	8
tpoth_1	Type of institution	<p>1 = Correctional</p> <p>2 = Short stay hospital</p> <p>3 = Mental</p> <p>4 = Other</p>	Character	1

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**Data Dictionary for the 1994 NLTCs Revised Cross-Sectional Weights File**

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Variable	Description	Category Descriptors	Type	Length
adl_flg_rev	Revised ADL flag - ADL_FLAG (whether or not there is one YES response in items SCN_15_A through SCN_15_I)	1 = At least one YES response to items 15a through 15i  2 = No YES responses to items 15a through 15i  Blank = No responses to any of the items 15a through 15i	Character	1
agecat94	Age category for enrollee derived from birthday variable	1 = 65 to 70 2 = 71 to 74 3 = 75 to 76 4 = 77 to 79 5 = 80 to 84 6 = 85 to 94 7 = 95 and above	Character	1
ageind94	Age cohort of sample person using the reference date of 04/01/1994	0 = Enrollee is less than 75 years of age on 04/01/1994  1 = Enrollee is 75+ but less than 95 on 04/01/1994  2 = Enrollee is 95 or older on 04/01/1994	Numeric	8
ageref94	Enrollee age as of 04/01/1994 from HCFA date of birth		Numeric	8
basewgt94	1994 cross-sectional enrollee base weight		Numeric	8
birthday	Enrollee date of birth from the HCFA Master		Numeric (SAS date)	8

	Control File		value)	
cc_11	Reason for nonresponse in the detailed interview	01 = Unable to locate, moved, address unknown  02 = No one at home  03 = Sample person temporarily absent  04 = Refusal at institutional level  05 = Refusal at person level  06 = Sample person unable to respond  07 = Other Type A non-response  08 = Deceased  09 = In a correctional facility  10 = Moved outside country on or after April 1, 1994  11 = Moved within country beyond survey limits  12 = Other Type C non-response		
cn_1984	Sample component based on 1984 screening and detailed interviewing dispositions	1 = Detailed community interview in 1984  4 = Detailed institutional interview in 1984		

		<p>5 = Unimpaired in 1984</p> <p>6 = Less than 65 on 04/01/84 but 65 before 04/01/88</p> <p>7 = Unimpaired in 1984, 75 years and above and not selected for Component 5</p>		
dedisp94	Detailed interview disposition code	<p>1 = Detailed interview respondent</p> <p>2 = Detailed interview nonrespondent</p> <p>3 = Ineligible for detailed interview</p> <p>4 = Screened in but not administered detailed interview</p> <p>5 = Ineligible for screening interview</p> <p>6 = Screened out, noninstitutionalized and nondisabled</p> <p>7 = Classified as detailed interview respondent but missing disability data</p> <p>8 = Screening interview nonrespondent</p>	Numeric	8
denradj94	Detailed interview nonresponse adjustment factor		Numeric	8
denrwt94	Detailed interview weight with nonresponse		Numeric	8

	adjustment factor denradj94			
fincswt94	Final 1994 cross – sectional weight with poststratification adjustment factor postadj94		Numeric	8
finwt_stat	Presence of a positive Census 1994 detailed interview final weight	0 = 1994 final detailed interview weight is 0  1 = 1994 final detailed interview weight is greater than 0	Numeric	8
hs_code	Indicator whether sample person selected for the Healthy Subsample	H = Selected for the Healthy Subsample  O = Not selected for the Healthy Subsample	Character	1
l_sex	Enrollee sex from HCFA Master Control File	1 = Male  2 = Female	Character	1
inhm	Address of sampled person is that of a nursing home	1 = Yes  2 = No	Character	1
inoth	Address of sampled person is an institution that is not a nursing home	1 = Yes  2 = No	Character	1
intcat94	Detailed interview category for nonresponse adjustment	1 = Screening required and classified as institutional  2 = Screening required and classified as disabled  3 = Assigned to institutional interview in previous cycle	Character	1

		4 = Assigned to community interview in previous cycle		
intcell	Preliminary nonresponse weighting class for detailed interview	Weighting classes constructed by concatenating the intcat94, l_sex, agecat94, and region variables	Character	5
intcellrec	Final nonresponse weighting class for detailed interview		Character	4
nrcell	Preliminary nonresponse weighting class for screener interview	Weighting classes constructed by concatenating the sic94, subs94, racerec, l_sex, agecat94, and region variables	Character	6
nrcellrec	Final nonresponse weighting class for the screener interview		Character	6
nurse	Health professional on duty everyday at this address	1 = Yes 2 = No	Character	1
postadj94	Poststratification adjustment factor		Numeric	8
racerec	Race group derived from the HCFA_RACE variable found on the HCFA Master Control File	1 = White and unknown 2 = Black and other	Character	1
region	Census region	1 = Northeast 2 = Midwest 3 = South	Character	1

		4 = West		
scadl94	Screening status for the ability to perform activities of daily living without help (ADL)	1 = ADL disabled 2 = Not ADL disabled 5 = Possibly ADL disabled 6 = Possibly not ADL disabled 7 = Institutionalized 8 = IADL status undefined 9 = Ineligible	Numeric	8
scdisp94	Screeener disposition code	001 = Deceased 003 = Correctional institution 004 = Moved outside of the country 009 = Other ineligible 011 = Moved within country, beyond interviewing limits 012 = Other nonresponse 014 = Partial screener, disability status determined 114 = Partial screener, disability status determined, Type A nonrespondent 015 = Partial screener,	Character	3

		<p>no indication of disability</p> <p>115 = Partial screener, no indication of disability, Type A nonrespondent</p> <p>016 = Partial screener, some indication of disability</p> <p>116 = Partial screener, some indication of disability, Type A nonrespondent</p> <p>021 = Completed screener with status of nondisabled/ noninstitutionalized, in Healthy Subsample</p> <p>121 = Completed screener with status of nondisabled/ noninstitutionalized , Type A nonrespondent, in Healthy Subsample</p> <p>022 = Completed screener with status of nondisabled/ noninstitutionalized, not in Healthy Subsample</p> <p>121 = Completed screener with status of nondisabled/ noninstitutionalized , Type A nonrespondent, not in Healthy Subsample</p> <p>032 = Completed screener, screened in</p>		
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		<p>as disabled</p> <p>132 = Completed screener, screened in as disabled, Type A nonrespondent</p> <p>034 = Completed screener, screened in as institution- alized</p> <p>134 = Completed screener, screened in as institution- alized , Type A nonrespondent</p> <p>035 = Community interview in previous survey cycle</p> <p>135 = Community interview in previous survey cycle, Type A nonrespondent</p> <p>036 = Institutional interview in previous survey cycle</p> <p>136 = Institutional interview in previous survey cycle, Type A nonrespondent</p>		
sciadl94	Screening status for the ability to perform instrumental activities of daily living without help (IADL)	<p>1 = IADL disabled</p> <p>2 = Not IADL disabled</p> <p>5 = Possibly IADL disabled</p> <p>6 = Possibly not IADL disabled</p> <p>7 = Institutionalized</p>	Numeric	8

		8 = IADL status undefined 9 = Ineligible		
scinst94	Screening institutional status	1 = Long-term care institution 2 = Not in a long-term care institution 3 = In a long-term care institution – interviewer determination 4 = Not in a long-term care institution – interviewer determination 8 = Eligible but institutional status undefined 9 = Ineligible	Numeric	8
scn_15_a	Problem eating without help from another person or special equipment	1 = Yes 2 = No	Character	1
scn_15_b	Problem getting in and out of bed without help	1 = Yes 2 = No	Character	1
scn_15_c	Problem getting in and out of chairs without help	1 = Yes 2 = No	Character	1
scn_15_d	Problem walking around inside without help	1 = Yes 2 = No	Character	1
scn_15_e	Problem going outside without help from	1 = Yes	Character	1

	another person or special equipment	2 = No		
scn_15_f	Problem dressing without help	1 = Yes 2 = No	Character	1
scn_15_g	Problem bathing without help	1 = Yes 2 = No	Character	1
scn_15_h	Problem getting into the bathroom or using the toilet	1 = Yes 2 = No	Character	1
scn_15_i	Problem controlling bowel movements or urination	1 = Yes 2 = No	Character	1
scn_15_no	Count of NO responses in the items scn_15_a through scn_15_i		Numeric	8
scn_15_yes	Count of YES responses in the items scn_15_a through scn_15_i		Numeric	8
scn_16_a	Has had ADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_16_b	Expect ADL problems will last for next three months or longer	1 = Yes 2 = No	Character	1
scn_16_c	From beginning to end, ADL problems will last three months or longer	1 = Yes 2 = No	Character	1
scn_17_a	Able to prepare meals without help	1 = Yes 2 = No	Character	1

scn_17_b	Able to do laundry without help	1 = Yes 2 = No	Character	1
scn_17_c	Able to do light housework such as washing dishes without help	1 = Yes 2 = No	Character	1
scn_17_d	Able to shop for groceries without help	1 = Yes 2 = No	Character	1
scn_17_e	Able to manage money	1 = Yes 2 = No	Character	1
scn_17_f	Able to take medicine without help	1 = Yes 2 = No	Character	1
scn_17_g	Able to make telephone calls without help	1 = Yes 2 = No	Character	1
scn_17_no	Count of NO responses in the items scn_17_a through scn_17_g		Numeric	8
scn_17_yes	Count of YES responses in the items scn_17_a through scn_17_g		Numeric	8
scn_18	Disability or health problem keeps person from doing one or more ADLs	1 = Yes 2 = No	Character	1
scn_20a	Has had ADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_20b	Expect IADL problems will last for next three months or longer	1 = Yes 2 = No	Character	1

scn_20c	From beginning to end, IADL problems will last three months or longer	1 = Yes 2 = No	Character	1
scn_inin	Check item C on screener indicating whether sample person is in an institution	1 = Yes 2 = No	Character	1
scomp84	Sample component based on 1982 screening and detailed interviewing dispositions (from the 1984 NLTCS cross-sectional file)	A = Screener Type A noninterview, institutionalized after 04/01/1982  B = Screener Type C noninterview, institutionalized before 04/01/1982  C = Detailed interview or Type A nonresponse to detailed interview in 1982  S = Subsample of enrollees screened in 1982 as not impaired  T = Cohort who were less than 65 on 04/01/82	Character	1
sc_open	Availability of the enrollee for screening interview	1 = Enrollee available for contact with interviewer  2 = Enrollee not available for contact with interviewer	Character	1

		3 = Enrollee deceased		
scnradj94	Screener nonresponse adjustment factor		Numeric	8
scnrwt94	Screener weight with the nonresponse adjustment factor scnradj94			
scout94	Screener outcome code	1 = Screened in for detailed interview 3 = Ineligible 4 = Screened out, nondisabled/noninstitutionalized, not in Healthy Subsample 5 = Screened in, nondisabled/noninstitutionalized, in Healthy Subsample 8 = Screener nonrespondent	Numeric	8
screenstat	Reason for screener nonresponse derived from telephone and field screening procedures	Blank = Completed screener 01 = Unable to locate 02 = No one at home 03 = Temporarily absent 04 = Refused 05 = Unable to respond 06 = Other Type A noninterview 07 = Deceased	Character	2

		<p>08 = In a correctional facility</p> <p>09 = Moved outside the country before 04/01/1988</p> <p>10= Moved outside the country on or after 04/01/1988</p> <p>11 = Moved within country beyond survey limits</p> <p>12 = Other Type C noninterview</p>		
seq	Enrollee identification code	An enrollee's seq value stays constant across survey cycles	Numeric	5
sic94	1994 sample component based on 1989 screener and detailed interview dispositions	<p>1 = Detailed community interview in 1989</p> <p>4 = Detailed institutional interview in 1989</p> <p>5 = Subsample of nondisabled/noninstitutionalized in 1989</p> <p>6 = Less than 65 on 04/01/88 but 65 before 04/01/94</p> <p>7 = nondisabled/noninstitutionalized in 1989, 75+, and not selected in component 5 above</p> <p>8 = nondisabled/noninstitutionalized in 1984, 75+, and not selected in 1989</p>	Character	1

		9 = Supplemental sample of enrollees 95 years of age and above		
subs94	Reason for Medicare entitlement	1 = OASI 2 = Disability and/or renal	Character	1
sum_item15	Count of nonmissing responses to items scn_15_a through scn_15_i		Numeric	8
sum_item17	Count of nonmissing responses to items scn_17_a through scn_17_g		Numeric	8
survey	Interview status code	1 = Full community detailed interview 2 = Abbreviated community detailed interview, Healthy Subsample 3 = Abbreviated community detailed interview, not in Healthy Subsample 4 = Noninterview for detailed community interview 5 = Institutional interview 6 = Noninterview for Institutional Survey 7 = Screener interview only		

		8 = Screener noninterview		
tpoth_1	Type of institution	1 = Correctional 2 = Short stay hospital 3 = Mental 4 = Other	Character	1

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**Data Dictionary for the 1999 NLTC S Revised Cross-Sectional Weights File**

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Variable	Description	Category Descriptors	Type	Length
adl_flg_rev	Revised ADL flag - ADL_FLAG (whether or not there is one YES response in items SCN_15_A through SCN_15_I)	1 = At least one YES response to items 15a through 15i  2 = No YES responses to items 15a through 15i  Blank = No responses to any of the items 15a through 15i	Character	1
agecat99	Age category for enrollee derived from wgt_age variable	1 = 65 to 69 2 = 70 to 74 3 = 75 to 79 4 = 80 to 81 5 = 82 to 84 6 = 85 to 94 7 = 95 and above	Character	1
ageind99	Age cohort of sample person using the reference date of 04/01/1999	0 = Enrollee is less than 75 years of age on 04/01/1999  1 = Enrollee is 75+ but less than 95 on 04/01/1999  2 = Enrollee is 95+ but less than 100 on 04/01/1994  3 = Enrollee is 100 years of age or more on 04/01/1999	Numeric	8
basewgt99	1999 cross-sectional enrollee base weight		Numeric	8
cn_1984	Sample component	1 = Detailed community		

	based on 1984 screening and detailed interviewing dispositions	<p>interview in 1984</p> <p>4 = Detailed institutional interview in 1984</p> <p>5 = Unimpaired in 1984</p> <p>6 = Less than 65 on 04/01/84 but 65 before 04/01/88</p> <p>7 = Unimpaired in 1984, 75 years and above and not selected for Component 5</p>		
dedisp99	Detailed interview disposition code	<p>1 = Detailed interview respondent</p> <p>2 = Detailed interview nonrespondent</p> <p>3 = Ineligible for detailed interview</p> <p>4 = Screened in but not administered detailed interview</p> <p>5 = Ineligible for screening interview</p> <p>6 = Screened out, noninstitutionalized and nondisabled</p> <p>7 = Classified as detailed interview respondent but missing disability data</p> <p>8 = Screening interview nonrespondent</p>	Numeric	8
denradj99	Detailed interview nonresponse		Numeric	8

	adjustment factor			
denrwt99	Detailed interview weight with nonresponse adjustment factor denradj99		Numeric	8
fincswt99	Final 1999 cross – sectional weight with poststratification adjustment factor postadj99		Numeric	8
finwt_stat	Presence of a positive Census 1999 detailed interview final weight	0 = 1999 Census final detailed interview weight is 0  1 = 1999 Census final detailed interview weight is greater than 0	Numeric	8
hs_code	Indicator whether sample person selected for the Healthy Subsample	H = Selected for the Healthy Subsample  O = Not selected for the Healthy Subsample	Character	1
inhm	Address of sampled person is that of a nursing home	1 = Yes  2 = No	Character	1
inoth	Address of sampled person is an institution that is not a nursing home	1 = Yes  2 = No	Character	1
intcat99	Detailed interview category for nonresponse adjustment	1 = Screening required and classified as institutional  2 = Screening required and classified as disabled	Character	1

		3 = Assigned to institutional interview in previous cycle  4 = Assigned to community interview in previous cycle		
intcell	Preliminary nonresponse weighting class for detailed interview	Weighting classes constructed by concatenating the intcat99, sexrec, agecat99, and region variables	Character	5
intcellrec	Final nonresponse weighting class for detailed interview		Character	4
ltc_flag	Indicator that sample person resides in an institution	1 = Yes  2 = No	Character	1
nrcell	Preliminary nonresponse weighting class for screener interview	Weighting classes constructed by concatenating the sic94, subs99, racerec, sexrec, agecat99, and region variables	Character	6
nrcellrec	Final nonresponse weighting class for the screener interview		Character	6
nurse	Health professional on duty everyday at this address	1 = Yes  2 = No	Character	1
origsic94	1994 sample component based on 1989 screener and detailed interview dispositions (from the 1994 NLTC cross-sectional file)	1 = Detailed community interview in 1989  4 = Detailed institutional interview in 1989  5 = Subsample of	Character	1

		<p>nondisabled/noninstitutionalized in 1989</p> <p>6 = Less than 65 on 04/01/88 but 65 before 04/01/94</p> <p>7 = nondisabled/noninstitutionalized in 1989, 75+, and not selected in component 5 above</p> <p>8 = nondisabled/noninstitutionalized in 1984, 75+, and not selected in 1989</p> <p>9 = Supplemental sample of enrollees 95 years of age and above</p>		
outcome	Reason for nonresponse at screener and detailed interview stages	<p>201 = Completed detailed interview</p> <p>203 = Sufficient partial – detailed interview</p> <p>208 = Partial caregiver interview</p> <p>213 = Language problem – detailed interview</p> <p>214 = Unable to locate to obtain a detailed interview</p> <p>215 = Insufficient partial detailed interview</p> <p>216 = No one at home – detailed interview</p> <p>217 = Temporarily</p>		

		<p>absent – detailed interview</p> <p>218 = Refused –detailed interview</p> <p>219 = Other Type A nonresponse – detailed interview</p> <p>250 = Deceased at the time of the detailed interview</p> <p>251 = Moved out of the country - detailed interview</p> <p>260 = Moved, address unknown – detailed interview outcome</p> <p>301 = Completed screener interview</p> <p>313 = Language problem – screener interview</p> <p>314 = Unable to locate to obtain screener interview</p> <p>316 = No one at home – screener interview</p> <p>317 = Temporarily absent – screener interview</p> <p>318 = Refused – screener interview</p> <p>319 = Other Type A nonresponse – screener interview</p>		
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		<p>334 = Inmate at correctional facility</p> <p>350 = Deceased at the time of the screener interview</p> <p>351 = Moved out of the country – screener interview</p> <p>360 = Moved, address unknown – screener interview</p> <p>370 = Moved, new address outside of field representative’s assignment area</p>		
postadj99	Poststratification adjustment factor		Numeric	8
racerec	Race group derived from the RACE_CODE variable found on the HCFA Master Control File	<p>1 = White and unknown</p> <p>2 = Black and other</p>	Character	1
reclass	Reclassification of 1999 detailed interview respondent	<p>0 = Detailed interview respondent not reclassified</p> <p>1 = Detailed interview respondent reclassified as a nonrespondent</p>	Numeric	8
region	Census region	<p>1 = Northeast</p> <p>2 = Midwest</p> <p>3 = South</p> <p>4 = West</p>	Character	1

scadl99	Screening status for the ability to perform activities of daily living without help (ADL)	1 = ADL disabled 2 = Not ADL disabled  5 = Possibly ADL disabled  6 = Possibly not ADL disabled  7 = Institutionalized  8 = IADL status undefined  9 = Ineligible	Numeric	8
scdisp99	Screener disposition code	001 = Deceased  003 = Correctional institution  004 = Moved outside of the country  009 = Other ineligible  011 = Moved within country, beyond interviewing limits  012 = Other nonresponse  014 = Partial screener, disability status determined  114 = Partial screener, disability status determined, Type A nonrespondent  214 = Partial screener, disability status determined, but	Character	3

		<p>outcome code indicates sample person was screened out</p> <p>015 = Partial screener, no indication of disability</p> <p>115 = Partial screener, no indication of disability, Type A nonrespondent</p> <p>215 = Partial screener, no indication of disability, but outcome code indicates sample person was screened out</p> <p>016 = Partial screener, some indication of disability</p> <p>116 = Partial screener, some indication of disability, Type A nonrespondent</p> <p>216 = Partial screener, some indication of disability, but outcome code indicates sample person was screened out</p> <p>021 = Completed screener with status of nondisabled/ noninstitutionalized, in Healthy Subsample</p> <p>121 = Completed screener with status of nondisabled/ noninstitutionalized, Type A nonrespondent,</p>		
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		<p>in Healthy Subsample</p> <p>022 = Completed screener with status of nondisabled/ noninstitutionalized, not in Healthy Subsample</p> <p>121 = Completed screener with status of nondisabled/ noninstitutionalized , Type A nonrespondent, not in Healthy Subsample</p> <p>032 = Completed screener, screened in as disabled</p> <p>132 = Completed screener, screened in as disabled, Type A nonrespondent</p> <p>232 = Completed screener, met disability criteria, but outcome code indicates sample person was screened out</p> <p>034 = Completed screener, screened in as institution- alized</p> <p>134 = Completed screener, screened in as institution- alized , Type A nonrespondent</p> <p>234 = Completed screener, met institutionalized criteria,</p>		
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		<p>but outcome code indicates sample person was screened out</p> <p>035 = Community interview in previous survey cycle</p> <p>135 = Community interview in previous survey cycle, Type A nonrespondent</p> <p>235 = Community interview in previous survey cycle, but outcome code indicates sample person was screened out</p> <p>036 = Institutional interview in previous survey cycle</p> <p>136 = Institutional interview in previous survey cycle, Type A nonrespondent</p> <p>236 = Institutional interview in previous cycle, but outcome code indicates sample person was screened out</p>		
sciadl99	Screening status for the ability to perform instrumental activities of daily living without help (IADL)	<p>1 = IADL disabled</p> <p>2 = Not IADL disabled</p> <p>5 = Possibly IADL disabled</p> <p>6 = Possibly not IADL disabled</p> <p>7 = Institutionalized</p>	Numeric	8

		8 = IADL status undefined 9 = Ineligible		
scinst99	Screening institutional status	1 = Long-term care institution 2 = Not in a long-term care institution 3 = In a long-term care institution – interviewer determination 4 = Not in a long-term care institution – interviewer determination 8 = Eligible but institutional status undefined 9 = Ineligible	Numeric	8
scn_15_a	Problem eating without help from another person or special equipment	1 = Yes 2 = No	Character	1
scn_15_b	Problem getting in and out of bed without help	1 = Yes 2 = No	Character	1
scn_15_c	Problem getting in and out of chairs without help	1 = Yes 2 = No	Character	1
scn_15_d	Problem walking around inside without help	1 = Yes 2 = No	Character	1
scn_15_e	Problem going outside without help from	1 = Yes	Character	1

	another person or special equipment	2 = No		
scn_15_f	Problem dressing without help	1 = Yes 2 = No	Character	1
scn_15_g	Problem bathing without help	1 = Yes 2 = No	Character	1
scn_15_h	Problem getting into the bathroom or using the toilet	1 = Yes 2 = No	Character	1
scn_15_i	Problem controlling bowel movements or urination	1 = Yes 2 = No	Character	1
scn_15_no	Count of NO responses in the items scn_15_a through scn_15_i		Numeric	8
scn_15_yes	Count of YES responses in the items scn_15_a through scn_15_i		Numeric	8
scn_16a	Has had ADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_16b	Expect ADL problems will last for next three months or longer	1 = Yes 2 = No	Character	1
scn_16c	From beginning to end, ADL problems will last three months or longer	1 = Yes 2 = No	Character	1
scn_17_a	Able to prepare meals without help	1 = Yes 2 = No	Character	1

scn_17_b	Able to do laundry without help	1 = Yes 2 = No	Character	1
scn_17_c	Able to do light housework such as washing dishes without help	1 = Yes 2 = No	Character	1
scn_17_d	Able to shop for groceries without help	1 = Yes 2 = No	Character	1
scn_17_e	Able to manage money	1 = Yes 2 = No	Character	1
scn_17_f	Able to take medicine without help	1 = Yes 2 = No	Character	1
scn_17_g	Able to make telephone calls without help	1 = Yes 2 = No	Character	1
scn_17_no	Count of NO responses in the items scn_17_a through scn_17_g		Numeric	8
scn_17_yes	Count of YES responses in the items scn_17_a through scn_17_g		Numeric	8
scn_18_a	Disability or health problem keeps person from preparing meals	1 = Yes 2 = No	Character	1
scn_18_b	Disability or health problem keeps person from doing laundry	1 = Yes 2 = No	Character	1
scn_18_c	Disability or health problem keeps person from doing light	1 = Yes 2 = No	Character	1

	housework			
scn_18_d	Disability or health problem keeps person from shopping for groceries	1 = Yes 2 = No	Character	1
scn_18_e	Disability or health problem keeps person from managing money	1 = Yes 2 = No	Character	1
scn_18_f	Disability or health problem keeps person from taking medicine	1 = Yes 2 = No	Character	1
scn_18_g	Disability or health problem keeps person from making telephone calls	1 = Yes 2 = No	Character	1
scn_19	Has had IADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_20a	Has had ADL problems for three months or longer	1 = Yes 2 = No	Character	1
scn_20b	Expect IADL problems will last for next three months or longer	1 = Yes 2 = No	Character	1
scn_20c	From beginning to end, IADL problems will last three months or longer	1 = Yes 2 = No	Character	1
scn_inin	Check item C on screener indicating whether sample person is in an institution	1 = Yes 2 = No	Character	1
scomp84	Sample component based on 1982 screening and detailed	A = Screener Type A noninterview, institutionalized after	Character	1

	interviewing dispositions (from the 1984 NLTCS cross-sectional file)	04/01/1982  B = Screener Type C noninterview, institutionalized before 04/01/1982  C = Detailed interview or Type A nonresponse to detailed interview in 1982  S = Subsample of enrollees screened in 1982 as not impaired  T = Cohort who were less than 65 on 04/01/82		
sc_open	Availability of the enrollee for screening interview	1 = Enrollee available for contact with interviewer  2 = Enrollee not available for contact with interviewer  3 = Enrollee deceased	Character	1
scnradj99	Screener nonresponse adjustment factor		Numeric	8
scnrwt99	Screener weight with the nonresponse adjustment factor scnradj99			
scout99	Screener outcome code	1 = Screened in for detailed interview  3 = Ineligible	Numeric	8

		<p>4 = Screened out, nondisabled/noninstitutionalized, not in Healthy Subsample</p> <p>5 = Screened in, nondisabled/noninstitutionalized, in Healthy Subsample</p> <p>8 = Screener nonrespondent</p>		
seq	Enrollee identification code	An enrollee's seq value stays constant across survey cycles	Numeric	5
sexrec	Enrollee sex from HCFA Master Control File or previous survey cycles	<p>1 = Male</p> <p>2 = Female</p>	Character	1
sic99	1999 sample component based on 1994 screener and detailed interview dispositions	<p>1 = Detailed community interview in 1994</p> <p>4 = Detailed institutional interview in 1994</p> <p>5 = Subsample of nondisabled/noninstitutionalized in 1994</p> <p>6 = Less than 65 on 04/01/94 but 65 before 04/01/99</p> <p>7 = Nondisabled/noninstitutionalized in 1994, 75+, not selected in component 5 above</p> <p>8 = Nondisabled/noninstitutionalized in 1989 and not selected in 1994</p>		

		9 = Supplemental sample of enrollees 95 years of age and above		
subs99	Reason for Medicare entitlement	1 = OASI 2 = Disability and/or renal	Character	1
sum_item15	Count of nonmissing responses to items scn_15_a through scn_15_i		Numeric	8
sum_item17	Count of nonmissing responses to items scn_17_a through scn_17_g		Numeric	8
sum_item18	Count of nonmissing responses to items scn_18_a through scn_18_g		Numeric	8
survey	Interview status code	1 = Screener only 2 = Community Survey 3 = Community with Caregiver Survey 4 = Institutional interview 5 = Screener noninterview 6 = Detailed noninterview		
tpoth_1	Type of institution	1 = Correctional 2 = Short stay hospital	Character	1

		3 = Mental 4 = Other		
wgt_age	Enrollee age as of 04/01/1999		Numeric	8

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**Data Dictionary for the 2004 NLTCs Revised Cross-Sectional Weights File**

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Variable	Description	Category Descriptors	Type	Length
adl_flg_rev	Revised ADL flag - ADL_FLAG (whether or not there is one YES response in items SCN_15_A through SCN_15_I)	1 = At least one YES response to items 15a through 15i  2 = No YES responses to items 15a through 15i  Blank = No responses to any of the items 15a through 15i	Character	1
agecat04	Age category for enrollee derived from variable	1 = 65 to 69 2 = 70 to 74 3 = 75 to 79 4 = 80 to 84 5 = 85 to 94 6 = 95 and above	Character	1
age_group	Five-year categories based on a reference date of 04/01/2004	1 = 65 to 69 2 = 70 to 74 3 = 75 to 79 4 = 80 to 84 5 = 85 to 89 6 = 90 to 94 7 = 95 to 99 8 = 100 to 104 9 = 105 and above	Numeric	2
ageind04	Age cohort of sample person using the reference date of 04/01/2004	0 = Enrollee is less than 75 years of age on 04/01/2004  1 = Enrollee is 75+ but less than 95 on 04/01/2004  2 = Enrollee is 95+ but less than 100 on 04/01/2004	Numeric	8

		<p>3 = Enrollee is 100+ but less than 105 on 04/01/2004</p> <p>4 = Enrollee is 105 or older on 04/01/2004</p>		
basewgt04	2004 cross-sectional enrollee base weight		Numeric	8
cn_1984	Sample component based on 1984 screening and detailed interviewing dispositions	<p>1 = Detailed community interview in 1984</p> <p>4 = Detailed institutional interview in 1984</p> <p>5 = Unimpaired in 1984</p> <p>6 = Less than 65 on 04/01/84 but 65 before 04/01/88</p> <p>7 = Unimpaired in 1984, 75 years and above and not selected for Component 5</p>		
dedisp04	Detailed interview disposition code	<p>1 = Detailed interview respondent</p> <p>2 = Detailed interview nonrespondent</p> <p>3 = Ineligible for detailed interview</p> <p>4 = Screened in but not administered detailed interview</p> <p>5 = Ineligible for screening interview</p> <p>6 = Screened out, noninstitutionalized and</p>	Numeric	8

		nondisabled  7 = Classified as detailed interview respondent but missing disability data  8 = Screening interview nonrespondent		
denradj04	Detailed interview nonresponse adjustment factor		Numeric	8
denrwt04	Detailed interview weight with nonresponse adjustment factor denradj04		Numeric	8
dt_outcome	Outcome of the detailed interview	804 = Community interview completed, no caregiver survey  805 = Institutional interview completed  813 = Language problem  815 = Unable to locate after repeated attempts  818 = Refused  820 = Unable to obtain interview after repeated attempts  822 = Eligible proxy unavailable  824 = Institutional refusal  850 = Deceased	Numeric	3

		<p>899 = Requested to be removed from study in writing</p> <p>-5 = Appropriate skip</p> <p>-6 = Nonresponse</p>		
dt_reason	Reason that field representative cannot conduct a detailed interview	<p>1 = Inconvenient time</p> <p>2 = Temporarily absent</p> <p>3 = Sample person refused</p> <p>4 = Unable to locate after repeated attempts</p> <p>5 = Language problem, needs interpreter</p> <p>6 = Sample person physically, mentally able to respond</p> <p>7 = FR denied access to sample person by family member/staff</p> <p>8 = Correctional facility</p> <p>9 = Deceased</p> <p>10 = Eligible proxy not available</p> <p>11 = FR denied access by gatekeeper at a gated community</p> <p>12= No telephone available</p> <p>13 = Identification check – respondent is not</p>		

		<p>sample enrollee</p> <p>14 = Sample person in short-stay hospital</p> <p>15 = Type B other ineligible</p> <p>16 = Institutionalized at a different location</p> <p>17 = Moved outside the U.S.</p> <p>18 = No good address for location of sampled person</p> <p>19 = Further work needed</p> <p>20 = Known address inside FR assignment area</p> <p>21 = Known address outside of FR assignment area</p> <p>22 = Outside of survey limits</p> <p>23 = No one at home</p> <p>24 = Further authorization or on-site visit needed</p> <p>25 = Other</p> <p>99 = Failed screener completion check</p> <p>-5 = Appropriate skip</p> <p>-6 = Nonresponse</p>		
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fincswt04	Final 2004 cross – sectional weight with poststratification adjustment factor postadj04		Numeric	8
finwt_stat	Presence of a positive Census 2004 detailed interview final weight	0 = 1999 Census final detailed interview weight is 0  1 = 1999 Census final detailed interview weight is greater than 0	Numeric	8
group	Reason sample person receives a detailed instrument	1 = Received detailed instrument because in Healthy Subsample  2 = Received detailed instrument because ADL or IADL disabled  3 = Received detailed instrument because part of the longitudinal sample  4 = Received institutional instrument	Numeric	3
hs_code	Indicator whether sample person selected for the Healthy Subsample	H = Selected for the Healthy Subsample  Blank = Not selected for the Healthy Subsample	Character	1
I_sex	Enrollee sex from HCFA Master Control File	1 = Male  2 = Female	Numeric	3
intcat04	Detailed interview category for nonresponse adjustment	1 = Screening required and classified as institutional  2 = Screening required and classified as	Character	1

		disabled  3 = Assigned to institutional interview in previous cycle  4 = Assigned to community interview in previous cycle		
intcell	Preliminary nonresponse weighting class for detailed interview	Weighting classes constructed by concatenating the intcat04, I_sex, agecat99, and region variables	Character	5
intcellrec	Final nonresponse weighting class for detailed interview		Character	4
ltc_flag_spv	Indicator that sample person had an institutional interview	1 = Institutional interview  2 = Community interview	Character	1
nrcell	Preliminary nonresponse weighting class for screener interview	Weighting classes constructed by concatenating the sic5, subs04, racerec, I_sex, agecat04, and region variables	Character	6
nrcellrec	Final nonresponse weighting class for the screener interview		Character	6
origsic94	1994 sample component based on 1989 screener and detailed interview dispositions (from the 1994 NLTC cross-sectional file)	1 = Detailed community interview in 1989  4 = Detailed institutional interview in 1989  5 = Subsample of	Character	1

		<p>nondisabled/noninstitutionalized in 1989</p> <p>6 = Less than 65 on 04/01/88 but 65 before 04/01/94</p> <p>7 = nondisabled/noninstitutionalized in 1989, 75+, and not selected in component 5 above</p> <p>8 = nondisabled/noninstitutionalized in 1984, 75+, and not selected in 1989</p> <p>9 = Supplemental sample of enrollees 95 years of age and above</p>		
origsic99	<p>1999 sample component based on 1994 screening and detailed interviewing dispositions (from the 1999 NLTC cross-sectional file)</p>	<p>1 = detailed community interview in 1994</p> <p>4 = Detailed institutional interview in 1994</p> <p>5 = Subsample of persons found to be nondisabled/noninstitutionalized in 1994</p> <p>6 = Less than 65 on 04/01/94 but 65 before 04/01/99</p> <p>7 = Nondisabled/noninstitutionalized in 1994, 75+, and not selected for Component 5</p> <p>8 = Nondisabled/noninsti-</p>		

		tionalized in 1989, and not selected in 1994  9 = Supplemental sample of enrollees 95 years of age and above		
postadj04	Poststratification adjustment factor		Numeric	8
racerec	Race group derived from the RACE_CODE variable found on the HCFA Master Control File	1 = White and unknown 2 = Black and other	Character	1
region	Census region	1 = Northeast 2 = Midwest 3 = South 4 = West	Numeric	1
scadl04	Screening status for the ability to perform activities of daily living without help (ADL)	11 = ADL disabled 12 = Not ADL disabled 15 = Possibly ADL disabled 16 = Possibly not ADL disabled 18 = ADL status undefined 19 = Ineligible	Numeric	8
scdisp04	Screeener disposition code	001 = Deceased 003 = Correctional institution	Character	3

		<p>004 = Moved outside of the country</p> <p>009 = Other ineligible</p> <p>011 = Moved within country, beyond interviewing limits</p> <p>012 = Other nonresponse</p> <p>014 = Partial screener, disability status determined</p> <p>114 = Partial screener, disability status determined, Type A nonrespondent</p> <p>214 = Partial screener, disability status determined, but outcome code indicates sample person was screened out</p> <p>015 = Partial screener, no indication of disability</p> <p>115 = Partial screener, no indication of disability, Type A nonrespondent</p> <p>215 = Partial screener, no indication of disability, but outcome code indicates sample person was screened out</p> <p>016 = Partial screener, some indication of disability</p>		
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		<p>116 = Partial screener, some indication of disability, Type A nonrespondent</p> <p>216 = Partial screener, some indication of disability, but outcome code indicates sample person was screened out</p> <p>021 = Completed screener with status of nondisabled/ noninstitutionalized, in Healthy Subsample</p> <p>121 = Completed screener with status of nondisabled/ noninstitutionalized , Type A nonrespondent, in Healthy Subsample</p> <p>022 = Completed screener with status of nondisabled/ noninstitutionalized, not in Healthy Subsample</p> <p>121 = Completed screener with status of nondisabled/ noninstitutionalized , Type A nonrespondent, not in Healthy Subsample</p> <p>032 = Completed screener, screened in as disabled</p> <p>132 = Completed</p>		
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		<p>screener, screened in as disabled, Type A nonrespondent</p> <p>232 = Completed screener, met disability criteria, but outcome code indicates sample person was screened out</p> <p>034 = Completed screener, screened in as institution- alized</p> <p>134 = Completed screener, screened in as institution- alized , Type A nonrespondent</p> <p>234 = Completed screener, met institutionalized criteria, but outcome code indicates sample person was screened out</p> <p>035 = Community interview in previous survey cycle</p> <p>135 = Community interview in previous survey cycle, Type A nonrespondent</p> <p>235 = Community interview in previous survey cycle, but outcome code indicates sample person was screened out</p> <p>036 = Institutional interview in previous</p>		
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		<p>survey cycle</p> <p>136 = Institutional interview in previous survey cycle, Type A nonrespondent</p> <p>236 = Institutional interview in previous cycle, but outcome code indicates sample person was screened out</p>		
sciadl04	Screening status for the ability to perform instrumental activities of daily living without help (IADL)	<p>11 = IADL disabled</p> <p>12 = Not IADL disabled</p> <p>15 = Possibly IADL disabled</p> <p>16 = Possibly not IADL disabled</p> <p>18 = IADL status undefined</p> <p>19 = Ineligible</p>	Numeric	8
scinst04	Screening institutional status	<p>11 = Personal visit by field representative, person in long-term care institution</p> <p>12 = Personal visit by field representative, person not in a long-term care institution</p> <p>13 = In a long-term care institution – determination by telephone</p> <p>14 = Not in a long-term care institution – determi-</p>	Numeric	8

		<p>nation by telephone</p> <p>15 = In a long-term institution - other determination</p> <p>16 = Not in a long-term institution – other determination</p> <p>18 = Institutional status undefined</p> <p>19 = Ineligible</p>		
scn_15_a	Problem eating without help from another person or special equipment	<p>1 = Yes</p> <p>2 = No</p> <p>3 = Can't / Don't do</p> <p>-8 = Don't know</p> <p>-9 = Refused</p>	Numeric	2
scn_15_b	Problem getting in and out of bed without help	<p>1 = Yes</p> <p>2 = No</p> <p>3 = Can't / Don't do</p> <p>-8 = Don't know</p> <p>-9 = Refused</p>	Numeric	2
scn_15_c	Problem getting in and out of chairs without help	<p>1 = Yes</p> <p>2 = No</p> <p>3 = Can't / Don't do</p> <p>-8 = Don't know</p> <p>-9 = Refused</p>	Numeric	2

scn_15_d	Problem walking around inside without help	1 = Yes 2 = No 3 = Can't / Don't do -8 = Don't know -9 = Refused	Numeric	2
scn_15_e	Problem going outside without help from another person or special equipment	1 = Yes 2 = No 3 = Can't / Don't do -8 = Don't know -9 = Refused	Numeric	2
scn_15_f	Problem dressing without help	1 = Yes 2 = No 3 = Can't / Don't do -8 = Don't know -9 = Refused	Numeric	2
scn_15_g	Problem bathing without help	1 = Yes 2 = No 3 = Can't / Don't do -8 = Don't know -9 = Refused	Numeric	2
scn_15_h	Problem getting into the bathroom or using the toilet	1 = Yes 2 = No 3 = Can't / Don't do	Numeric	2

		-8 = Don't know -9 = Refused		
scn_15_i	Problem controlling bowel movements or urination	1 = Yes 2 = No 3 = Can't /Don't do -8 = Don't know -9 = Refused	Numeric	2
scn_15_no	Count of NO responses in the items scn_15_a through scn_15_i		Numeric	8
scn_15_yes	Count of YES responses in the items scn_15_a through scn_15_i		Numeric	8
scn_16a	Has had ADL problems for three months or longer	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	2
scn_16b	Expect ADL problems will last for next three months or longer	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	2
scn_16c	From beginning to end, ADL problems will last three months or longer	1 = Yes 2 = No -8 = Don't know	Numeric	2

		-9 = Refused		
scn_17_a	Able to prepare meals without help	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_17_b	Able to do laundry without help	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_17_c	Able to do light housework such as washing dishes without help	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_17_d	Able to shop for groceries without help	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_17_e	Able to manage money	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_17_f	Able to take medicine without help	1 = Yes 2 = No	Numeric	3

		-8 = Don't know -9 = Refused		
scn_17_g	Able to make telephone calls without help	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_17_no	Count of NO responses in the items scn_17_a through scn_17_g		Numeric	8
scn_17_yes	Count of YES responses in the items scn_17_a through scn_17_g		Numeric	8
scn_18_a	Disability or health problem keeps person from preparing meals	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_18_b	Disability or health problem keeps person from doing laundry	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_18_c	Disability or health problem keeps person from doing light housework	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3

scn_18_d	Disability or health problem keeps person from shopping for groceries	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_18_e	Disability or health problem keeps person from managing money	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_18_f	Disability or health problem keeps person from taking medicine	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_18_g	Disability or health problem keeps person from making telephone calls	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_19	Has had IADL problems for three months or longer	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scn_20a	Expect IADL problems will last for next three months or longer	1 = Yes 2 = No -8 = Don't know	Numeric	3

		-9 = Refused		
scn_20b	From beginning to end, IADL problems will last three months or longer	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
sc_nurse	Health professional on duty everyday at the address of sample person	1 = Yes 2 = No -8 = Don't know -9 = Refused	Numeric	3
scomp84	Sample component based on 1982 screening and detailed interviewing dispositions (from the 1984 NLTCS cross-sectional file)	A = Screener Type A noninterview, institutionalized after 04/01/1982 B = Screener Type C noninterview, institutionalized before 04/01/1982 C = Detailed interview or Type A nonresponse to detailed interview in 1982 S = Subsample of enrollees screened in 1982 as not impaired T = Cohort who were less than 65 on 04/01/82	Character	1

scnradj04	Screener nonresponse adjustment factor		Numeric	8
scnrwt04	Screener weight with the nonresponse adjustment factor scnradj04		Numeric	8
sc_outcome	Outcome of the screener interview	401 = Screener completed – screened out 402 = Temporary nonresponse code 403 = Abbreviated screener for personal visit at institution 405 = Screener completed – screened in 413 = Language problem 414 = Unable to locate after repeated attempts 418 = Refused 420 = Unable to obtain interview after repeated attempts 422 = Eligible proxy unavailable 424 = Institutional refusal 435 = Ineligible for interview 450 = Deceased 451 = Moved outside	Numeric	3

		<p>survey limits</p> <p>499 = Requested to be removed from study in writing</p> <p>-5 = Appropriate skip</p> <p>-6 = Nonresponse</p>		
sc_reason	Reason that field representative cannot obtain a screener interview	<p>1 = Inconvenient time</p> <p>2 = Temporarily absent</p> <p>3 = Sample person refused</p> <p>4 = Unable to locate after repeated attempts</p> <p>5 = Language problem, needs interpreter</p> <p>6 = Sample person physically/mentally unable to respond</p> <p>7 = FR denied access to sample person by family member/staff</p> <p>8 = Correctional facility</p> <p>9 = Deceased</p> <p>10 = Eligible proxy not available</p> <p>11 = FR denied access by gatekeeper at gated community</p> <p>12 = No telephone available</p> <p>13 = Identification check</p>	Numeric	3

		<p>– respondent is not sample enrollee</p> <p>14 = Sample person in short-stay hospital</p> <p>15 = Type B other ineligible</p> <p>16 = Institutionalized at a different location</p> <p>17 = Moved outside the U.S.</p> <p>18 = No good address for location of sampled person</p> <p>19 = Further work needed</p> <p>20 = Known address inside FR assignment area</p> <p>21 = Known address outside of FR assignment area</p> <p>22 = Outside of survey limits</p> <p>23 = No one home</p> <p>24 = Other</p> <p>99 = Failed screener completion check</p> <p>-5 = Appropriate skip</p> <p>-6 = Nonresponse</p>		
scout04	Screener outcome code	1 = Screened in for detailed interview	Numeric	8

		<p>3 = Ineligible</p> <p>4 = Screened out, nondisabled/noninstitutionalized, not in Healthy Subsample</p> <p>5 = Screened in, nondisabled/noninstitutionalized, in Healthy Subsample</p> <p>8 = Screener nonrespondent</p>		
sc_unrel	Three or more unrelated persons at this address	<p>1 = Yes</p> <p>2 = No</p> <p>-8 = Refused</p> <p>-9 = Don't Know</p>	Numeric	3
seq	Enrollee identification code	An enrollee's seq value stays constant across survey cycles	Numeric	5
s_rnhelp	Receive medical care from a health professional on a regular basis	<p>1 = Yes</p> <p>2 = No</p> <p>-8 = Don't know</p> <p>-9 = Refused</p>	Numeric	3
sic5	2004 sample component based on 1999 screener and detailed interview dispositions	<p>1 = Detailed community interview in 1999</p> <p>4 = Detailed institutional interview in 1999</p> <p>5 = Subsample of nondisabled/noninstitutionalized in 1999</p>	Character	24

		<p>6 = Less than 65 on 04/01/99 but 65 before 04/01/2004</p> <p>7 = Nondisabled/noninstitutionalized in 1999, 75+, not selected in component 5 above</p> <p>8 = Nondisabled/noninstitutionalized in 1994 and not selected in 1999</p> <p>9 = Supplemental sample of enrollees 95 years of age and above</p>		
subs04	Reason for Medicare entitlement	<p>1 = OASI</p> <p>2 = Disability and/or renal</p>	Character	1
sum_item15	Count of nonmissing responses to items scn_15_a through scn_15_i		Numeric	8
sum_item17	Count of nonmissing responses to items scn_17_a through scn_17_g		Numeric	8
survey04	Interview status code	<p>1 = Screened out</p> <p>2 = Detailed Community Survey</p> <p>3 = Detailed Community Survey with Caregiver Survey</p> <p>4 = Institutional interview</p>	Numeric	1

		5 = Screener noninterview		
		6 = Detailed noninterview		