



# IOWA FOUNDATION FOR MEDICAL CARE

**STRIVE PROJECT**

## **Staff Time and Resource Intensity Verification**

**Appendices**

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## A-1: Sampling Steps

### Step 1: Identify All Certified Facilities

CMS's QIES national MDS data repository served as the source for building a sampling frame of all certified nursing homes in the nation. Nursing homes are required to submit MDS assessment and tracking form records for all residents regardless of payor source who reside on certified nursing units. This includes residents whose stays are paid by Medicare and/or Medicaid as well as other payor sources (such as the Department of Veterans Affairs, private payment, etc.). Approximately 16 million MDS records are received by the national repository each year.

Sampling frames were built at two separate points in time using two different files of MDS data. The first sampling frame was used to select facilities for the first seven states that participated in the study. A second sampling frame was built to draw samples for the remaining eight states. This was done so that the sampling frame would be as current as possible when the samples were drawn.

The logic used to develop each sampling frame was the same. For each MDS data file, a date of interest (the "index date") was established. Data for each resident within each facility were processed to identify residents who appeared to be active (i.e., present in the facility) on that index date. Facilities with at least one active resident on the index date were included in the sampling frame.

The steps involved in identifying active residents were as follows. Facilities are required to submit an assessment record for every resident at least every 90 days (although records are often submitted more frequently). The active residents in a facility were therefore identified by examining MDS data for each combination of resident and facility for a 100 day period ending with an index date (a 100 day period was used to allow a grace period over the 90 day requirement). Residents were considered active in a facility if they had at least one record during this 100 day time period and if their last record during this period was not a discharge record. Records during the month following the index date were also examined to identify cases that occurred after the index date but had an admission date during the 100 day time period of interest. If that admission date was not followed by a discharge before or on the index date, the resident was considered active.

Table 1 summarizes the characteristics of the data files that were used to build the two sampling frames.

**Table 1. Characteristics of Sampling Frames**

Characteristic	Sampling Frame 1	Sampling Frame 2
Date the MDS data were pulled from the national repository	February, 2006	June, 2006
End date of data set	November 30, 2005	March 31, 2006
Index date (end of 100 day period)	October 31, 2005	February 28, 2006
Beginning of 100 day period	July 24, 2005	November 21, 2006
Active residents identified	1,428,993	1,424,386
Facilities with active residents	15,965	15,911
States sampled with frame	IA, KY, MT, NY, OH, SD, WA	DC, FL, IA <sup>1</sup> , IL, LA, MI, NV, TX, VA

It can be seen that the index date for the first sampling frame was October 31, 2005, while the index date for the second sampling frame was four months later: February 28, 2006. Table 1 also shows that both sampling frames had very similar counts of the number of active residents (approximately 1.4 million) and the

<sup>1</sup> Near the end of the study, a supplemental sample of facilities in Iowa was drawn using the second sampling frame.

number of facilities with active residents (nearly 16,000). Table 1 also shows the study states for which each of the sampling frames was used.

### Step 2: Identify Participating States

Representatives from all states were contacted about participating in the study. Many states expressed an interest in the study, but some were unable to participate due to budget or other constraints. A total of 15 states agreed to participate and were able to provide enough volunteer staff to supervise data collection.

### Step 3: Apply Data-Based Exclusions

As described above, two data sets were used to exclude poor quality facilities from the state sampling frames: QI/QM data and survey/complaint deficiency data. The approach that was taken with each of these data sets is described below.

#### ***QI/QM Data***

CMS's QIES data repository contains a database of 34 QI/QM measures that are computed on a monthly basis for all certified nursing facilities in the nation. Measures for both post-acute (short-stay) and chronic-care (long-term care) residents are included in this database. Some measures are risk-adjusted while others are not.

This database served as one of the two data sources for identifying facilities with poor quality. The concept behind the QI/QM exclusions was to create a composite score from the individual measures and to rank order facilities within each state on the basis of this composite measure in order to identify the poorest performers.

Experts who have been involved in the development of QIs and QMs for nursing homes were consulted and a consensus approach was developed for creating and using such a composite measure. Based upon this advice, 10 measures were selected to form the basis for the composite measure. These individual measures are listed in Table 2, below. Table 2 also shows the resident population to which each measure applies (chronic care vs. post-acute care) as well as whether or not each measure is risk adjusted.

**Table 2. QI/QMs Included in Composite Measure**

<b>Measure Name</b>	<b>Type of Resident</b>	<b>Risk Adjusted?</b>
Incidence of cognitive impairment	Chronic care	No
Residents whose need for help with daily activities has increased	Chronic care	No
Residents whose ability to move in and around their room got worse	Chronic care	Yes
High-risk residents with pressure ulcers	Chronic care	No
Low-risk residents with pressure ulcers	Chronic care	No
Residents who have/had a catheter inserted and left in their bladder	Chronic care	Yes
Residents with urinary tract infection	Chronic care	No
Residents who were physically restrained.	Chronic care	No
Short stay residents with delirium	Post-acute care	Yes
Short-stay residents who had moderate to severe pain.	Post-acute care	No

The steps involved in creating the composite measure were as follows:

1. For each facility in the nation, QI/QM statistics were extracted from the QIES repository for each of the measures listed in Table 2. The QIES repository contains monthly QI/QM statistics for each measure. Each month's statistics are based upon a six-month reporting period. The QI/QM pull occurred in February, 2006 for the first sampling frame. At that time, the most recent QI/QM

statistics were for the six-month reporting period ending in November, 2005. Statistics were obtained for this reporting period, as well as for the two earlier reporting dates separated by three months each in order to measure facility QI/QM performance over time. For the first sampling frame, the three sets of QI/QM data had the following end dates:

- May, 2005
- August, 2005
- November, 2005

For the second sampling frame, QI/QM statistics were pulled in June, 2006 and the most recent reporting period ended in March, 2006. The three QI/QM reporting periods for the second sampling frame had the following end dates:

- September, 2005
- December, 2005
- March, 2006

The statistics that were selected were the observed percent triggered for measures that are not risk adjusted and the adjusted percent triggered for the risk-adjusted measures.

2. For each measure within each facility, two weighted averages were computed. The uncensored weighted average was computed as an average observed or risk-adjusted percent triggered across the three reporting periods with the value for a reporting period being weighted by the number of cases in the denominator for that reporting period. The second weighted average, the censored weighted average, was identical to the uncensored average except that it was set to missing if the total denominator across the three reporting periods fell below a minimum value. The minimum value was 90 cases for chronic care measures, and 60 for post-acute care measures. These values correspond to the standard values that are used for the two types of measures on Nursing Home Compare, except that they are multiplied by three because data from three different reporting periods were used.
3. The censored weighted averages for each of the 10 measures were rank ordered across all facilities in each state and the 75<sup>th</sup> percentile was ascertained for each measure within each state. These values identified the 25% of facilities with the highest (worst) composite score on each of the 10 measures within each state. The censored values were used to compute the percentiles so that unstable values for small facilities would not affect the distributions.
4. For each facility, each of its 10 uncensored weighted averages were compared with the 75<sup>th</sup> percentile for its state to determine whether or not each of its measure scores exceeded the 75<sup>th</sup> percentile cutoff. For each facility, a composite QI/QM score equal to the number of measures that exceeded the cutoffs was computed. Note that uncensored weighted averages were used for this step. The reason for this is that even though a particular weighted average with a low denominator might be unstable and might exceed the 75<sup>th</sup> percentile by chance alone, it was unlikely that this would be true across all 10 measures.
5. Frequency distributions of the facility composite QI/QM scores were created for each state, showing the number of facilities that had 1, 2, 3, etc. measures that exceeded the 75<sup>th</sup> percentile.
6. This frequency distribution was examined for each state to determine a 5% exclusion cut-point. This cut-point was the highest composite score with 5% or more of the facilities at or above that score.
7. In each state, all facilities at or above the 5% cut-point were excluded from the sampling frame<sup>2</sup>.

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<sup>2</sup> Note that this method excluded slightly more than 5% of the facilities in most states.

### **Survey/Complaint Deficiency Data**

CMS's Special Focus Facility (SFF) algorithm is computed periodically and is used to identify a small number of facilities within each state that receive more intensive inspections and monitoring. The algorithm produces a score for each facility in the nation based upon its survey and complaint deficiency history. For STRIVE, SFF scores that were calculated by CMS were examined within each state and an exclusion cut-point was set at the highest SFF score with 5% or more of the facilities at or above that cut-point for the state. In each state, all facilities at or above the 5% cut-point were excluded from the sampling frame. For the first sampling frame, SFF scores that were computed in December, 2005 were used. For the second sampling frame, SFF scores that were calculated in June, 2006 were used.

SFF scores are computed as follows<sup>3</sup>. Points are assigned to standard surveys and complaint surveys based on scope and severity of deficiencies and the number of deficiencies. Deficiencies with scope and severity of D through L are assigned a weight ranging from 2 to 150, with weights increased in situations where a survey has identified substandard quality (see Table 3). A second factor in the score is a remedial indicator that is calculated based on the number of revisits required to confirm correction of deficiencies at scope and severity level F or greater. Points are assigned for the second, third, and fourth revisits. If a provider fails to correct major deficiencies at the time of the first revisit, then these additional revisit points are assigned.

These two factors are evaluated for the current standard survey in conjunction with the complaint deficiencies cited in the prior year, and for the two annual periods prior to the current standard survey. The time periods are then differentially weighted, with the most recent period being assigned a weighting factor of 1, the previous period assigned a weighting factor of 0.5, and the period before that assigned a weighting factor of 0.25. The weighted time period scores are then summed to create a compliance score (the SFF score) for each facility.

**Table 3. SFF Scope and Severity Scores**

Scope and Severity	Does the Deficiency Indicate Substandard Quality of Care?	
	No	Yes
A	0	0
B	0	0
C	0	0
D	2	2
E	4	4
F	6	10
G	10	10
H	20	25
I	30	35
J	50	75
K	100	125
L	150	175

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<sup>3</sup> The description that follows as well as Table 4 are drawn verbatim from *Development and Validation of a Nursing Facility Performance Measure Based on Survey Data*, University of Colorado Health Sciences Center, August 23, 2007, pages 4-5.

### **Number of Facilities Excluded From the State Sampling Frames**

The two data based exclusion methods (QI/QM score and SFF score) each identified approximately 5% of the facilities within each state for exclusion from the sampling frame. Facilities were excluded if they were identified by either, or both, of the methods. Thus, the number of facilities that could be excluded ranged from 5% (if the two methods always agreed) to 10% (if they never agreed).

**Table 4. Number of Facilities in Initial and Final Sampling Frames**

<b>State</b>	<b>Sampling Frame</b>	<b>Certified Facilities</b>	<b>Excluded Facilities</b>	<b>Eligible Facilities Remaining</b>	<b>Percent of Facilities Excluded</b>
District of Columbia	2	20	2	18	10.0%
Florida	2	680	66	614	9.7%
Illinois	2	798	59	739	7.4%
Iowa	1	455	38	417	8.4%
Kentucky	1	295	27	268	9.2%
Louisiana	2	279	26	253	9.3%
Michigan	2	425	30	395	7.1%
Montana	1	98	8	90	8.2%
Nevada	2	46	4	42	8.7%
New York	1	659	59	600	9.0%
Ohio	1	970	78	892	8.0%
South Dakota	1	111	6	105	5.4%
Texas	2	1,132	109	1,023	9.6%
Virginia	2	278	27	251	9.7%
Washington	1	247	24	223	9.7%
<b>All Participating States</b>		<b>6,493</b>	<b>563</b>	<b>5,930</b>	<b>8.7%</b>

Table 4 above shows the number of certified facilities within each of the 15 participating states that were in the initial sampling frame, that were excluded, and the number of facilities that remained (this group will be referred to as “eligible facilities” in the discussion below). The percent of facilities that were excluded is also shown.

It can be seen that the percent of facilities excluded ranged from a low of 5.4% (South Dakota) to a high of 10.0% (District of Columbia). Across all 15 states, there were a total of 6,493 certified facilities of which 563 (8.7%) were excluded. After exclusions, there were a total of 5,930 eligible facilities in the 15 states.

### **Step 4: Apply Geographic Restrictions**

As noted above, some states agreed to participate but only if the study area could be geographically restricted. In these states, a set of suitable counties was identified and the population of eligible facilities was redefined to include only those facilities that were located in those counties. Table 5 below shows the total number of counties and eligible facilities in each state and the number that were included in the sampling frames after geographic restrictions were applied. The four states with geographic restrictions are shaded in yellow in this table.

**Table 5. Eligible Facilities Remaining After Geographic Restrictions Applied**

State	Statewide		Number in Study Area		Percent in Study Area	
	Counties	Eligible Facilities	Counties	Eligible Facilities	Counties	Eligible Facilities
District of Columbia	1	18	1	18	100.0%	100.0%
District of Columbia	1	18	1	18	100.0%	100.0%
Florida	67	614	14	206	20.9%	33.6%
Illinois	102	739	12	335	11.8%	45.3%
Iowa	99	417	99	417	100.0%	100.0%
Kentucky	120	268	120	268	100.0%	100.0%
Louisiana	64	253	10	51	15.6%	20.2%
Michigan	83	395	83	395	100.0%	100.0%
Montana	56	90	56	90	100.0%	100.0%
Nevada	17	42	17	42	100.0%	100.0%
New York	62	600	62	600	100.0%	100.0%
Ohio	88	892	88	892	100.0%	100.0%
South Dakota	66	105	66	105	100.0%	100.0%
Texas	254	1,023	173	884	68.1%	86.4%
Virginia	134	251	134	251	100.0%	100.0%
Washington	39	223	39	223	100.0%	100.0%
<b>All Participating States</b>	<b>1,252</b>	<b>5,930</b>	<b>974</b>	<b>4,777</b>	<b>77.8%</b>	<b>80.6%</b>

This second and third columns in the table show statewide counts of the number of counties and eligible facilities (the number of eligible facilities in the third column matches the fifth column of Table 4). Table 5 also shows the number and percent of counties and eligible facilities that were included in the study area for each state. For most states, 100% of the counties and eligible facilities were included in the final sampling frame. For four states, Florida, Illinois, Louisiana, and Texas, a subset of counties were defined as the study area. The counties selected tended to be more populous. Therefore the percent of facilities in the study area within each state exceeded the percent of counties that were included. It can be seen at the bottom of the table that after all exclusions and geographic restrictions were applied, there were 4,777 eligible facilities in the final sampling frame across the 15 states.

### Step 5: Stratify Eligible Facilities

During the planning phase of the study, project staff consulted with the project's Technical Expert Panel (TEP) to identify special populations of residents which merited special consideration during the classification analysis and which might require targeted sampling. In order to benefit from targeted sampling, a special population had to meet all of the following criteria:

- It had to be of sufficient importance (e.g., require very costly or intensive care) to warrant targeted sampling.
- It had to be sufficiently rare to require special sampling. Some special populations were found to be common enough that special targeting was not required to obtain a reasonable number of cases.

- Residents that qualified for the special population had to be sufficiently concentrated in a subgroup of facilities so that targeting would be successful in increasing their representation in the sample. Residents in some of the very rare special population groups were found to be scattered in small numbers across facilities. Even if those facilities were over-represented in the sample, a sufficient number of cases would still not be obtained to support analyses of the data for those groups.
- Targeting had to be operationally feasible. An existing data source (such as the MDS, OSCAR, or Medicare claims data) had to exist for identifying special population groups. Additionally, the prevalence of special population groups within facilities had to be stable over time so that groups could be accurately targeted despite the time lag that is inherent in existing data sources.

A literature review and discussions with experts yielded a list of potentially important special population groups. The TEP was consulted to narrow the list to 23 groups that were considered important enough to warrant further examination. MDS data were analyzed to determine the relative prevalence of each group nationally and to determine how concentrated members of the groups were among facilities. Based upon these analyses and discussions, four groups were selected for targeting: (a) hospital-based facilities, (b) residents on ventilators or respirators, (c) residents with HIV, and (d) residents whose stays were paid by Medicare Part A.

Targeting of these groups was achieved by stratifying every eligible facility in each state into one of five groups (four special population groups plus a fifth group representing all other facilities). The four special population groups were then over-sampled so that enough cases in each group would be obtained to support the planned data analysis.

The following sections discuss the definitions of each of the strata and their prevalence in the national population based upon an analysis of the data used for the first sampling frame. These analyses included all residents in a facility on the October 1, 2005 index date.

### ***Hospital-Based Facilities***

Hospital-based facilities were identified using OSCAR data, which are based upon each facility's latest annual survey. Using these data, 1,369 (8.6%) out of a total of 15,966 certified facilities nationally were identified as hospital-based. There were 66,299 residents in HB facilities, representing 4.6% of all residents nationally.

### ***Facilities with a High Proportion of Ventilator/Respirator Residents***

Residents were identified as being on a ventilator or respirator based upon MDS item P1a. Based upon this item, 5,365 (0.4%) out of 1,428,993 residents in certified facilities nationally were on ventilators or respirators. There were 1,196 facilities (7.5%) that had at least one ventilator/respirator resident. However many of these facilities had only a handful of ventilator/respirator residents. Therefore, a cutoff was set to identify facilities with relatively high concentrations of such residents. Facilities in which 12% or more of residents were ventilator/respirator residents were designated as Hi-Vent facilities. Nationally, 152 facilities (12.7% of the 1,196 facilities with one or more ventilator/respirator residents) qualified for this stratum. These 152 facilities had 2,184 (40.7%) of the 5,265 ventilator/respirator residents in the nation.

### ***Facilities with a High Proportion of HIV Residents***

Residents were identified as having HIV infections based upon MDS item I2d. Because some states prohibit reporting of HIV status, prevalence statistics based upon this item are known to be low. However, this is the only source of information available for nursing home residents nationally.

Based upon item I2d, 2,566 (0.2%) out of 1,428,993 residents in certified facilities nationally have HIV infections. There were 758 facilities (4.8%) that reported at least one HIV resident. As with the Hi-Vent facilities, many of these facilities had only a handful of HIV residents and a cutoff was therefore established to identify facilities with relatively high concentrations of qualifying residents. Facilities in which 10% or more of the residents had HIV were designated as Hi-HIV facilities. Nationally, 27 facilities

(3.6% of the 758 facilities with one or more HIV residents) qualified for this stratum. These 27 facilities had 1,107 (43.1%) of the 2,566 residents nationally who were reported to have HIV.

### ***Facilities with a High Proportion of Part A Residents***

National Medicare claims history data were used to identify residents who had ongoing Part A stays on the index date associated with the first sampling frame (October 31, 2005). Using these data, 176,342 (12.3%) of 1,428,993 residents in certified facilities nationally were identified as being in Part A stays. There were 13,588 (85.1%) facilities that had at least one Part A resident, but again, many facilities had small numbers of such residents.

Facilities in which 20% or more of the residents were in Part A stays were designated as Hi-PartA facilities. Nationally, 3,019 facilities (22.2% of the 13,588 facilities with one or more Part A residents) qualified for this stratum. These 3,019 facilities had 68,009 (38.6%) of the 176,342 residents nationally who were in a Part A stay.

### ***Distribution of Eligible Facilities by Stratum***

Some facilities qualified for more than one stratum. These facilities were classified hierarchically, in the order listed above. Thus, if a facility qualified for the HB stratum, it was assigned to that stratum even if it also qualified for another stratum later in the list. If a facility did not qualify for any of these strata, it was assigned to the “other” stratum.

Table 6 below shows the number of eligible facilities in each state’s sampling frame that were classified into each of the five strata: hospital-based (HB), high concentration of ventilator/respirator residents (Hi-Vent), high concentration of HIV residents (Hi-HIV), high concentration of Part A residents (Hi-PartA), and all other facilities (Other).

**Table 6. Number of Eligible Facilities in Sampling Frame by Stratum and State**

State	Stratum					Total
	HB	Hi-Vent	Hi-HIV	Hi-PartA	Other	
District of Columbia	4	0	0	0	14	18
Florida	4	0	2	106	94	206
Illinois	21	6	0	75	233	335
Iowa	42	0	0	12	363	417
Kentucky	35	0	0	46	187	268
Louisiana	9	1	1	2	38	51
Michigan	19	4	0	97	275	395
Montana	34	0	0	5	51	90
Nevada	10	1	0	11	20	42
New York	58	28	11	47	456	600
Ohio	41	5	1	125	720	892
South Dakota	17	0	0	3	85	105
Texas	36	2	0	143	703	884
Virginia	22	2	0	64	163	251
Washington	16	3	0	57	147	223
<b>All Participating States</b>	<b>368</b>	<b>52</b>	<b>15</b>	<b>793</b>	<b>3,549</b>	<b>4,777</b>
<b>Percent of Facilities</b>	<b>7.7%</b>	<b>1.1%</b>	<b>0.3%</b>	<b>16.6%</b>	<b>74.3%</b>	<b>100.0%</b>

It can be seen from this table that the Hi-Vent and Hi-HIV strata were quite rare (comprising only 1.1% and 0.3% of eligible facilities, respectively) and that most of these facilities were in New York. Hospital-based facilities were somewhat more common, but were fairly rare in some states (especially Florida and the District of Columbia). Hi-PartA facilities were non-existent or quite uncommon in several states:

District of Columbia, Louisiana, Montana, and South Dakota. Thus, the special population facilities were spread rather unevenly across the participating states.

### **Step 6: Set Sampling Targets**

A series of simulations and projections were performed in the planning phase of the study to estimate the number of facilities and residents that would be needed to achieve a reasonable level of sampling precision and statistical power to meet the study's requirements. Initial projections were based upon the expectation that 240 facilities would be in the sample and that data would be obtained for an average of 50 residents per facility, yielding a total of about 12,000 cases.

Ideally, states would have been recruited before the study began, allowing the project to examine the availability of special population facilities in each state and to set sampling targets for all states. In actuality, it was not possible to take this approach; it was necessary to set the sampling targets on a much more dynamic basis as the study proceeded.

There were a number of reasons for this. First, it was not possible to recruit as many facilities as initially planned. This occurred because fewer states than anticipated were able to participate in the study and because of limitations in some participating states as to how many facilities they could afford to visit. Additionally, state recruitment was not complete when the study began and, in fact, was still underway well into the study. Because special population facilities are spread unevenly across states, it was not possible to set targets with certainty until well into the study since the mix of available facilities was in flux. Furthermore, there was uncertainty for some states about how many facilities they would be willing and able to visit for data collection. Until this uncertainty was resolved, it was not possible to set targets for those states. Finally, stakeholder deletions and the refusal of some facilities to participate (described in more detail below) made it impossible to meet sampling targets for some of the rarer strata in some states.

As a result of these factors, it was necessary to adjust sampling targets as the study progressed. This meant that the targets for states that were processed later in the study sometimes had to be adjusted to compensate for shortfalls encountered earlier in the study. However, once sampling targets were set for a state, every effort was made to meet those targets. Separate targets were set for every stratum within each state.

The final sample size that was achieved by the current study consisted of 205 facilities and over 9,000 residents. While the sample was smaller than the target of 240 facilities and 12,000 residents that was initially planned, it was considerably larger than the sample for the 1995/97 time study, which consisted of 142 facilities and 3,933 residents. Simulations of expected precision were performed at several points during the course of the current study to insure that the sample size of 205 facilities would yield data with sufficient precision and statistical power to support the analyses that were required. A later paper will present results regarding the actual precision of the final sample.

### **Step 7: Select Sample Facilities**

Once the sampling targets were set for a state, the SAS SURVEYSELECT procedure was used to select facilities. Facilities were selected with probability proportional to size, where "size" was represented by the number of residents in the facility on the sampling frame index date described above. Samples were drawn separately for each stratum from a list of all eligible facilities in the state's stratum (subject to geographic restrictions, if appropriate). Thus, the population sizes for each state and stratum corresponded to the counts presented in Table 6 above.

It was anticipated that some facilities on the sample lists would be eliminated by stakeholders and that other facilities would not agree to participate in the study. Therefore, the number of facilities that were selected for the samples within each state and stratum were greater than the target number of facilities. In other words, each stratum was over-sampled with the aim of having enough facilities available on the sample lists to meet the target desired. Lists of sampled facilities were generated for each stratum within each state.

### **Step 8: Randomize Facility Lists**

For each stratum within each state, the list of sampled facilities was put in a random order. This was done to facilitate the process of inviting facilities to participate (see Step 10).

### Step 9: Submit Facility Lists to Stakeholders

The lists of sampled facilities within a state were sent to the state’s Medicaid agency as well as to the appropriate CMS regional office. These stakeholders were asked to eliminate facilities that were closed, were unable to participate in the study (due to emergencies, bankruptcies, ongoing investigations, etc.), or that were known to have very poor quality.

**Table 7. Facilities Eliminated by Stakeholders**

State	Reviewed	Eliminated	Remaining	Percent Eliminated
District of Columbia	18	2	16	11.1%
Florida	32	6	26	18.8%
Iowa	86	17	69	19.8%
Illinois	92	1	91	1.1%
Kentucky	45	8	37	17.8%
Louisiana	70	11	59	15.7%
Michigan	49	12	37	24.5%
Montana	20	2	18	10.0%
Nevada	44	5	39	11.4%
New York	62	9	53	14.5%
Ohio	63	6	57	9.5%
South Dakota	47	10	37	21.3%
Texas	46	6	40	13.0%
Virginia	123	4	119	3.3%
Washington	40	1	39	2.5%
<b>All Participating States</b>	<b>837</b>	<b>100</b>	<b>737</b>	<b>11.9%</b>

Table 7 shows the number of facilities on the state sampling lists that were reviewed, eliminated, and retained by the stakeholders. It can be seen that across all states, the stakeholders eliminated 11.9% of the sampled facilities. The percent eliminated varied widely from a low of 1.1% (Illinois) to a high of 24.5% (Michigan). It is not clear what accounted for this wide variation since stakeholders in all states were given identical instructions for reviewing the lists.

### Step 10: Enlist Participating Facilities

After stakeholders reviewed the sampling lists and indicated which facilities to eliminate, project staff began contacting the remaining facilities on the list and inviting them to participate in the study. As described above, there was a separate list of sampled facilities, listed in random order, for every stratum within each state, and a target number of sample facilities was assigned to each list. For each list, project staff began with the first available facility on the list and continued through the list in the order generated (skipping over those that had been eliminated) until enough facilities agreed to participate to meet the target for that list. Once the target was satisfied, no additional facilities were invited from the list.

**Table 8. Number of Facilities That Declined and Accepted Invitations**

State	Invited	Declined	Accepted	Acceptance Rate
District of Columbia	16	7	9	56.3%
Florida	17	13	4	23.5%
Iowa	49	26	23	46.9%
Illinois	66	50	16	24.2%
Kentucky	27	15	12	44.4%
Louisiana	39	25	14	35.9%

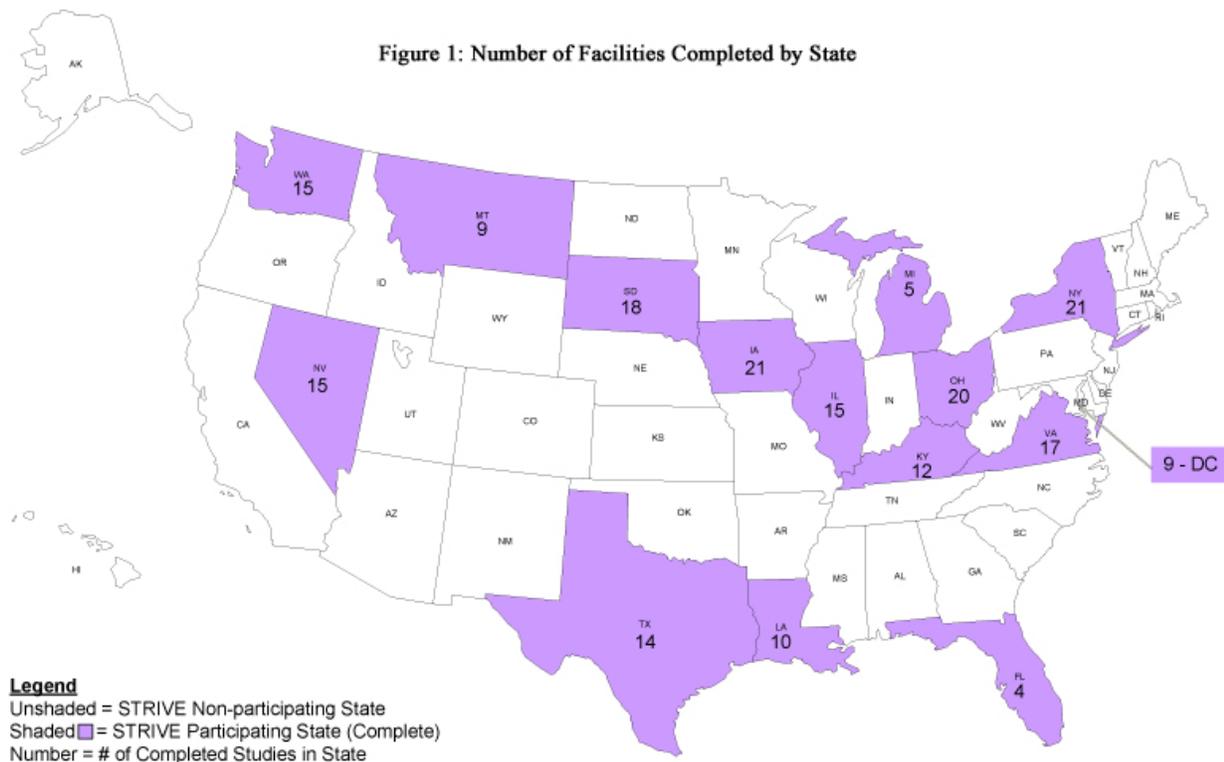
<b>State</b>	<b>Invited</b>	<b>Declined</b>	<b>Accepted</b>	<b>Acceptance Rate</b>
Michigan	17	12	5	29.4%
Montana	17	8	9	52.9%
Nevada	32	17	15	46.9%
New York	42	21	21	50.0%
Ohio	47	27	20	42.6%
South Dakota	23	3	20	87.0%
Texas	29	15	14	48.3%
Virginia	78	61	17	21.8%
Washington	24	9	15	62.5%
<b>All Participating States</b>	<b>523</b>	<b>309</b>	<b>214</b>	<b>40.9%</b>

Table 8 shows the number of facilities by state that were invited to participate in the study and that accepted and declined those invitations. It can be seen that 523 facilities were invited and that 214 (40.9%) accepted. The acceptance rates ranged from a low of 21.8% in Virginia to a high of 87.0% in South Dakota. There was a large amount of variability in the acceptance rates among the states. Some of the differences may be due to encouragement and support provided by nursing home associations in some states, however other factors may have affected these rates as well.

Note that after stakeholder review there were 737 facilities on the sampling lists (see Table 7) but that only 523 facilities were invited to participate. This occurred because project staff invited only enough facilities on each sample list to meet the sampling target. The remaining 214 facilities were on the sampling lists but were not contacted.

It should also be noted in Table 8 that while 214 facilities accepted invitations to participate, data were collected at only 205 facilities. There were 9 facilities that accepted but were not included in the study due to a lack of project resources. Figure 1 below is a map that shows the states that participated in the study and the number of facilities within each state where data were collected.

**Figure 1. Number of Facilities Completed by State**



### Step 11: Select Nursing Units Within Facilities

In most facilities, data monitors and facility staff were able to collect data for residents living on one or two nursing units (about 40 to 50 residents) and for the staff who served those residents. If the facility was no larger than this maximum, then all residents were included in the data collection. However, for larger facilities it was often necessary to select a subset of nursing units for inclusion in the study. For these facilities, data were collected only for the residents on the selected units and for the staff who served those residents.

For the reasons discussed earlier in this paper, it was not possible to randomly select nursing units for inclusion in the study. Instead, a procedure was developed to guide study staff in the selection of the units. The procedure began with project staff contacting the facility, enumerating the nursing units in the facility, and gathering information about each unit (e.g., their geographic configuration, the number of residents living on the units, and whether any special population residents lived on those units). For the purposes of the study, a “nursing unit” was defined as a cluster of resident care beds served by a single nursing station. Some facilities had non-traditional arrangements or layouts that did not conform with this definition. Such facilities were handled on a case-by-case basis in consultation with analytic staff. However, the more traditional definition applied to most of the facilities in the sample.

The algorithm that was used to select nursing units was as follows:

- If the facility had only one nursing unit, then select the entire facility. Otherwise, proceed to the remaining steps.
- If the facility was a Hi-Vent or Hi-HIV facility, then select the nursing unit with the largest number of residents with the condition of interest.
- If the facility was a Hi-PartA facility, then select the nursing unit with the largest number of Medicare Part A residents.

- If the facility was a HB or “Other” facility, then select the nursing unit with the largest number of residents.
- If resources allowed the inclusion of additional nursing units, then select additional nursing unit(s) that are physically close, giving preference to units with the most Medicare Part A residents.

After applying this algorithm, project staff provided the state data monitors with a list of nursing units to include in the study prior to the beginning of the onsite visit. Data monitors were required to adhere to this list; they did not have discretion as to which nursing units were included or excluded from the study.

During the onsite visit, facility staff were trained by the data monitors and data collection occurred. Time data were collected for all staff who delivered care on the unit or units that were selected. In addition, MDS data and additional assessment data were collected for all residents who lived on those units. In some facilities, nursing stations were situated in such a way that the staff who served the study units also served residents who lived on other wings or units of the nursing home. Because the staff who were included in the study recorded time with all patients they served during the study period, even if those residents lived outside of the study units, complete staff time were collected for some units that had not been selected for inclusion in the study. These nursing units were termed "supplemental units". While complete staff time data were collected for these supplemental units, assessment data were not collected because of limitations in the number of assessments that facilities could complete in the time available.

## A-2: STRIVE Time Data Preparation for Analysis

The resident specific STRIVE data information is obtained in two areas. The time spent by staff on behalf of a resident is collected on the Personal Data Assistant (PDA) or on the paper tool and the characteristics of the resident are collected on paper STRIVE MDS and the STRIVE assessment.

This document, the STRIVE Time Data Preparation for Analysis, contains an overview of the Staff Time Data logic applied to the data to transform the raw data collected on the PDAs and paper tools into “cleaned” data, ready for the STRIVE analytic team.

### Structure of Data Collection

#### 1) Resident Specific Categories of Staff Time

- a) Resident Specific Task - a task done with or on behalf of a specific resident or group of residents.
- b) Nursing and non-therapy ancillary time collected over 48 hours
  - i) on PDAs when possible
  - ii) on paper tools only if:
    - (1) staff not able to use PDA
    - (2) insufficient number of PDAs for all ancillary staff
- c) Therapy time collected over 7 days
  - i) 3 days of monitored data collection, usually using PDAs
  - ii) 4 days of non-monitored data collection, using paper tools

#### 2) Non-Resident Specific Categories of Staff Time

- a) Non-resident Specific Task - a task for which a resident or group of residents cannot be identified. A task necessary for resident care on the study unit, but cannot be identified for a specific resident.
- b) Non-Study Task - a task that benefits the facility as a whole but is not related to the direct care of the study residents
- c) Paid meals and breaks - Meals and Breaks (Paid) are for a meal or break time for which the staff member is paid.
- d) Unpaid meals and breaks (Unpaid MB) - Unpaid meal or time for a meal or other time off for which the staff member is not paid.

#### 3) Study Schedules

- a) Each study uses one of three schedules
  - i) planned start and end date and time of training for each staff type
  - ii) planned start and end date and time of live data collection for each staff type
  - iii) the study schedule will determine the “Start Time” of each of the calendar days used in reporting the therapy processed data to the analytic team
  - iv) the nursing time will be reported for the total study time, not by “day”
- b) Each study starts with a “training time” (usually one day)
  - i) PDAs can be toggled into a “training mode” so that all records generated will be tagged as training. They are toggled to “collection mode” for the actual Staff Time Measurement (STM) live data collection.

#### 4) Nursing Live Data Collection Start and End Considerations

- a) At the beginning of the very first data collection shift, a staff member from the prior shift who is not recording live STM time stays late to complete a resident specific task. This extra task time is not recorded.
- b) At the end of the last shift of live data collection, a staff member who is recording live STM time stays late to complete a resident specific task. This extra task time is recorded.
  - i) assumption: the times from (a) and (b) are small, approximately the same, and will cancel each other out.

#### 5) Data Monitor (DM) duties

- a) Review all records when uploading from the PDAs to the laptop at the end of each shift
  - i) verify any records of 120 minutes or more.
  - ii) Change records coded to New Resident to the actual resident when the name of the new resident is known
  - iii) correct gaps in the data with information obtained by the following:
    - (1) review notes entered on PDA and on pieces of paper by the staff member
    - (2) conduct a verbal discussion with the staff member at end of shift

- iv) document any issues with the data in Data Monitor Notes on the Data Monitor Communication Log
    - (1) PDA notes can indicate problems in data collection or explain gaps
    - (2) Data Monitor notes indicate problems/resolutions during end of shift review with staff member
      - (a) add notes to gap records or correct the records
      - (b) "verify" high time records
  - v) read for relevant information prior to processing each facility's data
- 6) **Data flow**
- a) PDA data obtained at the facility are downloaded from the laptop to a CD and sent to IFMC. Paper tools used at the facility are also sent to IFMC for data entry.
  - b) IFMC loads the facility CD database and then data enters the paper tools into the CareTrack system. IFMC then writes the new database containing the original data from the facility and the data-entered paper tools as a new file on the CD received from the facility. This CD now contains 2 data files, the original one from the facility and the new one with both original facility data and entered paper tools.
  - c) The new database with the facility PDA and IFMC entered facility paper tools is sent to CareTrack.
  - d) The original CDs are stored by IFMC. All original datasets are always available.
  - e) CareTrack loads this facility data into a directory and into a consolidated database. The Centers for Medicare and Medicaid Services (CMS) has a copy of the consolidated database stored in the Oracle database on the STRIVE server.
  - f) CareTrack accumulates and creates a new database containing the "cleaned" data.
    - i) **"Cleaned" data** is stored in this database separate from the Original data
    - ii) a copy of the "cleaned" consolidated database will be stored in the CMS Oracle database on the STRIVE server.
  - g) CareTrack provides selected summarization to the University of Michigan with copies to the Iowa Foundation for Medical Care (IFMC). Documentation of the database layouts is provided in separate materials (see "STRIVE Staff & STM Var Names V5.xls" for detail of time fields provided in dataset for analysis use.
- 7) **Basic Processing Steps** (see "STRIVE Time Data Processing Steps" for additional details)
- a) Group time allocated to individual residents
  - b) For each STM study, time is accumulated by individual, then accumulated by all individuals with the same role
    - i) nursing time is accumulated for the 48 hour duration of the study
    - ii) therapy time is accumulated by calendar day for the 7 days of therapy time collection during the study
    - iii) separately accumulate resident-specific time, paid meals and breaks, non-study task times, unpaid meals and breaks
  - c) Data on resident specific time (including therapy times) accumulated to a dataset with information about each resident
  - d) Data on other times accumulated to a dataset with information about each nursing unit studied

## Issues in Processing Individual Time Records

### 1) Multiple versions of a time record

- a) Multiple versions of the time data may exist in a study when a Data Monitor corrects an uploaded record after reading notes or discussing it with the staff member
- b) The cleaned data will have only the version with the most recent update timestamp
  - i) CareTrack accumulates all records in a single dataset
  - ii) only the record with the latest modification date is retained
    - (1) any record that was modified by the Data Monitors retains the changes made by the Data Monitors
  - iii) decisions are detailed in the CareTrack *Processing Log* for each facility.
    - (1) MS Word document for each facility
    - (2) IFMC and CMS will receive a copy

### 2) Facility Resident Roster

- a) Each facility sends a resident roster to IFMC approximately 1 week in advance of the study
- b) IFMC enters the resident roster provided by the facility into the database for the facility
- c) During the time between the creation of the roster sent to IFMC and the beginning of the time study, some residents on the provided roster will be discharged and other residents will be admitted so the

roster on the database will not match the actual residents in the facility at the beginning of the time study

d) Data Monitors must update the roster during the study

### 3) Duplicate Residents

a) Can occur from Data Monitor actions, for example:

- i) misspelling of resident name when the Data Monitor does not find the name as the DM believes it is spelled and so adds the resident into the database
- ii) discharge and re-admit of residents such as when a resident is discharged, then readmitted within the study time. The Data Monitor adds the admitted resident as a new resident with a new STRIVE ID rather than locating their name in the database
- iii) name is hidden by filter on PDA by a staff member who selects a unit of residents they want to view in the PDAs. Any residents on units not selected in the PDA do not appear in the drop down box where the staff member selects a resident.
- iv) multiple laptops used (only occurred in a few of the first couple of studies) so the same resident name is added to multiple laptops resulting in assigned multiple STRIVE IDs.

b) CareTrack manually identifies duplicate residents

- i) sort on last name and first name fields in the roster and review all paperwork from the facility
- ii) if both the first and last name are the same or very close (slight misspelling), the date of birth fields and the room number fields are examined.
- iii) if the birth date and room number are the same, the residents are combined into a single resident id for the time records and a note made in the processing log of the combination
- iv) if the birthdates and the room numbers for both records are not all present, but the ones that are present do match, the residents are combined into a single resident id for the time records and a note made in the processing log of the combination
- v) if the birthdates matches and the room numbers did not match, the residents are combined into a single resident id for the time records and a note made in the processing log of the combination
- vi) if birthdates didn't match, then CareTrack had IFMC call the facility and ask if they were the same resident
- vii) if they were different residents, CareTrack altered the name to be unique by adding a number to the first name and a note made in the processing log
- viii) duplicates due to severe misspelling may not be detected until during MDS data entry, RPT processing or University of Michigan cleaning
  - (1) misspelling of name for example John Smith and John Zmith
  - (2) reversal of last name and first name for example John Smith and Smith John

c) Time records for identified duplicate residents are combined under a single resident ID

- i) all time is assigned to the single resident ID, and documented in the Facility Processing Log
  - (1) all records are recoded to the chosen resident ID.
  - (2) There records are found by a person visually searching the time database
  - (3) database queries are used to review and extract all records for individual
  - (4) the time for a single resident is calculated by a person
  - (5) Note: If all duplicates by name are not reconciled prior to the automated processing of the data by the programs, an edit in the program will stop processing until the issue is resolved.

### 4) Residents with No Nursing Time Records

- a) Residents admitted after the nursing data collection was completed could have therapy time.
- b) Residents receiving outpatient therapy should have been coded as Non-Study rather than by name
- c) Residents with no staff time records -- nursing, therapy, and ancillary -- are dropped. An example is when the resident's name was provided by the nursing facility and entered into the database. Then the resident either left the facility or moved to a unit not being studied before the STM data collection began
- d) Residents with no nursing time records, but with therapy or ancillary staff time are retained. Example: The resident's name was provided by the facility and entered into the database, but the resident was only in the facility during therapy data collection days and not during nursing data collection days. They can easily be flagged and whether these data are used in the analysis is a decision of the analytic team

**5) Residents Admitted During the Study**

- a) Most new (admitted) residents are identified by Data Monitors and added to the PDA Resident Roster before the start of the STM shift– no special processing is needed for these
- b) System allows collection of data on newly admitted residents prior to their name being added to the Resident Roster
  - i) staff selects zNewResident
    - (1) for each facility two zNewResidents, zNewResidentA and zNewResidentB, were entered into the initial database.
    - (2) each staff member determined which resident not on the PDA resident roster was assigned to which zNewResidentA or zNewResidentB selection
    - (3) the DM received information from the staff member on which resident the staff member assigned to each zNewResident name
      - (a) the staff/DM made a note of the name of the new resident
      - (b) the DM converted the records for that resident from the zNewResident name to the name of the actual resident.
    - (4) DM received no information from the staff member
      - (a) resident identified by deduction
        - (i) the resident can be deduced through inspection of the data
          - 1. when only one new resident was admitted on a specific day
          - 2. when time can be assigned confidently to a particular resident, this is a CareTrack judgment call.
          - 3. when resident is identified, the records are converted to the name of the resident
        - (ii) resident cannot be identified by deduction
          - 1. multiple residents admitted on the same day
          - 2. no information about any assignment to a zNewResident name provided
          - 3. the time is retained as New Resident time in the cleaned dataset.

**6) Residents Discharged During the Study**

- a) Identified from notes made by staff or Data Monitors on the Resident Laptop Update Tracking Log or entered into the Residents Database on the Laptop. May also have been identified by the Resident Admit/Discharge Tracking form if one was provided by the facility.

**7) Residents discharged and re-admitted during the study week**

- a) Identified from notes made by staff or Data Monitors on the Resident Laptop Update Tracking Log or entered into the Residents Database on the Laptop. May also have been identified by the Resident Admit/Discharge Tracking form if one was provided by the facility.
- b) Data for the resident accumulated under a single ID

**8) Non-study Residents**

- a) A resident not on the study unit yet receiving care from study unit staff
- b) On the PDAs, one “zNon-study Resident” was included as a resident name in the initial database, so staff time spent with those not in the study could be identified
  - i) time from multiple Non-study Residents was collected under the single “zNon-study Resident” on the PDA
  - ii) PDA able to account for all time of staff member’s shift
  - iii) easier for staff to determine when caring for a specific resident
  - iv) permits more appropriate allocation of non-resident specific time
  - v) staff were permitted to select “zNon-Study Resident” for multiple Non-study Residents on their PDAs
  - vi) the ResidentID for a non-study resident is assigned by the CareTrack software. The software assigns a resident ID whenever a name is entered into the resident roster. These Resident IDs are assigned in numeric order within each facility database whenever a resident is added to the facility roster. This causes zNon-Study Resident IDs to be different IDs for different facilities
  - vii) occasionally Data Monitors in a facility would add additional zNon-study Residents. This was not consistent among facilities.
- c) All time for the “zNon-study Resident” was recoded to ResidentID = R0 for that unit
  - (1)
  - (2) potential problem with allocating group time
    - (a) allocation is done equally across all residents in the group

- (b) as only one “zNon-Study Resident” can be identified, the allocation will be incorrect if there are more than one non-study resident in the group
- (c) in Texas the Data Monitors added residents named non-study resident 1, non-study resident 2, etc. CareTrack will break the Texas non-study residents apart if possible, to estimate the magnitude of this problem.
  - ii) accumulated for the data collection period for each staff role
  - iii) accumulated to a total for the study period

**9) Training vs. Live records**

- a) Records on Training Days (based on Study Date and Schedule) are all converted to Training Records.
- b) Convert all TrainsAlot records to Training.
- c) Training was often done at the beginning of a staff member’s data collection shift. They practiced with several short “test” transactions to get a feel for how the system works.
- d) Training records are identified by the training “toggle” on the PDA
- e) The study schedule was verified by inspection of data to insure it accurately reflected the data.
- f) Records tagged as “training” or “study” reviewed for appropriateness based on the study schedule times, and changed accordingly
  - i) re-flagged as training or study
  - ii) original training flag retained
- g) Notes from the field were reviewed for possible changes to the schedules. If non-standard schedules were documented, the time record data was adjusted by hand to correspond to the schedule used.
- h) Training toggle may not have been selected during training resulting in low time records at the beginning of the first shift that the staff member used a PDA
  - i) criteria for low time: 1 – 5 minutes at the beginning of a shift on a live data collection day, when the records for the rest of the shift are non-training.
  - ii) by inspection, each staff member’s records were reviewed to determine if low time records existed at the beginning of the shift
  - iii) if these low time records were found:
    - (1) the low time records consistent at the beginning of the shift were re-flagged training
      - (a) judgment decision based on review of the pattern of staff time for the staff member.
      - (b) affects only a small amount of time
    - (2) the low time records were not included in calculations
  - iv) note: the original training flag is always retained in the original data.

**10) Overlapping staff roles**

- a) Staff in different facilities, performing similar jobs, may use different role names
- b) In general, staff roles names were maintained with local terminology for ease of use by study sites
  - i) in two cases, recoding was performed, to consolidated to synthetic role:
    - (1) LPN and LVN were recoded to LPN
    - (2) CNA, RCT, and GNA were recorded to CNA
    - (3) O10 were recorded to Therapy Aide per discussion with the one facility that used this terminology.
    - (4) all other staff roles were retained for the analysis team

**11) Group time records**

- a) Group is when a staff member is working/caring concurrently with more than 1 resident at the same time
  - i) Note: the residents do not have to have the same start and end time with the staff member. A resident is part of this “group” if the staff person is concurrently serving at least one other resident at the time this resident is being served.
  - ii) actual elapsed staff time is distributed proportionally among the residents being cared for during this staff time
    - (1) resident x’s apportioned time,  $A = ((\text{resident x’s elapsed time, } E) / (\text{resident x’s elapsed time} + \text{resident y’s elapsed time} + \text{resident n’s elapsed time} \dots \text{for all residents served by the staff member, } T)) * (\text{elapsed time of the staff member serving the residents in the group, } S)$  or  $A=(E/T)*S$
    - (2) round up to the next minute for any part of a minute
  - iii) a non-study resident in group time is counted as one resident although occasionally more than 1 non-study resident might have actually been in attendance. The data monitors were trained to

make a note when this occurred. When a note was present, the actual number of non-study residents were counted.

- iv) see "Therap\_time\_Data\_Structures\_v3\_final.doc" for group therapy examples.
- b) For nursing and ancillary staff:
  - (1) the apportioned staff time is reported
- c) For therapy staff:
  - i) dataset to Brant by staff type by calendar day – See "STRIVE Staff & STM Var Names V5.xls" for detail of time fields provided in dataset for analysis use.
  - ii) therapy time decision tree - The following logic was used to create the Therapy Time tables.
    - (1) preparation of the dataset:
      - (a) records that were part of groups were flagged with a Boolean "Group"= True if the record was part of a group of 2 or more Time Records, based on the Start and End time for the transactions.
      - (b) records collected on PDA were flagged with a Boolean "PDA"=True if the record was collected on a PDA. "PDA"=False indicates the record was entered on the desktop.
      - (c) the DayOfStudy was calculated for each Time Record based on each facility's StudyStartDate and StudySchedule. The DayOfStudy varies between 1 and 7.
      - (d) the StaffRole is contained in each Time Record.
    - (2) variables used in the logic:
      - (a) StaffTime is the allocated time staff spent with the resident. If the record is part of a group, the proportion of the staff time is allocated among the members of the group.
      - (b) ResidentTime is the total time the resident was receiving care from the staff member. For individual events it is the same as StaffTime. For group events the resident time is greater than the staff time.
    - (3) logic used in the allocation program:

```
IF Group=False THEN
  Write record to SST_[StaffRole]_I [DayOfStudy] = StaffTime
ELSE (group is true)
  IF PDA=True
    IF TaskCode = 97150 or 92508 (group time)
      Write record to SST_[StaffRole]_GT_R[DayOfStudy] = ResidentTime
      Write record to SST_[StaffRole]_GT_S[DayOfStudy] = StaffTime
    ELSE (TaskCode = any other HCPCS except above so concurrent time)
      Write record to SST_[StaffRole]_CT_R[DayOfStudy] = ResidentTime
      Write record to SST_[StaffRole]_CT_S[DayOfStudy] = StaffTime
    ENDIF
  ELSE (PDA is false)
    WriteRecord to SST_[StaffRole]_GC_R[DayOfStudy] = ResidentTime
    WriteRecord to SST_[StaffRole]_GC_S[DayOfStudy] = StaffTime
  ENDIF
ENDIF
```
  - iii) considerations:
    - (1) need to separate:
      - (a) "Group Time" – time spent in group where everyone is performing the same activity
      - (b) "Concurrent Time" (or "Dovetailed Time") – therapist works with multiple residents at the same time, but each resident is doing a different activity
      - (c) analysis may need to limit "group time," e.g., to 25% of total group+concurrent time, as is done on the MDS
      - (d) also need to keep information on total time spent by resident in therapy (e.g., a resident got 1 hour of rehabilitation, even through the staff member provided concurrent time to 4 people, and thus only 15 minutes to each)
    - (2) can differentiate through use of Current Procedural Terminology (CPT) codes, recorded with each therapy (when using the PDAs – not available when paper tools are used)
      - (a) need for was decided at kick-off meeting. Software was updated after Spa Creek pilot.
      - (b) was collected beginning with the second Pilot in Madrid
      - (c) CPT codes only available when PDA is used, so data is reported separately for PDA and paper tool periods of collection

## 12) Gaps in Time Data

- a) Each gap in the time data was evaluated by the database manager, using any information in notes completed by staff member or Data Monitor
- b) When there was a note on gap
  - i) the data were corrected per the note
  - ii) examples:
    - (1) note says the staff member was caring for Resident X -- gap time is converted to a resident specific record for that resident
    - (2) note says staff was at unpaid lunch -- gap time changed to unpaid meals and breaks
- c) When there is no note on gap:
  - i) gap occurred at the end of a shift
    - (1) assumed the staff member forgot to log out.
    - (2) gap record is deleted
  - ii) gap time under 30 minutes occurring during the shift
    - (1) assumed the staff member on duty and performing some task. Time is recoded to NRST and included in the NRST dataset per CMS decision.
  - iii) gap time over 30 minutes occurring during the shift were dropped per CMS decision to keep only gap time less than or equal to 30 minutes (low volume)
- d) Detailed Information on gap times is available in "Gap and Group Analysis\_9\_20.xls"

## 13) Very High Time records

- a) Review of time records of 240 minutes or more (one half of a shift), occurring at the end of shift, and without associated notes
  - i) note: Data Monitors were instructed to verify ALL records  $\geq 120$  minutes
  - ii) for NRST or Gap records
    - (1) assumption of user error in logging out
    - (2) flagged and not included in the analytic data set per CMS CMM decision
    - (3) all these records found in the 50% were NRST
  - iii) RST records
    - (1) individually researched
    - (2) determination documented in the Facility Processing Log

## 14) Other Staff Time (including Non-Resident Specific Time (NRST), meals and breaks, etc.)

- a) See "STRIVE Staff & STM Var Names V5.xls" for detail of time fields provided in dataset for analysis use
- b) Accumulated by type of staff time, for each staff role, by unit
- c) Unit definition identification
  - i) facilities units are not named consistently
  - ii) notes from the field were used to determine the actual nursing units (in conjunction with IFMC) for a particular facility
  - iii) units were verified by inspection
  - iv) residents were manually assigned to the nursing units
- d) Distribution/use of non-resident specific time, NRST, will be done in the analysis phase by University of Michigan.

## 15) Number of Days determination

- a) The number of days fields are flags to denote whether the resident was in the facility during the full time of the time study data collection.
- b) Number of nursing days
  - i) nursing days = 2, denotes that the resident was in the nursing home for the whole 48 hour nursing data collection
  - ii) nursing days = 1, denotes that the resident was admitted or discharged or both on one or both of nursing data collection periods
  - iii) inclusion/use of residents with less than a full 48 hours of nursing/ancillary study time will be determined in the analysis phase by University of Michigan and CMS.
- c) Number of therapy days
  - i) rehabilitation therapy almost always occurs during the day shift so the day of therapy is the same as the calendar day of the study.

- ii) therapy days = 7, denotes that the resident was in the nursing home for the whole week long therapy data collection
  - iii) therapy days less than the default of 7 indicate the resident was admitted after live therapy data collection started or was discharged prior to the end of therapy data collection.
  - iv) The number of therapy days flag is set to the number of days they could have received therapy based on their admit and discharge dates.
- d) Review with University of Michigan and CareTrack identified several residents with substantial time that conflicted with the dates of admission or discharge supplied by the Data Monitors. These cases were individually researched and the number of Nursing and/or Therapy days were adjusted based on the pattern of actual time data events recorded for each resident. Changes are noted in the Processing Log.







Figure 5. STRIVE MDS Assessment Form Page 4

Resident		Numeric Identifier	
<b>SECTION D. VISION PATTERNS</b>			
1. VISION	(Ability to see in adequate light and with glasses if used) 0. ADEQUATE—sees fine detail, including regular print in newspapers/books 1. IMPAIRED—sees large print, but not regular print in newspapers/books 2. MODERATELY IMPAIRED—limited vision; not able to see newspaper headlines, but can identify objects 3. HIGHLY IMPAIRED—object identification in question, but eyes appear to follow objects 4. SEVERELY IMPAIRED—no vision or sees only light, colors, or shapes; eyes do not appear to follow objects		
2. VISUAL LIMITATIONS/DIFFICULTIES	Side vision problems—decreased peripheral vision (e.g., leaves food on one side of tray, difficulty traveling, bumps into people and objects, misjudges placement of chair when seating self)  Experiences any of following: sees halos or rings around lights; sees flashes of light; sees "floaters" over eyes  NONE OF ABOVE	a. b. c.	
3. VISUAL APPLIANCES	Glasses, contact lenses; magnifying glass 0. No 1. Yes		
<b>SECTION E. MOOD AND BEHAVIOR PATTERNS</b>			
1. INDICATORS OF DEPRESSION, ANXIETY, SAD MOOD	(Code for indicators observed in last 30 days, irrespective of the assumed cause) 0. Indicator not exhibited in last 30 days 1. Indicator of this type exhibited up to five days a week 2. Indicator of this type exhibited daily or almost daily (6, 7 days a week)  VERBAL EXPRESSIONS OF DISTRESS a. Resident made negative statements—e.g., "Nothing matters; Would rather be dead; What's the use; Regret having lived so long; Let me die" b. Repetitive questions—e.g., "Where do I go; What do I do?" c. Repetitive verbalizations—e.g., calling out for help, ("God help me") d. Persistent anger with self or others—e.g., easily annoyed, anger at placement in nursing home; anger at care received e. Self-deprecation—e.g., "I am nothing; I am of no use to anyone" f. Expressions of what appear to be unrealistic fears—e.g., fear of being abandoned, left alone, being with others g. Recurrent statements that something terrible is about to happen—e.g., believes he or she is about to die, have a heart attack  h. Repetitive health complaints—e.g., persistently seeks medical attention, obsessive concern with body functions i. Repetitive anxious complaints/concerns (non-health related) e.g., persistently seeks attention/resources regarding schedules, meals, laundry, clothing, relationship issues j. Unpleasant mood in morning k. Insomnia/change in usual sleep pattern  SLEEP-CYCLE ISSUES  SAD, APATHETIC, ANXIOUS APPEARANCE l. Sad, pained, worried facial expressions—e.g., furrowed brows m. Crying, tearfulness n. Repetitive physical movements—e.g., pacing, handwringing, restlessness, fidgeting, picking  LOSS OF INTEREST o. Withdrawal from activities of interest—e.g., no interest in long standing activities or being with family/friends p. Reduced social interaction		
2. MOOD PERSISTENCE	One or more indicators of depressed, sad or anxious mood were not easily altered by attempts to "cheer up", console, or reassure the resident over last 7 days 0. No mood 1. Indicators present, easily altered 2. Indicators present, not easily altered		
3. CHANGE IN MOOD	Resident's mood status has changed as compared to status of 90 days ago (or since last assessment if less than 90 days) 0. No change 1. Improved 2. Deteriorated		
4. BEHAVIORAL SYMPTOMS	(A) Behavioral symptom frequency in last 7 days 0. Behavior not exhibited in last 7 days 1. Behavior of this type occurred 1 to 3 days in last 7 days 2. Behavior of this type occurred 4 to 6 days, but less than daily 3. Behavior of this type occurred daily  (B) Behavioral symptom alterability in last 7 days 0. Behavior not present OR behavior was easily altered 1. Behavior was not easily altered  a. WANDERING (moved without rational purpose, seemingly oblivious to needs or safety) b. VERBALLY ABUSIVE BEHAVIORAL SYMPTOMS (others were threatened, screamed at, cursed at) c. PHYSICALLY ABUSIVE BEHAVIORAL SYMPTOMS (others were hit, shoved, scratched, sexually abused) d. SOCIALLY INAPPROPRIATE/DISRUPTIVE BEHAVIORAL SYMPTOMS (made disruptive sounds, noisiness, screaming, self-abusive acts, sexual behavior or disturbing in public, smeared/throw food/soils, hoarding, rummaged through others' belongings) e. RESISTS CARE (refused taking medications/injections, ADL assistance, or eating)	(A) (B)	
5. CHANGE IN BEHAVIORAL SYMPTOMS	Resident's behavior status has changed as compared to status of 90 days ago (or since last assessment if less than 90 days) 0. No change 1. Improved 2. Deteriorated		
<b>SECTION F. PSYCHOSOCIAL WELL-BEING</b>			
1. SENSE OF INITIATIVE/INVOLVEMENT	At ease interacting with others At ease doing planned or structured activities At ease doing self-initiated activities Establishes own goals  Pursues involvement in life of facility (e.g., makes keeps friends; involved in group activities; responds positively to new activities; assists in religious services) Accepts invitations into most group activities  NONE OF ABOVE	a. b. c. d. e. f. g.	
2. UNSETTLED RELATIONSHIPS	Cover/open conflict with or repeated criticism of staff Unhappy with roommate Unhappy with residents other than roommate Openly expresses conflict/anger with family/friends Absence of personal contact with family/friends Recent loss of close family member/friend Does not adjust easily to change in routines  NONE OF ABOVE	a. b. c. d. e. f. g.	
3. FAST RIDER	Strong identification with past roles and life status Expresses sadness/anger/emptiness/feeling over lost role/status Resident perceives that daily routine (customary routine, activities) is very different from prior pattern in the community  NONE OF ABOVE		
<b>SECTION G. PHYSICAL FUNCTIONING AND STRUCTURAL PROBLEMS</b>			
1. (A) ADL SELF-PERFORMANCE—(Code for resident's PERFORMANCE OVER ALL SHIFTS during last 7 days—Not including setup)	0. INDEPENDENT—No help or oversight—OR—Help/oversight provided only 1 or 2 times during last 7 days 1. SUPERVISION—Oversight, encouragement or cueing provided 3 or more times during last 7 days—OR—Supervision (3 or more times) plus physical assistance provided only 1 or 2 times during last 7 days 2. LIMITED ASSISTANCE—Resident highly involved in activity; received physical help in guided maneuvering of limbs or other nonweight-bearing assistance 3 or more times—OR—More help provided only 1 or 2 times during last 7 days 3. EXTENSIVE ASSISTANCE—While resident performed part of activity, over last 7-day period, help of following type(s) provided 3 or more times: —Weight-bearing support —Full staff performance during part (but not all) of last 7 days 4. TOTAL DEPENDENCE—Full staff performance of activity during entire 7 days 5. ACTIVITY DID NOT OCCUR during entire 7 days		
(B) ADL SUPPORT PROVIDED—(Code for MOST SUPPORT PROVIDED OVER ALL SHIFTS during last 7 days; code regardless of resident's self performance classification)	0. No setup or physical help from staff 1. Setup help only 2. One person physical assist 3. Two+ persons physical assist 6. ADL activity itself did not occur during entire 7 days	(A) (B)	
a. BED MOBILITY	How resident moves to and from lying position, turns side to side, and positions body while in bed		
b. TRANSFER	How resident moves between surfaces—i.e. from bed, chair, wheelchair, standing position (EXCLUDE toilet)		
c. WALK IN ROOM	How resident walks between locations in his/her room		
d. WALK IN CORRIDOR	How resident walks in corridor on unit		
e. LOCOMOTION ON UNIT	How resident moves between locations in his/her room and adjacent corridor on same floor. If in wheelchair, self-sufficiency once in chair		
f. LOCOMOTION OFF UNIT	How resident moves to and returns from off-unit locations (e.g., areas set aside for dining activities or treatments). If facility has only one floor, how resident moves to and from distant areas on the floor. If in wheelchair, self-sufficiency once in chair		
g. DRESSING	How resident puts on, fastens, and takes off all items of street clothing, including donning/removing prosthesis		
h. EATING	How resident eats and drinks (regardless of skill). Includes intake of nourishment by other means (e.g., tube feeding, total parenteral nutrition)		
i. TOILET USE	How resident uses the toilet room (or commode, bedpan, urinal); transfer on/off toilet; cleanses, changes pad, manages ostomy or catheter; adjusts clothes		
j. PERSONAL HYGIENE	How resident maintains personal hygiene, including combing hair, brushing teeth, shaving, applying make-up, washing/drying face, hands, and perineum (EXCLUDE baths and showers)		

MDS 2.0 September, 2000

STRIVE MDS Instructions - v. 09/14/06 - (Complete the unshaded items only)

Figure 6. STRIVE MDS Assessment Form Page 5

Resident		Numeric Identifier		
2. BATHING	How resident takes full-body bath/shower, sponge bath, and transfers (in/out of tub/shower) (EXCLUDE washing of face and hair). Code for most dependent in self-care/moist and support. (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KK) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LL) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NN) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XX) (XY) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YX) (YY) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)	3. APPLIANCES AND PROGRAMS	Any scheduled toileting plan a. Badder retaining program b. Enemas/irrigation c. Delirium prevent d. NONE OF ABOVE	
3. TEST FOR BALANCE (see training manual)	(Code for ability during last 7 days) 0. Maintained position as required in test 1. Unsteady, but able to rebalance self without physical support 2. Partial physical support during test, or stands/sits but does not follow directions for test 3. Not able to attempt test without physical help a. Balance while standing b. Balance while sitting—position, trunk control	4. CHANGE IN URINARY CONTINENCE	Resident's urinary continence has changed as compared to status of 90 days ago (or since last assessment if less than 90 days) 0. No change 1. Improved 2. Deteriorated	
4. FUNCTIONAL LIMITATION IN RANGE OF MOTION (see training manual)	(Code for limitations during last 7 days that interfered with daily functions or placed resident at risk of injury) (A) RANGE OF MOTION 0. No limitation 1. Limitation on one side 2. Limitation on both sides a. Neck b. Arm—including shoulder or elbow c. Hand—including wrist or fingers d. Leg—including hip or knee e. Foot—including ankle or toes f. Other limitation or loss (B) VOLUNTARY MOVEMENT 0. No loss 1. Partial loss 2. Full loss (A) (B)	SECTION I. DISEASE DIAGNOSES	Check only those diseases that have a relationship to current ADL status, cognitive status, mood and behavior status, medical treatments, nursing monitoring, or risk of death. (Do not list inactive diagnoses)	
5. MODES OF LOCOMOTION	(Check all that apply during last 7 days) Cane/walker/crutch Wheeled cart Other person/wheeled NONE OF ABOVE Wheel chair primary mode of locomotion d.	1. DISEASES (If none apply, CHECK the NONE OF ABOVE bar)	ENDOCRINE/METABOLIC/NUTRITIONAL Diabetes mellitus Hypertension Hypothyroidism HEART/CIRCULATION Atherosclerotic heart disease (A-SD) Cardiac dysrhythmias Congestive heart failure Deep vein thrombosis Hypertension Hypotension Peripheral vascular disease Other cardiovascular disease MUSCULOSKELETAL Arthritis Hip fracture Missing limb (e.g., amputation) Osteoporosis Pathological bone fracture NEUROLOGICAL Alzheimer's disease Aphasia Cerebral palsy Cerebrovascular accident (stroke) Dementia other than Alzheimer's disease	
6. MODES OF TRANSFER	(Check all that apply during last 7 days) Bed/rail used for bed mobility or transfer Lifted manually a. Lifted mechanically b. Transfer aid (e.g., slide board, hoist, cone, walkin' board) NONE OF ABOVE	Hemiplegia/Hemiparesis Multiple sclerosis Parkinson's disease Parkinson's disease Quadriplegia Seizure disorder Transient ischemic attack (TIA) Traumatic brain injury PSYCHIATRIC/MOOD Anxiety disorder Depression Manic depression (bipolar disease) Schizophrenia PULMONARY Asthma Emphysema/COPD SENSORY Cataracts Diabetic retinopathy Glaucoma Macular degeneration OTHER Allergies Anemia Cancer Renal failure NONE OF ABOVE	Septicemia Sexually transmitted diseases Tuberculosis Urinary tract infection in last 90 days Viral hepatitis Wound infection NONE OF ABOVE	
7. TASK SEGMENTATION	Some or all of ADL activities were broken into subtasks during last 7 days so that resident could perform them 0. No 1. Yes	2. INFECTIONS (If none apply, CHECK the NONE OF ABOVE bar)	Antibiotic resistant infection (e.g., Methicillin resistant staph) Clostridium difficile (c. diff) Conjunctivitis HIV infection Pneumonia Respiratory infection	3. OTHER CURRENT OR MORE DETAILED DIAGNOSES AND ICD-9 CODES
8. ADL FUNCTIONAL REHABILITATION POTENTIAL	Resident believes he/she is capable of increased independence in at least some ADLs a. Died care staff believe resident is capable of increased independence in at least some ADLs b. Resident able to perform tasks/activity but is very slow c. Difference in ADL Self-Performance or ADL Support, comparing mornings to evenings NONE OF ABOVE	3. OTHER CURRENT OR MORE DETAILED DIAGNOSES AND ICD-9 CODES	a. _____ b. _____ c. _____ d. _____ e. _____	
9. CHANGE IN ADL FUNCTION	Resident's ADL self performance status has changed as compared to status of 90 days ago (or since last assessment if less than 90 days) 0. No change 1. Improved 2. Deteriorated	SECTION H. CONTINENCE IN LAST 14 DAYS		
SECTION H. CONTINENCE IN LAST 14 DAYS		1. CONTINENCE SELF-CONTROL CATEGORIES (Code for resident's PERFORMANCE OVER ALL SHIFTS)		
0. CONTINENT—Complete control (includes use of indwelling urinary catheter or ostomy device that does not leak urine or stool)		1. USUALLY CONTINENT—BLADDER, incontinent episodes once a week or less; BOWEL, less than weekly		
2. OCCASIONALLY INCONTINENT—BLADDER, 2 or more times a week but not daily; BOWEL, once a week		3. FREQUENTLY INCONTINENT—BLADDER, tended to be incontinent daily, but some control present (e.g., on day shift); BOWEL, 2-3 times a week		
4. INCONTINENT—Had inadequate control BLADDER, multiple daily episodes; BOWEL, all (or almost all) of the time				
a. BOWEL CONTINENCE	Control of bowel movement, with appliance or bowel continence programs, if employed			
b. BLADDER CONTINENCE	Control of urinary bladder function (if dribbles, volume insufficient to soak through underpants), with appliances (e.g., Foley) or continence programs, if employed			
2. BOWEL ELIMINATION PATTERN	Bowel elimination pattern regular—at least one movement every three days a. Diarrhea b. Rectal impaction c. Constipation d. NONE OF ABOVE e.			
SECTION J. HEALTH CONDITIONS		1. PROBLEM CONDITIONS (Check all problems present in last 7 days unless other time frame is indicated)		
INDICATORS OF FLUID STATUS		Dizziness/Vertigo Edema Fever Haltidations Internal bleeding Inability to lie flat due to shortness of breath Dehydrated output exceeds input Insufficient fluid did NOT consume all/almost all liquids provided during last 3 days OTHER Delusions		
		a. Recurrent lung aspirations in last 90 days b. Shortness of breath c. Syncope (fainting) d. Urinary dydysia e. Vomiting f. NONE OF ABOVE		

Figure 7. STRIVE MDS Assessment Form Page 6

Resident _____		Numeric Identifier _____	
<b>SECTION M. SKIN CONDITION</b>			
2. PAIN SYMPTOMS	(Code the highest level of pain present in the last 7 days) a. FREQUENCY with which resident complains or shows evidence of pain 0. No pain (skip to J4) 1. Pain less than daily 2. Pain daily b. INTENSITY of pain 1. Mild pain 2. Moderate pain 3. Times when pain is horrible or excruciating		
3. PAIN SITE	(If pain present, check all sites that apply in last 7 days) Back pain Bone pain Chest pain while doing usual activities Headache Hip pain Joints Neck pain Soft tissue pain (e.g., tendon, muscle) Stomach pain Other		
4. ACCIDENTS	(Check all that apply) Fall in past 30 days Fall in past 31-180 days	a. Hip fracture in last 180 days b. Other fracture in last 180 days c. NONE OF ABOVE	
5. STABILITY OF CONDITIONS	Conditions/diseases make residents cognitive, ADL, mood or behavior patterns unstable—(fluctuating, precarious, or deteriorating) Resident experiencing an acute episode or a flare-up of a recurrent or chronic problem End-stage disease, 6 or fewer months to live NONE OF ABOVE	a. b. c. d.	
<b>SECTION K. ORAL/NUTRITIONAL STATUS</b>			
1. ORAL PROBLEMS	Chewing problem Swallowing problem Mouth pain NONE OF ABOVE	a. b. c. d.	
2. HEIGHT AND WEIGHT	Record (a.) height in inches and (b.) weight in pounds. Base weight on most recent measure in last 30 days; measure weight consistently in accord with standard facility practice—e.g., in a.m. after voiding, before meal, with shoes off and in light clothes a. HT (in.) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> b. WT (lb.) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		
3. WEIGHT CHANGE	a. Weight loss—5% or more in last 30 days; or 10% or more in last 180 days 0. No 1. Yes b. Weight gain—5% or more in last 30 days; or 10% or more in last 180 days 0. No 1. Yes		
4. NUTRITIONAL PROBLEMS	Complains about the taste of many foods Regurgitates or regurgitates complaints of hunger Loses 25% or more of body weight in last 6 months NONE OF ABOVE		
5. NUTRITIONAL APPROACHES	(Check all that apply in last 7 days) Parenteral/IV Feeding tube Mechanically altered diet Syringe (oral feeding) Therapeutic diet	a. Dietary supplement between meals b. Plate guard, stabilized built-up items, etc. c. On a planned weight change program d. NONE OF ABOVE	
6. PARENTERAL OR ENTERAL INTAKE	Skip to Section L if neither a nor b is checked a. Code the proportion of total calories the resident received through parenteral or tube feedings in the last 7 days 0. None 3. 51% to 75% 1. 1% to 25% 4. 76% to 100% 2. 26% to 50% b. Code the average fluid intake per day by IV or tube in last 7 days 0. None 3. 1001 to 1500 cc/day 1. 1 to 500 cc/day 4. 1501 to 2000 cc/day 2. 501 to 1000 cc/day 5. 2001 or more of day		
<b>SECTION L. ORAL/DENTAL STATUS</b>			
1. ORAL STATUS AND DISEASE PREVENTION	Denture (soft, easily movable substance) present in mouth prior to going to bed at night Has denture or removable bridge Some/all natural teeth lost—does not have or does not use denture (or partial plates) Broken, loose, or carious teeth Inflamed gums (gingivitis); swollen or bleeding gums; oral abscesses; ulcers or sores Daily cleaning of the denture or daily mouth care—by resident or staff NONE OF ABOVE		
<b>SECTION N. ACTIVITY PURSUIT PATTERNS</b>			
1. TIME AWAKE	(Check appropriate time periods over last 7 days) Resident awake at or most of time (i.e., naps no more than one hour per time period) in the: Morning a. <input type="checkbox"/> b. <input type="checkbox"/> Afternoon a. <input type="checkbox"/> b. <input type="checkbox"/> NONE OF ABOVE		
(If resident is comatose, skip to Section O)			
2. AVERAGE TIME INVOLVED IN ACTIVITIES	(When awake and not receiving treatments or ADL care) 0. Most—more than 2/3 of time 2. Little—less than 1/3 of time 1. Some—from 1/3 to 2/3 of time 3. None		
3. PREFERRED ACTIVITY SETTINGS	(Check all settings in which activities are preferred) Calm room Day/activity room Inside NH/Unit Outside facility NONE OF ABOVE		
4. GENERAL ACTIVITY PREFERENCES (adapted to resident's current abilities)	(Check all PREFERENCES whether or not activity is currently available in resident) Trip/shopping Cards/other games Walking/wheeling outdoors Watching TV Gardening or plants Talking or conversing Hiking/other NONE OF ABOVE		



Figure 9. STRIVE MDS Assessment Form Page 8

Resident \_\_\_\_\_ Numeric Identifier \_\_\_\_\_

**SECTION T. THERAPY SUPPLEMENT FOR MEDICARE PPS**

**1. SPECIAL TREATMENTS AND PROCEDURES**

**a. RECREATION THERAPY**—Enter number of days and total minutes of recreation therapy administered (for at least 15 minutes a day) in the last 7 days (Enter 0 if none)

DAYS		MIN	
(A)	(B)	(A)	(B)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

(A) = # of days administered for 15 minutes or more  
 (B) = total # of minutes provided in last 7 days

Skip unless this is a Medicare 5 day or Medicare readmission / return assessment.

**b. ORDERED THERAPIES**—Has physician ordered any of following therapies to begin in FIRST 14 days of stay—physical therapy, occupational therapy, or speech pathology service?  
 0. No      1. Yes

If not ordered, skip to item 2

**c.** Through day 15, provide an estimate of the number of days when at least 1 therapy service can be expected to have been delivered.

**d.** Through day 15, provide an estimate of the number of therapy minutes (across the therapies) that can be expected to be delivered?

**2. WALKING WHEN MOST SELF SUFFICIENT**

Complete item 2 IF ADE self-performance score (WALKER) (G, I, G, A) is 0, 1, 2, or 3 AND at least one of the following items are met:

- Resident received physical therapy involving gait training (P1.b.i)
- Physical therapy was ordered for the resident involving gait training (P1.b)
- Resident received nursing rehabilitation for walking (P2.f)
- Physical therapy involving walking has been discontinued within the past 180 days

Skip to item 3 if resident did not walk in last 7 days

(FOR FOLLOWING FIVE ITEMS, BASE CODING ON THE EPISODE WHEN THE RESIDENT WALKED THE FARTHEST WITHOUT SITTING DOWN (INCLUDE WALKING DURING REHABILITATION SESSIONS))

**a.** Farthest distance walked without sitting down during this episode.

0. 150+ feet	3. 10-25 feet
1. 51-149 feet	4. Less than 10 feet
2. 25-50 feet	

**b.** Time walked without sitting down during this episode.

0. 1-2 minutes	3. 11-15 minutes
1. 3-4 minutes	4. 16-30 minutes
2. 5-10 minutes	5. 31+ minutes

**c.** Self-Performance in walking during this episode

0. **INDEPENDENT**—No help or oversight

1. **SUPERVISION**—Oversight, encouragement or cueing (p/w/c/c)

2. **LIMITED ASSISTANCE**—Resident highly involved in walking; received physical help (guided maneuvering of limbs or other nonweight bearing assistance)

3. **EXTENSIVE ASSISTANCE**—Resident received weight bearing assistance while walking

**d.** Walking support provided associated with this episode (code regardless of resident's self-performance classification)

0. No setup or physical help from staff  
 1. Setup help only  
 2. One person physical assist  
 3. Two+ persons physical assist

**e.** Padded shoes used by resident in association with this episode.

0. No      1. Yes

**3. CASE MIX GROUP** Medication  State

MDS 2.0 September 2000  
 STRIVE MDS Instructions - v. 09/14/06 - (Complete the unshaded items only)



Figure 11. STRIVE MDS Assessment Addendum Form Page 2

Resident Name \_\_\_\_\_ STRIVE Resident ID \_\_\_\_\_

<p>9. <b>STAFF ASSESSMENT OF DEPRESSION</b></p>	<p>Code for occurrence last 14 days:</p> <p>0. Symptom not present                  1. Symptom(s) present one day (once)                  2. Symptom(s) present 2-6 days (several days)                  3. Symptom(s) present 7-11 days (more than half the days)                  4. Symptom(s) present 12-14 days (nearly every day)                  9. No response</p> <p>Over the last 2 weeks has the resident been having any of the following:</p> <p>a. Little interest or pleasure in doing things <input type="checkbox"/></p> <p>b. Feeling down, depressed, or hopeless <input type="checkbox"/></p> <p>c. Trouble falling or staying asleep, or sleeping too much <input type="checkbox"/></p> <p>d. Feeling tired or having little energy <input type="checkbox"/></p> <p>e. Poor appetite or overeating <input type="checkbox"/></p> <p>f. Feeling bad about him/herself - or that he/she is a failure or that he/she has let him/herself or his/her family down <input type="checkbox"/></p> <p>g. Trouble concentrating on things, such as reading the newspaper or watching television <input type="checkbox"/></p> <p>h. Moving or speaking so slowly that other people could have noticed, or being so fidgety or restless that resident has been moving around a lot more than usual <input type="checkbox"/></p> <p>i. Thoughts that he/she would be better off dead, or of hurting him/herself in some way <input type="checkbox"/></p> <p>j. Feeling short tempered or easily annoyed <input type="checkbox"/></p>
<p><b>SECTION XG. PHYSICAL FUNCTIONS AND STRUCTURAL PROBLEMS</b></p>	
<p>1. <b>DISTANCE WALKED</b></p>	<p>Farthest distance walked at one time without sitting down in the last 3 days (with support as needed):</p> <p>0. Did not walk                  1. 1 - 50 feet <input type="checkbox"/>                  2. 51 - 149 feet                  3. 150+ feet</p>
<p>2. <b>DISTANCE WHEELED SELF</b></p>	<p>Farthest distance wheeled self at one time in the last 3 days (includes independent use of motorized wheelchair):</p> <p>0. Did not use wheelchair (e.g., walked, bedbound)                  1. W heeled by others                  2. Used motorized wheelchair                  3. W heeled self 1 - 50 feet                  4. W heeled self 51 - 149 feet                  5. W heeled self 150+ feet <input type="checkbox"/></p>
<p>3. <b>FRACTURES AND SURGICAL REPLACEMENTS</b></p>	<p>a. Code for occurrence in LAST 90 DAYS PRIOR TO THIS ADMISSION:</p> <p>0. No 1. Yes 2. Unknown or admission &gt; 90 days ago</p> <p>Knee replacement <input type="checkbox"/>                  Hip replacement <input type="checkbox"/>                  Hip fracture <input type="checkbox"/></p> <p>b. If YES to ANY of the three above items (knee replacement, hip replacement, hip fracture), then record the number (0 to 4) of the following ADLs (see definitions in MDS Section G1) in which the resident was INDEPENDENT prior to fracture/replacement.</p> <p>Bed Mobility <input type="checkbox"/>                  Transfer <input type="checkbox"/>                  Walk in Room <input type="checkbox"/>                  Walk in Corridor (if at home, how walks between locations on same floor indoors) <input type="checkbox"/></p> <p>If no fracture/replacement, enter "9".</p> <p>Number of prior Independent ADLs <input type="checkbox"/></p>
<p><b>SECTION XI. DISEASE DIAGNOSES</b></p>	
<p>1. <b>DISEASE DIAGNOSES</b></p>	<p>Check if the following diseases have a relationship to current ACL status, cognitive status, mood and behavior status, medical treatments, nursing monitoring, or risk of death. (Do not list inactive diagnoses).</p> <p>Code for the last 3 days:                  0. No 1. Yes</p> <p>a. Post-Traumatic Stress Disorder <input type="checkbox"/>                  b. Sleep Apnea <input type="checkbox"/></p>
<p><b>SECTION XJ. HEALTH CONDITIONS</b></p>	
<p>1. <b>FATIGUE</b> *</p>	<p>Inability to complete normal daily activities - e.g., ADLs.</p> <p>Code for the last 3 days:</p> <p>0. None                  1. Minimal - Diminished energy but completes normal day-to-day activities                  2. Moderate - Due to diminished energy, UNABLE TO FINISH normal day-to-day activities                  3. Severe - Due to diminished energy, UNABLE TO START SOME normal day-to-day activities                  4. Unable to commence any normal day-to-day activities - due to diminished energy <input type="checkbox"/></p>
<p>2. <b>DYSPIRREA (SHORTNESS OF BREATH)</b> *</p>	<p>Code for the last 3 days:</p> <p>0. Absence of symptom                  1. Absent at rest, but present when performing moderate activities                  2. Absent at rest, but present when performing normal day-to-day activities                  3. Present at rest <input type="checkbox"/></p>
<p>3. <b>PAIN MANAGEMENT</b></p>	<p>At any time in the last week (7 days) has the resident been on any of the following therapeutic regimens?                  Code: 0. No 1. Yes</p> <p>a. Been on scheduled pain medication regimen? <input type="checkbox"/>                  b. Received PRN pain medications? <input type="checkbox"/>                  c. Received non-medication interventions for pain? <input type="checkbox"/></p>

V 02/01/07B STRIVE MDS ADDENDUM Page 2 of 4  
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Figure 12. STRIVE MDS Assessment Addendum Form Page 3

Resident Name \_\_\_\_\_ STRIVE Resident ID \_\_\_\_\_

4.	<b>RESIDENT PAIN SELF REPORT</b>	Is the resident able to report his/her own discomfort at all? 0. No 1. Yes 2. Unclear <input type="checkbox"/>
5.	<b>RESIDENT PAIN INTERVIEW</b>	Ask questions directly of resident: a. Are you comfortable today? 0. No 1. Yes 9. Unable to answer <input type="checkbox"/> b. Are you in pain or hurting today? 0. No 1. Yes 9. Unable to answer <input type="checkbox"/> c. How bad has the pain been today? 0. No pain 1. Mild 2. Moderate 3. Severe 4. Very severe, horrible 9. Unable to answer <input type="checkbox"/> d. Did your pain make you unable to sleep last night? 0. No 1. Yes 2. No pain 9. Unable to answer <input type="checkbox"/> e. Have you limited your activities today because of pain? 0. No 1. Yes 2. No pain 9. Unable to answer <input type="checkbox"/> f. Has enough been done to make you more comfortable? 0. No – wants more attention to the problem 1. Yes – does not want any changes 2. Not applicable – already comfortable 9. Unable to answer <input type="checkbox"/> g. Have you been comfortable most of the time during the past week? 0. No 1. Yes 9. Unable to answer <input type="checkbox"/>
6.	<b>FACILITY PAIN INDICATOR</b>	a. Does the resident have any of the following behaviors during the past week? Code: 0. No 1. Yes 1. Crying, whining, gasping, moaning, or groaning, whether at rest or in response to movement <input type="checkbox"/> 2. Facial expressions (grimaces, winces, wrinkled forehead, furrowed brow, clenched teeth or jaw) <input type="checkbox"/> 3. Protective body movements or postures (bracing, guarding, rubbing or massaging a body part/area, clutching or holding a body part during movement) <input type="checkbox"/> 4. Vocal complaints of pain (that hurts, ouch, stop) <input type="checkbox"/> 5. Reduced interest in environment, fearfulness, or newly disruptive behaviors <input type="checkbox"/> b. Have there been trials of treatment to see whether these behaviors might be relieved? Code: 0. No 1. Yes – no effective treatment found 2. Yes – ongoing at the present time 9. No behaviors present <input type="checkbox"/> c. Does the resident have a care plan addressing prevention or relief of pain? Code: 1. Resident has no substantial problem with pain 2. Resident has an effective care plan addressing pain 3. Resident has a problem with pain, but no care plan due to resident/family preference 4. Resident has a problem with pain, but no care plan due to other reason <input type="checkbox"/>
7.	<b>PAIN CONTROL</b> *	[Note: Always ask the resident about pain frequency, intensity, and control. Observe resident and ask others who are in contact with the resident]  Adequacy of current therapeutic regimen to control pain (from resident's point of view).  Code for the last 3 days: <input type="checkbox"/> 0. No issue of pain 1. Pain intensity acceptable to resident, no treatment regimen or change in regimen required 2. Controlled adequately by therapeutic regimen 3. Controlled when therapeutic regimen followed, but not always followed as ordered 4. Therapeutic regimen followed, but pain control not adequate 5. No therapeutic regimen being followed for pain; pain not adequately controlled
<b>SECTION XIX. ORAL/NUTRITIONAL STATUS</b>		
1.	<b>SWALLOWING DISORDER</b>	Signs and symptoms of swallowing disorder. Code for the last 3 days: 0. No 1. Yes a. Coughing or choking during meals or when taking medicine <input type="checkbox"/> b. Change in the sound (quality) of voice during meals <input type="checkbox"/> c. Caregiver observation of difficulty eating (e.g., loss of liquids/solids from mouth or nose during meals, red face, change in types of food patient will take, holding food in the mouth, rapid breathing) <input type="checkbox"/> d. Resident complaints of swallowing difficulty <input type="checkbox"/>

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Figure 13. STRIVE MDS Assessment Addendum Form Page 4

Resident Name \_\_\_\_\_ STRIVE Resident ID \_\_\_\_\_

2	<b>PRIMARY MODE OF NUTRITIONAL INTAKE</b>	Code for primary mode last 3 days: 0. Oral 1. Nasogastric tube feeding 2. Parenteral feeding - includes all types of parenteral feedings, such as total parenteral nutrition (TPN) 3. Abdominal feeding tube - e.g., PEG tube <input type="checkbox"/>
3	<b>PARENTERAL FEEDING</b>	a. Record the number of DAYS parenteral feeding administered IN THE FACILITY during the LAST 7 DAYS (enter "0" if none administered). <input type="checkbox"/> b. Enter date (IN LAST 7 DAYS) last administered parenteral feeding. (Leave blank if not administered in the facility in last 7 days.) <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 40px; height: 20px; display: flex; align-items: center; justify-content: center;"> </div> </div> <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Month</span> <span>Day</span> <span>Year</span> </div>

SECTION XP. SPECIAL TREATMENTS AND PROCEDURES																																									
1	<b>SPECIAL TREATMENTS</b>	Indicate whether and when each of the following procedures were performed:  A) Procedures performed prior to admission to this facility and within the last 7 days. Only code column A if resident has been admitted IN THE LAST 7 DAYS. Leave column A blank for residents admitted more than 7 days ago.  B) Procedures performed after admission to this facility and within the last 7 days. Code for all residents.  Code: 0. No 1. Yes <table style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 5%; text-align: center;">A</th> <th style="width: 5%; text-align: center;">B</th> </tr> </thead> <tbody> <tr><td>a. Modified barium swallow</td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>b. BIPAP/CPAP machine</td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>c. Hyperbaric oxygen</td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>d. Isolation for infection control - e.g., quarantine, reverse isolation</td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>e. IV medication</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>f. Negative pressure wound therapy</td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>g. Oxygen therapy</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>h. PET scan</td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>i. Suctioning</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>j. Tracheostomy care</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>k. Tracheostomy</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>l. Ventilator or respirator</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> </tbody> </table>		A	B	a. Modified barium swallow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	b. BIPAP/CPAP machine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	c. Hyperbaric oxygen	<input checked="" type="checkbox"/>	<input type="checkbox"/>	d. Isolation for infection control - e.g., quarantine, reverse isolation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	e. IV medication	<input type="checkbox"/>	<input type="checkbox"/>	f. Negative pressure wound therapy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	g. Oxygen therapy	<input type="checkbox"/>	<input type="checkbox"/>	h. PET scan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	i. Suctioning	<input type="checkbox"/>	<input type="checkbox"/>	j. Tracheostomy care	<input type="checkbox"/>	<input type="checkbox"/>	k. Tracheostomy	<input type="checkbox"/>	<input type="checkbox"/>	l. Ventilator or respirator	<input type="checkbox"/>	<input type="checkbox"/>
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k. Tracheostomy	<input type="checkbox"/>	<input type="checkbox"/>																																							
l. Ventilator or respirator	<input type="checkbox"/>	<input type="checkbox"/>																																							

SECTION XQ: DISCHARGE POTENTIAL AND INTEREST	
1.	<b>RESIDENT DISCHARGE INTERVIEW</b> (This section should be completed by a social worker)  Ask the resident (or responsible other, if needed).  a. Would you like to learn about possible options for returning to live in the community, and if housing, services, and supports are available? Code: 0. No 1. Yes <input type="checkbox"/>  b. Do you have a place to live in the community? Code 0. No (skip to XQ1c) <input type="checkbox"/> 1. Yes (indicate all that apply, XQ1c)  c. Indicate all that apply Code: 0. No 1. Yes  1. Own Home <input type="checkbox"/> 2. Home of relative or friend <input type="checkbox"/>  d. Where would you prefer to live in the community if housing and supports are available? (indicate all that apply) Code: 0. No 1. Yes  1. Own Home <input type="checkbox"/> 2. Home of relative or friend <input type="checkbox"/> 3. Assisted living <input type="checkbox"/> 4. Board and Care (group home) <input type="checkbox"/> 5. Other <input type="checkbox"/>  e. Can we provide your name to an agency that can assist with giving you information about returning to the community (either the Aging and Disability Resource Centers (ADRC) or the Area Administration on Aging (AAA))? Code: 0. No 1. Yes <input type="checkbox"/>  f. Primary source of information about resident discharge: Code: 1. Resident <input type="checkbox"/> 2. Relative or friend <input type="checkbox"/> 3. Legal guardian <input type="checkbox"/> 4. Other <input type="checkbox"/>
2.	<b>DISCHARGE POTENTIAL</b>  a. Resident has a support person who is positive towards discharge Code: 0. No 1. Yes <input type="checkbox"/>  b. Stay projected to be of a short duration - discharge projected within 90 days (do not include expected discharge due to death) Code: <input type="checkbox"/> 0. No 1. Within 30 days 2. Within 31-90 days 3. Discharge status uncertain

<b>SIGNATURE(S)</b>	
Signature(s) of Person(s) who Completed the Accompanying STRIVE MDS Assessment and this STRIVE Addendum	
Signature and Title	Date
Print Name	

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STRIVE MDS ADDENDUM
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## A-5: RPT Match Summary

**Table 9. Match Rates Between Pre-RPT Values and STRIVE MDS Values**

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
AB10B	Down's syndrome	100.0%	100.0%	100.0%	100.0%	87.5%	100.0%	98.1%	97.6%	98.1%
AB10C	Autism	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.1%
AB10D	Epilepsy	100.0%	100.0%	100.0%	100.0%	85.7%	87.5%	96.2%	95.2%	98.1%
AB10E	Other organic condition related to MR/DD	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	83.0%	89.4%	98.1%
AB10F	MR/DD with no organic condition	100.0%	100.0%	100.0%	100.0%	71.4%	75.0%	69.8%	76.2%	98.1%
AB2	Admitted from (at Entry)	95.9%	94.5%	94.2%	96.5%	94.7%	95.2%	89.2%	92.3%	41.4%
AB5D	MH/psychiatric setting	99.4%	98.8%	99.4%	98.3%	99.1%	99.7%	98.0%	98.6%	25.0%
AB5E	MR/DD setting	99.6%	100.0%	100.0%	100.0%	100.0%	99.3%	99.5%	99.6%	25.0%
AB9	Mental Health History	97.4%	98.2%	96.6%	99.0%	97.1%	96.3%	95.2%	96.4%	39.7%
B1	Comatose	100.0%	100.0%	100.0%	99.8%	99.7%	99.9%	100.0%	99.9%	3.5%
B2A	Short-term memory OK	97.5%	97.1%	95.9%	97.4%	96.8%	96.5%	81.5%	96.8%	5.0%
B2B	Long-term memory OK	97.2%	97.9%	95.1%	96.0%	97.2%	94.9%	88.9%	96.5%	5.0%
B3A	Recall current season	96.4%	95.6%	96.4%	95.7%	95.2%	95.1%	93.9%	95.6%	3.8%
B3B	Recall location of own room	94.9%	95.3%	95.8%	94.5%	95.8%	95.4%	93.9%	95.3%	3.8%
B3C	Recall staff names/faces	95.4%	94.9%	94.7%	96.2%	94.9%	95.6%	94.6%	95.3%	3.8%
B3D	Recall that he/she in nursing home	96.7%	95.1%	95.8%	95.5%	96.1%	95.4%	88.4%	95.6%	3.8%
B3E	Recall: None of Above	96.9%	97.5%	96.1%	97.0%	95.9%	97.0%	95.9%	96.6%	3.8%
B4	Cognitive Skills/Daily Decision Making	92.9%	91.8%	91.8%	92.0%	92.2%	90.8%	74.1%	91.9%	3.9%
B5A	Easily distracted	97.2%	96.3%	95.3%	97.2%	94.9%	94.7%	88.9%	95.8%	4.3%
B5B	Periods of altered perception/awareness	96.8%	97.2%	96.7%	95.9%	96.1%	97.1%	88.9%	96.5%	3.9%
B5C	Episodes of disorganized speech	96.9%	97.0%	96.7%	96.3%	95.9%	95.5%	96.3%	96.3%	3.9%
B5D	Periods of restlessness	97.0%	96.3%	94.8%	93.7%	94.6%	95.4%	74.1%	95.2%	3.9%
B5E	Periods of lethargy	96.9%	95.7%	95.4%	95.6%	95.5%	95.8%	88.9%	95.8%	3.9%
B5F	Mental function varies during day	95.6%	95.7%	94.5%	91.3%	94.9%	94.0%	77.8%	94.4%	3.9%
B6	Change in Cognitive Status	93.9%	92.3%	85.1%	87.8%	89.0%	89.7%	90.4%	90.0%	7.7%
C1	Hearing	95.7%	97.2%	96.4%	97.3%	96.5%	93.4%	90.3%	93.7%	7.3%
C2A	Hearing aid present/used	98.7%	99.3%	97.8%	98.5%	98.6%	98.3%	97.9%	98.3%	5.0%
C2C	Other receptive comm. techniques used	99.7%	100.0%	100.0%	98.5%	99.6%	99.4%	99.2%	99.4%	5.0%
C3A	Speech	97.7%	99.0%	96.5%	97.1%	96.0%	96.1%	94.9%	96.0%	5.0%
C3B	Writing messages	99.7%	99.3%	99.1%	99.1%	99.1%	99.4%	99.1%	99.2%	5.0%
C3C	Amer. sign language/Braille	100.0%	99.7%	99.6%	99.4%	99.7%	100.0%	99.9%	99.8%	5.0%
C3D	Signs/gestures/sounds	94.7%	98.3%	96.9%	96.2%	96.5%	95.4%	93.2%	95.0%	5.0%
C3E	Communication board	100.0%	99.3%	100.0%	100.0%	99.7%	99.6%	99.6%	99.7%	5.0%
C3F	Other	100.0%	100.0%	99.1%	99.7%	99.7%	99.8%	99.2%	99.6%	5.0%
C3G	Modes of expression: None of Above	100.0%	100.0%	99.6%	98.8%	99.1%	98.9%	97.8%	98.7%	5.0%
C4	Making Self Understood	95.4%	93.9%	94.0%	92.4%	93.9%	92.4%	92.6%	93.7%	3.9%
C5	Speech Clarity	98.7%	98.6%	98.2%	97.1%	96.6%	96.5%	91.3%	94.9%	6.9%
C6	Ability to Understand Others	94.5%	92.9%	92.4%	92.2%	91.9%	91.3%	88.9%	92.5%	3.9%
D1	Vision	95.3%	96.0%	93.5%	94.1%	95.7%	94.3%	89.2%	93.0%	5.4%
D2A	Side vision problems	99.0%	99.0%	99.6%	98.8%	99.2%	98.5%	99.2%	99.1%	5.1%
D2B	Sees halos/rings/flashes/curtains	99.5%	99.7%	99.6%	100.0%	99.9%	99.8%	99.6%	99.7%	5.1%
D2C	Visual limitations: None of Above	96.2%	97.9%	97.8%	96.8%	96.1%	96.1%	95.3%	96.1%	5.0%
D3	Visual Appliances	96.9%	97.9%	96.9%	98.5%	96.2%	95.0%	93.3%	95.3%	7.5%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
E1A	Negative statements	97.8%	96.5%	98.4%	97.0%	96.6%	95.9%	88.9%	96.9%	3.9%
E1B	Repetitive questions	97.1%	97.4%	96.7%	97.8%	96.2%	96.0%	88.9%	96.7%	3.9%
E1C	Repetitive verbalizations	97.8%	96.7%	96.7%	95.6%	95.2%	96.1%	96.3%	96.3%	3.9%
E1D	Persistent anger with self/others	96.2%	93.9%	93.4%	92.2%	93.5%	91.3%	81.5%	93.4%	3.9%
E1E	Self deprecation	99.1%	98.6%	99.7%	98.3%	98.6%	98.2%	100.0%	98.7%	3.9%
E1F	Expression of unrealistic fears	98.8%	97.6%	97.0%	98.0%	97.2%	95.8%	92.6%	97.4%	3.9%
E1G	Recurrent statements of terrible future	99.0%	98.8%	98.6%	99.3%	98.4%	98.5%	96.3%	98.7%	4.0%
E1H	Repetitive health complaints	96.3%	93.5%	97.3%	94.1%	95.0%	93.8%	92.6%	94.9%	3.9%
E1I	Repetitive anxious complaints/concerns	96.8%	94.1%	93.4%	93.0%	93.4%	92.6%	81.5%	93.9%	3.9%
E1J	Unpleasant mood in morning	98.9%	96.7%	98.1%	97.4%	97.5%	96.5%	85.2%	97.5%	3.9%
E1K	Insomnia/change in sleeping pattern	96.7%	94.3%	97.0%	95.6%	94.5%	94.8%	81.5%	95.2%	3.9%
E1L	Sad/pained/worried facial expressions	91.9%	92.5%	87.7%	87.8%	88.9%	88.0%	74.1%	89.4%	3.9%
E1M	Crying/tearfulness	97.9%	96.5%	94.3%	95.2%	95.0%	95.7%	96.3%	95.9%	4.0%
E1N	Repetitive physical movements	96.5%	96.3%	93.2%	93.1%	93.3%	93.5%	85.2%	94.3%	3.9%
E1O	Withdrawal from activities of interest	98.0%	96.3%	96.2%	97.4%	96.0%	96.0%	92.6%	96.6%	3.9%
E1P	Reduced social interaction	97.2%	96.9%	96.7%	96.1%	94.6%	95.4%	96.3%	95.9%	3.9%
E2	Mood Persistence	89.2%	84.4%	85.4%	85.2%	85.4%	81.5%	68.0%	85.2%	5.0%
E4AA	Wandering: Frequency	97.2%	97.6%	97.5%	97.6%	96.3%	95.6%	96.3%	96.8%	4.1%
E4AB	Wandering: Alterability	98.9%	99.2%	98.6%	99.1%	98.6%	98.7%	100.0%	98.8%	4.1%
E4BA	Verbal abuse: Frequency	96.6%	94.1%	96.7%	95.6%	94.5%	92.3%	88.9%	94.8%	3.9%
E4BB	Verbal abuse: Alterability	98.5%	97.2%	97.8%	97.4%	97.0%	96.5%	96.3%	97.3%	3.9%
E4CA	Physical abuse: Frequency	98.7%	97.6%	98.1%	97.4%	94.9%	95.7%	96.3%	96.7%	3.9%
E4CB	Physical abuse: Alterability	99.1%	98.6%	99.5%	98.3%	97.4%	97.7%	100.0%	98.2%	3.9%
E4DA	Socially inappropriate: Frequency	96.8%	93.1%	97.3%	93.9%	93.3%	92.2%	100.0%	94.2%	3.9%
E4DB	Socially inappropriate: Alterability	98.6%	96.5%	98.4%	96.3%	95.9%	95.6%	100.0%	96.8%	4.0%
E4EA	Resist care: Frequency	94.0%	89.0%	92.1%	90.7%	90.3%	90.1%	92.6%	91.1%	4.0%
E4EB	Resist care: Alterability	95.1%	93.1%	95.6%	93.9%	93.3%	93.9%	96.3%	94.1%	4.1%
E5	Change in Behavioral Symptoms	95.6%	93.6%	91.9%	89.5%	88.6%	86.1%	92.0%	90.9%	9.8%
F1A	At ease interacting with others	92.9%	95.5%	90.4%	91.8%	92.1%	92.3%	88.9%	91.0%	5.0%
F1B	At ease doing planned/structured activities	91.2%	90.7%	87.7%	90.7%	90.2%	88.1%	85.9%	88.2%	5.1%
F1C	At ease doing self-initiated activities	92.7%	89.7%	91.2%	89.5%	90.1%	90.4%	87.0%	89.1%	5.0%
F1D	Establishes own goals	96.0%	94.5%	94.7%	93.3%	94.7%	92.8%	93.4%	93.9%	5.0%
F1E	Pursues involvement in life of facility	96.2%	92.1%	92.5%	94.8%	95.8%	94.1%	91.4%	93.4%	5.0%
F1F	Accepts invitations to most group activities	96.7%	94.8%	94.7%	94.8%	94.0%	93.2%	89.8%	92.6%	5.0%
F1G	Initiative/involvement: None of Above	97.5%	96.9%	94.3%	97.1%	97.4%	96.0%	93.5%	95.4%	5.0%
F2A	Covert/open conflict with staff	99.2%	97.9%	99.1%	98.3%	98.4%	98.0%	96.9%	97.8%	5.0%
F2B	Unhappy with roommate	99.2%	99.0%	99.1%	99.7%	99.6%	98.3%	98.6%	98.9%	5.0%
F2C	Unhappy with other residents	99.5%	99.7%	98.7%	100.0%	99.5%	99.1%	98.4%	99.0%	5.0%
F2D	Open conflict/anger with family/friends	99.2%	99.3%	99.1%	98.5%	98.8%	97.6%	98.2%	98.5%	5.0%
F2E	Absence of contact with family/friends	99.5%	98.6%	100.0%	99.1%	98.8%	98.2%	98.3%	98.7%	5.0%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
F2F	Recent loss family/friend	99.2%	99.0%	98.7%	99.4%	99.1%	98.7%	98.7%	98.9%	5.0%
F2G	Does not easily adjust to routine change	97.7%	97.2%	96.1%	95.9%	96.7%	97.1%	94.6%	95.9%	5.0%
F2H	Unsettled relationships: None of Above	94.2%	95.5%	92.1%	94.2%	93.2%	92.5%	88.4%	91.5%	5.0%
G1AA	Bed mobility: Self-Performance	88.9%	85.0%	85.0%	87.1%	87.1%	86.9%	66.7%	86.9%	3.4%
G1AB	Bed mobility: Support Provided	90.0%	85.5%	87.4%	87.5%	89.0%	87.9%	81.7%	88.2%	3.5%
G1BA	Transfer: Self-Performance	88.8%	85.8%	85.3%	86.1%	86.5%	87.5%	55.6%	86.8%	3.3%
G1BB	Transfer: Support Provided	89.7%	85.1%	87.4%	86.6%	88.9%	86.9%	83.3%	87.8%	3.4%
G1CA	Walk in room: Self-Performance	89.6%	85.4%	87.5%	86.9%	88.5%	88.2%	63.0%	87.9%	3.3%
G1CB	Walk in room: Support Provided	90.9%	88.8%	89.9%	88.8%	89.2%	89.5%	83.3%	89.5%	3.4%
G1DA	Walk in corridor: Self-Performance	87.8%	83.6%	87.2%	83.4%	87.4%	85.8%	59.3%	86.0%	3.4%
G1DB	Walk in corridor: Support Provided	89.5%	87.5%	89.3%	85.7%	87.7%	86.8%	78.3%	87.6%	3.4%
G1EA	Locomotion on unit: Self-Performance	86.8%	82.2%	83.4%	82.4%	84.3%	84.2%	70.4%	84.2%	3.3%
G1EB	Locomotion on unit: Support Provided	91.5%	90.2%	90.4%	89.8%	89.2%	90.0%	93.3%	90.2%	3.4%
G1FA	Locomotion off unit: Self-Performance	87.1%	81.4%	82.3%	82.8%	83.7%	85.2%	66.7%	84.1%	3.3%
G1FB	Locomotion off unit: Support Provided	91.4%	89.2%	89.3%	88.8%	89.1%	90.0%	96.7%	89.8%	3.4%
G1GA	Dressing: Self-Performance	89.0%	87.0%	84.0%	88.0%	88.0%	86.5%	66.7%	87.3%	3.3%
G1GB	Dressing: Support Provided	93.6%	92.2%	92.9%	92.2%	92.9%	91.2%	91.7%	92.6%	3.4%
G1HA	Eating: Self-Performance	88.2%	88.8%	86.7%	86.7%	87.4%	85.5%	70.4%	87.1%	3.4%
G1HB	Eating: Support Provided	92.2%	90.6%	91.0%	90.9%	92.1%	89.3%	85.0%	91.1%	3.5%
G1IA	Toilet: Self-Performance	89.1%	88.1%	85.9%	88.5%	88.0%	84.6%	66.7%	87.3%	3.3%
G1IB	Toilet: Support Provided	90.5%	88.6%	87.9%	88.6%	88.5%	87.0%	80.0%	88.5%	3.5%
G1JA	Personal hygiene: Self-Performance	87.7%	85.2%	84.0%	86.9%	87.8%	83.6%	66.7%	86.1%	3.3%
G1JB	Personal hygiene: Support Provided	94.0%	91.0%	92.3%	89.8%	92.1%	90.1%	90.0%	91.7%	3.4%
G3A	Balance while standing	90.2%	91.2%	91.5%	92.5%	90.1%	91.4%	76.7%	90.7%	4.1%
G3B	Balance while sitting	90.6%	90.0%	90.1%	89.9%	89.9%	91.3%	86.7%	90.3%	3.9%
G4AA	Neck: Range of motion	98.8%	98.4%	98.9%	98.9%	98.0%	98.8%	100.0%	98.6%	3.5%
G4AB	Neck: Voluntary movement	98.8%	98.4%	98.9%	98.7%	97.9%	99.0%	100.0%	98.6%	3.6%
G4BA	Arm: Range of motion	97.2%	97.4%	98.6%	97.6%	96.9%	97.2%	96.3%	97.3%	3.5%
G4BB	Arm: Voluntary movement	97.6%	96.6%	99.2%	96.8%	97.0%	97.3%	88.9%	97.3%	3.6%
G4CA	Hand: Range of motion	97.7%	96.8%	97.0%	97.4%	97.3%	97.7%	100.0%	97.4%	3.5%
G4CB	Hand: Voluntary movement	97.9%	97.2%	98.6%	97.6%	96.9%	97.1%	88.9%	97.4%	3.6%
G4DA	Leg: Range of motion	95.2%	93.9%	96.5%	96.7%	96.5%	95.0%	81.5%	95.6%	3.6%
G4DB	Leg: Voluntary movement	96.2%	94.3%	97.3%	96.7%	96.2%	95.0%	92.6%	95.9%	3.6%
G4EA	Foot: Range of motion	96.5%	97.4%	95.9%	96.7%	95.2%	95.6%	92.6%	96.0%	3.7%
G4EB	Foot: Voluntary movement	95.9%	96.1%	96.7%	97.2%	95.0%	95.6%	88.9%	95.8%	3.7%
G5D	Wheelchair for primary locomotion	91.7%	91.8%	87.8%	89.5%	90.2%	90.8%	83.1%	87.5%	4.5%
G6A	Bedfast all or most of the time	98.7%	96.4%	97.0%	98.2%	97.6%	97.5%	92.6%	97.6%	3.2%
G6B	Bed rails for bed mobility/transfer	92.5%	94.5%	95.9%	97.0%	93.1%	91.8%	66.7%	93.4%	3.2%
G7	Task Segmentation	93.5%	93.4%	91.9%	92.5%	92.1%	94.1%	96.6%	93.0%	8.0%
G8A	Resident--increased independence capability	94.2%	92.1%	90.9%	91.8%	91.4%	93.0%	90.8%	91.7%	4.5%
G8B	Staff--increased	94.2%	90.4%	89.1%	88.6%	89.4%	91.0%	87.7%	89.4%	4.5%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
	independence capability									
G8C	Resident slow performing tasks/activity	98.0%	97.3%	93.9%	95.3%	93.4%	96.7%	94.0%	94.9%	4.5%
G9	Change in ADL Function	79.5%	67.2%	61.6%	66.3%	63.1%	67.5%	67.1%	67.3%	9.3%
H1A	Bowel continence	90.5%	91.1%	88.6%	89.6%	88.1%	87.7%	81.5%	89.0%	3.7%
H1B	Bladder continence	90.7%	87.8%	88.6%	88.4%	86.7%	85.8%	74.1%	87.8%	3.8%
H2A	Bowel elimination pattern regular	91.7%	90.8%	87.8%	87.2%	87.6%	88.6%	76.8%	84.0%	4.5%
H2B	Constipation	97.2%	92.8%	93.5%	93.3%	93.2%	95.2%	94.3%	94.3%	4.5%
H2C	Diarrhea	95.9%	93.3%	96.2%	95.9%	97.6%	96.3%	93.3%	96.1%	3.3%
H2D	Fecal impaction	99.9%	99.8%	100.0%	99.6%	100.0%	100.0%	100.0%	99.9%	3.2%
H2E	Bowel elimination pattern: None of Above	89.6%	85.2%	87.1%	87.9%	85.0%	80.9%	77.7%	82.8%	4.3%
H3A	Any scheduled toileting plan	95.8%	93.1%	94.0%	93.4%	92.8%	92.8%	88.9%	93.6%	3.2%
H3B	Bladder retraining program	99.9%	99.8%	99.7%	99.8%	99.6%	99.5%	100.0%	99.7%	3.2%
H3H	Enemas/irrigation	99.5%	97.3%	98.7%	99.4%	98.8%	98.9%	99.0%	98.9%	4.5%
I1A	Diabetes mellitus	98.2%	98.6%	98.6%	98.0%	98.5%	97.8%	81.7%	98.0%	3.2%
I1AA	Seizure disorder	99.7%	100.0%	98.7%	98.8%	99.6%	98.7%	97.3%	98.5%	4.5%
I1B	Hyperthyroidism	99.7%	100.0%	100.0%	100.0%	99.9%	99.6%	99.7%	99.8%	4.5%
I1BB	Transient ischemic attack (TIA)	99.2%	99.7%	100.0%	99.4%	99.9%	99.3%	98.8%	99.3%	4.5%
I1C	Hypothyroidism	98.7%	99.7%	98.7%	98.5%	99.4%	97.8%	96.5%	97.9%	4.5%
I1CC	Traumatic brain injury	99.7%	99.3%	99.1%	99.7%	99.9%	99.3%	99.2%	99.4%	4.5%
I1D	Arteriosclerotic heart disease (ASHD)	97.9%	97.9%	97.7%	97.5%	98.2%	98.0%	97.1%	97.7%	3.4%
I1DD	Anxiety disorder	98.5%	99.3%	97.8%	98.8%	98.7%	97.1%	94.1%	96.7%	4.5%
I1E	Cardiac dysrhythmias	98.7%	98.3%	98.3%	96.5%	97.9%	98.0%	96.5%	97.4%	4.5%
I1EE	Depression	96.6%	94.7%	94.8%	91.7%	94.4%	95.6%	70.0%	94.5%	3.2%
I1F	Congestive heart failure	98.4%	97.1%	97.3%	97.2%	98.3%	96.6%	96.1%	97.2%	3.4%
I1FF	Manic depressive (bipolar disease)	99.7%	99.8%	99.2%	99.1%	99.2%	99.4%	98.3%	99.4%	3.2%
I1G	Deep vein thrombosis	99.0%	99.3%	98.3%	98.8%	99.5%	98.3%	98.5%	98.8%	4.5%
I1GG	Schizophrenia	99.6%	100.0%	100.0%	99.2%	99.7%	99.4%	98.7%	99.4%	3.4%
I1H	Hypertension	95.7%	97.3%	94.3%	94.2%	94.3%	93.8%	88.8%	92.4%	4.5%
I1HH	Asthma	99.2%	99.0%	99.2%	99.4%	99.4%	100.0%	98.6%	99.2%	3.4%
I1I	Hypotension	98.7%	99.7%	99.6%	98.8%	99.1%	98.7%	98.8%	99.0%	4.5%
I1II	Emphysema/COPD	98.3%	97.1%	98.1%	98.9%	97.9%	97.8%	96.5%	97.6%	3.4%
I1J	Peripheral vascular disease	98.8%	98.2%	98.8%	97.8%	97.9%	98.7%	95.7%	97.6%	3.4%
I1JJ	Cataracts	98.5%	97.9%	98.3%	98.0%	98.7%	98.3%	96.7%	97.7%	4.5%
I1K	Other cardiovascular disease	96.0%	98.3%	95.2%	96.2%	95.5%	96.3%	93.6%	95.1%	4.5%
I1KK	Diabetic retinopathy	99.7%	99.3%	100.0%	100.0%	99.7%	100.0%	99.5%	99.7%	4.5%
I1L	Arthritis	97.7%	97.3%	97.4%	95.3%	96.5%	95.2%	93.4%	95.2%	4.5%
I1LL	Glaucoma	99.0%	99.3%	99.6%	99.1%	99.9%	99.6%	98.3%	99.0%	4.5%
I1M	Hip fracture	98.5%	97.3%	99.2%	99.1%	99.0%	98.3%	95.0%	98.5%	3.2%
I1MM	Macular degeneration	99.5%	99.3%	99.1%	99.1%	99.4%	99.1%	99.1%	99.2%	4.5%
I1N	Missing limb	100.0%	99.7%	100.0%	99.7%	99.7%	99.4%	99.4%	99.6%	4.5%
I1NN	Allergies	98.0%	94.5%	98.7%	95.9%	95.8%	96.3%	93.5%	95.2%	4.5%
I1O	Osteoporosis	98.7%	99.0%	98.7%	99.4%	98.5%	97.6%	95.6%	97.4%	4.5%
I1OO	Anemia	97.0%	96.2%	98.3%	96.2%	95.5%	95.2%	93.1%	94.9%	4.5%
I1P	Pathological bone fracture	99.5%	100.0%	99.6%	99.7%	99.6%	99.8%	99.5%	99.6%	4.5%
I1PP	Cancer	98.5%	99.3%	98.7%	98.5%	98.3%	99.3%	97.9%	98.4%	4.5%
I1Q	Alzheimer's disease	99.2%	99.3%	97.8%	98.3%	98.3%	98.2%	96.1%	97.5%	4.5%
I1QQ	Renal failure	99.0%	98.6%	99.1%	99.1%	98.3%	97.8%	97.4%	98.1%	4.5%
I1R	Aphasia	99.6%	99.0%	99.7%	98.9%	98.2%	99.4%	100.0%	99.0%	3.2%
I1RR	Diseases: None of Above	93.0%	91.2%	91.8%	90.8%	91.6%	88.2%	96.5%	91.5%	4.2%
I1S	Cerebral palsy	100.0%	100.0%	99.5%	99.4%	99.7%	99.8%	100.0%	99.8%	3.2%
I1T	Cerebrovascular accident (stroke)	97.7%	96.9%	96.2%	95.7%	97.5%	98.0%	83.3%	97.0%	3.2%
I1U	Dementia other than Alzheimer's	97.7%	96.6%	99.1%	96.5%	96.1%	93.9%	89.8%	93.7%	4.5%
I1V	Hemiplegia/hemiparesis	98.7%	99.0%	98.1%	98.1%	98.7%	98.5%	96.7%	98.6%	3.2%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
I1W	Multiple sclerosis	100.0%	100.0%	100.0%	99.8%	100.0%	99.9%	100.0%	100.0%	3.2%
I1X	Paraplegia	100.0%	100.0%	100.0%	100.0%	99.9%	99.8%	99.6%	99.8%	3.4%
I1Y	Parkinson's disease	99.2%	99.7%	98.7%	99.4%	99.5%	99.8%	98.5%	99.1%	4.5%
I1Z	Quadriplegia	99.6%	99.8%	100.0%	99.4%	99.3%	99.6%	100.0%	99.6%	3.2%
I2A	Antibiotic resistant infection	98.5%	98.6%	99.7%	98.9%	98.4%	98.5%	98.3%	98.6%	3.2%
I2B	Clostridium difficile (c. diff.)	99.5%	99.4%	98.6%	99.6%	99.1%	99.8%	98.3%	99.3%	3.2%
I2C	Conjunctivitis	99.8%	99.4%	99.7%	99.4%	99.4%	99.4%	100.0%	99.5%	3.2%
I2D	HIV infection	100.0%	100.0%	100.0%	99.7%	100.0%	99.8%	100.0%	99.9%	38.0%
I2E	Pneumonia	96.5%	95.3%	98.1%	97.2%	97.3%	96.7%	91.7%	96.8%	3.2%
I2F	Respiratory infection	98.1%	97.4%	97.0%	97.6%	96.7%	96.3%	95.0%	97.1%	3.2%
I2G	Septicemia	98.9%	98.8%	99.7%	99.1%	99.3%	99.5%	100.0%	99.2%	3.2%
I2H	Sexually transmitted diseases	99.1%	100.0%	99.6%	100.0%	99.3%	99.8%	100.0%	99.5%	36.8%
I2I	Tuberculosis	99.7%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	3.2%
I2J	Urinary tract infection in last 30 days	92.1%	90.9%	93.0%	88.6%	90.8%	90.6%	66.7%	90.8%	3.1%
I2K	Viral hepatitis	99.9%	99.4%	100.0%	99.8%	99.3%	99.8%	100.0%	99.7%	3.2%
I2L	Wound infection	98.0%	97.8%	97.8%	97.4%	98.0%	98.6%	95.0%	98.0%	3.2%
I2M	Infections: None of Above	87.0%	79.3%	86.3%	80.7%	80.6%	81.1%	65.0%	82.3%	32.8%
I3A	Other diagnosis a	70.3%	68.8%	65.5%	68.8%	67.0%	68.5%	50.0%	68.2%	32.7%
I3B	Other diagnosis b	65.0%	62.9%	67.0%	65.9%	66.4%	65.9%	52.9%	65.5%	46.8%
I3C	Other diagnosis c	77.6%	82.1%	79.5%	82.0%	77.9%	77.2%	57.1%	78.5%	80.4%
I3D	Other diagnosis d	76.5%	79.7%	80.9%	86.2%	82.5%	85.2%	60.0%	81.4%	85.8%
I3E	Other diagnosis e	82.6%	93.2%	87.5%	79.5%	84.5%	86.9%	100.0%	85.2%	90.9%
J1A	Weight fluctuation 3+ lbs in 7 days	96.9%	95.3%	95.1%	98.0%	96.6%	98.2%	95.0%	96.8%	3.3%
J1B	Inability to lie flat--shortness of breath	97.5%	98.0%	97.3%	98.1%	98.0%	98.5%	96.7%	97.9%	3.2%
J1C	Dehydrated--output exceeds input	99.7%	99.8%	99.7%	99.8%	99.9%	100.0%	100.0%	99.8%	3.2%
J1D	Insufficient fluid in last 3 days	99.1%	98.0%	98.4%	98.3%	98.9%	98.4%	98.3%	98.6%	3.2%
J1E	Delusions	99.1%	99.4%	97.5%	98.7%	98.5%	97.9%	100.0%	98.6%	3.2%
J1F	Dizziness/vertigo	100.0%	100.0%	98.7%	98.0%	97.9%	99.3%	98.8%	98.8%	4.5%
J1G	Edema	90.8%	90.2%	90.2%	90.9%	91.8%	90.2%	90.0%	90.8%	3.3%
J1H	Fever	98.0%	97.1%	97.5%	97.4%	97.5%	97.4%	95.0%	97.5%	3.2%
J1I	Hallucinations	99.5%	100.0%	99.5%	98.5%	99.2%	99.3%	100.0%	99.3%	3.2%
J1J	Internal bleeding	99.2%	99.6%	99.5%	99.3%	99.1%	99.3%	100.0%	99.3%	3.2%
J1K	Recurrent lung aspirations in last 90 days	99.7%	99.6%	100.0%	99.8%	99.5%	99.4%	100.0%	99.6%	3.2%
J1L	Shortness of breath	94.5%	92.7%	95.1%	95.4%	95.2%	95.7%	93.3%	94.8%	3.2%
J1M	Syncope (fainting)	99.7%	100.0%	100.0%	99.4%	99.6%	99.8%	99.4%	99.6%	4.5%
J1N	Unsteady gait	92.0%	90.0%	92.1%	92.0%	89.9%	90.5%	78.3%	90.8%	3.2%
J1O	Vomiting	96.9%	96.5%	95.9%	97.8%	97.2%	97.4%	98.3%	97.1%	3.2%
J1P	Problem conditions: None of Above	93.3%	88.0%	88.3%	89.2%	86.6%	82.9%	84.3%	86.4%	4.3%
J2A	Pain: Frequency	84.9%	80.0%	80.9%	77.1%	80.3%	79.4%	70.4%	80.6%	4.2%
J2B	Pain: Intensity	89.6%	82.0%	78.7%	78.1%	80.1%	81.0%	71.4%	82.9%	67.5%
J3C	Chest pain during usual activities	99.1%	100.0%	99.0%	99.3%	99.3%	96.8%	98.3%	98.7%	68.3%
J3D	Headache	97.3%	94.2%	98.0%	96.3%	96.6%	98.7%	92.8%	95.7%	68.3%
J4A	Fell in past 30 days	93.2%	89.1%	90.0%	85.2%	84.3%	88.2%	66.7%	87.9%	3.1%
J4B	Fell in past 31-180 days	92.5%	87.7%	88.6%	85.4%	86.1%	85.6%	77.8%	87.6%	3.1%
J4C	Hip fracture in last 180 days	98.8%	98.8%	98.4%	98.5%	99.0%	98.6%	85.2%	98.6%	3.1%
J4D	Other fracture in last 180 days	97.7%	97.0%	98.6%	96.7%	98.1%	98.4%	88.9%	97.8%	3.1%
J4E	Accidents: None of Above	93.4%	90.9%	90.8%	88.0%	86.1%	85.1%	85.2%	88.6%	3.1%
J5A	Conditions/diseases lead to instability	92.1%	88.9%	91.1%	88.0%	87.6%	88.2%	85.2%	89.1%	3.1%
J5B	Resident experiencing	92.2%	87.7%	90.0%	87.8%	90.8%	90.7%	88.9%	90.3%	3.1%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
	acute episode/flare-up									
J5C	End-stage disease, 6 or fewer months to live	99.3%	99.2%	97.3%	98.2%	98.7%	99.3%	100.0%	98.8%	3.1%
J5D	Stability of conditions: None of Above	92.2%	87.3%	89.4%	87.1%	85.5%	83.8%	88.9%	87.4%	3.1%
K1A	Chewing problem	95.6%	93.9%	96.7%	94.4%	94.2%	93.8%	90.0%	94.6%	3.2%
K1B	Swallowing problem	96.6%	95.7%	96.2%	94.8%	95.5%	94.5%	86.7%	95.4%	3.2%
K1C	Mouth pain	99.5%	99.7%	100.0%	98.5%	99.6%	99.1%	99.5%	99.4%	4.5%
K1D	Oral problems: None of Above	95.0%	93.0%	96.5%	93.3%	91.8%	91.1%	88.2%	92.4%	4.3%
K2A	Height (inches)	97.6%	96.9%	97.8%	96.4%	97.2%	96.8%	88.3%	97.0%	4.1%
K2B	Weight (pounds)	69.0%	48.1%	41.6%	33.1%	27.5%	23.4%	0.0%	39.2%	4.6%
K3A	Weight loss	93.5%	93.4%	93.0%	90.2%	90.1%	92.0%	81.5%	91.8%	6.0%
K3B	Weight gain	96.3%	94.4%	96.4%	95.2%	93.1%	93.6%	88.9%	94.5%	6.0%
K5A	Parenteral IV	97.1%	98.0%	98.4%	98.7%	98.6%	98.8%	95.0%	98.2%	3.2%
K5B	Feeding tube	99.0%	99.2%	98.9%	99.3%	99.3%	99.3%	96.3%	99.2%	3.1%
K5C	Mechanically altered diet	95.0%	92.8%	97.0%	93.6%	92.1%	91.5%	87.3%	90.8%	4.5%
K5E	Therapeutic diet	94.2%	90.8%	89.6%	89.5%	90.0%	87.8%	83.7%	87.6%	4.5%
K6A	Total calories (%) received in last 7 days	93.7%	90.0%	91.4%	98.0%	89.5%	91.7%	100.0%	92.3%	90.8%
K6B	Average fluid intake (daily) in last 7 days	86.5%	82.0%	85.7%	84.3%	83.8%	85.0%	50.0%	84.4%	90.8%
M1A	Ulcers: Stage 1	96.0%	96.1%	95.4%	95.5%	96.4%	98.2%	96.2%	96.4%	3.7%
M1B	Ulcers: Stage 2	95.2%	93.1%	92.7%	92.0%	93.6%	94.9%	81.5%	93.8%	3.6%
M1C	Ulcers: Stage 3	99.5%	98.0%	98.1%	98.0%	98.9%	98.3%	100.0%	98.6%	3.7%
M1D	Ulcers: Stage 4	98.6%	98.2%	97.3%	97.4%	98.1%	98.2%	96.3%	98.0%	3.6%
M2A	Pressure ulcer highest stage	94.1%	93.9%	93.2%	93.1%	92.8%	95.5%	81.5%	93.7%	3.6%
M2B	Stasis ulcer highest stage	99.5%	99.0%	98.6%	98.1%	98.8%	99.1%	100.0%	98.9%	3.7%
M3	History of resolved ulcers	95.0%	93.4%	90.0%	93.3%	92.9%	91.9%	90.3%	92.3%	7.2%
M4B	Burns (second or third degree)	99.6%	99.6%	99.7%	99.4%	99.9%	100.0%	100.0%	99.7%	3.2%
M4C	Open lesions other than ulcers, rashes, cuts	98.9%	97.6%	96.2%	97.6%	97.5%	97.9%	100.0%	97.8%	3.2%
M4E	Skin desensitized to pain or pressure	96.0%	97.1%	95.1%	94.8%	95.1%	95.9%	98.3%	95.7%	3.2%
M4G	Surgical wounds	95.6%	94.1%	94.8%	96.5%	96.7%	96.8%	90.0%	95.9%	3.2%
M5A	Pressure relieving device(s) for chair	94.3%	93.3%	92.6%	93.9%	93.0%	91.6%	93.3%	93.1%	3.2%
M5B	Pressure relieving device(s) for bed	97.1%	94.9%	95.4%	93.1%	94.3%	91.8%	86.7%	94.3%	3.2%
M5C	Turning/repositioning program	94.2%	93.7%	91.0%	92.9%	93.6%	92.0%	88.3%	93.1%	3.2%
M5D	Nutrition/hydration intervention	95.3%	92.7%	92.9%	92.9%	93.2%	94.0%	90.0%	93.6%	3.2%
M5E	Ulcer care	96.3%	97.4%	94.8%	94.4%	94.5%	95.3%	90.0%	95.3%	3.2%
M5F	Surgical wound care	96.4%	95.7%	96.2%	97.0%	97.0%	97.7%	90.0%	96.7%	3.2%
M5G	Application of dressings	91.8%	90.4%	90.7%	88.5%	90.1%	89.8%	78.3%	90.1%	3.2%
M5H	Application of ointments/medications	90.0%	87.6%	86.4%	83.9%	85.7%	83.1%	76.7%	86.0%	3.2%
M5I	Other preventative/protective skin care	91.5%	89.2%	89.9%	87.2%	89.9%	89.2%	88.3%	89.7%	3.2%
M5J	Skin treatments: None of Above	97.7%	97.4%	95.6%	94.8%	96.1%	95.2%	81.7%	96.0%	3.2%
M6B	Infection of foot--e.g., cellulitis, etc.	99.3%	97.6%	99.5%	98.3%	98.6%	98.8%	100.0%	98.7%	3.2%
M6C	Open lesions on foot	98.5%	97.8%	98.1%	98.7%	98.3%	97.7%	100.0%	98.2%	3.2%
M6F	Application of dressings	97.1%	94.9%	95.6%	95.7%	96.1%	94.1%	100.0%	95.8%	3.2%
N1A	Awake in morning	95.9%	95.4%	95.4%	96.9%	95.5%	95.0%	77.8%	95.5%	3.2%
N1B	Awake in afternoon	94.0%	93.9%	95.4%	94.5%	95.7%	94.4%	88.9%	94.7%	3.2%
N1C	Awake in evening	92.7%	89.9%	89.7%	91.7%	91.4%	90.7%	81.5%	91.2%	3.2%
N1D	Awake: None of Above	97.8%	97.6%	97.8%	98.0%	97.8%	98.1%	92.6%	97.8%	3.2%
N2	Average Time Involved in Activities	96.0%	94.5%	93.9%	95.9%	93.5%	94.8%	92.6%	94.7%	4.6%
O2	New Medications	91.7%	85.7%	80.3%	83.0%	75.7%	71.6%	64.4%	73.7%	8.4%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
O3	Injections (number days)	80.9%	77.5%	82.4%	83.8%	85.4%	86.0%	55.0%	82.8%	6.1%
O4A	Antipsychotic	97.1%	94.9%	95.1%	96.1%	94.6%	92.6%	92.6%	95.0%	4.1%
O4B	Antianxiety	93.8%	91.6%	92.4%	93.0%	93.1%	90.8%	77.8%	92.5%	4.0%
O4C	Antidepressants	92.4%	89.0%	91.6%	90.7%	91.1%	90.2%	59.3%	90.8%	3.9%
O4D	Hypnotic	95.2%	94.7%	95.7%	94.2%	95.6%	95.6%	74.1%	95.1%	4.2%
O4E	Diuretic	90.2%	90.2%	93.0%	91.6%	92.5%	90.1%	63.0%	91.1%	4.0%
P1AA	Chemotherapy	99.8%	99.4%	100.0%	99.6%	99.7%	100.0%	100.0%	99.8%	3.2%
P1AB	Dialysis	99.5%	99.6%	100.0%	100.0%	99.9%	99.9%	100.0%	99.8%	3.2%
P1AC	IV medication	90.1%	89.8%	91.6%	92.6%	93.8%	95.3%	86.7%	92.4%	3.2%
P1AE	Monitoring acute medical condition	89.6%	85.3%	86.4%	85.3%	85.3%	86.1%	93.3%	86.5%	3.2%
P1AG	Oxygen therapy	94.5%	93.1%	93.5%	93.1%	94.2%	94.6%	90.0%	94.0%	3.2%
P1AH	Radiation	99.9%	99.6%	99.7%	99.8%	99.6%	99.6%	100.0%	99.7%	3.2%
P1AI	Suctioning	99.5%	99.2%	98.9%	99.6%	99.7%	99.1%	100.0%	99.4%	3.2%
P1AJ	Tracheostomy care	99.3%	99.2%	100.0%	99.6%	99.6%	99.6%	100.0%	99.5%	3.2%
P1AK	Transfusions	97.6%	98.8%	98.9%	99.3%	98.6%	99.4%	95.0%	98.6%	3.2%
P1AL	Ventilator or respirator	99.2%	99.6%	100.0%	99.8%	99.7%	99.3%	100.0%	99.5%	3.2%
P1AO	Hospice care	99.8%	98.6%	98.1%	99.1%	98.7%	98.6%	100.0%	98.9%	3.2%
P1AP	Pediatric unit	100.0%	99.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	3.2%
P1AQ	Respite care	99.9%	99.8%	100.0%	99.8%	100.0%	99.9%	100.0%	99.9%	3.2%
P1AR	Training in community skills	94.5%	91.4%	94.0%	94.2%	96.1%	96.2%	95.0%	94.8%	3.2%
P1BAA	Speech therapy: # days	91.2%	90.6%	92.8%	92.0%	95.7%	95.8%	95.0%	93.5%	5.3%
P1BAB	Speech therapy: total # minutes	87.5%	88.8%	90.7%	91.8%	95.4%	95.6%	95.0%	92.2%	7.2%
P1BBA	Occupational therapy: # days	76.9%	75.5%	83.4%	86.8%	88.4%	91.4%	71.7%	84.2%	5.2%
P1BBB	Occupational therapy: total # minutes	66.0%	64.2%	76.1%	82.6%	87.6%	90.6%	68.3%	79.1%	6.9%
P1BCA	Physical therapy: # days	76.4%	71.1%	80.3%	84.1%	85.9%	88.8%	65.0%	81.8%	5.3%
P1BCB	Physical therapy: total # minutes	61.8%	61.2%	71.8%	78.6%	84.8%	87.9%	61.7%	75.6%	7.0%
P1BDA	Respiratory therapy: # days	98.4%	98.5%	97.2%	96.7%	97.9%	97.9%	98.3%	97.9%	5.9%
P1BDB	Respiratory therapy: total # minutes	96.7%	96.4%	95.2%	95.7%	95.2%	94.8%	98.3%	95.7%	7.9%
P1BEA	Psychotherapy: # days	99.0%	98.3%	98.3%	99.0%	97.9%	98.5%	98.3%	98.5%	6.0%
P1BEB	Psychotherapy: total # minutes	99.0%	97.9%	98.3%	98.8%	97.7%	97.9%	98.3%	98.2%	7.9%
P3A	Nursing rehab: Range of motion (passive)	97.7%	94.6%	93.2%	93.6%	91.8%	91.9%	98.3%	93.8%	4.3%
P3B	Nursing rehab: Range of motion (active)	95.8%	90.2%	89.6%	88.7%	84.0%	87.0%	81.7%	88.7%	4.3%
P3C	Nursing rehab: Splint or brace assistance	99.1%	99.8%	98.6%	97.9%	97.1%	97.4%	93.3%	98.1%	4.4%
P3D	Nursing rehab: Bed mobility	99.7%	97.9%	98.9%	99.1%	98.6%	98.8%	100.0%	98.9%	4.4%
P3E	Nursing rehab: Transfer	98.6%	95.2%	97.5%	97.6%	96.2%	95.4%	95.0%	96.7%	4.4%
P3F	Nursing rehab: Walking	97.1%	92.9%	88.5%	90.3%	87.7%	89.0%	85.0%	90.8%	4.3%
P3G	Nursing rehab: Dressing or grooming	99.1%	97.3%	98.1%	97.0%	96.7%	97.5%	98.3%	97.6%	4.3%
P3H	Nursing rehab: Eating or swallowing	98.7%	98.5%	98.1%	98.5%	97.0%	97.3%	98.3%	97.9%	4.3%
P3I	Nursing rehab: Amputation/prosthesis care	100.0%	100.0%	99.7%	100.0%	100.0%	99.9%	100.0%	100.0%	4.4%
P3J	Nursing rehab: Communication	99.9%	100.0%	98.6%	99.3%	99.1%	99.3%	100.0%	99.4%	4.4%
P3K	Nursing rehab: Other	99.2%	98.3%	97.8%	98.1%	96.7%	97.1%	98.3%	97.8%	5.1%
P5	Hospital Stays	83.5%	75.3%	74.1%	76.0%	73.0%	78.2%	74.9%	75.8%	7.1%
P6	Emergency Room (ER) Visits	96.7%	93.8%	92.0%	92.9%	91.6%	93.3%	89.2%	91.6%	6.8%
P7	Physician Visits	68.5%	52.1%	48.6%	50.4%	52.7%	55.8%	33.3%	55.6%	4.1%
P8	Physician Orders	58.6%	42.4%	36.1%	41.9%	38.9%	40.4%	25.0%	43.6%	4.2%
Q2	Overall Change in Care	79.0%	79.6%	82.2%	84.9%	85.6%	87.1%	55.6%	83.3%	4.4%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
	Needs									
T1AA	Recreation therapy: # of days	100.0%	100.0%	100.0%	100.0%	99.8%	100.0%	100.0%	99.9%	67.5%
T1AB	Recreation therapy: Total # minutes	100.0%	100.0%	100.0%	100.0%	99.8%	100.0%	100.0%	99.9%	67.5%
T1B	Ordered Therapies	--	--	--	--	--	--	--	--	100.0%
T1C	Ordered therapy: Estimated days until day 15	--	--	--	--	--	--	--	--	100.0%
T1D	Ordered therapy: Estimated minutes until day 15	--	--	--	--	--	--	--	--	100.0%
<b>Total</b>		<b>95.2%</b>	<b>94.0%</b>	<b>94.2%</b>	<b>94.1%</b>	<b>93.9%</b>	<b>93.8%</b>	<b>89.2%</b>	<b>93.8%</b>	<b>9.6%</b>
<b>Cum Gap</b>		<b>17.8%</b>	<b>27.9%</b>	<b>35.4%</b>	<b>46.5%</b>	<b>71.0%</b>	<b>87.9%</b>	<b>100.0%</b>		

**Table 10. Match Rates Between Post-RPT Values and STRIVE MDS Values**

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
AB10B	Down's syndrome	100.0%	100.0%	100.0%	--	83.3%	100.0%	100.0%	96.0%	99.4%
AB10C	Autism	100.0%	100.0%	100.0%	--	100.0%	100.0%	100.0%	100.0%	99.5%
AB10D	Epilepsy	75.0%	100.0%	0.0%	--	100.0%	100.0%	100.0%	91.7%	99.5%
AB10E	Other organic condition related to MR/DD	100.0%	100.0%	100.0%	--	100.0%	100.0%	100.0%	100.0%	99.4%
AB10F	MR/DD with no organic condition	75.0%	100.0%	0.0%	--	80.0%	100.0%	66.7%	83.3%	99.5%
AB2	Admitted from (at Entry)	95.0%	92.6%	93.8%	95.6%	89.6%	92.0%	82.1%	92.4%	85.7%
AB5D	MH/psychiatric setting	99.8%	99.4%	98.2%	99.2%	99.0%	99.5%	100.0%	99.3%	69.8%
AB5E	MR/DD setting	99.5%	100.0%	98.2%	100.0%	100.0%	100.0%	98.6%	99.6%	69.8%
AB9	Mental Health History	97.9%	98.3%	91.4%	100.0%	97.1%	96.0%	94.6%	97.1%	85.5%
B1	Comatose	100.0%	99.8%	100.0%	99.7%	99.7%	99.7%	100.0%	99.8%	18.2%
B2A	Short-term memory OK	96.2%	93.1%	95.7%	93.6%	95.6%	95.2%	92.6%	95.1%	19.6%
B2B	Long-term memory OK	96.6%	94.6%	95.7%	93.1%	95.4%	94.6%	88.9%	95.1%	19.5%
B3A	Recall current season	95.5%	92.9%	92.9%	90.5%	93.3%	92.0%	89.3%	93.0%	19.8%
B3B	Recall location of own room	95.2%	95.2%	94.4%	92.7%	93.9%	93.3%	85.7%	94.0%	19.8%
B3C	Recall staff names/faces	94.3%	90.7%	93.2%	92.1%	93.3%	91.5%	100.0%	92.7%	19.8%
B3D	Recall that he/she in nursing home	96.5%	96.2%	94.8%	93.8%	94.5%	92.1%	96.4%	94.5%	19.8%
B3E	Recall: None of Above	96.3%	96.2%	95.7%	94.6%	95.5%	95.0%	96.4%	95.5%	19.8%
B4	Cognitive Skills/Daily Decision Making	91.9%	89.1%	86.7%	84.7%	86.8%	86.4%	78.6%	87.6%	18.5%
B5A	Easily distracted	96.5%	94.4%	95.1%	93.9%	92.9%	93.4%	82.1%	94.0%	18.9%
B5B	Periods of altered perception/awareness	97.8%	96.1%	94.8%	93.1%	93.7%	94.8%	100.0%	95.0%	18.6%
B5C	Episodes of disorganized speech	97.0%	93.9%	95.8%	92.6%	93.4%	94.4%	96.4%	94.5%	18.6%
B5D	Periods of restlessness	94.4%	93.2%	93.3%	91.6%	90.6%	93.3%	96.4%	92.5%	18.6%
B5E	Periods of lethargy	95.3%	94.4%	93.9%	93.1%	93.8%	94.4%	92.9%	94.2%	18.6%
B5F	Mental function varies during day	94.1%	90.5%	88.8%	91.0%	90.4%	92.0%	96.4%	91.4%	18.6%
B6	Change in Cognitive Status	94.2%	88.5%	85.8%	83.4%	82.3%	83.7%	91.1%	86.9%	53.9%
C1	Hearing	96.0%	90.5%	94.3%	93.5%	90.8%	92.2%	86.2%	91.1%	53.9%
C2A	Hearing aid present/used	98.6%	96.0%	96.7%	97.5%	97.3%	98.5%	95.6%	97.2%	52.8%
C2C	Other receptive comm. techniques used	99.6%	98.0%	98.4%	100.0%	99.2%	99.8%	99.6%	99.4%	52.8%
C3A	Speech	95.7%	92.1%	97.6%	95.6%	96.3%	95.0%	92.4%	94.8%	52.8%
C3B	Writing messages	98.9%	98.7%	98.4%	98.7%	98.5%	98.8%	99.2%	98.8%	52.8%
C3C	Amer. sign language/Braille	100.0%	100.0%	100.0%	100.0%	99.6%	100.0%	100.0%	99.9%	52.8%
C3D	Signs/gestures/sounds	96.4%	92.1%	96.7%	91.1%	93.1%	95.0%	93.6%	94.0%	52.8%
C3E	Communication board	99.6%	98.7%	99.2%	99.4%	99.2%	99.3%	100.0%	99.4%	52.8%
C3F	Other	100.0%	100.0%	100.0%	96.8%	99.4%	98.5%	98.8%	99.1%	52.8%
C3G	Modes of expression: None of Above	98.9%	96.0%	98.4%	98.1%	98.5%	99.0%	97.6%	98.2%	52.8%
C4	Making Self Understood	94.9%	90.5%	90.3%	89.1%	90.1%	89.8%	96.4%	90.9%	18.6%
C5	Speech Clarity	98.2%	97.3%	95.9%	91.0%	92.0%	90.4%	90.1%	92.6%	53.7%
C6	Ability to Understand Others	94.5%	87.8%	87.3%	86.0%	89.2%	89.1%	89.3%	89.4%	18.6%
D1	Vision	93.1%	93.0%	91.2%	87.1%	91.7%	86.9%	82.1%	89.3%	43.4%
D2A	Side vision problems	99.3%	99.3%	99.2%	98.7%	98.1%	99.0%	98.2%	98.6%	52.8%
D2B	Sees halos/rings/flashess/curtains	99.6%	100.0%	99.2%	100.0%	99.6%	99.5%	99.2%	99.5%	52.8%
D2C	Visual limitations: None of Above	97.1%	95.4%	98.4%	97.5%	95.8%	96.3%	92.8%	95.6%	52.8%
D3	Visual Appliances	96.7%	94.5%	91.8%	93.6%	92.8%	93.9%	91.2%	93.3%	53.9%
E1A	Negative statements	96.4%	95.6%	94.9%	95.8%	93.5%	93.8%	96.3%	94.7%	18.6%
E1B	Repetitive questions	96.7%	94.2%	97.0%	95.8%	95.1%	93.1%	92.6%	95.1%	18.6%
E1C	Repetitive verbalizations	97.7%	94.9%	93.1%	94.5%	92.3%	92.4%	92.6%	93.8%	18.6%
E1D	Persistent anger with self/others	92.5%	92.5%	88.5%	88.7%	89.2%	88.6%	88.9%	89.9%	18.6%
E1E	Self deprecation	97.7%	97.1%	97.6%	96.6%	96.5%	97.4%	100.0%	97.1%	18.6%
E1F	Expression of unrealistic fears	97.7%	96.6%	96.4%	96.6%	94.9%	96.0%	96.3%	96.1%	18.6%
E1G	Recurrent statements of terrible future	98.6%	98.5%	97.6%	98.2%	97.3%	98.1%	100.0%	98.0%	18.7%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
E1H	Repetitive health complaints	95.5%	93.4%	90.9%	92.6%	91.1%	92.0%	92.6%	92.5%	18.6%
E1I	Repetitive anxious complaints/concerns	95.3%	94.4%	89.1%	89.7%	88.6%	88.6%	96.3%	90.7%	18.6%
E1J	Unpleasant mood in morning	97.5%	96.6%	94.3%	95.3%	95.4%	93.4%	92.6%	95.3%	18.6%
E1K	Insomnia/change in sleeping pattern	95.0%	93.2%	93.4%	92.9%	90.5%	92.0%	88.9%	92.4%	18.6%
E1L	Sad/pained/worried facial expressions	90.0%	85.4%	87.0%	82.6%	83.6%	85.4%	73.1%	85.4%	18.6%
E1M	Crying/tearfulness	96.7%	95.1%	94.3%	92.1%	92.2%	93.4%	100.0%	93.8%	18.7%
E1N	Repetitive physical movements	94.8%	92.7%	91.2%	92.3%	89.7%	92.1%	92.6%	91.9%	18.6%
E1O	Withdrawal from activities of interest	96.9%	94.4%	95.1%	94.5%	94.7%	94.7%	100.0%	95.1%	18.6%
E1P	Reduced social interaction	96.6%	94.7%	95.5%	92.9%	92.6%	93.7%	100.0%	94.1%	18.6%
E2	Mood Persistence	85.4%	80.1%	75.9%	76.1%	76.6%	79.1%	69.2%	78.9%	19.6%
E4AA	Wandering: Frequency	96.9%	95.6%	93.9%	94.4%	94.9%	94.8%	96.4%	95.2%	18.8%
E4AB	Wandering: Alterability	98.9%	98.1%	97.6%	97.6%	97.7%	97.4%	96.4%	97.9%	18.8%
E4BA	Verbal abuse: Frequency	96.2%	94.4%	88.8%	90.2%	91.7%	91.8%	96.4%	92.4%	18.7%
E4BB	Verbal abuse: Alterability	98.0%	96.6%	95.2%	95.0%	95.5%	95.3%	96.4%	95.9%	18.7%
E4CA	Physical abuse: Frequency	96.7%	95.6%	95.2%	93.9%	94.0%	95.1%	92.9%	95.0%	18.6%
E4CB	Physical abuse: Alterability	98.6%	97.3%	97.9%	96.6%	96.8%	96.8%	92.9%	97.2%	18.7%
E4DA	Socially inappropriate: Frequency	95.8%	92.7%	91.8%	88.9%	89.3%	89.2%	89.3%	91.0%	18.7%
E4DB	Socially inappropriate: Alterability	97.8%	95.4%	94.3%	93.4%	94.0%	94.3%	89.3%	94.8%	18.7%
E4EA	Resist care: Frequency	90.1%	91.2%	88.2%	85.1%	85.7%	83.7%	85.7%	86.8%	18.7%
E4EB	Resist care: Alterability	93.4%	92.7%	93.1%	91.2%	91.2%	89.6%	85.7%	91.5%	18.8%
E5	Change in Behavioral Symptoms	90.9%	81.8%	78.7%	77.7%	83.0%	82.5%	89.6%	84.7%	54.9%
F1A	At ease interacting with others	92.4%	90.7%	88.6%	89.9%	90.2%	87.8%	83.9%	88.5%	52.8%
F1B	At ease doing planned/structured activities	90.3%	91.4%	89.4%	86.7%	86.2%	84.8%	75.9%	84.6%	52.8%
F1C	At ease doing self-initiated activities	91.4%	87.4%	85.4%	86.7%	85.6%	82.8%	78.5%	84.4%	52.8%
F1D	Establishes own goals	91.4%	90.7%	91.9%	88.0%	89.8%	91.5%	88.2%	90.0%	52.8%
F1E	Pursues involvement in life of facility	97.1%	89.4%	89.4%	89.9%	92.5%	89.8%	83.1%	89.8%	52.8%
F1F	Accepts invitations to most group activities	95.7%	96.0%	92.7%	91.8%	90.8%	89.6%	86.7%	90.8%	52.8%
F1G	Initiative/involvement: None of Above	96.8%	96.0%	94.3%	94.3%	95.2%	91.5%	93.6%	94.3%	52.7%
F2A	Covert/open conflict with staff	97.8%	98.0%	96.7%	94.9%	96.9%	93.3%	94.6%	95.7%	52.8%
F2B	Unhappy with roommate	98.6%	99.3%	97.6%	99.4%	97.7%	98.8%	97.0%	98.1%	52.8%
F2C	Unhappy with other residents	99.3%	98.7%	95.1%	98.7%	98.5%	98.3%	97.6%	98.2%	52.8%
F2D	Open conflict/anger with family/friends	98.2%	98.0%	96.7%	96.8%	97.5%	97.0%	97.8%	97.5%	52.8%
F2E	Absence of contact with family/friends	99.3%	96.7%	96.7%	98.1%	97.9%	96.3%	97.2%	97.5%	52.8%
F2F	Recent loss family/friend	98.6%	98.7%	97.6%	97.5%	97.3%	98.3%	99.0%	98.2%	52.8%
F2G	Does not easily adjust to routine change	94.9%	97.4%	91.9%	94.3%	92.7%	92.5%	91.4%	93.0%	52.8%
F2H	Unsettled relationships: None of Above	89.5%	90.1%	91.1%	87.9%	89.4%	85.1%	83.9%	87.4%	52.8%
G1AA	Bed mobility: Self-Performance	86.3%	81.1%	80.5%	76.5%	76.1%	82.0%	67.9%	80.0%	18.1%
G1AB	Bed mobility: Support Provided	88.3%	81.0%	79.8%	74.3%	80.9%	81.8%	60.7%	81.4%	18.5%
G1BA	Transfer: Self-Performance	87.7%	82.3%	82.6%	76.6%	77.6%	79.4%	60.7%	80.5%	18.1%
G1BB	Transfer: Support Provided	85.4%	82.2%	80.1%	78.1%	80.3%	81.2%	67.9%	81.2%	18.5%
G1CA	Walk in room: Self-Performance	87.4%	82.8%	82.9%	77.6%	83.3%	84.4%	64.3%	83.4%	18.1%
G1CB	Walk in room: Support Provided	88.6%	84.4%	84.3%	79.6%	85.6%	86.1%	71.4%	85.2%	18.4%
G1DA	Walk in corridor: Self-Performance	87.5%	80.1%	81.3%	78.1%	80.6%	82.2%	60.7%	81.7%	18.1%
G1DB	Walk in corridor: Support	88.6%	82.2%	83.7%	79.3%	82.8%	84.0%	71.4%	83.6%	18.5%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
	Provided									
G1EA	Locomotion on unit: Self-Performance	84.4%	77.9%	78.1%	70.1%	76.2%	79.0%	53.6%	77.7%	18.1%
G1EB	Locomotion on unit: Support Provided	91.5%	86.9%	86.7%	80.9%	86.5%	85.8%	78.6%	86.6%	18.5%
G1FA	Locomotion off unit: Self-Performance	85.0%	78.2%	76.9%	70.1%	76.2%	78.9%	50.0%	77.7%	18.0%
G1FB	Locomotion off unit: Support Provided	92.7%	86.4%	85.5%	81.5%	86.0%	85.3%	71.4%	86.4%	18.5%
G1GA	Dressing: Self-Performance	89.9%	84.7%	81.7%	78.4%	79.6%	81.7%	67.9%	82.4%	18.0%
G1GB	Dressing: Support Provided	94.5%	90.5%	89.5%	87.2%	87.6%	88.1%	75.0%	89.3%	18.5%
G1HA	Eating: Self-Performance	87.7%	83.0%	76.6%	74.7%	76.4%	77.8%	75.0%	79.2%	18.1%
G1HB	Eating: Support Provided	93.0%	86.6%	80.7%	84.3%	83.0%	85.8%	82.1%	85.6%	18.5%
G1IA	Toilet: Self-Performance	87.2%	80.3%	83.2%	80.7%	78.1%	78.5%	67.9%	80.7%	18.1%
G1IB	Toilet: Support Provided	88.0%	85.4%	82.5%	80.7%	81.2%	81.1%	64.3%	82.7%	18.5%
G1JA	Personal hygiene: Self-Performance	85.5%	84.2%	78.4%	76.6%	77.3%	82.5%	67.9%	80.5%	18.0%
G1JB	Personal hygiene: Support Provided	92.1%	86.6%	86.1%	82.8%	87.2%	89.3%	75.0%	87.8%	18.5%
G3A	Balance while standing	91.7%	88.0%	85.2%	88.1%	85.1%	85.3%	78.6%	86.9%	19.2%
G3B	Balance while sitting	90.0%	85.3%	84.0%	82.4%	85.7%	84.9%	89.3%	85.7%	19.0%
G4AA	Neck: Range of motion	98.7%	98.5%	96.1%	96.9%	97.7%	97.2%	78.6%	97.5%	18.2%
G4AB	Neck: Voluntary movement	98.7%	98.1%	96.7%	97.1%	97.7%	97.3%	78.6%	97.5%	18.3%
G4BA	Arm: Range of motion	97.5%	93.4%	95.5%	94.5%	94.5%	94.2%	71.4%	94.8%	18.2%
G4BB	Arm: Voluntary movement	97.5%	94.7%	94.6%	94.0%	94.7%	94.8%	82.1%	95.0%	18.3%
G4CA	Hand: Range of motion	97.5%	96.6%	96.1%	95.8%	95.7%	96.3%	89.3%	96.2%	18.3%
G4CB	Hand: Voluntary movement	98.0%	96.4%	95.8%	95.0%	95.7%	96.0%	85.7%	96.1%	18.3%
G4DA	Leg: Range of motion	95.9%	92.7%	93.1%	90.6%	92.8%	92.3%	75.0%	92.9%	18.3%
G4DB	Leg: Voluntary movement	96.1%	93.4%	92.4%	91.9%	93.8%	92.5%	75.0%	93.4%	18.4%
G4EA	Foot: Range of motion	95.6%	94.7%	93.1%	93.5%	93.6%	94.3%	78.6%	94.0%	18.4%
G4EB	Foot: Voluntary movement	95.4%	94.4%	91.8%	92.1%	93.5%	94.0%	82.1%	93.7%	18.4%
G5D	Wheelchair for primary locomotion	92.5%	94.0%	92.7%	84.9%	87.4%	84.2%	82.1%	86.8%	52.5%
G6A	Bedfast all or most of the time	96.9%	97.6%	97.6%	96.6%	97.3%	97.4%	92.6%	97.2%	17.8%
G6B	Bed rails for bed mobility/transfer	94.0%	91.5%	93.1%	90.9%	91.4%	90.0%	85.2%	91.6%	17.8%
G7	Task Segmentation	91.7%	90.2%	93.4%	89.5%	89.0%	90.0%	88.9%	90.3%	22.4%
G8A	Resident--increased independence capability	94.3%	94.7%	95.1%	86.8%	92.2%	92.6%	89.0%	91.7%	52.5%
G8B	Staff--increased independence capability	92.5%	94.7%	95.9%	87.4%	88.6%	90.3%	90.0%	90.5%	52.5%
G8C	Resident slow performing tasks/activity	96.1%	94.7%	94.3%	97.5%	91.8%	94.3%	93.2%	93.9%	52.5%
G9	Change in ADL Function	84.6%	80.4%	76.9%	63.2%	70.9%	69.0%	72.4%	73.1%	54.9%
H1A	Bowel continence	88.3%	81.8%	77.9%	81.2%	78.7%	79.5%	82.1%	81.1%	18.3%
H1B	Bladder continence	89.2%	82.2%	82.2%	78.3%	79.2%	78.6%	67.9%	81.2%	18.4%
H2A	Bowel elimination pattern regular	92.8%	86.1%	84.6%	83.0%	82.5%	83.2%	69.6%	81.3%	52.4%
H2B	Constipation	95.3%	94.0%	91.1%	91.8%	90.3%	89.4%	91.5%	91.5%	52.4%
H2C	Diarrhea	95.4%	95.1%	94.0%	95.8%	95.0%	95.4%	92.6%	95.1%	18.2%
H2D	Fecal impaction	100.0%	99.8%	100.0%	99.7%	100.0%	100.0%	100.0%	99.9%	17.8%
H2E	Bowel elimination pattern: None of Above	91.5%	76.2%	79.3%	75.6%	77.0%	78.6%	68.5%	77.4%	47.4%
H3A	Any scheduled toileting plan	93.3%	92.7%	88.6%	89.6%	90.0%	89.6%	100.0%	90.7%	17.8%
H3B	Bladder retraining program	100.0%	99.8%	99.7%	99.0%	99.6%	99.5%	100.0%	99.6%	17.8%
H3H	Enemas/irrigation	99.6%	98.7%	100.0%	98.7%	99.2%	98.3%	98.6%	98.9%	52.4%
I1A	Diabetes mellitus	98.1%	98.1%	98.2%	96.6%	98.2%	97.4%	96.4%	97.8%	18.2%
I1AA	Seizure disorder	99.6%	99.3%	99.2%	96.9%	98.3%	96.8%	95.2%	97.5%	52.4%
I1B	Hyperthyroidism	99.3%	100.0%	99.2%	100.0%	99.4%	99.3%	99.0%	99.3%	52.4%
I1BB	Transient ischemic attack (TIA)	99.6%	98.7%	100.0%	97.5%	97.7%	97.8%	96.2%	97.8%	52.4%
I1C	Hypothyroidism	97.1%	97.4%	97.6%	97.5%	97.5%	96.8%	94.8%	96.7%	52.4%
I1CC	Traumatic brain injury	100.0%	99.3%	100.0%	100.0%	99.6%	99.0%	98.0%	99.2%	52.4%
I1D	Arteriosclerotic heart disease (ASHD)	98.2%	97.3%	96.9%	98.3%	96.6%	96.8%	92.6%	96.5%	35.9%
I1DD	Anxiety disorder	98.2%	94.7%	97.6%	96.2%	93.0%	95.0%	93.0%	94.7%	52.4%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
I1E	Cardiac dysrhythmias	97.8%	96.7%	97.6%	96.2%	94.9%	93.8%	95.4%	95.6%	52.4%
I1EE	Depression	95.1%	93.4%	93.7%	93.2%	89.3%	92.7%	92.9%	92.3%	18.2%
I1F	Congestive heart failure	97.3%	96.2%	96.0%	95.4%	95.4%	95.8%	92.3%	95.5%	35.9%
I1FF	Manic depressive (bipolar disease)	99.8%	99.0%	99.4%	99.5%	99.2%	99.2%	96.4%	99.3%	18.2%
I1G	Deep vein thrombosis	99.3%	98.7%	99.2%	99.4%	98.9%	98.8%	98.4%	98.8%	52.4%
I1GG	Schizophrenia	99.8%	100.0%	99.6%	99.6%	99.1%	99.4%	96.6%	99.1%	35.9%
I1H	Hypertension	92.1%	94.7%	91.1%	91.2%	92.6%	89.6%	84.7%	90.1%	52.4%
I1HH	Asthma	99.1%	99.3%	100.0%	100.0%	98.7%	98.7%	98.0%	98.9%	35.9%
I1I	Hypotension	99.6%	98.7%	98.4%	98.7%	98.9%	97.8%	97.6%	98.4%	52.4%
I1II	Emphysema/COPD	97.8%	96.9%	98.2%	98.3%	97.3%	96.4%	95.3%	97.1%	35.9%
I1J	Peripheral vascular disease	97.5%	97.9%	95.1%	95.0%	95.7%	97.0%	91.9%	95.8%	35.9%
I1JJ	Cataracts	99.6%	94.7%	95.9%	95.6%	97.7%	95.5%	91.8%	95.7%	52.4%
I1K	Other cardiovascular disease	97.1%	94.0%	92.7%	93.7%	91.0%	92.3%	90.3%	92.4%	52.4%
I1KK	Diabetic retinopathy	100.0%	99.3%	100.0%	98.7%	99.4%	99.5%	99.2%	99.4%	52.4%
I1L	Arthritis	94.6%	92.7%	93.5%	93.1%	92.4%	93.6%	86.9%	91.7%	52.4%
I1LL	Glaucoma	100.0%	99.3%	99.2%	97.5%	98.7%	98.3%	98.6%	98.7%	52.4%
I1M	Hip fracture	98.0%	97.8%	97.3%	97.4%	98.1%	97.6%	100.0%	97.8%	18.2%
I1MM	Macular degeneration	98.6%	100.0%	99.2%	98.7%	97.9%	98.5%	97.8%	98.4%	52.4%
I1N	Missing limb	100.0%	100.0%	99.2%	98.7%	99.6%	99.3%	99.0%	99.4%	52.4%
I1NN	Allergies	95.3%	94.0%	91.9%	93.7%	91.0%	89.9%	90.3%	91.7%	52.4%
I1O	Osteoporosis	97.8%	94.0%	96.7%	93.7%	95.6%	94.8%	91.8%	94.7%	52.4%
I1OO	Anemia	96.8%	94.0%	96.7%	90.6%	91.8%	91.6%	88.9%	92.1%	52.4%
I1P	Pathological bone fracture	99.6%	100.0%	99.2%	97.5%	99.2%	98.8%	99.4%	99.2%	52.4%
I1PP	Cancer	97.8%	98.7%	96.7%	96.9%	94.7%	97.5%	96.4%	96.6%	52.4%
I1Q	Alzheimer's disease	98.9%	96.0%	99.2%	96.9%	98.3%	94.8%	95.0%	96.7%	52.5%
I1QQ	Renal failure	98.9%	98.0%	95.9%	98.7%	97.1%	96.5%	96.8%	97.3%	52.4%
I1R	Aphasia	99.7%	98.8%	99.4%	98.7%	97.0%	98.6%	100.0%	98.4%	18.2%
I1RR	Diseases: None of Above	94.0%	87.9%	83.4%	87.0%	87.6%	86.0%	90.6%	87.7%	32.7%
I1S	Cerebral palsy	100.0%	99.0%	99.7%	100.0%	99.6%	99.7%	100.0%	99.7%	18.2%
I1T	Cerebrovascular accident (stroke)	96.9%	98.3%	97.9%	97.9%	96.0%	96.4%	89.3%	96.8%	18.2%
I1U	Dementia other than Alzheimer's	94.6%	94.0%	94.3%	94.3%	93.0%	90.6%	85.7%	91.3%	52.4%
I1V	Hemiplegia/hemiparesis	99.1%	98.8%	98.5%	97.4%	98.4%	98.2%	96.4%	98.4%	18.2%
I1W	Multiple sclerosis	99.8%	99.8%	99.7%	100.0%	99.9%	100.0%	100.0%	99.9%	18.2%
I1X	Paraplegia	100.0%	99.7%	100.0%	99.6%	99.9%	100.0%	99.8%	99.9%	35.9%
I1Y	Parkinson's disease	99.6%	98.7%	100.0%	100.0%	98.9%	98.8%	97.2%	98.7%	52.4%
I1Z	Quadriplegia	99.4%	100.0%	100.0%	99.2%	99.6%	99.2%	100.0%	99.5%	18.2%
I2A	Antibiotic resistant infection	98.1%	98.8%	97.6%	97.7%	98.0%	97.8%	96.4%	98.0%	18.2%
I2B	Clostridium difficile (c. diff.)	99.5%	99.0%	97.9%	98.4%	98.9%	99.5%	100.0%	99.0%	18.2%
I2C	Conjunctivitis	99.8%	99.0%	98.5%	99.0%	99.0%	99.4%	100.0%	99.2%	18.2%
I2D	HIV infection	100.0%	100.0%	99.5%	100.0%	100.0%	99.8%	100.0%	99.9%	46.3%
I2E	Pneumonia	96.9%	96.4%	97.0%	93.8%	95.3%	96.7%	92.9%	96.0%	18.2%
I2F	Respiratory infection	97.8%	97.3%	98.2%	95.3%	94.5%	95.0%	89.3%	95.9%	18.2%
I2G	Septicemia	99.7%	98.8%	99.7%	99.2%	99.1%	99.0%	100.0%	99.2%	18.2%
I2H	Sexually transmitted diseases	100.0%	100.0%	100.0%	98.8%	99.2%	99.4%	100.0%	99.5%	45.1%
I2I	Tuberculosis	99.8%	100.0%	100.0%	100.0%	100.0%	99.7%	100.0%	99.9%	18.2%
I2J	Urinary tract infection in last 30 days	94.1%	90.8%	87.4%	85.5%	87.1%	84.8%	82.1%	88.1%	17.8%
I2K	Viral hepatitis	100.0%	99.5%	100.0%	98.7%	99.2%	99.7%	100.0%	99.5%	18.2%
I2L	Wound infection	98.7%	97.8%	97.3%	96.4%	97.8%	97.8%	96.4%	97.7%	18.2%
I2M	Infections: None of Above	86.2%	80.8%	74.9%	69.4%	71.1%	71.6%	55.0%	75.0%	42.5%
I3A	Other diagnosis a	66.3%	64.5%	56.6%	59.1%	58.8%	59.6%	23.5%	60.8%	44.1%
I3B	Other diagnosis b	63.0%	55.0%	55.1%	55.2%	54.1%	57.3%	25.0%	56.8%	56.4%
I3C	Other diagnosis c	76.4%	52.4%	63.3%	66.2%	58.0%	60.7%	12.5%	62.6%	85.3%
I3D	Other diagnosis d	78.6%	61.9%	73.5%	67.9%	63.4%	67.4%	12.5%	67.8%	90.1%
I3E	Other diagnosis e	77.0%	75.0%	75.0%	65.6%	64.7%	64.0%	0.0%	68.1%	94.2%
J1A	Weight fluctuation 3+ lbs in 7 days	95.3%	95.4%	96.1%	98.4%	95.8%	96.9%	100.0%	96.2%	18.2%
J1B	Inability to lie flat--shortness of breath	96.5%	98.8%	96.7%	96.6%	98.1%	97.7%	96.4%	97.5%	18.2%
J1C	Dehydrated--output exceeds input	100.0%	99.8%	100.0%	100.0%	99.6%	100.0%	100.0%	99.9%	17.8%
J1D	Insufficient fluid in last 3 days	97.6%	97.8%	97.0%	96.6%	96.5%	97.0%	100.0%	97.0%	18.2%
J1E	Delusions	99.8%	97.3%	98.8%	97.4%	97.8%	98.3%	100.0%	98.3%	18.2%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
J1F	Dizziness/vertigo	99.3%	100.0%	99.2%	99.4%	97.0%	98.8%	99.0%	98.6%	52.4%
J1G	Edema	89.0%	86.9%	85.6%	83.3%	85.2%	86.7%	64.3%	86.1%	18.2%
J1H	Fever	97.8%	96.8%	97.0%	95.8%	97.2%	96.9%	100.0%	97.1%	18.2%
J1I	Hallucinations	99.5%	98.1%	99.1%	99.2%	99.0%	99.6%	100.0%	99.2%	17.8%
J1J	Internal bleeding	99.1%	99.8%	97.0%	99.0%	98.8%	99.5%	100.0%	99.0%	18.2%
J1K	Recurrent lung aspirations in last 90 days	99.7%	99.3%	99.1%	99.5%	98.9%	99.9%	100.0%	99.4%	18.2%
J1L	Shortness of breath	93.9%	95.4%	94.3%	92.2%	94.6%	92.7%	78.6%	93.8%	18.2%
J1M	Syncope (fainting)	100.0%	99.3%	99.2%	100.0%	100.0%	99.8%	99.0%	99.6%	52.4%
J1N	Unsteady gait	91.4%	87.4%	85.6%	88.0%	87.6%	86.1%	71.4%	87.6%	18.2%
J1O	Vomiting	98.1%	97.1%	95.5%	96.9%	96.9%	95.5%	92.9%	96.7%	18.2%
J1P	Problem conditions: None of Above	91.5%	87.3%	81.4%	78.8%	80.2%	80.8%	76.0%	81.4%	47.4%
J2A	Pain: Frequency	83.6%	78.3%	75.0%	74.2%	74.4%	74.2%	71.4%	76.4%	18.8%
J2B	Pain: Intensity	88.2%	72.4%	77.0%	78.5%	77.7%	77.9%	77.8%	80.1%	75.2%
J3C	Chest pain during usual activities	99.3%	97.4%	97.3%	97.7%	96.5%	99.1%	99.3%	98.3%	85.4%
J3D	Headache	96.0%	89.5%	91.9%	97.7%	91.6%	84.3%	91.4%	91.6%	85.4%
J4A	Fell in past 30 days	91.8%	88.9%	81.4%	80.8%	82.4%	84.3%	82.1%	84.9%	17.8%
J4B	Fell in past 31-180 days	91.5%	86.7%	84.7%	82.6%	82.4%	80.7%	71.4%	84.2%	17.8%
J4C	Hip fracture in last 180 days	98.1%	98.5%	97.3%	98.4%	98.4%	98.7%	100.0%	98.4%	17.8%
J4D	Other fracture in last 180 days	96.4%	98.3%	97.3%	95.8%	97.8%	97.2%	96.4%	97.2%	17.8%
J4E	Accidents: None of Above	91.8%	88.6%	91.0%	85.5%	83.7%	80.8%	75.0%	85.8%	17.8%
J5A	Conditions/diseases lead to instability	91.3%	87.7%	87.1%	82.6%	83.9%	86.5%	67.9%	86.2%	17.8%
J5B	Resident experiencing acute episode/flare-up	92.6%	89.3%	88.3%	87.0%	88.2%	86.8%	78.6%	88.6%	17.8%
J5C	End-stage disease, 6 or fewer months to live	99.2%	99.3%	98.8%	99.2%	97.8%	98.1%	96.4%	98.5%	17.8%
J5D	Stability of conditions: None of Above	92.4%	85.7%	84.4%	79.2%	82.4%	81.4%	71.4%	84.1%	17.8%
K1A	Chewing problem	93.9%	93.0%	91.0%	93.0%	91.5%	92.8%	75.0%	92.3%	18.2%
K1B	Swallowing problem	96.5%	93.0%	93.7%	91.7%	92.6%	94.9%	82.1%	93.7%	18.2%
K1C	Mouth pain	100.0%	99.3%	99.2%	99.4%	99.4%	99.3%	100.0%	99.6%	52.4%
K1D	Oral problems: None of Above	93.4%	90.5%	91.9%	88.6%	90.1%	92.3%	82.1%	90.8%	32.7%
K2A	Height (inches)	97.1%	95.9%	95.5%	96.3%	95.7%	95.7%	89.3%	95.9%	19.1%
K2B	Weight (pounds)	61.5%	40.9%	26.4%	20.8%	11.1%	10.3%	7.1%	25.4%	19.5%
K3A	Weight loss	94.0%	92.1%	90.1%	85.8%	90.7%	88.9%	85.7%	90.4%	20.3%
K3B	Weight gain	95.3%	90.8%	92.8%	88.9%	90.3%	90.9%	96.4%	91.5%	20.4%
K5A	Parenteral IV	94.2%	97.6%	97.3%	95.8%	97.1%	98.5%	88.9%	96.8%	18.3%
K5B	Feeding tube	99.1%	99.3%	98.8%	99.5%	99.1%	98.5%	100.0%	99.0%	17.8%
K5C	Mechanically altered diet	94.3%	90.1%	91.1%	88.7%	87.6%	87.1%	83.9%	88.0%	52.4%
K5E	Therapeutic diet	91.0%	89.4%	86.2%	92.5%	80.8%	85.4%	79.3%	84.4%	52.5%
K6A	Total calories (%) received in last 7 days	96.4%	89.2%	80.0%	80.6%	89.8%	89.6%	60.0%	88.6%	92.6%
K6B	Average fluid intake (daily) in last 7 days	89.3%	75.7%	60.0%	77.8%	75.0%	75.8%	60.0%	76.6%	92.6%
M1A	Ulcers: Stage 1	96.7%	96.6%	97.6%	95.3%	96.3%	95.7%	100.0%	96.3%	18.4%
M1B	Ulcers: Stage 2	94.8%	95.4%	91.0%	91.1%	93.1%	91.0%	82.1%	92.7%	18.2%
M1C	Ulcers: Stage 3	99.2%	99.0%	99.1%	98.2%	98.5%	97.0%	100.0%	98.4%	18.3%
M1D	Ulcers: Stage 4	97.8%	97.8%	97.3%	97.7%	98.5%	97.9%	89.3%	97.9%	18.3%
M2A	Pressure ulcer highest stage	95.0%	93.2%	91.3%	91.6%	92.2%	90.6%	89.3%	92.3%	18.3%
M2B	Stasis ulcer highest stage	99.1%	99.0%	97.6%	97.9%	98.3%	97.7%	96.4%	98.3%	18.4%
M3	History of resolved ulcers	95.2%	94.4%	94.4%	89.5%	88.7%	90.1%	89.6%	91.4%	38.6%
M4B	Burns (second or third degree)	99.2%	99.8%	100.0%	100.0%	100.0%	99.9%	100.0%	99.8%	18.2%
M4C	Open lesions other than ulcers, rashes, cuts	98.4%	96.4%	96.4%	97.4%	96.2%	97.3%	96.4%	97.0%	18.2%
M4E	Skin desensitized to pain or pressure	96.2%	94.2%	95.2%	94.5%	93.6%	95.0%	92.9%	94.6%	18.2%
M4G	Surgical wounds	96.5%	94.9%	93.1%	93.2%	95.8%	96.7%	96.4%	95.5%	18.2%
M5A	Pressure relieving device(s) for chair	94.2%	92.2%	88.9%	90.4%	92.5%	91.6%	89.3%	92.0%	18.2%
M5B	Pressure relieving device(s) for bed	93.6%	94.4%	91.9%	89.6%	93.4%	92.4%	89.3%	92.8%	18.2%
M5C	Turning/repositioning program	92.8%	90.0%	91.9%	89.6%	90.1%	89.6%	92.9%	90.6%	18.2%
M5D	Nutrition/hydration intervention	94.2%	92.7%	89.2%	88.5%	90.2%	89.7%	92.9%	90.8%	18.2%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
M5E	Ulcer care	95.6%	96.1%	93.1%	93.0%	93.8%	92.3%	92.9%	93.9%	18.2%
M5F	Surgical wound care	96.4%	96.1%	94.6%	94.0%	96.2%	97.8%	89.3%	96.1%	18.2%
M5G	Application of dressings	92.9%	88.8%	84.4%	85.1%	87.4%	87.8%	89.3%	88.1%	18.2%
M5H	Application of ointments/medications	86.8%	83.7%	78.7%	82.6%	80.4%	78.1%	78.6%	81.5%	18.2%
M5I	Other preventative/protective skin care	89.5%	88.6%	82.3%	87.0%	85.7%	86.2%	85.7%	86.6%	18.2%
M5J	Skin treatments: None of Above	97.0%	96.6%	92.8%	94.8%	94.5%	95.4%	100.0%	95.3%	18.2%
M6B	Infection of foot--e.g., cellulitis, etc.	98.9%	98.1%	98.5%	97.4%	98.7%	98.6%	96.4%	98.5%	18.2%
M6C	Open lesions on foot	98.4%	97.1%	96.7%	98.2%	98.4%	97.6%	92.9%	97.9%	18.2%
M6F	Application of dressings	96.5%	94.2%	95.5%	93.8%	95.8%	94.5%	96.4%	95.2%	18.2%
N1A	Awake in morning	94.6%	94.7%	91.0%	92.5%	92.7%	90.9%	100.0%	92.7%	17.9%
N1B	Awake in afternoon	94.4%	91.3%	91.3%	92.2%	93.1%	90.5%	100.0%	92.4%	17.9%
N1C	Awake in evening	91.2%	92.0%	87.4%	89.6%	88.2%	85.7%	89.3%	88.7%	17.9%
N1D	Awake: None of Above	98.0%	97.6%	96.1%	96.6%	96.6%	95.8%	100.0%	96.8%	17.8%
N2	Average Time Involved in Activities	95.9%	91.7%	92.4%	92.1%	91.1%	92.2%	89.3%	92.4%	19.1%
O2	New Medications	90.2%	79.3%	69.4%	65.4%	65.0%	65.0%	62.9%	69.2%	54.2%
O3	Injections (number days)	78.5%	80.2%	81.1%	82.5%	82.2%	81.7%	59.3%	81.0%	20.8%
O4A	Antipsychotic	95.6%	92.9%	93.6%	93.5%	93.7%	92.5%	96.2%	93.7%	18.7%
O4B	Antianxiety	90.9%	90.5%	90.0%	91.6%	91.0%	90.8%	80.8%	90.8%	18.6%
O4C	Antidepressants	90.3%	88.5%	86.6%	89.0%	87.8%	87.8%	84.6%	88.3%	18.6%
O4D	Hypnotic	94.1%	95.1%	95.7%	95.3%	95.6%	93.1%	76.9%	94.6%	18.8%
O4E	Diuretic	86.4%	91.0%	89.3%	87.7%	89.5%	90.4%	66.7%	88.9%	18.7%
P1AA	Chemotherapy	100.0%	99.8%	99.4%	99.7%	99.8%	99.5%	100.0%	99.7%	18.2%
P1AB	Dialysis	99.4%	100.0%	99.4%	100.0%	99.7%	99.9%	96.4%	99.7%	18.2%
P1AC	IV medication	91.8%	91.0%	89.8%	89.6%	92.7%	93.4%	64.3%	91.7%	18.2%
P1AE	Monitoring acute medical condition	87.4%	85.4%	81.4%	80.5%	83.2%	85.1%	64.3%	84.0%	18.2%
P1AG	Oxygen therapy	92.9%	92.2%	94.6%	91.1%	91.9%	93.2%	71.4%	92.4%	18.2%
P1AH	Radiation	99.5%	99.8%	99.7%	99.7%	99.7%	99.5%	96.4%	99.6%	18.2%
P1AI	Suctioning	99.7%	99.5%	99.1%	99.0%	99.7%	98.7%	92.9%	99.3%	18.2%
P1AJ	Tracheostomy care	99.5%	100.0%	99.7%	99.7%	99.8%	99.5%	100.0%	99.7%	18.2%
P1AK	Transfusions	98.3%	98.3%	97.6%	99.0%	98.4%	99.0%	89.3%	98.4%	18.2%
P1AL	Ventilator or respirator	99.2%	99.5%	99.4%	99.5%	99.5%	99.0%	96.4%	99.3%	18.2%
P1AO	Hospice care	99.4%	99.5%	99.4%	100.0%	98.7%	98.8%	100.0%	99.2%	18.2%
P1AP	Pediatric unit	100.0%	100.0%	100.0%	100.0%	100.0%	99.7%	100.0%	99.9%	18.2%
P1AQ	Respite care	100.0%	99.8%	100.0%	99.7%	99.9%	99.7%	100.0%	99.9%	18.2%
P1AR	Training in community skills	93.2%	93.4%	93.7%	92.4%	96.6%	96.5%	85.7%	94.9%	18.2%
P1BAA	Speech therapy: # days	87.8%	90.3%	94.5%	93.1%	95.8%	95.5%	89.3%	93.3%	20.0%
P1BAB	Speech therapy: total # minutes	85.9%	87.6%	94.2%	92.4%	95.7%	95.3%	88.9%	92.5%	21.8%
P1BBA	Occupational therapy: # days	68.6%	82.0%	83.6%	82.5%	90.6%	90.1%	67.9%	84.1%	20.0%
P1BBB	Occupational therapy: total # minutes	56.2%	71.6%	75.6%	78.2%	89.1%	89.1%	66.7%	78.9%	21.6%
P1BCA	Physical therapy: # days	67.8%	80.3%	81.2%	83.2%	87.1%	86.6%	71.4%	81.8%	20.0%
P1BCB	Physical therapy: total # minutes	53.4%	66.6%	70.5%	76.2%	85.7%	86.0%	66.7%	75.5%	21.6%
P1BDA	Respiratory therapy: # days	96.9%	97.7%	97.2%	97.1%	98.2%	96.8%	96.4%	97.4%	20.5%
P1BDB	Respiratory therapy: total # minutes	96.4%	96.4%	93.6%	95.3%	95.1%	94.9%	96.2%	95.3%	22.4%
P1BEA	Psychotherapy: # days	98.4%	98.5%	98.5%	98.1%	98.2%	97.7%	100.0%	98.2%	20.5%
P1BEB	Psychotherapy: total # minutes	98.3%	98.2%	98.1%	97.8%	97.9%	97.6%	100.0%	98.0%	22.3%
P3A	Nursing rehab: Range of motion (passive)	97.0%	94.4%	92.1%	88.5%	88.6%	88.7%	100.0%	91.1%	19.1%
P3B	Nursing rehab: Range of motion (active)	93.5%	88.3%	88.8%	80.3%	80.9%	83.2%	96.4%	85.2%	19.1%
P3C	Nursing rehab: Splint or brace assistance	99.0%	98.5%	98.5%	95.8%	96.8%	96.9%	100.0%	97.5%	19.3%
P3D	Nursing rehab: Bed mobility	99.0%	98.8%	99.1%	97.9%	98.4%	97.9%	100.0%	98.5%	19.2%
P3E	Nursing rehab: Transfer	97.5%	96.8%	98.2%	94.2%	95.4%	94.4%	100.0%	95.9%	19.2%
P3F	Nursing rehab: Walking	96.8%	92.4%	88.8%	85.5%	83.7%	83.3%	92.9%	87.6%	19.1%
P3G	Nursing rehab: Dressing or	98.3%	98.0%	96.4%	96.6%	95.6%	96.2%	96.4%	96.6%	19.2%

<b>MDS Item</b>	<b>Description</b>	<b>0-7 Gap Days</b>	<b>8-14 Gap Days</b>	<b>15-21 Gap Days</b>	<b>22-30 Gap Days</b>	<b>31-60 Gap Days</b>	<b>61-90 Gap Days</b>	<b>91+ Gap Days</b>	<b>Total</b>	<b>Missing</b>
	grooming									
P3H	Nursing rehab: Eating or swallowing	98.4%	98.3%	97.6%	97.4%	96.7%	97.4%	100.0%	97.5%	19.2%
P3I	Nursing rehab: Amputation/prosthesis care	100.0%	99.8%	100.0%	99.7%	100.0%	100.0%	100.0%	99.9%	19.2%
P3J	Nursing rehab: Communication	99.5%	99.5%	99.7%	99.5%	99.5%	99.0%	100.0%	99.4%	19.2%
P3K	Nursing rehab: Other	98.9%	97.5%	97.2%	96.6%	96.0%	96.4%	100.0%	96.9%	20.0%
P5	Hospital Stays	88.8%	89.8%	88.4%	79.1%	77.5%	77.9%	79.0%	81.0%	53.6%
P6	Emergency Room (ER) Visits	94.2%	93.2%	95.9%	98.1%	90.9%	89.9%	88.9%	91.7%	53.6%
P7	Physician Visits	63.8%	46.9%	47.7%	51.2%	47.3%	51.5%	53.6%	51.5%	19.0%
P8	Physician Orders	53.1%	37.4%	33.2%	33.6%	33.3%	33.2%	39.3%	37.2%	19.1%
Q2	Overall Change in Care Needs	77.4%	81.8%	83.0%	80.5%	83.5%	81.9%	60.7%	81.4%	18.8%
T1AA	Recreation therapy: # of days	100.0%	100.0%	100.0%	100.0%	99.7%	100.0%	100.0%	99.9%	76.7%
T1AB	Recreation therapy: Total # minutes	100.0%	100.0%	100.0%	100.0%	99.7%	100.0%	100.0%	99.9%	76.7%
T1B	Ordered Therapies	100.0%	--	0.0%	--	100.0%	--	--	50.0%	99.9%
T1C	Ordered therapy: Estimated days until day 15	100.0%	--	--	--	--	--	--	100.0%	100.0%
T1D	Ordered therapy: Estimated minutes until day 15	100.0%	--	--	--	--	--	--	100.0%	100.0%
<b>Total</b>		<b>94.3%</b>	<b>92.7%</b>	<b>91.1%</b>	<b>91.1%</b>	<b>91.5%</b>	<b>91.6%</b>	<b>87.4%</b>	<b>91.8%</b>	<b>32.5%</b>
<b>Cum Gap</b>		<b>16.7%</b>	<b>27.2%</b>	<b>35.6%</b>	<b>45.4%</b>	<b>74.5%</b>	<b>95.1%</b>	<b>100.0%</b>		

**Table 11. Match Rates Between Near-RPT and STRIVE MDS Values**

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
AB10B	Down's syndrome	100.0%	100.0%	100.0%	100.0%	85.7%	100.0%	98.1%	97.7%	98.0%
AB10C	Autism	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.1%
AB10D	Epilepsy	88.9%	100.0%	66.7%	100.0%	100.0%	100.0%	96.3%	95.4%	98.1%
AB10E	Other organic condition related to MR/DD	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	83.3%	89.8%	98.0%
AB10F	MR/DD with no organic condition	88.9%	100.0%	66.7%	100.0%	83.3%	66.7%	68.5%	75.9%	98.1%
AB2	Admitted from (at Entry)	95.2%	93.2%	93.4%	96.8%	94.1%	95.6%	88.8%	92.1%	37.9%
AB5D	MH/psychiatric setting	99.6%	98.7%	99.5%	98.8%	98.9%	99.4%	97.9%	98.7%	20.9%
AB5E	MR/DD setting	99.6%	100.0%	99.0%	100.0%	100.0%	100.0%	99.3%	99.6%	20.9%
AB9	Mental Health History	97.5%	98.0%	95.7%	99.1%	97.2%	97.1%	95.1%	96.4%	36.0%
B1	Comatose	100.0%	99.9%	100.0%	99.7%	99.7%	100.0%	100.0%	99.9%	0.5%
B2A	Short-term memory OK	97.0%	96.0%	96.6%	96.3%	97.0%	94.7%	100.0%	96.7%	1.9%
B2B	Long-term memory OK	97.0%	96.6%	95.7%	95.0%	97.1%	94.7%	100.0%	96.4%	1.9%
B3A	Recall current season	96.1%	94.1%	94.9%	94.7%	94.4%	93.8%	92.5%	94.9%	0.6%
B3B	Recall location of own room	95.3%	95.9%	96.0%	95.0%	95.3%	97.9%	94.6%	95.4%	0.6%
B3C	Recall staff names/faces	95.3%	94.2%	94.5%	95.2%	94.6%	91.7%	93.5%	94.8%	0.7%
B3D	Recall that he/she in nursing home	96.5%	96.0%	95.1%	94.7%	95.4%	91.7%	88.2%	95.5%	0.7%
B3E	Recall: None of Above	96.9%	97.0%	96.0%	96.0%	96.3%	95.8%	94.6%	96.5%	0.7%
B4	Cognitive Skills/Daily Decision Making	92.8%	90.9%	90.6%	89.9%	91.2%	89.5%	100.0%	91.3%	0.9%
B5A	Easily distracted	96.7%	95.6%	95.7%	95.6%	94.3%	97.4%	100.0%	95.7%	1.3%
B5B	Periods of altered perception/awareness	97.0%	97.1%	96.1%	94.7%	95.9%	94.7%	100.0%	96.3%	0.8%
B5C	Episodes of disorganized speech	96.9%	95.6%	96.6%	95.1%	95.7%	97.4%	100.0%	96.1%	0.8%
B5D	Periods of restlessness	96.1%	95.6%	94.3%	92.3%	93.8%	97.4%	100.0%	94.7%	0.8%
B5E	Periods of lethargy	96.5%	95.5%	95.5%	94.8%	94.7%	94.7%	100.0%	95.5%	0.9%
B5F	Mental function varies during day	94.8%	93.9%	92.5%	92.0%	93.6%	89.5%	100.0%	93.6%	0.9%
B6	Change in Cognitive Status	94.0%	91.0%	85.5%	86.6%	88.5%	89.6%	91.5%	90.1%	4.1%
C1	Hearing	95.8%	94.9%	95.6%	96.1%	93.8%	89.6%	89.9%	93.2%	3.9%
C2A	Hearing aid present/used	98.7%	98.2%	97.4%	98.3%	98.4%	98.1%	97.8%	98.2%	1.3%
C2C	Other receptive comm. techniques used	99.7%	99.3%	99.4%	98.9%	99.3%	99.8%	99.3%	99.4%	1.3%
C3A	Speech	96.9%	96.6%	96.8%	96.4%	95.9%	93.9%	94.8%	95.8%	1.3%
C3B	Writing messages	99.4%	99.1%	98.9%	98.9%	98.7%	98.6%	99.3%	99.1%	1.3%
C3C	Amer. sign language/Braille	100.0%	99.8%	99.7%	99.6%	99.8%	100.0%	99.9%	99.8%	1.3%
C3D	Signs/gestures/sounds	95.4%	96.1%	96.8%	95.1%	94.9%	94.2%	93.5%	94.8%	1.3%
C3E	Communication board	99.9%	99.1%	99.7%	99.8%	99.7%	99.8%	99.7%	99.7%	1.3%
C3F	Other	100.0%	100.0%	99.4%	98.7%	99.7%	99.5%	99.0%	99.4%	1.4%
C3G	Modes of expression: None of Above	99.6%	98.6%	99.1%	98.7%	99.0%	98.4%	97.7%	98.6%	1.3%
C4	Making Self Understood	95.2%	93.0%	91.1%	91.4%	92.6%	97.3%	100.0%	93.1%	0.9%
C5	Speech Clarity	98.5%	98.2%	97.4%	94.8%	94.7%	91.1%	91.5%	94.7%	3.3%
C6	Ability to Understand Others	94.5%	91.5%	90.1%	89.6%	91.7%	89.5%	100.0%	92.0%	0.9%
D1	Vision	94.7%	94.8%	91.8%	92.3%	93.4%	86.5%	87.7%	91.8%	2.3%
D2A	Side vision problems	99.1%	99.1%	99.4%	98.7%	99.1%	98.1%	99.2%	99.0%	1.4%
D2B	Sees halos/rings/flashes/curtains	99.6%	99.8%	99.4%	100.0%	99.8%	99.8%	99.6%	99.7%	1.4%
D2C	Visual limitations: None of Above	96.6%	97.0%	98.0%	96.8%	95.9%	93.9%	95.0%	96.0%	1.4%
D3	Visual Appliances	96.8%	96.8%	95.1%	97.0%	94.5%	92.3%	93.6%	94.9%	3.9%
E1A	Negative statements	97.2%	96.2%	96.6%	96.4%	95.4%	100.0%	100.0%	96.4%	0.9%
E1B	Repetitive questions	96.8%	96.2%	97.2%	96.9%	95.7%	94.7%	100.0%	96.5%	0.8%
E1C	Repetitive verbalizations	97.6%	96.0%	95.0%	95.2%	95.1%	100.0%	100.0%	96.1%	0.9%
E1D	Persistent anger with self/others	94.2%	93.3%	91.6%	90.7%	92.1%	94.7%	100.0%	92.7%	0.9%
E1E	Self deprecation	98.6%	98.4%	98.6%	97.8%	98.5%	100.0%	100.0%	98.4%	0.9%
E1F	Expression of unrealistic fears	98.2%	97.0%	96.4%	97.3%	96.7%	94.7%	100.0%	97.3%	0.9%
E1G	Recurrent statements of terrible future	98.8%	98.9%	98.8%	98.8%	98.1%	100.0%	100.0%	98.7%	1.0%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
E1H	Repetitive health complaints	96.0%	93.8%	94.8%	94.3%	93.9%	92.1%	100.0%	94.7%	0.9%
E1I	Repetitive anxious complaints/concerns	96.1%	94.3%	91.6%	91.8%	91.9%	89.5%	100.0%	93.6%	0.9%
E1J	Unpleasant mood in morning	98.1%	96.8%	95.6%	96.1%	96.2%	97.4%	100.0%	96.8%	0.8%
E1K	Insomnia/change in sleeping pattern	96.0%	94.3%	95.6%	94.7%	93.4%	100.0%	100.0%	94.9%	0.9%
E1L	Sad/pained/worried facial expressions	91.3%	89.3%	88.4%	86.8%	87.6%	84.2%	100.0%	89.0%	0.9%
E1M	Crying/tearfulness	97.3%	96.2%	94.8%	93.9%	94.3%	94.7%	100.0%	95.6%	1.0%
E1N	Repetitive physical movements	95.7%	95.1%	92.7%	92.5%	93.0%	89.5%	100.0%	94.0%	0.9%
E1O	Withdrawal from activities of interest	97.5%	95.8%	95.4%	96.5%	96.6%	94.7%	100.0%	96.6%	0.9%
E1P	Reduced social interaction	96.8%	96.7%	96.1%	94.7%	94.7%	94.7%	100.0%	95.9%	0.9%
E2	Mood Persistence	87.7%	82.8%	82.2%	82.1%	82.9%	75.0%	100.0%	84.1%	2.0%
E4AA	Wandering: Frequency	96.9%	96.3%	95.5%	96.0%	96.4%	100.0%	100.0%	96.4%	1.0%
E4AB	Wandering: Alterability	98.8%	98.5%	97.9%	98.3%	98.6%	100.0%	100.0%	98.5%	1.1%
E4BA	Verbal abuse: Frequency	96.2%	94.5%	92.2%	92.9%	94.1%	89.5%	100.0%	94.3%	0.9%
E4BB	Verbal abuse: Alterability	98.1%	97.0%	96.1%	96.2%	96.8%	92.1%	100.0%	97.0%	0.9%
E4CA	Physical abuse: Frequency	97.9%	96.6%	96.3%	95.6%	94.6%	97.4%	100.0%	96.4%	0.9%
E4CB	Physical abuse: Alterability	99.0%	97.9%	98.6%	97.3%	97.1%	97.4%	100.0%	98.0%	0.9%
E4DA	Socially inappropriate: Frequency	96.1%	92.5%	94.3%	91.3%	91.9%	94.7%	100.0%	93.5%	0.9%
E4DB	Socially inappropriate: Alterability	98.2%	96.2%	96.3%	94.5%	95.9%	94.7%	100.0%	96.5%	0.9%
E4EA	Resist care: Frequency	92.6%	89.6%	90.4%	87.8%	87.7%	94.7%	100.0%	90.0%	1.0%
E4EB	Resist care: Alterability	94.8%	92.6%	94.3%	92.7%	91.7%	100.0%	100.0%	93.4%	1.1%
E5	Change in Behavioral Symptoms	93.7%	89.9%	87.1%	86.3%	88.2%	90.7%	92.5%	90.3%	6.4%
F1A	At ease interacting with others	92.7%	93.8%	89.9%	91.1%	90.4%	86.0%	87.8%	90.0%	1.3%
F1B	At ease doing planned/structured activities	90.9%	90.9%	88.5%	89.4%	87.4%	83.4%	84.9%	87.5%	1.4%
F1C	At ease doing self-initiated activities	92.1%	89.1%	89.4%	88.8%	88.2%	86.0%	85.3%	88.0%	1.3%
F1D	Establishes own goals	94.2%	93.4%	93.7%	91.9%	92.9%	92.5%	92.6%	93.0%	1.3%
F1E	Pursues involvement in life of facility	96.6%	91.1%	91.7%	93.2%	93.6%	91.1%	90.7%	92.6%	1.3%
F1F	Accepts invitations to most group activities	96.4%	95.2%	94.0%	93.4%	91.6%	89.7%	89.9%	92.4%	1.3%
F1G	Initiative/involvement: None of Above	97.2%	96.6%	94.3%	96.2%	96.2%	90.7%	92.6%	94.7%	1.3%
F2A	Covert/open conflict with staff	98.7%	97.9%	98.3%	97.2%	97.8%	95.8%	96.9%	97.5%	1.3%
F2B	Unhappy with roommate	99.0%	99.1%	98.6%	99.6%	98.7%	99.1%	98.1%	98.7%	1.3%
F2C	Unhappy with other residents	99.4%	99.3%	97.4%	99.6%	99.1%	98.8%	98.2%	98.8%	1.3%
F2D	Open conflict/anger with family/friends	98.8%	98.9%	98.3%	98.1%	98.2%	97.2%	98.2%	98.2%	1.3%
F2E	Absence of contact with family/friends	99.4%	97.9%	98.9%	98.7%	98.1%	98.1%	98.3%	98.4%	1.3%
F2F	Recent loss family/friend	99.0%	98.9%	98.3%	98.7%	98.4%	98.6%	98.6%	98.6%	1.3%
F2G	Does not easily adjust to routine change	96.6%	97.3%	94.5%	95.1%	95.2%	93.9%	94.0%	95.1%	1.4%
F2H	Unsettled relationships: None of Above	92.3%	93.6%	91.7%	91.9%	91.1%	87.6%	87.7%	90.4%	1.4%
G1AA	Bed mobility: Self-Performance	88.7%	83.3%	84.2%	85.4%	83.6%	84.2%	100.0%	85.5%	0.3%
G1AB	Bed mobility: Support Provided	90.3%	84.7%	86.1%	85.3%	86.4%	85.4%	91.3%	87.1%	0.4%
G1BA	Transfer: Self-Performance	89.3%	84.5%	84.6%	85.6%	84.3%	84.2%	100.0%	86.1%	0.3%
G1BB	Transfer: Support Provided	88.5%	85.0%	85.6%	85.8%	85.8%	82.9%	95.7%	86.5%	0.3%
G1CA	Walk in room: Self-Performance	89.9%	86.3%	88.5%	86.9%	86.1%	73.7%	100.0%	87.6%	0.3%
G1CB	Walk in room: Support Provided	91.1%	88.5%	90.0%	88.2%	87.4%	85.4%	95.7%	89.2%	0.3%
G1DA	Walk in corridor: Self-Performance	88.9%	83.6%	87.4%	84.3%	85.2%	76.3%	100.0%	86.1%	0.3%
G1DB	Walk in corridor: Support Provided	90.1%	86.9%	89.0%	85.5%	86.0%	80.5%	95.7%	87.7%	0.3%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
G1EA	Locomotion on unit: Self-Performance	86.7%	82.2%	83.3%	80.6%	83.1%	78.9%	100.0%	83.6%	0.3%
G1EB	Locomotion on unit: Support Provided	92.3%	88.9%	90.7%	87.2%	88.5%	92.7%	95.7%	89.9%	0.3%
G1FA	Locomotion off unit: Self-Performance	86.9%	82.5%	83.2%	81.5%	82.5%	84.2%	100.0%	83.8%	0.3%
G1FB	Locomotion off unit: Support Provided	92.2%	88.7%	89.3%	87.2%	87.8%	95.1%	95.7%	89.5%	0.4%
G1GA	Dressing: Self-Performance	90.0%	86.2%	83.7%	85.1%	86.2%	81.6%	100.0%	86.8%	0.2%
G1GB	Dressing: Support Provided	94.0%	91.8%	91.3%	90.8%	90.4%	82.9%	95.7%	91.9%	0.3%
G1HA	Eating: Self-Performance	88.3%	87.6%	82.8%	83.5%	83.8%	84.2%	100.0%	85.7%	0.3%
G1HB	Eating: Support Provided	92.5%	89.1%	87.7%	89.3%	89.7%	85.4%	95.7%	90.1%	0.4%
G1IA	Toilet: Self-Performance	89.6%	85.4%	85.7%	87.3%	85.0%	81.6%	100.0%	86.9%	0.3%
G1IB	Toilet: Support Provided	90.2%	87.8%	87.7%	88.0%	86.5%	85.4%	95.7%	88.3%	0.4%
G1JA	Personal hygiene: Self-Performance	87.6%	85.5%	82.8%	84.7%	84.6%	86.8%	100.0%	85.5%	0.2%
G1JB	Personal hygiene: Support Provided	93.3%	89.9%	91.6%	88.0%	90.4%	85.4%	91.3%	90.9%	0.3%
G3A	Balance while standing	91.3%	90.9%	89.7%	92.8%	88.1%	81.6%	82.6%	90.5%	1.1%
G3B	Balance while sitting	90.6%	89.6%	88.4%	88.8%	88.1%	97.4%	91.3%	89.4%	0.9%
G4AA	Neck: Range of motion	98.8%	98.3%	98.0%	98.3%	97.7%	100.0%	100.0%	98.3%	0.5%
G4AB	Neck: Voluntary movement	98.8%	98.3%	98.4%	98.2%	97.7%	100.0%	100.0%	98.3%	0.6%
G4BA	Arm: Range of motion	97.3%	95.4%	97.7%	96.6%	94.9%	97.4%	100.0%	96.4%	0.5%
G4BB	Arm: Voluntary movement	97.5%	96.2%	97.7%	95.7%	95.2%	97.4%	100.0%	96.5%	0.5%
G4CA	Hand: Range of motion	97.8%	96.7%	97.3%	97.0%	96.3%	94.7%	100.0%	97.1%	0.5%
G4CB	Hand: Voluntary movement	98.0%	97.0%	97.9%	96.8%	95.8%	97.4%	100.0%	97.1%	0.5%
G4DA	Leg: Range of motion	95.4%	94.1%	95.7%	95.0%	94.9%	92.1%	100.0%	95.0%	0.6%
G4DB	Leg: Voluntary movement	96.1%	93.9%	95.7%	95.6%	95.6%	94.7%	100.0%	95.5%	0.6%
G4EA	Foot: Range of motion	95.9%	95.8%	95.9%	95.9%	94.2%	89.5%	50.0%	95.4%	0.6%
G4EB	Foot: Voluntary movement	95.6%	95.3%	95.6%	96.1%	94.2%	94.7%	50.0%	95.3%	0.7%
G5D	Wheelchair for primary locomotion	92.0%	92.5%	89.4%	87.9%	89.1%	84.9%	83.8%	87.9%	0.8%
G6A	Bedfast all or most of the time	98.2%	97.6%	97.3%	97.3%	97.5%	94.7%	100.0%	97.7%	0.0%
G6B	Bed rails for bed mobility/transfer	93.2%	93.0%	95.0%	95.4%	92.1%	84.2%	100.0%	93.5%	0.0%
G7	Task Segmentation	92.9%	92.0%	94.3%	91.6%	91.1%	97.3%	100.0%	92.4%	5.0%
G8A	Resident--increased independence capability	94.2%	93.0%	92.6%	91.1%	91.8%	92.6%	90.4%	92.0%	0.7%
G8B	Staff--increased independence capability	93.5%	91.8%	91.7%	88.6%	89.4%	89.1%	88.5%	90.1%	0.7%
G8C	Resident slow performing tasks/activity	97.2%	96.4%	94.0%	96.4%	92.0%	94.9%	94.7%	94.8%	0.7%
G9	Change in ADL Function	81.7%	71.7%	67.1%	66.2%	67.2%	68.4%	69.9%	70.6%	5.7%
H1A	Bowel continence	89.8%	88.8%	85.8%	87.3%	85.8%	84.2%	100.0%	87.8%	0.6%
H1B	Bladder continence	90.7%	87.0%	87.5%	86.2%	84.1%	78.9%	100.0%	87.4%	0.8%
H2A	Bowel elimination pattern regular	92.2%	89.1%	86.6%	85.8%	84.5%	81.4%	77.1%	84.1%	0.7%
H2B	Constipation	96.5%	93.2%	92.6%	93.0%	92.9%	94.2%	93.4%	93.7%	0.7%
H2C	Diarrhea	95.8%	95.1%	95.9%	96.8%	97.2%	95.1%	100.0%	96.2%	0.1%
H2D	Fecal impaction	99.9%	99.9%	100.0%	99.7%	100.0%	100.0%	100.0%	99.9%	0.1%
H2E	Bowel elimination pattern: None of Above	90.4%	81.9%	84.2%	83.2%	83.1%	82.3%	76.7%	82.8%	0.6%
H3A	Any scheduled toileting plan	95.0%	93.8%	91.0%	92.6%	91.4%	97.4%	100.0%	93.1%	0.0%
H3B	Bladder retraining program	99.9%	99.7%	99.8%	99.6%	99.6%	100.0%	100.0%	99.8%	0.0%
H3H	Enemas/irrigation	99.6%	97.7%	99.1%	99.2%	99.0%	99.1%	99.0%	99.0%	0.7%
I1A	Diabetes mellitus	98.3%	98.3%	98.0%	97.3%	98.5%	100.0%	78.3%	98.1%	0.1%
I1AA	Seizure disorder	99.7%	99.8%	98.9%	98.1%	99.0%	96.0%	97.0%	98.2%	0.7%
I1B	Hyperthyroidism	99.6%	100.0%	99.7%	100.0%	99.7%	99.3%	99.5%	99.6%	0.7%
I1BB	Transient ischemic attack (TIA)	99.4%	99.3%	100.0%	98.7%	99.2%	98.1%	98.4%	98.9%	0.7%
I1C	Hypothyroidism	98.1%	98.9%	98.3%	98.1%	98.3%	95.6%	96.1%	97.5%	0.7%
I1CC	Traumatic brain injury	99.9%	99.3%	99.4%	99.8%	99.7%	98.4%	99.3%	99.4%	0.7%
I1D	Arteriosclerotic heart disease (ASHD)	97.9%	97.7%	97.1%	97.4%	97.8%	96.0%	96.0%	97.3%	0.1%
I1DD	Anxiety disorder	98.4%	97.7%	97.7%	98.3%	96.4%	93.7%	94.2%	96.3%	0.7%
I1E	Cardiac dysrhythmias	98.4%	97.7%	98.0%	96.4%	96.6%	95.1%	96.3%	96.8%	0.7%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
I1EE	Depression	95.9%	94.4%	95.2%	92.5%	92.2%	90.2%	69.6%	94.0%	0.1%
I1F	Congestive heart failure	98.0%	96.4%	97.4%	96.8%	96.5%	94.0%	95.4%	96.6%	0.1%
I1FF	Manic depressive (bipolar disease)	99.7%	99.3%	99.3%	99.1%	99.1%	100.0%	95.7%	99.3%	0.1%
I1G	Deep vein thrombosis	99.1%	99.1%	98.9%	98.9%	99.0%	97.9%	98.1%	98.7%	0.7%
I1GG	Schizophrenia	99.7%	100.0%	100.0%	99.1%	99.4%	99.0%	97.8%	99.2%	0.1%
I1H	Hypertension	94.2%	96.4%	93.4%	92.8%	93.2%	88.1%	88.3%	91.8%	0.7%
I1HH	Asthma	99.2%	99.4%	99.4%	99.6%	99.1%	99.7%	97.8%	99.0%	0.1%
I1I	Hypotension	99.1%	99.3%	99.1%	98.7%	99.0%	97.9%	98.8%	98.9%	0.7%
I1II	Emphysema/COPD	98.2%	96.8%	98.0%	98.5%	97.0%	97.0%	96.4%	97.4%	0.1%
I1J	Peripheral vascular disease	98.4%	98.3%	96.9%	96.8%	96.8%	96.7%	95.7%	97.2%	0.1%
I1JJ	Cataracts	99.0%	96.8%	97.4%	97.0%	98.1%	96.5%	96.1%	97.2%	0.7%
I1K	Other cardiovascular disease	96.5%	96.8%	94.3%	95.8%	92.9%	92.6%	93.4%	94.3%	0.7%
I1KK	Diabetic retinopathy	99.9%	99.3%	100.0%	99.6%	99.5%	99.8%	99.8%	99.7%	0.7%
I1L	Arthritis	96.5%	95.7%	96.0%	94.7%	95.2%	93.0%	92.9%	94.6%	0.7%
I1LL	Glaucoma	99.4%	99.3%	99.4%	98.5%	99.4%	98.1%	98.1%	98.8%	0.7%
I1M	Hip fracture	98.3%	97.4%	98.8%	98.3%	98.9%	95.1%	95.7%	98.3%	0.1%
I1MM	Macular degeneration	99.1%	99.5%	99.1%	98.9%	98.5%	98.8%	98.8%	98.9%	0.7%
I1N	Missing limb	100.0%	99.8%	99.7%	99.4%	99.8%	98.6%	99.3%	99.5%	0.7%
I1NN	Allergies	96.9%	94.3%	96.3%	95.1%	93.6%	91.6%	93.1%	94.2%	0.7%
I1O	Osteoporosis	98.4%	97.3%	98.0%	97.5%	97.2%	96.3%	95.5%	96.9%	0.7%
I1OO	Anemia	96.9%	95.5%	97.7%	94.1%	94.0%	91.9%	91.9%	94.1%	0.7%
I1P	Pathological bone fracture	99.6%	100.0%	99.4%	98.9%	99.5%	99.8%	99.6%	99.6%	0.7%
I1PP	Cancer	98.2%	99.1%	98.0%	98.1%	97.2%	97.7%	97.4%	97.8%	0.7%
I1Q	Alzheimer's disease	99.1%	98.2%	98.3%	97.7%	97.9%	94.7%	95.9%	97.3%	0.7%
I1QQ	Renal failure	99.1%	98.6%	98.0%	98.9%	98.0%	96.7%	97.7%	98.1%	0.7%
I1R	Aphasia	99.6%	98.7%	99.5%	98.7%	97.3%	97.6%	100.0%	98.8%	0.1%
I1RR	Diseases: None of Above	93.4%	90.0%	88.3%	88.9%	90.4%	93.5%	97.2%	90.9%	0.6%
I1S	Cerebral palsy	100.0%	99.5%	99.6%	99.6%	99.8%	100.0%	100.0%	99.8%	0.1%
I1T	Cerebrovascular accident (stroke)	97.5%	97.6%	97.5%	96.6%	97.2%	100.0%	78.3%	97.2%	0.1%
I1U	Dementia other than Alzheimer's	96.5%	95.7%	97.4%	96.0%	94.5%	89.3%	89.2%	93.3%	0.7%
I1V	Hemiplegia/hemiparesis	98.8%	98.8%	98.2%	98.1%	98.7%	100.0%	95.7%	98.6%	0.1%
I1W	Multiple sclerosis	99.9%	99.9%	99.8%	100.0%	100.0%	100.0%	100.0%	99.9%	0.1%
I1X	Paraplegia	100.0%	99.8%	100.0%	99.8%	99.9%	100.0%	99.7%	99.9%	0.1%
I1Y	Parkinson's disease	99.4%	99.3%	99.1%	99.6%	99.2%	99.3%	98.4%	99.1%	0.7%
I1Z	Quadriplegia	99.4%	100.0%	100.0%	99.4%	99.4%	100.0%	100.0%	99.6%	0.1%
I2A	Antibiotic resistant infection	98.6%	99.1%	99.3%	98.7%	99.0%	95.1%	100.0%	98.8%	0.0%
I2B	Clostridium difficile (c. diff.)	99.6%	99.3%	99.3%	99.9%	99.1%	100.0%	100.0%	99.4%	0.0%
I2C	Conjunctivitis	99.8%	99.1%	99.5%	99.2%	99.5%	100.0%	100.0%	99.5%	0.0%
I2D	HIV infection	100.0%	100.0%	99.7%	99.8%	100.0%	100.0%	100.0%	99.9%	36.2%
I2E	Pneumonia	97.0%	96.2%	97.7%	97.0%	97.7%	97.6%	100.0%	97.1%	0.0%
I2F	Respiratory infection	98.0%	97.6%	98.0%	97.3%	95.5%	97.6%	100.0%	97.3%	0.0%
I2G	Septicemia	99.1%	99.1%	99.8%	99.2%	99.1%	97.6%	100.0%	99.2%	0.0%
I2H	Sexually transmitted diseases	99.4%	100.0%	99.7%	99.4%	99.2%	100.0%	100.0%	99.5%	35.0%
I2I	Tuberculosis	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	0.0%
I2J	Urinary tract infection in last 30 days	93.3%	92.1%	91.3%	89.7%	90.7%	86.8%	100.0%	91.6%	0.0%
I2K	Viral hepatitis	99.9%	99.5%	100.0%	99.2%	99.1%	100.0%	100.0%	99.6%	0.0%
I2L	Wound infection	98.5%	97.9%	98.6%	97.7%	97.7%	97.6%	95.7%	98.1%	0.0%
I2M	Infections: None of Above	87.0%	81.2%	83.8%	79.3%	78.3%	81.5%	0.0%	82.4%	30.4%
I3A	Other diagnosis a	68.7%	67.7%	64.2%	66.1%	64.9%	65.4%	100.0%	66.8%	30.2%
I3B	Other diagnosis b	64.5%	63.4%	62.9%	62.8%	63.3%	68.2%	100.0%	63.7%	45.1%
I3C	Other diagnosis c	76.9%	70.9%	74.8%	74.8%	71.0%	90.0%	100.0%	74.3%	79.9%
I3D	Other diagnosis d	77.9%	72.8%	79.2%	80.6%	74.4%	100.0%	100.0%	77.3%	85.5%
I3E	Other diagnosis e	81.2%	87.7%	83.0%	77.8%	76.3%	100.0%	100.0%	81.2%	90.9%
J1A	Weight fluctuation 3+ lbs in 7 days	96.6%	96.0%	96.1%	98.5%	96.3%	100.0%	100.0%	96.7%	0.1%
J1B	Inability to lie flat--shortness of breath	97.2%	98.4%	97.3%	97.9%	98.2%	95.1%	100.0%	97.8%	0.1%
J1C	Dehydrated--output exceeds input	99.8%	99.9%	99.8%	100.0%	99.8%	100.0%	100.0%	99.8%	0.0%
J1D	Insufficient fluid in last 3 days	98.6%	98.3%	97.5%	97.8%	98.1%	90.2%	100.0%	98.1%	0.1%
J1E	Delusions	99.3%	98.5%	98.8%	97.9%	98.3%	97.6%	100.0%	98.7%	0.1%
J1F	Dizziness/vertigo	99.7%	100.0%	98.9%	98.3%	97.6%	98.8%	98.8%	98.8%	0.7%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
J1G	Edema	90.6%	90.1%	90.0%	88.7%	89.5%	92.7%	91.3%	89.9%	0.1%
J1H	Fever	98.1%	97.1%	97.9%	97.3%	98.0%	92.7%	100.0%	97.7%	0.1%
J1I	Hallucinations	99.4%	99.1%	99.5%	98.6%	99.2%	100.0%	100.0%	99.2%	0.0%
J1J	Internal bleeding	99.2%	100.0%	98.9%	99.5%	99.1%	100.0%	100.0%	99.3%	0.1%
J1K	Recurrent lung aspirations in last 90 days	99.6%	99.3%	99.8%	99.7%	99.3%	100.0%	100.0%	99.6%	0.1%
J1L	Shortness of breath	94.6%	93.9%	95.4%	94.8%	95.5%	90.2%	100.0%	94.8%	0.1%
J1M	Syncope (fainting)	99.9%	99.8%	99.7%	99.6%	99.7%	99.5%	99.2%	99.6%	0.7%
J1N	Unsteady gait	92.0%	89.3%	90.0%	91.1%	89.0%	92.7%	82.6%	90.5%	0.1%
J1O	Vomiting	97.4%	97.4%	97.0%	97.9%	97.0%	92.7%	100.0%	97.3%	0.1%
J1P	Problem conditions: None of Above	92.6%	87.7%	86.0%	85.4%	85.0%	82.6%	82.5%	85.9%	0.6%
J2A	Pain: Frequency	85.1%	80.9%	79.2%	79.3%	78.9%	64.9%	100.0%	81.1%	1.2%
J2B	Pain: Intensity	90.0%	80.0%	77.7%	79.5%	78.8%	77.8%	100.0%	83.9%	65.6%
J3C	Chest pain during usual activities	99.2%	99.4%	98.5%	98.8%	97.4%	97.3%	98.0%	98.4%	66.4%
J3D	Headache	96.8%	93.1%	96.3%	96.4%	96.2%	94.6%	93.9%	95.4%	66.4%
J4A	Fell in past 30 days	92.8%	89.4%	89.0%	84.6%	84.6%	86.8%	100.0%	88.5%	0.0%
J4B	Fell in past 31-180 days	91.8%	87.4%	89.4%	85.4%	85.5%	73.7%	100.0%	88.1%	0.0%
J4C	Hip fracture in last 180 days	98.4%	98.8%	98.4%	98.6%	98.8%	94.7%	100.0%	98.5%	0.0%
J4D	Other fracture in last 180 days	97.3%	98.2%	98.8%	96.7%	98.6%	100.0%	100.0%	97.8%	0.0%
J4E	Accidents: None of Above	92.8%	89.1%	91.2%	85.9%	85.8%	71.1%	100.0%	89.1%	0.0%
J5A	Conditions/diseases lead to instability	91.8%	88.0%	90.1%	86.3%	86.4%	84.2%	100.0%	88.8%	0.0%
J5B	Resident experiencing acute episode/flare-up	92.7%	88.8%	91.3%	88.4%	91.2%	84.2%	100.0%	90.7%	0.0%
J5C	End-stage disease, 6 or fewer months to live	99.5%	99.5%	97.7%	98.6%	98.4%	94.7%	100.0%	98.8%	0.0%
J5D	Stability of conditions: None of Above	91.9%	85.9%	87.8%	83.6%	84.1%	84.2%	100.0%	87.2%	0.0%
K1A	Chewing problem	95.2%	93.4%	93.9%	94.3%	93.1%	92.7%	95.7%	94.1%	0.1%
K1B	Swallowing problem	96.6%	94.4%	95.6%	93.7%	95.1%	92.7%	87.0%	95.2%	0.0%
K1C	Mouth pain	99.7%	99.5%	99.7%	98.9%	99.5%	99.1%	99.7%	99.5%	0.7%
K1D	Oral problems: None of Above	94.4%	91.9%	94.6%	91.8%	90.7%	87.1%	87.7%	92.0%	0.7%
K2A	Height (inches)	97.5%	96.5%	96.4%	96.9%	97.1%	95.1%	87.0%	96.9%	1.0%
K2B	Weight (pounds)	67.7%	46.5%	36.6%	29.9%	23.6%	22.5%	0.0%	43.5%	1.5%
K3A	Weight loss	93.9%	94.2%	93.1%	90.4%	91.3%	75.7%	100.0%	92.5%	3.0%
K3B	Weight gain	96.3%	93.4%	95.3%	93.4%	91.7%	91.9%	100.0%	94.2%	3.0%
K5A	Parenteral IV	96.4%	98.8%	98.8%	98.6%	98.4%	97.6%	100.0%	97.9%	0.1%
K5B	Feeding tube	99.0%	99.5%	98.8%	99.5%	99.5%	97.4%	100.0%	99.2%	0.0%
K5C	Mechanically altered diet	94.7%	91.8%	94.9%	92.4%	90.2%	87.6%	86.8%	90.5%	0.7%
K5E	Therapeutic diet	93.1%	90.2%	88.3%	90.7%	87.0%	84.6%	84.1%	87.7%	0.8%
K6A	Total calories (%) received in last 7 days	96.0%	89.6%	89.7%	91.7%	93.6%	83.3%	100.0%	93.0%	90.5%
K6B	Average fluid intake (daily) in last 7 days	88.0%	79.1%	76.9%	83.3%	83.0%	100.0%	100.0%	83.9%	90.5%
M1A	Ulcers: Stage 1	96.8%	96.8%	97.5%	96.5%	97.1%	94.6%	100.0%	96.9%	0.7%
M1B	Ulcers: Stage 2	95.4%	94.3%	93.8%	93.5%	93.5%	88.9%	100.0%	94.2%	0.5%
M1C	Ulcers: Stage 3	99.4%	98.5%	98.6%	98.6%	98.4%	97.2%	100.0%	98.8%	0.6%
M1D	Ulcers: Stage 4	98.4%	98.8%	98.1%	98.6%	98.1%	94.6%	100.0%	98.4%	0.6%
M2A	Pressure ulcer highest stage	95.0%	94.6%	93.6%	94.2%	93.3%	94.6%	100.0%	94.2%	0.6%
M2B	Stasis ulcer highest stage	99.4%	98.9%	98.6%	98.4%	98.5%	100.0%	100.0%	98.9%	0.7%
M3	History of resolved ulcers	95.1%	94.6%	93.2%	93.9%	92.0%	92.4%	89.7%	93.0%	4.0%
M4B	Burns (second or third degree)	99.5%	99.9%	99.8%	99.7%	100.0%	100.0%	100.0%	99.8%	0.0%
M4C	Open lesions other than ulcers, rashes, cuts	98.8%	97.2%	96.6%	97.6%	96.9%	100.0%	100.0%	97.6%	0.0%
M4E	Skin desensitized to pain or pressure	96.2%	96.2%	95.7%	95.5%	94.8%	95.1%	100.0%	95.7%	0.0%
M4G	Surgical wounds	96.6%	95.4%	96.4%	96.8%	97.5%	92.7%	100.0%	96.6%	0.0%
M5A	Pressure relieving device(s) for chair	93.9%	92.9%	91.1%	92.1%	93.4%	87.8%	95.7%	92.9%	0.0%
M5B	Pressure relieving device(s) for bed	95.6%	95.0%	93.8%	91.9%	93.9%	87.8%	87.0%	94.1%	0.0%
M5C	Turning/repositioning program	94.1%	91.5%	91.6%	92.7%	92.6%	92.7%	100.0%	92.8%	0.0%
M5D	Nutrition/hydration intervention	95.3%	92.9%	91.5%	91.8%	91.8%	90.2%	100.0%	93.0%	0.0%
M5E	Ulcer care	96.2%	97.1%	94.8%	95.0%	94.8%	95.1%	95.7%	95.7%	0.0%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
M5F	Surgical wound care	97.2%	97.0%	98.0%	96.9%	97.7%	97.6%	100.0%	97.3%	0.0%
M5G	Application of dressings	92.4%	90.9%	89.5%	89.0%	89.8%	85.4%	95.7%	90.6%	0.1%
M5H	Application of ointments/medications	89.1%	85.4%	83.5%	83.4%	84.4%	68.3%	78.3%	85.5%	0.1%
M5I	Other preventative/protective skin care	90.3%	89.2%	87.2%	87.0%	88.9%	82.9%	95.7%	88.8%	0.0%
M5J	Skin treatments: None of Above	97.3%	97.2%	93.4%	94.7%	95.1%	85.4%	78.3%	95.7%	0.0%
M6B	Infection of foot--e.g., cellulitis, etc.	99.3%	97.6%	99.3%	98.1%	98.8%	97.6%	100.0%	98.7%	0.0%
M6C	Open lesions on foot	98.7%	97.9%	98.2%	98.2%	98.8%	97.6%	100.0%	98.4%	0.0%
M6F	Application of dressings	97.2%	95.0%	96.4%	95.6%	95.9%	92.7%	100.0%	96.1%	0.0%
N1A	Awake in morning	95.1%	95.4%	93.8%	94.7%	94.0%	92.1%	100.0%	94.7%	0.1%
N1B	Awake in afternoon	94.1%	93.2%	94.9%	93.3%	94.9%	92.1%	100.0%	94.1%	0.1%
N1C	Awake in evening	91.8%	90.9%	88.7%	90.5%	90.0%	86.8%	100.0%	90.6%	0.1%
N1D	Awake: None of Above	97.9%	97.8%	97.7%	96.9%	97.3%	100.0%	100.0%	97.6%	0.0%
N2	Average Time Involved in Activities	96.1%	93.2%	93.4%	94.4%	92.6%	92.1%	100.0%	94.2%	1.6%
O2	New Medications	91.2%	83.4%	76.5%	77.3%	72.6%	68.1%	64.6%	74.8%	4.7%
O3	Injections (number days)	81.8%	82.0%	84.0%	85.2%	84.8%	71.8%	69.6%	83.2%	3.1%
O4A	Antipsychotic	96.5%	93.9%	93.9%	94.8%	94.5%	86.5%	100.0%	94.9%	1.1%
O4B	Antianxiety	93.0%	91.6%	91.6%	92.5%	93.3%	91.9%	100.0%	92.6%	0.9%
O4C	Antidepressants	91.8%	89.4%	90.5%	90.6%	91.2%	75.7%	100.0%	90.8%	0.8%
O4D	Hypnotic	95.4%	95.6%	96.1%	95.3%	95.8%	86.5%	100.0%	95.5%	1.1%
O4E	Diuretic	89.7%	91.7%	93.0%	90.3%	92.7%	78.4%	50.0%	91.1%	1.0%
P1AA	Chemotherapy	99.9%	99.5%	100.0%	99.6%	99.9%	100.0%	100.0%	99.8%	0.1%
P1AB	Dialysis	99.4%	99.7%	99.8%	100.0%	99.9%	100.0%	100.0%	99.7%	0.0%
P1AC	IV medication	92.4%	93.1%	94.1%	93.7%	94.9%	90.2%	100.0%	93.5%	0.0%
P1AE	Monitoring acute medical condition	89.2%	87.3%	85.9%	85.3%	87.6%	75.6%	95.7%	87.4%	0.1%
P1AG	Oxygen therapy	94.5%	94.0%	95.7%	94.2%	93.6%	87.8%	91.3%	94.3%	0.0%
P1AH	Radiation	99.7%	99.6%	99.8%	99.7%	99.6%	100.0%	100.0%	99.7%	0.0%
P1AI	Suctioning	99.6%	99.3%	98.9%	99.4%	99.6%	100.0%	100.0%	99.4%	0.0%
P1AJ	Tracheostomy care	99.4%	99.5%	100.0%	99.7%	99.8%	100.0%	100.0%	99.6%	0.0%
P1AK	Transfusions	98.3%	98.9%	99.1%	99.4%	98.9%	100.0%	100.0%	98.8%	0.0%
P1AL	Ventilator or respirator	99.3%	99.5%	100.0%	99.7%	99.5%	100.0%	100.0%	99.6%	0.0%
P1AO	Hospice care	99.6%	98.9%	98.4%	99.4%	98.8%	97.6%	100.0%	99.1%	0.0%
P1AP	Pediatric unit	100.0%	99.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
P1AQ	Respite care	99.9%	99.9%	100.0%	99.7%	100.0%	100.0%	100.0%	99.9%	0.0%
P1AR	Training in community skills	94.4%	92.7%	95.2%	95.4%	96.9%	90.2%	100.0%	94.9%	0.0%
P1BAA	Speech therapy: # days	91.2%	93.2%	96.0%	95.0%	96.8%	87.5%	95.7%	94.0%	2.3%
P1BAB	Speech therapy: total # minutes	88.6%	92.0%	95.3%	94.9%	96.6%	87.2%	95.7%	92.8%	4.2%
P1BBA	Occupational therapy: # days	77.0%	83.8%	89.8%	91.0%	91.5%	82.1%	82.6%	85.3%	2.2%
P1BBB	Occupational therapy: total # minutes	66.3%	76.3%	87.3%	89.3%	90.6%	78.9%	82.6%	79.9%	3.9%
P1BCA	Physical therapy: # days	76.6%	80.6%	87.5%	88.8%	88.0%	67.5%	73.9%	83.0%	2.2%
P1BCB	Physical therapy: total # minutes	63.1%	73.1%	83.5%	86.2%	87.3%	69.2%	73.9%	76.5%	3.9%
P1BDA	Respiratory therapy: # days	98.1%	98.2%	97.6%	97.2%	98.0%	94.9%	100.0%	97.9%	2.9%
P1BDB	Respiratory therapy: total # minutes	96.7%	96.4%	95.1%	95.9%	94.5%	92.1%	100.0%	95.8%	4.9%
P1BEA	Psychotherapy: # days	98.7%	98.2%	98.7%	98.4%	97.9%	97.4%	100.0%	98.4%	3.0%
P1BEB	Psychotherapy: total # minutes	98.7%	97.8%	98.5%	98.1%	97.7%	97.4%	100.0%	98.2%	4.9%
P3A	Nursing rehab: Range of motion (passive)	97.4%	93.9%	91.8%	90.5%	90.8%	87.8%	100.0%	93.5%	1.2%
P3B	Nursing rehab: Range of motion (active)	95.0%	89.1%	88.2%	84.6%	83.5%	82.9%	78.3%	88.7%	1.2%
P3C	Nursing rehab: Splint or brace assistance	99.0%	99.1%	98.2%	97.1%	97.1%	95.1%	91.3%	98.1%	1.4%
P3D	Nursing rehab: Bed mobility	99.6%	98.4%	98.9%	98.6%	98.7%	100.0%	100.0%	99.0%	1.4%
P3E	Nursing rehab: Transfer	98.1%	95.9%	97.9%	95.8%	96.2%	87.8%	91.3%	96.8%	1.3%
P3F	Nursing rehab: Walking	97.1%	92.3%	87.3%	88.0%	87.0%	87.8%	87.0%	91.2%	1.2%
P3G	Nursing rehab: Dressing or grooming	98.8%	97.6%	97.7%	96.7%	96.3%	97.6%	95.7%	97.6%	1.3%
P3H	Nursing rehab: Eating or	98.5%	98.8%	98.0%	97.9%	97.0%	97.6%	100.0%	98.1%	1.3%

MDS Item	Description	0-7 Gap Days	8-14 Gap Days	15-21 Gap Days	22-30 Gap Days	31-60 Gap Days	61-90 Gap Days	91+ Gap Days	Total	Missing
	swallowing									
P3I	Nursing rehab: Amputation/prosthesis care	100.0%	99.9%	100.0%	99.9%	100.0%	100.0%	100.0%	100.0%	1.3%
P3J	Nursing rehab: Communication	99.7%	99.7%	99.1%	99.3%	99.3%	100.0%	100.0%	99.5%	1.3%
P3K	Nursing rehab: Other	99.0%	98.0%	97.3%	97.2%	96.5%	100.0%	95.7%	97.8%	2.2%
P5	Hospital Stays	85.7%	80.3%	79.5%	78.6%	75.7%	72.1%	77.0%	78.3%	3.4%
P6	Emergency Room (ER) Visits	95.6%	93.6%	93.3%	94.4%	91.2%	91.1%	90.0%	92.3%	3.2%
P7	Physician Visits	68.2%	52.6%	50.6%	52.3%	49.1%	53.7%	43.5%	56.3%	1.0%
P8	Physician Orders	59.2%	44.0%	38.0%	41.4%	38.6%	26.8%	34.8%	46.1%	1.2%
Q2	Overall Change in Care Needs	81.1%	84.1%	85.7%	86.5%	86.0%	73.7%	0.0%	84.1%	1.4%
T1AA	Recreation therapy: # of days	100.0%	100.0%	100.0%	100.0%	99.7%	100.0%	--	99.9%	67.1%
T1AB	Recreation therapy: Total # minutes	100.0%	100.0%	100.0%	100.0%	99.7%	100.0%	--	99.9%	67.1%
T1B	Ordered Therapies	100.0%	--	0.0%	--	--	--	--	50.0%	100.0%
T1C	Ordered therapy: Estimated days until day 15	100.0%	--	--	--	--	--	--	100.0%	100.0%
T1D	Ordered therapy: Estimated minutes until day 15	100.0%	--	--	--	--	--	--	100.0%	100.0%
<b>Total</b>		<b>95.1%</b>	<b>93.9%</b>	<b>93.3%</b>	<b>93.5%</b>	<b>93.2%</b>	<b>91.9%</b>	<b>94.4%</b>	<b>93.6%</b>	<b>6.5%</b>
<b>Cum Gap</b>		<b>26.6%</b>	<b>41.4%</b>	<b>52.6%</b>	<b>67.8%</b>	<b>88.7%</b>	<b>92.0%</b>	<b>100.0%</b>		

**Table 12. Summary of Match Rates in Rate Order**

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
321	T1C	Ordered therapy: Estimated days until day 15	100.0%	x
322	T1D	Ordered therapy: Estimated minutes until day 15	100.0%	x
310	P3I	Nursing rehab: Amputation/prosthesis care	100.0%	x
177	I1W	Multiple sclerosis	99.9%	x
10	B1	Comatose	99.9%	x
201	J1C	Dehydrated--output exceeds input	99.8%	x
278	P1AA	Chemotherapy	99.8%	x
135	H3B	Bladder retraining program	99.8%	x
249	M4B	Burns (second or third degree)	99.8%	x
173	I1S	Cerebral palsy	99.8%	x
279	P1AB	Dialysis	99.7%	x
283	P1AH	Radiation	99.7%	x
285	P1AJ	Tracheostomy care	99.6%	x
180	I1Z	Quadriplegia	99.6%	x
287	P1AL	Ventilator or respirator	99.6%	x
311	P3J	Nursing rehab: Communication	99.5%	x
284	P1AI	Suctioning	99.4%	x
208	J1J	Internal bleeding	99.3%	x
237	K5B	Feeding tube	99.2%	x
187	I2G	Septicemia	99.2%	x
207	J1I	Hallucinations	99.2%	x
305	P3D	Nursing rehab: Bed mobility	99.0%	x
286	P1AK	Transfusions	98.8%	x
244	M1C	Ulcers: Stage 3	98.8%	x
171	I1R	Aphasia	98.8%	x
50	E1G	Recurrent statements of terrible future	98.7%	x
263	M6B	Infection of foot--e.g., cellulitis, etc.	98.7%	x
203	J1E	Delusions	98.7%	x
176	I1V	Hemiplegia/hemiparesis	98.6%	x
264	M6C	Open lesions on foot	98.4%	x
48	E1E	Self deprecation	98.4%	x
245	M1D	Ulcers: Stage 4	98.4%	x
304	P3C	Nursing rehab: Splint or brace assistance	98.1%	x
137	I1A	Diabetes mellitus	98.1%	x
309	P3H	Nursing rehab: Eating or swallowing	98.1%	x

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
236	K5A	Parenteral IV	97.9%	x
298	P1BDA	Respiratory therapy: # days	97.9%	x
206	J1H	Fever	97.7%	x
250	M4C	Open lesions other than ulcers, rashes, cuts	97.6%	x
308	P3G	Nursing rehab: Dressing or grooming	97.6%	x
258	M5F	Surgical wound care	97.3%	x
213	J1O	Vomiting	97.3%	x
49	E1F	Expression of unrealistic fears	97.3%	x
185	I2E	Pneumonia	97.1%	x
242	M1A	Ulcers: Stage 1	96.9%	x
53	E1J	Unpleasant mood in morning	96.8%	x
306	P3E	Nursing rehab: Transfer	96.8%	x
11	B2A	Short-term memory OK	96.7%	x
252	M4G	Surgical wounds	96.6%	x
58	E1O	Withdrawal from activities of interest	96.6%	x
45	E1B	Repetitive questions	96.5%	x
44	E1A	Negative statements	96.4%	x
61	E4AA	Wandering: Frequency	96.4%	x
65	E4CA	Physical abuse: Frequency	96.4%	x
265	M6F	Application of dressings	96.1%	x
46	E1C	Repetitive verbalizations	96.1%	x
59	E1P	Reduced social interaction	95.9%	x
257	M5E	Ulcer care	95.7%	x
56	E1M	Crying/tearfulness	95.6%	x
54	E1K	Insomnia/change in sleeping pattern	94.9%	x
51	E1H	Repetitive health complaints	94.7%	x
266	N1A	Awake in morning	94.7%	x
63	E4BA	Verbal abuse: Frequency	94.3%	x
282	P1AG	Oxygen therapy	94.3%	x
243	M1B	Ulcers: Stage 2	94.2%	x
246	M2A	Pressure ulcer highest stage	94.2%	x
254	M5B	Pressure relieving device(s) for bed	94.1%	x
267	N1B	Awake in afternoon	94.1%	x
57	E1N	Repetitive physical movements	94.0%	x
292	P1BAA	Speech therapy: # days	94.0%	x
52	E1I	Repetitive anxious complaints/concerns	93.6%	x
67	E4DA	Socially inappropriate: Frequency	93.5%	x

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
280	P1AC	IV medication	93.5%	x
302	P3A	Nursing rehab: Range of motion (passive)	93.5%	x
134	H3A	Any scheduled toileting plan	93.1%	x
36	C4	Making Self Understood	93.1%	x
256	M5D	Nutrition/hydration intervention	93.0%	x
240	K6A	Total calories (%) received in last 7 days	93.0%	x
253	M5A	Pressure relieving device(s) for chair	92.9%	x
255	M5C	Turning/repositioning program	92.8%	x
293	P1BAB	Speech therapy: total # minutes	92.8%	x
47	E1D	Persistent anger with self/others	92.7%	x
234	K3A	Weight loss	92.5%	x
18	B4	Cognitive Skills/Daily Decision Making	91.3%	x
307	P3F	Nursing rehab: Walking	91.2%	x
268	N1C	Awake in evening	90.6%	x
259	M5G	Application of dressings	90.6%	x
69	E4EA	Resist care: Frequency	90.0%	x
55	E1L	Sad/pained/worried facial expressions	89.0%	x
303	P3B	Nursing rehab: Range of motion (active)	88.7%	x
104	G1IB	Toilet: Support Provided	88.3%	x
88	G1AB	Bed mobility: Support Provided	87.1%	x
103	G1IA	Toilet: Self-Performance	86.9%	x
90	G1BB	Transfer: Support Provided	86.5%	x
89	G1BA	Transfer: Self-Performance	86.1%	x
101	G1HA	Eating: Self-Performance	85.7%	x
260	M5H	Application of ointments/medications	85.5%	x
87	G1AA	Bed mobility: Self-Performance	85.5%	x
294	P1BBA	Occupational therapy: # days	85.3%	x
241	K6B	Average fluid intake (daily) in last 7 days	83.9%	x
272	O3	Injections (number days)	83.2%	x
296	P1BCA	Physical therapy: # days	83.0%	x
295	P1BBB	Occupational therapy: total # minutes	79.9%	x
297	P1BCB	Physical therapy: total # minutes	76.5%	x
315	P7	Physician Visits	56.3%	x
320	T1B	Ordered Therapies	50.0%	x
316	P8	Physician Orders	46.1%	x
2	AB10C	Autism	100.0%	
289	P1AP	Pediatric unit	100.0%	

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
318	T1AA	Recreation therapy: # of days	99.9%	
319	T1AB	Recreation therapy: Total # minutes	99.9%	
184	I2D	HIV infection	99.9%	
290	P1AQ	Respite care	99.9%	
132	H2D	Fecal impaction	99.9%	
189	I2I	Tuberculosis	99.9%	
178	I1X	Paraplegia	99.9%	
31	C3C	Amer. sign language/Braille	99.8%	
158	I1KK	Diabetic retinopathy	99.7%	
41	D2B	Sees halos/rings/flashes/curtains	99.7%	
33	C3E	Communication board	99.7%	
139	I1B	Hyperthyroidism	99.6%	
8	AB5E	MR/DD setting	99.6%	
191	I2K	Viral hepatitis	99.6%	
209	J1K	Recurrent lung aspirations in last 90 days	99.6%	
167	I1P	Pathological bone fracture	99.6%	
211	J1M	Syncope (fainting)	99.6%	
188	I2H	Sexually transmitted diseases	99.5%	
163	I1N	Missing limb	99.5%	
230	K1C	Mouth pain	99.5%	
183	I2C	Conjunctivitis	99.5%	
182	I2B	Clostridium difficile (c. diff.)	99.4%	
34	C3F	Other	99.4%	
142	I1CC	Traumatic brain injury	99.4%	
28	C2C	Other receptive comm. techniques used	99.4%	
148	I1FF	Manic depressive (bipolar disease)	99.3%	
150	I1GG	Schizophrenia	99.2%	
288	P1AO	Hospice care	99.1%	
179	I1Y	Parkinson's disease	99.1%	
30	C3B	Writing messages	99.1%	
152	I1HH	Asthma	99.0%	
40	D2A	Side vision problems	99.0%	
136	H3H	Enemas/irrigation	99.0%	
140	I1BB	Transient ischemic attack (TIA)	98.9%	
162	I1MM	Macular degeneration	98.9%	
247	M2B	Stasis ulcer highest stage	98.9%	
153	I1I	Hypotension	98.9%	

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
226	J5C	End-stage disease, 6 or fewer months to live	98.8%	
181	I2A	Antibiotic resistant infection	98.8%	
160	I1LL	Glaucoma	98.8%	
81	F2C	Unhappy with other residents	98.8%	
204	J1F	Dizziness/vertigo	98.8%	
80	F2B	Unhappy with roommate	98.7%	
7	AB5D	MH/psychiatric setting	98.7%	
149	I1G	Deep vein thrombosis	98.7%	
84	F2F	Recent loss family/friend	98.6%	
35	C3G	Modes of expression: None of Above	98.6%	
62	E4AB	Wandering: Alterability	98.5%	
221	J4C	Hip fracture in last 180 days	98.5%	
83	F2E	Absence of contact with family/friends	98.4%	
217	J3C	Chest pain during usual activities	98.4%	
300	P1BEA	Psychotherapy: # days	98.4%	
110	G4AB	Neck: Voluntary movement	98.3%	
109	G4AA	Neck: Range of motion	98.3%	
161	I1M	Hip fracture	98.3%	
82	F2D	Open conflict/anger with family/friends	98.2%	
138	I1AA	Seizure disorder	98.2%	
301	P1BEB	Psychotherapy: total # minutes	98.2%	
27	C2A	Hearing aid present/used	98.2%	
170	I1QQ	Renal failure	98.1%	
202	J1D	Insufficient fluid in last 3 days	98.1%	
192	I2L	Wound infection	98.1%	
66	E4CB	Physical abuse: Alterability	98.0%	
222	J4D	Other fracture in last 180 days	97.8%	
168	I1PP	Cancer	97.8%	
200	J1B	Inability to lie flat--shortness of breath	97.8%	
312	P3K	Nursing rehab: Other	97.8%	
1	AB10B	Down's syndrome	97.7%	
120	G6A	Bedfast all or most of the time	97.7%	
269	N1D	Awake: None of Above	97.6%	
79	F2A	Covert/open conflict with staff	97.5%	
141	I1C	Hypothyroidism	97.5%	
154	I1II	Emphysema/COPD	97.4%	
186	I2F	Respiratory infection	97.3%	

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
143	I1D	Arteriosclerotic heart disease (ASHD)	97.3%	
169	I1Q	Alzheimer's disease	97.3%	
174	I1T	Cerebrovascular accident (stroke)	97.2%	
156	I1JJ	Cataracts	97.2%	
155	I1J	Peripheral vascular disease	97.2%	
114	G4CB	Hand: Voluntary movement	97.1%	
113	G4CA	Hand: Range of motion	97.1%	
64	E4BB	Verbal abuse: Alterability	97.0%	
232	K2A	Height (inches)	96.9%	
165	I1O	Osteoporosis	96.9%	
145	I1E	Cardiac dysrhythmias	96.8%	
199	J1A	Weight fluctuation 3+ lbs in 7 days	96.7%	
147	I1F	Congestive heart failure	96.6%	
112	G4BB	Arm: Voluntary movement	96.5%	
17	B3E	Recall: None of Above	96.5%	
68	E4DB	Socially inappropriate: Alterability	96.5%	
9	AB9	Mental Health History	96.4%	
12	B2B	Long-term memory OK	96.4%	
111	G4BA	Arm: Range of motion	96.4%	
144	I1DD	Anxiety disorder	96.3%	
20	B5B	Periods of altered perception/awareness	96.3%	
131	H2C	Diarrhea	96.2%	
21	B5C	Episodes of disorganized speech	96.1%	
42	D2C	Visual limitations: None of Above	96.0%	
299	P1BDB	Respiratory therapy: total # minutes	95.8%	
29	C3A	Speech	95.8%	
251	M4E	Skin desensitized to pain or pressure	95.7%	
19	B5A	Easily distracted	95.7%	
262	M5J	Skin treatments: None of Above	95.7%	
276	O4D	Hypnotic	95.5%	
23	B5E	Periods of lethargy	95.5%	
116	G4DB	Leg: Voluntary movement	95.5%	
16	B3D	Recall that he/she in nursing home	95.5%	
218	J3D	Headache	95.4%	
117	G4EA	Foot: Range of motion	95.4%	
14	B3B	Recall location of own room	95.4%	
3	AB10D	Epilepsy	95.4%	

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
118	G4EB	Foot: Voluntary movement	95.3%	
229	K1B	Swallowing problem	95.2%	
85	F2G	Does not easily adjust to routine change	95.1%	
115	G4DA	Leg: Range of motion	95.0%	
13	B3A	Recall current season	94.9%	
273	O4A	Antipsychotic	94.9%	
43	D3	Visual Appliances	94.9%	
291	P1AR	Training in community skills	94.9%	
125	G8C	Resident slow performing tasks/activity	94.8%	
32	C3D	Signs/gestures/sounds	94.8%	
210	J1L	Shortness of breath	94.8%	
15	B3C	Recall staff names/faces	94.8%	
78	F1G	Initiative/involvement: None of Above	94.7%	
22	B5D	Periods of restlessness	94.7%	
37	C5	Speech Clarity	94.7%	
159	I1L	Arthritis	94.6%	
157	I1K	Other cardiovascular disease	94.3%	
164	I1NN	Allergies	94.2%	
270	N2	Average Time Involved in Activities	94.2%	
235	K3B	Weight gain	94.2%	
166	I1OO	Anemia	94.1%	
228	K1A	Chewing problem	94.1%	
146	I1EE	Depression	94.0%	
130	H2B	Constipation	93.7%	
24	B5F	Mental function varies during day	93.6%	
121	G6B	Bed rails for bed mobility/transfer	93.5%	
70	E4EB	Resist care: Alterability	93.4%	
175	I1U	Dementia other than Alzheimer's	93.3%	
26	C1	Hearing	93.2%	
248	M3	History of resolved ulcers	93.0%	
75	F1D	Establishes own goals	93.0%	
76	F1E	Pursues involvement in life of facility	92.6%	
274	O4B	Antianxiety	92.6%	
77	F1F	Accepts invitations to most group activities	92.4%	
122	G7	Task Segmentation	92.4%	
314	P6	Emergency Room (ER) Visits	92.3%	
6	AB2	Admitted from (at Entry)	92.1%	

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
231	K1D	Oral problems: None of Above	92.0%	
38	C6	Ability to Understand Others	92.0%	
123	G8A	Resident--increased independence capability	92.0%	
100	G1GB	Dressing: Support Provided	91.9%	
151	I1H	Hypertension	91.8%	
39	D1	Vision	91.8%	
190	I2J	Urinary tract infection in last 30 days	91.6%	
277	O4E	Diuretic	91.1%	
106	G1JB	Personal hygiene: Support Provided	90.9%	
172	I1RR	Diseases: None of Above	90.9%	
275	O4C	Antidepressants	90.8%	
225	J5B	Resident experiencing acute episode/flare-up	90.7%	
107	G3A	Balance while standing	90.5%	
238	K5C	Mechanically altered diet	90.5%	
212	J1N	Unsteady gait	90.5%	
86	F2H	Unsettled relationships: None of Above	90.4%	
71	E5	Change in Behavioral Symptoms	90.3%	
102	G1HB	Eating: Support Provided	90.1%	
124	G8B	Staff--increased independence capability	90.1%	
25	B6	Change in Cognitive Status	90.1%	
72	F1A	At ease interacting with others	90.0%	
205	J1G	Edema	89.9%	
96	G1EB	Locomotion on unit: Support Provided	89.9%	
4	AB10E	Other organic condition related to MR/DD	89.8%	
98	G1FB	Locomotion off unit: Support Provided	89.5%	
108	G3B	Balance while sitting	89.4%	
92	G1CB	Walk in room: Support Provided	89.2%	
223	J4E	Accidents: None of Above	89.1%	
261	M5I	Other preventative/protective skin care	88.8%	
224	J5A	Conditions/diseases lead to instability	88.8%	
219	J4A	Fell in past 30 days	88.5%	
220	J4B	Fell in past 31-180 days	88.1%	
74	F1C	At ease doing self-initiated activities	88.0%	
119	G5D	Wheelchair for primary locomotion	87.9%	
127	H1A	Bowel continence	87.8%	
239	K5E	Therapeutic diet	87.7%	
94	G1DB	Walk in corridor: Support Provided	87.7%	

<b>ID</b>	<b>Item</b>	<b>Description</b>	<b>Near Tot Match Rate</b>	<b>RUGs</b>
91	G1CA	Walk in room: Self-Performance	87.6%	
73	F1B	At ease doing planned/structured activities	87.5%	
128	H1B	Bladder continence	87.4%	
281	P1AE	Monitoring acute medical condition	87.4%	
227	J5D	Stability of conditions: None of Above	87.2%	
99	G1GA	Dressing: Self-Performance	86.8%	
93	G1DA	Walk in corridor: Self-Performance	86.1%	
214	J1P	Problem conditions: None of Above	85.9%	
105	G1JA	Personal hygiene: Self-Performance	85.5%	
129	H2A	Bowel elimination pattern regular	84.1%	
60	E2	Mood Persistence	84.1%	
317	Q2	Overall Change in Care Needs	84.1%	
216	J2B	Pain: Intensity	83.9%	
97	G1FA	Locomotion off unit: Self-Performance	83.8%	
95	G1EA	Locomotion on unit: Self-Performance	83.6%	
133	H2E	Bowel elimination pattern: None of Above	82.8%	
193	I2M	Infections: None of Above	82.4%	
198	I3E	Other diagnosis e	81.2%	
215	J2A	Pain: Frequency	81.1%	
313	P5	Hospital Stays	78.3%	
197	I3D	Other diagnosis d	77.3%	
5	AB10F	MR/DD with no organic condition	75.9%	
271	O2	New Medications	74.8%	
196	I3C	Other diagnosis c	74.3%	
126	G9	Change in ADL Function	70.6%	
194	I3A	Other diagnosis a	66.8%	
195	I3B	Other diagnosis b	63.7%	
233	K2B	Weight (pounds)	43.5%	

**Table 13. Distribution of Match Rates**

<b>Total Near Match Rate</b>	<b>Number of Items</b>	<b>Percent of Items</b>	<b>Cum Pcnt of Items</b>
99%+	57	17.7%	17.7%
95%+	119	37.0%	54.7%
90%+	83	25.8%	80.4%
85%+	36	11.2%	91.6%
80%+	13	4.0%	95.7%
70%+	8	2.5%	98.1%
40%+	6	1.9%	100.0%
<b>Total</b>	<b>322</b>	<b>100.0%</b>	

**Table 14. MDS Items Required for Record Types and Utilized in Applications**

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qtly)	Rec= RQ (Qtly)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
A10A	Living will	x	x	x									
A10B	Do not resuscitate	x	x	x	x								
A10C	Do not hospitalize	x	x	x	x								
A10D	Organ donation	x	x	x									
A10E	Autopsy request	x	x	x									
A10F	Feeding restrictions	x	x	x									
A10G	Medication restrictions	x	x	x									
A10H	Other treatment restrictions	x	x	x									
A10I	Advanced directives: None of Above	x	x	x									
A2	Room Number	x	x	x	x	x	x						
A3A	Last day of MDS observation period	x	x	x	x	x	x				x		x
A3B	Original/corrected copy of form	x	x	x		x	x						
A4A	Date of Reentry	x	x	x	x	x	x		x				
A4B	Admitted from (at Reentry)								x				
A5	Marital Status	x	x	x	x								
A6	Medical Record No.	x	x	x	x	x	x	x	x				
A7A	Medicaid per diem	x	x	x									
A7B	Medicare per diem	x	x	x									
A7C	Medicare ancillary part A	x	x	x									
A7D	Medicare ancillary part B	x	x	x									
A7E	CHAMPUS per diem	x	x	x									
A7F	VA per diem	x	x	x									
A7G	Self or family pays for per diem	x	x	x									
A7H	Medicaid resident liability or Medicare copay	x	x	x									
A7I	Private insurance per diem	x	x	x									
A7J	Other per diem	x	x	x									
A9A	Legal guardian	x	x	x									
A9B	Other legal oversight	x	x	x									
A9C	Durable power attorney/health	x	x	x									
A9D	Durable power attorney/financial	x	x	x									
A9E	Family member responsible	x	x	x									
A9F	Patient responsible for self	x	x	x									
A9G	Responsibility/guardian: None of Above	x	x	x									
AA1A	Resident First Name	x	x	x	x	x	x	x	x				
AA1B	Resident Middle Initial	x	x	x	x	x	x	x	x				
AA1C	Resident Last Name	x	x	x	x	x	x	x	x				
AA1D	Resident Name Suffix	x	x	x	x	x	x	x	x				
AA2	Gender	x	x	x	x	x	x	x	x				
AA3	Birthdate	x	x	x	x	x	x	x	x				
AA4	Race/Ethnicity	x	x	x	x	x	x	x	x				
AA5A	Social Security Number	x	x	x	x	x	x	x	x				
AA5B	Resident Medicare number (or comparable number)	x	x	x	x	x	x	x	x				
AA6A	Facility State No.	x	x	x	x	x	x	x	x				
AA6B	Facility Federal No.	x	x	x	x	x	x	x	x				
AA7	Resident Medicaid No.	x	x	x	x	x	x	x	x				
AA8A	Primary reason fro assessment	x	x	x	x	x	x	x	x				x
AA8B	Special assessment code	x	x	x	x					x			x
AB1	Date of Entry	x						x					
AB10A	Not applicable--no MR/DD	x											
AB10B	Down's syndrome	x											
AB10C	Autism	x											
AB10D	Epilepsy	x											
AB10E	Other organic condition related to MR/DD	x											
AB10F	MR/DD with no organic condition	x											
AB11	Date Background Information Completed	x											
AB2	Admitted from (at Entry)	x						x					
AB3	Lived Alone (Prior to Entry)	x											

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qtly)	Rec= RQ (Qtly)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
AB4	Zip Code of Prior Primary Residence	x											
AB5A	Prior stay at this nursing home	x			x								x
AB5B	Stay in other nursing home	x			x								x
AB5C	Other residential facility	x			x								x
AB5D	MH/psychiatric setting	x			x								x
AB5E	MR/DD setting	x			x								x
AB5F	Residential history: None of Above	x			x								x
AB6	Lifetime Occupation(s)	x											
AB7	Education (Highest Level Completed)	x											
AB8A	Primary Language	x											
AB8B	If other (language), specify	x											
AB9	Mental Health History	x											
AC1A	Stays up late at night	x											
AC1B	Naps regularly during day	x											
AC1C	Goes out 1+ days a week	x											
AC1D	Stays busy with hobbies/fixd routine	x											
AC1E	Spends most time alone or TV	x											
AC1F	Moves independently indoors	x											
AC1G	Use of tobacco daily	x											
AC1H	Cycle of daily events: None of Above	x											
AC1I	Distinct food preferences	x											
AC1J	Eats between meals most days	x											
AC1K	Use of alcohol/weekly	x											
AC1L	Eating patterns: None of Above	x											
AC1M	In bedclothes much of day	x											
AC1N	Wakens to toilet most nights	x											
AC1O	Has irregular bowel movement pattern	x											
AC1P	Showers for bathing	x											
AC1Q	Bathing in PM	x											
AC1R	ADL patterns: None of Above	x											
AC1S	Daily contact with relatives/friends	x											
AC1T	Usually attends church, temple, etc.	x											
AC1U	Finds strength in faith	x											
AC1V	Daily animal companion	x											
AC1W	Involved in group activities	x											
AC1X	Involvement patterns: None of Above	x											
AC1Y	Unknown customary routine	x											
ASMT_L CK	Assessment Lock Date												
AT_SRC	Correction request source												
AT1	Correction: Attestation Sequence Number	x	x	x	x	x	x	x	x				
AT2	Correction: Action Requested	x	x	x	x	x	x	x	x				
AT3A	Modification: Transcription error	x	x	x	x	x	x	x	x				
AT3B	Modification: Data entry error	x	x	x	x	x	x	x	x				
AT3C	Modification: Software product error	x	x	x	x	x	x	x	x				
AT3D	Modification: Item coding error	x	x	x	x	x	x	x	x				
AT3E	Modification: Other error	x	x	x	x	x	x	x	x				
AT4A	Inactivation: Test record submitted as production record	x	x	x	x	x	x	x	x				
AT4B	Inactivation: Event did not occur	x	x	x	x	x	x	x	x				
AT4C	Inactivation: Submission of inappropriate record	x	x	x	x	x	x	x	x				
AT4D	Inactivation: Other reasons requiring inactivation	x	x	x	x	x	x	x	x				
AT5A	Attesting Individual: First name	x	x	x	x	x	x	x	x				
AT5B	Attesting Individual: Last name	x	x	x	x	x	x	x	x				
AT6	Attestation date	x	x	x	x	x	x	x	x				
B1	Comatose	x	x	x	x	x	x			x	x		x
B2A	Short-term memory OK	x	x	x	x	x	x			x	x	x	x

MDS Item	Description	Rec=A (Full)	Rec=Y (Full)	Rec=N (Full)	Rec=P (PPS)	Rec=M (Qtly)	Rec=RQ (Qtly)	Rec=D (Trck)	Rec=R (Trck)	App=RG	App=QI	App=RP	App=QM
B2B	Long-term memory OK	x	x	x	x	x	x					x	
B3A	Recall current season	x	x	x	x		x						
B3B	Recall location of own room	x	x	x	x		x						
B3C	Recall staff names/faces	x	x	x	x		x						
B3D	Recall that he/she in nursing home	x	x	x	x		x						
B3E	Recall: None of Above	x	x	x	x		x						
B4	Cognitive Skills/Daily Decision Making	x	x	x	x	x	x			x	x	x	x
B5A	Easily distracted	x	x	x	x	x	x					x	x
B5B	Periods of altered perception/awareness	x	x	x	x	x	x					x	x
B5C	Episodes of disorganized speech	x	x	x	x	x	x					x	x
B5D	Periods of restlessness	x	x	x	x	x	x					x	x
B5E	Periods of lethargy	x	x	x	x	x	x					x	x
B5F	Mental function varies during day	x	x	x	x	x	x					x	x
B6	Change in Cognitive Status	x	x	x								x	
C1	Hearing	x	x	x								x	
C2A	Hearing aid present/used	x	x	x									
C2B	Hearing aid present/not used regularly	x	x	x									
C2C	Other receptive comm. techniques used	x	x	x									
C2D	Communication devices: None of Above	x	x	x									
C3A	Speech	x	x	x									
C3B	Writing messages	x	x	x									
C3C	Amer. sign language/Braille	x	x	x									
C3D	Signs/gestures/sounds	x	x	x									
C3E	Communication board	x	x	x									
C3F	Other	x	x	x									
C3G	Modes of expression: None of Above	x	x	x									
C4	Making Self Understood	x	x	x	x	x	x			x		x	
C5	Speech Clarity	x	x	x									
C6	Ability to Understand Others	x	x	x	x	x	x					x	
C7	Change in Communication/Hearing	x	x	x								x	
CARE_L CK	Care Planning Lock Date												
CNT_FIL LER	Control Section Filler (Future Use)												
CRG_RT N	Carrage Return (ASCII 013)	x	x	x	x	x	x	x	x				
D1	Vision	x	x	x	x							x	
D2A	Side vision problems	x	x	x								x	
D2B	Sees halos/rings/ashes/curtains	x	x	x									
D2C	Visual limitations: None of Above	x	x	x									
D3	Visual Appliances	x	x	x									
DATA_E ND	End of Data Terminator Code	x	x	x	x	x	x	x	x				
E1A	Negative statements	x	x	x	x	x	x			x	x	x	x
E1B	Repetitive questions	x	x	x	x	x	x			x		x	
E1C	Repetitive verbalizations	x	x	x	x	x	x			x		x	x
E1D	Persistent anger with self/others	x	x	x	x	x	x			x		x	
E1E	Self depreciation	x	x	x	x	x	x			x		x	x
E1F	Expression of unrealistic fears	x	x	x	x	x	x			x		x	x
E1G	Recurrent statements of terrible future	x	x	x	x	x	x			x	x	x	x
E1H	Repetitive health complaints	x	x	x	x	x	x			x		x	x
E1I	Repetitive anxious complaints/concerns	x	x	x	x	x	x			x		x	
E1J	Unpleasant mood in morning	x	x	x	x	x	x			x	x	x	
E1K	Insomnia/change in sleeping pattern	x	x	x	x	x	x			x		x	
E1L	Sad/pained/worried facial expressions	x	x	x	x	x	x			x		x	
E1M	Crying/tearfulness	x	x	x	x	x	x			x		x	x
E1N	Repetitive physical movements	x	x	x	x	x	x			x	x	x	x

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qtly)	Rec= RQ (Qtly)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
E1O	Withdrawal from activities of interest	x	x	x	x	x	x			x	x	x	
E1P	Reduced social interaction	x	x	x	x	x	x			x	x	x	
E2	Mood Persistence	x	x	x	x	x	x				x	x	x
E3	Change in Mood	x	x	x								x	
E4AA	Wandering: Frequency	x	x	x	x	x	x			x		x	
E4AB	Wandering: Alterability	x	x	x	x	x	x						
E4BA	Verbal abuse: Frequency	x	x	x	x	x	x			x	x	x	
E4BB	Verbal abuse: Alterability	x	x	x	x	x	x						
E4CA	Physical abuse: Frequency	x	x	x	x	x	x			x	x	x	
E4CB	Physical abuse: Alterability	x	x	x	x	x	x						
E4DA	Socially inappropriate: Frequency	x	x	x	x	x	x			x	x	x	
E4DB	Socially inappropriate: Alterability	x	x	x	x	x	x						
E4EA	Resist care: Frequency	x	x	x	x	x	x			x	x	x	
E4EB	Resist care: Alterability	x	x	x	x	x	x						
E5	Change in Behavioral Symptoms	x	x	x								x	
F1A	At ease interacting with others	x	x	x									
F1B	At ease doing planned/structured activities	x	x	x									
F1C	At ease doing self-initiated activities	x	x	x									
F1D	Establishes own goals	x	x	x								x	
F1E	Pursues involvement in life of facility	x	x	x									
F1F	Accepts invitations to most group activities	x	x	x									
F1G	Initiative/involvement: None of Above	x	x	x									
F2A	Covert/open conflict with staff	x	x	x								x	
F2B	Unhappy with roommate	x	x	x								x	
F2C	Unhappy with other residents	x	x	x								x	
F2D	Open conflict/anger with family/friends	x	x	x								x	
F2E	Absence of contact with family/friends	x	x	x									
F2F	Recent loss family/friend	x	x	x									
F2G	Does not easily adjust to routine change	x	x	x									
F2H	Unsettled relationships: None of Above	x	x	x									
F3A	Strong identification with past roles	x	x	x								x	
F3B	Sadness/anger over lost roles/status	x	x	x								x	
F3C	Perceives daily routine very different	x	x	x								x	
F3D	Past roles: None of Above	x	x	x									
FAC_DO C_CD	Document ID Code (Facility Use)	x	x	x	x	x	x	x	x				
FAC_ID	Unique Facility ID Code (Location)	x	x	x	x	x	x	x	x				
FILLER1	Filler (future use)												
FILLER2	Blank Filler												
G1AA	Bed mobility: Self-Performance	x	x	x	x	x	x			x	x	x	x
G1AB	Bed mobility: Support Provided	x	x	x	x		x			x			
G1BA	Transfer: Self-Performance	x	x	x	x	x	x			x	x	x	x
G1BB	Transfer: Support Provided	x	x	x	x		x			x			
G1CA	Walk in room: Self-Performance	x	x	x	x	x	x				x	x	
G1CB	Walk in room: Support Provided	x	x	x	x		x						
G1DA	Walk in corridor: Self-Performance	x	x	x	x	x	x				x	x	
G1DB	Walk in corridor: Support Provided	x	x	x	x		x						
G1EA	Locomotion on unit: Self-Performance	x	x	x	x	x	x				x	x	x
G1EB	Locomotion on unit: Support Provided	x	x	x	x		x						
G1FA	Locomotion off unit: Self-Performance	x	x	x	x	x	x				x	x	
G1FB	Locomotion off unit: Support Provided	x	x	x	x		x						
G1GA	Dressing: Self-Performance	x	x	x	x	x	x				x	x	
G1GB	Dressing: Support Provided	x	x	x	x		x						

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qty)	Rec= RQ (Qty)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
G1HA	Eating: Self-Performance	x	x	x	x	x	x			x	x	x	x
G1HB	Eating: Support Provided	x	x	x	x		x						
G1IA	Toilet: Self-Performance	x	x	x	x	x	x			x	x	x	x
G1IB	Toilet: Support Provided	x	x	x	x		x			x			
G1JA	Personal hygiene: Self-Performance	x	x	x	x	x	x				x	x	
G1JB	Personal hygiene: Support Provided	x	x	x	x		x						
G2A	Bathing: Self-Performance	x	x	x	x	x	x					x	
G2B	Bathing: Support Provided	x	x	x									
G3A	Balance while standing	x	x	x	x		x						
G3B	Balance while sitting	x	x	x	x		x					x	
G4AA	Neck: Range of motion	x	x	x	x	x	x				x		
G4AB	Neck: Voluntary movement	x	x	x	x	x	x						
G4BA	Arm: Range of motion	x	x	x	x	x	x				x		
G4BB	Arm: Voluntary movement	x	x	x	x	x	x						
G4CA	Hand: Range of motion	x	x	x	x	x	x				x		
G4CB	Hand: Voluntary movement	x	x	x	x	x	x						
G4DA	Leg: Range of motion	x	x	x	x	x	x				x		
G4DB	Leg: Voluntary movement	x	x	x	x	x	x						
G4EA	Foot: Range of motion	x	x	x	x	x	x				x		
G4EB	Foot: Voluntary movement	x	x	x	x	x	x						
G4FA	Other: Range of motion	x	x	x	x	x	x				x		
G4FB	Other: Voluntary movement	x	x	x	x	x	x						
G5A	Cane/walker/crutch	x	x	x									
G5B	Wheeled self	x	x	x	x								
G5C	Other person wheeled	x	x	x									
G5D	Wheelchair for primary locomotion	x	x	x									
G5E	Modes of locomotion: None of Above	x	x	x									
G6A	Bedfast all or most of the time	x	x	x	x	x	x				x	x	x
G6B	Bed rails for bed mobility/transfer	x	x	x	x	x	x						
G6C	Lifted manually	x	x	x									
G6D	Lifted mechanically	x	x	x									
G6E	Transfer aid	x	x	x									
G6F	Modes of transfer: None of Above	x	x	x		x	x						
G7	Task Segmentation	x	x	x	x		x						
G8A	Resident--increased independence capability	x	x	x								x	
G8B	Staff--increased independence capability	x	x	x								x	
G8C	Resident slow performing tasks/activity	x	x	x									
G8D	Morning to evening difference in ADLs	x	x	x									
G8E	ADL rehab potential: None of Above	x	x	x									
G9	Change in ADL Function	x	x	x									
H1A	Bowel continence	x	x	x	x	x	x				x	x	x
H1B	Bladder continence	x	x	x	x	x	x				x	x	x
H2A	Bowel elimination pattern regular	x	x	x									
H2B	Constipation	x	x	x								x	
H2C	Diarrhea	x	x	x	x		x						
H2D	Fecal impaction	x	x	x	x	x	x				x	x	
H2E	Bowel elimination pattern: None of Above	x	x	x		x	x						
H3A	Any scheduled toileting plan	x	x	x	x	x	x			x	x		
H3B	Bladder retraining program	x	x	x	x	x	x			x	x		
H3C	External (condom) catheter	x	x	x	x	x	x					x	
H3D	Indwelling catheter	x	x	x	x	x	x				x	x	x
H3E	Intermittent catheter	x	x	x								x	
H3F	Did not use toilet/commode/urinal	x	x	x									
H3G	Pads/briefs used	x	x	x								x	
H3H	Enemas/irrigation	x	x	x									
H3I	Ostomy present	x	x	x	x	x	x				x		x
H3J	Appliances and programs: None of Above	x	x	x		x	x						
H4	Change in Urinary Continence	x	x	x									
HCFA_O	HCFA Other Required Information												

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qty)	Rec= RQ (Qty)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
THR													
I1A	Diabetes mellitus	x	x	x	x		x			x			x
I1AA	Seizure disorder	x	x	x									
I1B	Hyperthyroidism	x	x	x									
I1BB	Transient ischemic attack (TIA)	x	x	x									
I1C	Hypothyroidism	x	x	x									
I1CC	Traumatic brain injury	x	x	x									
I1D	Arteriosclerotic heart disease (ASHD)	x	x	x	x								
I1DD	Anxiety disorder	x	x	x									
I1E	Cardiac dysrhythmias	x	x	x									
I1EE	Depression	x	x	x	x		x					x	
I1F	Congestive heart failure	x	x	x	x								
I1FF	Manic depressive (bipolar disease)	x	x	x	x		x				x		
I1G	Deep vein thrombosis	x	x	x									
I1GG	Schizophrenia	x	x	x	x						x		
I1H	Hypertension	x	x	x									
I1HH	Asthma	x	x	x	x								
I1I	Hypotension	x	x	x								x	
I1II	Emphysema/COPD	x	x	x	x								
I1J	Peripheral vascular disease	x	x	x	x							x	x
I1JJ	Cataracts	x	x	x								x	
I1K	Other cardiovascular disease	x	x	x									
I1KK	Diabetic retinopathy	x	x	x									
I1L	Arthritis	x	x	x									
I1LL	Glaucoma	x	x	x								x	
I1M	Hip fracture	x	x	x	x		x						
I1MM	Macular degeneration	x	x	x									
I1N	Missing limb	x	x	x									
I1NN	Allergies	x	x	x									
I1O	Osteoporosis	x	x	x									
I1OO	Anemia	x	x	x									
I1P	Pathological bone fracture	x	x	x									
I1PP	Cancer	x	x	x									
I1Q	Alzheimer's disease	x	x	x									
I1QQ	Renal failure	x	x	x									
I1R	Aphasia	x	x	x	x		x			x			
I1RR	Diseases: None of Above	x	x	x			x						
I1S	Cerebral palsy	x	x	x	x		x			x			
I1T	Cerebrovascular accident (stroke)	x	x	x	x		x						
I1U	Dementia other than Alzheimer's	x	x	x									
I1V	Hemiplegia/hemiparesis	x	x	x	x		x			x			
I1W	Multiple sclerosis	x	x	x	x		x			x			
I1X	Paraplegia	x	x	x	x								
I1Y	Parkinson's disease	x	x	x									
I1Z	Quadriplegia	x	x	x	x		x			x			
I2A	Antibiotic resistant infection	x	x	x	x		x						
I2B	Clostridium difficile (c. diff.)	x	x	x	x		x						
I2C	Conjunctivitis	x	x	x	x		x						
I2D	HIV infection	x	x	x	x		x						
I2E	Pneumonia	x	x	x	x		x			x			
I2F	Respiratory infection	x	x	x	x		x						
I2G	Septicemia	x	x	x	x		x			x			
I2H	Sexually transmitted diseases	x	x	x	x		x						
I2I	Tuberculosis	x	x	x	x		x						
I2J	Urinary tract infection in last 30 days	x	x	x	x	x	x				x	x	x
I2K	Viral hepatitis	x	x	x	x		x						
I2L	Wound infection	x	x	x	x		x						
I2M	Infections: None of Above	x	x	x	x	x	x						
I3A	Other diagnosis a	x	x	x	x	x	x				x	x	x
I3B	Other diagnosis b	x	x	x	x	x	x				x	x	x
I3C	Other diagnosis c	x	x	x							x	x	x
I3D	Other diagnosis d	x	x	x							x	x	x
I3E	Other diagnosis e	x	x	x							x	x	x
J1A	Weight fluctuation 3+ lbs in 7 days	x	x	x	x		x					x	

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qtly)	Rec= RQ (Qtly)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
J1B	Inability to lie flat--shortness of breath	x	x	x	x		x						
J1C	Dehydrated--output exceeds input	x	x	x	x	x	x			x	x	x	
J1D	Insufficient fluid in last 3 days	x	x	x	x		x					x	
J1E	Delusions	x	x	x	x		x			x			
J1F	Dizziness/vertigo	x	x	x								x	
J1G	Edema	x	x	x	x		x						
J1H	Fever	x	x	x	x		x			x		x	
J1I	Hallucinations	x	x	x	x	x	x			x	x	x	
J1J	Internal bleeding	x	x	x	x		x			x		x	
J1K	Recurrent lung aspirations in last 90 days	x	x	x	x		x					x	
J1L	Shortness of breath	x	x	x	x		x						
J1M	Syncope (fainting)	x	x	x								x	
J1N	Unsteady gait	x	x	x	x		x					x	
J1O	Vomiting	x	x	x	x		x			x			
J1P	Problem conditions: None of Above	x	x	x		x	x						
J2A	Pain: Frequency	x	x	x	x	x	x						x
J2B	Pain: Intensity	x	x	x	x	x	x						x
J3A	Back pain	x	x	x									
J3B	Bone pain	x	x	x									
J3C	Chest pain during usual activities	x	x	x									
J3D	Headache	x	x	x									
J3E	Hip pain	x	x	x									
J3F	Incisional pain	x	x	x									
J3G	Joint pain (other than hip)	x	x	x									
J3H	Soft tissue pain (lesion)	x	x	x									
J3I	Stomach pain	x	x	x									
J3J	Other	x	x	x									
J4A	Fell in past 30 days	x	x	x	x	x	x				x	x	x
J4B	Fell in past 31-180 days	x	x	x	x	x	x					x	x
J4C	Hip fracture in last 180 days	x	x	x	x	x	x				x	x	
J4D	Other fracture in last 180 days	x	x	x	x	x	x				x		
J4E	Accidents: None of Above	x	x	x	x	x	x						
J5A	Conditions/diseases lead to instability	x	x	x	x	x	x						
J5B	Resident experiencing acute episode/flare-up	x	x	x	x	x	x						
J5C	End-stage disease, 6 or fewer months to live	x	x	x	x	x	x				x		x
J5D	Stability of conditions: None of Above	x	x	x	x	x	x						
K1A	Chewing problem	x	x	x	x		x						
K1B	Swallowing problem	x	x	x	x		x					x	
K1C	Mouth pain	x	x	x								x	
K1D	Oral problems: None of Above	x	x	x			x						
K2A	Height (inches)	x	x	x	x		x						x
K2B	Weight (pounds)	x	x	x	x		x						x
K3A	Weight loss	x	x	x	x	x	x			x	x	x	x
K3B	Weight gain	x	x	x	x	x	x						
K4A	Complains about taste of many foods	x	x	x								x	
K4B	Regular complaints of hunger	x	x	x									
K4C	Leaves 25%+ food uneaten at most meals	x	x	x								x	x
K4D	Nutritional problems: None of Above	x	x	x									
K5A	Parenteral IV	x	x	x	x		x			x		x	
K5B	Feeding tube	x	x	x	x	x	x			x	x	x	
K5C	Mechanically altered diet	x	x	x								x	
K5D	Syringe (oral feeding)	x	x	x								x	
K5E	Therapeutic diet	x	x	x								x	
K5F	Dietary supplement between meals	x	x	x									
K5G	Plate guard, stabilized utensil, etc.	x	x	x									
K5H	On a planned weight change program	x	x	x	x	x	x						
K5I	Nutritional approaches: None of	x	x	x		x	x						

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	Above												
K6A	Total calories (%) received in last 7 days	x	x	x	x		x			x			
K6B	Average fluid intake (daily) in last 7 days	x	x	x	x		x			x			
L1A	Debris in mouth before bed	x	x	x								x	
L1B	Has dentures or removable bridge	x	x	x									
L1C	Some/all natural teeth lost	x	x	x								x	
L1D	Broken, loose, or carious teeth	x	x	x								x	
L1E	Inflamed/bleeding gums, oral abscesses, etc.	x	x	x								x	
L1F	Daily cleaning teeth/dentures or mouth care	x	x	x								x	
L1G	Oral status: None of Above	x	x	x									
LN_FD	Line Feed (ASCII 010)	x	x	x	x	x	x	x	x				
M1A	Ulcers: Stage 1	x	x	x	x	x	x			x			
M1B	Ulcers: Stage 2	x	x	x	x	x	x			x			
M1C	Ulcers: Stage 3	x	x	x	x	x	x			x			
M1D	Ulcers: Stage 4	x	x	x	x	x	x			x			
M2A	Pressure ulcer highest stage	x	x	x	x	x	x			x	x	x	x
M2B	Stasis ulcer highest stage	x	x	x	x	x	x						
M3	History of resolved ulcers	x	x	x	x							x	x
M4A	Abrasions, bruises	x	x	x	x		x						
M4B	Burns (second or third degree)	x	x	x	x		x			x			
M4C	Open lesions other than ulcers, rashes, cuts	x	x	x	x		x			x			
M4D	Rashes--e.g., intertrigo, eczema, etc.	x	x	x	x		x						
M4E	Skin desensitized to pain or pressure	x	x	x	x		x					x	
M4F	Skin tears or cuts (other than surgery)	x	x	x	x		x						
M4G	Surgical wounds	x	x	x	x		x			x			
M4H	Other skin problems: None of Above	x	x	x	x		x						
M5A	Pressure relieving device(s) for chair	x	x	x	x		x			x			
M5B	Pressure relieving device(s) for bed	x	x	x	x		x			x			
M5C	Turning/repositioning program	x	x	x	x		x			x			
M5D	Nutrition/hydration intervention	x	x	x	x		x			x			
M5E	Ulcer care	x	x	x	x		x			x			
M5F	Surgical wound care	x	x	x	x		x			x			
M5G	Application of dressings	x	x	x	x		x			x			
M5H	Application of ointments/medications	x	x	x	x		x			x			
M5I	Other preventative/protective skin care	x	x	x	x		x						
M5J	Skin treatments: None of Above	x	x	x	x		x						
M6A	Resident has one or more foot problems	x	x	x	x		x						
M6B	Infection of foot--e.g., cellulitis, etc.	x	x	x	x		x			x			
M6C	Open lesions on foot	x	x	x	x		x			x			
M6D	Nails/calluses trimmed in last 90 days	x	x	x	x		x						
M6E	Received preventative/protective foot care	x	x	x	x		x						
M6F	Application of dressings	x	x	x	x		x			x			
M6G	Foot problems: None of Above	x	x	x	x		x						
MCD_CM I	State Medicaid Recomputed Case Mix Index												
MCD_GP	Medicaid Recomputed Case Mix Group												
MCD_VR	State Medicaid Recomputed Case Mix Version												
MCR_CM I	Medicare Recomputed Case Mix Index												
MCR_GP	Medicare Recomputed Case Mix												

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qty)	Rec= RQ (Qty)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
	Group												
MCR_VR	Medicare Recomputed Case Mix Version												
N1A	Awake in morning	x	x	x	x	x	x			x	x	x	
N1B	Awake in afternoon	x	x	x	x	x	x			x	x		
N1C	Awake in evening	x	x	x	x	x	x			x	x		
N1D	Awake: None of Above	x	x	x	x	x	x				x		
N2	Average Time Involved in Activities	x	x	x	x	x	x				x	x	
N3A	Own room	x	x	x									
N3B	Day/activity room	x	x	x									
N3C	Inside NH/off unit	x	x	x									
N3D	Outside facility	x	x	x									
N3E	Activity settings: None of Above	x	x	x									
N4A	Cards/other games	x	x	x									
N4B	Crafts/arts	x	x	x									
N4C	Exercise/sports	x	x	x									
N4D	Music	x	x	x									
N4E	Reading/writing	x	x	x									
N4F	Spiritual/religious activities	x	x	x									
N4G	Trips/shopping	x	x	x									
N4H	Walking/wheeling outdoors	x	x	x									
N4I	Watching TV	x	x	x									
N4J	Gardening or plants	x	x	x									
N4K	Talking or conversing	x	x	x									
N4L	Helping others	x	x	x									
N4M	Activity preferences: None of Above	x	x	x									
N5A	Type of activities involved in	x	x	x									x
N5B	Extent of involvement in activities	x	x	x									x
O1	Number of Medications	x	x	x	x	x	x				x		
O2	New Medications	x	x	x									
O3	Injections (number days)	x	x	x	x		x			x			
O4A	Antipsychotic	x	x	x	x	x	x				x	x	
O4B	Antianxiety	x	x	x	x	x	x				x	x	
O4C	Antidepressants	x	x	x	x	x	x				x	x	
O4D	Hypnotic	x	x	x	x	x	x				x		
O4E	Diuretic	x	x	x	x	x	x						x
P_REC_DT	Previous Record Date		x										
P1AA	Chemotherapy	x	x	x	x		x			x			
P1AB	Dialysis	x	x	x	x		x			x			
P1AC	IV medication	x	x	x	x		x			x			
P1AD	Intake/output	x	x	x	x		x						
P1AE	Monitoring acute medical condition	x	x	x	x		x						
P1AF	Ostomy care	x	x	x	x		x						
P1AG	Oxygen therapy	x	x	x	x		x			x			
P1AH	Radiation	x	x	x	x		x			x			
P1AI	Suctioning	x	x	x	x		x			x			
P1AJ	Tracheostomy care	x	x	x	x		x			x			
P1AK	Transfusions	x	x	x	x		x			x			
P1AL	Ventilator or respirator	x	x	x	x		x			x			
P1AM	Alcohol/drug treatment program	x	x	x	x		x						
P1AN	Alzheimer's/dementia special care unit	x	x	x	x								
P1AO	Hospice care	x	x	x	x		x						x
P1AP	Pediatric unit	x	x	x	x		x						
P1AQ	Respite care	x	x	x	x		x						
P1AR	Training in community skills	x	x	x	x		x						
P1AS	Special treatments: None of Above	x	x	x	x		x						
P1BAA	Speech therapy: # days	x	x	x	x		x			x			
P1BAB	Speech therapy: total # minutes	x	x	x	x		x			x			
P1BBA	Occupational therapy: # days	x	x	x	x		x			x			
P1BBB	Occupational therapy: total # minutes	x	x	x	x					x			
P1BCA	Physical therapy: # days	x	x	x	x		x			x			
P1BCB	Physical therapy: total # minutes	x	x	x	x		x			x			
P1BDA	Respiratory therapy: # days	x	x	x	x		x			x			

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qtly)	Rec= RQ (Qtly)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
P1BDB	Respiratory therapy: total # minutes	x	x	x	x		x						
P1BEA	Psychotherapy: # days	x	x	x	x		x						
P1BEB	Psychotherapy: total # minutes	x	x	x	x		x						
P2A	Special behavioral symptom evaluation program	x	x	x									
P2B	Evaluation by licensed MH specialist	x	x	x									
P2C	Group therapy	x	x	x									
P2D	Resident-specific changes in environment	x	x	x									
P2E	Reorientation--e.g., cueing	x	x	x									
P2F	Intervention programs: None of Above	x	x	x									
P3A	Nursing rehab: Range of motion (passive)	x	x	x	x		x			x			
P3B	Nursing rehab: Range of motion (active)	x	x	x	x		x			x			
P3C	Nursing rehab: Splint or brace assistance	x	x	x	x		x			x			
P3D	Nursing rehab: Bed mobility	x	x	x	x		x			x			
P3E	Nursing rehab: Transfer	x	x	x	x		x			x			
P3F	Nursing rehab: Walking	x	x	x	x		x			x			
P3G	Nursing rehab: Dressing or grooming	x	x	x	x		x			x			
P3H	Nursing rehab: Eating or swallowing	x	x	x	x		x			x			
P3I	Nursing rehab: Amputation/prosthesis care	x	x	x	x		x			x			
P3J	Nursing rehab: Communication	x	x	x	x		x			x			
P3K	Nursing rehab: Other	x	x	x	x		x						
P4A	Full bed rails on all sides of bed	x	x	x	x	x	x						
P4B	Other types of side rails used	x	x	x	x	x	x						
P4C	Trunk restraint	x	x	x	x	x	x				x	x	x
P4D	Limb restraint	x	x	x	x	x	x				x	x	x
P4E	Chair prevents rising	x	x	x	x	x	x				x	x	x
P5	Hospital Stays	x	x	x									
P6	Emergency Room (ER) Visits	x	x	x									
P7	Physician Visits	x	x	x	x		x			x			
P8	Physician Orders	x	x	x	x		x			x			
P9	Abnormal Lab Values	x	x	x									
PRIOR_A 3A	Prior Rec: Assessment reference date	x	x	x	x	x	x	x	x				
PRIOR_A 3B	Prior Rec: Original/corrected copy of form												
PRIOR_A 4A	Prior Rec: Reentry date	x	x	x	x	x	x	x	x				
PRIOR_A A1A	Prior Rec: First name	x	x	x	x	x	x	x	x				
PRIOR_A A1C	Prior Rec: Last name	x	x	x	x	x	x	x	x				
PRIOR_A A2	Prior Rec: Gender	x	x	x	x	x	x	x	x				
PRIOR_A A3	Prior Rec: Birthdate	x	x	x	x	x	x	x	x				
PRIOR_A A5A	Prior Rec: Social security number	x	x	x	x	x	x	x	x				
PRIOR_A A8A	Prior Rec: Primary assessment reason	x	x	x	x	x	x	x	x				
PRIOR_A A8B	Prior Rec: Supplemental assessment reason	x	x	x	x	x	x	x	x				
PRIOR_R4	Prior Rec: Discharge date	x	x	x	x	x	x	x	x				
Q1A	Resident wishes to return to community	x	x	x	x								
Q1B	Support person positive toward discharge	x	x	x									
Q1C	Stay projected to be of short duration	x	x	x	x								

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qty)	Rec= RQ (Qty)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
Q2	Overall Change in Care Needs	x	x	x	x	x	x						
R1A	Participate in assessment: Resident	x	x	x									
R1B	Participate in assessment: Family	x	x	x									
R1C	Participate in assessment: Significant other	x	x	x									
R2B	Date RN Coordinator Signed Assessment as Complete	x	x	x	x	x	x						
R3A	Code for Resident Discharge Disposition							x					
R3B	Optional State Discharge Code							x					
R4	Discharge Date							x					
REC_ID	Record ID	x	x	x	x	x	x	x	x				
REC_TY PE	Record Type Code	x	x	x	x	x	x	x	x				
RES_ID	Unique Resident ID Code	x	x	x	x	x	x	x	x				
S	Section S. Supplement--State Specific												
SFT_VE R	Software Version	x	x	x	x	x	x	x	x				
SFTW_ID	Software Vendor Or Agent Tax ID	x	x	x	x	x	x	x	x				
SUB_RE Q	Requirement for submitting this MDS record	x	x	x	x	x	x	x	x				
T1AA	Recreation therapy: # of days												
T1AB	Recreation therapy: Total # minutes												
T1B	Ordered Therapies				x					x			
T1C	Ordered therapy: Estimated days until day 15				x					x			
T1D	Ordered therapy: Estimated minutes until day 15				x					x			
T2A	Furthest distance walked												
T2B	Time walked without sitting down												
T2C	Self-performance in walking												
T2D	Walking support provided												
T2E	Parallel bars used												
T3MDCR	Medicare Case Mix Group				x								
T3STATE	State Case Mix Group				x								
VA01A	Delirium: Triggered	x	x										
VA01B	Delirium: Proceed with care	x	x										
VA02A	Cognitive loss: Triggered	x	x										
VA02B	Cognitive loss: Proceed with care	x	x										
VA03A	Visual function: Triggered	x	x										
VA03B	Visual function: Proceed with care	x	x										
VA04A	Communication: Triggered	x	x										
VA04B	Communication: Proceed with care	x	x										
VA05A	ADL function: Triggered	x	x										
VA05B	ADL function: Proceed with care	x	x										
VA06A	Urinary incontinence: Triggered	x	x										
VA06B	Urinary incontinence: Proceed with care	x	x										
VA07A	Psychosocial well-being: Triggered	x	x										
VA07B	Psychosocial well-being: Proceed with care	x	x										
VA08A	Mood state: Triggered	x	x										
VA08B	Mood state: Proceed with care	x	x										
VA09A	Behavior symptoms: Triggered	x	x										
VA09B	Behavior symptoms: Proceed with care	x	x										
VA10A	Activities: Triggered	x	x										
VA10B	Activities: Proceed with care	x	x										
VA11A	Falls: Triggered	x	x										
VA11B	Falls: Proceed with care	x	x										
VA12A	Nutritional status: Triggered	x	x										
VA12B	Nutritional status: Proceed with care	x	x										
VA13A	Feeding tubes: Triggered	x	x										
VA13B	Feeding tubes: Proceed with care	x	x										
VA14A	Dehydration: Triggered	x	x										

MDS Item	Description	Rec= A (Full)	Rec= Y (Full)	Rec= N (Full)	Rec= P (PPS)	Rec= M (Qtly)	Rec= RQ (Qtly)	Rec= D (Trck)	Rec= R (Trck)	App= RG	App= QI	App= RP	App= QM
VA14B	Dehydration: Proceed with care	x	x										
VA15A	Dental care: Triggered	x	x										
VA15B	Dental care: Proceed with care	x	x										
VA16A	Pressure ulcers: Triggered	x	x										
VA16B	Pressure ulcers: Proceed with care	x	x										
VA17A	Psychotropic drug use: Triggered	x	x										
VA17B	Psychotropic drug use: Proceed with care	x	x										
VA18A	Physical restraints: Triggered	x	x										
VA18B	Physical restraints: Proceed with care	x	x										
VB2	RAP Assessment Signature Date	x	x										
VB4	RAP Care Plan Signature Date	x	x										
VCODE1	Version Completed Code	x	x	x	x	x	x	x	x				
VCODE2	Layout Submitted Version Code	x	x	x	x	x	x	x	x				
W1	National Provider ID	x	x	x	x	x	x	x	x				
W2A	Influenza vaccine received in facility	x	x	x	x	x	x	x					
W2B	Reason influenza vaccine not received	x	x	x	x	x	x	x					
W3A	Resident up to date with PPV status	x	x	x	x	x	x	x					
W3B	Reason PPV not received	x	x	x	x	x	x	x					

## A-6: Guide to RPT Variables

The purpose of this document is to serve as a guide to the variables contained in the RPT file. The RPT file was created by merging STRIVE MDS records for each resident in the STRIVE study with data obtained from the MDS repository for the same residents. The RPT file contains four major sets of variables:

- **STRIVE MDS variables.** Items that were collected on the STRIVE MDS.
- **“Pre” MDS variables.** Values obtained from MDS repository records which precede the STRIVE study date for the resident. For each MDS variable, the latest non-missing value was obtained from the repository data and stored in the relevant “pre” variable.
- **“Post” MDS variables.** Values obtained from MDS repository records that followed the STRIVE study date for the resident. For each MDS variable, the earliest non-missing value was obtained from the repository data and stored in the relevant “post” variable.
- **“Near” MDS variables.** For each MDS variable, the pre and post values were examined. The near value was obtained using the following rules:
  - If both the pre and post values were missing, the near value was set to missing.
  - If the pre value was non-missing, and the post value was missing, then the near value was set to the pre value.
  - If the pre value was missing, and the post value was non-missing, then the near value was set to the post value.
  - If the pre and post values were both non-missing, the near value was set to the value that came from the assessment that was closest in time to the STRIVE study date. If both the pre and post values were equidistant from the study date, then the near value was set to the pre value.

### MDS Variable Prefixes

Most of the variables in the RPT file have prefixes that help identify them. The portion of the variable name that follows the prefix identifies the MDS item or scale that it corresponds to. For example, "strive\_aa5a" is the version of item AA5a that came from the STRIVE MDS. Table 15 is a guide to the prefixes that are used.

**Table 15. MDS Variable Prefix Descriptions**

Prefix	Description
strive_	Items from STRIVE MDS.
pre_rpt_	Items from "pre" MDS items (character version).
pre_rptn_	Numeric version of the “pre_rpt_” variable. Only numeric MDS items that are represented on the STRIVE MDS have a pre_rptn_ value.
pre_lag_	Lag (in days) between the study date and the target date of the assessment that the item came from. Lag is computed as [study date] – [target date] (therefore, pre_ items always have positive lag values).
pre_rfa_	Reason for assessment (RFA) for the assessment that the item came from. The RFA is a 3 byte character field that concatenates AA8a + AA8b. For example, an assessment with AA8a="01 and AA8b="7" would have a value of "017".
pre_match_	Flag indicating whether the pre value matches the STRIVE value: 1=values match 0=values don't match . (dot)=one or both values missing
post_rpt_	Items from "post" MDS items (character version).
post_rptn_	Numeric version of the “post_rpt_” variable. Only numeric MDS items that are represented on the STRIVE MDS have a post_rptn_ value.

Prefix	Description
post_lag_	Lag (in days) between the study date and the target date of the assessment that the item came from. Lag is computed as [study date] – [target date] (therefore, post_ items always have negative lag values).
post_rfa_	Reason for assessment (RFA) for the assessment that the item came from. The RFA is a 3 byte character field that concatenates AA8a + AA8b. For example, an assessment with AA8a="01 and AA8b="7" would have a value of "017".
post_match_	Flag indicating whether the post value matches the STRIVE value: 1=values match 0=values don't match . (dot)=one or both values missing
near_rpt_	Items from "near" MDS items (character version). The near item is pre or post value with the smallest lag. If the pre value is missing, the post value is used. If the post value is missing, the pre value is used. If both values are non-missing and have the same lag, the pre value is used.
near_rptn_	Numeric version of the "near_rpt_" variable. Only numeric MDS items that are represented on the STRIVE MDS have a near_rptn_ value.
near_lag_	Lag (in days) between study date and target date of assessment that the item came from. Lag is computed as [study date] – [target date]. When a near value comes from a pre assessment, the lag value will be positive. When it comes from a post assessment, the lag value will be negative.
near_rfa_	Reason for assessment (RFA) for the assessment that the item came from. The RFA is a 3 byte character field that concatenates AA8a + AA8b. For example, an assessment with AA8a="01 and AA8b="7" would have a value of "017".
near_match_	Flag indicating whether the near value matches the STRIVE value: 1=values match 0=values don't match . (dot)=one or both values missing

## Identifying Fields

The fields identified in Table 16 identifies the resident to which the assessment belongs.

**Table 16. Resident Identification Variables**

Variable	Description
strive_res_id	STRIVE resident ID.
strive_fac_id	STRIVE facility ID.
state_id	MDS repository state ID
fac_int_id	MDS repository facility internal ID (state_id + fac_int_id uniquely identifies each facility).
res_int_id	MDS repository resident internal ID (state_id + res_int_id uniquely identifies each resident).
study_dt	STRIVE study date (set to the Thursday of the week of the time study).
finder_mds_flag	Indicates the type of match reported by the repository match program.

## RPT Administrative Fields

There are a number of administrative fields that are produced by the RPT programs. These fields are used to store information about the assessment(s) that served as the source for the RPT data. There are three sets of fields: one set for pre variables, a second set for post variables, and a third set for near variables.

**Table 17 describes the administrative fields that were created for the pre variables. There are corresponding post and near fields.**

**Table 17. Pre Variable Administrative Fields**

Variable	Description
pre_found_rec	Flag indicating whether any pre record was found (1=record found, 0=record not found).
pre_rec_aa8a	AA8a value from the pre record of any type that was closest in time to the study date (blank if no record found).
pre_rec_aa8b	AA8b value from the pre record of any type that was closest in time to the study date (blank if no record found).
pre_rec_target_date	Target date from the pre record of any type that was closest in time to the study date (blank if no record found).
pre_rec_lag	Lag (in days) from the pre record of any type that was closest in time to the study date (missing if no record found).
pre_found_asmt	Flag indicating whether any pre assessment was found (1=record found, 0=record not found). An assessment is defined as a record with AA8a=00, 01, 02, 03, 04, 05, or 10.
pre_asmt_aa8a	AA8a value from the pre assessment that was closest in time to the study date (blank if no record found). An assessment is defined as a record with AA8a=00, 01, 02, 03, 04, 05, or 10.
pre_asmt_aa8b	AA8b value from the pre assessment that was closest in time to the study date (blank if no record found). An assessment is defined as a record with AA8a=00, 01, 02, 03, 04, 05, or 10.
pre_asmt_target_date	Target date from the pre assessment that was closest in time to the study date (blank if no record found). An assessment is defined as a record with AA8a=00, 01, 02, 03, 04, 05, or 10.
pre_asmt_lag	Lag (in days) from the pre assessment that was closest in time to the study date (missing if no record found). An assessment is defined as a record with AA8a=00, 01, 02, 03, 04, 05, or 10.
pre_found_full	Flag indicating whether any pre full assessment was found (1=record found, 0=record not found). A full assessment is defined as a record with AA8a=01, 02, 03, or 04.
pre_full_aa8a	AA8a value from the pre full assessment that was closest in time to the study date (blank if no record found). An assessment is defined as a record with AA8a=01, 02, 03, or 04.
pre_full_aa8b	AA8b value from the pre full assessment that was closest in time to the study date (blank if no record found). An assessment is defined as a record with AA8a=01, 02, 03, or 04.
pre_full_target_date	Target date from the pre full assessment that was closest in time to the study date (blank if no record found). An assessment is defined as a record with AA8a=00, 01, 02, 03, or 04.
pre_full_lag	Lag (in days) from the pre full assessment that was closest in time to the study date (missing if no record found). An assessment is defined as a record with AA8a=00, 01, 02, 03, or 04.
pre_found_pps	Flag indicating whether any pre PPS assessment was found (1=record found, 0=record not found). A PPS assessment is defined as a record with AA8b=1, 2, 3, 4, 5, 7, or 8.
pre_pps_aa8a	AA8a value from the pre PPS assessment that was closest in time to the study date (blank if no record found). A PPS assessment is defined as a record with AA8b=1, 2, 3, 4, 5, 7, or 8.
pre_pps_aa8b	AA8b value from the pre PPS assessment that was closest in time to the study date (blank if no record found). A PPS assessment is defined as a record with AA8b=1, 2, 3, 4, 5, 7, or 8.
pre_pps_target_date	Target date from the pre PPS assessment that was closest in time to the study date (blank if no record found). A PPS assessment is defined as a record with AA8b=1, 2, 3, 4, 5, 7, or 8.

Variable	Description
pre_pps_lag	Lag (in days) from the pre PPS assessment that was closest in time to the study date (missing if no record found). A PPS assessment is defined as a record with AA8b=1, 2, 3, 4, 5, 7, or 8.
pre_pps_rug	53-Group RUG value that was stored in the MDS repository from the pre PPS assessment. A PPS assessment is defined as a record with AA8b=1, 2, 3, 4, 5, 7, or 8.
pre_found_disch	Flag indicating whether any pre discharge record was found (1=record found, 0=record not found). A discharge is defined as a record with AA8b=1, 2, 3, 4, 5, 7, or 8.
pre_disch_aa8a	AA8a value from the pre discharge record that was closest in time to the study date (blank if no record found). A discharge is defined as a record with AA8a=06, 07, or 08.
pre_disch_aa8b	AA8b value from the pre discharge record that was closest in time to the study date (blank if no record found). A discharge is defined as a record with AA8a=06, 07, or 08.
pre_disch_target_date	Target date from the pre discharge record that was closest in time to the study date (blank if no record found). A discharge is defined as a record with AA8a=06, 07, or 08.
pre_disch_lag	Lag (in days) from the pre discharge record that was closest in time to the study date (missing if no record found). A discharge is defined as a record with AA8a=06, 07, or 08.
pre_found_reent	Flag indicating whether any pre reentry record was found (1=record found, 0=record not found). A reentry is defined as a record with AA8a=09.
pre_reent_aa8a	AA8a value from the pre reentry record that was closest in time to the study date (blank if no record found). A reentry is defined as a record with AA8a=09.
pre_reent_aa8b	AA8b value from the pre reentry record that was closest in time to the study date (blank if no record found). A reentry is defined as a record with AA8a=09.
pre_reent_target_date	Target date from the pre reentry record that was closest in time to the study date (blank if no record found). A reentry is defined as a record with AA8a=09.
pre_reent_lag	Lag (in days) from the pre reentry record that was closest in time to the study date (missing if no record found). A reentry is defined as a record with AA8a=09.

### Special Diagnosis Code Variables

There is a special series of variables related to the MDS diagnosis code fields (items I3a through I3e). These special fields have the suffix “\_full” at the end of the variable name. These variables contain the diagnosis code values that were obtained from the nearest full assessment, if one is available. There are pre, post, and near versions of these fields, and rpt, lag, and rfa values are available.

The rationale for the creation of these fields is that MDS rules require that the diagnosis code fields be fully completed only on full assessments. Intervening quarterly assessments are required to list only those diagnosis codes that have changed since the last assessment.

## A-7: STRIVE MAR Database

Table 18. Example STRIVE MAR Data

EXAMPLE KEY	Facility ID	Resident ID	Status	Type of Documentation	STM Start Date	STM End Date	STM within MAR provided	NDC (if provided on MAR)	Drug name as entered on MAR	Drug Strength or Volume	Strength or Volume Units	Quantity	Frequency
1	CO10	R511	Active	1	6/7/2005	6/13/2007	TRUE	12345-1234-12	CELEBREX 100 MG CAPSULE	100	2	1	BID
2	CO10	R511	Active	1	6/7/2005	6/13/2007	TRUE		SIMVASTATIN 80 MG TABLET	80	2	0.5	QD
3	CO10	R511	Active	1	6/7/2005	6/13/2007	TRUE		BACTRIM DS TABLET			2	BID
4	CO10	R511	Active	1	6/7/2005	6/13/2007	TRUE		ASPIRIN 300 MG SUPPOSITORY	300	2	1	QD
5	CO10	R511	Active	1	6/7/2005	6/13/2007	TRUE		HUMULIN R 100 UNITS/ML VIAL	1	4	1	AC and QHS
6	CO10	R511	Active	1	6/7/2005	6/13/2007	TRUE	99999-8888-77	MILK OF MAGNESIA SUSPENSION	15	5	1	QHS
7	NE2	R99999	Inactive	3	7/28/2007	8/4/2007	TRUE		NORVASC 5 MG TABLET	5	2	1	QD
8	NE2	R99999	Inactive	3	7/28/2007	8/4/2007	TRUE		SOTALOL AF 120 MG TABLET	120	2	1	BID
9	NE2	R99999	Inactive	3	7/28/2007	8/4/2007	TRUE		ZITHROMAX 250 MG TABLET	250	2	1	QD
10	NE2	R99999	Inactive	3	7/28/2007	8/4/2007	TRUE		FOSAMAX 70 MG TABLET	70	2	1	once monthly

Table 19. Example STRIVE MAR Data - Continued

EXAMPLE KEY	Route	PRN?	Duration in days (if provided on MAR)	Drug Start Date	Drug Discontinuation Date (if ordered)	Medication NOT administered during STM?	STM Day 1-7 AS ORDERED	STM Day1	STM Day2	STM Day3	STM Day4	STM Day5	STM Day6	STM Day7
1	PO	TRUE		6/7/2007		FALSE	FALSE		2		1	2	2	2
2	PO	FALSE		6/10/2007	6/27/2007	FALSE	TRUE							
3	PO	FALSE	14	6/10/2007		FALSE	TRUE							
4	RECTALLY	TRUE		6/15/2007		TRUE	FALSE							
5	SUBCUTANEOUS	TRUE		6/7/2007		TRUE	FALSE							
6	PO	TRUE		6/7/2007		FALSE	FALSE							
7	PO	FALSE		3/1/2007		FALSE	FALSE				1	1	1	1
8	PO	FALSE		3/2/2007		FALSE	FALSE				2	2	2	2
9	PO	FALSE		7/31/2007	8/4/2007	TRUE	FALSE							
10	By Mouth (ORAL)	FALSE		9/1/2006		TRUE	FALSE							

**Table 20. Variable Explanation**

<b>VARIABLE</b>	<b>NOTES or EXPLANATION</b>
<b><i>"Resident" Variables</i></b>	<b><i>These will be entered into a separate table so as not to repeat for each line item drug which will be linkable to the drug/MAR table by Facility ID and Resident ID</i></b>
Facility ID	
Resident ID	
Status	"Active" or "Inactive"
Type of Documentation	complete MAR, orders, pharmacy printouts, incomplete MAR
STM start date	date acquired from the <b>LookBackDates.xls</b> file provided by CMS
STM end date	date acquired from the <b>LookBackDates.xls</b> file provided by CMS
STM within MAR provided	response = yes/no; i.e., are all 7 days of STM within the month for which a MAR was provided? Will be determined by data entry staff.
<b><i>"Drug" Variables</i></b>	
NDC	per MAR if provided
Drug as entered on MAR	Drug name, strength, formulation AS THEY ARE LISTED in FirstDataBank. This field in the database will be a drop down that will list all brand and generic drugs as listed in FDB. This will allow for matching to an NDC (and thus costs) at a later date.
Drug strength or volume	numeric
Strength or volume units	mg, grams, mL, Liter, etc. via drop down list
Quantity	numeric
Frequency	once daily, twice daily, once weekly, etc. via drop down list
Route	by mouth, injection, rectally, etc. via drop down list
PRN?	response = yes/no
<b><i>Other Variables</i></b>	
Duration in days	if provided on MAR
Drug start date	if provided on MAR
Drug discontinuation date	if provided on MAR
Medication NOT administered during STM	response = yes/no; an indicator to alert us that the med was not administered during the look back period... this is an easy data entry piece that will assist in future determinations of total daily drug costs
STM Day1-7 AS ORDERED	response = yes/no; if yes then the med was given as ordered for each day of the 7 day STM period and thus data entry not needed for the following 7 variables
STM Day1	Numeric indicator of the number of doses given the first day of the STM period
STM Day2	Numeric indicator of the number of doses given the 2nd day of the STM period
STM Day3	Numeric indicator of the number of doses given the 3rd day of the STM period
STM Day4	Numeric indicator of the number of doses given the 4th day of the STM period
STM Day5	Numeric indicator of the number of doses given the 5th day of the STM period
STM Day6	Numeric indicator of the number of doses given the 6th day of the STM period
STM Day7	Numeric indicator of the number of doses given the 7th day of the STM period

**Table 21. CMS Variables Omitted**

<b>VARIABLE</b>	<b>REASON</b>
GeneralID	Facility and STRIVE ID entered into database; this combined field can be created at a later time; repetitious to include in data entry at this point
DateCollStart	
DateCollEnd	
LastName	first 3 digits of residents last name is unnecessary due to the presence of facility and STRIVE IDs
DOB	can be link from separate database via facility/STRIVE ID at a later time
Drug Generic	"Drug as entered on MAR" will provide us with the Drug name/strength/formulation as listed in FirstData Bank; Either the brand or generic name may be listed on MAR, whichever is not can be aquired through a query with FDB at a later time.
Drug Brand	"Drug as entered on MAR" will provide us with the Drug name/strength/formulation as listed in FirstData Bank; Either the brand or generic name may be listed on MAR, whichever is not can be aquired through a query with FDB at a later time.
DrugClassGTC	Will be added at a later time via query of the "Drug as entered on MAR" field with FDB.
DrugClassSTC	Will be added at a later time via query of the "Drug as entered on MAR" field with FDB.
DrugClassAHFS	Will be added at a later time via query of the "Drug as entered on MAR" field with FDB.
DrugClassETC	Will be added at a later time via query of the "Drug as entered on MAR" field with FDB.
Form	Supplied in "Drug as entered on MAR". Can be separated out via query of "Drug as entered on MAR" field with FDB at a later time
TotDD	Total strength of the drug prescribed daily can be calculated at a later time
DailyDose	The sum of drug units administered/ingested in a 24 hour period will be determined by the STM period daily dosages received fields
Dose	This field can be determined from the "Strength" and "Quantity" fields at a later time
FreqDay	Not necessary as the "Frequency" field will identify meds at administered once weekly or once monthly
FreqMonth	Not necessary as the "Frequency" field will identify meds at administered once weekly or once monthly
AdminMonth	Not necessary as the "Frequency" field will identify meds at administered once weekly or once monthly
Any Cost variable	Will be merged from FDB or other database (matched by NDC) at a later time

**Table 22. Types of Drugs**

**Drugs were categorized into 4 classes based on administration timing: Regular, Maintenance, Episodic, and PRN (as needed)**

Classification	Example Key Line*	Explanation
Regular	2	drugs given at regularly scheduled intervals, such as daily, every other day, twice daily, three times a day, etc, and were given throughout the portion of the MAR month during which the patient resided in the facility. A "Regular" drug will be identified via the "Frequency" variable. As long as the "start" and "discontinuation" dates for "regular" drugs encompass the STM dates, then these drugs will have been administered daily to the resident (barring hold orders or patient refusal - which are documented on MARs).
Maintenance	10	drugs given weekly or monthly. A "maintenance" drug will be identified via the "Frequency" variable. There is a strong possibility in the case of monthly maintenance drugs that they will NOT be administered during the STM period. Future considerations will be made as to how to handle the costs of these drugs.
Episodic	3	Drugs given regularly but for a short period of time, such as chemotherapy agents, antibiotics, etc. These drugs will best be identified by the start and stop dates, i.e., if Penicillin is started on 9/27/07 and is discontinued on 10/10/07, then it will be identified as an episodic drug. There is a possibility of false positives due to patient discharge, discontinuation of one drug but start up of another drug of the same class, etc but those rare situations will be assessed later. It is possible that the "Duration" variable is available in the MAR and can also serve as an indicator of short term, episodic use.
PRN	1	Self-explanatory; These will be identified via simple yes/no indicator of the "PRN?" variable.

\*from "Example data" tab

## A-8: STRIVE IT Survey

Figure 14. STRIVE IT Assessment Survey Form

Facility Name: \_\_\_\_\_ Facility STRIVE ID: \_\_\_\_\_



**STRIVE Information Technology Assessment**

The Centers For Medicare and Medicaid Services (CMS) is interested in the impact of clinical information systems on resident care.

Please answer the following questions regarding your facility's use of information technology for clinical purposes. Your answers will be used for analytical purposes only.

1. Does your nursing home use information technology (computers) for clinical purposes beyond entering the MDS?	Yes	No
---	-----	----

If your answer to 1 is Yes, please answer the following questions about the extent of your use:

	Yes	No
2. Does your facility have an all-electronic record?		
3. Do your clinicians use electronic assessments?		
a. Are your assessments predefined by your vendor?		
b. Do you define your own assessments?		
4. Do answers from your assessments flow to the MDS and other assessments?		
5. Does your computer present a draft care plan from the assessments?		
a. Do changes in resident condition cause updates to the care plans?		
6. Do you enter physician orders into the computer?		
a. Does the computer generate medication and treatment sheets?		
7. Does the computer detect drug, food, and allergy contraindications?		
8. Does the computer generate staff daily assignments?		
9. Are results of care captured at the bedside or other point of care?		
10. Is staff alerted to possible issues from care documentation?		
11. Do nursing assistants document their care on a computer when they give the care (at the point of care?)		
12. Are incidents, accidents, and infections documented in the computer?		
13. Are nursing notes and other clinical documentation in the computer?		
14. Is medication administration recorded in the computer at the time it is given?		
15. Are treatments recorded in the computer at the time they are given?		
16. Does the computer alert nurses to possible issues when care is documented?		
17. Do therapists record their care in a computer as it is being given?		
18. Does the computer help therapists develop and update plans of treatment?		
19. Does the computer alert therapists to CCI edits as a result of therapy?		
20. Does your computer system use an electronic signature and security that makes the records acceptable for legal and billing purposes?		

Please use the back or this form to make any comments about your use or plans for information systems.

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• STAFF • TIME • RESOURCE • INTENSITY • VERIFICATION •

STRIVE Information Technology Assessment v1.0 7/31/06 Page 1 of 1

## A-9: Culture Change Survey

Figure 15. STRIVE Artifacts of Culture Change Survey Form Page 1

1

### Artifacts of Culture Change

Home Name \_\_\_\_\_ Date \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Current number of residents \_\_\_\_\_

Ownership: \_\_\_\_\_ For Profit \_\_\_\_\_ Non-Profit \_\_\_\_\_ Government

Care Practice Artifacts	
<b>1. Percentage of residents who are offered any of the following styles of dining:</b> <ul style="list-style-type: none"> <li>▪ restaurant style where staff take resident orders;</li> <li>▪ buffet style where residents help themselves or tell staff what they want;</li> <li>▪ family style where food is served in bowls on dining tables where residents help themselves or staff assist them;</li> <li>▪ open dining where meal is available for at least 2 hour time period and residents can come when they choose; and</li> <li>▪ 24 hour dining where residents can order food from the kitchen 24 hours a day.</li> </ul>	<input type="checkbox"/> 100 – 81 % (5 points) <input type="checkbox"/> 80 – 61% (4 points) <input type="checkbox"/> 60 – 41% (3 points) <input type="checkbox"/> 40 – 21% (2 points) <input type="checkbox"/> 20 – 1% (1 point) <input type="checkbox"/> 0 (0 points)
<b>2. Snacks/drinks available at all times to all residents at no additional cost, i.e., in a stocked pantry, refrigerator or snack bar.</b>	<input type="checkbox"/> All residents (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)
<b>3. Baked goods are baked on resident living areas.</b>	<input type="checkbox"/> All days of the week (5 points) <input type="checkbox"/> 2-5 days/week (3 points) <input type="checkbox"/> < 2 days/week (0 points)
<b>4. Home celebrates residents' individual birthdays rather than, or in addition to, celebrating resident birthdays in a group each month.</b>	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
<b>5. Home offers aromatherapy to residents by staff or volunteers.</b>	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
<b>6. Home offers massage to residents by staff or volunteers.</b>	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)





**Edu-Catering: Catering Education for Compliance and Culture Change in LTC**

Figure 16. STRIVE Artifacts of Culture Change Survey Form Page 2

<p><b>7. Home has dog(s) and/or cat(s).</b></p>	<p><input type="checkbox"/> At least one dog or one cat lives on premises (5 points)  <input type="checkbox"/> The only animals in the building are when staff bring them during work hours (3 points)  <input type="checkbox"/> The only animals in the building are those brought in for special activities or by families (1 point)  <input type="checkbox"/> None (0 points)</p>
<p><b>8. Home permits residents to bring own dog and/or cat to live with them in the home.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>9. Waking times/bedtimes chosen by residents.</b></p>	<p><input type="checkbox"/> All residents (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None (0 points)</p>
<p><b>10. Bathing without a Battle techniques are used with residents.</b></p>	<p><input type="checkbox"/> All (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None (0 points)</p>
<p><b>11. Residents can get a bath/shower as often as they would like.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>12. Home arranges for someone to be with a dying resident at all times (unless they prefer to be alone) - family, friends, volunteers or staff.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>13. Memorials/remembrances are held for individual residents upon death.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>14. "I" format care plans, in the voice of the resident and in the first person, are used.</b></p>	<p><input type="checkbox"/> All care plans (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None (0 points)</p>

**Care Practice Artifacts Subtotal:** Out of a total 70 points, you scored \_\_\_\_\_.



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Figure 17. STRIVE Artifacts of Culture Change Survey Form Page 3

Environment Artifacts	
<b>15. Percent of residents who live in households that are self-contained with full kitchen, living room and dining room.</b>	<input type="checkbox"/> 100 – 81 % (100 points)
	<input type="checkbox"/> 80 – 61% (80 points)
	<input type="checkbox"/> 60 – 41% (60 points)
	<input type="checkbox"/> 40 – 21% (40 points)
	<input type="checkbox"/> 20 – 1% (20 points)
	<input type="checkbox"/> 0 (0 points)
<b>16. Percent of residents in private rooms.</b>	<input type="checkbox"/> 100 – 81 % (50 points)
	<input type="checkbox"/> 80 – 61% (40 points)
	<input type="checkbox"/> 60 – 41% (30 points)
	<input type="checkbox"/> 40 – 21% (20 points)
	<input type="checkbox"/> 20 – 1% (10 points)
	<input type="checkbox"/> 0 (0 points)
<b>17. Percent of residents in privacy enhanced shared rooms where residents can access their own space without trespassing through the other resident's space.</b> This does not include the traditional privacy curtain.	<input type="checkbox"/> 100 – 81 % (25 points)
	<input type="checkbox"/> 80 – 61% (20 points)
	<input type="checkbox"/> 60 – 41% (15 points)
	<input type="checkbox"/> 40 – 21% (10 points)
	<input type="checkbox"/> 20 – 1% (5 points)
	<input type="checkbox"/> 0 (0 points)
<b>18. No traditional nurses' stations or traditional nurses' stations have been removed.</b>	<input type="checkbox"/> No traditional nurses stations (25 points)
	<input type="checkbox"/> Some traditional nurses' stations have been removed (15 points)
	<input type="checkbox"/> Traditional nurses' stations remain in place (0 points)
<b>19. Percent of residents who have a direct window view not past another resident's bed.</b>	<input type="checkbox"/> 100 – 51% (5 points)
	<input type="checkbox"/> 50 – 0 % (0 points)
<b>20. Resident bathroom mirrors are wheelchair accessible and/or adjustable in order to be visible to a seated or standing resident.</b>	<input type="checkbox"/> All resident bathroom mirrors (5 points)
	<input type="checkbox"/> Some (3 points)
	<input type="checkbox"/> None (0 points)



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Figure 18. STRIVE Artifacts of Culture Change Survey Form Page 4

<p><b>21. Sinks in resident bathrooms are wheelchair accessible with clearance below sink for wheelchair.</b></p>	<p><input type="checkbox"/> All resident bathroom sinks (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)</p>
<p><b>22. Sinks used by residents have adaptive/easy-to-use lever or paddle handles.</b></p>	<p><input type="checkbox"/> All sinks (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)</p>
<p><b>23. Adaptive handles, enhanced for easy use, for doors used by residents (rooms, bathrooms and public areas).</b></p>	<p><input type="checkbox"/> All resident-used doors (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)</p>
<p><b>24. Closets have moveable rods that can be set to different heights.</b></p>	<p><input type="checkbox"/> All closets (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)</p>
<p><b>25. Home has no rule prohibiting, and residents are welcome, to decorate their rooms any way they wish including using nails, tape, screws, etc.</b></p>	<p><input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)</p>
<p><b>26. Home makes available extra lighting source in resident room if requested by resident such as floor lamps, reading lamps.</b></p>	<p><input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)</p>
<p><b>27. Heat/air conditioning controls can be adjusted in resident rooms.</b></p>	<p><input type="checkbox"/> All resident rooms (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)</p>
<p><b>28. Home provides or invites residents to have their own refrigerators.</b></p>	<p><input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)</p>
<p><b>29. Chairs and sofas in public areas have seat heights that vary to comfortably accommodate people of different heights.</b></p>	<p><input type="checkbox"/> Chair seat heights vary by 3" or more (5 points) <input type="checkbox"/> Chair seat heights vary by 1-3" (3 points) <input type="checkbox"/> Chair seat heights do not vary in height (0 points)</p>
<p><b>30. Gliders which lock into place when person rises are available inside the home and/or outside.</b></p>	<p><input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)</p>



**Edu-Catering: Catering Education for Compliance and Culture Change in LTC**

Figure 19. STRIVE Artifacts of Culture Change Survey Form Page 5

<p><b>β1. Home has store/gift shop/cart available where residents and visitors can purchase gifts, toiletries, snacks, etc.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>32. Residents have regular access to computer/Internet and adaptations are available for independent computer use such as large keyboard or touch screen.</b></p>	<p><input type="checkbox"/> Both Internet access and adaptations (10 points)  <input type="checkbox"/> Access without adaptations (5 points)  <input type="checkbox"/> Neither (0 points)</p>
<p><b>33. Workout room available to residents.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>34. Bathing rooms have functional and properly installed heat lamps, radiant heat panels or equivalent.</b></p>	<p><input type="checkbox"/> All bathing rooms (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None (0 points)</p>
<p><b>35. Home warms towels for resident bathing.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>36. Protected outdoor garden/patio accessible for independent use by residents.</b> Residents can go in and out independently, including those who use wheelchairs, e.g. residents do not need assistance from staff to open doors or overcome obstacles in traveling to patio.</p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>37. Home has outdoor, raised gardens available for resident use.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>38. Home has an outdoor walking/wheeling path which is not a city sidewalk or path.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>39. Pager/radio/telephone call system is used where resident calls register on staff's pagers/radios/telephones and staff can use it to communicate with fellow staff.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>40. Overhead paging system has been turned off or is only used in case of emergency.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>41. Personal clothing is laundered on resident household/neighborhood/unit instead of in a general all-home laundry, and residents/families have access to washer and dryer for own use.</b></p>	<p><input type="checkbox"/> Available to all residents (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None (0 points)</p>

**Environment Artifacts:** Out of a total 320 points, you scored \_\_\_\_\_.



**Edu-Catering: Catering Education for Compliance and Culture Change in LTC**

Figure 20. STRIVE Artifacts of Culture Change Survey Form Page 6

<b>Family and Community Artifacts</b>	
42. Regularly scheduled intergenerational program in which children customarily interact with residents at least once a week.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
43. Home makes space available for community groups to meet in home with residents welcome to attend.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
44. Private guestroom available for visitors at no, or minimal, cost for overnight stays.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
45. Home has café/restaurant/tavern/canteen available to residents, families, and visitors at which residents and family can purchase food and drinks daily.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
46. Home has special dining room available for family use/gatherings which excludes regular dining areas.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
47. Kitchenette or kitchen area with at least a refrigerator and stove is available to families, residents, and staff where cooking and baking are welcomed.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)

**Family and Community Artifacts Subtotal:**

Out of a 30 possible points, you scored \_\_\_\_\_ points.

<b>Leadership Artifacts</b>	
48. CNAs attend resident care conferences.	<input type="checkbox"/> All care conferences (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)
49. Residents or family members serve on home quality assessment and assurance (QAA) (QI, CQI, QA) committee.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
50. Residents have an assigned staff member who serves as a "buddy," case coordinator, Guardian Angel, etc. to check with the resident regularly and follow up on any concerns. This is in addition to any assigned social service staff.	<input type="checkbox"/> All new residents (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)
51. Learning Circles or equivalent are used regularly in staff and resident meetings in order to give each person the opportunity to share their opinion/ideas.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)



**Edu-Catering: Catering Education for Compliance and Culture Change in LTC**

Figure 21. STRIVE Artifacts of Culture Change Survey Form Page 7

<p><b>52. Community Meetings are held on a regular basis bringing staff, residents and families together as a community.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
--	--

**Leadership Artifacts Subtotal:** Out of a total 25 points, you scored \_\_\_\_\_.

<b>Workplace Practice Artifacts</b>	
<p><b>53. RNs consistently work with the residents of the same neighborhood/household/unit (with no rotation).</b></p>	<p><input type="checkbox"/> All RNs (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None = 0 points.</p>
<p><b>54. LPNs consistently work with the residents of the same neighborhood/household/unit (with no rotation).</b></p>	<p><input type="checkbox"/> All LPNs (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None (0 points)</p>
<p><b>55. CNAs consistently work with the residents of the same neighborhood/household/unit (with no rotation).</b></p>	<p><input type="checkbox"/> All CNAs (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None (0 points)</p>
<p><b>56. Self-scheduling of work shifts.</b>                      CNAs develop their own schedule and fill in for absent CNAs. CNAs independently handle the task of scheduling, trading shifts/days, and covering for each other instead of a staffing coordinator</p>	<p><input type="checkbox"/> All CNAs (5 points)  <input type="checkbox"/> Some (3 points)  <input type="checkbox"/> None (0 points)</p>
<p><b>57. Home pays expenses for non-managerial staff to attend outside conferences/workshops, e.g. CNAs, direct care nurses.</b> Check yes if at least one non-managerial staff member attended an outside conference/workshop paid by home in past year.</p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>58. Staff is not required to uniforms or "scrubs."</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>59. Percent of other staff cross-trained and certified as CNAs in addition to CNAs in the nursing department.</b></p>	<p><input type="checkbox"/> 100 – 81% (5 points)  <input type="checkbox"/> 80 – 61% (4 points)  <input type="checkbox"/> 60 – 41% (3 points)  <input type="checkbox"/> 40 – 21% (2 points)  <input type="checkbox"/> 20 – 1% (1 point)  <input type="checkbox"/> 0 (0 points)</p>
<p><b>60. Activities, informal or formal, are led by staff in other departments such as nursing, housekeeping or any departments.</b></p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>
<p><b>61. Awards given to staff to recognize commitment to person-directed care, e.g. Culture Change award, Champion of Change award.</b> This does not include Employee of the Month.</p>	<p><input type="checkbox"/> Yes (5 points)  <input type="checkbox"/> No (0 points)</p>



**Edu-Catering: Catering Education for Compliance and Culture Change in LTC**

Figure 22. STRIVE Artifacts of Culture Change Survey Form Page 8

<b>62. Career ladder positions for CNAs, e.g. CNA II, CNA III, team leader, etc.</b> There is a career ladder for CNAs to hold a position higher than base level.	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
<b>63. Job development program, e.g. CNA to LPN to RN to NP.</b>	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
<b>64. Day care onsite available to staff.</b>	<input type="checkbox"/> Yes (5 points) <input type="checkbox"/> No (0 points)
<b>65. Home has on staff a paid volunteer coordinator in addition to activity director.</b>	<input type="checkbox"/> Full time (30 hours/week or more) (5 points) <input type="checkbox"/> Part time (15-30 hours/week) (3 points) <input type="checkbox"/> No paid volunteer coordinator (0 points)
<b>66. Employee evaluations include observable measures of employee support of individual resident choices, control and preferred routines in all aspects of daily living.</b>	<input type="checkbox"/> All employee evaluations (5 points) <input type="checkbox"/> Some (3 points) <input type="checkbox"/> None (0 points)

**Workplace Practice Artifacts Subtotal:** Out of a total 70 points, you scored \_\_\_\_\_.

<b>Outcomes</b>	
<b>67. Average longevity of CNAs.</b> Add length of employment in years of permanent CNAs and divide by number of staff.	<input type="checkbox"/> Your home figure Above 5 years (5 points) 3-5 years (3 points) Below 3 years (0 points)
<b>68. Average longevity of LPNs (in any position).</b> Add length of employment in years of permanent staff LPNs and divide by number of staff.	<input type="checkbox"/> Your home figure Above 5 years (5 points) 3-5 years (3 points) Below 3 years (0 points)
<b>69. Average longevity of RN/GNs (in any position).</b> Add length of employment in years of all permanent RNs/GNs and divide by number of staff.	<input type="checkbox"/> Your home figure Above 5 years (5 points) 3-5 years (3 points) Below average (0 points)
<b>70. Longevity of the Director of Nursing (in any position).</b>	<input type="checkbox"/> Longevity as DON <input type="checkbox"/> Longevity at home Above 5 years (5 points) 3-5 years (3 points) Below average (0 points)



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Figure 23. STRIVE Artifacts of Culture Change Survey Form Page 9

<p><b>71. Longevity of the Administrator (in any position).</b></p>	<p>_____ Longevity as NHA                  _____ Longevity at home                  Above 5 years (5 points)                  3-5 years (3 points)                  Below average (0 points)</p>
<p><b>72. Turnover rate for CNAs.</b></p>	<p>Number of CNAs who left, voluntary or involuntary, in previous 12 months divided by number of total CNAs employed = turnover rate                  Your home's figure _____                  0 percent (5 points)                  20-39 % (4 points)                  40-59 % (3 points)                  60-79 % (2 points)                  80-99 % (1 point)                  100% and above (0 points)</p>
<p><b>73. Turnover rate for LPNs.</b></p>	<p>Number of LPNs who left, voluntary or involuntary, in previous 12 months divided by number of total LPNs employed = turnover rate                  Your home's figure _____                  0 - 12 % (5 points)                  13-25 % (4 points)                  26-38 % (3 points)                  39-51 % (2 points)                  52-65 % (1 point)                  66 % and above (0 points)</p>
<p><b>74. Turnover rate for RNs.</b></p>	<p>Number of RNs who left, voluntary or involuntary, in previous 12 months divided by number of total RNs employed = turnover rate                  Your home's figure _____                  0 - 12 % (5 points)                  13-25 % (4 points)                  26-38 % (3 points)                  39-51 % (2 points)                  52-65 % (1 point)                  66 % and above (0 points)</p>
<p><b>75. Turnover rate for DONs.</b></p>	<p>_____ Number of DONs in the last 12 months                  1 (5 points)                  2 (3 points)                  3 (0 points)</p>



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Figure 24. STRIVE Artifacts of Culture Change Survey Form Page 10

<p><b>76. Turnover rate for Administrators.</b></p>	<p>_____ Number of NHAs in the last 12 months</p> <p>1 (5 points) 2 (3 points) 3 (0 points)</p>
<p><b>77. Percent of CNA shifts covered by agency staff over the last month.</b></p>	<p>Total number of CNA shifts in a 24 hour period (all shifts no regardless of hours in a shift) _____</p> <p>Multiplied by number of days in last the last full month _____</p> <p>Of this number, number of shifts covered by an agency CNA _____</p> <p>_____ Your percentage (agency shifts/total number X days X 100)</p> <p>0 % (5 points) 1-5% (3 points) Over 5% (0 points)</p>
<p><b>78. Percent of nurse shifts covered by agency staff over the last month.</b></p>	<p>Total number of nurse shifts in a 24 hour period (all shifts no regardless of hours in a shift) _____</p> <p>Multiplied by number of days in last the last full month _____</p> <p>Of this number, number of shifts covered by an agency nurse _____</p> <p>_____ Your percentage (agency shifts/total number X days X 100)</p> <p>0 % (5 points) 1-5% (3 points) Over 5% (0 points)</p>
<p><b>79. Current occupancy rate.</b></p>	<p>_____ Your home figure</p> <p>Above 86 % (5 points) At average 83-85 % (3 points) Below 83 % (0 points)</p> <p>(Using the national 2004 average of 84.2% from CMS)</p>

**Outcomes Subtotal:** Out of a total 65 points, you scored \_\_\_\_\_.



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Figure 25. STRIVE Artifacts of Culture Change Survey Form Page 11

Artifacts Sections	Potential Points	Your Subtotal Scores
Care Practices	70	
Environment	320	
Family and Community	30	
Leadership	25	
Workplace Practice	70	
Outcomes	65	
<b>Artifacts of Culture Change</b>	<b>580</b>	<b>Grand Total</b>

Developed by the Centers for Medicare and Medicaid Services and Edu-Catering, LLP. For more information contact Karen Schoeneman at [karen.schoeneman@cms.hhs.gov](mailto:karen.schoeneman@cms.hhs.gov) or Carmen S. Bowman at [carmen@edu-catering.com](mailto:carmen@edu-catering.com).



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## A-10: Variance Analysis

**Table 23. All Cases Ther Proj (53 Grp)**

Sample Size: 12,000

Linear Combination:

MoE = 0.77

Mean = 86.01

MoE = 0.9%

Group Number	Group	Cases	Mean	Actual (SRS) Std Err	Actual (SRS) MoE	Actual (SRS) MoE Pcnt	Actual (SRS) Design Effect	Projected Cases	Projected Std Err	Projected MoE	Projected MoE Pcnt
1	RU_SE	20	184.23	12.09	25.29	13.7%	1.00	188	3.95	7.79	4.2%
2	RV_SE	14	105.05	4.46	9.64	9.2%	1.12	434	0.85	1.67	1.6%
3	RH_SE	27	78.64	2.51	5.15	6.6%	1.10	738	0.50	0.99	1.3%
4	RM_SE	75	53.23	2.95	5.88	11.0%	0.82	302	1.33	2.63	4.9%
5	RL_SE	14	36.36	3.55	7.67	21.1%	1.55	7	6.25	15.29	42.0%
6	RU	175	166.43	3.18	6.29	3.8%	1.25	1087	1.43	2.80	1.7%
7	RV	165	105.93	1.69	3.34	3.2%	2.76	2364	0.74	1.45	1.4%
8	RH	237	69.93	0.95	1.88	2.7%	1.87	2348	0.41	0.81	1.2%
9	RM	356	58.85	1.71	3.36	5.7%	3.32	1373	1.58	3.11	5.3%
10	RL	49	30.88	3.15	6.33	20.5%	1.33	55	3.42	6.86	22.2%
<b>99</b>	<b>All Cases</b>	<b>1133</b>	<b>86.01</b>					<b>8896</b>			

**Table 24. All Cases Ther Proj (34 Grp)**

Sample Size: 12,000

Linear Combination:

MoE = 3.54

Mean = 86.51

MoE = 4.1%

Group Number	Group	Cases	Mean	Actual (SRS) Std Err	Actual (SRS) MoE	Actual (SRS) MoE Pcnt	Actual (SRS) Design Effect	Projected Cases	Projected Std Err	Projected MoE	Projected MoE Pcnt
1	RAD	57	92.20	8.23	16.48	17.9%	1.46	172	5.73	11.30	12.3%
2	RAC	233	87.23	3.34	6.58	7.5%	1.70	548	2.84	5.57	6.4%
3	RAB	373	92.09	2.65	5.22	5.7%	2.99	851	3.04	5.96	6.5%
4	RAA	339	78.91	2.48	4.87	6.2%	3.88	526	3.92	7.70	9.8%
<b>99</b>	<b>All Cases</b>	<b>1002</b>	<b>86.51</b>	<b>1.59</b>	<b>3.12</b>	<b>3.6%</b>	<b>5.33</b>	<b>2097</b>	<b>2.53</b>	<b>4.97</b>	<b>5.7%</b>

**Table 25. Part A Ther Proj (53 Grp)**

Sample Size: 3,840  
 Linear Combination:  
 MoE = 1.36  
 Mean = 86.01  
 MoE = 1.6%

Group Number	Group	Cases	Mean	Actual (SRS) Std Err	Actual (SRS) MoE	Actual (SRS) MoE Pcnt	Actual (SRS) Design Effect	Projected Cases	Projected Std Err	Projected MoE	Projected MoE Pcnt
1	RU_SE	20	184.23	12.09	25.29	13.7%	1.00	60	6.99	14.00	7.6%
2	RV_SE	14	105.05	4.46	9.64	9.2%	1.12	139	1.50	2.97	2.8%
3	RH_SE	27	78.64	2.51	5.15	6.6%	1.10	236	0.89	1.76	2.2%
4	RM_SE	75	53.23	2.95	5.88	11.0%	0.82	97	2.35	4.67	8.8%
5	RL_SE	14	36.36	3.55	7.67	21.1%	1.55	2	11.69	148.51	408.5%
6	RU	175	166.43	3.18	6.29	3.8%	1.25	348	2.52	4.96	3.0%
7	RV	165	105.93	1.69	3.34	3.2%	2.76	757	1.31	2.57	2.4%
8	RH	237	69.93	0.95	1.88	2.7%	1.87	752	0.73	1.44	2.1%
9	RM	356	58.85	1.71	3.36	5.7%	3.32	439	2.80	5.50	9.4%
10	RL	49	30.88	3.15	6.33	20.5%	1.33	18	5.98	12.62	40.9%
<b>99</b>	<b>All Cases</b>	<b>1133</b>	<b>86.01</b>					<b>2848</b>			

**Table 26. Non-Part A Ther Proj (34 Grp)**

Sample Size: 8,160  
 Linear Combination:  
 MoE = 6.57  
 Mean = 86.51  
 MoE = 7.6%

Group Number	Group	Cases	Mean	Actual (SRS) Std Err	Actual (SRS) MoE	Actual (SRS) MoE Pcnt	Actual (SRS) Design Effect	Projected Cases	Projected Std Err	Projected MoE
1	RAD	57	92.20	8.23	16.48	17.9%	1.46	57	9.95	19.92
2	RAC	233	87.23	3.34	6.58	7.5%	1.70	167	5.14	10.15
3	RAB	373	92.09	2.65	5.22	5.7%	2.99	226	5.89	11.61
4	RAA	339	78.91	2.48	4.87	6.2%	3.88	150	7.34	14.50
<b>99</b>	<b>All Cases</b>	<b>1002</b>	<b>86.51</b>	<b>1.59</b>	<b>3.12</b>	<b>3.6%</b>	<b>5.33</b>	<b>600</b>	<b>4.74</b>	<b>9.31</b>

## A-11: Margin of Error Scenarios

Table 27. 1995/97 Time Study Nursing Time Margin of Error

Total	Part A	Other	Nursing Tme All Cases RUG53	Nursing Tme All Cases RUG34	Nursing Tme Part A RUG53	Nursing Tme Other RUG34	Therapy Time All Cases RUG53	Therapy Time All Cases RUG34	Therapy Time Part A RUG53	Therapy Time Other RUG34
3933	1395	2538	2.2%	2.5%			2.9%	6.0%		

Table 28. Projected Nursing Time Margin of Error (25% Part A Cut)

Total	Part A	Other	Nursing Tme All Cases RUG53	Nursing Tme All Cases RUG34	Nursing Tme Part A RUG53	Nursing Tme Other RUG34	Therapy Time All Cases RUG53	Therapy Time All Cases RUG34	Therapy Time Part A RUG53	Therapy Time Other RUG34
4000	1280	2720	1.9%	2.1%	3.9%	2.2%	1.5%	7.1%	2.7%	13.1%
5000	1600	3400	1.7%	1.9%	3.5%	2.0%	1.4%	6.3%	2.5%	11.7%
6000	1920	4080	1.5%	1.7%	3.2%	1.8%	1.3%	5.8%	2.2%	10.7%
7000	2240	4760	1.4%	1.6%	3.0%	1.7%	1.2%	5.3%	2.1%	9.9%
8000	2560	5440	1.3%	1.5%	2.8%	1.5%	1.1%	5.0%	1.9%	9.3%
9000	2880	6120	1.2%	1.4%	2.6%	1.5%	1.0%	4.7%	1.8%	8.8%
10000	3200	6800	1.2%	1.3%	2.5%	1.4%	1.0%	4.5%	1.7%	8.3%
11000	3520	7480	1.1%	1.2%	2.4%	1.3%	0.9%	4.3%	1.7%	7.9%
12000	3840	8160	1.1%	1.2%	2.3%	1.3%	0.9%	4.1%	1.6%	7.6%

Figure 26. Projected Nursing Time Margin of Error Graph

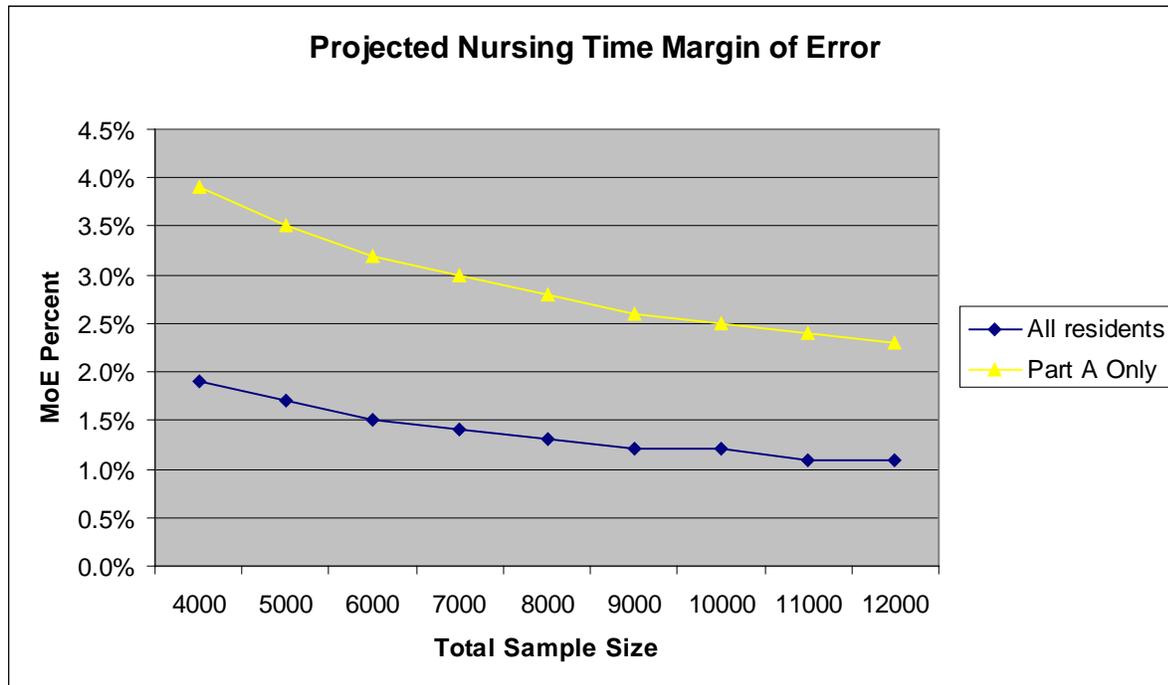
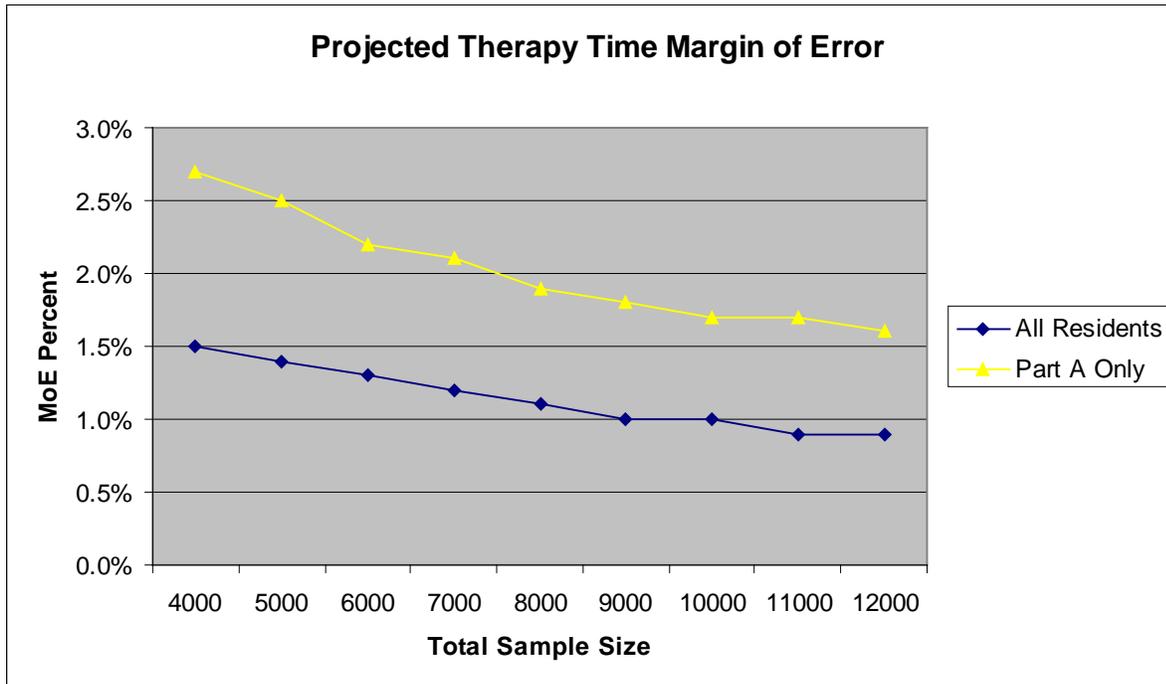


Figure 27. Projected Therapy Time Margin of Error Graph



## A-12: Special Populations

Table 29 lists the special populations, and how we defined them (including SAS code excerpts). This code was used to produce the special population counts used in the TEP slides (13-Feb-2008).

**Table 29. Special Population Code**

Special Population	SAS code excerpt	SAS code var name	Notes
Deaf	if c1 in (2,3) then hear=2; else if c1 in (1) then hear=1; else if c1=0 then hear=0;	hear	This is a different definition than the one Stepwise (Dave Malitz and Bob Godbout) uses.
Blind	if d1 in (3,4) then see=2; else if d1 in (1,2) then see=1; else if d1=0 then see=0;	see	This is a different definition than the one Stepwise (Dave Malitz and Bob Godbout) uses.
Deaf Blind	db_combo=(10*hear)+see;  if db_combo=0 then db_group=0; else if db_combo in (1,10) then db_group=1; else if db_combo in (2,20) then db_group=2; else if db_combo in (11) then db_group=11; else if db_combo in (12,21) then db_group=2; else if db_combo=22 then db_group=22; *this group seems to be recommended by jeff/john; label db_group="Deaf/blind code, 0=none, 1=minimal/moderate, 2= severe";	db_group	This is a different definition than the one Stepwise (Dave Malitz and Bob Godbout) uses.
Intellectual Disability	id=0; if AB10b=1 then id=1; **Down's syndrome**; else if AB10c=1 then id=1; **autism**; else if AB10d=1 then id=1; **epilepsy**; else if AB10e=1 then id=1; **Other organic condition related to MR/DD**; else if AB10f=1 then id=1; **other condition**; label id="Intellectual Disability";	id	
Obese	obese=0; if sbmi >=30 then obese=1; label obese="Obese: BMI >=30";	obese	
AIDS	if i2d = 1 and unit_type ne 10 then aids="10"; if i2d ne 1 and unit_type = 10 then aids="01"; if i2d = 1 and unit_type = 10 then aids="11";	aids	Includes both AIDS residents (as indicated by MDS) and residents on AIDS units.  The number reported is based on MDS only.
Alzheimer	if i1q = 1 and unit_type ne 4 then alzh="10"; if i1q ne 1 and unit_Type = 4 then alzh="01"; if i1q = 1 and unit_Type = 4 then alzh="11"; *added JCD (15-nov-07), includes spec unit;	alzh	Includes both Alzheimer residents (as indicated by MDS) and residents on Alzheimer units.  The number reported is based on MDS only.
Severe Mental Illness (SMI)	if fsminon_all = 1 and unit_type not in (5,6) then smi_all="10"; if fsminon_all ne 1 and unit_type in (5,6) then smi_all="01";	smi_all	<u>ICD-9 codes are based on section I3 in MDS 2.0 :</u> DRUG OR ALCOHOL PSYCHOSES/DEPENDENCE/NONDEP -

Special Population	SAS code excerpt	SAS code var name	Notes
	if fsminon_all= 1 and unit_type in (5,6) then smi_all ="11"; *added JCD (15-nov-07), includes MDS items (incl ICD-9 codes) or on locked mental health unit (unit_type=6) or open mental health unit (unit_type=5);		ICD9 291-292,303-305 SCHIZOPHRENIA - ICD9 295 OR SCHIZOPHR OR DELUSIONS OR HALLUCIN AFFECTIVE PSYCHOSES - ICD9 296 OR BIPOLAR CHECKOFF PARANOID STATES - ICD 297 OTHER NONORGANIC PSYCHOSES - ICD 298 PERSONALITY DISORDERS - ICD 301 OTHER ORGANIC PSYCHOTIC CONDIT - ICD 294 PSYCHOSES ORIGIN CHILDHOOD - ICD 299 ANOREXIA, SLEEP DISORD, EATING DISORD - ICD9 307.1 307.4 307.4 ORGANIC BRAIN DAMAGE - ICD9 310 DEPRESSIVE DISORD - (ICD9 OR CHECKBOX) *AND* DRS>=2  Includes both SMI residents (as indicated by MDS) and residents on Mental Health units.  The number reported is based on MDS only.
Schizophrenia	if fsminon_schiz = 1 then smi_schz = 1;	smi_schz	<u>ICD-9 codes are based on section I3 in MDS 2.0:</u> SCHIZOPHRENIA - ICD9 295 OR SCHIZOPHR OR DELUSIONS OR HALLUCIN
Bipolar	if fsminon_bipolar = 1 then smi_bip = 1;	smi_bip	<u>ICD-9 codes are based on section I3 in MDS 2.0:</u> AFFECTIVE PSYCHOSES - ICD9 296 OR BIPOLAR CHECKOFF
Other	if fsminon_other = 1 then smi_oth = 1;	smi_oth	<u>ICD-9 codes are based on section I3 in MDS 2.0:</u> DRUG OR ALCOHOL PSYCHOSES/DEPENDENCE/NONDEP - ICD9 291-292,303-305 PARANOID STATES - ICD 297 OTHER NONORGANIC PSYCHOSES - ICD 298 PERSONALITY DISORDERS - ICD 301 OTHER ORGANIC PSYCHOTIC CONDIT - ICD 294 PSYCHOSES ORIGIN CHILDHOOD - ICD 299 ANOREXIA, SLEEP DISORD, EATING DISORD - ICD9 307.1 307.4 307.4 ORGANIC BRAIN DAMAGE - ICD9 310 DEPRESSIVE DISORD - (ICD9 OR CHECKBOX) *AND* DRS>=2
Verbal physical abuse	if e4ba= 3 and e4bb = 1 then verbal3 = 1; if e4ca= 3 and e4cb = 1 then physical3 = 1; if verbal3=1 or physical3 = 1 then verbphys3 = 1;	verbphys 3	
Respiratory	if p1bda = 7 then respir7 = 1;	respir7	

Special Population	SAS code excerpt	SAS code var name	Notes
Therapy			
Suctioning	if p1ai = 1 then suction = 1;	suction	
Burns	if m4b = 1 then burns = 1;	burns	
Chemotherapy	if p1aa = 1 then chemo = 1;	chemo	
Ventilator	if p1al = 1 and unit_type ne 7 then vent = "10"; if p1al ne 1 and unit_type = 7 then vent = "01"; if p1al = 1 and unit_type = 7 then vent = "11";	vent	Includes both ventilator residents (as indicated by MDS) and residents on Ventilator units.  The number reported is based on MDS only.
Traumatic Brain Injury (TBI)	if i1cc = 1 and unit_type ne 8 then tbi="10"; if i1cc ne 1 and unit_type = 8 then tbi="01"; if i1cc = 1 and unit_type = 8 then tbi="11"; *added JCD (15-nov-07), count of MDS item or on TBI unit;	tbi	Includes both TBI residents (as indicated by MDS) and residents on TBI units.  The number reported is based on MDS only.
Wound care	if m5f = 1 then wounds = 1;	wounds	
Dialysis	if p1ab = 1 then dialysis = 1;	dialysis	
Hospice	if p1ao = 1 then hospice = 1;	hospice	
Bariatric	if k2b >=300 and sBMI ne . then bariatric=1;	bariatric	
Behavior	if srughier53 /*rug53_hr*/ in('BA1','BA2') then bam = 1; if srughier53 /*rug53_hr*/ in('BB1','BB2') then bbm = 1;	bam; bbm	
Pain	if j2a >=1 then pain_pop=1;	pain_pop	
Palliative	if j5c = 1 or p1ao=1 then palliative=1;	palliative	

**Table 30. Frequency of Special Populations**

(with RPT overlay- though not ALL ICD-9 codes are used)

\*only those with full nursing days

Special Population	N	% (of 9721)
Obese: BMI >=30^	2261	23%
Morbidly Obese: BMI >=40^	392	4%
Bariatric resident (weight(k2b) >=300lbs)	72	1%
Alzheimer	1313	14%
Intellectual Disability	236	2%
Schizophrenia	679	7%
Bipolar	279	3%
Other Severe Mental Illness	2045	21%
Verbally and/or Physically abusive daily	59	1%
SMI	3003	31%
Deaf (c1)	935	10%
Blind (d1)	870	9%
Deaf/ Blind	169	2%
Age<=18yrs	5	0%
Ages 19-40yrs	133	1%
Ages 41-64yrs	1324	14%
Receiving Respiratory therapy for 7 days (p1bda)	329	3%
Receiving suctioning (p1ai)	362	4%
2 <sup>nd</sup> /3 <sup>rd</sup> degree burns (m4b)	30	0%
Receiving chemotherapy (p1aa)	49	1%
Receiving surgical wound care (m5f)	653	7%
Dialysis (p1ab)	176	2%
Hospice care (p1ao)	282	3%
In palliative care (j5c or p1ao)	370	4%
Ventilator	239	2%
TBI	112	1%
RUG-53 group BA1 or BA2	55	1%
RUG-53 group BB1 or BB2	18	0%
RUG-53 group: Rehab+Extensive	655	7%

^ only those with "valid" BMI as well (10<=BMI<=60)

**Table 31. Special Units & MDS**

	MDS	Unit	MDS or Unit	MDS AND Unit
AIDS**	253	133^^	259	128^^
Alzheimer	1313	365	1524	154
SMI	3003	144	3059	88
Vent	239	335	403	171
TBI	112	26	121	17

\*\*States with AIDS units in STRIVE study: NY

^^ Of the 5 people who are on AIDS units but had a MDS that did not indicate AIDS, 4 people had AIDS based on nearest RPT (mistake on STRIVE?)

SMI includes:

- DRUG OR ALCOHOL PSYCHOSES/ DEPENDENCE/ NONDEP
- SCHIZOPHRENIA
- AFFECTIVE PSYCHOSES (including bipolar)
- PARANOID STATES
- OTHER NONORGANIC PSYCHOSES
- PERSONALITY DISORDERS
- OTHER ORGANIC PSYCHOTIC CONDIT
- PSYCHOSES ORIGIN CHILDHOOD
- ANOREXIA, SLEEP DISORD, EATING DISORD
- ORGANIC BRAIN DAMAGE
- DEPRESSIVE DISORD - (ICD9 OR CHECKBOX) \*AND\* DRS>=2

# A-13: Average Wage and Salary Data for Occupational Categories Identified During STRIVE

## Potential Sources for Data

### 1. Acute Inpatient Prospective Payment System Occupational Mix Survey

Section 304(c) of Public Law 106-554 amended section 1886(d)(3)(E) of the Act to require CMS to collect data every 3 years on the occupational mix of employees for each short-term, acute care hospital participating in the Medicare program, in order to construct an occupational mix adjustment to the wage index.

This survey is used for employees that are full-time and part-time, directly hired, and acquired under contract. It does not include employees in areas excluded from IPPS, such as skilled-nursing facilities, psychiatric, or rehabilitation units or facilities, in the 19 specific categories, or the "all other" category. It also excludes employees that are allocated from the home office.

The occupational categories and definitions included in this survey derive directly from the U. S. Bureau of Labor Statistics (BLS), 2001 Occupational Employment Statistics survey. The survey uses the BLS standard occupational categories (SOCs). As with the BLS survey, workers should be classified in the occupation that requires their highest level of skill. If there is no measurable difference in skills, workers are to be included in the occupation in which they spend the most time.

**Disadvantages:** Includes only hospital workers and only nursing staff types

### 2. Bureau of Labor Statistics (BLS) National Compensation Survey (NCS)

The BLS NCS provides quarterly data measuring level of average costs per hour worked as part of the Employer Cost for Employee Compensation (ECEC) product.

The ECEC product is a quarterly survey that shows the employers' average hourly cost for total compensation and its components. Its key features include

Shows compensation costs as a total, and broken out by:

- Wages and salaries
- Total benefit costs
- Separate benefit costs for broad benefit categories such as paid leave, supplemental pay, insurance, retirement and savings, and legally required benefits
- Separate benefit costs for detailed benefits such as paid holidays, health insurance, defined benefit pension, and workers' compensation
- Uses current weights to reflect today's labor force composition
- Provides cost data in dollar amounts and as percentages of compensation

Breaks out data on:

- Civilian workers and State and local government workers into estimates for occupational and industry groups
- Private industry workers by major occupation, industry, region, union and nonunion status, establishment size, and full- or part-time status

**Disadvantages:** Doesn't provide national averages, not broken down into North American Industry Classification System (NAICS) categories and therefore not very specific to nursing homes

### 3. BLS Occupational Employment Statistics (OES)

The OES program conducts a semi-annual mail survey designed to produce estimates of employment and wages for specific occupations. The OES program collects data on wage and salary workers in nonfarm establishments in order to produce employment and wage estimates for about 800 occupations. Data from self-employed persons are not collected and are not included in the estimates. The OES program produces these occupational estimates by [geographic area](#) and by [industry](#). Estimates based on geographic areas are available at the National, State, and Metropolitan Area levels. The BLS produces occupational employment and wage estimates for over 450 industry classifications at the national level. The industry classifications correspond to the sector, 3, 4, and 5-digit North American Industry Classification System (NAICS) industrial groups. The OES survey covers all full-time and part-time wage and salary workers in nonfarm industries. Surveys collect data for the payroll period

including the 12th day of May or November. The employment data are benchmarked to an average of the May and November employment levels. The most recent wage data are for May 2005. The OES survey began using the North American Industry Classification System (NAICS) in 2002. Data prior to 2002 are based on the Standard Industrial Classification (SIC) system.

The May 2005 OES estimates are benchmarked to the average of the May 2005 and November 2004 reference periods. May 2005 employment and wage estimates are based on all data collected from establishments in the May 2005, November 2004, May 2004, November 2003, May 2003, and November 2002 semi-annual samples. Wages for the current panel, May 2005, need no adjustment. However, wages in the five previous panels were adjusted to the May 2005 reference period by using the over-the-year wage changes in the most applicable national Employment Cost Index series.

The OES program surveys approximately 200,000 establishments per panel (every six months), taking three years to fully collect the sample of 1.2 million establishments. To reduce respondent burden, the collection is on a three-year survey cycle that ensures that establishments are surveyed at most once every three years. The estimates for occupations in nonfarm establishments are based on OES data collected for the reference months of May and November.

The OES survey is a Federal-State cooperative program between the BLS and State Workforce Agencies (SWAs). BLS provides the procedures and technical support, draws the sample, and produces the survey materials, while the SWAs collect the data. SWAs from all fifty States, plus the District of Columbia, Puerto Rico, Guam, and the Virgin Islands participate in the survey. Occupational employment and wage rate estimates at the national level are produced by BLS using data from the fifty States and the District of Columbia. Employers who respond to States' requests to participate in the OES survey make these estimates possible.

The survey does not cover the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers.

**Disadvantages:** Wages and salaries only, no additional compensation or benefits.

#### **Approaches for BLS OES Data**

- For the FY 2008 SNF PPS, CMS' Office of the Actuary (OACT) has proposed using the percentage change of a blended index based on 50 percent of the Economic Cost Index (ECI) for wages and salaries for nursing and residential care facilities (NAICS 623) and 50 percent of the ECI for wages and salaries for hospital workers (NAICS 622) to measure the price growth in the wages and salaries cost component of the proposed 2004-based SNF market basket.
- Within NAICS 623 is NAICS 623100, nursing care facilities engaged in providing inpatient nursing and rehabilitative services. These facilities, which are most comparable to Medicare-certified SNFs, provide skilled nursing and continuous personal care services for an extended period of time and therefore, have a permanent core staff of registered or licensed practical nurses. BLS began publishing ECI data for NAICS 623100 beginning with 2006. In order for OACT to forecast the price growth in the wages and salaries cost component of the market basket, it is necessary to have enough historical data to confidently provide economic forecasts that are accurate. Because the NAICS 623100 data does not provide enough historical data (there is no direct match to previous SIC codes), OACT must consider alternative price proxies including using a blend of NAICS 623 and 622. However, since we only need a point in time estimate, NAICS 623100 may prove to be more representative.

#### **4. Hospital & Healthcare Compensation Service 2006-2007 AAHSA Nursing Home Salary and Benefits Report**

This option is still under evaluation. There's not enough information on the website to make a complete determination on the feasibility.

<http://hhcsinc.com/surveys.php>

Published in cooperation with the American Association of Homes and Services for the Aging (AAHSA), the Report covers salary and bonus data on 42 management, and 41 nursing, therapy, dietary, and clerical positions. All data are reported according to bed-size, for-profit or not-for-profit status and geographic region or state. The survey includes data on 22 fringe benefits, along with bonus information. The report is based on 2,522 providers.

### **CCRC & Nursing Home Job Titles**

Executive Director (CCRC)	Social Service Director
Associate Director (CCRC)	Staff Nurse (RN)
Nursing Home Administrator	Charge Staff Nurse (RN)
Nursing Home Assistant Administrator	Practical Nurse (LPN)
Director of Assisted Living	Charge Nurse (LPN)
Residential Administrator	Nurse Practitioner
Director of Hospice	Certified Nurse Aide
Chief Financial Officer	Non-Certified Nurse Aide
Controller	Certified Medication Technician
Compliance Officer	Nutrition and Hydration Assistant
Director of Human Resources	Activity Aide
Director of Development	Occupational Therapist
Director of Marketing	Occupational Therapy Aide
Director of Therapy/Rehabilitation	Occupational Therapy Assistant (COTA)
Director of Nurses	Physical Therapist
Assistant Director of Nurses	Physical Therapy Assistant (LPTA)
Nursing Supervisor (RN)	Physical Therapy Aide
Head Nurse (RN)	Respiratory Therapist
Nursing Supervisor (LPN)	Speech Therapist/Language Pathologist
Director of Staff Development	Housekeeping & Laundry Aide
MDS Coordinator	Maintenance Helper
Activity Director	Maintenance Mechanic I
Director of Dining/Food Services (Graduate Dietitian)	Maintenance Mechanic II
Assistant Director of Dining/Food Services (Graduate Dietitian)	Security Guard
Director of Dining/Food Services (Not a Graduate Dietitian)	Registered Clinical Dietitian
Assistant Director of Dining/Food Services (Not a Graduate Dietitian)	Dining Room Supervisor
Director of Environmental Services	Chef/Kitchen Manager
Security Supervisor	Chef
Housekeeping & Laundry Supervisor	Sous Cook
Laundry Supervisor	Cook
Housekeeping Supervisor	Dietary Aide
Maintenance Supervisor	Waitperson
Director of Purchasing	Hostess
Network Administrator	Business Office Manager
Director of Pastoral Services	Accounts Payable Clerk
Marketing Representative	Accounts Receivable Clerk
Marketing Coordinator	Clerk I
Admissions Coordinator	Clerk II
Director of Resident & Facility Service	Payroll Clerk
Medical Social Worker, M.S.W.	Executive Assistant
Social Service & Activity Director	Administrative Assistant
	Receptionist

## A-14: Wage Weighting Decisions

The following tables were used to make decisions regarding wage weights.

### Abbreviations Used:

BLS: Bureau of Labor Statistics

OES= Occupation and Employment Survey

AAHSA= American Association of Homes and Services for the Aging

Table 32 shows:

- 1) the job roles used in STRIVE to collect time data, the closest job title match available from BLS/OES, and the closest job title match available from AAHSA
- 2) the mean and median wages from BLS/OES and AAHSA (at the time BLS/OES 2005 was available)

It was ultimately decided to use BLS/OES wages because they were more complete and the documentation and data were publicly available. Also it appeared that there were very few differences between BLS/OES and AAHSA.

(NOTE: To fit the page width, the Compare Wage Sources table is presented here as two tables, Table 32 and Table 22, with the first column common to each.)

**Table 32. Compare Wage Sources (Adjusted to 2006 dollars)**

STM Job title (see "descrip" for color coding)	% of total time	Mean RST (min)	Mean RST - nonzero (min)	BLS/OES Data			AAHSA			Earlier time studies		
				The Standard Occupational Classification title for the occupation	Inflation adjusted (1.03) Mean Hourly wage	Inflation adjusted (1.03) Medin Hourly wage	Nursing Home Salary & Benefits Report	Mean of Hourly rate reported	Median of hourly range reported	Earlier time studies	1993, US Mean of Hourly rate reported (inflated by 1.53)	1996, US Mean of hourly range reported for jobs (inflated by 1.51)
?	--	--	--	--	--	--	--	--	--	Nurse Supervisor	\$23.56	\$24.92
CNA GNA RCT	48.47%	75	75	Nursing aides, orderlies and attendants	\$10.64	\$10.37	Certified Nurse Aide	\$10.48	\$10.40	Nursing Asst	\$9.36	\$10.04
LPN/LVN (LVN=Licensed Vocational Nurse)	14.71%	23	24	Licensed practical and licensed vocational nurses	\$18.60	\$18.32	Nursing Supervisor (LPN)	\$19.85	\$19.10	Head Charge LPN	\$16.80	\$18.53
							Practical Nurse (LPN)	\$18.61	\$18.12	LPN Staff	\$17.76	\$18.20
							Charge Nurse (LPN)	\$18.31	\$17.65	Head Charge Staff LPN	\$17.58	\$19.80
RN	12.09%	18	24	Registered Nurses	\$25.50	\$24.98	Staff Nurse (RN)	\$24.53	\$24.07	RN Staff	\$23.90	\$23.96
							Charge Staff Nurse (RN)	\$24.09	\$23.43	Head Charge Staff RN	\$24.43	\$24.11
							Nursing Supervisor (RN)	\$25.72	\$25.04	?	--	--
							Head Nurse (RN)	\$23.39	\$22.65	Head	\$24.02	\$23.86

STM Job title (see "descrip" for color coding)	% of total time	Mean RST (min)	Mean RST - nonzero (min)	BLS/OES Data			AAHSA			Earlier time studies		
				The Standard Occupational Classification title for the occupation	Inflation adjusted (1.03) Mean Hourly wage	Inflation adjusted (1.03) Medin Hourly wage	Nursing Home Salary & Benefits Report	Mean of Hourly rate reported	Median of hourly range reported	Earlier time studies	1993, US Mean of Hourly rate reported (inflated by 1.53)	1996, US Mean of hourly range reported for jobs (inflated by 1.51)
										Charge RN		
Act Aide	5.36%	8	18	?	--	--	Activity Aide	\$10.48	\$10.24	?	--	--
Respiratory Therapist	2.47%	4	68	Respiratory Therapists	\$23.19	\$22.71	Respiratory Therapist	\$22.62	\$22.28	?	--	--
CMA	2.29%	3	12	?	--	--	Certified Medication Technician	\$11.46	\$11.09	Qual Medical aide(med aide)	\$10.24	\$10.89
SW (Social Worker)	1.99%	3	11	Social Workers, all other	\$19.33	\$18.55	Medical Social Worker, M.S.W.	\$19.90	\$19.42	?	--	--
PT	1.72%	3	13	Physical Therapists	\$32.05	\$32.02	Physical Therapist	\$33.61	\$33.00	?	--	--
PT Assistant	1.70%	3	15	Physical Therapy Assistants	\$20.79	\$20.91	Physical Therapy Assistant (LPTA)	\$22.59	\$22.58	?	--	--
<b>Rest Aide</b>	1.62%	2	14	75th percentile CNA wage?	\$12.30	--	?	--	--	?	--	--
OT	1.34%	2	13	Occupational Therapists	\$29.95	\$29.34	Occupational Therapist	\$29.97	\$29.65	?	--	--
COTA (OT assistant)	1.24%	2	17	Occupational Therapist assistant	\$20.12	\$20.31	Occupational Therapy Assistant (COTA)	\$21.08	\$21.00	?	--	--
Act Director	1.03%	2	6	?	--	--	Activity Director	\$15.74	\$15.01	?	--	--
Dietician	0.81%	1	10	Dieticians and nutritionists	\$22.63	\$22.17	Registered Clinical Dietitian	\$24.00	\$23.37	?	--	--
SLP (Speech Language Pathologist)	0.74%	1	16	Speech Language Pathologists	\$33.55	\$32.85	Speech Therapist/Language Pathologist	\$31.70	\$30.84	?	--	--
<b>Acupuncturist</b>	0.34%	0	11	?	?	--	?	--	--	?	--	--
OT Aide	0.31%	0	16	Occupational Therapist aides	\$13.55	\$12.51	Occupational Therapy Aide	\$17.17	\$15.45	?	--	--
Rec Therapist	0.28%	0	12	Recreational Therapist	\$15.14	\$14.43	?	--	--	?	--	--
<b>Thpy Transport</b>	0.28%	0	23	25th percentile CNA wage?	\$8.90	--	?	--	--	?	--	--
PT Aide	0.26%	0	10	Physical Therapist Aides	\$12.20	\$11.58	Physical Therapy Aide	\$11.76	\$11.50	?	--	--
SS Aide (Social Services Aide)	0.19%	1	13	Social and human service assistants	\$14.23	\$13.19	?	--	--	?	--	--
SS Director (Social Services	0.17%	0	8	?	--	--	Social Service & Activity Director	\$17.72	\$17.23	?	--	--

STM Job title (see "descrip" for color coding)	% of total time	Mean RST (min)	Mean RST - nonzero (min)	BLS/OES Data			AAHSA			Earlier time studies		
				The Standard Occupational Classification title for the occupation	Inflation adjusted (1.03) Mean Hourly wage	Inflation adjusted (1.03) Medin Hourly wage	Nursing Home Salary & Benefits Report	Mean of Hourly rate reported	Median of hourly range reported	Earlier time studies	1993, US Mean of Hourly rate reported (inflated by 1.53)	1996, US Mean of hourly range reported for jobs (inflated by 1.51)
Director)							Social Service Director	\$18.97	\$18.26	?	--	--
Admin (Administrator, assistants, secretary)	0.15%	0	18	?	--	--	Administrative Assistant	\$14.15	\$13.91	?	--	--
							Residential Administrator	\$24.25	\$21.97	?	--	--
							Accounts Payable Clerk	\$14.10	\$13.75	?	--	--
							Accounts Receivable Clerk	\$14.70	\$14.39	?	--	--
							Admissions Coordinator	\$19.15	\$18.57	?	--	--
							Business Office Manager	\$19.09	\$18.51	?	--	--
							Clerk I	\$12.16	\$11.69	?	--	--
							Clerk II	\$13.30	\$13.10	?	--	--
Feeding Aide	0.14%	0	7	?	--	--	Executive Assistant	\$18.21	\$17.68	?	--	--
							Dietary Aide	\$8.60	\$8.39	?	--	--
Non certif care tech	0.13%	0	9	?	--	--	Non-Certified Nurse Aide	\$8.99	\$8.85	?	--	--
Clergy	0.10%	0	7	Clergy	\$18.97	\$18.21	?	--	--	?	--	--
Nurse Admin (Administrative nurses - DON, ADON, QA)	0.07%	0	16	?	--	--	Nursing Home Administrator	\$39.07	\$38.46	?	--	--
							Nursing Home Asst. Administrator	\$26.51	\$25.77	?	--	--
<b>Bath Aide</b>	0.00%	0	0	25th percentile CNA wage?	\$8.90	--	?	--	--	?	--	--
Psych Aide	0.00%	0	0	Psychiatric Aides	\$10.66	\$10.67	?	--	--	?	--	--
<b>Transportation</b>	0.00%	0	0	25th percentile CNA wage?	\$8.90	--	?	--	--	?	--	--
<b>Therapy Aide</b>	0.00%	0	0	75th percentile CNA wage?	\$12.30	--	?	--	--	?	--	--
Respiratory Therapy Assistant	0.00%	0	0	Respiratory therapy technicians	\$16.41	\$16.75	?	--	--	?	--	--
<b>Psych Therapy</b>	0.00%	0	0	drop?	--	--	?	--	--	?	--	--
<b>Rec Therapist-A</b>	0.00%	0	0	mean CNA wage?	\$10.64	--	?	--	--	?	--	--
Audiologist	0.00%	0	0	Audiologist	\$28.55	\$26.49	?	--	--	?	--	--
Physician	0.00%	0	0	Physicians and	\$64.29	\$64.96	?	--	--	?	--	--

STM Job title (see "descrip" for color coding)	% of total time	Mean RST (min)	Mean RST - nonzero (min)	BLS/OES Data			AAHSA			Earlier time studies		
				The Standard Occupational Classification title for the occupation	Inflation adjusted (1.03) Mean Hourly wage	Inflation adjusted (1.03) Medin Hourly wage	Nursing Home Salary & Benefits Report	Mean of Hourly rate reported	Median of hourly range reported	Earlier time studies	1993, US Mean of Hourly rate reported (inflated by 1.53)	1996, US Mean of hourly range reported for jobs (inflated by 1.51)
				surgeons, all other								
Nurse Practitioner	0.00%	0	0	?	--	--	Nurse Practitioner	\$35.35	\$35.26	?	--	--
Physician Assistant	0.00%	0	0	Physician Assistants	\$33.63	\$36.63	?	--	--	?	--	--
<b>Clinical Associate</b>	na	na	na	?	?	--	--	--	--	?	--	?
<b>Dialysis Technician</b>	na	na	na	?	?	--	--	--	--	?	--	?
<b>GED counselor</b>	na	na	na	drop?	--	--	--	--	--	?	--	?

**Total** 100.00%  
**Total minutes** 169798 (10% STRIVE sample)

Table 33. Compare Wage Sources – Part 2

STM Job title	Cost using RST						Cost using nonzero RST					
	BLS Inflation adjusted to CPI (1.03)		AAHSA		Earlier		BLS Inflation adjusted to CPI (1.03)		AAHSA		Earlier	
	Cost (mean wage)	Cost (median wage)	Cost (mean wage)	Cost (median wage)	1993 Cost (mean wage)	1996 Cost (mean wage)	Cost (mean wage)	Cost (median wage)	Cost (mean wage)	Cost (median wage)	1993 Cost (mean wage)	1996 Cost (mean wage)
?	--	--	--	--	--	--	--	--	--	--	--	--
CNA GNA RCT	\$13.30	\$12.97	\$13.10	\$13.00	\$11.70	\$12.55	\$13.30	\$12.97	\$13.10	\$13.00	\$11.70	\$12.55
LPN/LVN (LVN=Licensed Vocational Nurse)	\$7.13	\$7.02	\$7.61	\$7.32	\$6.44	\$7.10	\$7.44	\$7.33	\$7.94	\$7.64	\$6.72	\$7.41
			\$7.13	\$6.95	\$6.81	\$6.97			\$7.44	\$7.25	\$7.11	\$7.28
			\$7.02	\$6.77	\$6.74	\$7.59			\$7.32	\$7.06	\$7.03	\$7.92
RN	\$7.65	\$7.49	\$7.36	\$7.22	\$7.17	\$7.19	\$10.20	\$9.99	\$9.81	\$9.63	\$9.56	\$9.59
			\$7.23	\$7.03	\$7.33	\$7.23			\$9.64	\$9.37	\$9.77	\$9.65
			\$7.72	\$7.51	--	--			\$10.29	\$10.02	--	--
			\$7.02	\$6.80	\$7.21	\$7.16			\$9.36	\$9.06	\$9.61	\$9.54
Act Aide	--	--	\$1.40	\$1.37	--	--	--	--	\$3.14	\$3.07	--	--
Respiratory Therapist	\$1.55	\$1.51	\$1.51	\$1.49	--	--	\$26.28	\$25.74	\$25.64	\$25.25	--	--
CMA	--	--	\$0.57	\$0.55	\$0.51	\$0.54	--	--	\$2.29	\$2.22	\$2.05	\$2.18
SW (Social Worker)	\$0.97	\$0.93	\$1.00	\$0.97	--	--	\$3.54	\$3.40	\$3.65	\$3.56	--	--
PT	\$1.60	\$1.60	\$1.68	\$1.65	--	--	\$6.94	\$6.94	\$7.28	\$7.15	--	--
PT Assistant	\$1.04	\$1.05	\$1.13	\$1.13	--	--	\$5.20	\$5.23	\$5.65	\$5.65	--	--
<b>Rest Aide</b>	--	--	--	--	--	--	--	--	--	--	--	--
OT	\$1.00	\$0.98	\$1.00	\$0.99	--	--	\$6.49	\$6.36	\$6.49	\$6.42	--	--
COTA (OT assistant)	\$0.67	\$0.68	\$0.70	\$0.70	--	--	\$5.70	\$5.75	\$5.97	\$5.95	--	--
Act Director	--	--	\$0.52	\$0.50	--	--	--	--	\$1.57	\$1.50	--	--
Dietician	\$0.38	\$0.37	\$0.40	\$0.39	--	--	\$3.77	\$3.69	\$4.00	\$3.90	--	--
SLP (Speech Language Pathologist)	\$0.56	\$0.55	\$0.53	\$0.51	--	--	\$8.95	\$8.76	\$8.45	\$8.22	--	--
<b>Acupuncturist</b>	--	--	--	--	--	--	--	--	--	--	--	--
OT Aide	\$0.00	\$0.00	\$0.00	\$0.00	--	--	\$3.61	\$3.34	\$4.58	\$4.12	--	--
Rec Therapist	\$0.00	\$0.00	--	--	--	--	\$3.03	\$2.89	--	--	--	--
<b>Thpy Transport</b>	--	--	--	--	--	--	--	--	--	--	--	--
PT Aide	\$0.00	\$0.00	\$0.00	\$0.00	--	--	\$2.03	\$1.93	\$1.96	\$1.92	--	--
SS Aide (Social Services Aide)	\$0.24	\$0.22	--	--	--	--	\$3.08	\$2.86	--	--	--	--
SS Director (Social Services Director)	--	--	\$0.00	\$0.00	--	--	--	--	\$2.36	\$2.30	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$2.53	\$2.43	--	--
Admin (Administrator, assistants, secretary)	--	--	\$0.00	\$0.00	--	--	--	--	\$4.25	\$4.17	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$7.28	\$6.59	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$4.23	\$4.13	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$4.41	\$4.32	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$5.75	\$5.57	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$5.73	\$5.55	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$3.65	\$3.51	--	--
	--	--	\$0.00	\$0.00	--	--	--	\$3.99	\$3.93	--	--	

STM Job title	Cost using RST						Cost using nonzero RST					
	BLS Inflation adjusted to CPI (1.03)		AAHSA		Earlier		BLS Inflation adjusted to CPI (1.03)		AAHSA		Earlier	
	Cost (mean wage)	Cost (median wage)	Cost (mean wage)	Cost (median wage)	1993 Cost (mean wage)	1996 Cost (mean wage)	Cost (mean wage)	Cost (median wage)	Cost (mean wage)	Cost (median wage)	1993 Cost (mean wage)	1996 Cost (mean wage)
	--	--	\$0.00	\$0.00	--	--	--	--	\$5.46	\$5.30	--	--
Feeding Aide	--	--	\$0.00	\$0.00	--	--	--	--	\$1.00	\$0.98	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$1.10	\$1.04	--	--
Non certif care tech	--	--	\$0.00	\$0.00	--	--	--	--	\$1.35	\$1.33	--	--
Clergy	\$0.00	\$0.00	--	--	--	--	\$2.21	\$2.12	--	--	--	--
Nurse Admin (Administrative nurses - DON, ADON, QA)	--	--	\$0.00	\$0.00	--	--	--	--	\$10.42	\$10.26	--	--
	--	--	\$0.00	\$0.00	--	--	--	--	\$7.07	\$6.87	--	--
<b>Bath Aide</b>	--	--	--	--	--	--	--	--	--	--	--	--
Psych Aide	\$0.00	\$0.00	--	--	--	--	\$0.00	\$0.00	--	--	--	--
<b>Transportation</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>Therapy Aide</b>	--	--	--	--	--	--	--	--	--	--	--	--
Respiratory Therapy Assistant	\$0.00	\$0.00	--	--	--	--	\$0.00	\$0.00	--	--	--	--
<b>Psych Therapy</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>Rec Therapist-A</b>	--	--	--	--	--	--	--	--	--	--	--	--
Audiologist	--	--	--	--	--	--	--	--	--	--	--	--
Physician	\$0.00	\$0.00	--	--	--	--	\$0.00	\$0.00	--	--	--	--
Nurse Practitioner	--	--	\$0.00	\$0.00	--	--	--	--	\$0.00	\$0.00	--	--
Physician Assistant	\$0.00	\$0.00	--	--	--	--	\$0.00	\$0.00	--	--	--	--
<b>Clinical Associate</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dialysis Technician</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>GED counselor</b>	--	--	--	--	--	--	--	--	--	--	--	--

**Table 34. Comparison of Mean and Median Wages**

Table 34 compares the mean, median and specific percentiles of hourly wages from 2006 BLS/OES, that correspond to the wage associated with the STRIVE job role.

**20-Sep-07**

Updated with 50% STM data, on residents with MDS (n=4787)

Job title (n=41)	Absolute cost diff	Decision*	Mean Effect			Median (final hourly wage) Effect			CMS comments
			Mean time (min)	Hourly Wage (2006\$)	per diem cost	Mean time (min)	Hourly Wage (2006\$)	per diem cost	
CNA/GNA/RCT	\$0.31	Use BLS	68.95	\$10.64	\$12.23	68.95	\$10.37	\$11.92	
RN	\$0.18	Use BLS	20.17	\$25.50	\$8.57	20.17	\$24.98	\$8.40	
LPN/LVN	\$0.11	Use BLS	24.47	\$18.60	\$7.59	24.47	\$18.32	\$7.47	
SW	\$0.04	Use BLS	2.88	\$19.33	\$0.93	2.88	\$18.55	\$0.89	
OT	\$0.03	Use BLS	2.80	\$29.95	\$1.40	2.80	\$29.34	\$1.37	
Activity Director	\$0.03	Use mean Rec therapist wage	2.30	\$15.14	\$0.58	2.30	\$14.43	\$0.55	
Respiratory Thpy	\$0.02	Use BLS	2.17	\$23.19	\$0.84	2.17	\$22.71	\$0.82	
SLP	\$0.02	Use BLS	1.46	\$33.55	\$0.82	1.46	\$32.85	\$0.80	
Activity Aide	\$0.02	Use mean CNA wage	3.41	\$10.64	\$0.60	3.41	\$10.37	\$0.59	
SS director	\$0.01	Use SW wage	1.15	\$19.33	\$0.37	1.15	\$18.55	\$0.35	
Dieticians	\$0.01	Use BLS	1.51	\$22.63	\$0.57	1.51	\$22.17	\$0.56	
SS aide	\$0.01	Use BLS	0.56	\$14.23	\$0.13	0.56	\$13.19	\$0.12	
COTA	\$0.01	Use BLS	2.02	\$20.12	\$0.68	2.02	\$20.31	\$0.68	
PT aide	\$0.01	Use BLS	0.60	\$12.20	\$0.12	0.60	\$11.58	\$0.12	
CMA	\$0.01	Use mean CNA wage	1.37	\$10.64	\$0.24	1.37	\$10.37	\$0.24	OCSQ classifies CMAs as CNAs
PT assistant	\$0.01	Use BLS	2.96	\$20.79	\$1.03	2.96	\$20.91	\$1.03	
Therapy transport	\$0.00	Use the avg of PT & OT aides	0.23	\$12.87	\$0.05	0.23	\$12.05	\$0.05	We're assuming that most of the time the person transporting is an aide
OT aide	\$0.00	Use BLS	0.17	\$13.55	\$0.04	0.17	\$12.51	\$0.03	
Rec Thpy	\$0.00	Use BLS	0.22	\$15.14	\$0.06	0.22	\$14.43	\$0.05	
Nurse Admin	\$0.00	Use RN wage	0.23	\$25.50	\$0.10	0.23	\$24.98	\$0.09	Most of the time spent providing non-admin functions would probably be spent doing CNA type functions
Admin	\$0.00	Use mean CNA wage	0.38	\$10.64	\$0.07	0.38	\$10.37	\$0.07	
PT	\$0.00	Use BLS	3.14	\$32.05	\$1.68	3.14	\$32.02	\$1.68	
Therapy aide	\$0.00	Use the avg of PT & OT aides	0.07	\$12.87	\$0.02	0.07	\$12.05	\$0.01	assume therapy aide and discipline unspecified
Rec therapist- Aide	\$0.00	Use mean CNA wage	0.18	\$10.64	\$0.03	0.18	\$10.37	\$0.03	
Audiologist	\$0.00	use BLS	0.01	\$28.55	\$0.01	0.01	\$26.49	\$0.00	If BLS data is available, use it
Resp thpy assistant	\$0.00	Use BLS	0.03	\$16.41	\$0.01	0.03	\$16.75	\$0.01	
Physician	\$0.00	Use BLS, but may leave out	0.01	\$64.29	\$0.01	0.01	\$64.96	\$0.01	
Nurse Practitioner	\$0.00	Use mean RN wage, but may leave out	0.00	\$25.50	\$0.00	0.00	\$24.98	\$0.00	
Physician Assistants	\$0.00	Use BLS, but may leave out	0.00	\$33.63	\$0.00	0.00	\$36.63	\$0.00	
Psych aide	\$0.00	Use BLS	0.00	\$10.66	\$0.00	0.00	\$10.67	\$0.00	
Non-certified care tech	--	Use 25th percentile CNA wage	2.21	\$8.99	\$0.33	2.21	\$8.99	\$0.33	Suggest treating all non-certified aides the same
Rest aide	--	Use 75 <sup>th</sup> percentile CNA wage (BLS/OES)	1.82	\$12.30	\$0.37	1.82	\$12.30	\$0.37	Agree with UM's suggestion
Feeding Aide	--	Use 25th percentile CNA wage	0.16	\$8.90	\$0.02	0.16	\$8.90	\$0.02	Suggest treating all non-certified aides the

Job title (n=41)	Absolute cost diff	Decision*	Mean Effect			Median (final hourly wage) Effect			CMS comments
			Mean time (min)	Hourly Wage (2006\$)	per diem cost	Mean time (min)	Hourly Wage (2006\$)	per diem cost	
Transportation	--	Use 25th percentile CNA wage	0.13	\$8.90	\$0.02	0.13	\$8.90	\$0.02	same
Bath aide	--	Use 25th percentile CNA wage	0.13	\$8.90	\$0.02	0.13	\$8.90	\$0.02	
Dialysis Technician	--	Eliminate from analysis (few minutes)	0.00	--	--	0.00	--	--	
Clergy	--	Eliminate from analysis (few minutes, usually volunteer)	0.06	--	--	0.06	--	--	
Clinical Associate	--	Eliminate from analysis (few minutes), but may use mean CNA wage	0.01	--	--	0.01	--	--	
GED counselor	--	Eliminate from analysis (not part A)	0.00	--	--	0.00	--	--	
Psych Therapy	--	Eliminate from analysis (not part A)	0.00	--	--	0.00	--	--	
Acupuncturist	--	Eliminate from analysis (not part A)	0.17	--	--	0.17	--	--	

\*if not specified, wage is from BLS/OES

**Table 35. Comparison of Mean and Median Wages (Non-Zero Time)**

Table 35 shows the approximate "cost" using 50% of the STRIVE sample (only 50% of the STRIVE sample was available at the time that wages were analyzed)

20-Sep-07

Updated with 50% STM data, on residents with MDS (n=4787)

Job title (n=41)	Absolute cost diff	Decision*	N	Mean Effect			Median (final hourly wage) Effect			CMS comments
				Mean nonzero time (min)	Hourly Wage (2006\$)	per diem cost	Mean nonzero time (min)	Hourly Wage (2006\$)	per diem cost	
Respiratory Thpy	\$0.41	Use BLS	202	51.40	\$23.19	\$19.86	51.40	\$22.71	\$19.46	
CNA/GNA/RCT	\$0.31	Use BLS	4678	70.56	\$10.64	\$12.51	70.56	\$10.37	\$12.20	
RN	\$0.22	Use BLS	3742	25.80	\$25.50	\$10.97	25.80	\$24.98	\$10.74	
SS aide	\$0.22	Use BLS	209	12.89	\$14.23	\$3.06	12.89	\$13.19	\$2.83	
OT aide	\$0.18	Use BLS	79	10.16	\$13.55	\$2.30	10.16	\$12.51	\$2.12	
SLP	\$0.16	Use BLS	520	13.45	\$33.55	\$7.52	13.45	\$32.85	\$7.37	
SW	\$0.14	Use BLS	1244	11.09	\$19.33	\$3.57	11.09	\$18.55	\$3.43	
SS director	\$0.13	Use SW wage	543	10.10	\$19.33	\$3.25	10.10	\$18.55	\$3.12	
Therapy transport	\$0.13	Use the avg of PT & OT aides	114	9.61	\$12.87	\$2.06	9.61	\$12.05	\$1.93	We're assuming that most of the time the peson transporting is an aide
OT	\$0.12	Use BLS	1093	12.27	\$29.95	\$6.13	12.27	\$29.34	\$6.00	
LPN/LVN	\$0.12	Use BLS	4513	25.95	\$18.60	\$8.05	25.95	\$18.32	\$7.92	
Nurse Admin	\$0.11	Use RN wage	87	12.47	\$25.50	\$5.30	12.47	\$24.98	\$5.19	Most of the time spent providing non-admin functions would probably be spent doing CNA type functions
Audiologist	\$0.10	use BLS	19	2.84	\$28.55	\$1.35	2.84	\$26.49	\$1.25	If BLS data is available, use it
Rec Thpy	\$0.09	Use BLS	133	7.93	\$15.14	\$2.00	7.93	\$14.43	\$1.91	
PT aide	\$0.09	Use BLS	325	8.81	\$12.20	\$1.79	8.81	\$11.58	\$1.70	
Therapy aide	\$0.09	Use the avg of PT & OT aides	52	6.50	\$12.87	\$1.39	6.50	\$12.05	\$1.31	assume therapy aide and discipline unspecified
Activity Director	\$0.08	Use mean Rec therapist wage	1587	6.93	\$15.14	\$1.75	6.93	\$14.43	\$1.67	
Dieticians	\$0.07	Use BLS	776	9.30	\$22.63	\$3.51	9.30	\$22.17	\$3.44	
Resp thpy assistant	\$0.04	Use BLS	17	7.59	\$16.41	\$2.08	7.59	\$16.75	\$2.12	
COTA	\$0.04	Use BLS	736	13.15	\$20.12	\$4.41	13.15	\$20.31	\$4.45	
CMA	\$0.04	Use mean CNA wage	686	9.57	\$10.64	\$1.70	9.57	\$10.37	\$1.65	OCSQ classifies CMAs as CNAs
Activity Aide	\$0.04	Use mean CNA wage	1883	8.67	\$10.64	\$1.54	8.67	\$10.37	\$1.50	
Admin	\$0.04	Use mean CNA wage	223	8.20	\$10.64	\$1.45	8.20	\$10.37	\$1.42	Most of the time spent providing non-admin functions would probably be spent doing CNA type functions
Physician	\$0.03	Use BLS, but may leave out	19	2.63	\$64.29	\$2.82	2.63	\$64.96	\$2.85	
PT assistant	\$0.03	Use BLS	1021	13.90	\$20.79	\$4.81	13.90	\$20.91	\$4.84	
Rec therapist- Aide	\$0.02	Use mean CNA wage	156	5.47	\$10.64	\$0.97	5.47	\$10.37	\$0.95	
PT	\$0.01	Use BLS	1279	11.76	\$32.05	\$6.28	11.76	\$32.02	\$6.27	
Nurse Practitioner	\$0.00	Use mean RN wage, but may leave out	0	0.00	\$25.50	\$0.00	0.00	\$24.98	\$0.00	
Physician Assistants	\$0.00	Use BLS, but may leave out	0	0.00	\$33.63	\$0.00	0.00	\$36.63	\$0.00	

Job title (n=41)	Absolute cost diff	Decision*	N	Mean Effect			Median (final hourly wage) Effect			CMS comments
				Mean nonzero time (min)	Hourly Wage (2006\$)	per diem cost	Mean nonzero time (min)	Hourly Wage (2006\$)	per diem cost	
Psych aide	\$0.00	Use BLS	0	0.00	\$10.66	\$0.00	0.00	\$10.67	\$0.00	
Non-certified care tech	--	Use 25th percentile CNA wage	333	31.81	\$8.99	\$4.77	31.81	\$8.99	\$4.77	Suggest treating all non-certified aides the same
Rest aide	--	Use 75 <sup>th</sup> percentile CNA wage (BLS/OES)	720	12.11	\$12.30	\$2.48	12.11	\$12.30	\$2.48	Agree with UM's suggestion
Feeding Aide	--	Use 25th percentile CNA wage	74	10.22	\$8.90	\$1.52	10.22	\$8.90	\$1.52	Suggest treating all non-certified aides the same
Transportation	--	Use 25th percentile CNA wage	81	7.94	\$8.90	\$1.18	7.94	\$8.90	\$1.18	
Bath aide	--	Use 25th percentile CNA wage	46	13.46	\$8.90	\$2.00	13.46	\$8.90	\$2.00	
Dialysis Technician	--	Eliminate from analysis (few minutes)	0	0.00	--	--	0.00	--	--	
Clergy	--	Eliminate from analysis (few minutes, usually volunteer)	48	5.73	--	--	5.73	--	--	
Clinical Associate	--	Eliminate from analysis (few minutes), but may use mean CNA wage	7	8.29	--	--	8.29	--	--	
GED counselor	--	Eliminate from analysis (not part A)	0	--	--	--	--	--	--	
Psych Therapy	--	Eliminate from analysis (not part A)	0	0.00	--	--	0.00	--	--	
Acupuncturist	--	Eliminate from analysis (not part A)	69	11.81	--	--	11.81	--	--	
*if not specified, wage is from BLS/OES										

### Job Categories

STRIVE: Confirmation of Job Roles to be used in:

1. Rehab Classification
2. Nursing CMI (depvar)
3. Rehab/Therapy CMIs (dep var)

**Table 36. Job Categories**

January 24, 2008

<b>Job Role</b>	<b>Use for Rehab Classification</b>	<b>Use for Nursing CMI (dep var): RN (R), LPN/LVN (L), Aide (A)</b>	<b>Use for Rehab/Therapy CMIs (dep var)</b>
Admin nurses - DON, ADON, QA			
RN		R	
LPN		L	
Licensed Vocational Nurse		L	
Certified Nursing Assistant (CNA)		A	
Geriatric Nursing Assistant		A	
Resident Care Technician		A	
Certified Medication Aide		A	
Restorative Aide		A	
Bath Aide		A	
Feeding aide		A	
Psych Aide		A	
Transportation		A	
Physical Therapist	Y		Y
PT Assistant	Y		Y
PT Aide	Y		Y
Occupational Therapist	Y		Y
OT Assistant	Y		Y
OT Aide	Y		Y
Speech/Language Pathologist	Y		Y
Therapy Aide	Y		Y
Therapy Transport			Y
Social Services Director			
Social Worker			
Social Services Aide			
Respiratory Therapist		R	
Respiratory Therapy Assistant		A	
Psych Therapy			
Recreation Therapist			
Rec Therapy Assistant			
Activities Director			
Activities Aide			
Clergy			
Administrator, assistants, secretary			
Acupuncture			
Audiologist	Y		Y
Non Certified Care Tech		A	
Physician			
Nurse Practitioner		R	
Physician's Assistant			
Clinical Associate		A	
Dialysis Technician			
GED Counselor			
Clinical dietician			

## A-15: Therapy and Extensive Services Adjustment

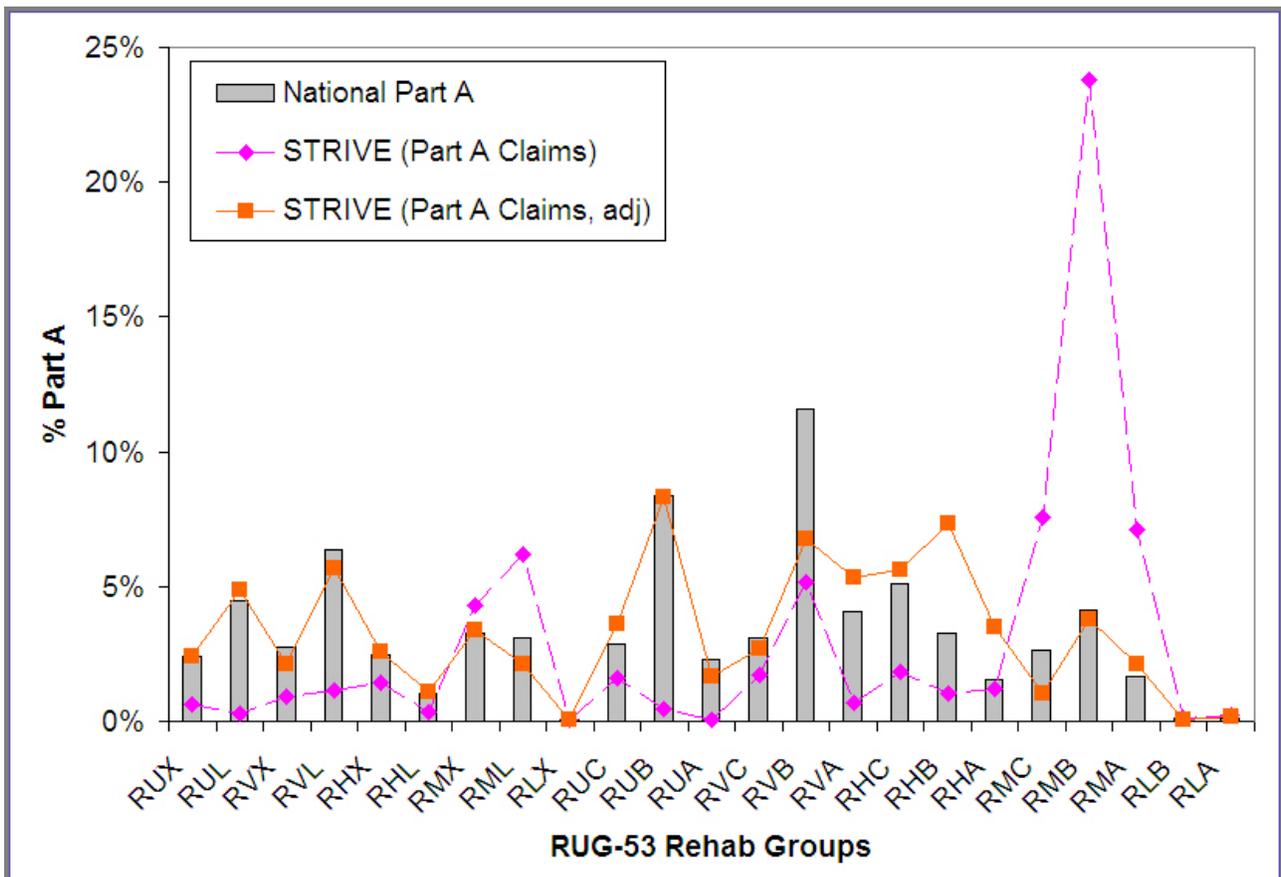
The following graphs (Figures 28 and 29) and tables (Tables 37, 38 and 39) display the reasons for and the results of adjusting therapy time and extensive services.

### RUG-53, Part A Final

Figure 28 presents the RUG-III 53 group distribution for:

- STRIVE sample (initial, no adjustments)
- STRIVE sample (with adjustments)
- National distribution

**Figure 28. RUG-III 53-Group Part A Distribution Chart**

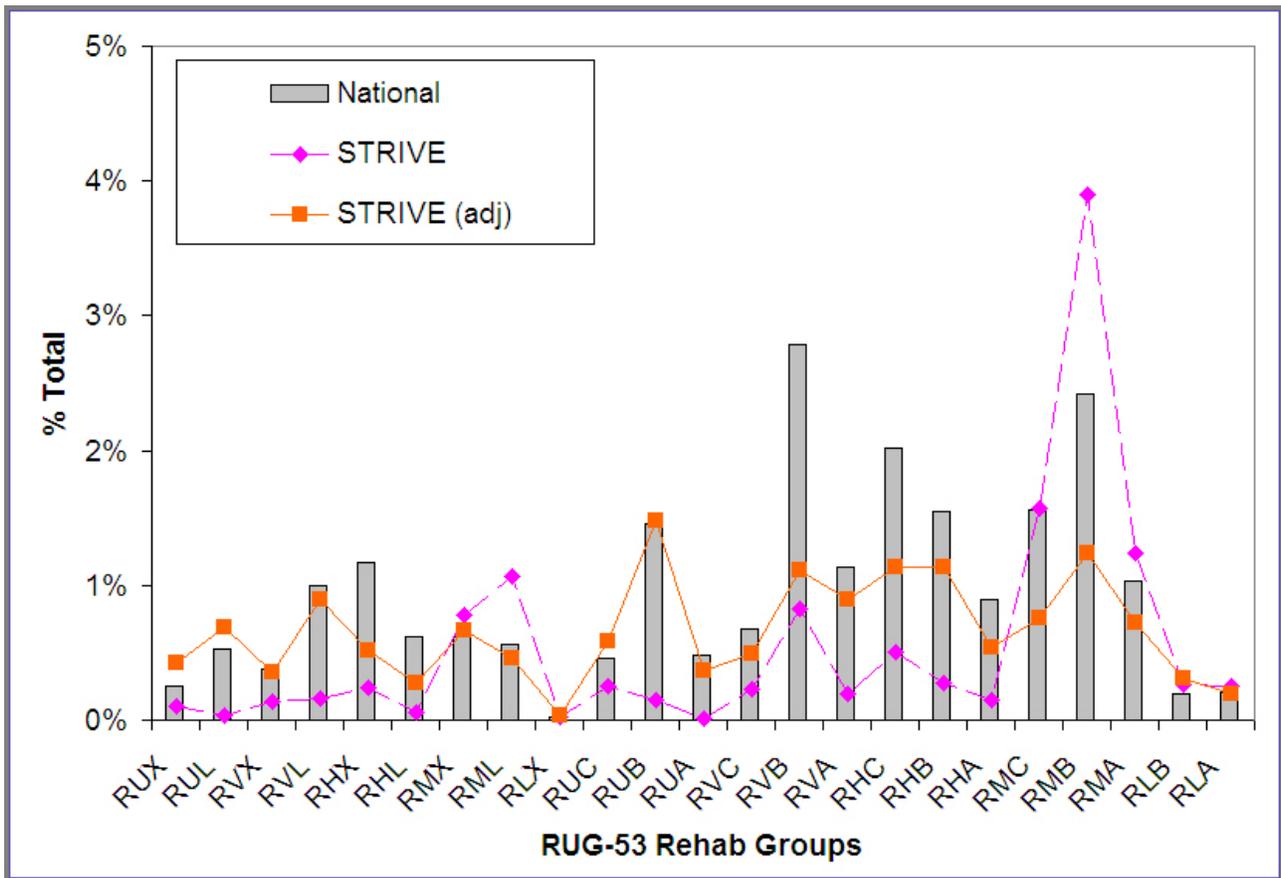


**RUG-53, All Final**

Figure 29 presents the RUG-III 53 group distribution for residents with Part A claims:

- STRIVE sample (initial, no adjustments)
- STRIVE sample (with adjustments)
- National distribution

**Figure 29. RUG-III 53-Group Total Distribution Chart**



**Table 37. Therapy Distribution by Day of Week and Study Schedule – Indicating the Differences in Data Collection Methods**

Study schedule	N*	Distribution of therapy time across day of week (%)								Total
		tu	we	th	fr	sa	su	mo	tu	
a	7993	20.8%	22.1%	21.7%	16.2%	2.6%	1.3%	15.4%	--	100.0%
b	1171	22.4%	24.6%	24.6%	14.9%	1.0%	0.3%	12.2%	--	100.0%
c	516	--	25.3%	24.8%	20.1%	2.1%	1.1%	15.4%	11.1%	100.0%
<b>Total</b>	9680									

Study schedule	N*	Distribution of therapy time across day of week (minutes)								Total
		tu	we	th	fr	sa	su	mo	tu	
a	7993	79631	84623	82949	61974	10086	4848	58923	--	383034
b	1171	10937	11985	12025	7273	472	142	5968	--	48802
c	516	--	7462	7319	5917	609	324	4548	3279	29458
<b>Total</b>	9680									

supervised data collection (mostly PDA)

\*only those present for all 7 days of therapy time collection

**Therapy Provision by day of week**

Study schedule	N**	% residents who received any therapy, by day of week							
		tu	we	th	fr	sa	su	mo	tu
a	3133	78.2%	76.2%	70.8%	45.6%	8.3%	4.1%	42.6%	--
b	484	61.0%	74.6%	65.5%	40.1%	3.9%	0.8%	30.2%	--
c	237	--	81.4%	70.5%	66.7%	6.8%	3.8%	46.0%	30.0%
<b>Total</b>	3854								

**N residents who received any therapy**

Study schedule	N**	N residents who received any therapy							
		tu	we	th	fr	sa	su	mo	tu
a	3133	2451	2388	2219	1428	260	129	1335	--
b	484	295	361	317	194	19	4	146	--
c	237	--	193	167	158	16	9	109	71
<b>Total</b>	3854								

\*\* N people who received any therapy during 7 day period, and present for all 7 days of therapy time collection

**Avg minutes provided per resident (only those who rec'd any thrpy that day)**

Study schedule	N**	Avg minutes							
		tu	we	th	fr	sa	su	mo	tu
a	3133	32.5	35.4	37.4	43.4	38.8	37.6	44.1	--
b	484	37.1	33.2	37.9	37.5	24.8	35.5	40.9	--
c	237	--	38.7	43.8	37.4	38.1	36.0	41.7	46.2
<b>Total</b>	3854								

**RUG 53 Part A Data**

**Table 38. RUG 53 Classification by STM Measure: Part A Residents Only (With Claims Confirmation)**

<b>RUG</b>	<b>No adj</b>	<b>Thrpy +Ext Svc Adj (STM F)</b>	<b>No adj</b>	<b>Thrpy +Ext Svc Adj (STM F)</b>	<b>STRIVE (Part A Claims)</b>	<b>STRIVE (Part A Claims, adj)</b>	<b>National Part A</b>
<i>Variance Expl*</i>							--
Nurs (wage wgt)	0.152	0.156	0.198	0.210	--	--	
Thrpy (wage wgt)	0.690	0.739	0.751	0.819	--	--	
<b>Subtotals</b>							
Rehab/extens					15.3%	24.3%	26.0%
Extensive only					10.0%	8.6%	10.5%
All extensive					25.4%	32.9%	36.5%
All rehab					68.0%	76.4%	76.8%
<b>Categories</b>							
RU					3.0%	20.9%	20.4%
RV					9.7%	22.6%	27.9%
RH					5.9%	20.1%	13.4%
RM					49.0%	12.4%	14.8%
RL					0.4%	0.3%	0.3%
Extensive					10.0%	8.6%	10.5%
Special Care					6.5%	4.2%	4.9%
Clin Complex					9.8%	7.0%	5.1%
Other					5.6%	3.9%	2.6%
<b>Categories</b>							
RUX					0.6%	2.4%	2.4%
RUL					0.3%	4.9%	4.4%
RVX					0.9%	2.1%	2.7%
RVL					1.1%	5.7%	6.4%
RHX					1.5%	2.6%	2.5%
RHL					0.3%	1.1%	1.0%
RMX					4.3%	3.4%	3.3%
RML					6.2%	2.1%	3.1%
RLX					0.1%	0.1%	0.1%
RUC					1.6%	3.6%	2.9%
RUB					0.5%	8.3%	8.4%
RUA					0.1%	1.7%	2.3%
RVC					1.7%	2.7%	3.1%
RVB					5.2%	6.8%	11.6%
RVA					0.7%	5.3%	4.1%
RHC					1.9%	5.6%	5.1%
RHB					1.0%	7.3%	3.3%
RHA					1.2%	3.5%	1.6%
RMC					7.6%	1.0%	2.6%
RMB					23.8%	3.8%	4.1%
RMA					7.1%	2.1%	1.7%
RLB					0.1%	0.1%	0.1%
RLA					0.2%	0.2%	0.1%
SE					10.0%	8.6%	10.5%
SS					6.5%	4.2%	4.9%
CC					9.8%	7.0%	5.1%
Impaired					1.9%	1.8%	0.6%
Behav					0.0%	0.0%	0.1%
Phys					3.6%	2.0%	2.0%
<b>Total</b>					<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Groups</b>							
RUX	4	57	8	29	0.6%	2.4%	2.4%
RUL	9	128	3	59	0.3%	4.9%	4.4%

RUG	No adj	Thrpy +Ext Svc Adj (STM F)	No adj	Thrpy +Ext Svc Adj (STM F)	STRIVE (Part A Claims)	STRIVE (Part A Claims, adj)	National Part A
RVX	22	43	11	26	0.9%	2.1%	2.7%
RVL	38	119	14	68	1.1%	5.7%	6.4%
RHX	36	74	17	31	1.5%	2.6%	2.5%
RHL	13	37	4	13	0.3%	1.1%	1.0%
RMX	105	50	52	41	4.3%	3.4%	3.3%
RML	156	45	74	25	6.2%	2.1%	3.1%
RLX	2	1	1	1	0.1%	0.1%	0.1%
RUC	13	53	19	44	1.6%	3.6%	2.9%
RUB	17	152	6	100	0.5%	8.3%	8.4%
RUA	3	36	1	20	0.1%	1.7%	2.3%
RVC	25	44	21	32	1.7%	2.7%	3.1%
RVB	69	150	62	81	5.2%	6.8%	11.6%
RVA	14	71	8	64	0.7%	5.3%	4.1%
RHC	55	105	22	67	1.9%	5.6%	5.1%
RHB	29	80	13	88	1.0%	7.3%	3.3%
RHA	13	49	14	42	1.2%	3.5%	1.6%
RMC	136	33	91	12	7.6%	1.0%	2.6%
RMB	355	67	285	45	23.8%	3.8%	4.1%
RMA	118	46	86	25	7.1%	2.1%	1.7%
RLB	5	4	2	1	0.1%	0.1%	0.1%
RLA	4	3	3	2	0.2%	0.2%	0.1%
SE3	49	55	33	34	2.7%	2.8%	3.2%
SE2	127	86	84	67	7.0%	5.6%	6.7%
SE1	8	6	4	3	0.3%	0.2%	0.6%
SSC	24	18	21	19	1.8%	1.6%	1.1%
SSB	29	16	22	9	1.8%	0.7%	1.3%
SSA	68	42	35	23	2.9%	1.9%	2.5%
CC2	6	5	1	1	0.1%	0.1%	0.2%
CC1	17	11	6	3	0.5%	0.3%	0.6%
CB2	19	9	5	2	0.4%	0.2%	0.5%
CB1	57	24	35	20	2.9%	1.7%	1.7%
CA2	11	6	17	16	1.4%	1.3%	0.5%
CA1	57	28	55	41	4.5%	3.5%	1.6%
IB2	0	0	0	0	0.0%	0.0%	0.0%
IB1	4	4	20	20	1.7%	1.7%	0.3%
IA2	0	0	0	0	0.0%	0.0%	0.0%
IA1	7	3	3	2	0.2%	0.1%	0.2%
BB2	0	0	0	0	0.0%	0.0%	0.0%
BB1	0	0	0	0	0.0%	0.0%	0.0%
BA2	0	0	0	0	0.0%	0.0%	0.0%
BA1	0	0	0	0	0.0%	0.0%	0.0%
PE2	0	0	0	0	0.0%	0.0%	0.0%
PE1	9	5	4	2	0.3%	0.2%	0.4%
PD2	1	1	2	2	0.1%	0.1%	0.1%
PD1	27	11	23	16	2.0%	1.3%	0.8%
PC2	1	1	2	0	0.1%	0.0%	0.0%
PC1	7	0	5	0	0.4%	0.0%	0.2%
PB2	0	0	0	0	0.0%	0.0%	0.0%
PB1	6	3	4	2	0.3%	0.2%	0.2%
PA2	0	0	0	0	0.0%	0.0%	0.0%
PA1	12	6	4	3	0.3%	0.2%	0.3%
<b>TOTAL</b>	<b>1787</b>	<b>1787</b>	<b>1201</b>	<b>1201</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Note: "Nat'l Part A" based upon analysis of MDS's linked to all Part A claims-based payment periods for CY2006. Payment periods with "from dates" of 9/1/2006 were selected, and the earliest assessment that was linked to each payment period was analyzed. MDSs were "re-RUGed" using "other" classification method that did not use ordered therapies.

\*Note:

- Nursing had lower and upper truncation

-Therapy dependent variable is based upon how the indep var was used

yellow highlighting indicates low cell frequency

Table 39. RUG53 Classification by STM Measure: ALL Residents

RUG	Unweighted		Sample weighted		Sample weighted %		National
	No adj	Thrpy +Ext Svc Adj (STM F)	No adj	Thrpy +Ext Svc Adj (STM F)	STRIVE	STRIVE (adj)	
<b>Variance Expl</b>							--
Nurs (wage wgt, trunc)	0.304	0.307	0.291	0.285	--	--	
Thrpy (wage wgt)*	0.818	0.881	0.843	0.906	--	--	
Nursing + Therapy							
<b>Subtotals</b>							
Rehab/extens					2.6%	4.3%	5.2%
Extensive only					5.7%	7.0%	3.4%
All extensive					8.3%	11.3%	8.6%
All rehab					12.4%	15.3%	22.0%
<b>Categories</b>							
RU					0.6%	3.5%	3.2%
RV					1.6%	3.8%	6.0%
RH					1.2%	3.6%	6.2%
RM					8.6%	3.8%	6.2%
RL					0.5%	0.5%	0.4%
Extensive					5.7%	7.0%	3.4%
Special Care					8.3%	7.8%	7.6%
Clin Complex					20.2%	18.7%	19.5%
Other					53.3%	51.3%	47.5%
<b>Categories</b>							
RUX					0.1%	0.4%	0.3%
RUL					0.0%	0.7%	0.5%
RVX					0.1%	0.4%	0.4%
RVL					0.2%	0.9%	1.0%
RHX					0.2%	0.5%	1.2%
RHL					0.1%	0.3%	0.6%
RMX					0.8%	0.7%	0.6%
RML					1.1%	0.5%	0.6%
RLX					0.0%	0.0%	0.0%
RUC					0.3%	0.6%	0.5%
RUB					0.1%	1.5%	1.5%
RUA					0.0%	0.4%	0.5%
RVC					0.2%	0.5%	0.7%
RVB					0.8%	1.1%	2.8%
RVA					0.2%	0.9%	1.1%
RHC					0.5%	1.1%	2.0%
RHB					0.3%	1.1%	1.5%
RHA					0.2%	0.5%	0.9%
RMC					1.6%	0.8%	1.6%
RMB					3.9%	1.2%	2.4%
RMA					1.2%	0.7%	1.0%
RLB					0.3%	0.3%	0.2%
RLA					0.3%	0.2%	0.2%
SE					5.7%	7.0%	3.4%
SS					8.3%	7.8%	7.6%
CC					20.2%	18.7%	19.5%
Impaired					15.7%	15.0%	11.5%
Behav					0.7%	0.7%	1.1%
Phys					36.9%	35.6%	34.8%
Total					100.0%	100.0%	100.0%
<b>Groups</b>							
RUX	11	78	10	42	0.1%	0.4%	0.3%
RUL	12	152	4	67	0.0%	0.7%	0.5%
RVX	27	63	13	34	0.1%	0.4%	0.4%

RUG	Unweighted		Sample weighted		Sample weighted %		National
	No adj	Thrpy +Ext Svc Adj (STM F)	No adj	Thrpy +Ext Svc Adj (STM F)	STRIVE	STRIVE (adj)	
RVL	42	164	16	87	0.2%	0.9%	1.0%
RHX	53	119	23	50	0.2%	0.5%	1.2%
RHL	15	58	5	27	0.1%	0.3%	0.6%
RMX	150	98	76	65	0.8%	0.7%	0.6%
RML	220	82	104	45	1.1%	0.5%	0.6%
RLX	3	4	2	3	0.0%	0.0%	0.0%
RUC	18	69	25	57	0.3%	0.6%	0.5%
RUB	27	193	14	145	0.1%	1.5%	1.5%
RUA	4	46	2	35	0.0%	0.4%	0.5%
RVC	30	64	23	48	0.2%	0.5%	0.7%
RVB	85	198	81	109	0.8%	1.1%	2.8%
RVA	22	103	19	88	0.2%	0.9%	1.1%
RHC	83	165	49	111	0.5%	1.1%	2.0%
RHB	51	118	27	111	0.3%	1.1%	1.5%
RHA	15	77	15	53	0.2%	0.5%	0.9%
RMC	217	107	154	74	1.6%	0.8%	1.6%
RMB	478	179	381	121	3.9%	1.2%	2.4%
RMA	175	108	121	71	1.2%	0.7%	1.0%
RLB	22	25	25	30	0.3%	0.3%	0.2%
RLA	22	22	25	19	0.3%	0.2%	0.2%
SE3	133	174	111	129	1.1%	1.3%	0.9%
SE2	599	605	415	507	4.2%	5.2%	2.3%
SE1	43	59	30	46	0.3%	0.5%	0.2%
SSC	240	204	293	262	3.0%	2.7%	2.0%
SSB	251	208	247	216	2.5%	2.2%	2.6%
SSA	413	376	275	281	2.8%	2.9%	3.0%
CC2	92	81	102	95	1.0%	1.0%	0.6%
CC1	221	200	255	246	2.6%	2.5%	2.0%
CB2	204	174	190	173	1.9%	1.8%	1.9%
CB1	663	586	762	696	7.8%	7.1%	7.4%
CA2	159	140	135	125	1.4%	1.3%	1.7%
CA1	613	526	526	491	5.4%	5.0%	5.8%
IB2	76	72	175	167	1.8%	1.7%	1.0%
IB1	482	466	916	890	9.4%	9.1%	5.6%
IA2	14	14	22	22	0.2%	0.2%	0.4%
IA1	386	372	421	388	4.3%	4.0%	4.5%
BB2	4	4	7	7	0.1%	0.1%	0.0%
BB1	14	13	17	15	0.2%	0.2%	0.2%
BA2	1	1	0	0	0.0%	0.0%	0.1%
BA1	53	50	44	44	0.5%	0.4%	0.8%
PE2	135	130	251	249	2.6%	2.6%	1.4%
PE1	623	588	821	791	8.4%	8.1%	6.6%
PD2	257	246	452	439	4.6%	4.5%	2.9%
PD1	1111	1052	1139	1104	11.7%	11.3%	12.5%
PC2	29	26	51	44	0.5%	0.5%	0.3%
PC1	138	122	174	158	1.8%	1.6%	1.2%
PB2	20	20	21	21	0.2%	0.2%	0.4%
PB1	212	195	235	221	2.4%	2.3%	2.2%
PA2	39	38	50	50	0.5%	0.5%	0.4%
PA1	700	673	412	397	4.2%	4.1%	6.8%
<b>TOTAL</b>	<b>9707</b>	<b>9707</b>	<b>9766</b>	<b>9766</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Note: "Natl Part A" based upon analysis of MDS's linked to all Part A claims-based payment periods for CY2006. Payment periods with "from dates" of 9/1/2006 were selected, and the earliest assessment that was linked to each payment period was analyzed.

\*Note: Therapy dependent variable is based upon how the indep var was used  
yellow highlighting indicates low cell frequency

## A-16: SAS Code for Adjustment

```
/**THRPY ADJUSTMENT CODING (DRAFT)***/
/*WITH ADJUSTMENT FOR zero PDA therapy session */
/*22-feb-2008*/
/*UM */
/**description**
This file contains the therapy adjustment coding decided based upon
(among other things) the match between Part A claims in STRIVE
and National Part A.
It adds code in steps R2 and R3 which calculates a therapy session variables
(pt_session, ot_session, slp_session) that uses the PDA days when available,
and the non-PDA days when there is no PDA day with 15+ min
(i.e. no PDA therapy session could be calculated).
For checking.
***Key input variables
    **Notation for variables:
    **JOB={PT, PTA, PT Aide, OT, COTA, OT Aide, SLP, Tx Aide, Tx tran], where JOB is
thrpy job roles
    **D= {1,2,3,4,5,6,7}, where D is the day of the study, days 1,2,3, are PDA
collection and days 4,5,6,7
        are non-PDA.
        If study schedule is A or B, then day 1 corresponds to Tuesday, day 2
is Wed, etc.
        If study schedule is C, then day 1 corresponds to Wednesday, day 2 is
TH, etc.
    (e.g. SST_OT_ct_s3= OT staff time in concurrent therapy for resident on day 3)
    SST_JOB_id :           Individual Time for day D and JOB
    SST_JOB_gt_rD:         Resident Time in Group for day D and JOB
    SST_JOB_ct_rD:         Resident Time in Concurrent Thrpy           for day D
and JOB
    SST_JOB_gc_rD:         Resident Time in Group/Concur for day D and JOB
    SST_JOB_gt_sD:         Staff Time in Group for day D and JOB
    SST_JOB_ct_sD:         Staff Time in Concurrent Thrpy for day D and JOB
    SST_JOB_gc_sD:         Staff Time in Group/Concur for day D and JOB
    SCHEDULE:             The study schedule
***Key output variables
    *pt_session:          Average therapy session: PT
    *ot_session:          Average therapy session: OT
    *slp_session:         Average therapy session: SLP
    *pt_rst_rweeki2:      Final adjusted Weekly PT time used in classification
    *ot_rst_rweeki2:      Final adjusted Weekly OT time used in classification
    *slp_rst_rweeki2:     Final adjusted Weekly SLP time used in classification
    *pt_daysi2:           Final adjusted Days of PT used in classification
    *ot_daysi2:           Final adjusted Days of OT used in classification
    *slp_daysi2:          Final adjusted Days of SLP used in classification
    *pt_infl:             Inflation factor for all PT staff time (PT, PTA, PT
aide)
```

```

*rst_pt_si:           Adjusted per diem PT staff time
*rst_pta_si:          Adjusted per diem PTA staff time
*rst_ptaide_si:       Adjusted per diem PT Aide staff time
*ot_infl:             Inflation factor for all OT staff time (OT, COTA, OT
aide)
*rst_ot_si:           Adjusted per diem OT staff time
*rst_cota_si:         Adjusted per diem COTA staff time
*rst_otaide_si:       Adjusted per diem OT Aide staff time
*slp_infl:            Inflation factor for all SLP staff time (SLP)
*rst_slp_si:          Adjusted per diem SLP staff time
*txaide_infl:         Inflation factor for Tx aide and Tx transport time
*rst_txaide_si:       Adjusted per diem Tx Aide staff time
*rst_txtran_ri:       Adjusted per diem Tx Transport staff time
***end description**/
*****;
*Begin adjustment for resident time for classification;
*****;
*summary
    *Step R1: Create intermediate variables (sum resident time by discipline, by day
and
        apportion tx aide time)
    *Step R2: Calculate average thpry session, days adjustment and weekly minutes
        (UNADJ for MDS)
    *Step R3: Adj for MDS days, and run RUG classification
*end summary;
*****;
*step R1: Create intermediate variables
*****;
**Sum Resident time by discipline, by day, and add in Tx aide time (in proportion to OT
and PT for that day);
    %macro thpy_day ; *only do for resident time;
    *initialize count of all STM days where 15+ minutes;
        pt_days=0; label pt_days="# PT days >=15 min";
        ot_days=0; label ot_days="# OT days >=15 min";
        slp_days=0; label slp_days="# SLP days >=15 min";
    %do i= 1 %to 7;
        *get thpry time by day and discipline;
        pt_rst_r&i= sum(sst_pt_i&i, sst_pt_gt_r&i, sst_pt_ct_r&i ,sst_pt_gc_r&i,
            sst_pta_i&i, sst_pta_gt_r&i, sst_pta_ct_r&i, sst_pta_gc_r&i,
            sst_ptaide_i&i, sst_ptaide_gt_r&i, sst_ptaide_ct_r&i,
sst_ptaide_gc_r&i);
            label pt_rst_r&i="Per diem All PT resident time (day &i., min)";
        ot_rst_r&i= sum(sst_ot_i&i, sst_ot_gt_r&i, sst_ot_ct_r&i, sst_ot_gc_r&i,
            sst_cota_i&i, sst_cota_gt_r&i, sst_cota_ct_r&i, sst_cota_gc_r&i,
            sst_otaide_i&i, sst_otaide_gt_r&i, sst_otaide_ct_r&i,
sst_otaide_gc_r&i);
            label ot_rst_r&i="Per diem All OT resident time (day &i., min)";

```

```

rst_txaide_r&i= sum(sst_txaide_i&i, sst_txaide_gt_r&i, sst_txaide_ct_r&i,
sst_txaide_gc_r&i);
label rst_txaide_r&i="Per diem Tx aide resident time (day &i., min)";
rst_txtran_r&i= sum(sst_txtran_i&i, sst_txtran_gt_r&i, sst_txtran_ct_r&i,
sst_txtran_gc_r&i);
label rst_txtran_r&i="Per diem Tx Tran resident time (day &i., min)";
rst_slp_r&i= sum(sst_slp_i&i, sst_slp_gt_r&i, sst_slp_ct_r&i
,sst_slp_gc_r&i);
label rst_slp_r&i="Per diem SLP resident time (day &i., min)";
*calculate for each day the proportion OT and PT;
if sum(pt_rst_r&i, ot_rst_r&i)>0 then do;
p_pt_r&i=pt_rst_r&i/ sum(pt_rst_r&i, ot_rst_r&i);
label p_pt_r&i="Prop all PT on day &i ";
p_ot_r&i=ot_rst_r&i/ sum(pt_rst_r&i, ot_rst_r&i);
label p_ot_r&i="Prop all OT on day &i ";
end;
*Count number of days where resident time is 15+ minutes (NOT ADJ);
if sum(pt_rst_r&i, p_pt_r&i*rst_txaide_r&i) >=15 then pt_days=pt_days+1;
if sum(ot_rst_r&i, p_ot_r&i*rst_txaide_r&i) >=15 then ot_days=ot_days+1;
if rst_slp_r&i>=15 then slp_days=slp_days+1;
%end;
*Get weekly minutes (NOT ADJ!!!);
pt_rst_rweek=sum(of pt_rst_r1-pt_rst_r7,
p_pt_r1*rst_txaide_r1,
p_pt_r2*rst_txaide_r2,
p_pt_r3*rst_txaide_r3,
p_pt_r4*rst_txaide_r4,
p_pt_r5*rst_txaide_r5,
p_pt_r6*rst_txaide_r6,
p_pt_r7*rst_txaide_r7);
ot_rst_rweek=sum(of ot_rst_r1-ot_rst_r7,
p_ot_r1*rst_txaide_r1,
p_ot_r2*rst_txaide_r2,
p_ot_r3*rst_txaide_r3,
p_ot_r4*rst_txaide_r4,
p_ot_r5*rst_txaide_r5,
p_ot_r6*rst_txaide_r6,
p_ot_r7*rst_txaide_r7);
slp_rst_rweek=sum(of rst_slp_r1-rst_slp_r7, sst_aud);
%mend thpy_day;
data thrp1;
set thrpy; *original data;
%thpy_day;
run;
*****;
*use inflation algorithm that give credit for
paper days
*****;

```

```

*30-jan-08;
/*FROM BOB (30-jan-08)
    std_PDA_mins_per_day = total_PDA_mins_on_days_with_15min /
    num_PDA_days_with_15mins;
    IF num_PDA_days_with_15mins = 3 THEN
    DO;
    adj_days = 5 +weekend_days_with_15min;
    adj_mins = (std_PDA_mins_per_15day * adj_days);
    END;
    ELSE IF num_PDA_days_with_15mins = 2 THEN
    DO;
    adj_days = 3;
    IF paper_weekdays_with_15mins = 2 THEN adj_days = 4;
    adj_days = adj_days + weekend_days_with_15mins;
    adj_mins = (std_PDA_mins_per_day * adj_days);
    END;
    ELSE IF num_PDA_days_with_15_mins = 1 THEN
    DO;
    adj_days = 1 + paper_weekdays_with_15mins +
    weekend_days_with_15mins;
    adj_mins = (std_PDA_mins_per_day * adj_days);
    END;
    ELSE IF num_PDA_days_with_15_mins = 0 THEN
    DO;
    adj_days = paper_weekdays_with_15mins +
    weekend_days_with_15min;
    adj_mins = paper_weekday_mins + weekend_mins;
    END;
*/
%macro thpy_npil;  *part 1 of 2;
    *count PDA days;
    pt_days3=0; label pt_days3="# PDA  days with>=15 min: PT";
    pt_days1=0; label pt_days1="# PDA  days + paper days with>=15 min: PT";
    ot_days3=0; label ot_days3="# PDA  days with>=15 min: OT";
    ot_days1=0; label ot_days1="# PDA  days + paper days with>=15 min: OT";
    slp_days3=0; label slp_days3="# PDA  days with >=15 min: SLP";
    slp_days1=0; label slp_days1="# PDA  days + paper days with>=15 min: SLP";
    %do i= 1 %to 3;
        if sum(pt_rst_r&i, p_pt_r&i*rst_txaide_r&i) >=15 then pt_days3=pt_days3+1;
        if sum(ot_rst_r&i, p_ot_r&i*rst_txaide_r&i) >=15 then ot_days3=ot_days3+1;
        if rst_slp_r&i>=15 then slp_days3=slp_days3+1;
    %end;
    *count non-PDA days;
    pt_np_wkdy=0; label pt_np_wkdy="# non-PDA wkdays with >=15 min: PT";
    ot_np_wkdy=0; label ot_np_wkdy="# non-PDA wkdays with >=15 min: OT";
    slp_np_wkdy=0; label slp_np_wkdy="# non-PDA wkdays with >=15 min: SLP";
    pt_np_wknd=0; label pt_np_wknd="# non-PDA wknd days with >=15 min: PT";

```

```

ot_np_wknd=0; label ot_np_wknd="# non-PDA wknd days with >=15 min: OT";
slp_np_wknd=0; label slp_np_wknd="# non-PDA wknd days with >=15 min: SLP";
if schedule in ("A","B") then do;
    if sum(pt_rst_r4, p_pt_r4*rst_txaide_r4) >=15 then pt_np_wkdy=pt_np_wkdy+1;
    if sum(pt_rst_r7, p_pt_r7*rst_txaide_r7) >=15 then pt_np_wkdy=pt_np_wkdy+1;
    if sum(ot_rst_r4, p_ot_r4*rst_txaide_r4) >=15 then ot_np_wkdy=ot_np_wkdy+1;
    if sum(ot_rst_r7, p_ot_r7*rst_txaide_r7) >=15 then ot_np_wkdy=ot_np_wkdy+1;
    if rst_slp_r4 >=15 then slp_np_wkdy=slp_np_wkdy+1;
    if rst_slp_r7 >=15 then slp_np_wkdy=slp_np_wkdy+1;
    if sum(pt_rst_r5, p_pt_r5*rst_txaide_r5) >=15 then pt_np_wknd=pt_np_wknd+1;
    if sum(pt_rst_r6, p_pt_r6*rst_txaide_r6) >=15 then pt_np_wknd=pt_np_wknd+1;
    if sum(ot_rst_r5, p_ot_r5*rst_txaide_r5) >=15 then ot_np_wknd=ot_np_wknd+1;
    if sum(ot_rst_r6, p_ot_r6*rst_txaide_r6) >=15 then ot_np_wknd=ot_np_wknd+1;
    if rst_slp_r5 >=15 then slp_np_wknd=slp_np_wknd+1;
    if rst_slp_r6 >=15 then slp_np_wknd=slp_np_wknd+1;
end;
if schedule in ("C") then do;
    if sum(pt_rst_r6, p_pt_r6*rst_txaide_r6) >=15 then pt_np_wkdy=pt_np_wkdy+1;
    if sum(pt_rst_r7, p_pt_r7*rst_txaide_r7) >=15 then pt_np_wkdy=pt_np_wkdy+1;
    if sum(ot_rst_r6, p_ot_r6*rst_txaide_r6) >=15 then ot_np_wkdy=ot_np_wkdy+1;
    if sum(ot_rst_r7, p_ot_r7*rst_txaide_r7) >=15 then ot_np_wkdy=ot_np_wkdy+1;
    if rst_slp_r6 >=15 then slp_np_wkdy=slp_np_wkdy+1;
    if rst_slp_r7 >=15 then slp_np_wkdy=slp_np_wkdy+1;
    if sum(pt_rst_r4, p_pt_r4*rst_txaide_r4) >=15 then pt_np_wknd=pt_np_wknd+1;
    if sum(pt_rst_r5, p_pt_r5*rst_txaide_r5) >=15 then pt_np_wknd=pt_np_wknd+1;
    if sum(ot_rst_r4, p_ot_r4*rst_txaide_r4) >=15 then ot_np_wknd=ot_np_wknd+1;
    if sum(ot_rst_r5, p_ot_r5*rst_txaide_r5) >=15 then ot_np_wknd=ot_np_wknd+1;
    if rst_slp_r4 >=15 then slp_np_wknd=slp_np_wknd+1;
    if rst_slp_r5 >=15 then slp_np_wknd=slp_np_wknd+1;
end;
*calculate avg thrpy session (based upon PDA days);
    pt_pda_day=0; label pt_pda_day="Per session min, only PDA day where>=15min: PT
(txaide)";
    ot_pda_day=0; label ot_pda_day="Per session min, only PDA day where>=15min: OT
(txaide)";
    slp_pda_day=0; label slp_pda_day="Per session min, only PDA day where>=15min:
SLP";
    %do i= 1 %to 3;
        if sum(pt_rst_r&i, p_pt_r&i*rst_txaide_r&i)>=15 then
            pt_pda_day=sum(pt_pda_day, pt_rst_r&i, p_pt_r&i*rst_txaide_r&i);
        if sum(ot_rst_r&i, p_ot_r&i*rst_txaide_r&i)>=15 then
            ot_pda_day=sum(ot_pda_day, ot_rst_r&i, p_ot_r&i*rst_txaide_r&i);
        if rst_slp_r&i>=15 then slp_pda_day=sum(slp_pda_day, rst_slp_r&i);
    %end;
        if pt_days3>0 then pt_pda_day=pt_pda_day/pt_days3;
        if ot_days3>0 then ot_pda_day=ot_pda_day/ot_days3;
        if slp_days3>0 then slp_pda_day=slp_pda_day/slp_days3;
*calculate avg thrpy session (based upon NON-PDA days- to be used for those who

```

```

        had few PDA mintues);
pt_days4=0; label pt_days4="# non-PDA days with>=15 min: PT";
ot_days4=0; label ot_days4="# non-PDA days with>=15 min: OT";
slp_days4=0; label slp_days4="# non-PDA days with >=15 min: SLP";

%do i= 4 %to 7;
    if sum(pt_rst_r&i, p_pt_r&i*rst_txaide_r&i) >=15 then pt_days4=pt_days4+1;
    if sum(ot_rst_r&i, p_ot_r&i*rst_txaide_r&i) >=15 then ot_days4=ot_days4+1;
    if rst_slp_r&i>=15 then slp_days4=slp_days4+1;
%end;
*calculate non-PDA session;
    pt_npda_day=0; label pt_npda_day="Per session min, only Non-PDA days
where>=15min: PT (txaide)";
    ot_npda_day=0; label ot_npda_day="Per session min, only Non-PDA days
where>=15min: OT (txaide)";
    slp_npda_day=0; label slp_npda_day="Per session min, only Non-PDA days
where>=15min: SLP";
    %do i= 4 %to 7;
        if sum(pt_rst_r&i, p_pt_r&i*rst_txaide_r&i)>=15 then
            pt_npda_day=sum(pt_npda_day, pt_rst_r&i,
p_pt_r&i*rst_txaide_r&i);
        if sum(ot_rst_r&i, p_ot_r&i*rst_txaide_r&i)>=15 then
            ot_npda_day=sum(ot_npda_day, ot_rst_r&i,
p_ot_r&i*rst_txaide_r&i);
        if rst_slp_r&i>=15 then slp_npda_day=sum(slp_npda_day, rst_slp_r&i);
    %end;
        *get per session;
        if pt_days4>0 then pt_npda_day=pt_npda_day/pt_days4;
        if ot_days4>0 then ot_npda_day=ot_npda_day/ot_days4;
        if slp_days4>0 then slp_npda_day=slp_npda_day/slp_days4;
*calculate overall therapy session based on PDA-based session and
non-PDA session;
if pt_pda_day >0 then pt_session=pt_pda_day; else pt_session=pt_npda_day;
    label pt_session="Average PT session (min)";
if ot_pda_day >0 then ot_session=ot_pda_day; else ot_session=ot_npda_day;
    label ot_session="Average OT session (min)";
if slp_pda_day >0 then slp_session=slp_pda_day; else slp_session=slp_npda_day;
    label slp_session="Average SLP session (min)";
%mend thpy_npi1;

%macro thpy_npi2 (job); *part 2 of 2;
&job._rst_rweeki=0; label &job._rst_rweeki="Weekly min %upcase(&job) , adj";
if &job._days3=3 then do;
    &job._daysi= 5+ &job._np_wknd;
    &job._rst_rweeki=&job._pda_day*&job._daysi;
end;
else if &job._days3=2 then do;
    &job._daysi= 3;

```

```

        if &job._np_wkdy=2 then &job._daysi=4;
        &job._daysi=&job._daysi+&job._np_wknd;
        &job._rst_rweeki=&job._pda_day*&job._daysi;
end;
else if &job._days3=1 then do;
        &job._daysi=1+ &job._np_wkdy +&job._np_wknd;
        &job._rst_rweeki=&job._pda_day*&job._daysi;
end;
else if &job._days3=0 then do;
        &job._daysi= &job._np_wkdy + &job._np_wknd;
        &job._rst_rweeki= sum(&job._npda_day*&job._daysi);
end;
%mend thpy_npi2;

data thrpy2;
    set thrpy1;
        %thpy_npi1;
        %thpy_npi2(pt);
        %thpy_npi2(slp);
        %thpy_npi2(ot);
        if sst_aud>=15 and rst_slp_r1<=15 and rst_slp_r2<=15 then aud_days=1;
        label aud_days="Number of nursing days where audiologist time is
15+min";
        *count day of speech therapy where audiologist time was greater than
15 minutes
        and did not already count those days when speech therapy was greater
than 15 minutes
        Dave Oatway confirmed that the 4 residents who had 15+ minutes over
the 48 hour period
        received those times all on 1 day, so we can count it. It turns out
that it makes no difference
        in the RUG-group of those residents;
run;
*****;
*step R3: RUG classification and final
adjustment for days of thrpy
*****;
data thrpy3;
    set thrpy2;
        *keep original MDS therapy;
        mds_plbaa=plbaa; label mds_plbaa="# days speech therapy
(MDS)";
        mds_plbab=plbab; label mds_plbab="# min speech therapy (MDS)";
        mds_plbba=plbba ; label mds_plbba="# days OT (MDS)";
        mds_plbbb=plbbb; label mds_plbbb="# min OT (MDS)";
        mds_plbca=plbca ; label mds_plbca="# days PT (MDS)";
        mds_plbcb=plbcb; label mds_plbcb="# min PT (MDS)";
        mds_k5a=k5a; label mds_k5a="Original STRIVE MDS K5a
value";

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```

value";
                                mds_plac=plac;          label mds_placb="Original STRIVE MDS plac
                                mds_plai=plai;          label mds_plai="Original STRIVE MDS
plai value";
                                mds_plaj=plaj;          label mds_plaj="Original STRIVE MDS
plaj value";
                                mds_plal=plal;          label mds_plal="Original STRIVE MDS
plal value";

                                array se(*) k5a plac plai plaj plal ;
                                array se_rpt (*) near_rptn_k5a near_rptn_plac near_rptn_plai
near_rptn_plaj near_rptn_plal ;
                                array rpt_lag (*) rpt_lag_k5a rpt_lag_plac rpt_lag_plai
rpt_lag_plaj rpt_lag_plal ;
                                array near_lag (*) near_lag_k5a near_lag_plac near_lag_plai
near_lag_plaj near_lag_plal ;
                                do i=1 to dim(se);
                                    if se_rpt(i)=1 then do;
                                        se(i)=se_rpt(i);
                                        rpt_lag(i)=near_lag(i);
                                    end;
                                end;

                                *set MDS variables to STM values;
                                plbaa=max(slp_daysi, mds_plbaa);
                                slp_daysi2=plbaa;          label slp_daysi2="Max of Infl
and MDS days: SLP";

                                plbab=sum(plbaa*slp_session, sst_aud);

                                slp_rst_rweeki2=plbab; label slp_rst_rweeki2="Weekly
min (based on max of Infl and MDS days): SLP";

                                *adjust for audiologist days;
                                plbaa=sum(slp_daysi2, aud_days);

                                * we didn't include audiologist days in the
calculation of weekly minutes with the average
                                SLP session, instead just added all of the
audiologist time for the 48 hour period to
                                whatever SLP they had;
                                plbba=max(ot_daysi, mds_plbba);
                                ot_daysi2=plbba; label ot_daysi2="Max of Infl and MDS
days: OT";

                                plbbb=plbba*ot_session;
                                ot_rst_rweeki2= plbbb; label ot_rst_rweeki2="Weekly
min (based on max of Infl and MDS days): OT";

                                plbca=max(pt_daysi, plbca);
                                pt_daysi2=plbca; label pt_daysi2="Max of Infl and MDS
days: PT";

                                plbcb=plbca*pt_session;
                                pt_rst_rweeki2=plbcb; label pt_rst_rweeki2="Weekly min
(based on max of Infl and MDS days): PT";

                                *****RUN RUGS*****;

```

```

                                %include
"C:\changj\STRIVE\data_analytic\data_file\100pct\rugcode_test_31jan_08.sas";
    *set values back to MDS;
    plbaa=mds_plbaa;
    plbab=mds_plbab;
    plbba=mds_plbba;
    plbbb=mds_plbbb;
    plbca=mds_plbca;
    plbcb=mds_plbcb;
run;
*****END ADJUSTMENT FOR RESIDENT TIME FOR CLASSIFICATION*****;
*****;
*Begin adjustment for STAFF time for DEPVAR;
*****;
**This macro is run to obtain per diem staff time;
%macro thpy_recode (job); **per diem staff time (no adjustment);
rst_&job._s=sum(of sst_&job._i1-sst_&job._i7,
of sst_&job._gt_s1-sst_&job._gt_s7,
of sst_&job._ct_s1- sst_&job._ct_s7,
of sst_&job._gc_s1-sst_&job._gc_s7)/ thrpy_days;
rst_&job._r=sum(of sst_&job._i1-sst_&job._i7,
of sst_&job._gt_r1-sst_&job._gt_r7,
of sst_&job._ct_r1- sst_&job._ct_r7,
of sst_&job._gc_r1-sst_&job._gc_r7)/thrpy_days;
%mend thpy_recode;

data thrpy_s;
    set thrpy3;
    %thpy_recode(pt);
    %thpy_recode(pta);
    %thpy_recode(ptaide);
    %thpy_recode(ot);
    %thpy_recode(cota);
    %thpy_recode(otaide);
    %thpy_recode(slp);
    %thpy_recode(txaide);
    %thpy_recode(txtran);
        *obtain per diem audiologist time;
rst_aud=sst_aud/nrsng_days;
cost_aud= 2.574*rst_aud;
*calculate inflation factors by discipline;
if pt_rst_rweek >0 then
    pt_infl= pt_rst_rweeki2/ pt_rst_rweek; label pt_infl="Staff infl factor:
PT";
if ot_rst_rweek >0 then
    ot_infl= ot_rst_rweeki2/ ot_rst_rweek; label ot_infl="Staff infl factor:
OT";

```

```

txaide_infl=mean(pt_infl, ot_infl); label txaide_infl="Staff infl factor: Tx
aide/Tx Tran";
if slp_rst_rweek >0 then
    slp_infl= slp_rst_rweeki2/ slp_rst_rweek; label slp_infl="Staff infl
factor: SLP";
    rst_pt_si          =rst_pt_s*pt_infl; label rst_pt_si="Per diem PT staff
time (infl)";
    rst_pta_si         =rst_pta_s*pt_infl; label rst_pta_si="Per diem PTA staff time
(infl)";
    rst_ptaide_si      =rst_ptaide_s* pt_infl; label rst_ptaide_si="Per diem PT Aide
staff time (infl)";
    rst_ot_si          =rst_ot_s      *ot_infl; label rst_ot_si="Per diem OT
staff time (infl)";
    rst_cota_si        =rst_cota_s      *ot_infl; label rst_cota_si="Per diem COTA staff
time (infl)";
    rst_otaide_si      =rst_otaide_s* ot_infl; label rst_otaide_si="Per diem OT Aide
staff time (infl)";
    rst_slp_si=rst_slp_s*slp_infl;label  rst_slp_si="Per diem SLP staff time
(infl)";
    rst_txaide_si= rst_txaide_s*txaide_infl;label  rst_txaide_si="Per diem Tx Aide
staff time (infl)";
    rst_txtran_si= rst_txtran_s*txaide_infl;label  rst_txtran_si="Per diem Tx Tran
staff time (infl)";
    *wage-weight;
    costi_pt          = (31.83* rst_pt_si)          /60;
label costi_pt="Per diem PT (2006 CNA wage wgt, infl)";
    costi_pta         = (19.88* rst_pta_si)          /60; label
costi_pta="Per diem PTA (2006 CNA wage wgt, infl)";
    costi_ptaide     = (10.61* rst_ptaide_si)       /60; label costi_ptaide="Per diem
PT Aide (2006 CNA wage wgt, infl)";
    costi_ot          = (29.07* rst_ot_si)          /60;
label costi_ot="Per diem OT (2006 CNA wage wgt, infl)";
    costi_cota        = (20.22* rst_cota_si)          /60; label
costi_cota="Per diem COTA (2006 CNA wage wgt, infl)";
    costi_otaide     = (12.03* rst_otaide_si)       /60; label costi_otaide="Per diem
OT Aide (2006 CNA wage wgt, infl)";
    costi_slp         = (27.74* rst_slp_si)          /60; label
costi_slp="Per diem SLP (2006 CNA wage wgt, infl)";

    costi_txaide     = (11.32* rst_txaide_si)       /60; label costi_txaide="Per diem
Tx Aide (2006 CNA wage wgt, infl)";
    costi_txtran     = (11.32*rst_txtran_si)        /60; label costi_txtran="Per
diem TxTran (2006 CNA wage wgt, infl)";
    *standardize to CNA wage;
    s=10.67;        * where s= median CNA hourly wage;
    s=s/60;         * get minute wage;
    array costi (*) costi_pt costi_pta costi_ptaide costi_ot costi_cota costi_otaide
costi_slp costi_txaide costi_txtran;
    do i=1 to dim(costi);
        costi(i)=costi(i)/ s;
    end;
thrpy_costi = sum (costi_pt ,costi_pta, costi_ptaide,
costi_ot, costi_cota, costi_otaide,

```

```

        costi_slp, cost_aud,
        costi_txaide, costi_txtran); label thrpy_costi="Per diem Therapy (2006 CNA
wage-wgt min. infl)";
thrpy_rst_si= sum(rst_pt_si,rst_pta_si, rst_ptaide_si,
        rst_ot_si, rst_cota_si, rst_otaide_si,
        rst_slp_si, rst_aud,
        rst_txaide_si, rst_txtran_si); label thrpy_rst_si="Per diem Therapy (staff
min, infl)";
thrpy_rst_ri=sum(sum(pt_rst_rweeki2,ot_rst_rweeki2, slp_rst_rweeki2)/7, rst_txtran_r,
rst_aud);
        label thrpy_Rst_ri="Per diem Therapy (resid min, infl)";
ot_costi=sum(costi_ot, costi_cota, costi_otaide); label ot_costi="Per diem OT (2006 CNA
wage-wgt min, infl)";
pt_costi=sum(costi_pt ,costi_pta, costi_ptaide); label pt_costi="Per diem PT (2006 CNA
wage-wgt min, infl)";
slp_costi=sum(costi_slp ,cost_aud); label slp_costi="Per diem SLP, Audiol (2006 CNA wage-
wgt min, infl)";
thrpy_nursi=sum(nurs_cost, thrpy_costi); label thrpy_nursi="Per diem Thrpy +nurs (2006
CNA wage-wgt min, infl thrpy)";
thrpy_nurs=sum(nurs_cost, thrpy_Cost); label thrpy_nursi="Per diem Thrpy +nurs (2006 CNA
wage-wgt min)";
rug_costi=sum(cost_nad_n, cost_rn, cost_lpn,
        cost_cna, cost_cma, cost_resta, cost_batha, cost_feeda, cost_psycha,
        cost_ncct,
        cost_tran,
        cost_sw,
        costi_pt,costi_pta, costi_ptaide,
        costi_ot, costi_cota, costi_otaide,
        costi_slp, cost_aud,
        costi_txaide, costi_txtran); label rug_costi="Per diem RUG time (2006 CNA wage-wgt
min, infl)";
thrpy_nursi2=sum(thrpy_costi, nurs_costr2);
        label thrpy_nursi2="Per diem Thrpy +nurs (2006 CNA wage-wgt min, infl thrpy, trunc
nurs)";
thrpy_nurs2=sum(thrpy_cost,nurs_costr2);
        label thrpy_nurs2="Per diem Thrpy +nurs (2006 CNA wage-wgt min, trunc nurs)";
run;

```

## A-17:STRIVE Addendum Crosswalk

Table 40. STRIVE Addendum: List of Variables

Prefix	Category contains items useful for case-mix	Category	Examples
XB	y	Cognition	Confused, Abnormal thought
XE	y	Mood	Violence, depression
XG	y	Physical Function	Distance walked, Hip fracture
XI	y	Disease Dx	PTSD, Sleep Apnea
XJ	y	Health Conditions	Fatigue, Dyspnea, Pain
XK	y	Oral/Nutritional Status	Coughing during meals
XM	y	Skin Condition	# Stage 2 pressure ulcers
XP	y	Special Tx and Procedures	IV meds prior to admission
XQ	y	Discharge potential and interest	Projected stay, Place to live in community

### NOTES:

#### Addendum Versions:

Version 1: STRIVE MDS Addendum 4\_27\_06.DOC  
 Version 2: STRIVE MDS Addendum 6\_9\_06.DOC  
 Version 3: STRIVE MDS Addendum V 080706.DOC  
 Version 4: STRIVE MDS Addendum 090506.DOC  
 Version 5: STRIVE MDS Addendum 102506.doc  
 Version 6: STRIVEAddendum020107.pdf

#### Addendum:

- Items with similar wording across versions are considered the same. (Examples: For XB1, V1 & V2 do not specify "last 3 days"; V 3 - V5 do specify "last 3 days". For XJ5, V1 specifies "last 5 days"; V2 - V5 specify "last 3 days". Item XK1C for V2 doesn't include "or when taking medicine"; XK1A\_V3 for V3-5 does include "or when taking medicine".)
- Rename earlier version item names to later version item names if considered the same variable. (Examples: V1 & V2 item XI is the same as V3 - V5 item XI1B. Combine data in all versions and rename as XI1B. Item XK1C for V2 doesn't include "or when taking medicine"; XK1A\_V3 for V3-5 does include "or when taking medicine"- Combine data in all versions and rename as XK1A\_V3. Item XK2A for V1 & V2 is the same variable as XK3A for V3 - V5. Combine data in all versions and rename as XK3A.
- Resident Pain Interview XJ: Recoding "Unable to answer". For XJ4A - XJ4D, V1 has a skip pattern to XJ5 if resident is "Unable to answer". If XJ4A - XJ4D are all "blank" (code -2) then code as "Unable to answer" (code2). If coded 1 or 0 then assume correct. If coded 1 or 0 in XJA and XJB-XJD is "blank" then XJB-XJD = "."(missing). XJ4A for V2 & V3 doesn't have "Unable to answer"; XJ4B - XJ4D have "Unable". Recode XJ4A "Unable to answer" (code2) if coded "Unable" in XJ4B - XJ4D.
- Special Treatments and Procedures XP: V1-4 List B = Last 7 day admit; V5 List B = All Residents. Recode for "Missing" in B List: For V1-4 (admit ≤ 7 days ago) coded 1 or 0, assume correct. For V1-4 (if admit > 7 days) and blank (coded -2), then correct and consider "." (missing). For V5, coded 1 or 0, assume correct. For V5 and blank (coded -2) then consider "." (missing). Select for (admit ≤ 7days ago) cases and merge with V1-4 cases.
- Section Q: Discharge Potential and Overall Status:

Not used for Case Mix. Data not recoded and keep all versions of data.

**STRIVE Addendum Items in Analytic Dataset**

Table 41 provides descriptions of addendum variables, including:

- if they were consolidated (many are NOT)
- recommendations for compatible variables
- frequencies
- inter-rater reliability of the item in STRIVE (if available)

**Table 41. STRIVE Addendum Items in Analytic Dataset**

Resolved Var name	Label	Avail in data*	CM potential	N not missing	Kappa	Comments	Resolution	Var name-Ver1	Var name-Ver2	Var name-Ver3	Var name-Ver4	Var name-Ver5	Var name-Ver6
newXA3	Date of Reentry	y	y	55	n/a		XA3 had date and time format; newXA3 has date format	XA3	XA3	XA3	XA3	XA3	XA3
<b>Cognition</b>													
XB1	Procedural Memory	y	y	8639	n/a	V1& 2 no Last 3 Days	Assume the Same	XB1	XB1	XB1	XB1	XB1	XB1
XB2	Abnormal Thought Process	y	y	8633	n/a	V3,4,5 no Last 3 Days	Assume the Same	XB2	XB2	XB2	XB2	XB2	XB2
XB3	When Confused	y	y	8621	n/a			XB3	XB3	XB3	XB3	XB3	XB3
XB4	Cognitive Functioning	y	y	8610	n/a	V1 Code4 has extra words	Assume the Same	XB4	XB4	XB4	XB4	XB4	XB4
<b>Mood</b>													
XE1A	Violence Ideation	y	y	8671	n/a			XE1A	XE1A	XE1A	XE1A	XE1A	XE1A
XE1B	Violence Threats	y	y	8663	n/a			XE1B	XE1B	XE1B	XE1B	XE1B	XE1B
XE1C	Violence Acts	y	y	8660	n/a			XE1C	XE1C	XE1C	XE1C	XE1C	XE1C
XE2A	Little Interest - Res Interview	y		4176	n/a								XE2A
XE2B	Feeling own - Res Interview	y		4175	n/a								XE2B
XE2C	Sleep - Res Interview	y		4172	n/a								XE2C
XE2D	Tired - Res Interview	y		4174	n/a								XE2D
XE2E	Appetite - Res Interview	y		4171	n/a								XE2E
XE2F	Feeling Bad - Res Interview	y		4173	n/a								XE2F
XE2G	Concentrating - Res Interview	y		4172	n/a								XE2G
XE2H	Movement - Res Interview	y		4169	n/a								XE2H
XE2I	Thoughts - Res Interview	y		4169	n/a								XE2I
XE3A	Little Interest - Staff Interview	y	y	4229	n/a								XE3A
XE3B	Feeling own - Staff Interview	y	y	4230	n/a								XE3B

Resolved Var name	Label	Avail in data*	CM potential	N not missing	Kappa	Comments	Resolution	Var name-Ver1	Var name-Ver2	Var name-Ver3	Var name-Ver4	Var name-Ver5	Var name-Ver6
XE3C	Sleep - Staff Interview	y	y	4229	n/a								XE3C
XE3D	Tired - Staff Interview	y	y	4229	n/a								XE3D
XE3E	Appetite - Staff Interview	y	y	4225	n/a								XE3E
XE3F	Feeling Bad - Staff Interview	y	y	4236	n/a								XE3F
XE3G	Concentrating - Staff Interview	y	y	4226	n/a								XE3G
XE3H	Movement - Staff Interview	y	y	4226	n/a								XE3H
XE3I	Thoughts - Staff Interview	y	y	4230	n/a								XE3I
XE3J	Short Temper - Staff Interview	y	y	4228	n/a								XE3J
<b>Physical Function</b>													
XG1	Distance Walked	y	y	8479	0.83			XG1	XG1	XG1	XG1	XG1	XG1
XG2	Distance Wheeled Self	y	y	8496	0.47	V3,4,5 lc "last 3 days"	Assume the Same,	XG2	XG2	XG2	XG2	XG2	XG2
XG3AA	Knee Replacement	y	y	8530	0.53			XG3AA	XG3AA	XG3AA	XG3AA	XG3AA	XG3AA
XG3AB	Hip Replacement	y	y	8528	0.52			XG3AB	XG3AB	XG3AB	XG3AB	XG3AB	XG3AB
XG3AC	Hip Fracture	y	y	8533	0.54			XG3AC	XG3AC	XG3AC	XG3AC	XG3AC	XG3AC
XG3B	# Prior Independent ADLs	y	y	7017	0.38			XG3B	XG3B	XG3B	XG3B	XG3B	XG3B
<b>Disease DX</b>													
XI1A	Post traumatic Stress	y	y	8233	n/a					XI1A	XI1A	XI1A	XI1A
XI1B	Sleep Apnea	y	y	8556	1.00	V1&2 XI is same as XI1B	Combine Xi and Xi1b to Xi1b	XI	XI	XI1B	XI1B	XI1B	XI1B
<b>Health Conditions</b>													
XJ1	Fatigue	y	y	8604	n/a	V1&2 Last 3 Days; V3-5 no bold	Assume the Same	XJ1	XJ1	XJ1	XJ1	XJ1	XJ1
XJ2	Dyspnea	y	y	8621	n/a	V1&2 no Last 3 Days	Assume the Same	XJ2	XJ2	XJ2	XJ2	XJ2	XJ2
XJ3A	Scheduled Pain Med	y	y	8505	0.42	XJ6A: regimen consist of pain meds v1. 5 days v2-5 3 days XJ3A: been on schedule pain med	Combine	XJ6A	XJ6A	XJ6A	XJ6A	XJ6A	XJ3A
XJ3B	PRN Pain Med	y	y	4191	0.21								XJ3B
XJ3C	Non-Med for Pain	y	y	8465	0.28	XJ6B: regimen consist of non-med intervention v1. 5 days v2-5 3 days XJ3A: rec'd non-med intervention	Combine	XJ6B	XJ6B	XJ6B	XJ6B	XJ6B	XJ3C
XJ4	Report Pain	y	y	8494	0.31	XJ3 (V1&2 no Last 3 Days), V1-5; V6 has option of "Unclear"	Combine	XJ3	XJ3	XJ3	XJ4	XJ3	XJ4

Resolved Var name	Label	Avail in data*	CM potential	N not missing	Kappa	Comments	Resolution	Var name-Ver1	Var name-Ver2	Var name-Ver3	Var name-Ver4	Var name-Ver5	Var name-Ver6
XJ4B_V1	Pain Most/All Time	y	y	4216	0.29	V1 5Day,Skip;No Unable	Assume the Same	XJ4B	XJ4B	XJ4B	XJ4B	XJ4B	
XJ5A	Comfort Today - Res Interview	y		4151	0.27								XJ5A
XJ5B	Pain - Res Interview	y		8419	0.21	XJ4A: v.1 skip pattern , no "unable to answer option" and 5 day look back v.2-5 3 day look back XJ5B: no look back	Combine	XJ4A	XJ4A	XJ4A	XJ4A	XJ4A	XJ5B
XJ5C	How Bad - Res Interview	y		8045	0.21	XJ4C: v.1 skip pattern and 5 day look back, no "no pain" or "unable to answer" options v.2-5 3 day look back XJ5C: no look back	Combine	XJ4C	XJ4C	XJ4C	XJ4C	XJ4C	XJ5C
XJ5D	Sleep - Res Interview	y		4141	0.33								XJ5D
XJ5E	Activity - Res Interview	y		4140	0.25								XJ5E
XJ5F	Enough Done - Res Interview	y		8156	0.04	XJ4D: pain tx working v1. part of skip pattern, and no "unable to answer" option XJ5F: enough to make more comfortable	Combine	XJ4D	XJ4D	XJ4D	XJ4D	XJ4D	XJ5F
XJ5G	Comfort Week - Res Interview	y		4128	0.52								XJ5G
XJ6A1	Pain: Sounds	y	y	8504	0.18	XJ5A: v1. 5 day look back v3-5 3 day look back XJ6A1: 7 day look back	Combine	XJ5A	XJ5A	XJ5A	XJ5A	XJ5A	XJ6A1
XJ6A2	Pain: Facial Express	y	y	8494	0.22	XJ5B: v1. 5 day look back v3-5 3 day look back XJ6A2: 7 day look back	Combine	XJ5B	XJ5B	XJ5B	XJ5B	XJ5B	XJ6A2
XJ6A3	Pain: Protect Body	y	y	8505	0.37	XJ5C: v1. 5 day look back v3-5 3 day look back XJ6A3: 7 day look back	Combine	XJ5C	XJ5C	XJ5C	XJ5C	XJ5C	XJ6A3
XJ6A4	Pain: Complaints	y	y	8488	0.25	XJ5D: v1. 5 day look back v3-5 3 day look back XJ6A4: 7 day look	Combine	XJ5D	XJ5D	XJ5D	XJ5D	XJ5D	XJ6A4

Resolved Var name	Label	Avail in data*	CM potential	N not missing	Kappa	Comments	Resolution	Var name-Ver1	Var name-Ver2	Var name-Ver3	Var name-Ver4	Var name-Ver5	Var name-Ver6
						back							
XJ6A5	Pain: Environment	y	y	4196	0.08								XJ6A5
XJ6B	Pain: Tx Trials	y	y	4149	0.11								XJ6B
XJ6C	Pain: Care Plan	y	y	3628	0.07								XJ6C
XJ7	Pain Control	y	y	8519	dna			XJ7	XJ7	XJ7	XJ7	XJ7	XJ7
<b>Oral/Nutritional Status</b>													
XK1A	Swallowing: Coughing (during meals or taking medicine)	y	y	8471	0.45	XK1A: V3-5 add "taking medicine."	Combine	XK1C	XK1C	XK1A	XK1A	XK1A	XK1A
XK1B	Swallowing: Change in Voice	y	y	8385	0.14					XK1B	XK1B	XK1B	XK1B
XK1C	Swallowing: Difficulty Eating	y	y	8182	0.27					XK1C	XK1C	XK1C	XK1C
XK1D	Swallowing: Difficulty Complaints	y	y	8457	0.25	post-V2 wording excludes "pain"	Combine		XK1D	XK1D	XK1D	XK1D	XK1D
XK2	Primary Nutritional Intake	y	y	8251	0.75					XK2	XK2	XK2	XK2
XK3A	# Parenteral Feedings	y	y	7461	0.21	Same as XK2A	Combine	XK2A	XK2A	XK3A	XK3A	XK3A	XK3A
newXK3B	Date Last Parenteral Feeding	y	y	291	n/a	Same as XK2B, XK3B; newXK3B_V4 4-digit yr	Combine	XK2B	XK2B	XK3B	XK3B	XK3B	XK3B
<b>Skin Condition</b>													
XM1A	Pressure Ulcer Status	y	y	5695	0.52					XM1A	XM1A	XM1A	XM1A
XM1B1	Ulcer Status - Largest	y		4553	0.44	For data entry purposes, V6 was entered into XM1B1_V6				XM1B1	XM1B1	XM1B1	XM1B1
XM1B2	Ulcer Status -Stage	y		4544	0.35	For data entry purposes, V6 was entered into XM1B2_V6				XM1B2	XM1B2	XM1B2	XM1B2
XM1B3	Ulcer Status - Treatment	y		4523	0.21	For data entry purposes, V6 was entered into XM1B3_V6				XM1B3	XM1B3	XM1B3	XM1B3
XM1B4	Ulcer Status - Pressure	y		4559	0.58	For data entry purposes, V6 was entered into XM1B4_V6				XM1B4	XM1B4	XM1B4	XM1B4
XM1B5	Ulcer Status - Location	y		4546	0.35	For data entry purposes, V6 was entered into XM1B5_V6				XM1B5	XM1B5	XM1B5	XM1B5
XM1B6	Ulcer Status -Other	y		4410	0.08	For data entry purposes, V6 was entered into XM1B6_V6				XM1B6	XM1B6	XM1B6	XM1B6
XM1B7	Ulcer Status -			104	n/a	Character variable				XM1B7	XM1B7	XM1B7	XM1B7

Resolved Var name	Label	Avail in data*	CM potential	N not missing	Kappa	Comments	Resolution	Var name-Ver1	Var name-Ver2	Var name-Ver3	Var name-Ver4	Var name-Ver5	Var name-Ver6
	Reason												
XM2A_n	Ulcer Length -Stage 3 Or 4	y		4645	0.78					XM2A	XM2A	XM2A	XM2A
XM2B_n	Ulcer Width -Stage 3 or 4	y		4635	0.21					XM2B	XM2B	XM2B	XM2B
XM2C_n	Ulcer Depth -Stage 3 or 4	y		4618	0.54					XM2C	XM2C	XM2C	XM2C
XM3A_n	Largest Ulcer Length -Stage 2	y		4668	0.39					XM3A	XM3A	XM3A	XM3A
XM3B_n	Largest Ulcer Width -Stage 2	y		4662	0.65					XM3B	XM3B	XM3B	XM3B
XM4	# Unhealed Stage 2 Ulcers	y	y	1462	0.29	For data entry purposes, V6 was entered into XM4_V6				XM4	XM4	XM4	XM4
newXM5	Date Ulcer Measurement	y		1873	n/a	V3 2-digit yr; V4&5 4-digit yr	Combine, newXM5 has only date part			XM5	XM5	XM5	XM5
<b>Special Tx and Procedures</b>													
XP1AB	Barium Swallows - Post Admit	y	y	7520	0.28	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1AB	XP1AB	XP1AB	XP1AB	XP1AB	XP1AB
XP1BB	BIPAP/CPAP -Post Admit	y	y	7519	0.66	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1BB	XP1BB	XP1BB	XP1BB	XP1BB	XP1BB
XP1CB	Hyperbaric Oxygen - Post Admit	y	y	7518	n/a	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1CB	XP1CB	XP1CB	XP1CB	XP1CB	XP1CB
XP1DB	Infection Isolation - Post Admit	y	y	7512	0.35	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1DB	XP1DB	XP1DB	XP1DB	XP1DB	XP1DB
XP1EA	IV Med - Pre Admit	y	y	4173	0.79	word changes; All 7Day	Assume the Same	XP1EA	XP1EA	XP1EA	XP1EA	XP1EA	XP1EA
XP1EB	IV Med - Post Admit	y	y	7504	0.71	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1EB	XP1EB	XP1EB	XP1EB	XP1EB	XP1EB
XP1FB	Wound Therapy - Post Admit	y	y	7503	0.66	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1FB	XP1FB	XP1FB	XP1FB	XP1FB	XP1FB
XP1GA	Oxygen Therapy - Pre Admit	y	y	4171	0.77	word changes; All 7Day	Assume the Same	XP1GA	XP1GA	XP1GA	XP1GA	XP1GA	XP1GA
XP1GB	Oxygen Therapy - Post Admit	y	y	7516	0.56	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1GB	XP1GB	XP1GB	XP1GB	XP1GB	XP1GB
XP1HB	PET Scan -Post Admit	y	y	7501	n/a	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1HB	XP1HB	XP1HB	XP1HB	XP1HB	XP1HB
XP1IA	Suctioning -Pre Admit	y	y	4183	n/a	word changes; All 7Day	Assume the Same	XP1IA	XP1IA	XP1IA	XP1IA	XP1IA	XP1IA
XP1IB	Suctioning -Post Admit	y	y	7547	0.91	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1IB	XP1IB	XP1IB	XP1IB	XP1IB	XP1IB
XP1JA	Tracheostomy Care -Pre Admit	y	y	4181	1.00	word changes; All 7Day	Assume the Same	XP1JA	XP1JA	XP1JA	XP1JA	XP1JA	XP1JA
XP1JB	Tracheostomy Care -Post Admit	y	y	7552	0.91	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1JB	XP1JB	XP1JB	XP1JB	XP1JB	XP1JB
XP1KA	Transfusion -Pre Admit	y	y	4173	n/a	word changes; All 7Day	Assume the Same	XP1KA	XP1KA	XP1KA	XP1KA	XP1KA	XP1KA
XP1KB	Transfusion -Post Admit	y	y	7516	n/a	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1KB	XP1KB	XP1KB	XP1KB	XP1KB	XP1KB
XP1LA	Vent/Respirator -Pre	y	y	4177	n/a	word changes; All	Assume the Same	XP1LA	XP1LA	XP1LA	XP1LA	XP1LA	XP1LA

Resolved Var name	Label	Avail in data*	CM potential	N not missing	Kappa	Comments	Resolution	Var name-Ver1	Var name-Ver2	Var name-Ver3	Var name-Ver4	Var name-Ver5	Var name-Ver6
	Admit					7Day							
XP1LB	Vent/Respirator - Post Admit	y	y	7535	0.66	V1-4 7Day Res;V5 All Res <sup>3</sup>	Assume the Same	XP1LB	XP1LB	XP1LB	XP1LB	XP1LB	XP1LB
<b>Discharge potential and interest</b>													
XQ1A	Discharge: Options	y		3982	n/a		Combine						XQ1A
XQ1A_V3	Prefers Comm	y		4003	0.59					XQ1A	XQ1A	XQ1A	
XQ1B	Discharge: Have Place	y		4388	n/a								XQ1B
XQ1C1	Discharge: Have Home	y		5896	n/a	Similar to XQ1B1	Combine				XQ1B1	XQ1B1	XQ1C1
XQ1C2	Discharge: Have Relative/Friend	y		5689	n/a	Similar to XQ1B2	Combine				XQ1B2	XQ1B2	XQ1C2
XQ1B3_V4	Discharge Location: Grp Home	y		3399	0.27	V4&5 4 places					XQ1B3	XQ1B3	
XQ1B4_V4	Discharge Location: Other	y		3373	-0.05	V4&5 4 places					XQ1B4	XQ1B4	
XQ1D1	Discharge: Prefer Home	y		3780	n/a								XQ1D1
XQ1D2	Discharge: Prefer Relative/Friend	y		3653	n/a								XQ1D2
XQ1D3	Discharge: Prefer Assist Live	y		3638	n/a								XQ1D3
XQ1D4	Discharge: Prefer Gr Home	y		3624	n/a								XQ1D4
XQ1D5	Discharge: Other	y		3536	n/a								XQ1D5
XQ1E	Discharge: Permission	y		7852	n/a	Similar to V1 XQ1E, V4-5 XQ1D, V6 XQ1E	Combine			XQ1E	XQ1D	XQ1D	XQ1E
XQ1F	Discharge: Info	y		3727	n/a	Similar to V5 XQ1E1, XQ1E2, XQ1E3, & XQ1E4	Did not combine because V5 had multiple answers, whereas V6 allowed only 1 option						XQ1F
XQ1E1_V4	Discharge Info: Resident	y		3469	0.24	Similar to V6 XQ1F	Did not combine because V5 had multiple answers, whereas V6 allowed only 1 option				XQ1E1	XQ1E1	
XQ1E2_V4	Discharge Info: Relative/Friend	y		3451	-0.02	Similar to V6 XQ1F	Did not combine because V5 had multiple answers, whereas V6 allowed only 1 option				XQ1E2	XQ1E2	
XQ1E3_V4	Discharge Info: Legal Guardian	y		3454	n/a	Similar to V6 XQ1F	Did not combine because V5 had multiple answers, whereas V6 allowed only 1 option				XQ1E3	XQ1E3	
XQ1E4_V4	Discharge Info: None	y		1228		Similar to V6 XQ1F	Did not combine because V5 had multiple answers, whereas V6 allowed				XQ1E4		

Resolved Var name	Label	Avail in data*	CM potential	N not missing	Kappa	Comments	Resolution	Var name-Ver1	Var name-Ver2	Var name-Ver3	Var name-Ver4	Var name-Ver5	Var name-Ver6
							only 1 option						
XQ1E4_V5	Discharge Info: Other	y		2226	0.25							XQ1E4	
XQ2A	Discharge Support Person	y		8081	n/a					XQ2A	XQ2A	XQ2A	XQ2A
XQ2B	Discharge: Stay Duration	y	y	8075	n/a					XQ2B	XQ2B	XQ2B	XQ2B
XQ1C_V4	Discharge: Discussion	y		3937	0.60	V3 wording"talk w/ someone"	Combine			XQ1D	XQ1C	XQ1C	

# A-18:STRIVE Staff Roles

Table 42. STRIVE STM Staff

Discipline	Role	Description	Admin (AD) Nursing (N) Therapy (T) Ancillary (A) Hlth Care (H) <sup>1</sup>	STRIVE Item	Therapy Groups PT (P); OT (O); SLP (SL); Aides (A)	UM Total Nurs Time: tot_nurse	CareTrack Total Nurs Time Flag: tot_nrsng	# Days STRIV E STM
Nurse	NurseAdmin	Admin nurses - DON, ADON, QA	AD <sup>2</sup>	NAD		y		2
Nurse	RN	RN	N	RN		y	y	2
Nurse	LPN	LPN	N	LPN		y	y	2
Nurse	LVN	Licensed Vocational Nurse	(combined w/ LPN)					2
Nurse	CNA	Nursing Assistant	N	C N A		y	y	2
Nurse	GNA	Geriatric Nursing Assistant	(combined w/ CNA)					2
Nurse	RCT	Resident Care Technician	(combined w/ CNA)					2
Nurse	CMA	Certified Medication Aide	N	CMA		y	y	2
Nurse	Rest_Aide	Restorative Aide	N	RestA		y	y	2
Nurse	Bath_Aide	Bath Aide	N	BathA		y	y	2
Nurse	FeedingAide	Feeding aide	N	FeedA		y	y	2
Nurse	Psych_Aide	Psych Aide	N	PsychA		y		2
Nurse	Transport	Transportation	N	Tran		y		2
PT	PT	Physical Therapist	T	PT	P			7
PT	PTA	PT Assistant	T	PTA	P			7
PT	PT_Aide	PT Aide	T	PTAide	P			7
OT	OT	Occupational Therapist	T	OT	O			7
OT	COTA	OT Assistant	T	COTA	O			7
OT	OT_Aide	OT Aide	T	OTAide	O			7
SLP	SLP	Speech/Languag e Pathologist	T	SLP	SL			7
Tx	Tx_Aide	Therapy Aide	T	TxA	A			7
Tx	Tx_Transpor t	Therapy Transport	T	TxTran	A			7
zOther	SS_Dir	Social Services Director	A	SSDir				2
zOther	SW	Social Worker	A	SW				2
zOther	SS_Aide	Social Services Aide	A	SSA				2
zOther	Resp_Tx	Respiratory Therapist	N	RespTx		y		2
zOther	RespTxA	Respiratory Therapy Assistant	N	RespTx A		y		2
zOther	PSY	Psych Therapy	H	Psy				2
zOther	Rec_Tx	Recreation Therapist	A	RecTx				2
zOther	Rec_TxA	Rec Therapy Assistant	A	RecTxA				2
zOther	ACT_Directo r	Activities Director	A	ActDir				2
zOther	ACT_Aide	Activities Aide	A	ActA				2
zOther	Administratio n	Administrator, assistants, secretary	AD	Admin				2
zOther	O2	Audiologist	H	Aud				2
Nurse	O3	Non Certified Care Tech	N	NCCT		y		2
zOther	O4	Physician	H	Phy				2
zOther	O5	Nurse Practioner	N <sup>o</sup>	NP		y		2
zOther	O6	Physician's Assistant	H	PhyA				2

Discipline	Role	Description	Admin (AD) Nursing (N) Therapy (T) Ancillary (A) Hlth Care (H) <sup>1</sup>	STRIVE Item	Therapy Groups PT (P); OT (O); SLP (SL); Aides (A)	UM Total Nurs Time: tot_nurse	CareTrack Total Nurs Time Flag: tot_nrsng	# Days STRIV E STM
zOther	O7	Clinical Associate	N	CA		y		2
zOther	O8	Dialysis Technician	A	Dial		y		2
zOther	O10	Therapy Aide	(combined w/ TxA) <sup>3</sup>	TxA	A			7
zOther	Dietician	Clinical dietician	A	Diet				2

<sup>1</sup>The Health Care category includes staff that are usually Medicare B payment.

<sup>2</sup>Will only add to total nursing if nurses provide patient care: DON\_PRVD\_CARE=Yes

<sup>3</sup>The O10 category is to be included with the "Therapy Aide" category. Was used as a "Therapy Tech" role in facility FI03 (same as Therapy Aide).

<sup>4</sup>The O1 Acupuncture and O9 GED Conselor categories were dropped by CMS (10-04-2007).

<sup>5</sup>The Clergy category was dropped by CMS (10-11-2007). Generally voluntary services.

<sup>6</sup> Although the Nurse Practitioner category has no time in the 100% data, it is kept by CMS (10-11-2007).

### **STRIVE Job Roles**

CMS Confirmation per Jeanette K. 01/25/2008

Job roles to be used in:

- Rehab Classification
- Nursing CMI (depvar)
- Rehab/Therapy CMIs (dep var)

**Table 43. Job Roles**

Job Role	Use for Rehab Classification	Use for Nursing CMI (dep var): RN (R), LPN/LVN (L), Aide (A)	Use for Rehab/Therapy CMIs (dep var)
Admin nurses - DON, ADON, QA			
RN		R	
LPN		L	
Licensed Vocational Nurse		L	
Certified Nursing Assistant (CNA)		A	
Geriatric Nursing Assistant		A	
Resident Care Technician		A	
Certified Medication Aide		A	
Restorative Aide		A	
Bath Aide		A	
Feeding aide		A	
Psych Aide		A	
Transportation		A	
Physical Therapist	Y		Y
PT Assistant	Y		Y
PT Aide	Y		Y
Occupational Therapist	Y		Y
OT Assistant	Y		Y

<b>Job Role</b>	<b>Use for Rehab Classification</b>	<b>Use for Nursing CMI (dep var): RN (R), LPN/LVN (L), Aide (A)</b>	<b>Use for Rehab/Therapy CMIs (dep var)</b>
OT Aide	Y		Y
Speech/Language Pathologist	Y		Y
Therapy Aide	Y		Y
Therapy Transport			Y
Social Services Director			
Social Worker			
Social Services Aide			
Respiratory Therapist		R	
Respiratory Therapy Assistant		A	
Psych Therapy			
Recreation Therapist			
Rec Therapy Assistant			
Activities Director			
Activities Aide			
Clergy			
Administrator, assistants, secretary			
Acupuncture			
Audiologist	Y		Y
Non Certified Care Tech		A	
Physician			
Nurse Practitioner			
Physician's Assistant			
Clinical Associate		A	
Dialysis Technician			
GED Counselor			
Clinical dietitian			

## **A-19:STRIVE STM Variables**

### **Nursing Resident Specific Time -- Nursing STM Variables:**

- 1) Data are at the resident-level. (Resident ID = Key)
- 2) Each var identifies resident-specific time by staff role
- 3) For 29 final admin, nursing, ancillary, and health care staff roles. Clergy, GED Counselor, and Acup are dropped from analyses.
- 4) For total 48 hours of data collection
- 5) Therapy staff are not included (9 staff roles with 1-7 dates of STM).
- 6) Includes Znew Residents RST by staff role for each facility.

### **Therapy Resident Specific Time -- Therapy STM Variables:**

- 1) Data are at the resident-level. (Resident ID = Key).
- 2) Each var identifies staff role, type of therapy RST (individual, group, concurrent) for resident and staff, and day.
- 3) For the 9 therapy staff roles: OT, COTA, OTAide, PT, PTA, PTAide, SLP, Therapy Aide, and Therapy Transport.
- 4) For each of the 7 days, there are 7 vars for each of the 9 staff roles.
- 5) "Therapy Days" variable (THRPY\_DAYS) is the same across all staff roles for each resident (range: 1-7 days).
- 6) Therapy times as reported via PDAs or paper instruments

### **Other STM Variables:**

- 1) Data are at the resident-level. (Resident ID = Key)
- 2) 3 Demographic vars - name, gender, and dob (ssn not kept on field laptop).

### **Non-Resident Specific Time Variables:**

- 1) Data are at the facility-level (Facility ID = Key)
- 2) Each var identifies non-resident specific time and staff role.
- 3) **48 hours** (total time) for 29 admin, nursing, ancillary, and health care staff roles. See Appendix 18 for Staff Roles.
- 4) **3 PDA days** (total time) for **9** therapy roles (OT, COTA, OTAide, PT, PTA, PTAide, SLP, Therapy Aide & Therapy Transport.) See Appendix 18 for Staff Roles.
- 5) Some therapy aide and therapy transport will have 3 therapy PDA days and some will have the 2 24-hr nursing days (depends on facility collection).
- 6) 4 remaining Paper days for 9 therapy staff are not included (data incomplete).

### **Paid Meals & Breaks STM Variables:**

- 1) Data are at the facility-level (Facility ID & Unit\_ID = Keys)
- 2) Meals & Breaks can be Paid (MBP) or Unpaid (MBU)
- 3) Each var identifies Paid Meals & Breaks and staff role.
- 4) **48 hours** total time for 29 admin, nursing, ancillary, & health care staff roles. Includes Therapy Aide & Therapy Transport. See Appendix 18 for Staff Roles.
- 5) **3 PDA days** (total time) for 9 therapy staff roles: OT, COTA, OTAide, PT, PTA, PTAide, SLP, Therapy Aide, and Therapy Transport. See Appendix 18 for Staff Roles.
- 6) 4 Paper days for 9 therapy staff are not included (data incomplete).

### **NOTES:**

It was decided at the 9-27-07 STRIVE CMS call that UM will not receive Unpaid Meals and Breaks variables form CareTrack in the 100% data draw.

It was decided at 9-6-07 STRIVE CMS call that UM will not receive Non Study Time (NST) variables form CareTrack in the 100% data draw.

## A-20: STRIVE STM Resolutions

### Data Specification Resolutions as of 10-11-2007:

1) UM will receive Nursing and Therapy resident specific times plus Other STM variables from CareTrack on **10/04/07**. UM will receive non-resident specific time from CareTrack on **10/19/07**.

**2) Nursing Resident Specific Time (RST):** No differentiation of 2 24-hour days of Nursing time.

Time will be added together (total time) for the 48 hours of data collection for each staff role EXCEPT the 9 therapy roles of OT, COTA, OTAide, PT, PTA, PTAide, SLP, Therapy Aide, and Therapy Transport

**3) Therapy Resident Specific Time (RST):** Differentiate the 7 days of therapy time based on calendar day of study for the 9 therapy staff roles of OT, COTA, OTAide, PT, PTA, PTAide, SLP, Therapy Aide, and Therapy Transport. Therapy Aide and Therapy Transport are included because some facilities collected all 7 days, some collected the 3 PDA Therapy days, and some collected only the 2 24-hour Nursing days.

Keep same variables for all days.

**4) Other STM Variables:** These items include resident-level data from the field laptop.

**5) Non-Study Time (NST):** UM will NOT receive non-study time (NST) from CareTrack in the 100% data draw.

Non-study time includes time such as time off-unit. NST data will be kept by CareTrack.

**6) Non-Resident Specific Time (NRST):** Non-resident specific times for Nursing and Therapy will NOT be split out by day. Time for all staff roles will be reported as total.

Time includes 48 nursing hours for the 32 admin, nursing, ancillary, and health care staff roles. Time for the 9 therapy roles includes the 3 PDA therapy days.

The 4 therapy Paper days will not be used (data are incomplete).

**7) Paid Meals & Breaks (MBP):** "Paid meals and breaks" is separate NRST time.

Time includes the 48 nursing hours for 32 admin, nursing, ancillary, and health care staff roles. Time for the 9 therapy roles includes the 3 PDA therapy days. Four therapy Paper days not used (data incomplete).

**8) Unpaid Meals & Breaks (MBU):** UM will NOT receive "unpaid meals and breaks" time from CareTrack in the 100% data draw. These data will be kept by CareTrack.

**9) Znew Resident Time.** UM will receive RST time for "Z" residents not identified otherwise in the data collection (approx 12,000 min for 100% Data). Z time is by facility only.

What are the proposals for using this time? Decided to drop this time.

a) Drop Z time.

b) Add Z time to RST only, NRST only, or both in some proportion - (inflation)

**10) Staff Categorization:** There is agreement on the categorization of the final 38 staff roles into the 5 staff groups of: Administration (AD), Nursing (N), Therapy (T),

Ancillary (A), and Health Care Professionals (H).

**11) Gap Time Reporting:** CareTrack provided "Gap and Group Analysis\_9\_20\_07.xls" for review.

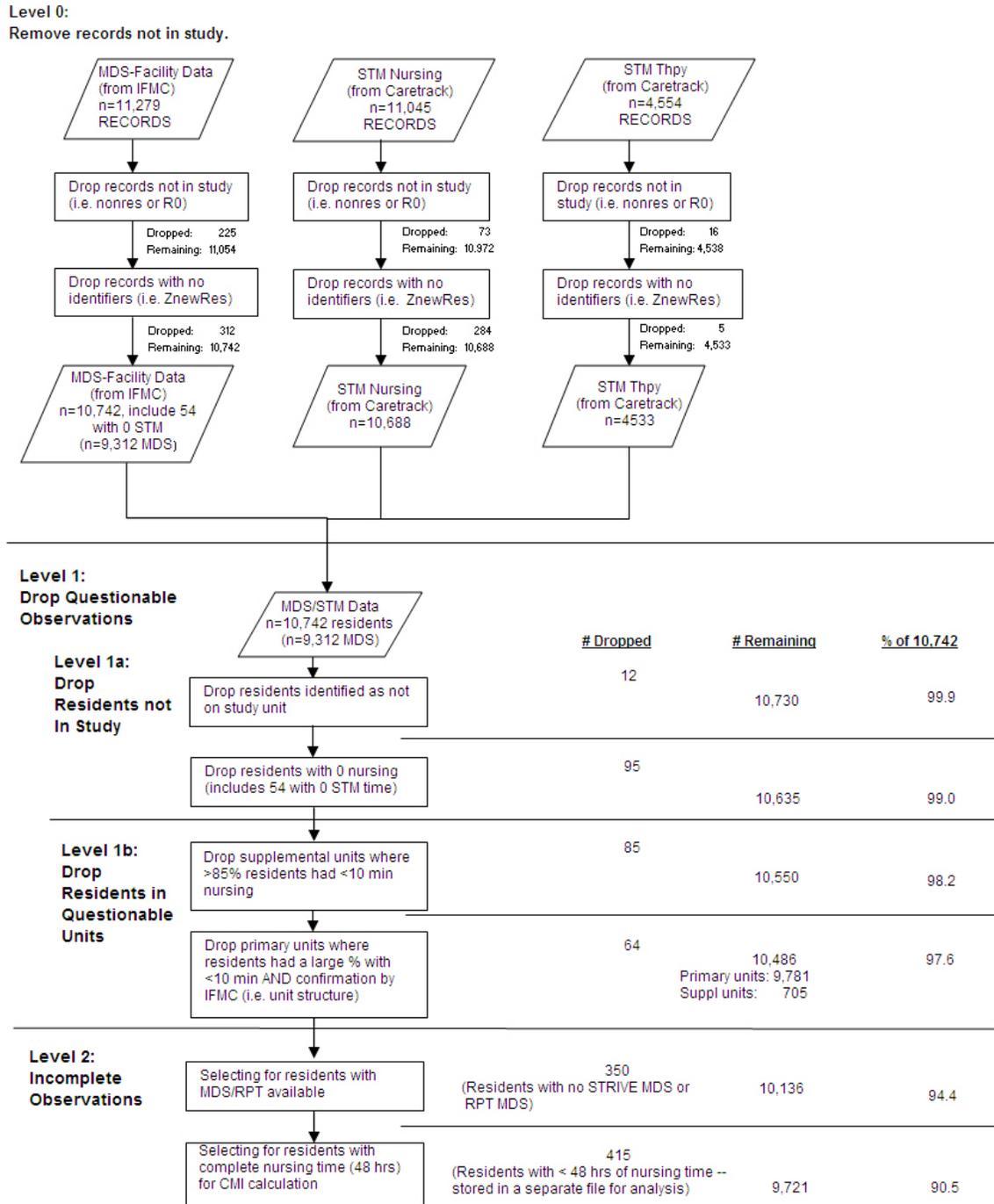
Decision for Gap Use:

Over 30 min is discarded and gap time 30 min or less is included into the NRST time.

11-27-07 Received revised NRST from Caretrack:

# A-21:STRIVE N of Cases

Figure 30. STRIVE Number of Cases Determination Flow



## A-22: STRIVE ICD-9 Code Labels

Table 44. ICD-9 Code Labels

Note: ICD9 Codes in first column come from STRIVE 50% data. See below for additional notes.

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
1	Cholera	3	3		added 2 leading zeros, takes 4 digits, should be 0,1, or 9. New Infection - NO
3	Infections	1			added 2 leading zeros, takes four or five digits-TZ
3.21	Infections	1			added 2 leading zeros-TZ
4.1	Infections	1			added 2 leading zeros-TZ
5.1	Infections	1			added 2 leading zeros-TZ
7	Infections	1			added 2 leading zeros, takes four digits, should be 0,1,2,3,4,5,8, or 9-TZ
8.45	Clostridium difficile (c diff)	3	3	I 2. Infections	Current Infection I2B (from Oct 1995 MDS Manual). 040 in 1995 MDS Man
8.87	Infections	1			added 2 leading zeros, only takes four digits-TZ
9	Infections	1			added 2 leading zeros, takes four digits, should be 0,1,2, or 3-TZ
11.9	Tuberculosis	0		I 2. Infections	added leading zero, takes five digits, should be 0,1,2,3,4,5, or 6-TZ
18.81	Tuberculosis	1	1	I 2. Infections	Current Infection I2I (from Oct 1995 MDS Manual)),
24.5	Infections	1			added leading zero-TZ
27.2	Infections	1			added leading zero-TZ
28.87	Not valid	1			
31	Infections	1			added leading zero takes four digits, 0,1,2,8, or 9-TZ
35.24	Infections	1			added leading zero, only takes three digits-TZ
36.17	infections	1			added leading zero, only takes four digits, no 7-TZ
37.7	Infections	1			added leading zero, only takes three digits, no 7-TZ
38.7	Not valid	1			
38.9	Septicemia	5	5	I 2. Infections	Current Infection I2G-added leading zero-TZ
40	Infections	1			added leading zero, takes four or five digits, should be 0,1,2,3,81,82, or 89-TZ
41.11	Antibiotic resistant infect	1		I 2. Infections	chgd from 10%-TZ--add lead 0s-needs an add V09.0 to show drug resist-I2A
41.19	Antibiotic resistant infect	1		I 2. Infections	chgd from 10%-TZ--add lead 0s-needs an add V09.0 to show drug resist-I2A
41.4	Infections	1			added leading zero-TZ
41.5	Infections	1			added leading zero-TZ
41.85	infections	1			added leading zeros-TZ
41.89	Infections	3			added leading zeros-TZ
41.9	Antibiotic resistant infect	1	3	I 2. Infections	Current Infection I2A (from Oct 1995 MDS Manual)-changed TZ,
41.93	Not valid	1			Now is 041.11 Or 041.19 and V09.0
42	HIV Infection	3	3	I 2. Infections	Current Infection I2D (from Oct 1995 MDS Manual). Added leading zero-
42.92	Not valid	1			
45.9	Infections	2			added leading zero-TZ
46.11	Infections	1			only takes four digits, no second 1-TZ
46.3	Infections	1			added leading zero-TZ
50	Infections	1			added leading zero,takes for digit, should be 0,1,2, or 9-TZ
53.13	Infections	1			added leading zero,Herpes Zoster
53.19	Infections	4			added leading zero Herpes Zoster, Other
53.71	Infections	1			Herpes Zoster
53.9	Infections	8			Herpes Zoster, no compl NOS
54.3	Infections	1			Herpes Simplex
54.9	Infections	2			Herpes Simplex

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
57.89	Infections	2			added leading zero, only takes four digits-TZ
70	Viral hepatitis	1		I 2. Infections	added leading zero-takes 4 or 5 digits-TZ. Current infection I2K
70.1	Viral hepatitis	1		I 2. Infections	added leading zero-TZ-I2K
70.3	Viral Hepatitis	2		I 2. Infections	added leading zero-TZ-I2K
70.51	Viral Hepatitis	6		I 2. Infections	added leading zero-TZ-I2K
70.54	Viral hepatitis	3		I 2. Infections	added leading zero-TZ-I2K
70.59	Viral hepatitis	1		I 2. Infections	added leading zero-TZ-I2K
70.7	Viral hepatitis	2	16	I 2. Infections	Current Infection I2K- should be 070.7-TZ
78.0178	Infections	1			added leading zero, only takes four digits-TZ
78.5	Infections	2			added leading zero-TZ
79.99	Infections	1			added leading zero-TZ
81.51	Procedure Code	1			
81.53	Procedure Code	2			
85	Infections	1			added leading zero-TZ
87.2	Procedure Code	2			
88.81	Infections	1			added leading zero-TZ. I2H
94	syphilis - Sex Trans diseases	1		I 2. Infections	added leading zero-TZ starts with 090-099 = syphilis. I2H
95.8	syphilis - Sex Trans diseases	1		I 2. Infections	added leading zero-TZ. I2H
96.5178	Not valid	1			
97.1	syphilis - Sex Trans diseases	1		I 2. Infections	added leading zero-TZ. I2H
97.9	syphilis - Sex Trans diseases	1		I 2. Infections	added leading zero-TZ. I2H
98.2	Sexually Transmitted diseases	1		I 2. Infections	chgd from 10%-TZ. I2H
99.9	Sexually Transmitted diseases (unspecified)	0	5	I 2. Infections	Current Infection I2H (from Oct 1995 MDS Manual)
107.09	Not valid	1			
110.01	Infections	1			only takes four digits, should be 0,1,2,3,4,5,6,8, or 9-TZ
110.4	Infections	2			
110.9	Infections	1			
112	Infections	6			Candidiasis. Takes four or five digits, 0,1,2,3,4, 5,81,82,83,84,85, 89 or 9-TZ
112.3	Infections	1			Candidiasis
112.84	Infections	2			Candidiasis
112.9	Infections	2			Candidiasis
115.9	Infections	1			takes 5 digits,0,1,2,3,4,5, or 9-TZ
115.92	Infections	1			
117.3	Infections	1			
117.5	infections	1			
121.1	Infections	1			
124.13	Infections	1			only takes three digits-TZ
130.7	Infections	2			
136.1	Infections	1			
136.3	Pneumonia	3		I2. Infections	Pneumonia. Coded with 482.83 etc below...
137.1	Infections	1			Late effects
138	Infections	6			Late effects
139.8	Infections	2			Late effects
143.3	Cancer	2		Other	invalid 4th digit, should be 0,1,2,8,or 9-TZ
143.64	Cancer	1		Other	only takes four digits, should be 0,1,2,8, or 9-TZ
143.65	Cancer	1		Other	only takes four digits, should be 0,1,2,8, or 9-TZ
145.81	Cancer	4		Other	only takes four digits, should be 0,1,2,3,4,5,6,8, or 9-TZ
146.11	Cancer	2		Other	chgd from 10%-TZ- only takes four digits, should be 0,1,2,3,4,5,6,7,8, or 9-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
149	Cancer	1		Other	takes 4th digit-TZ should be 4th 0 1 8 9
150.9	Cancer	2		Other	
153.9	Cancer	4		Other	
154	Cancer	4		Other	takes 4th digit-TZ should be 0,1,2,3, or 8 -TZ
154.1	Cancer	3		Other	
154.13	Cancer	1		Other	only takes four digits, should be 0,1,2,3, or 8-TZ
156.2	Cancer	1		Other	
157.1	Cancer	1		Other	
157.9	Cancer	1		Other	
158.49	Cancer	5		Other	only takes four digits, should be 0,8, or 9-TZ
159	Cancer	1		Other	takes 4th digit, should be 0,1,8, or 9-TZ
161.9	Cancer	2		Other	
162.3	Cancer	1		Other	
162.9	Cancer	15		Other	
164.9	Cancer	1		Other	
166.7	Not valid	2			
170.9	Cancer	2		Other	
171.6	Cancer	1		Other	
172.6	Cancer	1		Other	
172.7	Cancer	1		Other	
172.9	Cancer	1		Other	
173.3	Cancer	2		Other	
173.4	Cancer	1		Other	
173.9	Cancer	3		Other	
174.8	Cancer	1		Other	
174.9	Cancer	12		Other	
177.5	Not valid	1			
179	Cancer	1		Other	
180.9	Cancer	2		Other	
182	Cancer	2		Other	takes 4th digit, should be 0,1, or 8-TZ
183	Cancer	5		Other	takes 4th digit, should be 0,1,2,3,4,5,8, or 9-TZ
185	Cancer	25		Other	
187.4	Cancer	1		Other	
188.9	Cancer	6		Other	
189	Cancer	4		Other	takes 4th digit, should be 0,1,2,3,4, or 8-TZ
189.3	Cancer	1		Other	
191	Cancer	1		Other	takes 4th digit, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
191.9	Cancer	5		Other	
194.3	Cancer	1		Other	
195	Cancer	2		Other	takes 4th digit, should be 0,1,2,3,4,5, or 8-TZ
196.2	Cancer	1		Other	
196.5	Cancer	1		Other	
196.6	Cancer	1		Other	
197	Cancer	5		Other	takes fourth digit, should be 0,1,2,3,4,5,6,7, or 8-TZ
197.01	Cancer	1		Other	only takes four digits-TZ
197.2	Cancer	1		Other	
197.7	Cancer	1		Other	
198	Cancer	1		Other	takes four or five digits, should be 0,1,2,3,4,5,6,7,81,82, or 89-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
198.2	Cancer	1		Other	
198.3	Cancer	5		Other	
198.5	Cancer	2		Other	
198.81	Cancer	1		Other	
198.89	Cancer	2		Other	
199.1	Cancer	5		Other	
201.9	Cancer	1		Other	takes 5th digit, should be 0,1,2,3,4,5,6,7, or 8-TZ
202.1	Cancer	1		Other	takes 5th digit, should be 0,1,2,3,4,5,6,7, or 8-TZ
202.8	Cancer	4		Other	takes 5th digit, should be 0,1,2,3,4,5,6,7, or 8-TZ
203	Cancer	3		Other	takes 4th & 5th digits, should be 0,1, or 8 for 4th and 0 or 1 for 5th-TZ
203.1	Cancer	1		Other	takes 5th digit, should be 0 or 1-TZ
204.1	Cancer	4		Other	takes 5th digit, should be 0 or 1-TZ
204.11	Cancer	1		Other	
204.7	Not valid	1			
205.9	Cancer	1		Other	takes 4th and 5th digits, should be 0,1,2,3,8, or 9 for 4th an 0 or 1 for 5th-TZ
207.9	Not valid	1			
208.91	Cancer	1		Other	
211.1	Cancer	1		Other	
211.3	Cancer	6		Other	
212	Cancer	1		Other	takes 4th digit, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
214.1	Cancer	1		Other	
215.2	Cancer	1		Other	
215.95	Cancer	1		Other	invalid, no 5th digit required-TZ
222.2	Cancer	2		Other	
223	Cancer	1		Other	takes 4or5 digits, should be0,1,2,3, or 9 for 4th and 81 Or 89 for 4th & 5th -TZ
224.5	Cancer	1		Other	
225	Cancer	1		Other	takes 4th digit, should be 0,1,2,3,4,8, or 9-TZ
225.2	Cancer	2		Other	
227	Cancer	1		Other	takes 4th digit, should be 0,1,3,4,5,6,8, or9-TZ
227.3	Cancer	1		Other	
228.87	Not valid	1		Other	chgd from 10 %-TZ
231.2	Cancer	1		Other	
232	Cancer	1		Other	takes 4th digit, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
232.9	Cancer	2		Other	
233	Cancer	1		Other	takes 4th digit, should be 0,1,2,3,4,5,6,7, or 9-TZ
233.4	Cancer	5		Other	
235.4	Cancer	1		Other	
236.5	Cancer	3		Other	
236.9	Cancer	1		Other	takes 5th digit should be 0,1, or 9-TZ
237.5	Cancer	1		Other	
237.7	Cancer	3		Other	takes 5th digit, should be 0,1, or 2-TZ
238.4	Cancer	2		Other	
238.7	Cancer	6		Other	takes 5th digit, should be 1,2,3,4,5,6, or 7-TZ
238.75	Cancer	1		Other	
239	Cancer	4		Other	takes 4th digit, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
239.1	Cancer	1		Other	
239.2	Cancer	3		Other	
239.4	Cancer	1		Other	
239.5	Cancer	9		Other	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
239.6	Cancer	4		Other	
239.7	Cancer	2		Other	
239.8	Cancer	1	235	Other	Current Dx I1PP
240.9	Endocrine disorder	2		Endocrine/Metabolic/Nutritional	
241	Endocrine disorder	1		Endocrine/Metabolic/Nutritional	takes 4th digit, should be 0,1, or 9-TZ
242	Endocrine disorder	2		Endocrine/Metabolic/Nutritional	See 255.4. takes 4&5 digits, should be 0-4,8, or 9 for 4th & 0 or 1 for 5th-TZ
242.3	Endocrine disorder	1		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0 or 1-TZ
242.9	Hyperthyroidism	4	4	Endocrine/Metabolic/Nutritional	Current Dx I1B Takes 5th digit, should be 0 or 1 -TZ
243	Hypothyroidism	1		Endocrine/Metabolic/Nutritional	
244.9	Hypothyroidism	25	26	Endocrine/Metabolic/Nutritional	Current Dx I1C
245.9	Endocrine disorder	1		Endocrine/Metabolic/Nutritional	
250	Diabetes melitus	59		Endocrine/Metabolic/Nutritional	takes 4th & 5th digits, 0 - 9, for 4th and 0 - 3 for 5th-TZ
250.01	Diabetes melitus	10		Endocrine/Metabolic/Nutritional	
250.02	Diabetes melitus	9		Endocrine/Metabolic/Nutritional	
250.03	Diabetes melitus	1		Endocrine/Metabolic/Nutritional	
250.1	Diabetes melitus	1		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1,2, or 3-TZ
250.12	Diabetes melitus	1		Endocrine/Metabolic/Nutritional	
250.4	Diabetes melitus	15		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1,2, or 3-TZ
250.5	Diabetes melitus	5		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1,2, or 3-TZ
250.52	Diabetes melitus	1		Endocrine/Metabolic/Nutritional	
250.6	Diabetes melitus	22		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1,2, or 3-TZ
250.61	Diabetes melitus	3		Endocrine/Metabolic/Nutritional	
250.62	Diabetes melitus	1		Endocrine/Metabolic/Nutritional	
250.7	Diabetes melitus	4		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1,2, or 3-TZ
250.72	Diabetes melitus	1		Endocrine/Metabolic/Nutritional	
250.8	Diabetes melitus	4		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1,2, or 3-TZ
250.81	Diabetes melitus	1		Endocrine/Metabolic/Nutritional	
250.9	Diabetes melitus	1	139	Endocrine/Metabolic/Nutritional	Current Dx I1A (Also see code 362 - Diabetic retinopathy).
251.2	Endocrine disorder	5		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1,2, or 3-TZ
251.8	Endocrine disorder	2		Endocrine/Metabolic/Nutritional	
252	Endocrine disorder	6		Endocrine/Metabolic/Nutritional	takes 4th & 5th digits -- 0,1,8, or 9 for 4th, 252.0, 5th digits 0,1,2, or 8-TZ
252.01	Endocrine disorder	2		Endocrine/Metabolic/Nutritional	
252.8	Endocrine disorder	1		Endocrine/Metabolic/Nutritional	
253.2	Endocrine disorder	4		Endocrine/Metabolic/Nutritional	
253.5	Endocrine disorder	3		Endocrine/Metabolic/Nutritional	
253.6	Endocrine disorder	4		Endocrine/Metabolic/Nutritional	New Dx -- NO
255.4	Endocrine disorder	8		Endocrine/Metabolic/Nutritional	*Added code 242 to total frequency.
255.41	Endocrine disorder	2		Endocrine/Metabolic/Nutritional	only takes 4 digits, no 5th of 1-TZ
256.4	Endocrine disorder	1		Endocrine/Metabolic/Nutritional	
257.2	Testicular dysfunction	1	1	Endocrine/Metabolic/Nutritional	New Dx -- NO
263	Malnutrition	1		Endocrine/Metabolic/Nutritional	takes 4th digit, should be 0,1,2,8, or 9-TZ
263.1	Malnutrition	1		Endocrine/Metabolic/Nutritional	
263.9	Malnutrition	19	21	Endocrine/Metabolic/Nutritional	New Dx -- NO
264	Vitamin deficiency	1		Endocrine/Metabolic/Nutritional	takes 4th digit, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
265.1	Vitamin deficiency	2		Endocrine/Metabolic/Nutritional	
265.9	Vitamin deficiency	1		Endocrine/Metabolic/Nutritional	invalid 4th digit, only 0,1, or 2-TZ
266.2	Vitamin deficiency	25		Endocrine/Metabolic/Nutritional	
266.21	Vitamin deficiency	1		Endocrine/Metabolic/Nutritional	only takes 4 digits, no 5th of 1-TZ
266.9	Vitamin deficiency	1		Endocrine/Metabolic/Nutritional	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
268.2	Vitamin deficiency	3		Endocrine/Metabolic/Nutritional	
268.9	Vitamin deficiency	1		Endocrine/Metabolic/Nutritional	
269.2	Vitamin deficiency	3	38	Endocrine/Metabolic/Nutritional	New Dx
269.8	Nutritional deficiency	3		Endocrine/Metabolic/Nutritional	
269.9	Nutritional deficiency	9	12	Endocrine/Metabolic/Nutritional	New Dx??
270.2	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	
270.4	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	New Dx -- NO
271.03	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	takes only 4 digits, no 5th digit required-TZ
271.1	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	*Added code 273.8, 275 - 275.49, 277.9.
271.3	Metabolism disorder	4		Endocrine/Metabolic/Nutritional	
272	Hyperlipidemia	107		Endocrine/Metabolic/Nutritional	takes 4 digits, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
272.01	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	takes only 4 digits, should be 0,1,2,3,4,5,6,7,8, or 9, no 5th required-TZ
272.04	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	takes only 4 digits, should be 0,1,2,3,4,5,6,7,8, or 9, no 5th digit required-TZ
272.1	Hyperlipidemia	3		Endocrine/Metabolic/Nutritional	
272.2	Hyperlipidemia	4		Endocrine/Metabolic/Nutritional	
272.34	Hyperlipidemia	1		Endocrine/Metabolic/Nutritional	takes only 4 digits, should be 0,1,2,3,4,5,6,7,8, or 9, no 5th digit required-TZ
272.4	Hyperlipidemia	338		Endocrine/Metabolic/Nutritional	
272.44	Hyperlipidemia	1	454	Endocrine/Metabolic/Nutritional	New Dx. Takes only 4 digits, 0,1,2,3,4,5,6,7,8, or 9, no 5th digit required-TZ
272.7	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	
272.9	Metabolism disorder	4		Endocrine/Metabolic/Nutritional	
273.8	Metabolism disorder	2		Endocrine/Metabolic/Nutritional	See 271.1
274	Gout	12		Endocrine/Metabolic/Nutritional	takes 4 or 5 digits, should be 01,10,11,19,274.81,82,89 or 9-TZ
274.4	Gout	1			
274.9	Gout	64		Endocrine/Metabolic/Nutritional	
GOUT	Gout 274.9	1	77	Endocrine/Metabolic/Nutritional	New Dx
275	Metabolism disorder	2		Endocrine/Metabolic/Nutritional	takes 4 or 5 digits, should be 01,10,11,19,274.81,82,89 or 9-TZ
275.2	Metabolism disorder	6		Endocrine/Metabolic/Nutritional	
275.3	Metabolism disorder	3		Endocrine/Metabolic/Nutritional	
275.4	Metabolism disorder	2		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1,2, or 9-TZ
275.41	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	
275.42	Metabolism disorder	6		Endocrine/Metabolic/Nutritional	
275.49	Metabolism disorder	2		Endocrine/Metabolic/Nutritional	See 271.1
276	Electrolyte Imbalance	3		Endocrine/Metabolic/Nutritional	takes 4 or 5 digits, should be 0,1,2,3,4,50,51,52,6,7,8, or 9-TZ
276.1	Electrolyte Imbalance	34		Endocrine/Metabolic/Nutritional	
276.2	Electrolyte Imbalance	4		Endocrine/Metabolic/Nutritional	
276.5	Dehydration	4		Problem Condition	takes 5 digits, should be 0,1, or 2-TZ
276.51	Dehydration	5	9	Problem Condition	Current Health Condition J1C
276.7	Electrolyte Imbalance	11		Endocrine/Metabolic/Nutritional	
276.8	Electrolyte Imbalance	45		Endocrine/Metabolic/Nutritional	
276.82	Electrolyte Imbalance	1		Endocrine/Metabolic/Nutritional	takes only 4 digits, no 2-TZ
276.9	Electrolyte Imbalance	1	42	Endocrine/Metabolic/Nutritional	New Dx -- NO
277.3	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	takes 5th digit, should be 0,1, or 9-TZ
277.4	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	
277.87	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	
277.9	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	See 271.1
278	Obesity	58		Endocrine/Metabolic/Nutritional	takes 4 or 5 digits, should be 00,01,02,1,2,3,4, or 8-TZ
278.01	Obesity	24	82	Endocrine/Metabolic/Nutritional	New Dx -- NO
278.61	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	no 5th digit required-TZ
278.8	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
278.81	Metabolism disorder	1		Endocrine/Metabolic/Nutritional	no 5th digit required-TZ
279.3	Immunity disorder	1	1	Endocrine/Metabolic/Nutritional/ Immunity	
280	Anemia	2		Other	takes 4th digit, should be 0,1,8, or 9-TZ
280.1	Anemia	1		Other	
280.79	Invalid Code	1		Other	
280.8	Anemia	1		Other	
280.9	Anemia	5		Other	
281	Anemia	10		Other	takes 4 digits, should be 0,1,2,3,4,8, or 9-TZ
281.1	Anemia	3		Other	
281.9	Anemia	4		Other	
283	Anemia	1		Other	takes 4 or 5 digits, should be 0,10,11,19,2, or 9-TZ
284.1	Blood disorder	1		Other	
284.5	Anemia	1		Other	invalid 4th digit-TZ
284.8	Anemia	2		Other	
285	Anemia	1		Other	takes 4 or 5 digits, should be 0,1,21,22,29,8, or 9-TZ
285.1	Anemia	2		Other	
285.21	Anemia	2		Other	
285.29	Anemia	3		Other	
285.9	Anemia	34		Other	
285.99	Anemia	1	74	Other	Current Dx 1100 takes only 4 digits-TZ
286	Blood disorder	1		Other	takes 4 digits, should be 0,1,2,3,4,5,6,7, or 9-TZ
286.09	Blood disorder	1		Other	takes only 4 digits, should be 0,1,2,3,4,5,6,7, or 9-TZ
286.3	Blood disorder	1		Other	
286.5	Blood disorder	11		Other	
286.85	Blood disorder	1		Other	takes 4 digits, no 5th-TZ
286.9	Blood disorder	2		Other	
287.05	Blood disorder	1		Other	takes 4 digits no 5th-TZ
287.1	Blood disorder	1		Other	
287.3	Blood disorder	2		Other	takes 5 digits, should be 0,1,2,3, 4,5,8 or 9-TZ
287.5	Blood disorder	10		Other	
288	Blood disorder	3		Other	takes 4 or 5 digits, should be 00 - 04,09,1 - 4,50,51,59,60 - 65,69,8, or 9-TZ
288.3	Blood disorder	1		Other	
288.6	Blood disorder	5		Other	takes 5 digits, should be 0,1,2,3,4,5, or 9-TZ
288.8	Blood disorder	7		Other	
288.9	Blood disorder	1		Other	
289.89	Blood disorder	1		Other	
289.9	Blood disorder	6	56	Other	New Dx??
290	Dementia	20		Neurological	takes 4 or 5 digits, should be 0,10,11,12,13,20,21,40,41,42,43,8, or 9-TZ
290.1	Dementia	6		Neurological	takes 5th digit, should be 0,1,2, or 3-TZ
290.12	Dementia	1		Neurological	
290.13	Dementia	1		Neurological	
290.2	Dementia	18		Neurological	takes 5th digit, should be 0 or 1-TZ
290.21	Dementia	4		Neurological	
290.3	Dementia	2		Neurological	
290.4	Dementia	30		Neurological	takes 5th digit, should be 0,1,2, or 4-TZ
290.41	Dementia	1		Neurological	
290.42	Dementia	5		Neurological	
290.43	Dementia	1		Neurological	See 294.1 for more Dementia

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
290.8	Psychoses	1		Psychiatric/Mood	
290.9	Psychoses	4		Psychiatric/Mood	See 298.9
291.1	Mental disorder	4		Psychiatric/Mood	
291.2	Mental disorder	14		Psychiatric/Mood	
291.5	Psychoses	1		Psychiatric/Mood	
291.81	Mental disorder	4		Psychiatric/Mood	
291.9	Mental disorder	1		Psychiatric/Mood	
292.11	Psychoses	2		Psychiatric/Mood	
292.8	Mental disorder	1		Psychiatric/Mood	takes 5th digit, should be 1,2,3,4,5, or 9-TZ
292.82	Mental disorder	1		Psychiatric/Mood	
292.9	Mental disorder	1		Psychiatric/Mood	
293	Mental disorder	1		Psychiatric/Mood	takes 4 or 5 digits, should be 0,1,81,82,83,84, or 89-TZ
293.81	Mental disorder	5		Psychiatric/Mood	
293.82	Psychoses	1		Psychiatric/Mood	
293.83	Psychoses	4		Psychiatric/Mood	
293.84	Psychoses	4		Psychiatric/Mood	New Dx -- No
293.89	Psychoses	2		Psychiatric/Mood	*Added codes 294.8 - 294.9 and 310.9.
293.9	Psychoses	1	10	Psychiatric/Mood	
294	Dementia	3		Neurological	takes 4 or 5 digits, should be 0,10,11,8, or 9-TZ
294.1	Dementia	28		Neurological	takes 5 digits, should be 0 or 1-TZ
294.11	Dementia	83		Neurological	
294.115	Dementia	1	201	Neurological	Current Dx 11U, Takes only 5 digits -- not the "5" -TZ
294.8	Mental disorder	76		Psychiatric/Mood	*Added codes 294.1 - 294.115 to total.
294.9	Mental disorder	10		Psychiatric/Mood	See 293.89
295	Schizophrenia	3		Psychiatric/Mood	takes 5 digits, should be for 4th 0 -8, or 9 and 5th 0,1,2,3,4, or 5-TZ
295.04	Schizophrenia	1		Psychiatric/Mood	
295.1	Schizophrenia	1		Psychiatric/Mood	takes 5th digit, should be 0,1,2,3,4, or 5-TZ-TZ
295.3	Schizophrenia	8		Psychiatric/Mood	takes 5th digit, should be 0,1,2,3,4, or 5-TZ
295.32	Schizophrenia	2		Psychiatric/Mood	
295.4	Schizophrenia	1		Psychiatric/Mood	takes 5th digit, should be 0,1,2,3,4, or 5-TZ
295.5	Schizophrenia	1		Psychiatric/Mood	takes 5th digit, should be 0,1,2,3,4, or 5-TZ
295.64	Schizophrenia	1		Psychiatric/Mood	
295.7	Schizophrenia	5		Psychiatric/Mood	takes 5th digits, should be 0,1,2,3,4, or 5-TZ
295.72	Schizophrenia	1		Psychiatric/Mood	
295.9	Schizophrenia	12	36	Psychiatric/Mood	Current Dx 11GG takes 5th digit, should be 0 - 4 or 5 - TZ
296	Major Depression/Bipolar	2		Psychiatric/Mood	takes 4 or 5 digits, should be for 4th 0, - 8, or 9, and 5th 0 - 6 or 9-TZ
296.2	Major Depression/Bipolar	1		Psychiatric/Mood	takes 5th digit, should be 0,1,2,3,4,5,6,7 -TZ
296.23	Major Depression/Bipolar	1		Psychiatric/Mood	
296.3	Major Depression/Bipolar	2		Psychiatric/Mood	takes a 5th digit, should be 0,1,2,3,4,5, or 6-TZ
296.31	Major Depression/Bipolar	1		Psychiatric/Mood	
296.32	Major Depression/Bipolar	1		Psychiatric/Mood	
296.34	Major Depression/Bipolar	2		Psychiatric/Mood	
296.44	Major Depression/Bipolar	2		Psychiatric/Mood	
296.6	Major Depression/Bipolar	1		Psychiatric/Mood	takes 5th digit, should be 0,1,2,3,4,5, or 6-TZ-TZ
296.7	Major Depression/Bipolar	2		Psychiatric/Mood	
296.8	Major Depression/Bipolar	9		Psychiatric/Mood	takes 5th digit, should be 0,1,2, or 9-TZ
296.82	Major Depression/Bipolar	1	25	Psychiatric/Mood	Current Dx 11FF
296.9	Psychoses	17		Psychiatric/Mood	takes 5th digit, should be 0 or 9-TZ
296.99	Mood Disorder	1	1	Psychiatric/Mood	Does this go with another mood disorder? No.

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
297	Delusions	2		Problem Condition	takes 4th digit, should be 0,1,2,3,8, or 9-TZ
297.1	Delusions	25		Problem Condition	
297.11	Delusions	1	28	Problem Condition	Current Health Condition JIE only takes 4 digits no extra 1 -- TZ
297.9	Psychoses	13		Psychiatric/Mood	
298	Psychoses	10		Psychiatric/Mood	takes 4th digit, should be 0,1,2,3,4,8, or 9-TZ
298.3	Psychoses	2		Psychiatric/Mood	
298.39	Psychoses	1		Psychiatric/Mood	takes only 4 digits, no extra 9-TZ
298.8	Psychoses	9		Psychiatric/Mood	
298.9	Psychoses	175		Psychiatric/Mood	*Added codes 290.8 - 290.9 to total freq.
299	Psychoses	1	228	Psychiatric/Mood	New Dx. Takes 5 digits, should be for 4th 0,1,8, or 9 and 5th 0 or 1-TZ
299.4	Not valid	1			
300	Anxiety disorder	34		Psychiatric/Mood	takes 4th & 5th digits, should be 00,01,02,09,10,11,12,13,14,15,16, and 19-TZ
300.01	Anxiety disorder	7		Psychiatric/Mood	
300.02	Anxiety disorder	8		Psychiatric/Mood	
300.09	Anxiety disorder	1	50	Psychiatric/Mood	Current Dx I1DD
300.11	Hysterical Dizziness	1	1	Psychiatric/Mood	see also 780.4, 780.41 This could go with Anxiety Disorder..... -TZ
300.2	Neurotic disorder	1		Psychiatric/Mood	takes 5 digits, should be 0,1,2,3, or 9-TZ
300.21	Neurotic disorder	1		Psychiatric/Mood	
300.3	Neurotic disorder	10		Psychiatric/Mood	
300.4	Neurotic disorder	12		Psychiatric/Mood	
300.82	Neurotic disorder	2		Psychiatric/Mood	
300.9	Neurotic disorder	2	28	Psychiatric/Mood	New Dx
301	Personality disorder	4		Psychiatric/Mood	takes 4th & 5th digits, 0,10 -13,20,21,22,3,4,50,51,59,6,7,81 - 84,89, or 9-TZ
301.1	Personality disorder	1		Psychiatric/Mood	takes 5th digit, should be 0,1,2, or 3-TZ
301.3	Personality disorder	3		Psychiatric/Mood	
301.6	Personality disorder	2		Psychiatric/Mood	
301.7	Personality disorder	1		Psychiatric/Mood	
301.81	Personality disorder	1		Psychiatric/Mood	
301.83	Personality disorder	1		Psychiatric/Mood	
301.9	Personality disorder	5	18	Psychiatric/Mood	New Dx -- NO
302.9	Sexual/Gender disorder	1	1	Psychiatric/Mood	New Dx -- NO
303	Alcohol dependence	2		Psychiatric/Mood	takes 4th & 5th digits, should be 00,01,02,03,90,91,92 or 93-TZ
303.9	Alcohol dependence	31		Psychiatric/Mood	takes 5th digit, should be 0,1,2, or 3 -TZ
303.91	Alcohol dependence	5	38	Psychiatric/Mood	New Dx -- NO
304	Drug dependence	4		Psychiatric/Mood	takes 4th & 5th digits, should be 00,01,02,03,10 - 13,20,21,22,23,30 - 33
304.01	Drug dependence	1		Psychiatric/Mood	40 - 43,50 - 53,60 - 63,70 - 73,80,81,82,83,90,91,92, or 93-TZ
304.02	Drug dependence	1		Psychiatric/Mood	
304.6	Drug dependence	5		Psychiatric/Mood	takes 5th digit, should be 0,1,2, or 3-TZ
304.83	Drug dependence	1		Psychiatric/Mood	
304.9	Drug dependence	7	19	Psychiatric/Mood	New Dx?? takes 5th digit, should be 0,1,2, or 3-TZ
305	Non depend drug abuse	23		Psychiatric/Mood	takes 4 and 5 digits, should be 00 - 03,20 - 23,30 - 33,40 - 43,50 - 53,
305.01	Non depend drug abuse	2		Psychiatric/Mood	,60 - 63,70,71,72,73,80,81,82,83,90,91,92, or 93-TZ
305.1	Non depend drug abuse	21		Psychiatric/Mood	
305.13	Non depend drug abuse	1		Psychiatric/Mood	
305.2	Non depend drug abuse	1		Psychiatric/Mood	takes 5th digit, should be 0,1,2, or 3-TZ
305.5	Non depend drug abuse	4		Psychiatric/Mood	
305.6	Non depend drug abuse	4		Psychiatric/Mood	takes 5th digit, should be 0,1,2, or 3-TZ
305.7	Non depend drug abuse	1		Psychiatric/Mood	takes 5th digit, should be 0,1,2, or 3-TZ
305.9	Non depend drug abuse	8	65	Psychiatric/Mood	New Dx takes 5th digit, should be 0,1,2, or 3-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
307	Special symptoms or syndromes	1	1	Psychiatric/Mood	takes 4 or 5 digits, should be 0,1,20 - 23,3,40 - 53,55,59,6,7,80,81,89,9-TZ
307.1	Eating disorders	1		Psychiatric Mood	
307.23	Tics	2	2	Psychiatric/Mood	
307.41	Sleep disorders	5		Psychiatric/Mood	New Dx -- NO Is this sleep apnea? No
307.42	Sleep disorders	2		Psychiatric /Mood	(See code 327.24) No, it's insomnia, no apnea invloved
307.5	Eating disorders	1	2	Psychiatric/Mood	New Dx -- NO takes 5th digit, should be 0,1,2,3,4, or 9-TZ
307.81	Special symptoms or syndromes	1	1	Psychiatric/Mood	
307.9	Oth/unspe sympt/syndromes	51	51	Psychiatric/Mood	New Dx -- NO
308.2	Acute reaction to stress	2	2	Psychiatric/Mood	
309	Adjustment reactions	1		Psychiatric/Mood	takes 4 or 5digits, should be 0,1,21,22,23,24,28,29,3, 4,81,82,83, or 9-TZ
309.1	Adjustment reactions	2		Psychiatric/Mood	
309.28	Adjustment reactions	1		Psychiatric?Mood	
309.3	Adjustment reactions	1		Psychiatric/Mood	
309.4	Adjustment reactions	2		Psychiatric/Mood	New Dx -- NO
309.81	Adjustment reactions	1		Psychiatric/Mood	
309.9	Adjustment reactions	2	10	Psychiatric/Mood	
310.1	Mental disorder	4		Psychiatric/Mood	
310.3	Not valid	1		Psychiatric/Mood	
310.9	Mental disorder	18	23	Psychiatric/Mood	Is Col E Phychiatric/Mood? See 393.89 Yes, I changed - TZ
311	Depression	38		Psychiatric/Mood	
311.4	Depression	1	39	Psychiatric/Mood	Current Dx I1EE. No 4th digit req-TZ
312	Conduct disturbance	1		Psychiatric/Mood	takes 4th or 5th digits --00 - 03,10 - 13,20 - 23,30 - 35,39,4,81,82,89,9-TZ
312.3	Conduct disturbance	3		Psychiatric/Mood	takes 5th digit, should be 0,1,2,3,4,5, or 9-TZ
312.34	Conduct disturbance	1		Psychiatric/Mood	
312.39	Conduct disturbance	1		Psychiatric/Mood	
312.9	Conduct disturbance	15	21	Psychiatric/Mood	New Dx
314	Hyperkinitic syndrome	2	2	Psychiatric/Mood	takes 4th or 5th digits, should be 00,01,1,2,8, or 9-TZ
315.31	Developmental delay	1		Psychiatric/Mood	New Dx - NO
315.9	Developmental delay	3	4	Psychiatric/Mood	
317	Mental retardation	15		Psychiatric/Mood	
318	Mental retardation	6		Psychiatric/Mood	takes 4 digits, should be 0,1, or 2-TZ
318.1	Mental retardation	4		Psychiatric/Mood	
318.2	Mental retardation	6		Psychiatric/Mood	
318.3	Not valid	1			
319	Mental retardation	49		Psychiatric/Mood	
319.01	Mental retardation	1	81	Psychiatric/Mood	New Dx - only takes 3 digits-TZ
319.45	Mental Retardation	1			only takes 3 digits-TZ
321	Disease central nervous system	2		Neurological	takes 4th digit, should be 0,1,2,3,4, or 8, code first underlying disease-TZ
323.9	Disease central nervous system	5		Neurological	
324	Disease central nervous system	2	9	Neurological	takes 4th digit, should be 0,1, or 9-TZ
327.01	Sleep disorders	3		Psychiatric/Mood	Is this sleep apnea? No apnea, insomnia
327.23	Sleep disorders	8		Psychiatric/Mood	Obstructive sleep apnea-TZ
327.24	Sleep disorders	1	19	Psychiatric/Mood	New Dx -- NO (Also see codes 307.41 and 307.42)
331	Alzheimers	47	47	Neurological	Current Dx I1Q Takes 4 or 5 digits -- 0,11,19,2,3,4,7,81,82,83,or 9 - TZ
331.11	Other cerebral degeneration	1		Neurological	
331.19	Other cerebral degeneration	1		Neurological	
331.4	Other cerebral degeneration	19		Neurological	
331.7	Other cerebral degeneration	1		Neurological	
331.82	Other cerebral degeneration	10		Neurological	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
331.89	Other cerebral degeneration	1		Neurological	
331.9	Other cerebral degeneration	12	45	Neurological	See 349.89
332	Parkinson's	37		Neurological	takes 4 digits, should be 0 or 1-TZ
332.1	Parkinson's	4	41	Neurological	Current Dx 11Y. Takes 4th digit-TZ
333	Abnormal movement disorder	5		Neurological	takes 4 or 5 digits -- 0 - 6,71,72,79,81,82,83,84,85,89 - 94, or 99-TZ
333.1	Abnormal movement disorder	14		Neurological	
333.4	Huntington's chorea	12	12	Neurological	New Dx
333.82	Abnormal movement disorder	11		Neurological	
333.9	Abnormal movement disorder	2		Neurological	takes 5 digits, should be 90,91,92,93,94, or 99-TZ
333.94	Abnormal movement disorder	2		Neurological	
333.99	Abnormal movement disorder	24		Neurological	New Dx
334	Spinocerebral disease	2		Neurological	takes 4 digits, should be 0,1,2,3,4,8, or 9-TZ
334.2	Spinocerebral disease	2		Neurological	
334.3	Spinocerebral disease	4		Neurological	
334.4	Spinocerebral disease	1	9	Neurological	New Dx??
334.9	Disease central nervous system	3		Neurological	
335.2	Disease central nervous system	4		Neurological	See 349.89. Takes 5 digits, should be, 0,1,2,3,4, or 9-TZ
336.8	Other diseases of spinal cord	1	1	Neurological	
336.9	Unspec disease spinal cord	5	5	Neurological	
337	Disorder autonomic nervous system	1		Neurological	takes 4 or 5 digits, should be 0,1,20,21,22,29,3, or 9-TZ
337.1	Neuropathies	5		Neurological	See 357.5
337.3	Disorder autonomic nervous system	1		Neurological	
337.9	Disorder autonomic nervous system	1	2	Neurological	
338.11	Pain	1		Pain	
338.19	Pain	1		Pain	
338.29	Pain	8		Pain	
338.4	Pain	2	12	Pain	
340	Multiple Sclerosis	7	7	Neurological	Current Dx 11W
342.02	Hemiplegia/Hemiparesis	1		Neurological	
342.8	Hemiplegia/Hemiparesis	1		Neurological	takes 5 digits, should be 0,1, or 2-TZ
342.81	Hemiplegia/Hemiparesis	1		Neurological	
342.9	Hemiplegia/Hemiparesis	6		Neurological	takes 5 digits, should be 0,1, or 2-TZ
342.91	Hemiplegia/Hemiparesis	1	10	Neurological	Current Dx 11V
343.9	Cerebral Palsy	3	3	Neurological	Current Dx 11S
344	Quadreplegia/quadraparesis	2		Neurological	takes 4 or 5 digits -- 00 - 04,09,1,2,30,31,32,40,41,42,5,60,61,81,89, or 9-TZ
344.01	Quadreplegia/quadraparesis	1		Neurological	
344.046	Quadreplegia/quadraparesis	1		Neurological	only takes 5 digits-TZ
344.09	Quadreplegia/quadraparesis	1	5	Neurological	Current Dx 11Z
344.1	Paraplegia	4	4	Neurological	Current Dx 11X
344.2	Disease central nervous system	1		Neurological	
344.3	Disease central nervous system	1		Neurological	takes 5 digits, should be 0,1, or 2-TZ
344.6	Disease central nervous system	1		Neurological	takes 5 digits, should be 0 or 1-TZ
344.61	Disease central nervous system	9		Neurological	
344.89	Disease central nervous system	3		Neurological	
344.9	Paralysis, unspec	4	4	Neurological	
345.1	Epilepsy	2		Neurological	takes 5 digits, should be 0 or 1-TZ
345.9	Epilepsy	2	4	Neurological	takes 5 digits, should be 0 or 1-TZ
346	Migraine	1		Neurological	takes 5 digits, should be 0 or 1-TZ
346.9	Migraine	4		Neurological	takes 5 digits, should be 0 or 1-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
346.91	Migraine	1	6	Neurological	New Dx??
347	Disease central nervous system	1		Neurological	takes 5 digits, should be 00,01,10, or 11-TZ
347.01	Disease central nervous system	1		Neurological	
348	Disease central nervous system	1		Neurological	takes 4 or 5 digits, should be 0,1,2,30,31,39,4,5,8, or 9-TZ
348.01	Disease central nervous system	1		Neurological	only takes 4 digits-TZ
348.1	Disease central nervous system	26		Neurological	
348.2	Disease central nervous system	2		Neurological	
348.3	Disease central nervous system	23		Neurological	
348.31	Disease central nervous system	5		Neurological	
348.39	Disease central nervous system	3		Neurological	
348.9	Disease central nervous system	3		Neurological	New Dx -- NO
349.82	Disease central nervous system	1		Neurological	
349.89	Disease central nervous system	1		Neurological	*Added codes 290.8 - 290.9 to total freq.
349.9	Disease central nervous system	1		Neurological	
350.1	Disorder peripheral nervous system	7	7	Neurological	
350.6	Not valid	1			
350.9	Disorder peripheral nervous system	1		Neurological	
351	Disorder peripheral nervous system	9		Neurological	takes 4 digits, should be 0,1 or 8-TZ
352.3	Disorder peripheral nervous system	1		Neurological	
353.4	Disorder peripheral nervous system	1		Neurological	
353.6	Disorder peripheral nervous system	2		Neurological	
354	Disorder peripheral nervous system	6		Neurological	takes 4 digits, should be 0,1,2,3,4,5,8, or 9-TZ
355.2	Disorder peripheral nervous system	1		Neurological	New Dx -- NO
355.3	Disorder peripheral nervous system	1		Neurological	
355.8	Disorder peripheral nervous system	5		Neurological	
355.9	Disorder peripheral nervous system	20		Neurological	*Added codes 290.8 - 290.9 to total freq.
356	Neuropathies	3		Neurological	takes 4 digits, should be 0,1,2,3,4, or 8-TZ
356.09	Neuropathies	1		Neurological	only takes 4 digits-TZ
356.1	Neuropathies	1		Neurological	
356.8	Neuropathies	7		Neurological	
356.9	Neuropathies	71		Neurological	
356.972	Neuropathies	1			only takes 4 digits-TZ
357	Neuropathies	1		Neurological	takes 4 or 5 digits, should be 0,1,2,3,4,5,6,7,81,82, or 9-TZ
357.2	Neuropathies	9		Neurological	
357.5	Neuropathies	2		Neurological	*Added code 337.1 to total frequency.
357.81	Neuropathies	2	90	Neurological	New Dx. Also see code 337.1 and 356.9 etc.
358	Myopathies	9		Neurological	takes 4 or 5 digits, should be 00,01,1,2,8, or 9-TZ
359	Myopathies	1		Neurological	takes 4 or 5 digits, should be 0,1,2,3,4,5,6,81,89, or 9-TZ
359.1	Myopathies	5	15	Neurological	See 355.9. New Dx??
361.4	Not valid	1		Sensory	
362.01	Diabetic retinopathy	5	5	Sensory	Current Dx I1KK (part of Diabetes I1A)
362.16	Disorder eye & adnexa	1		Sensory	
362.5	Macular degeneration	5	5	Sensory	Current Dx I1MM takes 5 digits -- 50 - 57 -TZ
362.6	Disorder eye & adnexa	1		Sensory	takes 5 digits, should be 60,61,62,63,64,65, or 66-TZ
362.83	Disorder eye & adnexa	1		Sensory	
363.2	Disorder eye & adnexa	3		Sensory	takes 5 digits, should be 20,21, or 22-TZ
364	Disorder eye & adnexa	1		Sensory	takes 4 or 5 dig --00 - 05,10,11,21 - 24,3,41,42,51 - 57,59 - 64,70 - 77,8, 9-TZ
364.3	Disorder eye & adnexa	1	9	Sensory	New Dx??
365.04	Glaucoma	1		Sensory	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
365.1	Glaucoma	2		Sensory	takes 5 digits, should be 10,11,12,13,14, or 15-TZ-
365.11	Glaucoma	2		Sensory	
365.9	Glaucoma	5	10	Sensory	Current Dx 11LL
366.2	Cataracts	1		Sensory	takes 5 digits, should be 20,21,22, or 23-TZ
366.41	Cataracts	1		Sensory	
366.9	Cataracts	4	6	Sensory	Current Dx 11JJ
367	Disorder eye & adnexa	1		Sensory	takes 4 or 5 digits, should be 0,1,20,21,22,31,32,4,51,52,53,81,89, or 9-TZ
367.1	Disorder eye & adnexa	1		Sensory	
368.01	Disorder eye & adnexa	1		Sensory	
368.1	Disorder eye & adnexa	1		Sensory	takes 5 digits, should be 10,11,12,13,14,15, or 19-TZ
368.12	Disorder eye & adnexa	1		Sensory	
368.15	Disorder eye & adnexa	1		Sensory	
368.16	Disorder eye & adnexa	1		Sensory	
368.2	Disorder eye & adnexa	1		Sensory	
368.4	Disorder eye & adnexa	1		Sensory	takes 5 digits, should be 40,41,42,43,44,45,46, or 47-TZ
368.46	Disorder eye & adnexa	2		Sensory	
369	Blindness	14		Sensory	takes 4 or 5 digits, should be 00, - 08,10 - 18,20 - 25,3,4,60 - 76,8, or 9-TZ
369.03	Blindness	1		Sensory	
369.04	Blindness	1		Sensory	
369.1	Blindness	1		Sensory	takes 5 digits, should be 10,11,12,13,14,15,16,17, or 18-TZ
369.2	Blindness	1		Sensory	takes 5 digits, should be 20,21,22,23,24, or 25-TZ
369.21	Blindness	3		Sensory	
369.23	Blindness	1		Sensory	
369.4	Blindness	33		Sensory	
369.41	Blindness	1		Sensory	only takes 4 digits-TZ
369.6	Blindness	8		Sensory	takes 5 digits, should be 60,61,62,63,64,65,66,67,68, or 69-TZ
369.61	Blindness	1		Sensory	
369.64	Blindness	1		Sensory	
369.67	Blindness	1		Sensory	
369.71	Blindness	1		Sensory	
369.74	Blindness	1		Sensory	
369.8	Blindness	1		Sensory	
369.9	Blindness	5	75	Sensory	New Dx -- NO (pick up with function)
370	Disorder eye & adnexa	1		Sensory	takes 4 or 5 digits --00 - 07,20 - 24,31 - 35,40,49 - 52,54,55,59 - 64,8, or 9-TZ
370.9	Disorder eye & adnexa	1		Sensory	
371.42	Disorder eye & adnexa	1		Sensory	
371.89	Disorder eye & adnexa	1		Sensory	
372.14	Conjunctivitis	1		I 2. Infections	
372.2	Conjunctivitis	1		I 2. Infections	takes 5 digits, should be 20,21, or 22-TZ
372.3	Conjunctivitis	1		I 2. Infections	takes 5 digits, should be 30,31,33, or 39-TZ
372.39	Conjunctivitis	1	4	I 2. Infections	Current Infection I2C
373	Disorder eye & adnexa	11		Sensory	takes 4 or 5 digits, should be 00,01,02,11,12,13,2,31,32,33,34,4,5,6,8, or 9-TZ
374.03	Disorder eye & adnexa	1		Sensory	
374.1	Disorder eye & adnexa	3		Sensory	takes 5 digits, should be 10,11,12,13, or 14-TZ
374.3	Disorder eye & adnexa	2		Sensory	takes 5 digits, should be 30,31,32,33, or 34-TZ
375.15	Disorder eye & adnexa	24		Sensory	
376.32	Disorder eye & adnexa	1		Sensory	
377.1	Disorder eye & adnexa	2		Sensory	takes 5 digits, should be 10,11,12,13,14,15, or 16-TZ
377.3	Disorder eye & adnexa	2		Sensory	takes 5 digits, should be 30,31,32,33,34, or 39-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
377.75	Disorder eye & adnexa	1		Sensory	
378.52	Disorder eye & adnexa	1		Sensory	
378.73	Disorder eye & adnexa	1		Sensory	
378.9	Disorder eye & adnexa	2		Sensory	
379.23	Disorder eye & adnexa	1		Sensory	
379.31	Disorder eye & adnexa	1		Sensory	
379.43	Disorder eye & adnexa	1		Sensory	
379.9	Disorder eye & adnexa	3		Sensory	takes 5 digits, should be 90,91,92,93, or 99-TZ
380.52	Disease ear & mastoid process	1		Sensory	
380.79	Not valid	1			
382.2	Disorder ear & mastoid process	1		Sensory	
382.9	Disorder ear & mastoid process	4		Sensory	
383.9	Disorder ear & mastoid process	1		Sensory	
384.2	Disorder ear & mastoid process	1		Sensory	takes 5 digits, should be 20,21,22,23,24, or 25-TZ
384.9	Disorder ear & mastoid process	1		Sensory	
385.9	Disorder ear & mastoid process	1		Sensory	
386	Disorder ear & mastoid process	5		Sensory	takes 4 or 5 digits --00 - 04,10 - 12,19,2,30 - 35,40 - 43,48,50 - 56,58,8, 9-TZ
386.11	Disorder ear & mastoid process	2		Sensory	
386.2	Disorder ear & mastoid process	2		Sensory	
386.3	Disorder ear & mastoid process	1		Sensory	takes 5 digits, should be 30,31,32,33,34, or 35-TZ
387.2	Disorder ear & mastoid process	1		Sensory	
388.01	Disorder ear & mastoid process	1		Sensory	
388.02	Disorder ear & mastoid process	1		Sensory	
388.7	Disorder ear & mastoid process	1	24	Sensory	New Dx?? Takes 5 digits, should be, 70,71, or 72-TZ
389	Hearing loss	6		Sensory	takes 4 or 5 digits, should be 00 - 04,08,10,11,12,14 - 16, 18,2,7,8, or 9-TZ
389.1	Hearing loss	2		Sensory	takes 5 digits, should be 10,11,12,14,15,16, or 18-TZ
389.12	Hearing loss	1		Sensory	
389.14	Hearing loss	3		Sensory	
389.15	Hearing loss	1		Sensory	
389.7	Hearing loss	2		Sensory	
389.8	Hearing loss	6		Sensory	
389.9	Hearing loss	34	55	Sensory	New Dx -- NO (pick up with function)
393.9	Circulatory system disorders	1		Heart/Circulation	only three digits -TZ
394	Circulatory system disorders	1		Heart/Circulation	takes 4 digits, should be 0,1,2, or 9-TZ
395.2	Circulatory system disorders	1		Heart/Circulation	
395.9	Circulatory system disorders	1		Heart/Circulation	
396	Circulatory system disorders	2		Heart/Circulation	takes 4 digits, should be 0,1,2,3,8, or 9-TZ
396.2	Circulatory system disorders	1		Heart/Circulation	
396.3	Circulatory system disorders	1		Heart/Circulation	
397	Circulatory system disorders	4		Heart/Circulation	takes 4 digits, should be 0,1, or 9-TZ
398.9	Circulatory system disorders	1		Heart/Circulation	takes 5 digits, should be 90,91, or 99-TZ
399	Not valid	1			
401	Hypertension	3		Heart/Circulation	takes 4 digits, should be 0,1, or 9 -TZ
401.1	Hypertension	12		Heart/Circulation	
401.7	Not valid	1			
401.9	Hypertension	96		Heart/Circulation	See 405.91
401.99	Hypertension	1		Heart/Circulation	only 4 digits -TZ
402.11	Hypertension	1		Heart/Circulation	
402.8	Not valid	1			Double check please. Checked again-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
402.9	Hypertension	3			takes 5 digits, should be 90,or 91-TZ
403.9	Hypertension	1		Heart/Circulation	takes 5 digits, should be 00,01,10,11,90,or 91-TZ
403.91	Hypertension	7		Heart/Circulation	
405.91	Hypertension	1		Heart/Circulation	
405.99	Hypertension	14	139	Heart/Circulation	Current Dx I1H
409.9	Not valid	1			
410	Circulatory system disorders	1		Heart/Circulation	takes 5 digits -- 00 - 02,10 - 12,20 - 22,30 - 32,40 - 42,50 - 52,60 - 62
410.01	Circulatory system disorders	1		Heart/Circulation	,70,71,72,80,81,82,90 - 92-TZ
410.8	Circulatory system disorders	1		Heart/Circulation	takes 5th digit, should be 0,1, or 2-TZ
410.9	Circulatory system disorders	27		Heart/Circulation	takes 5th digit, should be 0,1, or 2-TZ
410.91	Circulatory system disorders	3		Heart/Circulation	
410.915	Not valid	1			only takes 5 digits-TZ
410.92	Circulatory system disorders	4		Heart/Circulation	
411	Circulatory system disorders	2		Heart/Circulation	takes 4 or 5 digits,should be 0,1,81, or 89-TZ
411.1	Circulatory system disorders	4		Heart/Circulation	
411.8	Circulatory system disorders	1		Heart/Circulation	takes 5 digits, should be 81, or 89-TZ
411.89	Circulatory system disorders	1		Heart/Circulation	
412	Circulatory system disorders	18		Heart/Circulation	
413	Circulatory system disorders	1		Heart/Circulation	takes 4 digits, should be 0,1, or 9-TZ
413.9	Circulatory system disorders	24		Heart/Circulation	See 437.9
414	ASHD	112		Heart/Circulation	takes 5 digits, should be 00,01,02,03,04,05,06,07,10,11,12,19,8, or 9-TZ
414.001	ASHD	1		Heart/Circulation	only needs 5 digits-TZ
414.01	ASHD	2		Heart/Circulation	
414.05	ASHD	3	118	Heart/Circulation	Current Dx I1D
414.8	Circulatory system disorders	8		Heart/Circulation	
414.88	Circulatory system disorders	1		Heart/Circulation	only needs 4 digits-TZ
414.9	Circulatory system disorders	28		Heart/Circulation	
415.11	Circulatory system disorders	1		Heart/Circulation	
415.19	Circulatory system disorders	12		Heart/Circulation	
416	Circulatory system disorders	1		Heart/Circulation	takes 4 digits, should be 0,1,8, or 9-TZ
416.8	Circulatory system disorders	9		Heart/Circulation	
416.9	Circulatory system disorders	4		Heart/Circulation	See 437.9
419	Not valid	1			No such code-TZ. Double check Please
421.1	Circulatory system disorders	1		Heart/Circulation	
421.9	Circulatory system disorders	1		Heart/Circulation	
422	Circulatory system disorders	1		Heart/Circulation	takes 4 or 5 digits, should be 0,90,91,92, 93 or 99-TZ
423.9	Circulatory system disorders	4		Heart/Circulation	
424	Circulatory system disorders	10		Heart/Circulation	takes 4 or 5 digits, should be 0,1,2,3,90,91, or 99-TZ
424.1	Circulatory system disorders	19		Heart/Circulation	
424.9	Circulatory system disorders	8		Heart/Circulation	takes 5 digits, should be 90,91, or 99-TZ
424.99	Circulatory system disorders	2		Heart/Circulation	
425	Circulatory system disorders	1		Heart/Circulation	takes 4 digits, should be 0,1,2,3,4,5,7,8, or 9-TZ
425.1	Circulatory system disorders	1		Heart/Circulation	
425.4	Circulatory system disorders	23		Heart/Circulation	
425.8	Circulatory system disorders	1		Heart/Circulation	
426	Circulatory system disorders	1		Heart/Circulation	takes 4 or 5 digits --0,10,11,12,13,2,3,4,50,51,52,53,54,6,7,81,82,89, or 9-TZ
426.11	Circulatory system disorders	1		Heart/Circulation	
426.3	Circulatory system disorders	4		Heart/Circulation	
426.4	Circulatory system disorders	6		Heart/Circulation	See 437.9

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
426.5	Circulatory system disorders	1		Heart/Circulation	takes 5 digits, should be 50,51,52,53, or 54-TZ
426.509	Circulatory system disorders	1		Heart/Circulation	only takes 5 digits-TZ
427	Cardiac dysrhythmia	2		Heart/Circulation	takes 4 or 5 digits, should be 0,1,2,31,32,41,42,5,60,61,69,81,89, or 9 -TZ
427.1	Cardiac dysrhythmia	3		Heart/Circulation	
427.21	Cardiac dysrhythmia	1		Heart/Circulation	only takes 4 digits-TZ
427.3	Cardiac dysrhythmia	1		Heart/Circulation	takes 5 digits, should be 31 or 32-TZ
427.31	Cardiac dysrhythmia	153		Heart/Circulation	
427.32	Cardiac dysrhythmia	2		Heart/Circulation	
427.5	Cardiac dysrhythmia	2		Heart/Circulation	
427.69	Cardiac dysrhythmia	2		Heart/Circulation	
427.81	Cardiac dysrhythmia	10		Heart/Circulation	
427.84	Not valid	1			
427.89	Cardiac dysrhythmia	4		Heart/Circulation	
427.9	Cardiac dysrhythmia	5	185	Heart/Circulation	Current Dx 11E
428	CHF	37		Heart/Circulation	takes 4 or 5 digits, should be 0,1,20,21,22,23,30,31,32,33,40,41,42,43, or 9-TZ
428.1	CHF	2		Heart/Circulation	
428.2	CHF	1		Heart/Circulation	takes 5 digits, should be 20,21,22, or 23-TZ
428.3	CHF	2		Heart/Circulation	takes 5 digits, should be 30,31,32, or 33-TZ
428.31	CHF	2		Heart/Circulation	
428.41	CHF	1		Heart/Circulation	
428.9	CHF	7	52	Heart/Circulation	Current Dx 11F
429	Circulatory system disorders	1		Heart/Circulation	takes 4 or 5 digits, 0,1,2,3,4,5,6,71,79,81,82,83,89, or 9-TZ
429.03	Circulatory system disorders	1		Heart/Circulation	only takes 4 digits-TZ
429.2	Other Cardiovascular disease	10		Heart/Circulation	
429.3	Circulatory system disorders	17		Heart/Circulation	
429.36	Circulatory system disorders	1		Heart/Circulation	only takes 4 digits-TZ
429.9	Other Cardiovascular disease	3	13	Heart/Circulation	Current Dx 11K (from Oct 1995 MDS Manual)
430	Cerebrovascular Disease	1		Neurological	chgd from 10%-TZ
431	Cerebrovascular Disease	4		Neurological	chgd from 10%-TZ
432.1	Cerebrovascular Disease	4		Neurological	chgd from 10%-TZ
432.9	Cerebrovascular Disease	7	16	Neurological	chgd from 10%-TZ. New Dx??
433	Circulatory system disorders	1		Heart/Circulation	takes 5 digits, should be 00,01,10,11,20,21,30,31,80,81,90, or 91-TZ
433.1	Circulatory system disorders	17		Heart/Circulation	takes 5 digits, should be 10 or 11-TZ
433.11	Circulatory system disorders	1		Heart/Circulation	
433.3	Circulatory system disorders	2		Heart/Circulation	takes 5 digits, should be 30, or 31-TZ
434	Stroke	5		Neurological	takes 5 digits, should be 00,01,10,11,90, or 91-TZ
434.11	Stroke	3		Neurological	chgd from 10%-TZ
434.9	Stroke	1		Neurological	chgd from 10%-TZ. Takes 5 dig --90 91-TZ
434.91	Stroke	18		Neurological	chgd from 10%-TZ
435	Transient Ischemic Attack	1		Neurological	takes 4 digits, should be 0,1,2,3,8, or 9-TZ
435.3	Transient Ischemic Attack	1		Neurological	
435.9	Transient Ischemic Attack	12	14	Neurological	Current Dx 11BB
436	Stroke	20	47	Neurological	Current Dx 11T. See also 434.11, 434.9, 434.9
437	Cerebrovascular Disease	3		Neurological	takes 4 digits, should be 0,1,2,3,4,5,6,7,8, or 9-TZ. Chgd from 10 %-TZ
437.1	Cerebrovascular Disease	3		Neurological	chgd from 10%-TZ
437.2	Cerebrovascular Disease	1		Neurological	
437.8	Cerebrovascular Disease	6		Neurological	
437.9	Cerebrovascular Disease	14	27	Neurological	chgd from 10%-TZ. New Dx?
438	Late effects cerebrovascular disease	15		Neurological	takes 4 or 5 digits -0,11,12,19,20,21,22 - 32,40,41,42,50 - 53,6,7,81 - 85,89

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
438.11	Late effects cerebrovascular disease	8		Neurological	chgd from 10%-TZ
438.12	Late effects cerebrovascular disease	5		Neurological	chgd from 10%-TZ
438.2	Late effects cerebrovascular disease	21		Neurological	chgd from 10%-TZ Takes 5 digits -- 20, 21, 22 - TZ
438.21	Late effects cerebrovascular disease	10		Neurological	
438.22	Late effects cerebrovascular disease	2		Neurological	
438.7	Late effects cerebrovascular disease	4		Neurological	
438.82	Late effects cerebrovascular disease	15		Neurological	
438.83	Late effects cerebrovascular disease	1		Neurological	
438.84	Late effects cerebrovascular disease	2		Neurological	
438.85	Late effects cerebrovascular disease	3		Neurological	
438.89	Late effects cerebrovascular disease	8		Neurological	
438.9	Late effects cerebrovascular disease	22	116	Neurological	New Dx -- NO. Chgd from 10%-TZ
440	Diseases areteries, arterioles/cap	4		Heart/Circulation	takes 4 or 5 digits, should be 0,1,20,21,22,23,24,29,30,31,32,8, or 9-TZ
440.1	Diseases areteries, arterioles/cap	5		Heart/Circulation	
440.2	Diseases areteries, arterioles/cap	1		Heart/Circulation	takes 5 digits, should be 20,21,22,23,24, or 29-TZ
440.23	Diseases areteries, arterioles/cap	1		Heart/Circulation	
440.9	Diseases areteries, arterioles/cap	12		Heart/Circulation	
441	Diseases areteries, arterioles/cap	2		Heart/Circulation	takes 5 digits, should be 00,01,02,03,1,2,3,4,5,6,7,8, or 9-TZ
441.01	Diseases areteries, arterioles/cap	1		Heart/Circulation	
441.1	Diseases areteries, arterioles/cap	1		Heart/Circulation	
441.2	Diseases areteries, arterioles/cap	1		Heart/Circulation	
441.3	Diseases areteries, arterioles/cap	1		Heart/Circulation	
441.4	Diseases areteries, arterioles/cap	10		Heart/Circulation	
441.9	Diseases areteries, arterioles/cap	1		Heart/Circulation	
442.81	Diseases areteries, arterioles/cap	2		Heart/Circulation	*Added code 447.9.
442.89	Diseases areteries, arterioles/cap	1		Heart/Circulation	
443	Diseases areteries, arterioles/cap	2		Heart/Circulation	takes 4 or 5 digits, should be 0,1,21,22,23,24,29,81,82,89, or 9-TZ
443.21	Diseases areteries, arterioles/cap	1		Heart/Circulation	
443.81	Diseases areteries, arterioles/cap	3		Heart/Circulation	
443.89	Diseases areteries, arterioles/cap	4		Heart/Circulation	
443.9	Peripheral vascular disease	16	16	Heart/Circulation	Current Dx I1J Do any other codes fit here? No.
444.1	Diseases areteries, arterioles/cap	1		Heart/Circulation	
444.2	Diseases areteries, arterioles/cap	1		Heart/Circulation	
444.22	Diseases areteries, arterioles/cap	1		Heart/Circulation	
444.81	Diseases areteries, arterioles/cap	1		Heart/Circulation	
446.4	Diseases areteries, arterioles/cap	2		Heart/Circulation	
446.5	Diseases areteries, arterioles/cap	1		Heart/Circulation	
447.2	Diseases areteries, arterioles/cap	1		Heart/Circulation	
447.6	Diseases areteries, arterioles/cap	2		Heart/Circulation	
447.8	Diseases areteries, arterioles/cap	1		Heart/Circulation	
447.9	Diseases areteries, arterioles/cap	2		Heart/Circulation	New Dx -- NO
451.1	Diseases veins/lymphs/circ sys	1		Heart/Circulation	takes 5 digits, should be 11 or 19-TZ
451.19	Diseases veins/lymphs/circ sys	1		Heart/Circulation	
451.2	Diseases veins/lymphs/circ sys	1		Heart/Circulation	
451.9	Diseases veins/lymphs/circ sys	3		Heart/Circulation	
453.4	Deep vein thrombosis	5		Heart/Circulation	takes 5 digits, should be 40,41 or 42,-TZ
453.8	Deep vein thrombosis	12		Heart/Circulation	
453.9	Deep vein thrombosis	6	23	Heart/Circulation	Current Dx I1G Do any other codes fit here? No.
454	Diseases veins/lymphs/circ sys	6		Heart/Circulation	takes 4 digits, should be 0,1,2,8, or 9-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
454.1	Diseases veins/lymphs/circ sys	1		Heart/Circulation	
454.9	Diseases veins/lymphs/circ sys	2		Heart/Circulation	
455.3	Diseases veins/lymphs/circ sys	1		Heart/Circulation	
455.4	Diseases veins/lymphs/circ sys	1		Heart/Circulation	
455.5	Diseases veins/lymphs/circ sys	1		Heart/Circulation	
455.6	Diseases veins/lymphs/circ sys	15		Heart/Circulation	
455.9	Diseases veins/lymphs/circ sys	1		Heart/Circulation	
456	Diseases veins/lymphs/circ sys	1		Heart/Circulation	takes 4 or 5 digits, should be 0,1,20,21,3,4,5,6,7or 8-TZ
456.1	Diseases veins/lymphs/circ sys	1		Heart/Circulation	
456.2	Diseases veins/lymphs/circ sys	1		Heart/Circulation	takes 5 digits, should be 20 or 21-TZ
457	Diseases veins/lymphs/circ sys	3		Heart/Circulation	takes 4 digits, should be 0,1,2,8, or 9-TZ
457.1	Diseases veins/lymphs/circ sys	16		Heart/Circulation	New Dx
457.14	Diseases veins/lymphs/circ sys	1		Heart/Circulation	only need 4 digits-TZ
457.3	Not valid	1			
458	Hypotension	8		Heart/Circulation	takes 4 or 5 digitd, should be 0,1,21,29,8, or 9-TZ
458.9	Hypotension	2	10	Heart/Circulation	Current Dx 111
459	Internal Bleeding	0	0	Problem Condition	Current Health Condition J1J,
459.2	Diseases veins/lymphs/circ sys	2		Heart/Circulation	takes 4 or 5 digits - 0,10,11,12,13,19,2,30 - 33,39,81,89,9-TZ
459.81	Diseases veins/lymphs/circ sys	26		Heart/Circulation	
459.89	Diseases veins/lymphs/circ sys	1		Heart/Circulation	chgd from 10%-TZ
459.9	Diseases veins/lymphs/circ sys	8		Heart/Circulation	New Dx. Chgd from 10%-TZ
461.21	Diseases resp system	1		Other	only takes 4 digits-TZ
461.9	Diseases resp system	1		Other	
462.2	Not valid	2			
465.9	Acute upper respiratory Infection	1	1	Other	Current Infection I2f Anything 460-466 are upper resp infect.
466	Diseases resp system	1		Other	takes 4 digits, should be 0,11or 19-TZ
471.09	Diseases resp system	1		Other	only takes 4 digits-TZ
472	Diseases resp system	8		Other	takes 4 digits, should be 0,1or2,-TZ
472.9	Not valid	2			
473.9	Diseases resp system	6		Other	
477	Diseases resp system	3		Other	takes 4 digits, should be 0,1,2,8, or 9-TZ
477.8	Diseases resp system	1		Other	
477.9	Diseases resp system	21		Other	
478.1	Diseases resp system	1		Other	
478.31	Diseases resp system	2		Other	
480.03	Diseases resp system	1		Other	only need 4 digits-TZ
482.83	Pneumonia	1		I 2. Infections	
483.7	Pneumonia	1		I 2. Infections	code with code 507 (Also 480.0 - 486 & 507.0 507.1 507.8)
485.4	Not valid	1			
486	Pneumonia	14		I 2. Infections	Code with 507 Do other codes fit here? See above.
487.1	Diseases resp system	1		Other	
488.2	Not valid	1			
490	Brochitis	8	8	Pulmonary	
491.2	COPD & allied conditions	1		Pulmonary	takes 5 digits, should be 0,1, or 2-TZ
491.21	COPD & allied conditions	9		Pulmonary	
491.9	Chronic bronchitis	4	4	Pulmonary	
492.8	Emphysema	2	2	Pulmonary	
493.06	Asthma	1		Pulmonary	invalid 5th digit, should be 0,1, or 2-TZ
493.2	Asthma	7		Pulmonary	Current Dx I11HH

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
					5 digits -0,1, or 2-TZ
493.9	Asthma	5		Pulmonary	takes 5 digits, should be 0,1, or 2-TZ
496	COPD	40	50	Pulmonary	Current Dx I11I
501	Diseases resp system	3		Pulmonary	
504	Diseases resp system	1		Pulmonary	
507	Pneumonia due to external agent	11	30	I 2. Infections	Current Infection I2E (code with 136.3, 482.83, 483.7 and 507).
510	Other Diseases resp system	1		Pulmonary	takes 4 digits, should be 0 or 9-TZ. Takes 4 dig --0,1,8 TZ
510.9	Other Diseases resp system	1		Pulmonary	
511	Other Diseases resp system	1		Pulmonary	takes 4 digits, 0,1,8, or 9-TZ
511.9	Other Diseases resp system	11		Pulmonary	
512.8	Other Diseases resp system	1		Pulmonary	
513.1	Other Diseases resp system	1		Pulmonary	
513.82	Other Diseases resp system	1		Pulmonary	only takes 4 digits, should be 0 or 1-TZ
514	Other Diseases resp system	3		Pulmonary	
514.2	Other Diseases resp system	1		Pulmonary	only takes 3 digits-TZ
515	Pulmonary fibrosis	16	16	Pulmonary	New Dx
516.3	Other diseases resp system	2		Pulmonary	
518	Other diseases lung	1		Pulmonary	takes 4 or 5 digits, should be 0,1,2,3,4,5,6,7, 81,82,83,84, or 89 -TZ
518.01	Other diseases lung	1		Pulmonary	takes 4 or 5 digits, should be 0,1,2,3,4,5,6,7,81,82,83,84, or 89-TZ
518.4	Respiratory failure	2		Pulmonary	
518.81	Respiratory failure	91		Pulmonary	
518.82	Other diseases resp system	2		Pulmonary	
518.84	Respiratory failure	2		Pulmonary	
518.89	Respiratory failure	15	110	Pulmonary	New Dx
519.1	Other diseases resp system	2		Pulmonary	takes 5 digits, should be 1 or 9-TZ
519.8	Respiratory Infection	1		I 2. Infections	Current Infection I2F
519.9	Other diseases resp system	1		Pulmonary	
520	Diseases oral cav/sal gland/jaws	1		Other	takes 4 digits, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
521.09	Diseases oral cav/sal gland/jaws	1		Other	
523.9	Diseases oral cav/sal gland/jaws	2		Other	
524.62	Diseases oral cav/sal gland/jaws	1		Other	
526.1	Diseases oral cav/sal gland/jaws	1		Other	
527.2	Diseases oral cav/sal gland/jaws	2		Other	
528.9	Diseases oral cav/sal gland/jaws	1	9	Other	New Dx - I don't think so-these are all dental disorders
530	Diseases esophagus	1		Digestive	takes 4 or 5 digits, should be 0,10,11,12,19,20,21,3,4,5,6,7,81 - ,87, 89, 9-TZ
530.01	Diseases oesophagus	1		Digestive	only takes 4 digits-TZ
530.1	Esophagitis	19		Digestive	takes 5 digits, should be 10,11,12, or 19-TZ. Chgd from 10%-TZ
530.11	Esophagitis	26		Digestive	
530.12	Esophagitis	2		Digestive	
530.19	Esophagitis	1	48	Digestive	New Dx??
530.2	Diseases esophagus	4		Digestive	
530.3	Diseases esophagus	10		Digestive	chgd from 10%-TZ
530.5	Diseases esophagus	2		Digestive	
530.8	Gastroesophageal reflux disease (GERD)	3		Digestive	takes 4 or 5 digits, should be 81,82,83,84,85,86,87, or 89, or 9-TZ
530.81	Gastroesophageal reflux disease (GERD)	491		Digestive	
530.817	Gastroesophageal reflux disease (GERD)	2	496	Digestive	New Dx. Chgd from 10%-TZ. Only need 5 digits-TZ
530.85	Diseases esophagus	5		Digestive	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
530.89	Diseases esophagus	4		Digestive	
530.91	Diseases esophagus	1		Digestive	takes only 4 digits-TZ
531	Ulcers	1		Digestive	takes 5 digits --00,01,10,11,20,21,30,31,40,41,50,51,60,61,70,71,90,91-TZ
531.1	Ulcers	1		Digestive	takes 5 digits, should be 10,11,20,21,30,31,40,41,50,51,60,61,70,71,90,91-TZ
531.3	Ulcers	1		Digestive	takes 5 digits, should be 30 or 31-TZ
531.4	Ulcers	1		Digestive	takes 5 digits, should be 40 or 41-TZ
531.81	Not valid	1			
531.9	Ulcers	4		Digestive	takes 5 digits, should be 90 or 91-TZ
532	Ulcers	1		Digestive	takes 5 digits -- 00,01,10,11,20,21,30,31,40,41,50,51,60,61,70,71,90, or 91-TZ
532.9	Ulcers	6		Digestive	takes 5 digits, should be 90 or 91-TZ
533	Ulcers	3		Digestive	takes 5 digits --00,01,10,11,20,21,30,31,40,41,50,51,60,61,70,71,90, or 91-TZ
533.1	Ulcers	1		Digestive	takes 5 digits, should be 10 or 11-TZ
533.3	Ulcers	2		Digestive	takes 5 digits, should be 30 or 31-TZ
533.7	Ulcers	2		Digestive	takes 5 digits, should be 70 or 71-TZ
533.9	Ulcers	41	45	Digestive	New Dx. Takes 5 digits 00,01,10,11,20,21,30,31,40,41,50,51,60, or 61-TZ
535	Acute Gastritis	5		Digestive	Was this in with gastritis?-Yes
535.01	Gastritis	3		Digestive	
535.1	Gastritis	6		Digestive	takes 5 digits, should be 10 or 11-TZ
535.3	Gastritis	1		Digestive	takes 5 digits, should be 30 or 31-TZ
535.4	Gastritis	8		Digestive	takes 5 digits, should be 40 or 41-TZ
535.41	Gastritis	3		Digestive	
535.5	Gastritis	46		Digestive	takes 5 digits, should be 50 or 51-TZ
535.51	Gastritis	2	74	Digestive	New Dx
535.6	Stomach disorders	1		Digestive	takes 5 digits, should be or 61-TZ
536.3	Stomach disorders	12		Digestive	
536.4	Stomach disorders	1		Digestive	takes 5 digits, should be 40,41,42, or 49-TZ
536.8	Stomach disorders	38		Digestive	
536.81	Stomach disorders	1		Digestive	takes only 4 digits-TZ
536.9	Stomach disorders	10		Digestive	New Dx -descriptor needs to be narrowed down
537.1	Other disorders stom/duod	1		Digestive	
537.89	Other disorders stom/duod	1		Digestive	
537.9	Other disorders stom/duod	4		Digestive	
540	Appendicitis	1	1	Digestive	takes 4 digits,should be 0,1, or 9-TZ
543.9	Other diseases appendix	2		Digestive	
550.9	Hernias	5		Digestive	takes 5 digits, should be 90,91,92, or 93-TZ
550.91	Hernias	1		Digestive	
552.29	Hernias	1		Digestive	
552.8	Hernias	1		Digestive	
553	Hernias	1		Digestive	takes 4 or 5 digits, should be 00,01,02,03,1,20,21,29,3,8, or 9-TZ
553.1	Hernias	3		Digestive	
553.2	Hernias	2		Digestive	takes 5 digits, should be 20,21, or 29-TZ
553.3	Hernias	47		Digestive	
553.8	Hernias	3		Digestive	
553.9	Hernias	5	69	Digestive	New Dx -- NO
555.9	Noninfec enteritis/colitis	9		Digestive	
556.9	Noninfec enteritis/colitis	4		Digestive	
557	Intestinal disorders	2		Digestive	takes 4 digits, should be 0,1, or 9-TZ
557.1	Intestinal disorders	2		Digestive	
557.9	Intestinal disorders	1		Digestive	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
558.3	Noninfec enteritis/colitis	1	14	Digestive	New Dx -- NO
558.9	Intestinal disorders	19		Digestive	
559	Not valid	1			
560.1	Other diseases intestines/peritoneum	2		Digestive	
560.2	Other diseases intestines/peritoneum	2		Digestive	
560.21	Other diseases intestines/peritoneum	1		Digestive	only takes 4 digits-TZ
560.81	Other diseases intestines/peritoneum	2		Digestive	
560.9	Other diseases intestines/peritoneum	12		Digestive	
562	Other diseases intestines/peritoneum	5		Digestive	takes 5 digits, should be 00,01,02,03,10,11,12, or 13-TZ
562.1	Other diseases intestines/peritoneum	37		Digestive	takes 5 digits, should be 10,11,12, or 13-TZ
562.11	Other diseases intestines/peritoneum	32		Digestive	
562.12	Other diseases intestines/peritoneum	2		Digestive	
564	Functional digestive disorders	245		Digestive	takes 4 or 5 digits, 00,01,02,09,1 -7,81,89, or 9-TZ. Constipation?- Yes
564.09	Constipation	20		Digestive	(types of functional disorders)
564.1	Irritable bowel syndrome(IBS)	18	283	Digestive	New Dx. Chgd from 10%-TZ
564.6	Other diseases intestines/peritoneum	1		Digestive	
564.7	Other diseases intestines/peritoneum	3		Digestive	
564.81	Other diseases intestines/peritoneum	4		Digestive	
564.89	Other diseases intestines/peritoneum	1		Digestive	
564.9	Other diseases intestines/peritoneum	2		Digestive	
565.1	Other diseases intestines/peritoneum	2		Digestive	
567.22	Other diseases intestines/peritoneum	1		Digestive	
567.38	Other diseases intestines/peritoneum	1		Digestive	
567.9	Other diseases intestines/peritoneum	2		Digestive	
568	Other diseases intestines/peritoneum	2		Digestive	takes 4 or 5 digits, should be 0,81,82,89, or 9-TZ
568.89	Other diseases intestines/peritoneum	1		Digestive	
569.1	Other diseases intestines/peritoneum	2		Digestive	
569.2	Other diseases intestines/peritoneum	2		Digestive	
569.3	Other diseases intestines/peritoneum	3		Digestive	
569.4	Other diseases intestines/peritoneum	1		Digestive	takes 5 digits, should be 41,42, or 49-TZ
569.42	Other diseases intestines/peritoneum	1		Digestive	
569.69	Other diseases intestines/peritoneum	1		Digestive	New Dx -- NO
569.81	Other diseases intestines/peritoneum	2		Digestive	
569.83	Other diseases intestines/peritoneum	2		Digestive	
569.9	Other diseases intestines/peritoneum	2		Digestive	
571.1	Other diseases digestive system	2		Digestive	
571.2	Other diseases digestive system	6		Digestive	
571.4	Other diseases digestive system	1		Digestive	takes 5 digits, should be 40,41, or 49-TZ
571.5	Other diseases digestive system	8		Digestive	
571.8	Other diseases digestive system	1		Digestive	
571.9	Other diseases digestive system	1		Digestive	
572.2	Other diseases digestive system	1		Digestive	
572.3	Other diseases digestive system	1		Digestive	
573.3	Other diseases digestive system	2		Digestive	
573.8	Other diseases digestive system	1		Digestive	
573.9	Other diseases digestive system	6		Digestive	
574	Other diseases digestive system	1		Digestive	takes 5 dig -- 00,01,10,11,20,21,30,31,40,41,50,51,60,61,70,71,80,81,90,91TZ
574.1	Other diseases digestive system	2		Digestive	takes 5 digits, should be 10 or 11-TZ
574.2	Other diseases digestive system	14		Digestive	takes 5 digits, should be 20 or 21-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
574.5	Other diseases digestive system	2		Digestive	takes 5 digits, should be 50 or 51-TZ
575	Other diseases digestive system	1		Digestive	takes 4 or 5 digits, should be 0,10,11,12,2,3,4,5,6,8, or 9-TZ
575.1	Other diseases digestive system	5		Digestive	takes 5 digits, should be 0 or 1-TZ
576.8	Other diseases digestive system	2		Digestive	
576.81	Other diseases digestive system	1		Digestive	takes only 4 digits-TZ
577	Pancreatitis	12		Digestive	takes 4 digits, should be 0,1,2,8, or 9-TZ
577.1	Pancreatitis	5	17	Digestive	New Dx -- NO (this is an infection - digestive)
577.2	Other diseases digestive system	1		Digestive	
577.8	Other diseases digestive system	3		Digestive	
578.1	GI hemorrhage	1		Digestive	
578.81	Not valid	7		Digestive	
578.89	Not valid	1		Digestive	
578.9	GI hemorrhage	45		Digestive	
578.92	GI hemorrhage	1	55	Digestive	New Dx -- NO only takes 4 digits-TZ
579.3	Other diseases digestive system	3		Digestive	
579.8	Other diseases digestive system	1		Digestive	
579.9	Other diseases digestive system	1		Digestive	
580.51	Not valid	1			
580.81	Nephritis, nephrotic syndrome & nephrosis	2		Genitourinary	code first underlying disease-TZ
581.18	Nephritis, nephrotic syndrome & nephrosis	1		Genitourinary	takes only 4 digits-TZ
582.9	Nephritis, nephrotic syndrome & nephrosis	5		Genitourinary	
583.81	Nephritis, nephrotic syndrome & nephrosis	3		Genitourinary	code first underlying disease-TZ
583.9	Nephritis, nephrotic syndrome & nephrosis	1		Genitourinary	
584.8	Renal failure	1		Other	
584.9	Renal failure	10		Other	Added code 586.
585	Renal failure	7		Other	
585.1	Renal failure	2		Other	
585.2	Renal failure	1		Other	
585.3	Renal failure	2		Other	
585.4	Renal failure	2		Other	
585.5	Renal failure	2		Other	
585.6	Renal failure	16		Other	
585.9	Renal failure	48		Other	See code 593.2
586	Renal failure	17	108	Other	Current Dx I1QQ. See code 585.
588.8	Nephritis, nephrotic syndrome & nephrosis	1		Genitourinary	takes 5 digits, should be 8 or 89-TZ
588.89	Nephritis, nephrotic syndrome & nephrosis	1		Genitourinary	
588.9	Nephritis, nephrotic syndrome & nephrosis	8	20	Genitourinary	New Dx??
590	Other diseases urinary system	1		Genitourinary	takes 4 or 5 digits, should be 00,01,10,11,2,3,80,81 or 9-TZ
590.8	Other diseases urinary system	3		Genitourinary	takes 5 digits, should be 80 or 81-TZ
591	Hydronephrosis	6	6	Genitourinary	
592	Calculus ureter	9	9	Genitourinary	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
593.09	Other diseases urinary system	1		Genitourinary	takes only 4 digits-TZ
593.2	Diseases genitourinary system	2		Genitourinary	New Dx -- NO
593.9	Renal insufficiency	83	83	Genitourinary	New Dx -- NO
594.1	Other diseases urinary system	1		Genitourinary	
595.1	Other diseases urinary system	2		Genitourinary	
595.2	Other diseases urinary system	2		Genitourinary	
595.9	Other diseases urinary system	4		Genitourinary	
596	Bladder disorders	4		Genitourinary	takes 4 or 5 digits, should be 0,1,2,3,4,51,52,53,54,55,59,6,7,8, or 9-TZ
596.4	Bladder disorders	3		Genitourinary	
596.5	Bladder disorders	1		Genitourinary	takes 5 digits, should be 51,52,53,54,55, or 59-TZ
596.51	Bladder disorders	16		Genitourinary	
596.54	Neurogenic bladder	41	41	Genitourinary	New Dx
596.59	Bladder disorders	3		Genitourinary	
596.8	Bladder disorders	11		Genitourinary	
596.9	Bladder disorders	2		Genitourinary	
597.9	Not valid	1		Genitourinary	
598	Diseases genitourinary system	1		Genitourinary	See 593.2 Why this code?TZ Takes 4 or 5 digits, should be 00,01,1,2,8, or 9
598.09	Not valid	1			
598.9	Other diseases urinary system	7		Genitourinary	
599	Urinary tract infection	28	28	I 2. Infections	Current Infection I2J Takes 4 or 5 dig -- 0 - 5 60 69 7 81 - 83 89 or 9
599.6	Other diseases urinary system	4		Genitourinary	See code 593.2- takes 5 digits, should be 60 or 69-TZ
599.7	Other diseases urinary system	1		Genitourinary	
599.9	Not valid	1			
600	Benign prostate	103		Genitourinary	takes 4 or 5 digits, should be 00,01,10,11,20,21,3,90 or 91-TZ
600.01	Benign prostate	10	113	Genitourinary	New Dx
600.2	Prostate disorders	7		Genitourinary	takes 5 digits, should be 20 or 21-TZ
600.66	Not valid	1		Genitourinary	
600.9	Prostate disorders	12		Genitourinary	takes 5 digits, should be 90 or 91-TZ
600.91	Prostate disorders	4		Genitourinary	
601	Prostate disorders	1		Genitourinary	takes 4 digits, should be 0,1,2,3,4,8, or 9-TZ
601.9	Prostate disorders	1		Genitourinary	
602.8	Prostate disorders	1		Genitourinary	
602.9	Prostate disorders	2	28	Genitourinary	New Dx -- NO
603.9	Diseases male genital organs	2		Genitourinary	
604.9	Diseases male genital organs	2		Genitourinary	takes 5 digits, should be 90,91, or 99-TZ
608.4	Diseases male genital organs	1	5	Genitourinary	New Dx??
611.72	Disorders breast	4	4	Other	New Dx -- NO
616.1	Inflammatory disease female pelvic organs	1		Other	takes 5 digits, should be 10 or 11-TZ
618	Inflammatory disease female pelvic organs	2		Other	takes 4 or 5 digits -- 00 - 05,09,1 - 7,81,82 - 84,89 or 9-TZ
618.02	Inflammatory disease female pelvic organs	1		Other	
618.1	Inflammatory disease female pelvic organs	3		Other	
618.3	Inflammatory disease female pelvic organs	1		Other	
618.4	Inflammatory disease female pelvic organs	1		Other	
618.9	Inflammatory disease female pelvic	1		Other	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
	organs				
619.1	Inflammatory disease female pelvic organs	1		Other	
620.2	Inflammatory disease female pelvic organs	2		Other	
623.8	Inflammatory disease female pelvic organs	1		Other	
625.3	Inflammatory disease female pelvic organs	1		Other	
625.6	Inflammatory disease female pelvic organs	6		Other	
626.6	Inflammatory disease female pelvic organs	1		Other	
627.2	Inflammatory disease female pelvic organs	2		Other	
627.3	Inflammatory disease female pelvic organs	3		Other	
627.9	Inflammatory disease female pelvic organs	1	35	Other	New Dx -- NO
633.9	Compl preg/childbirth/puerperium	1		Other	takes 5 digits, should be 90 or 91-TZ
645.1	Compl preg/childbirth/puerperium	1	2	Other	takes 5 digits, should be 10,11, or 13-TZ
680.6	Skin & subcu tissue disorders	1		Skin Conditions	
680.9	Skin & subcu tissue disorders	1		Skin Conditions	
681.1	Cellulitis	3		Skin Conditions	takes 5 digits, should be 10 or 11-TZ
681.11	Cellulitis	1		Skin Conditions	
682	Cellulitis	2		Skin Conditions	takes 4 digits, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
682.2	Cellulitis	2		Skin Conditions	
682.3	Cellulitis	1		Skin Conditions	
682.4	Cellulitis	1		Skin Conditions	
682.5	Cellulitis	2		Skin Conditions	
682.6	Cellulitis	34		Skin Conditions	
682.7	Cellulitis	3		Skin Conditions	
682.8	Cellulitis	1		Skin Conditions	
682.9	Cellulitis	12		Skin Conditions	
<b>CELLULI</b>	681-682.9	1	63	Skin conditions	New Dx Did I leave any out for cellulitis?- No
686.01	Skin & subcu tissue disorders	1		Skin Conditions	
686.9	Skin & subcu tissue disorders	2		Skin Conditions	
690.1	Skin & subcu tissue disorders	11		Skin Conditions	
690.107	Skin & subcu tissue disorders	1		Skin Conditions	only takes 5 digits-TZ
690.18	Skin & subcu tissue disorders	2		Skin Conditions	
691.8	Skin & subcu tissue disorders	2		Skin Conditions	
692.9	Skin & subcu tissue disorders	20		Skin Conditions	
693	Skin & subcu tissue disorders	1		Skin Conditions	takes 4 digits, should be 0,1,8, or 9-TZ
693.1	Skin & subcu tissue disorders	1		Skin Conditions	
694.5	Skin & subcu tissue disorders	6		Skin Conditions	
695.3	Skin & subcu tissue disorders	4		Skin Conditions	
695.4	Skin & subcu tissue disorders	1		Skin Conditions	
695.89	Skin & subcu tissue disorders	1		Skin Conditions	
696	Skin & subcu tissue disorders	2		Skin Conditions	takes 4 digits, should be 0,1,2,3,4,5, or 8-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
696.1	Skin & subcu tissue disorders	15		Skin Conditions	
696.8	Skin & subcu tissue disorders	1		Skin Conditions	
698.2	Skin & subcu tissue disorders	1		Skin Conditions	
698.4	Skin & subcu tissue disorders	1		Skin Conditions	
698.9	Skin & subcu tissue disorders	2		Skin Conditions	
700	Skin & subcu tissue disorders	3		Skin Conditions	
700.52	Skin & subcu tissue disorders	1		Skin Conditions	takes only 3 digits-TZ
701.1	Skin & subcu tissue disorders	5		Skin Conditions	
702	Skin & subcu tissue disorders	3		Skin Conditions	takes 4 or 5 digits, should be 0,11,19, or 8-TZ
702.19	Skin & subcu tissue disorders	1		Skin Conditions	
703	Skin & subcu tissue disorders	1		Skin Conditions	takes 4 digits, should be 0,8 or 9-TZ
704	Skin & subcu tissue disorders	1		Skin Conditions	takes 4 or 5 digits, should be 00,01,02,09,1,2,3,8, or 9-TZ
704.8	Skin & subcu tissue disorders	2		Skin Conditions	
705.83	Skin & subcu tissue disorders	1		Skin Conditions	
706.1	Skin & subcu tissue disorders	2		Skin Conditions	
706.3	Skin & subcu tissue disorders	2		Skin Conditions	
707	Skin & subcu tissue disorders	21		Skin Conditions	takes 5 digits -- 00,01,02,03,04,05,06,07,09,10,11,12,13,14,15,19,8, or 9
707.02	Decubitus Ulcer	1		Skin Conditions	chg'd from 10 %-TZ
707.03	Decubitus Ulcer	6		Skin Conditions	
707.04	Decubitus Ulcer	3		Skin Conditions	
707.05	Decubitus Ulcer	9		Skin Conditions	
707.07	Decubitus Ulcer	4		Skin Conditions	
707.09	Decubitus Ulcer	3	26	Skin Conditions	New Dx??
707.1	Ulcer except decubitus	5		Skin Conditions	takes 5 digits, should be 10,11,12,13,14,15, or 19-TZ. Chgd from 10%-TZ
707.11	Ulcer except decubitus	2		Skin Conditions	
707.12	Ulcer except decubitus	1		Skin Conditions	
707.13	Ulcer except decubitus	3		Skin Conditions	
707.14	Ulcer except decubitus	2		Skin Conditions	
707.15	Ulcer except decubitus	1		Skin Conditions	
707.67	Not valid	1			
707.8	Skin & subcu tissue disorders	2		Skin Conditions	
707.9	Skin & subcu tissue disorders	3		Skin Conditions	
708.3	Skin & subcu tissue disorders	1		Skin Conditions	
708.9	Skin & subcu tissue disorders	2		Skin Conditions	
709.01	Skin & subcu tissue disorders	1		Skin Conditions	
709.1	Skin & subcu tissue disorders	1		Skin Conditions	
709.3	Skin & subcu tissue disorders	1		Skin Conditions	
709.8	Skin & subcu tissue disorders	2		Skin Conditions	New Dx -- NO
709.9	Skin & subcu tissue disorders	2		Skin Conditions	
710	Disorders musculoskeletal/connective tissue	8		Musculoskeletal	takes 4 digits, should be 0,1,2,3,4,5,8, or 9-TZ
710.1	Disorders musculoskeletal/connective tissue	1		Musculoskeletal	
711.05	Disorders musculoskeletal/connective tissue	1		Musculoskeletal	
711.84	Disorders musculoskeletal/connective tissue	1		Musculoskeletal	
711.9	Disorders musculoskeletal/connective tissue	1		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
711.95	Disorders musculoskeletal/connective	1		Musculoskeletal	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
	tissue				
712.3	Disorders musculoskeletal/connective tissue	1		Musculoskeletal	takes 5 digits -- 0 - 9-TZ First code underlying disease.
712.38	Disorders musculoskeletal/connective tissue	1		Musculoskeletal	
712.87	Disorders musculoskeletal/connective tissue	1		Musculoskeletal	New Dx -- NO
713	Disorders musculoskeletal/connective tissue	1		Musculoskeletal	takes 4 digits -- 0 -7 or 8-TZ First code underlying disease.
713.5	Disorders musculoskeletal/connective tissue	2		Musculoskeletal	
714	Rheumatoid Arthritis and other inflammatory polyarthropathies	34		Musculoskeletal	chgd title from 10 %-TZ -takes 4 or 5 digits -- 0,1,2,30,31,32,33,4,81,89, 9-TZ
714.89	Rheumatoid Arthritis and other inflammatory polyarthropathies	1		Musculoskeletal	
714.9	Rheumatoid Arthritis and other inflammatory polyarthropathies	2		Musculoskeletal	
715	Osteoarthritis	20		Musculoskeletal	takes 5 digits, 00, 04, 09 -18, 20 - 28,30 - 38, 80 - 98-TZ
715.04	Osteoarthritis	1		Musculoskeletal	
715.08	Osteoarthritis	1		Musculoskeletal	invalid 5th digit, should be 0,4 or 9-TZ
715.09	Osteoarthritis	19		Musculoskeletal	
715.16	Osteoarthritis	1		Musculoskeletal	
715.19	Osteoarthritis	1		Musculoskeletal	invalid 5th digits, should be 0,1,2,3,4,5,6,7or 8-TZ
715.29	Osteoarthritis	1		Musculoskeletal	invalid 5th digits, should be 0,1,2,3,4,5,6,7or 8-TZ
715.36	Osteoarthritis	2		Musculoskeletal	
715.8	Osteoarthritis	2		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
715.88	Osteoarthritis	1		Musculoskeletal	
715.89	Osteoarthritis	3		Musculoskeletal	
715.9	Osteoarthritis	176		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7 or 8-TZ
715.91	Osteoarthritis	2		Musculoskeletal	
715.93	Osteoarthritis	1		Musculoskeletal	
715.94	Osteoarthritis	1		Musculoskeletal	
715.95	Osteoarthritis	11		Musculoskeletal	
715.96	Osteoarthritis	15		Musculoskeletal	
715.97	Osteoarthritis	1		Musculoskeletal	
715.98	Osteoarthritis	10		Musculoskeletal	
716.8	Osteoarthritis	1		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7, 8 or 9-TZ
716.89	Arthritis	1		Musculoskeletal	
716.9	Arthritis	6		Musculoskeletal	
716.95	Arthritis	3		Musculoskeletal	
716.96	Arthritis	3		Musculoskeletal	
716.98	Arthritis	1		Musculoskeletal	
716.99	Arthritis	3	324	Musculoskeletal	Current Dx 11L
718.2	Joint disorders	1		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
718.31	Joint disorders	1		Musculoskeletal	
718.4	Joint disorders	8		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
718.42	Joint disorders	1		Musculoskeletal	
718.44	Joint disorders	6		Musculoskeletal	
718.45	Joint disorders	2		Musculoskeletal	
718.46	Joint disorders	1		Musculoskeletal	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
718.47	Joint disorders	1		Musculoskeletal	
718.48	Joint disorders	2		Musculoskeletal	
718.49	Joint disorders	10		Musculoskeletal	
718.51	Joint disorders	1		Musculoskeletal	
718.55	Joint disorders	1		Musculoskeletal	
718.81	Joint disorders	1		Musculoskeletal	
718.85	Joint disorders	1		Musculoskeletal	
718.86	Joint disorders	1		Musculoskeletal	
719.07	Joint disorders	1		Musculoskeletal	
719.1	Joint disorders	1		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
719.2	Joint disorders	1		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
719.4	Joint disorders	6		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
719.41	Joint disorders	4		Musculoskeletal	
719.45	Joint disorders	6		Musculoskeletal	
719.46	Joint disorders	7		Musculoskeletal	
719.47	Joint disorders	1		Musculoskeletal	
719.48	Joint disorders	1		Musculoskeletal	
719.49	Joint disorders	5		Musculoskeletal	
719.59	Joint disorders	1		Musculoskeletal	
719.7	Joint disorders	77		Musculoskeletal	
719.89	Joint disorders	2		Musculoskeletal	
719.9	Joint disorders	2		Musculoskeletal	takes 5 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
719.95	Joint disorders	1		Musculoskeletal	
719.96	Joint disorders	2		Musculoskeletal	
720	Joint disorders	1		Musculoskeletal	takes 4 or 5 digits, should be 0,1,2,81,89 or 9-TZ
720.9	Joint disorders	1	158	Musculoskeletal	New Dx -- NO (pick up with function)
721	Back disorders	1		Musculoskeletal	takes 4 or 5 digits, should be 0,1,2,3,41,42,5,6,7,8,90 or 91-TZ
721.1	Back disorders	4		Musculoskeletal	
721.3	Back disorders	3		Musculoskeletal	
721.41	Back disorders	2		Musculoskeletal	
721.9	Back disorders	6		Musculoskeletal	
722.1	Back disorders	1		Musculoskeletal	takes 5 digits, should be 10 or 11-TZ
722.2	Back disorders	2		Musculoskeletal	
722.4	Back disorders	1		Musculoskeletal	
722.52	Back disorders	8		Musculoskeletal	
722.6	Back disorders	9		Musculoskeletal	
722.71	Back disorders	1		Musculoskeletal	
722.9	Back disorders	5		Musculoskeletal	takes 5 digits, should be 90,91,92 or 93-TZ
722.93	Back disorders	3		Musculoskeletal	
723	Back disorders	6		Musculoskeletal	takes 4 digits, should be 0,1,2,3,4,5,6,7,8, or 9-TZ
723.1	Back disorders	1		Musculoskeletal	
723.5	Back disorders	3		Musculoskeletal	
724	Back disorders	38		Musculoskeletal	takes 4 or 5 digits, should be 00,01,02,09,1,2,3,4,5,6,70,71,79,8, or 9-TZ
724.02	Back disorders	26		Musculoskeletal	
724.09	Back disorders	2		Musculoskeletal	
724.1	Back disorders	2		Musculoskeletal	
724.2	Back disorders	45		Musculoskeletal	
724.3	Back disorders	5		Musculoskeletal	
724.4	Back disorders	1		Musculoskeletal	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
724.5	Back disorders	37		Musculoskeletal	
724.8	Back disorders	1		Musculoskeletal	
724.9	Back disorders	1	214	Musculoskeletal	New Dx -- NO
725	Rheumatism, excluding back	16	16	Musculoskeletal	New Dx -- NO
726	Peripheral enthesopathies	6		Musculoskeletal	takes 4 or 5 dig -- 0,10,11,12,19,2,30 - 33,39,4,5,61 - 65,69 - 73,79,8,90, 91
726.1	Peripheral enthesopathies	2		Musculoskeletal	takes 5 digits, should be 10,11,12 or 19-TZ
726.11	Peripheral enthesopathies	1		Musculoskeletal	
726.2	Peripheral enthesopathies	1		Musculoskeletal	
726.33	Peripheral enthesopathies	1		Musculoskeletal	takes only 4 digits-TZ
726.5	Peripheral enthesopathies	2		Musculoskeletal	
726.71	Peripheral enthesopathies	1		Musculoskeletal	
726.91	Peripheral enthesopathies	1		Musculoskeletal	New Dx -- NO
727.1	Disorder synovium, tendon, bursa	1		Musculoskeletal	
727.3	Disorder synovium, tendon, bursa	4		Musculoskeletal	
727.31	Disorder synovium, tendon, bursa	1		Musculoskeletal	only takes 4 digits-TZ
727.4	Disorder synovium, tendon, bursa	1		Musculoskeletal	takes 5 digits-TZ
727.51	Disorder synovium, tendon, bursa	2		Musculoskeletal	
727.61	Disorder synovium, tendon, bursa	2	11	Musculoskeletal	New Dx -- NO
728.2	Disorder muscle, ligamnet, fascia	19		Musculoskeletal	
728.3	Disorder muscle, ligamnet, fascia	6		Musculoskeletal	
728.6	Disorder muscle, ligamnet, fascia	1		Musculoskeletal	
728.85	Disorder muscle, ligamnet, fascia	16		Musculoskeletal	
728.86	Disorder muscle, ligamnet, fascia	1		Musculoskeletal	
728.87	Muscle weakness	85	85	Musculoskeletal	New Dx -- NO
728.88	Disorder muscle, ligamnet, fascia	12		Musculoskeletal	
728.89	Disorder muscle, ligamnet, fascia	3		Musculoskeletal	
728.9	Disorder muscle, ligamnet, fascia	9	52	Musculoskeletal	New Dx -- NO
729	Soft tissue disorders	1		Musculoskeletal	takes 4 or 5 digits -- 0,1,2,30,31,39,4,5,6,71,72,73,79,81,82,89, or 9-TZ
729.1	Soft tissue disorders	13		Musculoskeletal	
729.2	Soft tissue disorders	6		Musculoskeletal	
729.39	Soft tissue disorders	1		Musculoskeletal	
729.4	Soft tissue disorders	1		Musculoskeletal	
729.5	Soft tissue disorders	10		Musculoskeletal	
729.81	Soft tissue disorders	1		Musculoskeletal	
729.82	Soft tissue disorders	4		Musculoskeletal	
729.89	Soft tissue disorders	5		Musculoskeletal	
729.9	Soft tissue disorders	6	48	Musculoskeletal	New Dx -- NO
730	Osteo/Chondro/acq musc def	1		Musculoskeletal	takes 5 digits, should be 00 - 39, 70 - 99-TZ
730.07	Osteo/Chondro/acq musc def	1		Musculoskeletal	
730.1	Osteo/Chondro/acq musc def	1		Musculoskeletal	takes 5 digits, should be 10,11,12,13,14,15,16,17,18 or 19-TZ
730.15	Osteo/Chondro/acq musc def	1		Musculoskeletal	
730.2	Osteo/Chondro/acq musc def	5		Musculoskeletal	takes 5 digits, should be 20,21,22,23,24,25,26,27,28,or 29-TZ
730.26	Osteo/Chondro/acq musc def	2		Musculoskeletal	
730.27	Osteo/Chondro/acq musc def	3		Musculoskeletal	
730.28	Osteo/Chondro/acq musc def	3		Musculoskeletal	New Dx -- NO
730.29	Osteo/Chondro/acq musc def	1		Musculoskeletal	
730.75	Osteo/Chondro/acq musc def	1		Musculoskeletal	
730.76	Osteo/Chondro/acq musc def	1		Musculoskeletal	
730.8	Osteo/Chondro/acq musc def	1		Musculoskeletal	takes 5 digits, should be 80,81,82,83,84,85,86,87,88, or89-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
730.86	Osteo/Chondro/acq musc def	1		Musculoskeletal	
730.97	Osteo/Chondro/acq musc def	1		Musculoskeletal	
731	Osteo/Chondro/acq musc def	9		Musculoskeletal	takes 4 digits, should be 0,1,2,3, or 8-TZ
732.1	Osteo/Chondro/acq musc def	1		Musculoskeletal	
732.2	Osteo/Chondro/acq musc def	1		Musculoskeletal	
733	Osteoporosis	41	41	Musculoskeletal	Current Dx I1O Takes 4 or 5 dig -- 00 - 03, 09 - TZ
733.1	Pathological bone fracture (unspecified sites)	0		Musculoskeletal	takes 5 digits, should be 10,11,12,13,14,15,16 or 19-TZ
733.13	Pathological bone fracture (unspecified sites)	18		Musculoskeletal	
733.14	Pathological bone fracture (unspecified sites)	1		Musculoskeletal	
733.19	Pathological bone fracture (unspecified sites)	1	20	Musculoskeletal	Current Dx I1P (from Oct 1995 MDS Manual -- code 733.1)
733.21	Disorder bone/cartilage	1		Musculoskeletal	
733.4	Disorder bone/cartilage	3		Musculoskeletal	takes 5 digits, should be 40,41,42,43,44, or 49-TZ
733.6	Disorder bone/cartilage	1		Musculoskeletal	
733.82	Disorder bone/cartilage	1		Musculoskeletal	
733.9	Disorder bone/cartilage	36		Musculoskeletal	takes 5 digits, should be 90,91,92,93,94,95 or 99-TZ
733.99	Disorder bone/cartilage	1	43	Musculoskeletal	New Dx -- NO
735.4	Osteo/Chondro/acq musc def	1		Musculoskeletal	
735.8	Osteo/Chondro/acq musc def	1		Musculoskeletal	
735.9	Osteo/Chondro/acq musc def	1		Musculoskeletal	
736.79	Osteo/Chondro/acq musc def	4		Musculoskeletal	New Dx -- NO
736.89	Missing Limb (e.g. amputation)	0	0	Musculoskeletal	Current Dx I1N (from Oct 1995 MDS Manual) also V49.60-V49.69
737.1	Curvature of spine	18		Musculoskeletal	takes 5 digits, should be 10,11,12 or 19-TZ. V49.70-V49.79
737.19	Curvature of spine	1		Musculoskeletal	
737.3	Curvature of spine	24		Musculoskeletal	takes 5 digits, should be 30,31,32,33,34 or 39-TZ
737.34	Curvature of spine	1		Musculoskeletal	
737.39	Curvature of spine	1		Musculoskeletal	
737.41	Curvature of spine	2	47	Musculoskeletal	New Dx -- NO
738.2	Other acq deformity	1		Musculoskeletal	
738.4	Other acq deformity	1		Musculoskeletal	
738.5	Other acq deformity	1		Musculoskeletal	
738.9	Other acq deformity	1		Musculoskeletal	
739.7	Disorder muscle, ligamnet, fascia	1	1	Musculoskeletal	New Dx -- NO
740.7	Congenital anomalies	1		Other	invalid 4th digit, should be 0,1 or 2-TZ
741.9	Congenital anomalies	2		Other	takes 5 digits, should be 0,1,2 or 3-TZ
742	Congenital anomalies	1		Other	takes 4 or 5 digits, should be 0,1,2,3,4,51,53,59,8 or 9-TZ
742.3	Congenital anomalies	2		Other	
742.59	Congenital anomalies	2		Other	
742.9	Congenital anomalies	1		Other	
745.5	Congenital anomalies	1		Other	
746	Congenital anomalies	1		Other	takes 4 or 5 dig -- 00 - 02,09,1 - 7,81 - 89 or 9-TZ
746.6	Congenital anomalies	7		Other	
746.85	Congenital anomalies	5		Other	
746.9	Congenital anomalies	1		Other	
747.22	Congenital anomalies	2		Other	
750.15	Congenital anomalies	1		Other	
750.6	Congenital anomalies	4		Other	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
750.61	Congenital anomalies	1		Other	only takes 4 digits-TZ
750.8	Congenital anomalies	1		Other	
753.1	Congenital anomalies	1		Other	takes 5 digits --10,11,12,13,14,15,16,17 or 19-TZ
753.13	Congenital anomalies	1		Other	
754.2	Congenital anomalies	3		Other	
754.3	Congenital anomalies	1		Other	takes 5 digits, should be 30,31,32,33 or 35-TZ
754.89	Congenital anomalies	2		Other	
755.34	Congenital anomalies	1		Other	
755.38	Congenital anomalies	1		Other	
755.6	Congenital anomalies	1		Other	takes 5 digits, should be 0,1,2,3,4,5,6,7 or 9-TZ
755.63	Congenital anomalies	3		Other	
756.1	Congenital anomalies	1		Other	takes 5 digits should be 0,1,2,3,4,5,6,7 or 9-TZ
756.11	Congenital anomalies	1		Other	
756.12	Congenital anomalies	4		Other	
756.17	Congenital anomalies	1		Other	
756.19	Congenital anomalies	4		Other	
756.4	Congenital anomalies	1		Other	
756.5	Congenital anomalies	1		Other	takes 5 digits, should be 0,1,2,3,4,5,6 or 9-TZ
757.1	Congenital anomalies	1		Other	
758	Congenital anomalies	7		Other	takes 4 or 5 digits, should be 0,1,2,31,32,33,39,4,5,6,7,81,89 or 9-TZ
759.83	Congenital anomalies	3		Other	
759.89	Congenital anomalies	2		Other	
767	Congenital anomalies	1		Other	takes 4 or 5 digits, should be 0,11,19,2,3,4,5,6,7,8 or 9-TZ
770.81	Congenital anomalies	2		Other	
771.2	Congenital anomalies	1	77	Other	New Dx -- NO (all diff sites)
780	General Symptoms	2		Gen Signs, Sympt, III-defined	takes 4 or 5 dig--01 - 03,09,1,2,31,32,39,4,50 - 52,54 - 59,6,71,79,8,91 - 97 99
780.01	General Symptoms	3		Gen Signs, Sympt, III-defined	
780.03	General Symptoms	7		Gen Signs, Sympt, III-defined	
780.09	General Symptoms	4		Gen Signs, Sympt, III-defined	
780.1	Hallucinations	7	7	Problem Condition	Current Health Condition J1I
780.2	Syncope	38	38	Problem Condition	Current Health Condition J1M
780.3	Seizure disorder	3		Neurological	Current Dx I1AA (from Oct 1995 MDS Manual), 5 dig --31,32 or 39-TZ
780.39	Other convulsions	41	44	Gen Signs, Sympt, III-defined	(add with seizure disorder)
780.4	Dizziness	9		Problem Condition	
780.41	Dizziness	1	10	Problem Condition	Current Health Condition J1F (also see 300.11) only takes 4 digits-TZ
780.5	Sleep Disturbances	6		Gen Signs, Sympt, III-defined	These Sleep Apnea?--no--only 780.51, 780.53 a& 780.57 takes 5 dig -- 0 - 9
780.51	Sleep Apnea	2		Gen Signs, Sympt, III-defined	
780.52	Insomnia, no apnea	115	115	Gen Signs, Sympt, III-defined	New Dx??
780.53	Sleep Apnea	2		Gen Signs, Sympt, III-defined	
780.57	Sleep Apnea	28	38	Gen Signs, Sympt, III-defined	Current Dx in Addendum XIB
780.59	Sleep disturbance	1	1	Gen Signs, Sympt, III-defined	
780.6	Fever	1	1	Problem Condition	Current Health Condition J1H
780.7	General Symptoms	6		Gen Signs, Sympt, III-defined	takes 5 digits, should be 1 or 9-TZ
780.79	General Symptoms	89		Gen Signs, Sympt, III-defined	
780.8	General Symptoms	1		Gen Signs, Sympt, III-defined	
780.9	General Symptoms	25		Gen Signs, Sympt, III-defined	takes 5 digits, should be 1,2,3,4,5,6,7 or 9-TZ
780.93	General Symptoms	9		Gen Signs, Sympt, III-defined	
780.96	General Symptoms	3		Gen Signs, Sympt, III-defined	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
780.97	General Symptoms	2		Gen Signs, Sympt, III-defined	
780.99	General Symptoms	41		Gen Signs, Sympt, III-defined	
781	General Symptoms	13		Gen Signs, Sympt, III-defined	
781.2	Unsteady Gait	51		Problem Condition	Current Health Condition JIN
781.21	Unsteady Gait	1	52	Problem Condition	Current Health Condition JN. Only takes 4 digits-TZ
781.3	General Symptoms	19		Gen Signs, Sympt, III-defined	
781.92	General Symptoms	6		Gen Signs, Sympt, III-defined	
781.94	General Symptoms	2		Gen Signs, Sympt, III-defined	
782.1	General Symptoms	8		Gen Signs, Sympt, III-defined	
782.2	General Symptoms	1		Gen Signs, Sympt, III-defined	
782.3	Edema	74	74	Problem Condition	Current Health Condition JIG
782.4	General Symptoms	3		Gen Signs, Sympt, III-defined	
783	General Symptoms	26		Gen Signs, Sympt, III-defined	takes 4 or 5 digits, should be 0,1,21,22,3,40,41,42,43,5,6,7 or 9-TZ
783.07	General Symptoms	1		Gen Signs, Sympt, III-defined	only takes 4 digits-TZ
783.2	General Symptoms	4		Gen Signs, Sympt, III-defined	takes 5 digits, should be 1 or 2-TZ
783.21	General Symptoms	10		Gen Signs, Sympt, III-defined	
783.3	General Symptoms	3		Gen Signs, Sympt, III-defined	
783.41	General Symptoms	2		Gen Signs, Sympt, III-defined	
783.5	General Symptoms	3		Gen Signs, Sympt, III-defined	
783.7	General Symptoms	43		Gen Signs, Sympt, III-defined	
784	General Symptoms	9		Gen Signs, Sympt, III-defined	takes 4 or 5 digits, should be 0,1,2,3,40,41,49,5,60,61,69,7,8,91 or 99-TZ
784.2	General Symptoms	4		Gen Signs, Sympt, III-defined	
784.3	Aphasia	20	20	Gen Signs, Sympt, III-defined	Current Dx I1R
784.4	General Symptoms	1		Gen Signs, Sympt, III-defined	
784.5	General Symptoms	25		Gen Signs, Sympt, III-defined	
784.51	General Symptoms	1		Gen Signs, Sympt, III-defined	only takes 4 digits-TZ
784.6	General Symptoms	12		Gen Signs, Sympt, III-defined	takes 5 digits, should be 0,1 or 9-TZ
784.69	General Symptoms	9		Gen Signs, Sympt, III-defined	
785	General Symptoms	3		Gen Signs, Sympt, III-defined	takes 4 or 5 digits, should be 0,1,2,3,4,51,52,59,6 or 9-TZ
785.2	General Symptoms	1		Gen Signs, Sympt, III-defined	
785.4	General Symptoms	3		Gen Signs, Sympt, III-defined	
785.6	General Symptoms	2		Gen Signs, Sympt, III-defined	
785.7	Not valid	1		Gen Signs, Sympt, III-defined	not a valid 4th digit-TZ
786.05	Shortness of Breath	2	2	Problem Condition	Current Health Condition JIL
786.07	General Symptoms	1		Gen Signs, Sympt, III-defined	
786.09	General Symptoms	11		Gen Signs, Sympt, III-defined	
786.2	General Symptoms	1		Gen Signs, Sympt, III-defined	
786.36	General Symptoms	1		Gen Signs, Sympt, III-defined	only takes 4 digits-TZ
786.5	General Symptoms	8		Gen Signs, Sympt, III-defined	takes 5 digits, should be 50,51 or 59-TZ
786.59	General Symptoms	1		Gen Signs, Sympt, III-defined	
786.6	General Symptoms	3		Gen Signs, Sympt, III-defined	
786.8	General Symptoms	1		Gen Signs, Sympt, III-defined	
787	General Symptoms	1		Gen Signs, Sympt, III-defined	takes 4 or 5 digits, should be 01,02,1,2,3,4,5,6,7,91 or 99-TZ
787.01	General Symptoms	5		Gen Signs, Sympt, III-defined	
787.02	General Symptoms	6		Gen Signs, Sympt, III-defined	
787.05	Not valid	0	0	Gen Signs, Sympt, III-defined	invalid 5th digit, should be 01,02 or 03-TZ
787.1	General Symptoms	6		Gen Signs, Sympt, III-defined	
787.2	Dysphagia	268	268	Gen Signs, Sympt, III-defined	New Dx
787.3	General Symptoms	2		Gen Signs, Sympt, III-defined	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
787.39	General Symptoms	1		Gen Signs, Sympt, III-defined	only takes 4 digits-no 9-TZ
787.5	General Symptoms	1		Gen Signs, Sympt, III-defined	
787.6	General Symptoms	4		Gen Signs, Sympt, III-defined	
787.91	Diarrhea	12		Gen Signs, Sympt, III-defined	
788	General Symptoms	1		Gen Signs, Sympt, III-defined	takes 4 or 5 dig -- 0,1,20,21,29 - 39,41 - 43,5,61 - 65,69,7,8 or 9-TZ
788.1	General Symptoms	1		Gen Signs, Sympt, III-defined	
788.2	Urinary retention	63		Gen Signs, Sympt, III-defined	takes 5 digits, should be 20,21 or29-TZ
788.21	Urinary retention	4		Gen Signs, Sympt, III-defined	
788.26	Urinary retention	1		Gen Signs, Sympt, III-defined	Not a valid 5th digit, only 20,21 or 29-TZ
788.29	Urinary Retention	1	69	Gen Signs, Sympt, III-defined	New Dx
788.3	Urinary incontinence	69		Gen Signs, Sympt, III-defined	takes 5 digits, should be 30,31,32,33,34,35,36,37,38 or 39-TZ
788.31	Urinary incontinence	11		Gen Signs, Sympt, III-defined	
788.316	Urinary incontinence	1		Gen Signs, Sympt, III-defined	takes only 5 digits, should be 30,31,32,33,34,35,36,37,38 or 39-TZ
788.32	Urinary incontinence	2		Gen Signs, Sympt, III-defined	
788.33	Urinary incontinence	2		Gen Signs, Sympt, III-defined	
788.34	Urinary incontinence	1		Gen Signs, Sympt, III-defined	
788.37	Urinary incontinence	1		Gen Signs, Sympt, III-defined	
788.39	Urinary incontinence	2	89	Gen Signs, Sympt, III-defined	New Dx -- NO
788.41	General Symptoms	6		Gen Signs, Sympt, III-defined	
788.63	General Symptoms	4		Gen Signs, Sympt, III-defined	
789	General Symptoms	8		Gen Signs, Sympt, III-defined	takes 4 or 5 dig --00 - 07,09,1,2,30 - 37,39 - 47,49,5,60 - 67,69 or 9-TZ
789.32	General Symptoms	1		Gen Signs, Sympt, III-defined	
789.33	General Symptoms	1		Gen Signs, Sympt, III-defined	
789.5	General Symptoms	8		Gen Signs, Sympt, III-defined	
789.52	General Symptoms	1		Gen Signs, Sympt, III-defined	takes only 4 digits no 5th required-TZ
790.03	Abnormal findings	1		Gen Signs, Sympt, III-defined	invalid 5th digit-TZ
790.22	Abnormal findings	1		Gen Signs, Sympt, III-defined	
790.29	Abnormal findings	1		Gen Signs, Sympt, III-defined	
790.6	Abnormal findings	9		Gen Signs, Sympt, III-defined	
790.7	Abnormal findings	4		Gen Signs, Sympt, III-defined	
791.9	Abnormal findings	1		Gen Signs, Sympt, III-defined	
793.7	Abnormal findings	1		Gen Signs, Sympt, III-defined	
794.5	Abnormal findings	1		Gen Signs, Sympt, III-defined	
795.5	Abnormal findings	11		Gen Signs, Sympt, III-defined	
796.9	Abnormal findings	1		Gen Signs, Sympt, III-defined	
797	Abnormal findings	4		Gen Signs, Sympt, III-defined	takes 4 digits, should be 0,1,2,3,4,5,6 or 9-TZ
799	III defined/unknown causes morbidity/mortality	6		Gen Signs, Sympt, III-defined	takes 4 or 5 digits, should be 01,02,1,2,3,4,81,89 or 9-TZ
799.02	III defined/unknown causes morbidity/mortality	9		Gen Signs, Sympt, III-defined	
799.04	III defined/unknown causes morbidity/mortality	1		Gen Signs, Sympt, III-defined	invalid 5th digit, should be 01 or 02-TZ
799.1	III defined/unknown causes morbidity/mortality	1		Gen Signs, Sympt, III-defined	
799.2	III defined/unknown causes morbidity/mortality	1		Gen Signs, Sympt, III-defined	
799.3	Debility	67	67	Gen Signs, Sympt, III-defined	New Dx -- NO
799.4	General Symptoms	16		Gen Signs, Sympt, III-defined	
799.89	General Symptoms	1		Gen Signs, Sympt, III-defined	New Dx -- NO
801	Fractures skull	1		Musculoskeletal	takes 5 dig --00 - 06,09 - 16,19 - 26,29 - 36,39 - 46,49 - 56

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
801.03	Fractures skull	1		Musculoskeletal	
801.2	Fractures skull	1		Musculoskeletal	takes 5 digits, should be 20,21,22,23,24,25,26 or 29-TZ
801.9	Fractures skull	1		Musculoskeletal	takes 5 digits, should be 90,91,92,93,94,95,96 or 99-TZ
802	Fractures skull	3		Musculoskeletal	takes 4 or 5 digits, should be 20,21,22,23,24,25,26,27,28 or 29-TZ
802.6	Fractures skull	1		Musculoskeletal	
803.2	Fractures skull	2		Musculoskeletal	takes 5 digits, should be 20,21,22,23,24,25,26, or 29-TZ
803.7	Fractures skull	1	10	Musculoskeletal	New Dx -- NO--takes 5 digits, should be 70,71,72,73,74,75,76 or 79-TZ
805	Fractures neck & trunk	1		Musculoskeletal	takes 4 or 5 dig -- 00 - 08,10,11,12,13,14,15,16,17,18,2 - 9-TZ
805.1	Fractures neck & trunk	2		Musculoskeletal	takes 5 digits, should be 10,11,12,13,14,15,16,17or 18 -TZ
805.2	Fractures neck & trunk	6		Musculoskeletal	
805.4	Fractures neck & trunk	10		Musculoskeletal	
805.5	Fractures neck & trunk	1		Musculoskeletal	
805.6	Fractures neck & trunk	5		Musculoskeletal	
805.8	Fractures neck & trunk	8		Musculoskeletal	
807	Fractures neck & trunk	8		Musculoskeletal	takes 4 or 5 dig -- 00 - 19,2,3,4,5 or 6-TZ
807.01	Fractures neck & trunk	1		Musculoskeletal	
807.02	Fractures neck & trunk	1		Musculoskeletal	
807.09	Fractures neck & trunk	2		Musculoskeletal	
807.2	Fractures neck & trunk	1		Musculoskeletal	
808	Fractures neck & trunk	2		Musculoskeletal	takes 4 or 5 digits, should be 0,1,2,3,41,42,43,49,51,52,53,59,8 or 9-TZ
808.2	Fractures neck & trunk	5		Musculoskeletal	
808.3	Fractures neck & trunk	1		Musculoskeletal	
808.43	Fractures neck & trunk	1		Musculoskeletal	
808.8	Fractures neck & trunk	15	70	Musculoskeletal	New Dx -- NO
810	Fractures upper limb	2		Musculoskeletal	takes 5 digits, should be 00,01,02,03,10,11,12 or 13-TZ
811	Fractures upper limb	1		Musculoskeletal	takes 5 digits, should be 00,01,02,03,09,10,11,12,13 or 19-TZ
811.03	Fractures upper limb	1		Musculoskeletal	
811.9	Not valid	1			takes 5 digits and not a valid 4th digit-TZ
812	Fractures upper limb	2		Musculoskeletal	takes 5 dig - 00,01,02,03,09 - 13,19 - 21,30,31,40 - 44,49 - 54 or 59-TZ
812.02	Fractures upper limb	1		Musculoskeletal	
812.09	Fractures upper limb	1		Musculoskeletal	
812.2	Fractures upper limb	8		Musculoskeletal	takes 5 digits, should be 20 or 21-TZ
812.21	Fractures upper limb	1		Musculoskeletal	
812.4	Fractures upper limb	1		Musculoskeletal	takes 5 digits, should be 40,41,42,43,44 or 49-TZ
812.41	Fractures upper limb	1		Musculoskeletal	
812.49	Fractures upper limb	1		Musculoskeletal	
813.01	Fractures upper limb	1		Musculoskeletal	
813.42	Fractures upper limb	3		Musculoskeletal	
813.81	Fractures upper limb	4		Musculoskeletal	
813.9	Fractures upper limb	1		Musculoskeletal	takes 5 digits, should be 90,91,92 or 93-TZ
814	Fractures upper limb	3		Musculoskeletal	takes 5 dig -- 00 -19-TZ
815	Fractures upper limb	1		Musculoskeletal	takes 5 digits, should be 00,01,02,03,04,09,10,12,13,14 or 19-TZ
815.25	Not valid	1		Musculoskeletal	invalid 4th digit, should be 0 or 1-TZ
818	Fractures upper limb	2		Musculoskeletal	New Dx -- NO--takes 4 digits, should be 0 or 1-TZ
820.03	Fracture hip	1		Musculoskeletal	
820.09	Fracture hip	3		Musculoskeletal	
820.2	Fracture hip	5		Musculoskeletal	takes 5 digits, should be 20,21 or 22-TZ
820.21	Fracture hip	8		Musculoskeletal	
820.8	Fracture hip	36		Musculoskeletal	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
820.9	Fracture hip	5		Musculoskeletal	
821	Fracture hip	16		Musculoskeletal	takes 5 digits, should be 00,01,10,11,20,21,22,23,29,30,31,32,33 or 39-TZ
821.01	Fracture hip	1		Musculoskeletal	
821.2	Fracture hip	4		Musculoskeletal	takes 5 digits, should be 20,21,22,23 or 29-TZ
821.207	Fracture hip	1		Musculoskeletal	takes only 5 digits, no 7 required-TZ
821.23	Fracture hip	2	82	Musculoskeletal	Current Dx 11M
822	Fractures lower limb	1		Musculoskeletal	takes 4 digits, should be 0 or 1-TZ
823	Fractures lower limb	2		Musculoskeletal	takes 5 dig -- 00 -12,20,21,22,30,31,32,40,41, 42,80,81,82,90,91 or 92-TZ
823.2	Fractures lower limb	1		Musculoskeletal	takes 5 digits, should be 0,1 or 2-TZ
823.8	Fractures lower limb	2		Musculoskeletal	takes 5 digits, should be 0,1 or 2-TZ
823.81	Fractures lower limb	1		Musculoskeletal	
823.82	Fractures lower limb	1		Musculoskeletal	
824	Fractures lower limb	4		Musculoskeletal	takes 4 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
824.2	Fractures lower limb	1		Musculoskeletal	
824.4	Fractures lower limb	2		Musculoskeletal	
824.8	Fractures lower limb	13		Musculoskeletal	
824.9	Fractures lower limb	1		Musculoskeletal	
825.2	Fractures lower limb	1		Musculoskeletal	New Dx -- NO--takes 5 digits, should be 20,21,22,23,24,25 or 29-TZ
825.29	Fractures lower limb	1		Musculoskeletal	
829	Fractures lower limb	3		Musculoskeletal	takes 4 digits, should be 0 or 1-TZ
830.81	Invalid	1	37	Musculoskeletal	takes only 4 digits, invalid 4th digit-TZ
831	Dislocations	2		Musculoskeletal	takes 5 digits, should be 00,01,02,03,04,09,10,12,13,14 or 19-TZ
831.19	Dislocations	1		Musculoskeletal	
832	Dislocations	1		Musculoskeletal	takes 5 digits, should be 00,01,02,03,04,09,10,11,12,13,14 or 19-TZ
833	Dislocations	1		Musculoskeletal	takes 5 digits, should be 00,01,02,03,04,05,09,10,11,12,13,14,15 or 19-TZ
835	Dislocations	4		Musculoskeletal	takes 5 digits, should be 00,01,02,03,10,11,12 or 13-TZ
839.8	Dislocations	1	10	Musculoskeletal	New Dx -- NO
840.4	Sprains/Strains	1		Musculoskeletal	
844.8	Sprains/Strains	1		Musculoskeletal	
845	Sprains/Strains	3		Musculoskeletal	takes 5 digits, should be 00,01,02,03,09,10,11,12,13 or 19-TZ
845.09	Sprains/Strains	1		Musculoskeletal	
846	Sprains/Strains	1		Musculoskeletal	takes 4 digits, should be 0,1,2,3,4 or 9-TZ
847	Sprains/Strains	1		Musculoskeletal	takes 4 digits, should be 0,1,2,3,4 or 9-TZ
847.9	Sprains/Strains	1		Musculoskeletal	
848.41	Sprains/Strains	1		Musculoskeletal	
848.5	Sprains/Strains	1	11	Musculoskeletal	New Dx -- NO
852	Intracra injury ex skull fract	2		Musculoskeletal	takes 5 dig - 00 - 06, 09 -16,19 - 26,29 - 36,39 - 46,49 - 56 or 59-TZ
852.2	Intracra injury ex skull fract	6		Musculoskeletal	takes 5 digits, should be 20,21,22,23,24,25,26 or 29-TZ
852.3	Intracra injury ex skull fract	1		Musculoskeletal	takes 5 digits, should be 30,31,32,33,34,35,36 or 39-TZ
853	Intracra injury ex skull fract	5	14	Musculoskeletal	New Dx -- NO--takes 5 digits -- 00,01,02,03,04,05,06,09 - 16 or 19-TZ
854	Tramatic brain injury (unspecified)	5	5	Injuries	Current Dx 11CC (from Oct 1995 MDS Manual) Takes 5 dig -- 10-16 or 19 - TZ
862.6	Internal inj thorax,abd & pelvis	1		Injuries	invalid 4th digit-TZ
863.5	Internal inj thorax,abd & pelvis	1		Injuries	takes 5 digits, should be 50,51,52,53,54,55,56 or 59-TZ
864.05	Internal inj thorax,abd & pelvis	1	3	Injuries	
873.4	Open wound head, neck & trunk	1		Injuries	takes 5 digits, should be 40,41,42,43,44 or 49-TZ
873.8	Open wound head, neck & trunk	2		Injuries	
879.2	Open wound head, neck & trunk	1		Injuries	
879.9	Open wound head, neck & trunk	1	5	Injuries	
885	Open wound upper limb	1		Injuries	takes 4 digits, should be 0 or 1-TZ

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
886	Open wound upper limb	1		Injuries	takes 4 digits, should be 0 or 1-TZ
887	Open wound upper limb	1		Injuries	New Dx -- NO--takes 4 digits, should be 0,1,2,3,4,5,6 or 7-TZ
887.4	Open wound upper limb	1		Injuries	
888.8	Not valid	1			Double check Please. Double checked , no code - TZ
890	Open wound lower limb	2		Injuries	takes 4 digits, should be 0,1 or 2-TZ
890.1	Open wound lower limb	1		Injuries	
891	Open wound lower limb	1		Injuries	takes 4 digits, should be 0,1 or 2-TZ
891.2	Open wound lower limb	1		Injuries	
892	Open wound lower limb	2		Injuries	takes 4 digits, should be 0,1 or 2-TZ
892.1	Open wound lower limb	2		Injuries	
895	Open wound lower limb	1		Injuries	takes 4 digits, should be 0 or 1-TZ
895.1	Open wound lower limb	1		Injuries	
896	Open wound lower limb	1		Injuries	takes 4 digits, should be 0,1,2 or 3-TZ
897	Open wound lower limb	5		Injuries	takes 4 digits, should be 0,1,2,3,4,5,6 or 7-TZ
897.2	Open wound lower limb	8		Injuries	
897.6	Open wound lower limb	2	31	Injuries	New Dx -- NO
905	Late effect injury	1		Injuries	takes 4 digits, should be 0,1,2,3,4,5,6,7,8 or 9-TZ
905.1	Late effect injury	1		Injuries	
905.3	Late effect injury	1		Injuries	
905.4	Late effect injury	2		Injuries	
906.3	Late effect injury	1		Injuries	
907	Late effect injury	5		Injuries	takes 4 digits, should be 0,1,2,3,4,5 or 9-TZ
907.2	Late effect injury	1		Injuries	
907.9	Late effect injury	1		Injuries	
908.6	Late effect injury	1		Injuries	
909	Late effect injury	1	15	Injuries	New Dx -- NO--takes 4 digits, should be 0,1,2,3,4,5 or 9-TZ
915.9	Superficial Injury	1		Injuries	
919.8	Superficial Injury	1	2	Injuries	
920	Contusions	4		Injuries	
922.1	Contusions	2		Injuries	
922.32	Contusions	1		Injuries	
924.01	Contusions	4		Injuries	
924.2	Contusions	1	12	Injuries	New Dx -- NO
952.03	Injury nerve/spinal cord	1		Injuries	
952.05	Injury nerve/spinal cord	1		Injuries	
952.09	Injury nerve/spinal cord	1		Injuries	
952.7	Injury nerve/spinal cord	1		Injuries	invalid 4th digits, should be 00,1,2,3,4,8 or 9-TZ
952.9	Injury nerve/spinal cord	1		Injuries	
953.4	Injury nerve/spinal cord	1		Injuries	
953.52	Injury nerve/spinal cord	1		Injuries	only takes 4 digits-don't need the 5th-TZ
955.84	Injury nerve/spinal cord	1	8	Injuries	only takes 4 digits-don't need the 5th-TZ. New Dx??
958.3	Wound Infection	1		I 2. Infections	Also see 998.59
959.01	Injury other & unspecified	5		Injuries	
959.6	Injury other & unspecified	2		Injuries	
959.7	Injury other & unspecified	2		Injuries	
959.9	Injury other & unspecified	1	10	Injuries	
965.8	Poisoning	1		Injuries	
969.4	Poisoning	1		Injuries	
972.1	Poisoning	1	3	Injuries	

ICD9	General ICD9 Label	Freq 50%	Total 50%	MDS Sect I & J Disease Grp	Comments:
995	Certain adverse effects	2	2	Injuries	takes 4 or 5 dig -0,1,20,21,22,23,27,29,3,5,50 - 55,59 - 69,7,80 - 86,89 - 94-TZ
995.3	Allergies (unspecified)	4	4	I 2. Infections	Current Dx I1NN (from Oct 1995 MDS Manual)
995.59	Injury nerve/spinal cord	6	6	Injuries	New Dx -- NO
995.91	Sepsis	11	11	Other	New Infection -- NO
996.41	Compl surg/medical care	2		Other	
996.42	Compl surg/medical care	1		Other	
996.43	Compl surg/medical care	1		Other	
996.44	Compl surg/medical care	3		Other	
996.47	Compl surg/medical care	1		Other	
996.54	Compl surg/medical care	1		Other	
996.66	Inection/Inflm due to internal pros implant/grft	2	2	Other	chgd from 10 %-TZ
996.7	Compl surg/medical care	2		Other	takes 5 digits, should be 70,71,72,73,74,75,76,77,78 or 79-TZ
997.3	Compl surg/medical care	3		Other	New Dx -- NO
997.5	Compl surg/medical care	1		Other	
998.32	Compl surg/medical care	1		Other	
998.59	Wound Infection	3	4	I 2. Infections	Current Infection I2L (from Oct 1995 MDS Manual) (Also 958.3)
998.83	Compl surg/medical care	1	17	Other	See code 997.3
TUS	don't know what this is-- TZ)				

**Notes:**

1. See Spec Pop Code for Severe Mental Illness (SMI) groups (Psychiatric/Mood categories).
2. "From Oct 1995 MDS Manual" code was used when Tena of IFMC could not determine code because category was too broad. These codes may not include all possible codes for the category.
3. All of the MDS 2.0 Section I (I1 Dx and I2 Infections) codes are accounted for in the file. If the 50% STRIVE Sample did not have a given code, the category was typed in with the code(s) as defined by Tena of IFMC or used the Oct 1995 Manual codes.
4. The "Comments" column lists all the Dx (I1), Infections (I2), and Health Conditions (J1) currently listed in the MDS 2.0 for these items, except the following categories that were too broad:
  - J1A Weight gain or loss of 3 or more pounds within a 7 day preiod
  - J1B Inability to lie flat due to shortness of breath
  - J1D Insufficient fluid; did not consume all/almost all liquits provided during last 3 days
  - J1K Recurrent lung aspirations in last 90 days
5. Current MDS 2.0 Dx, Infections, and Health Conditions are highlighted in blue.
6. Possible new Dx (could also be Infections and Health Conditions) are highlighted in rose. These "new" categories were determined based on freqs seen in the STRIVE 50% sample.
7. Frequencies (columns Freq 50% and Total 50%) are from the 50% STRIVE data.

## A-23: STRIVE ICD-9 Variable Names

### Notes:

Using STRIVE 50% Data, ICD9 codes were identified by IFMC for items in the MDS 2.0 Sections I and J (I1, I2, and J1). See Appendix F - STRIVE ICD9 Code Labels.xls

Variables were created for each of the items in Sections I and J that had ICD9 codes listed in I3 items (I3a, I3b, I3c, I3d and I3e).

Variable Naming Convention (column B): The first part of name refers to the MDS 2.0 Sections I and J items (I1, I2, and J1) -- Example: "I2b\_" for item I2b. The second part of the name is "icd9" which refers to the ICD9 codes found in I3a, I3b, I3c, I3d and I3e. Example: I2b\_icd9. These variables are highlighted in blue.

New diagnoses variables that are not currently listed in the MDS 2.0 Sections I and J also were determined based on frequency and analytical decisions. These variables are highlighted in rose.

The final variables were developed using STRIVE 100% Data. (Because ICD9 codes came from the 50% STRIVE data, some ICD9 codes from the 100% data may not be included when the final variables were developed using STRIVE 100% data.)

**Table 45. ICD-9 Variable Names**

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
1		Cholera	
3		Infections	
3.21		Infections	
4.1		Infections	
5.1		Infections	
7		Infections	
8.45	I2b_icd9	Clostridium difficile (c diff)	I 2. Infections
8.87		Infections	
9		Infections	
11.9	I2i_icd9	Tuberculosis	I 2. Infections
18.81	I2i_icd9	Tuberculosis	I 2. Infections
24.5		Infections	
27.2		Infections	
28.87		Not valid	
31		Infections	
35.24		Infections	
36.17		infections	
37.7		Infections	
38.7		Not valid	
38.9	I2g_icd9	Septicemia	I 2. Infections
40		Infections	
41.11	I2a_icd9	Antibiotic resistant infect	I 2. Infections
41.19	I2a_icd9	Antibiotic resistant infect	I 2. Infections
41.4		Infections	
41.5		Infections	
41.85		infections	
41.89		Infections	
41.9	I2a_icd9	Antibiotic resistant infect	I 2. Infections
41.93		Not valid	
42	I2d_icd9	HIV Infection	I 2. Infections
42.92		Not valid	
45.9		Infections	
46.11		Infections	

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
46.3		Infections	
50		Infections	
53.13		Infections	
53.19		Infections	
53.71		Infections	
53.9		Infections	
54.3		Infections	
54.9		Infections	
57.89		Infections	
70	l2k_icd9	Viral hepatitis	I 2. Infections
70.1	l2k_icd9	Viral hepatitis	I 2. Infections
70.3	l2k_icd9	Viral Hepatitis	I 2. Infections
70.51	l2k_icd9	Viral Hepatitis	I 2. Infections
70.54	l2k_icd9	Viral hepatitis	I 2. Infections
70.59	l2k_icd9	Viral hepatitis	I 2. Infections
70.7	l2k_icd9	Viral hepatitis	I 2. Infections
78.0178		Infections	
78.5		Infections	
79.99		Infections	
81.51		Procedure Code	
81.53		Procedure Code	
85		Infections	
87.2		Procedure Code	
88.81		Infections	
94	l2h_icd9	syphilis - Sex Trans diseases	I 2. Infections
95.8	l2h_icd9	syphilis - Sex Trans diseases	I 2. Infections
96.5178		Not valid	
97.1	l2h_icd9	syphilis - Sex Trans diseases	I 2. Infections
97.9	l2h_icd9	syphilis - Sex Trans diseases	I 2. Infections
98.2	l2h_icd9	Sexually Transmitted diseases	I 2. Infections
99.9	l2h_icd9	Sexually Transmitted diseases (unspecified)	I 2. Infections
107.09		Not valid	
110.01		Infections	
110.4		Infections	
110.9		Infections	
112		Infections	
112.3		Infections	
112.84		Infections	
112.9		Infections	
115.9		Infections	
115.92		Infections	
117.3		Infections	
117.5		infections	
121.1		Infections	
124.13		Infections	
130.7		Infections	
136.1		Infections	
136.3	l2e_icd9	Pneumonia	I2. Infections
137.1		Infections	
138		Infections	
139.8		Infections	
143.3	l1pp_icd9	Cancer	Other
143.64	l1pp_icd9	Cancer	Other
143.65	l1pp_icd9	Cancer	Other
145.81	l1pp_icd9	Cancer	Other
146.11	l1pp_icd9	Cancer	Other

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
149	I1pp_icd9	Cancer	Other
150.9	I1pp_icd9	Cancer	Other
153.9	I1pp_icd9	Cancer	Other
154	I1pp_icd9	Cancer	Other
154.1	I1pp_icd9	Cancer	Other
154.13	I1pp_icd9	Cancer	Other
156.2	I1pp_icd9	Cancer	Other
157.1	I1pp_icd9	Cancer	Other
157.9	I1pp_icd9	Cancer	Other
158.49	I1pp_icd9	Cancer	Other
159	I1pp_icd9	Cancer	Other
161.9	I1pp_icd9	Cancer	Other
162.3	I1pp_icd9	Cancer	Other
162.9	I1pp_icd9	Cancer	Other
164.9	I1pp_icd9	Cancer	Other
166.7		Not valid	
170.9	I1pp_icd9	Cancer	Other
171.6	I1pp_icd9	Cancer	Other
172.6	I1pp_icd9	Cancer	Other
172.7	I1pp_icd9	Cancer	Other
172.9	I1pp_icd9	Cancer	Other
173.3	I1pp_icd9	Cancer	Other
173.4	I1pp_icd9	Cancer	Other
173.9	I1pp_icd9	Cancer	Other
174.8	I1pp_icd9	Cancer	Other
174.9	I1pp_icd9	Cancer	Other
177.5		Not valid	
179	I1pp_icd9	Cancer	Other
180.9	I1pp_icd9	Cancer	Other
182	I1pp_icd9	Cancer	Other
183	I1pp_icd9	Cancer	Other
185	I1pp_icd9	Cancer	Other
187.4	I1pp_icd9	Cancer	Other
188.9	I1pp_icd9	Cancer	Other
189	I1pp_icd9	Cancer	Other
189.3	I1pp_icd9	Cancer	Other
191	I1pp_icd9	Cancer	Other
191.9	I1pp_icd9	Cancer	Other
194.3	I1pp_icd9	Cancer	Other
195	I1pp_icd9	Cancer	Other
196.2	I1pp_icd9	Cancer	Other
196.5	I1pp_icd9	Cancer	Other
196.6	I1pp_icd9	Cancer	Other
197	I1pp_icd9	Cancer	Other
197.01	I1pp_icd9	Cancer	Other
197.2	I1pp_icd9	Cancer	Other
197.7	I1pp_icd9	Cancer	Other
198	I1pp_icd9	Cancer	Other
198.2	I1pp_icd9	Cancer	Other
198.3	I1pp_icd9	Cancer	Other
198.5	I1pp_icd9	Cancer	Other
198.81	I1pp_icd9	Cancer	Other
198.89	I1pp_icd9	Cancer	Other
199.1	I1pp_icd9	Cancer	Other
201.9	I1pp_icd9	Cancer	Other
202.1	I1pp_icd9	Cancer	Other

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202.8	I1pp_icd9	Cancer	Other
203	I1pp_icd9	Cancer	Other
203.1	I1pp_icd9	Cancer	Other
204.1	I1pp_icd9	Cancer	Other
204.11	I1pp_icd9	Cancer	Other
204.7		Not valid	
205.9	I1pp_icd9	Cancer	Other
207.9		Not valid	
208.91	I1pp_icd9	Cancer	Other
211.1	I1pp_icd9	Cancer	Other
211.3	I1pp_icd9	Cancer	Other
212	I1pp_icd9	Cancer	Other
214.1	I1pp_icd9	Cancer	Other
215.2	I1pp_icd9	Cancer	Other
215.95	I1pp_icd9	Cancer	Other
222.2	I1pp_icd9	Cancer	Other
223	I1pp_icd9	Cancer	Other
224.5	I1pp_icd9	Cancer	Other
225	I1pp_icd9	Cancer	Other
225.2	I1pp_icd9	Cancer	Other
227	I1pp_icd9	Cancer	Other
227.3	I1pp_icd9	Cancer	Other
228.87		Not valid	Other
231.2	I1pp_icd9	Cancer	Other
232	I1pp_icd9	Cancer	Other
232.9	I1pp_icd9	Cancer	Other
233	I1pp_icd9	Cancer	Other
233.4	I1pp_icd9	Cancer	Other
235.4	I1pp_icd9	Cancer	Other
236.5	I1pp_icd9	Cancer	Other
236.9	I1pp_icd9	Cancer	Other
237.5	I1pp_icd9	Cancer	Other
237.7	I1pp_icd9	Cancer	Other
238.4	I1pp_icd9	Cancer	Other
238.7	I1pp_icd9	Cancer	Other
238.75	I1pp_icd9	Cancer	Other
239	I1pp_icd9	Cancer	Other
239.1	I1pp_icd9	Cancer	Other
239.2	I1pp_icd9	Cancer	Other
239.4	I1pp_icd9	Cancer	Other
239.5	I1pp_icd9	Cancer	Other
239.6	I1pp_icd9	Cancer	Other
239.7	I1pp_icd9	Cancer	Other
239.8	I1pp_icd9	Cancer	Other
240.9		Endocrine disorder	Endocrine/Metabolic/Nutritional
241		Endocrine disorder	Endocrine/Metabolic/Nutritional
242		Endocrine disorder	Endocrine/Metabolic/Nutritional
242.3		Endocrine disorder	Endocrine/Metabolic/Nutritional
242.9	I1b_icd9	Hyperthyroidism	Endocrine/Metabolic/Nutritional
243	I1c_icd9	Hypothyroidism	Endocrine/Metabolic/Nutritional
244.9	I1c_icd9	Hypothyroidism	Endocrine/Metabolic/Nutritional
245.9		Endocrine disorder	Endocrine/Metabolic/Nutritional
250	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.01	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.02	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.03	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional

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250.1	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.12	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.4	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.5	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.52	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.6	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.61	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.62	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.7	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.72	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.8	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.81	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
250.9	I1a_icd9	Diabetes melitus	Endocrine/Metabolic/Nutritional
251.2		Endocrine disorder	Endocrine/Metabolic/Nutritional
251.8		Endocrine disorder	Endocrine/Metabolic/Nutritional
252		Endocrine disorder	Endocrine/Metabolic/Nutritional
252.01		Endocrine disorder	Endocrine/Metabolic/Nutritional
252.8		Endocrine disorder	Endocrine/Metabolic/Nutritional
253.2		Endocrine disorder	Endocrine/Metabolic/Nutritional
253.5		Endocrine disorder	Endocrine/Metabolic/Nutritional
253.6		Endocrine disorder	Endocrine/Metabolic/Nutritional
255.4		Endocrine disorder	Endocrine/Metabolic/Nutritional
255.41		Endocrine disorder	Endocrine/Metabolic/Nutritional
256.4		Endocrine disorder	Endocrine/Metabolic/Nutritional
257.2		Testicular dysfunction	Endocrine/Metabolic/Nutritional
263		Malnutrition	Endocrine/Metabolic/Nutritional
263.1		Malnutrition	Endocrine/Metabolic/Nutritional
263.9		Malnutrition	Endocrine/Metabolic/Nutritional
264		Vitamin deficiency	Endocrine/Metabolic/Nutritional
265.1		Vitamin deficiency	Endocrine/Metabolic/Nutritional
265.9		Vitamin deficiency	Endocrine/Metabolic/Nutritional
266.2		Vitamin deficiency	Endocrine/Metabolic/Nutritional
266.21		Vitamin deficiency	Endocrine/Metabolic/Nutritional
266.9		Vitamin deficiency	Endocrine/Metabolic/Nutritional
268.2		Vitamin deficiency	Endocrine/Metabolic/Nutritional
268.9		Vitamin deficiency	Endocrine/Metabolic/Nutritional
269.2		Vitamin deficiency	Endocrine/Metabolic/Nutritional
269.8		Nutritional deficiency	Endocrine/Metabolic/Nutritional
269.9		Nutritional deficiency	Endocrine/Metabolic/Nutritional
270.2		Metabolism disorder	Endocrine/Metabolic/Nutritional
270.4		Metabolism disorder	Endocrine/Metabolic/Nutritional
271.03		Metabolism disorder	Endocrine/Metabolic/Nutritional
271.1		Metabolism disorder	Endocrine/Metabolic/Nutritional
271.3		Metabolism disorder	Endocrine/Metabolic/Nutritional
272	I1_hyplip_icd9	Hyperlipidemia	Endocrine/Metabolic/Nutritional
272.01		Metabolism disorder	Endocrine/Metabolic/Nutritional
272.04		Metabolism disorder	Endocrine/Metabolic/Nutritional
272.1	I1_hyplip_icd9	Hyperlipidemia	Endocrine/Metabolic/Nutritional
272.2	I1_hyplip_icd9	Hyperlipidemia	Endocrine/Metabolic/Nutritional
272.34	I1_hyplip_icd9	Hyperlipidemia	Endocrine/Metabolic/Nutritional
272.4	I1_hyplip_icd9	Hyperlipidemia	Endocrine/Metabolic/Nutritional
272.44	I1_hyplip_icd9	Hyperlipidemia	Endocrine/Metabolic/Nutritional
272.7		Metabolism disorder	Endocrine/Metabolic/Nutritional
272.9		Metabolism disorder	Endocrine/Metabolic/Nutritional
273.8		Metabolism disorder	Endocrine/Metabolic/Nutritional
274	I1_gout_icd9	Gout	Endocrine/Metabolic/Nutritional

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274.4	I1_gout_icd9	Gout	
274.9	I1_gout_icd9	Gout	Endocrine/Metabolic/Nutritional
GOUT	I1_gout_icd9	Gout 274.9	Endocrine/Metabolic/Nutritional
275		Metabolism disorder	Endocrine/Metabolic/Nutritional
275.2		Metabolism disorder	Endocrine/Metabolic/Nutritional
275.3		Metabolism disorder	Endocrine/Metabolic/Nutritional
275.4		Metabolism disorder	Endocrine/Metabolic/Nutritional
275.41		Metabolism disorder	Endocrine/Metabolic/Nutritional
275.42		Metabolism disorder	Endocrine/Metabolic/Nutritional
275.49		Metabolism disorder	Endocrine/Metabolic/Nutritional
276		Electrolyte Imbalance	Endocrine/Metabolic/Nutritional
276.1		Electrolyte Imbalance	Endocrine/Metabolic/Nutritional
276.2		Electrolyte Imbalance	Endocrine/Metabolic/Nutritional
276.5	J1c_icd9	Dehydration	Problem Condition
276.51	J1c_icd9	Dehydration	Problem Condition
276.7		Electrolyte Imbalance	Endocrine/Metabolic/Nutritional
276.8		Electrolyte Imbalance	Endocrine/Metabolic/Nutritional
276.82		Electrolyte Imbalance	Endocrine/Metabolic/Nutritional
276.9		Electrolyte Imbalance	Endocrine/Metabolic/Nutritional
277.3		Metabolism disorder	Endocrine/Metabolic/Nutritional
277.4		Metabolism disorder	Endocrine/Metabolic/Nutritional
277.87		Metabolism disorder	Endocrine/Metabolic/Nutritional
277.9		Metabolism disorder	Endocrine/Metabolic/Nutritional
278		Obesity	Endocrine/Metabolic/Nutritional
278.01		Obesity	Endocrine/Metabolic/Nutritional
278.61		Metabolism disorder	Endocrine/Metabolic/Nutritional
278.8		Metabolism disorder	Endocrine/Metabolic/Nutritional
278.81		Metabolism disorder	Endocrine/Metabolic/Nutritional
279.3		Immunity disorder	Endocrine/Metabolic/Nutritional/Immunity
280	I1oo_icd9	Anemia	Other
280.1	I1oo_icd9	Anemia	Other
280.79		Invalid Code	Other
280.8	I1oo_icd9	Anemia	Other
280.9	I1oo_icd9	Anemia	Other
281	I1oo_icd9	Anemia	Other
281.1	I1oo_icd9	Anemia	Other
281.9	I1oo_icd9	Anemia	Other
283	I1oo_icd9	Anemia	Other
284.1		Blood disorder	Other
284.5	I1oo_icd9	Anemia	Other
284.8	I1oo_icd9	Anemia	Other
285	I1oo_icd9	Anemia	Other
285.1	I1oo_icd9	Anemia	Other
285.21	I1oo_icd9	Anemia	Other
285.29	I1oo_icd9	Anemia	Other
285.9	I1oo_icd9	Anemia	Other
285.99	I1oo_icd9	Anemia	Other
286		Blood disorder	Other
286.09		Blood disorder	Other
286.3		Blood disorder	Other
286.5		Blood disorder	Other
286.85		Blood disorder	Other
286.9		Blood disorder	Other
287.05		Blood disorder	Other
287.1		Blood disorder	Other
287.3		Blood disorder	Other

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287.5		Blood disorder	Other
288		Blood disorder	Other
288.3		Blood disorder	Other
288.6		Blood disorder	Other
288.8		Blood disorder	Other
288.9		Blood disorder	Other
289.89		Blood disorder	Other
289.9		Blood disorder	Other
290	I1u_icd9	Dementia	Neurological
290.1	I1u_icd9	Dementia	Neurological
290.12	I1u_icd9	Dementia	Neurological
290.13	I1u_icd9	Dementia	Neurological
290.2	I1u_icd9	Dementia	Neurological
290.21	I1u_icd9	Dementia	Neurological
290.3	I1u_icd9	Dementia	Neurological
290.4	I1u_icd9	Dementia	Neurological
290.41	I1u_icd9	Dementia	Neurological
290.42	I1u_icd9	Dementia	Neurological
290.43	I1u_icd9	Dementia	Neurological
290.8	I1_psych_icd9	Psychoses	Psychiatric/Mood
290.9	I1_psych_icd9	Psychoses	Psychiatric/Mood
291.1		Mental disorder	Psychiatric/Mood
291.2		Mental disorder	Psychiatric/Mood
291.5	I1_psych_icd9	Psychoses	Psychiatric/Mood
291.81		Mental disorder	Psychiatric/Mood
291.9		Mental disorder	Psychiatric/Mood
292.11	I1_psych_icd9	Psychoses	Psychiatric/Mood
292.8		Mental disorder	Psychiatric/Mood
292.82		Mental disorder	Psychiatric/Mood
292.9		Mental disorder	Psychiatric/Mood
293		Mental disorder	Psychiatric/Mood
293.81		Mental disorder	Psychiatric/Mood
293.82	I1_psych_icd9	Psychoses	Psychiatric/Mood
293.83	I1_psych_icd9	Psychoses	Psychiatric/Mood
293.84	I1_psych_icd9	Psychoses	Psychiatric/Mood
293.89	I1_psych_icd9	Psychoses	Psychiatric/Mood
293.9	I1_psych_icd9	Psychoses	Psychiatric/Mood
294	I1u_icd9	Dementia	Neurological
294.1	I1u_icd9	Dementia	Neurological
294.11	I1u_icd9	Dementia	Neurological
294.115	I1u_icd9	Dementia	Neurological
294.8		Mental disorder	Psychiatric/Mood
294.9		Mental disorder	Psychiatric/Mood
295	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.04	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.1	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.3	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.32	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.4	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.5	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.64	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.7	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.72	I1gg_icd9	Schizophrenia	Psychiatric/Mood
295.9	I1gg_icd9	Schizophrenia	Psychiatric/Mood
296	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.2	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood

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296.23	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.3	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.31	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.32	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.34	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.44	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.6	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.7	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.8	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.82	I1ff_icd9	Major Depression/Bipolar	Psychiatric/Mood
296.9	I1_psych_icd9	Psychoses	Psychiatric/Mood
296.99		Mood Disorder	Psychiatric/Mood
297	J1e_icd9	Delusions	Problem Condition
297.1	J1e_icd9	Delusions	Problem Condition
297.11	J1e_icd9	Delusions	Problem Condition
297.9	I1_psych_icd9	Psychoses	Psychiatric/Mood
298	I1_psych_icd9	Psychoses	Psychiatric/Mood
298.3	I1_psych_icd9	Psychoses	Psychiatric/Mood
298.39	I1_psych_icd9	Psychoses	Psychiatric/Mood
298.8	I1_psych_icd9	Psychoses	Psychiatric/Mood
298.9	I1_psych_icd9	Psychoses	Psychiatric/Mood
299	I1_psych_icd9	Psychoses	Psychiatric/Mood
299.4		Not valid	
300	I1dd_icd9	Anxiety disorder	Psychiatric/Mood
300.01	I1dd_icd9	Anxiety disorder	Psychiatric/Mood
300.02	I1dd_icd9	Anxiety disorder	Psychiatric/Mood
300.09	I1dd_icd9	Anxiety disorder	Psychiatric/Mood
300.11	I1dd_icd9	Hysterical Dizziness	Problem Condition
300.2	I1_neur_icd9	Neurotic disorder	Psychiatric/Mood
300.21	I1_neur_icd9	Neurotic disorder	Psychiatric/Mood
300.3	I1_neur_icd9	Neurotic disorder	Psychiatric/Mood
300.4	I1_neur_icd9	Neurotic disorder	Psychiatric/Mood
300.82	I1_neur_icd9	Neurotic disorder	Psychiatric/Mood
300.9	I1_neur_icd9	Neurotic disorder	Psychiatric/Mood
301		Personality disorder	Psychiatric/Mood
301.1		Personality disorder	Psychiatric/Mood
301.3		Personality disorder	Psychiatric/Mood
301.6		Personality disorder	Psychiatric/Mood
301.7		Personality disorder	Psychiatric/Mood
301.81		Personality disorder	Psychiatric/Mood
301.83		Personality disorder	Psychiatric/Mood
301.9		Personality disorder	Psychiatric/Mood
302.9		Sexual/Gender disorder	Psychiatric/Mood
303		Alcohol dependence	Psychiatric/Mood
303.9		Alcohol dependence	Psychiatric/Mood
303.91		Alcohol dependence	Psychiatric/Mood
304		Drug dependence	Psychiatric/Mood
304.01		Drug dependence	Psychiatric/Mood
304.02		Drug dependence	Psychiatric/Mood
304.6		Drug dependence	Psychiatric/Mood
304.83		Drug dependence	Psychiatric/Mood
304.9		Drug dependence	Psychiatric/Mood
305		Non depend drug abuse	Psychiatric/Mood
305.01		Non depend drug abuse	Psychiatric/Mood
305.1		Non depend drug abuse	Psychiatric/Mood
305.13		Non depend drug abuse	Psychiatric/Mood

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305.2		Non depend drug abuse	Psychiatric/Mood
305.5		Non depend drug abuse	Psychiatric/Mood
305.6		Non depend drug abuse	Psychiatric/Mood
305.7		Non depend drug abuse	Psychiatric/Mood
305.9		Non depend drug abuse	Psychiatric/Mood
307		Special symptoms or syndromes	Psychiatric/Mood
307.1		Eating disorders	Psychiatric Mood
307.23		Tics	Psychiatric/Mood
307.41		Sleep disorders	Psychiatric/Mood
307.42		Sleep disorders	Psychiatric /Mood
307.5		Eating disorders	Psychiatric/Mood
307.81		Special symptoms or syndromes	Psychiatric/Mood
307.9		Oth/unspe sympt/syndromes	Psychiatric/Mood
308.2		Acute reaction to stress	Psychiatric/Mood
309		Adjustment reactions	Psychiatric/Mood
309.1		Adjustment reactions	Psychiatric/Mood
309.28		Adjustment reactions	Psychiatric?Mood
309.3		Adjustment reactions	Psychiatric/Mood
309.4		Adjustment reactions	Psychiatric/Mood
309.81		Adjustment reactions	Psychiatric/Mood
309.9		Adjustment reactions	Psychiatric/Mood
310.1		Mental disorder	Psychiatric/Mood
310.3		Not valid	Psychiatric/Mood
310.9		Mental disorder	Psychiatric/Mood
311	l1ee_icd9	Depression	Psychiatric/Mood
311.4	l1ee_icd9	Depression	Psychiatric/Mood
312		Conduct disturbance	Psychiatric/Mood
312.3		Conduct disturbance	Psychiatric/Mood
312.34		Conduct disturbance	Psychiatric/Mood
312.39		Conduct disturbance	Psychiatric/Mood
312.9		Conduct disturbance	Psychiatric/Mood
314		Hyperkinitic syndrome	Psychiatric/Mood
315.31		Developmental delay	Psychiatric/Mood
315.9		Developmental delay	Psychiatric/Mood
317		Mental retardation	Psychiatric/Mood
318		Mental retardation	Psychiatric/Mood
318.1		Mental retardation	Psychiatric/Mood
318.2		Mental retardation	Psychiatric/Mood
318.3		Not valid	
319		Mental retardation	Psychiatric/Mood
319.01		Mental retardation	Psychiatric/Mood
319.45		Mental Retardation	
321		Disease central nervous system	Neurological
323.9		Disease central nervous system	Neurological
324		Disease central nervous system	Neurological
327.01		Sleep disorders	Psychiatric/Mood
327.23		Sleep disorders	Psychiatric/Mood
327.24		Sleep disorders	Psychiatric/Mood
331	l1q_icd9	Alzheimers	Neurological
331.11		Other cerebral degeneration	Neurological
331.19		Other cerebral degeneration	Neurological
331.4		Other cerebral degeneration	Neurological
331.7		Other cerebral degeneration	Neurological
331.82		Other cerebral degeneration	Neurological
331.89		Other cerebral degeneration	Neurological
331.9		Other cerebral degeneration	Neurological

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332	l1y_icd9	Parkinson's	Neurological
332.1	l1y_icd9	Parkinson's	Neurological
333		Abnormal movement disorder	Neurological
333.1		Abnormal movement disorder	Neurological
333.4	l1_hunt_icd9	Huntington's chorea	Neurological
333.82		Abnormal movement disorder	Neurological
333.9		Abnormal movement disorder	Neurological
333.94		Abnormal movement disorder	Neurological
333.99		Abnormal movement disorder	Neurological
334		Spinocerebral disease	Neurological
334.2		Spinocerebral disease	Neurological
334.3		Spinocerebral disease	Neurological
334.4		Spinocerebral disease	Neurological
334.9		Disease central nervous system	Neurological
335.2		Disease central nervous system	Neurological
336.8		Other diseases of spinal cord	Neurological
336.9		Unspec disease spinal cord	Neurological
337		Disorder autonomic nervous system	Neurological
337.1		Neuropathies	Neurological
337.3		Disorder autonomic nervous system	Neurological
337.9		Disorder autonomic nervous system	Neurological
338.11		Pain	Pain
338.19		Pain	Pain
338.29		Pain	Pain
338.4		Pain	Pain
340	l1w_icd9	Multiple Sclerosis	Neurological
342.02	l1v_icd9	Hemiplegia/Hemiparesis	Neurological
342.8	l1v_icd9	Hemiplegia/Hemiparesis	Neurological
342.81	l1v_icd9	Hemiplegia/Hemiparesis	Neurological
342.9	l1v_icd9	Hemiplegia/Hemiparesis	Neurological
342.91	l1v_icd9	Hemiplegia/Hemiparesis	Neurological
343.9	l1s_icd9	Cerebral Palsy	Neurological
344	l1z_icd9	Quadreplegia/quadraparesis	Neurological
344.01	l1z_icd9	Quadreplegia/quadreparesis	Neurological
344.046	l1z_icd9	Quadreplegia/quadreparesis	Neurological
344.09	l1z_icd9	Quadreplegia/quadreparesis	Neurological
344.1	l1x_icd9	Paraplegia	Neurological
344.2		Disease central nervous system	Neurological
344.3		Disease central nervous system	Neurological
344.6		Disease central nervous system	Neurological
344.61		Disease central nervous system	Neurological
344.89		Disease central nervous system	Neurological
344.9		Paralysis, unspec	Neurological
345.1		Epilepsy	Neurological
345.9		Epilepsy	Neurological
346		Migraine	Neurological
346.9		Migraine	Neurological
346.91		Migraine	Neurological
347		Disease central nervous system	Neurological
347.01		Disease central nervous system	Neurological
348		Disease central nervous system	Neurological
348.01		Disease central nervous system	Neurological
348.1		Disease central nervous system	Neurological
348.2		Disease central nervous system	Neurological
348.3		Disease central nervous system	Neurological
348.31		Disease central nervous system	Neurological

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
348.39		Disease central nervous system	Neurological
348.9		Disease central nervous system	Neurological
349.82		Disease central nervous system	Neurological
349.89		Disease central nervous system	Neurological
349.9		Disease central nervous system	Neurological
350.1		Disorder peripheral nervous system	Neurological
350.6		Not valid	
350.9		Disorder peripheral nervous system	Neurological
351		Disorder peripheral nervous system	Neurological
352.3		Disorder peripheral nervous system	Neurological
353.4		Disorder peripheral nervous system	Neurological
353.6		Disorder peripheral nervous system	Neurological
354		Disorder peripheral nervous system	Neurological
355.2		Disorder peripheral nervous system	Neurological
355.3		Disorder peripheral nervous system	Neurological
355.8		Disorder peripheral nervous system	Neurological
355.9		Disorder peripheral nervous system	Neurological
356		Neuropathies	Neurological
356.09		Neuropathies	Neurological
356.1		Neuropathies	Neurological
356.8		Neuropathies	Neurological
356.9		Neuropathies	Neurological
356.972		Neuropathies	
357		Neuropathies	Neurological
357.2		Neuropathies	Neurological
357.5		Neuropathies	Neurological
357.81		Neuropathies	Neurological
358		Myopathies	Neurological
359		Myopathies	Neurological
359.1		Myopathies	Neurological
361.4		Not valid	Sensory
362.01	I1kk_icd9	Diabetic retinopathy	Sensory
362.16		Disorder eye & adnexa	Sensory
362.5	I1mm_icd9	Macular degeneration	Sensory
362.6		Disorder eye & adnexa	Sensory
362.83		Disorder eye & adnexa	Sensory
363.2		Disorder eye & adnexa	Sensory
364		Disorder eye & adnexa	Sensory
364.3		Disorder eye & adnexa	Sensory
365.04	I1ll_icd9	Glaucoma	Sensory
365.1	I1ll_icd9	Glaucoma	Sensory
365.11	I1ll_icd9	Glaucoma	Sensory
365.9	I1ll_icd9	Glaucoma	Sensory
366.2	I1jj_icd9	Cataracts	Sensory
366.41	I1jj_icd9	Cataracts	Sensory
366.9	I1jj_icd9	Cataracts	Sensory
367		Disorder eye & adnexa	Sensory
367.1		Disorder eye & adnexa	Sensory
368.01		Disorder eye & adnexa	Sensory
368.1		Disorder eye & adnexa	Sensory
368.12		Disorder eye & adnexa	Sensory
368.15		Disorder eye & adnexa	Sensory
368.16		Disorder eye & adnexa	Sensory
368.2		Disorder eye & adnexa	Sensory
368.4		Disorder eye & adnexa	Sensory
368.46		Disorder eye & adnexa	Sensory

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
369		Blindness	Sensory
369.03		Blindness	Sensory
369.04		Blindness	Sensory
369.1		Blindness	Sensory
369.2		Blindness	Sensory
369.21		Blindness	Sensory
369.23		Blindness	Sensory
369.4		Blindness	Sensory
369.41		Blindness	Sensory
369.6		Blindness	Sensory
369.61		Blindness	Sensory
369.64		Blindness	Sensory
369.67		Blindness	Sensory
369.71		Blindness	Sensory
369.74		Blindness	Sensory
369.8		Blindness	Sensory
369.9		Blindness	Sensory
370		Disorder eye & adnexa	Sensory
370.9		Disorder eye & adnexa	Sensory
371.42		Disorder eye & adnexa	Sensory
371.89		Disorder eye & adnexa	Sensory
372.14	I2c_icd9	Conjunctivitis	I 2. Infections
372.2	I2c_icd9	Conjunctivitis	I 2. Infections
372.3	I2c_icd9	Conjunctivitis	I 2. Infections
372.39	I2c_icd9	Conjunctivitis	I 2. Infections
373		Disorder eye & adnexa	Sensory
374.03		Disorder eye & adnexa	Sensory
374.1		Disorder eye & adnexa	Sensory
374.3		Disorder eye & adnexa	Sensory
375.15		Disorder eye & adnexa	Sensory
376.32		Disorder eye & adnexa	Sensory
377.1		Disorder eye & adnexa	Sensory
377.3		Disorder eye & adnexa	Sensory
377.75		Disorder eye & adnexa	Sensory
378.52		Disorder eye & adnexa	Sensory
378.73		Disorder eye & adnexa	Sensory
378.9		Disorder eye & adnexa	Sensory
379.23		Disorder eye & adnexa	Sensory
379.31		Disorder eye & adnexa	Sensory
379.43		Disorder eye & adnexa	Sensory
379.9		Disorder eye & adnexa	Sensory
380.52		Disease ear & mastoid process	Sensory
380.79		Not valid	
382.2		Disorder ear & mastoid process	Sensory
382.9		Disorder ear & mastoid process	Sensory
383.9		Disorder ear & mastoid process	Sensory
384.2		Disorder ear & mastoid process	Sensory
384.9		Disorder ear & mastoid process	Sensory
385.9		Disorder ear & mastoid process	Sensory
386		Disorder ear & mastoid process	Sensory
386.11		Disorder ear & mastoid process	Sensory
386.2		Disorder ear & mastoid process	Sensory
386.3		Disorder ear & mastoid process	Sensory
387.2		Disorder ear & mastoid process	Sensory
388.01		Disorder ear & mastoid process	Sensory
388.02		Disorder ear & mastoid process	Sensory

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
388.7		Disorder ear & mastoid process	Sensory
389		Hearing loss	Sensory
389.1		Hearing loss	Sensory
389.12		Hearing loss	Sensory
389.14		Hearing loss	Sensory
389.15		Hearing loss	Sensory
389.7		Hearing loss	Sensory
389.8		Hearing loss	Sensory
389.9		Hearing loss	Sensory
393.9		Circulatory system disorders	Heart/Circulation
394		Circulatory system disorders	Heart/Circulation
395.2		Circulatory system disorders	Heart/Circulation
395.9		Circulatory system disorders	Heart/Circulation
396		Circulatory system disorders	Heart/Circulation
396.2		Circulatory system disorders	Heart/Circulation
396.3		Circulatory system disorders	Heart/Circulation
397		Circulatory system disorders	Heart/Circulation
398.9		Circulatory system disorders	Heart/Circulation
399		Not valid	
401	I1h_icd9	Hypertension	Heart/Circulation
401.1	I1h_icd9	Hypertension	Heart/Circulation
401.7		Not valid	
401.9	I1h_icd9	Hypertension	Heart/Circulation
401.99	I1h_icd9	Hypertension	Heart/Circulation
402.11	I1h_icd9	Hypertension	Heart/Circulation
402.8		Not valid	
402.9	I1h_icd9	Hypertension	
403.9	I1h_icd9	Hypertension	Heart/Circulation
403.91	I1h_icd9	Hypertension	Heart/Circulation
405.91	I1h_icd9	Hypertension	Heart/Circulation
405.99	I1h_icd9	Hypertension	Heart/Circulation
409.9		Not valid	
410		Circulatory system disorders	Heart/Circulation
410.01		Circulatory system disorders	Heart/Circulation
410.8		Circulatory system disorders	Heart/Circulation
410.9		Circulatory system disorders	Heart/Circulation
410.91		Circulatory system disorders	Heart/Circulation
410.915		Not valid	
410.92		Circulatory system disorders	Heart/Circulation
411		Circulatory system disorders	Heart/Circulation
411.1		Circulatory system disorders	Heart/Circulation
411.8		Circulatory system disorders	Heart/Circulation
411.89		Circulatory system disorders	Heart/Circulation
412		Circulatory system disorders	Heart/Circulation
413		Circulatory system disorders	Heart/Circulation
413.9		Circulatory system disorders	Heart/Circulation
414	I1d_icd9	ASHD	Heart/Circulation
414.001	I1d_icd9	ASHD	Heart/Circulation
414.01	I1d_icd9	ASHD	Heart/Circulation
414.05	I1d_icd9	ASHD	Heart/Circulation
414.8		Circulatory system disorders	Heart/Circulation
414.88		Circulatory system disorders	Heart/Circulation
414.9		Circulatory system disorders	Heart/Circulation
415.11		Circulatory system disorders	Heart/Circulation
415.19		Circulatory system disorders	Heart/Circulation
416		Circulatory system disorders	Heart/Circulation

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
416.8		Circulatory system disorders	Heart/Circulation
416.9		Circulatory system disorders	Heart/Circulation
419		Not valid	
421.1		Circulatory system disorders	Heart/Circulation
421.9		Circulatory system disorders	Heart/Circulation
422		Circulatory system disorders	Heart/Circulation
423.9		Circulatory system disorders	Heart/Circulation
424		Circulatory system disorders	Heart/Circulation
424.1		Circulatory system disorders	Heart/Circulation
424.9		Circulatory system disorders	Heart/Circulation
424.99		Circulatory system disorders	Heart/Circulation
425		Circulatory system disorders	Heart/Circulation
425.1		Circulatory system disorders	Heart/Circulation
425.4		Circulatory system disorders	Heart/Circulation
425.8		Circulatory system disorders	Heart/Circulation
426		Circulatory system disorders	Heart/Circulation
426.11		Circulatory system disorders	Heart/Circulation
426.3		Circulatory system disorders	Heart/Circulation
426.4		Circulatory system disorders	Heart/Circulation
426.5		Circulatory system disorders	Heart/Circulation
426.509		Circulatory system disorders	Heart/Circulation
427	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.1	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.21	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.3	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.31	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.32	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.5	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.69	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.81	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.84		Not valid	
427.89	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
427.9	I1e_icd9	Cardiac dysrhythmia	Heart/Circulation
428	I1f_icd9	CHF	Heart/Circulation
428.1	I1f_icd9	CHF	Heart/Circulation
428.2	I1f_icd9	CHF	Heart/Circulation
428.3	I1f_icd9	CHF	Heart/Circulation
428.31	I1f_icd9	CHF	Heart/Circulation
428.41	I1f_icd9	CHF	Heart/Circulation
428.9	I1f_icd9	CHF	Heart/Circulation
429		Circulatory system disorders	Heart/Circulation
429.03		Circulatory system disorders	Heart/Circulation
429.2	I1k_icd9	Other Cardiovascular disease	Heart/Circulation
429.3		Circulatory system disorders	Heart/Circulation
429.36		Circulatory system disorders	Heart/Circulation
429.9	I1k_icd9	Other Cardiovascular disease	Heart/Circulation
430		Cerebrovascular Disease	Neurological
431		Cerebrovascular Disease	Neurological
432.1		Cerebrovascular Disease	Neurological
432.9		Cerebrovascular Disease	Neurological
433		Circulatory system disorders	Heart/Circulation
433.1		Circulatory system disorders	Heart/Circulation
433.11		Circulatory system disorders	Heart/Circulation
433.3		Circulatory system disorders	Heart/Circulation
434	I1t_icd9	Stroke	Neurological
434.11	I1t_icd9	Stroke	Neurological

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434.9	I1t_icd9	Stroke	Neurological
434.91	I1t_icd9	Stroke	Neurological
435	I1bb_icd9	Transient Ischemic Attack	Neurological
435.3	I1bb_icd9	Transient Ischemic Attack	Neurological
435.9	I1bb_icd9	Transient Ischemic Attack	Neurological
436	I1t_icd9	Stroke	Neurological
437		Cerebrovascular Disease	Neurological
437.1		Cerebrovascular Disease	Neurological
437.2		Cerebrovascular Disease	Neurological
437.8		Cerebrovascular Disease	Neurological
437.9		Cerebrovascular Disease	Neurological
438		Late effects cerebrovascular disease	Neurological
438.11		Late effects cerebrovascular disease	Neurological
438.12		Late effects cerebrovascular disease	Neurological
438.2		Late effects cerebrovascular disease	Neurological
438.21		Late effects cerebrovascular disease	Neurological
438.22		Late effects cerebrovascular disease	Neurological
438.7		Late effects cerebrovascular disease	Neurological
438.82		Late effects cerebrovascular disease	Neurological
438.83		Late effects cerebrovascular disease	Neurological
438.84		Late effects cerebrovascular disease	Neurological
438.85		Late effects cerebrovascular disease	Neurological
438.89		Late effects cerebrovascular disease	Neurological
438.9		Late effects cerebrovascular disease	Neurological
440		Diseases areteries, arterioles/cap	Heart/Circulation
440.1		Diseases areteries, arterioles/cap	Heart/Circulation
440.2		Diseases areteries, arterioles/cap	Heart/Circulation
440.23		Diseases areteries, arterioles/cap	Heart/Circulation
440.9		Diseases areteries, arterioles/cap	Heart/Circulation
441		Diseases areteries, arterioles/cap	Heart/Circulation
441.01		Diseases areteries, arterioles/cap	Heart/Circulation
441.1		Diseases areteries, arterioles/cap	Heart/Circulation
441.2		Diseases areteries, arterioles/cap	Heart/Circulation
441.3		Diseases areteries, arterioles/cap	Heart/Circulation
441.4		Diseases areteries, arterioles/cap	Heart/Circulation
441.9		Diseases areteries, arterioles/cap	Heart/Circulation
442.81		Diseases areteries, arterioles/cap	Heart/Circulation
442.89		Diseases areteries, arterioles/cap	Heart/Circulation
443		Diseases areteries, arterioles/cap	Heart/Circulation
443.21		Diseases areteries, arterioles/cap	Heart/Circulation
443.81		Diseases areteries, arterioles/cap	Heart/Circulation
443.89		Diseases areteries, arterioles/cap	Heart/Circulation
443.9	I1j_icd9	Peripheral vascular disease	Heart/Circulation
444.1		Diseases areteries, arterioles/cap	Heart/Circulation
444.2		Diseases areteries, arterioles/cap	Heart/Circulation
444.22		Diseases areteries, arterioles/cap	Heart/Circulation
444.81		Diseases areteries, arterioles/cap	Heart/Circulation
446.4		Diseases areteries, arterioles/cap	Heart/Circulation
446.5		Diseases areteries, arterioles/cap	Heart/Circulation
447.2		Diseases areteries, arterioles/cap	Heart/Circulation
447.6		Diseases areteries, arterioles/cap	Heart/Circulation
447.8		Diseases areteries, arterioles/cap	Heart/Circulation
447.9		Diseases areteries, arterioles/cap	Heart/Circulation
451.1		Diseases veins/lymphs/circ sys	Heart/Circulation
451.19		Diseases veins/lymphs/circ sys	Heart/Circulation
451.2		Diseases veins/lymphs/circ sys	Heart/Circulation

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
451.9		Diseases veins/lymphs/circ sys	Heart/Circulation
453.4	I1g_icd9	Deep vein thrombosis	Heart/Circulation
453.8	I1g_icd9	Deep vein thrombosis	Heart/Circulation
453.9	I1g_icd9	Deep vein thrombosis	Heart/Circulation
454		Diseases veins/lymphs/circ sys	Heart/Circulation
454.1		Diseases veins/lymphs/circ sys	Heart/Circulation
454.9		Diseases veins/lymphs/circ sys	Heart/Circulation
455.3		Diseases veins/lymphs/circ sys	Heart/Circulation
455.4		Diseases veins/lymphs/circ sys	Heart/Circulation
455.5		Diseases veins/lymphs/circ sys	Heart/Circulation
455.6		Diseases veins/lymphs/circ sys	Heart/Circulation
455.9		Diseases veins/lymphs/circ sys	Heart/Circulation
456		Diseases veins/lymphs/circ sys	Heart/Circulation
456.1		Diseases veins/lymphs/circ sys	Heart/Circulation
456.2		Diseases veins/lymphs/circ sys	Heart/Circulation
457		Diseases veins/lymphs/circ sys	Heart/Circulation
457.1		Diseases veins/lymphs/circ sys	Heart/Circulation
457.14		Diseases veins/lymphs/circ sys	Heart/Circulation
457.3		Not valid	
458	I1i_icd9	Hypotension	Heart/Circulation
458.9	I1i_icd9	Hypotension	Heart/Circulation
459	J1j_icd9	Internal Bleeding	Problem Condition
459.2		Diseases veins/lymphs/circ sys	Heart/Circulation
459.81		Diseases veins/lymphs/circ sys	Heart/Circulation
459.89		Diseases veins/lymphs/circ sys	Heart/Circulation
459.9		Diseases veins/lymphs/circ sys	Heart/Circulation
461.21		Diseases resp system	Other
461.9		Diseases resp system	Other
462.2		Not valid	
465.9	I2f_icd9	Acute upper respiratory Infection	I 2. Infections
466		Diseases resp system	Other
471.09		Diseases resp system	Other
472		Diseases resp system	Other
472.9		Not valid	
473.9		Diseases resp system	Other
477		Diseases resp system	Other
477.8		Diseases resp system	Other
477.9		Diseases resp system	Other
478.1		Diseases resp system	Other
478.31		Diseases resp system	Other
480.03		Diseases resp system	Other
482.83	I2e_icd9	Pneumonia	I 2. Infections
483.7	I2e_icd9	Pneumonia	I 2. Infections
485.4		Not valid	
486	I2e_icd9	Pneumonia	I 2. Infections
487.1		Diseases resp system	Other
488.2		Not valid	
490		Brochitis	Pulmonary
491.2	I1ii_icd9	COPD & allied conditions	Pulmonary
491.21	I1ii_icd9	COPD & allied conditions	Pulmonary
491.9		Chronic bronchitis	Pulmonary
492.8		Emphysema	Pulmonary
493.06	I1hh_icd9	Asthma	Pulmonary
493.2	I1hh_icd9	Asthma	Pulmonary
493.9	I1hh_icd9	Asthma	Pulmonary
496	I1ii_icd9	COPD	Pulmonary

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501		Diseases resp system	Pulmonary
504		Diseases resp system	Pulmonary
507	I2e_icd9	Pneumonia due to external agent	I 2. Infections
510		Other Diseases resp system	Pulmonary
510.9		Other Diseases resp system	Pulmonary
511		Other Diseases resp system	Pulmonary
511.9		Other Diseases resp system	Pulmonary
512.8		Other Diseases resp system	Pulmonary
513.1		Other Diseases resp system	Pulmonary
513.82		Other Diseases resp system	Pulmonary
514		Other Diseases resp system	Pulmonary
514.2		Other Diseases resp system	Pulmonary
515	I1_pulm_icd9	Pulmonary fibrosis	Pulmonary
516.3		Other diseases resp system	Pulmonary
518		Other diseases lung	Pulmonary
518.01		Other diseases lung	Pulmonary
518.4	I1_resp_icd9	Respiratory failure	Pulmonary
518.81	I1_resp_icd9	Respiratory failure	Pulmonary
518.82		Other diseases resp system	Pulmonary
518.84	I1_resp_icd9	Respiratory failure	Pulmonary
518.89	I1_resp_icd9	Respiratory failure	Pulmonary
519.1		Other diseases resp system	Pulmonary
519.8	I2f_icd9	Respiratory Infection	I 2. Infections
519.9		Other diseases resp system	Pulmonary
520		Diseases oral cav/sal gland/jaws	Other
521.09		Diseases oral cav/sal gland/jaws	Other
523.9		Diseases oral cav/sal gland/jaws	Other
524.62		Diseases oral cav/sal gland/jaws	Other
526.1		Diseases oral cav/sal gland/jaws	Other
527.2		Diseases oral cav/sal gland/jaws	Other
528.9		Diseases oral cav/sal gland/jaws	Other
530		Diseases esophagus	Digestive
530.01		Diseases oesophagus	Digestive
530.1		Esophagitis	Digestive
530.11		Esophagitis	Digestive
530.12		Esophagitis	Digestive
530.19		Esophagitis	Digestive
530.2		Diseases esophagus	Digestive
530.3		Diseases esophagus	Digestive
530.5		Diseases esophagus	Digestive
530.8	I1_GERD_icd9	Gastroesophageal reflex disease (GERD)	Digestive
530.81	I1_GERD_icd9	Gastroesophageal reflex disease (GERD)	Digestive
530.817	I1_GERD_icd9	Gastroesophageal reflex disease (GERD)	Digestive
530.85		Diseases esophagus	Digestive
530.89		Diseases esophagus	Digestive
530.91		Diseases esophagus	Digestive
531		Ulcers	Digestive
531.1		Ulcers	Digestive
531.3		Ulcers	Digestive
531.4		Ulcers	Digestive
531.81		Not valid	
531.9		Ulcers	Digestive
532		Ulcers	Digestive
532.9		Ulcers	Digestive
533		Ulcers	Digestive
533.1		Ulcers	Digestive

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533.3		Ulcers	Digestive
533.7		Ulcers	Digestive
533.9		Ulcers	Digestive
535	J1_gast_icd9	Acute Gastritis	Digestive
535.01	J1_gast_icd9	Gastritis	Digestive
535.1	J1_gast_icd9	Gastritis	Digestive
535.3	J1_gast_icd9	Gastritis	Digestive
535.4	J1_gast_icd9	Gastritis	Digestive
535.41	J1_gast_icd9	Gastritis	Digestive
535.5	J1_gast_icd9	Gastritis	Digestive
535.51	J1_gast_icd9	Gastritis	Digestive
535.6		Stomach disorders	Digestive
536.3		Stomach disorders	Digestive
536.4		Stomach disorders	Digestive
536.8		Stomach disorders	Digestive
536.81		Stomach disorders	Digestive
536.9		Stomach disorders	Digestive
537.1		Other disorders stom/duod	Digestive
537.89		Other disorders stom/duod	Digestive
537.9		Other disorders stom/duod	Digestive
540		Appendicitis	Digestive
543.9		Other diseases appendix	Digestive
550.9		Hernias	Digestive
550.91		Hernias	Digestive
552.29		Hernias	Digestive
552.8		Hernias	Digestive
553		Hernias	Digestive
553.1		Hernias	Digestive
553.2		Hernias	Digestive
553.3		Hernias	Digestive
553.8		Hernias	Digestive
553.9		Hernias	Digestive
555.9		Noninfec enteritis/colitis	Digestive
556.9		Noninfec enteritis/colitis	Digestive
557		Intestinal disorders	Digestive
557.1		Intestinal disorders	Digestive
557.9		Intestinal disorders	Digestive
558.3		Noninfec enteritis/colitis	Digestive
558.9		Intestinal disorders	Digestive
559		Not valid	
560.1		Other diseases intestines/peritoneum	Digestive
560.2		Other diseases intestines/peritoneum	Digestive
560.21		Other diseases intestines/peritoneum	Digestive
560.81		Other diseases intestines/peritoneum	Digestive
560.9		Other diseases intestines/peritoneum	Digestive
562		Other diseases intestines/peritoneum	Digestive
562.1		Other diseases intestines/peritoneum	Digestive
562.11		Other diseases intestines/peritoneum	Digestive
562.12		Other diseases intestines/peritoneum	Digestive
564	J1_digest_icd9	Functional digestive disorders	Digestive
564.09	J1_digest_icd9	Constipation	Digestive
564.1	J1_IBS_icd9	Irritable bowel syndrome(IBS)	Digestive
564.6		Other diseases intestines/peritoneum	Digestive
564.7		Other diseases intestines/peritoneum	Digestive
564.81		Other diseases intestines/peritoneum	Digestive
564.89		Other diseases intestines/peritoneum	Digestive

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564.9		Other diseases intestines/peritoneum	Digestive
565.1		Other diseases intestines/peritoneum	Digestive
567.22		Other diseases intestines/peritoneum	Digestive
567.38		Other diseases intestines/peritoneum	Digestive
567.9		Other diseases intestines/peritoneum	Digestive
568		Other diseases intestines/peritoneum	Digestive
568.89		Other diseases intestines/peritoneum	Digestive
569.1		Other diseases intestines/peritoneum	Digestive
569.2		Other diseases intestines/peritoneum	Digestive
569.3		Other diseases intestines/peritoneum	Digestive
569.4		Other diseases intestines/peritoneum	Digestive
569.42		Other diseases intestines/peritoneum	Digestive
569.69		Other diseases intestines/peritoneum	Digestive
569.81		Other diseases intestines/peritoneum	Digestive
569.83		Other diseases intestines/peritoneum	Digestive
569.9		Other diseases intestines/peritoneum	Digestive
571.1		Other diseases digestive system	Digestive
571.2		Other diseases digestive system	Digestive
571.4		Other diseases digestive system	Digestive
571.5		Other diseases digestive system	Digestive
571.8		Other diseases digestive system	Digestive
571.9		Other diseases digestive system	Digestive
572.2		Other diseases digestive system	Digestive
572.3		Other diseases digestive system	Digestive
573.3		Other diseases digestive system	Digestive
573.8		Other diseases digestive system	Digestive
573.9		Other diseases digestive system	Digestive
574		Other diseases digestive system	Digestive
574.1		Other diseases digestive system	Digestive
574.2		Other diseases digestive system	Digestive
574.5		Other diseases digestive system	Digestive
575		Other diseases digestive system	Digestive
575.1		Other diseases digestive system	Digestive
576.8		Other diseases digestive system	Digestive
576.81		Other diseases digestive system	Digestive
577		Pancreatitis	Digestive
577.1		Pancreatitis	Digestive
577.2		Other diseases digestive system	Digestive
577.8		Other diseases digestive system	Digestive
578.1		GI hemorrhage	Digestive
578.81		Not valid	Digestive
578.89		Not valid	Digestive
578.9		GI hemorrhage	Digestive
578.92		GI hemorrhage	Digestive
579.3		Other diseases digestive system	Digestive
579.8		Other diseases digestive system	Digestive
579.9		Other diseases digestive system	Digestive
580.51		Not valid	
580.81		Nephritis, nephrotic syndrome & nephrosis	Genitourinary
581.18		Nephritis, nephrotic syndrome & nephrosis	Genitourinary
582.9		Nephritis, nephrotic syndrome & nephrosis	Genitourinary
583.81		Nephritis, nephrotic syndrome & nephrosis	Genitourinary
583.9		Nephritis, nephrotic syndrome & nephrosis	Genitourinary
584.8	I1qq_icd9	Renal failure	Other
584.9	I1qq_icd9	Renal failure	Other
585	I1qq_icd9	Renal failure	Other

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
585.1	I1qq_icd9	Renal failure	Other
585.2	I1qq_icd9	Renal failure	Other
585.3	I1qq_icd9	Renal failure	Other
585.4	I1qq_icd9	Renal failure	Other
585.5	I1qq_icd9	Renal failure	Other
585.6	I1qq_icd9	Renal failure	Other
585.9	I1qq_icd9	Renal failure	Other
586	I1qq_icd9	Renal failure	Other
588.8		Nephritis, nephrotic syndrome & nephrosis	Genitourinary
588.89		Nephritis, nephrotic syndrome & nephrosis	Genitourinary
588.9		Nephritis, nephrotic syndrome & nephrosis	Genitourinary
590		Other diseases urinary system	Genitourinary
590.8		Other diseases urinary system	Genitourinary
591		Hydronephrosis	Genitourinary
592		Calculus ureter	Genitourinary
593.09		Other diseases urinary system	Genitourinary
593.2		Diseases genitourinary system	Genitourinary
593.9		Renal insufficiency	Genitourinary
594.1		Other diseases urinary system	Genitourinary
595.1		Other diseases urinary system	Genitourinary
595.2		Other diseases urinary system	Genitourinary
595.9		Other diseases urinary system	Genitourinary
596		Bladder disorders	Genitourinary
596.4		Bladder disorders	Genitourinary
596.5		Bladder disorders	Genitourinary
596.51		Bladder disorders	Genitourinary
596.54	J1_neurbladder_icd9	Neurogenic bladder	Genitourinary
596.59		Bladder disorders	Genitourinary
596.8		Bladder disorders	Genitourinary
596.9		Bladder disorders	Genitourinary
597.9		Not valid	Genitourinary
598		Diseases genitourinary system	Genitourinary
598.09		Not valid	
598.9		Other diseases urinary system	Genitourinary
599	I2j_icd9	Urinary tract infection	I 2. Infections
599.6		Other diseases urinary system	Genitourinary
599.7		Other diseases urinary system	Genitourinary
599.9		Not valid	
600	J1_prostate_icd9	Benign prostate	Genitourinary
600.01	J1_prostate_icd9	Benign prostate	Genitourinary
600.2		Prostate disorders	Genitourinary
600.66		Not valid	Genitourinary
600.9		Prostate disorders	Genitourinary
600.91		Prostate disorders	Genitourinary
601		Prostate disorders	Genitourinary
601.9		Prostate disorders	Genitourinary
602.8		Prostate disorders	Genitourinary
602.9		Prostate disorders	Genitourinary
603.9		Diseases male genital organs	Genitourinary
604.9		Diseases male genital organs	Genitourinary
608.4		Diseases male genital organs	Genitourinary
611.72		Disorders breast	Other
616.1		Inflammatory disease female pelvic organs	Other
618		Inflammatory disease female pelvic organs	Other
618.02		Inflammatory disease female pelvic organs	Other
618.1		Inflammatory disease female pelvic organs	Other

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
618.3		Inflammatory disease female pelvic organs	Other
618.4		Inflammatory disease female pelvic organs	Other
618.9		Inflammatory disease female pelvic organs	Other
619.1		Inflammatory disease female pelvic organs	Other
620.2		Inflammatory disease female pelvic organs	Other
623.8		Inflammatory disease female pelvic organs	Other
625.3		Inflammatory disease female pelvic organs	Other
625.6		Inflammatory disease female pelvic organs	Other
626.6		Inflammatory disease female pelvic organs	Other
627.2		Inflammatory disease female pelvic organs	Other
627.3		Inflammatory disease female pelvic organs	Other
627.9		Inflammatory disease female pelvic organs	Other
633.9		Compl preg/childbirth/puerperium	Other
645.1		Compl preg/childbirth/puerperium	Other
680.6		Skin & subcu tissue disorders	Skin Conditions
680.9		Skin & subcu tissue disorders	Skin Conditions
681.1	I1_cellulitis_icd9	Cellulitis	Skin Conditions
681.11	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682.2	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682.3	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682.4	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682.5	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682.6	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682.7	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682.8	I1_cellulitis_icd9	Cellulitis	Skin Conditions
682.9	I1_cellulitis_icd9	Cellulitis	Skin Conditions
CELLULI	I1_cellulitis_icd9	Cellulitis 681-682.9	Skin conditions
686.01		Skin & subcu tissue disorders	Skin Conditions
686.9		Skin & subcu tissue disorders	Skin Conditions
690.1		Skin & subcu tissue disorders	Skin Conditions
690.107		Skin & subcu tissue disorders	Skin Conditions
690.18		Skin & subcu tissue disorders	Skin Conditions
691.8		Skin & subcu tissue disorders	Skin Conditions
692.9		Skin & subcu tissue disorders	Skin Conditions
693		Skin & subcu tissue disorders	Skin Conditions
693.1		Skin & subcu tissue disorders	Skin Conditions
694.5		Skin & subcu tissue disorders	Skin Conditions
695.3		Skin & subcu tissue disorders	Skin Conditions
695.4		Skin & subcu tissue disorders	Skin Conditions
695.89		Skin & subcu tissue disorders	Skin Conditions
696		Skin & subcu tissue disorders	Skin Conditions
696.1		Skin & subcu tissue disorders	Skin Conditions
696.8		Skin & subcu tissue disorders	Skin Conditions
698.2		Skin & subcu tissue disorders	Skin Conditions
698.4		Skin & subcu tissue disorders	Skin Conditions
698.9		Skin & subcu tissue disorders	Skin Conditions
700		Skin & subcu tissue disorders	Skin Conditions
700.52		Skin & subcu tissue disorders	Skin Conditions
701.1		Skin & subcu tissue disorders	Skin Conditions
702		Skin & subcu tissue disorders	Skin Conditions
702.19		Skin & subcu tissue disorders	Skin Conditions
703		Skin & subcu tissue disorders	Skin Conditions
704		Skin & subcu tissue disorders	Skin Conditions
704.8		Skin & subcu tissue disorders	Skin Conditions
705.83		Skin & subcu tissue disorders	Skin Conditions

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
706.1		Skin & subcu tissue disorders	Skin Conditions
706.3		Skin & subcu tissue disorders	Skin Conditions
707		Skin & subcu tissue disorders	Skin Conditions
707.02		Decubitus Ulcer	Skin Conditions
707.03		Decubitus Ulcer	Skin Conditions
707.04		Decubitus Ulcer	Skin Conditions
707.05		Decubitus Ulcer	Skin Conditions
707.07		Decubitus Ulcer	Skin Conditions
707.09		Decubitus Ulcer	Skin Conditions
707.1		Ulcer except decubitus	Skin Conditions
707.11		Ulcer except decubitus	Skin Conditions
707.12		Ulcer except decubitus	Skin Conditions
707.13		Ulcer except decubitus	Skin Conditions
707.14		Ulcer except decubitus	Skin Conditions
707.15		Ulcer except decubitus	Skin Conditions
707.67		Not valid	
707.8		Skin & subcu tissue disorders	Skin Conditions
707.9		Skin & subcu tissue disorders	Skin Conditions
708.3		Skin & subcu tissue disorders	Skin Conditions
708.9		Skin & subcu tissue disorders	Skin Conditions
709.01		Skin & subcu tissue disorders	Skin Conditions
709.1		Skin & subcu tissue disorders	Skin Conditions
709.3		Skin & subcu tissue disorders	Skin Conditions
709.8		Skin & subcu tissue disorders	Skin Conditions
709.9		Skin & subcu tissue disorders	Skin Conditions
710		Disorders musculoskeletal/connective tissue	Musculoskeletal
710.1		Disorders musculoskeletal/connective tissue	Musculoskeletal
711.05		Disorders musculoskeletal/connective tissue	Musculoskeletal
711.84		Disorders musculoskeletal/connective tissue	Musculoskeletal
711.9		Disorders musculoskeletal/connective tissue	Musculoskeletal
711.95		Disorders musculoskeletal/connective tissue	Musculoskeletal
712.3		Disorders musculoskeletal/connective tissue	Musculoskeletal
712.38		Disorders musculoskeletal/connective tissue	Musculoskeletal
712.87		Disorders musculoskeletal/connective tissue	Musculoskeletal
713		Disorders musculoskeletal/connective tissue	Musculoskeletal
713.5		Disorders musculoskeletal/connective tissue	Musculoskeletal
714	I1l_icd9	Rheumatoid Arthritis and other inflammatory polyarthropathies	Musculoskeletal
714.89	I1l_icd9	Rheumatoid Arthritis and other inflammatory polyarthropathies	Musculoskeletal
714.9	I1l_icd9	Rheumatoid Arthritis and other inflammatory polyarthropathies	Musculoskeletal
715	I1o_icd9	Osteoarthritis	Musculoskeletal
715.04	I1o_icd9	Osteoarthritis	Musculoskeletal
715.08	I1o_icd9	Osteoarthritis	Musculoskeletal
715.09	I1o_icd9	Osteoarthritis	Musculoskeletal
715.16	I1o_icd9	Osteoarthritis	Musculoskeletal
715.19	I1o_icd9	Osteoarthritis	Musculoskeletal
715.29	I1o_icd9	Osteoarthritis	Musculoskeletal
715.36	I1o_icd9	Osteoarthritis	Musculoskeletal
715.8	I1o_icd9	Osteoarthritis	Musculoskeletal
715.88	I1o_icd9	Osteoarthritis	Musculoskeletal
715.89	I1o_icd9	Osteoarthritis	Musculoskeletal
715.9	I1o_icd9	Osteoarthritis	Musculoskeletal
715.91	I1o_icd9	Osteoarthritis	Musculoskeletal
715.93	I1o_icd9	Osteoarthritis	Musculoskeletal
715.94	I1o_icd9	Osteoarthritis	Musculoskeletal

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715.95	I1o_icd9	Osteoarthritis	Musculoskeletal
715.96	I1o_icd9	Osteoarthritis	Musculoskeletal
715.97	I1o_icd9	Osteoarthritis	Musculoskeletal
715.98	I1o_icd9	Osteoarthritis	Musculoskeletal
716.8	I1o_icd9	Osteoarthritis	Musculoskeletal
716.89	I1l_icd9	Arthritis	Musculoskeletal
716.9	I1l_icd9	Arthritis	Musculoskeletal
716.95	I1l_icd9	Arthritis	Musculoskeletal
716.96	I1l_icd9	Arthritis	Musculoskeletal
716.98	I1l_icd9	Arthritis	Musculoskeletal
716.99	I1l_icd9	Arthritis	Musculoskeletal
718.2		Joint disorders	Musculoskeletal
718.31		Joint disorders	Musculoskeletal
718.4		Joint disorders	Musculoskeletal
718.42		Joint disorders	Musculoskeletal
718.44		Joint disorders	Musculoskeletal
718.45		Joint disorders	Musculoskeletal
718.46		Joint disorders	Musculoskeletal
718.47		Joint disorders	Musculoskeletal
718.48		Joint disorders	Musculoskeletal
718.49		Joint disorders	Musculoskeletal
718.51		Joint disorders	Musculoskeletal
718.55		Joint disorders	Musculoskeletal
718.81		Joint disorders	Musculoskeletal
718.85		Joint disorders	Musculoskeletal
718.86		Joint disorders	Musculoskeletal
719.07		Joint disorders	Musculoskeletal
719.1		Joint disorders	Musculoskeletal
719.2		Joint disorders	Musculoskeletal
719.4		Joint disorders	Musculoskeletal
719.41		Joint disorders	Musculoskeletal
719.45		Joint disorders	Musculoskeletal
719.46		Joint disorders	Musculoskeletal
719.47		Joint disorders	Musculoskeletal
719.48		Joint disorders	Musculoskeletal
719.49		Joint disorders	Musculoskeletal
719.59		Joint disorders	Musculoskeletal
719.7		Joint disorders	Musculoskeletal
719.89		Joint disorders	Musculoskeletal
719.9		Joint disorders	Musculoskeletal
719.95		Joint disorders	Musculoskeletal
719.96		Joint disorders	Musculoskeletal
720		Joint disorders	Musculoskeletal
720.9		Joint disorders	Musculoskeletal
721		Back disorders	Musculoskeletal
721.1		Back disorders	Musculoskeletal
721.3		Back disorders	Musculoskeletal
721.41		Back disorders	Musculoskeletal
721.9		Back disorders	Musculoskeletal
722.1		Back disorders	Musculoskeletal
722.2		Back disorders	Musculoskeletal
722.4		Back disorders	Musculoskeletal
722.52		Back disorders	Musculoskeletal
722.6		Back disorders	Musculoskeletal
722.71		Back disorders	Musculoskeletal
722.9		Back disorders	Musculoskeletal

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
722.93		Back disorders	Musculoskeletal
723		Back disorders	Musculoskeletal
723.1		Back disorders	Musculoskeletal
723.5		Back disorders	Musculoskeletal
724		Back disorders	Musculoskeletal
724.02		Back disorders	Musculoskeletal
724.09		Back disorders	Musculoskeletal
724.1		Back disorders	Musculoskeletal
724.2		Back disorders	Musculoskeletal
724.3		Back disorders	Musculoskeletal
724.4		Back disorders	Musculoskeletal
724.5		Back disorders	Musculoskeletal
724.8		Back disorders	Musculoskeletal
724.9		Back disorders	Musculoskeletal
725		Rheumatism, excluding back	Musculoskeletal
726		Peripheral enthesopathies	Musculoskeletal
726.1		Peripheral enthesopathies	Musculoskeletal
726.11		Peripheral enthesopathies	Musculoskeletal
726.2		Peripheral enthesopathies	Musculoskeletal
726.33		Peripheral enthesopathies	Musculoskeletal
726.5		Peripheral enthesopathies	Musculoskeletal
726.71		Peripheral enthesopathies	Musculoskeletal
726.91		Peripheral enthesopathies	Musculoskeletal
727.1		Disorder synovium, tendon, bursa	Musculoskeletal
727.3		Disorder synovium, tendon, bursa	Musculoskeletal
727.31		Disorder synovium, tendon, bursa	Musculoskeletal
727.4		Disorder synovium, tendon, bursa	Musculoskeletal
727.51		Disorder synovium, tendon, bursa	Musculoskeletal
727.61		Disorder synovium, tendon, bursa	Musculoskeletal
728.2		Disorder muscle, ligamnet, fascia	Musculoskeletal
728.3		Disorder muscle, ligamnet, fascia	Musculoskeletal
728.6		Disorder muscle, ligamnet, fascia	Musculoskeletal
728.85		Disorder muscle, ligamnet, fascia	Musculoskeletal
728.86		Disorder muscle, ligamnet, fascia	Musculoskeletal
728.87		Muscle weakness	Musculoskeletal
728.88		Disorder muscle, ligamnet, fascia	Musculoskeletal
728.89		Disorder muscle, ligamnet, fascia	Musculoskeletal
728.9		Disorder muscle, ligamnet, fascia	Musculoskeletal
729		Soft tissue disorders	Musculoskeletal
729.1		Soft tissue disorders	Musculoskeletal
729.2		Soft tissue disorders	Musculoskeletal
729.39		Soft tissue disorders	Musculoskeletal
729.4		Soft tissue disorders	Musculoskeletal
729.5		Soft tissue disorders	Musculoskeletal
729.81		Soft tissue disorders	Musculoskeletal
729.82		Soft tissue disorders	Musculoskeletal
729.89		Soft tissue disorders	Musculoskeletal
729.9		Soft tissue disorders	Musculoskeletal
730		Osteo/Chondro/acq musc def	Musculoskeletal
730.07		Osteo/Chondro/acq musc def	Musculoskeletal
730.1		Osteo/Chondro/acq musc def	Musculoskeletal
730.15		Osteo/Chondro/acq musc def	Musculoskeletal
730.2		Osteo/Chondro/acq musc def	Musculoskeletal
730.26		Osteo/Chondro/acq musc def	Musculoskeletal
730.27		Osteo/Chondro/acq musc def	Musculoskeletal
730.28		Osteo/Chondro/acq musc def	Musculoskeletal

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730.29		Osteo/Chondro/acq musc def	Musculoskeletal
730.75		Osteo/Chondro/acq musc def	Musculoskeletal
730.76		Osteo/Chondro/acq musc def	Musculoskeletal
730.8		Osteo/Chondro/acq musc def	Musculoskeletal
730.86		Osteo/Chondro/acq musc def	Musculoskeletal
730.97		Osteo/Chondro/acq musc def	Musculoskeletal
731		Osteo/Chondro/acq musc def	Musculoskeletal
732.1		Osteo/Chondro/acq musc def	Musculoskeletal
732.2		Osteo/Chondro/acq musc def	Musculoskeletal
733	l1o_icd9	Osteoporosis	Musculoskeletal
733.1	l1p_icd9	Pathological bone fracture (unspecified sites)	Musculoskeletal
733.13	l1p_icd9	Pathological bone fracture (unspecified sites)	Musculoskeletal
733.14	l1p_icd9	Pathological bone fracture (unspecified sites)	Musculoskeletal
733.19	l1p_icd9	Pathological bone fracture (unspecified sites)	Musculoskeletal
733.21		Disorder bone/cartilage	Musculoskeletal
733.4		Disorder bone/cartilage	Musculoskeletal
733.6		Disorder bone/cartilage	Musculoskeletal
733.82		Disorder bone/cartilage	Musculoskeletal
733.9		Disorder bone/cartilage	Musculoskeletal
733.99		Disorder bone/cartilage	Musculoskeletal
735.4		Osteo/Chondro/acq musc def	Musculoskeletal
735.8		Osteo/Chondro/acq musc def	Musculoskeletal
735.9		Osteo/Chondro/acq musc def	Musculoskeletal
736.79		Osteo/Chondro/acq musc def	Musculoskeletal
736.89	l1n_icd9	Missing Limb (e.g. amputation)	Musculoskeletal
737.1		Curvature of spine	Musculoskeletal
737.19		Curvature of spine	Musculoskeletal
737.3		Curvature of spine	Musculoskeletal
737.34		Curvature of spine	Musculoskeletal
737.39		Curvature of spine	Musculoskeletal
737.41		Curvature of spine	Musculoskeletal
738.2		Other acq deformity	Musculoskeletal
738.4		Other acq deformity	Musculoskeletal
738.5		Other acq deformity	Musculoskeletal
738.9		Other acq deformity	Musculoskeletal
739.7		Disorder muscle, ligamnet, fascia	Musculoskeletal
740.7		Congenital anomalies	Other
741.9		Congenital anomalies	Other
742		Congenital anomalies	Other
742.3		Congenital anomalies	Other
742.59		Congenital anomalies	Other
742.9		Congenital anomalies	Other
745.5		Congenital anomalies	Other
746		Congenital anomalies	Other
746.6		Congenital anomalies	Other
746.85		Congenital anomalies	Other
746.9		Congenital anomalies	Other
747.22		Congenital anomalies	Other
750.15		Congenital anomalies	Other
750.6		Congenital anomalies	Other
750.61		Congenital anomalies	Other
750.8		Congenital anomalies	Other
753.1		Congenital anomalies	Other
753.13		Congenital anomalies	Other
754.2		Congenital anomalies	Other
754.3		Congenital anomalies	Other

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754.89		Congenital anomalies	Other
755.34		Congenital anomalies	Other
755.38		Congenital anomalies	Other
755.6		Congenital anomalies	Other
755.63		Congenital anomalies	Other
756.1		Congenital anomalies	Other
756.11		Congenital anomalies	Other
756.12		Congenital anomalies	Other
756.17		Congenital anomalies	Other
756.19		Congenital anomalies	Other
756.4		Congenital anomalies	Other
756.5		Congenital anomalies	Other
757.1		Congenital anomalies	Other
758		Congenital anomalies	Other
759.83		Congenital anomalies	Other
759.89		Congenital anomalies	Other
767		Congenital anomalies	Other
770.81		Congenital anomalies	Other
771.2		Congenital anomalies	Other
780		General Symptoms	Gen Signs, Sympt, III-defined
780.01		General Symptoms	Gen Signs, Sympt, III-defined
780.03		General Symptoms	Gen Signs, Sympt, III-defined
780.09		General Symptoms	Gen Signs, Sympt, III-defined
780.1	J1i_icd9	Hallucinations	Problem Condition
780.2	J1m_icd9	Syncope	Problem Condition
780.3	I1aa_icd9	Seizure disorder	Neurological
780.39	I1aa_icd9	Other convulsions	Neurological
780.4	J1f_icd9	Dizziness	Problem Condition
780.41	J1f_icd9	Dizziness	Problem Condition
780.5		Sleep Disturbances	Gen Signs, Sympt, III-defined
780.51	X1b_icd9	Sleep Apnea	Gen Signs, Sympt, III-defined
780.52		Insomnia, no apnea	Gen Signs, Sympt, III-defined
780.53	X1b_icd9	Sleep Apnea	Gen Signs, Sympt, III-defined
780.57	X1b_icd9	Sleep Apnea	Gen Signs, Sympt, III-defined
780.59		Sleep disturbance	Gen Signs, Sympt, III-defined
780.6	J1h_icd9	Fever	Problem Condition
780.7		General Symptoms	Gen Signs, Sympt, III-defined
780.79		General Symptoms	Gen Signs, Sympt, III-defined
780.8		General Symptoms	Gen Signs, Sympt, III-defined
780.9		General Symptoms	Gen Signs, Sympt, III-defined
780.93		General Symptoms	Gen Signs, Sympt, III-defined
780.96		General Symptoms	Gen Signs, Sympt, III-defined
780.97		General Symptoms	Gen Signs, Sympt, III-defined
780.99		General Symptoms	Gen Signs, Sympt, III-defined
781		General Symptoms	Gen Signs, Sympt, III-defined
781.2	J1n_icd9	Unsteady Gait	Problem Condition
781.21	J1n_icd9	Unsteady Gait	Problem Condition
781.3		General Symptoms	Gen Signs, Sympt, III-defined
781.92		General Symptoms	Gen Signs, Sympt, III-defined
781.94		General Symptoms	Gen Signs, Sympt, III-defined
782.1		General Symptoms	Gen Signs, Sympt, III-defined
782.2		General Symptoms	Gen Signs, Sympt, III-defined
782.3	J1g_icd9	Edema	Problem Condition
782.4		General Symptoms	Gen Signs, Sympt, III-defined
783		General Symptoms	Gen Signs, Sympt, III-defined
783.07		General Symptoms	Gen Signs, Sympt, III-defined

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
783.2		General Symptoms	Gen Signs, Sympt, Ill-defined
783.21		General Symptoms	Gen Signs, Sympt, Ill-defined
783.3		General Symptoms	Gen Signs, Sympt, Ill-defined
783.41		General Symptoms	Gen Signs, Sympt, Ill-defined
783.5		General Symptoms	Gen Signs, Sympt, Ill-defined
783.7		General Symptoms	Gen Signs, Sympt, Ill-defined
784		General Symptoms	Gen Signs, Sympt, Ill-defined
784.2		General Symptoms	Gen Signs, Sympt, Ill-defined
784.3	I1r_icd9	Aphasia	Neurological
784.4		General Symptoms	Gen Signs, Sympt, Ill-defined
784.5		General Symptoms	Gen Signs, Sympt, Ill-defined
784.51		General Symptoms	Gen Signs, Sympt, Ill-defined
784.6		General Symptoms	Gen Signs, Sympt, Ill-defined
784.69		General Symptoms	Gen Signs, Sympt, Ill-defined
785		General Symptoms	Gen Signs, Sympt, Ill-defined
785.2		General Symptoms	Gen Signs, Sympt, Ill-defined
785.4		General Symptoms	Gen Signs, Sympt, Ill-defined
785.6		General Symptoms	Gen Signs, Sympt, Ill-defined
785.7		Not valid	Gen Signs, Sympt, Ill-defined
786.05	J1l_icd9	Shortness of Breath	Problem Condition
786.07		General Symptoms	Gen Signs, Sympt, Ill-defined
786.09		General Symptoms	Gen Signs, Sympt, Ill-defined
786.2		General Symptoms	Gen Signs, Sympt, Ill-defined
786.36		General Symptoms	Gen Signs, Sympt, Ill-defined
786.5		General Symptoms	Gen Signs, Sympt, Ill-defined
786.59		General Symptoms	Gen Signs, Sympt, Ill-defined
786.6		General Symptoms	Gen Signs, Sympt, Ill-defined
786.8		General Symptoms	Gen Signs, Sympt, Ill-defined
787		General Symptoms	Gen Signs, Sympt, Ill-defined
787.01		General Symptoms	Gen Signs, Sympt, Ill-defined
787.02		General Symptoms	Gen Signs, Sympt, Ill-defined
787.05		Not valid	Gen Signs, Sympt, Ill-defined
787.1		General Symptoms	Gen Signs, Sympt, Ill-defined
787.2	I1_Dysp_icd9	Dysphagia	Gen Signs, Sympt, Ill-defined
787.3		General Symptoms	Gen Signs, Sympt, Ill-defined
787.39		General Symptoms	Gen Signs, Sympt, Ill-defined
787.5		General Symptoms	Gen Signs, Sympt, Ill-defined
787.6		General Symptoms	Gen Signs, Sympt, Ill-defined
787.91		Diarrhea	Gen Signs, Sympt, Ill-defined
788		General Symptoms	Gen Signs, Sympt, Ill-defined
788.1		General Symptoms	Gen Signs, Sympt, Ill-defined
788.2	J1_Urin_icd9	Urinary retention	Gen Signs, Sympt, Ill-defined
788.21	J1_Urin_icd9	Urinary retention	Gen Signs, Sympt, Ill-defined
788.26	J1_Urin_icd9	Urinary retention	Gen Signs, Sympt, Ill-defined
788.29	J1_Urin_icd9	Urinary Retention	Gen Signs, Sympt, Ill-defined
788.3		Urinary incontinence	Gen Signs, Sympt, Ill-defined
788.31		Urinary incontinence	Gen Signs, Sympt, Ill-defined
788.316		Urinary incontinence	Gen Signs, Sympt, Ill-defined
788.32		Urinary incontinence	Gen Signs, Sympt, Ill-defined
788.33		Urinary incontinence	Gen Signs, Sympt, Ill-defined
788.34		Urinary incontinence	Gen Signs, Sympt, Ill-defined
788.37		Urinary incontinence	Gen Signs, Sympt, Ill-defined
788.39		Urinary incontinence	Gen Signs, Sympt, Ill-defined
788.41		General Symptoms	Gen Signs, Sympt, Ill-defined
788.63		General Symptoms	Gen Signs, Sympt, Ill-defined
789		General Symptoms	Gen Signs, Sympt, Ill-defined

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
789.32		General Symptoms	Gen Signs, Sympt, Ill-defined
789.33		General Symptoms	Gen Signs, Sympt, Ill-defined
789.5		General Symptoms	Gen Signs, Sympt, Ill-defined
789.52		General Symptoms	Gen Signs, Sympt, Ill-defined
790.03		Abnormal findings	Gen Signs, Sympt, Ill-defined
790.22		Abnormal findings	Gen Signs, Sympt, Ill-defined
790.29		Abnormal findings	Gen Signs, Sympt, Ill-defined
790.6		Abnormal findings	Gen Signs, Sympt, Ill-defined
790.7		Abnormal findings	Gen Signs, Sympt, Ill-defined
791.9		Abnormal findings	Gen Signs, Sympt, Ill-defined
793.7		Abnormal findings	Gen Signs, Sympt, Ill-defined
794.5		Abnormal findings	Gen Signs, Sympt, Ill-defined
795.5		Abnormal findings	Gen Signs, Sympt, Ill-defined
796.9		Abnormal findings	Gen Signs, Sympt, Ill-defined
797		Abnormal findings	Gen Signs, Sympt, Ill-defined
799		Ill defined/unknown causes morbidity/mortality	Gen Signs, Sympt, Ill-defined
799.02		Ill defined/unknown causes morbidity/mortality	Gen Signs, Sympt, Ill-defined
799.04		Ill defined/unknown causes morbidity/mortality	Gen Signs, Sympt, Ill-defined
799.1		Ill defined/unknown causes morbidity/mortality	Gen Signs, Sympt, Ill-defined
799.2		Ill defined/unknown causes morbidity/mortality	Gen Signs, Sympt, Ill-defined
799.3		Debility	Gen Signs, Sympt, Ill-defined
799.4		General Symptoms	Gen Signs, Sympt, Ill-defined
799.89		General Symptoms	Gen Signs, Sympt, Ill-defined
801		Fractures skull	Musculoskeletal
801.03		Fractures skull	Musculoskeletal
801.2		Fractures skull	Musculoskeletal
801.9		Fractures skull	Musculoskeletal
802		Fractures skull	Musculoskeletal
802.6		Fractures skull	Musculoskeletal
803.2		Fractures skull	Musculoskeletal
803.7		Fractures skull	Musculoskeletal
805		Fractures neck & trunk	Musculoskeletal
805.1		Fractures neck & trunk	Musculoskeletal
805.2		Fractures neck & trunk	Musculoskeletal
805.4		Fractures neck & trunk	Musculoskeletal
805.5		Fractures neck & trunk	Musculoskeletal
805.6		Fractures neck & trunk	Musculoskeletal
805.8		Fractures neck & trunk	Musculoskeletal
807		Fractures neck & trunk	Musculoskeletal
807.01		Fractures neck & trunk	Musculoskeletal
807.02		Fractures neck & trunk	Musculoskeletal
807.09		Fractures neck & trunk	Musculoskeletal
807.2		Fractures neck & trunk	Musculoskeletal
808		Fractures neck & trunk	Musculoskeletal
808.2		Fractures neck & trunk	Musculoskeletal
808.3		Fractures neck & trunk	Musculoskeletal
808.43		Fractures neck & trunk	Musculoskeletal
808.8		Fractures neck & trunk	Musculoskeletal
810		Fractures upper limb	Musculoskeletal
811		Fractures upper limb	Musculoskeletal
811.03		Fractures upper limb	Musculoskeletal
811.9		Not valid	
812		Fractures upper limb	Musculoskeletal
812.02		Fractures upper limb	Musculoskeletal
812.09		Fractures upper limb	Musculoskeletal
812.2		Fractures upper limb	Musculoskeletal

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
812.21		Fractures upper limb	Musculoskeletal
812.4		Fractures upper limb	Musculoskeletal
812.41		Fractures upper limb	Musculoskeletal
812.49		Fractures upper limb	Musculoskeletal
813.01		Fractures upper limb	Musculoskeletal
813.42		Fractures upper limb	Musculoskeletal
813.81		Fractures upper limb	Musculoskeletal
813.9		Fractures upper limb	Musculoskeletal
814		Fractures upper limb	Musculoskeletal
815		Fractures upper limb	Musculoskeletal
815.25		Not valid	Musculoskeletal
818		Fractures upper limb	Musculoskeletal
820.03	I1m_icd9	Fracture hip	Musculoskeletal
820.09	I1m_icd9	Fracture hip	Musculoskeletal
820.2	I1m_icd9	Fracture hip	Musculoskeletal
820.21	I1m_icd9	Fracture hip	Musculoskeletal
820.8	I1m_icd9	Fracture hip	Musculoskeletal
820.9	I1m_icd9	Fracture hip	Musculoskeletal
821	I1m_icd9	Fracture hip	Musculoskeletal
821.01	I1m_icd9	Fracture hip	Musculoskeletal
821.2	I1m_icd9	Fracture hip	Musculoskeletal
821.207	I1m_icd9	Fracture hip	Musculoskeletal
821.23	I1m_icd9	Fracture hip	Musculoskeletal
822		Fractures lower limb	Musculoskeletal
823		Fractures lower limb	Musculoskeletal
823.2		Fractures lower limb	Musculoskeletal
823.8		Fractures lower limb	Musculoskeletal
823.81		Fractures lower limb	Musculoskeletal
823.82		Fractures lower limb	Musculoskeletal
824		Fractures lower limb	Musculoskeletal
824.2		Fractures lower limb	Musculoskeletal
824.4		Fractures lower limb	Musculoskeletal
824.8		Fractures lower limb	Musculoskeletal
824.9		Fractures lower limb	Musculoskeletal
825.2		Fractures lower limb	Musculoskeletal
825.29		Fractures lower limb	Musculoskeletal
829		Fractures lower limb	Musculoskeletal
830.81		Invalid	Musculoskeletal
831		Dislocations	Musculoskeletal
831.19		Dislocations	Musculoskeletal
832		Dislocations	Musculoskeletal
833		Dislocations	Musculoskeletal
835		Dislocations	Musculoskeletal
839.8		Dislocations	Musculoskeletal
840.4		Sprains/Strains	Musculoskeletal
844.8		Sprains/Strains	Musculoskeletal
845		Sprains/Strains	Musculoskeletal
845.09		Sprains/Strains	Musculoskeletal
846		Sprains/Strains	Musculoskeletal
847		Sprains/Strains	Musculoskeletal
847.9		Sprains/Strains	Musculoskeletal
848.41		Sprains/Strains	Musculoskeletal
848.5		Sprains/Strains	Musculoskeletal
852		Intracra injury ex skull fract	Musculoskeletal
852.2		Intracra injury ex skull fract	Musculoskeletal
852.3		Intracra injury ex skull fract	Musculoskeletal

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
853		Intracra injury ex skull fract	Musculoskeletal
854	I1cc_icd9	Tramatic brain injury (unspecified)	Injuries
862.6		Internal inj thorax,abd & pelvis	Injuries
863.5		Internal inj thorax,abd & pelvis	Injuries
864.05		Internal inj thorax,abd & pelvis	Injuries
873.4		Open wound head, neck & trunk	Injuries
873.8		Open wound head, neck & trunk	Injuries
879.2		Open wound head, neck & trunk	Injuries
879.9		Open wound head, neck & trunk	Injuries
885		Open wound upper limb	Injuries
886		Open wound upper limb	Injuries
887		Open wound upper limb	Injuries
887.4		Open wound upper limb	Injuries
888.8		Not valid	
890		Open wound lower limb	Injuries
890.1		Open wound lower limb	Injuries
891		Open wound lower limb	Injuries
891.2		Open wound lower limb	Injuries
892		Open wound lower limb	Injuries
892.1		Open wound lower limb	Injuries
895		Open wound lower limb	Injuries
895.1		Open wound lower limb	Injuries
896		Open wound lower limb	Injuries
897		Open wound lower limb	Injuries
897.2		Open wound lower limb	Injuries
897.6		Open wound lower limb	Injuries
905		Late effect injury	Injuries
905.1		Late effect injury	Injuries
905.3		Late effect injury	Injuries
905.4		Late effect injury	Injuries
906.3		Late effect injury	Injuries
907		Late effect injury	Injuries
907.2		Late effect injury	Injuries
907.9		Late effect injury	Injuries
908.6		Late effect injury	Injuries
909		Late effect injury	Injuries
915.9		Superficial Injury	Injuries
919.8		Superficial Injury	Injuries
920		Contusions	Injuries
922.1		Contusions	Injuries
922.32		Contusions	Injuries
924.01		Contusions	Injuries
924.2		Contusions	Injuries
952.03		Injury nerve/spinal cord	Injuries
952.05		Injury nerve/spinal cord	Injuries
952.09		Injury nerve/spinal cord	Injuries
952.7		Injury nerve/spinal cord	Injuries
952.9		Injury nerve/spinal cord	Injuries
953.4		Injury nerve/spinal cord	Injuries
953.52		Injury nerve/spinal cord	Injuries
955.84		Injury nerve/spinal cord	Injuries
958.3	I2I_icd9	Wound Infection	I 2. Infections
959.01		Injury other & unspecified	Injuries
959.6		Injury other & unspecified	Injuries
959.7		Injury other & unspecified	Injuries
959.9		Injury other & unspecified	Injuries

ICD9	Variable Name	General ICD9 Label	MDS Sect I & J Disease Grp
965.8		Poisoning	Injuries
969.4		Poisoning	Injuries
972.1		Poisoning	Injuries
995		Certain adverse effects	Injuries
995.3	I1nn_icd9	Allergies (unspecified)	Other
995.59		Injury nerve/spinal cord	Injuries
995.91		Sepsis	Other
996.41		Compl surg/medical care	Other
996.42		Compl surg/medical care	Other
996.43		Compl surg/medical care	Other
996.44		Compl surg/medical care	Other
996.47		Compl surg/medical care	Other
996.54		Compl surg/medical care	Other
996.66		Inection/Inflm due to internal pros implant/grft	Other
996.7		Compl surg/medical care	Other
997.3		Compl surg/medical care	Other
997.5		Compl surg/medical care	Other
998.32		Compl surg/medical care	Other
998.59	I2l_icd9	Wound Infection	I 2. Infections
998.83		Compl surg/medical care	Other
TUS		don't know what this is-- TZ	

## A-24: STRIVE Analytical Data Set Contents

### STRIVE 100% Data:

**Data Set Name** STRIVE.STVRPT\_040708  
**Member Type** Data  
**Engine** V9  
**Created** 04/07/2008  
**Last Modified** 04/07/2008  
**Data Representation** WINDOWS\_32  
**Encoding** wlatin1 Western (Windows)  
**Observations** 10136  
**Variables** 798  
**Indexes** 0  
**Observation Length** 2960  
**Deleted Observations** 0  
**Compressed** NO  
**Sorted** YES  
**Size of Database** 32,545 KB

**Table 46. Variables in Creation Order**

#	Variable	Type	Len	Format	Informat	Label
	<b>ID &amp; Weighting Vars:</b>					
1	resid	Char	9	\$9	\$9	STRIVE resident ID
2	case_weight	Num	8			Sample Weighting using Res with MDS/RPT
3	stratum	Num	3	STRATUM.		Sampling Strata: 1=HospBase 2=HiVent 3=HiHIV 4=HiPartA 5=Other
4	facid_s	Char	6			Study Facility ID
5	state_id	Char	2	\$2	\$2	State ID
	<b>Flag Vars:</b>					
6	mds_stm	Num	3	NOYES.		MDS + Full STM: N=9721
7	mds	Num	3	NOYES.		Completed MDS: 1=Yes 0=No
8	rpt	Num	3	NOYES.		Res has RPT MDS: 1=Y 0=N
9	val	Num	3	NOYES.		1/3 Sample Validation Flag 1=Yes 0=No
10	data_draw	Num	3			STRIVE Data Draws: 50%=144facs 75%=144+28facs 100%=144+28+34facs
11	age	Num	3			Age of Resident in Years -- Using MDS + RPT
	<b>Facility Vars:</b>					
12	stmdate	Num	8	DATE9.		STM Start Date
13	traindate	Num	8	DATE9.		Training Start Date
14	study_dt	Num	8	MMDDYY10.		Thursday of Fac's Study Wk
15	PartA	Num	3	PARTA.		Part A: >=15min Rehab for Codes2&3 - 0=N 1=Y 2=Y+No_claim 3=Y+Unk_claim
16	urban	Char	1	\$URBAN.	\$1	Fac Urban-Rural County Status: R=Rural U=Urban
17	version	Num	3			STRIVE Version Number - MDS and Addendum
18	ownership	Num	3	OWNER.		1=Profit 2=NonProfit 3=Govt
19	chain	Char	1	\$NOYES.		Facility Associated with a Chain Y/N
20	vet	Char	1	\$NOYES.		Dept of Veteran Affairs Facility Y/N
21	fac_entire	Num	3	NOYES.		Studied Entire Facility - 1=Yes 0=No
22	unit_type	Num	3	UNIT.		1-LTC 2-SN 3-Reh 4-Alz 5-OMH 6-LMH 7-Vent 8-TBI 9- Oth 10-HIV/AIDS
23	unit_num	Num	3	UNITNUM.		Unit Num- Corresponds to Unit Name
24	unit_supp	Num	3	NOYES.		Supplemental Unit 1=Yes 0=No
25	unit_idx	Char	1	\$UNITIDX.	\$1.00	Study Unit Index
26	nrsng_days	Num	3	DAYS.		STM Nursing Days
27	thrypy_days	Num	3			STM Therapy Days
28	admsn_dt	Num	8	DATE9.	DATE9.	Admis Date - STM
29	dc_dt	Num	8	DATE9.	DATE9.	Dischar Date - STM
30	disp_new	Char	4	\$DISP.		Admit/Discharge Disposition - alpha
31	schedule	Char	1	\$SCHED.	\$1.00	STM Data Collection Schedule: A=Tues B=Tues C=Wed
32	DON_care	Num	3	NOYES.		Dir of Nursing Provides Care- Y=1 N=0
	<b>MDS Vars:</b>					
33	newAB1	Num	8	DATE9.		Entry Date
34	AB2	Num	3	AB2F.	2	Admitted from (at Entry)
35	AB5D	Num	3	NOYES.	2	MH/Psychiatric Setting

#	Variable	Type	Len	Format	Informat	Label
36	AB5E	Num	3	NOYES.	2	MR/DD Setting
37	AB9	Num	3	NOYES.	2	Mental Health History
38	AB10B	Num	3	NOYES.	2	Down's Syndrome
39	AB10C	Num	3	NOYES.	2	Autism
40	AB10D	Num	3	NOYES.	2	Epilepsy
41	AB10E	Num	3	NOYES.	2	Other Organic Cond Related to MR/DD
42	AB10F	Num	3	NOYES.	2	MR/DD w/ No Organic Condition
43	newA3A	Num	8	DATE9.		MDS Assessment Date
44	newA4A	Num	8	DATE9.		MDS Reentry Date
45	B1	Num	3	NOYES.	2	Comatose
46	B2A	Num	3	MEMORY.	2	Short-term Memory OK
47	B2B	Num	3	MEMORY.	2	Long-term Memory OK
48	B3A	Num	3	NOYES.	2	Current Season Recall
49	B3B	Num	3	NOYES.	2	Location of Room Recall
50	B3C	Num	3	NOYES.	2	Staff Names/Faces Recall
51	B3D	Num	3	NOYES.	2	In Nursing Home Recall
52	B3E	Num	3	NOYES.	2	None of Above Recall
53	B4	Num	3	B4F.	2	Cognitive: Daily Decision-Making
54	B5A	Num	3	DELIRIUM.	2	Easily Distracted - Delirium
55	B5B	Num	3	DELIRIUM.	2	Altered Percept/Aware - Delirium
56	B5C	Num	3	DELIRIUM.	2	Disorganized Speech: Delirium
57	B5D	Num	3	DELIRIUM.	2	Restless: Delirium
58	B5E	Num	3	DELIRIUM.	2	Lethargy: Delirium
59	B5F	Num	3	DELIRIUM.	2	Mental Function; Delirium
60	B6	Num	3	B6F.	2	Change - Cognitive Status
61	C1	Num	3	C1F.	2	Hearing
62	C2A	Num	3	NOYES.	2	Hearing Aid Pres/Used
63	C2C	Num	3	NOYES.	2	Other Recept. Comm. Tech.
64	C3A	Num	3	NOYES.	2	Speech: Express
65	C3B	Num	3	NOYES.	2	Writing Messages: Express
66	C3C	Num	3	NOYES.	2	Sign Lang/Braille: Express
67	C3D	Num	3	NOYES.	2	Sign/Gesture/Sound: Express
68	C3E	Num	3	NOYES.	2	Commun. Board: Express
69	C3F	Num	3	NOYES.	2	Other: Express
70	C3G	Num	3	NOYES.	2	None of Above: Express
71	C4	Num	3	C4F.	2	Making Self Understood
72	C5	Num	3	C5F.	2	Speech Clarity
73	C6	Num	3	C6F.	2	Understand Others
74	D1	Num	3	D1F.	2	Vision
75	D2A	Num	3	NOYES.	2	Peripheral Vision
76	D2B	Num	3	NOYES.	2	Halos/Rings/Flashes/Curtains
77	D2C	Num	3	NOYES.	2	None of Above: Vision
78	D3	Num	3	NOYES.	2	Visual Appliances
79	E1A	Num	3	MOOD.	2	Neg Statements: Mood
80	E1B	Num	3	MOOD.	2	Repet. Qs: Mood
81	E1C	Num	3	MOOD.	2	Repet. Verbal: Mood
82	E1D	Num	3	MOOD.	2	Anger Self/Others: Mood
83	E1E	Num	3	MOOD.	2	Self Depre.: Mood
84	E1F	Num	3	MOOD.	2	Unrealistic Fears: Mood
85	E1G	Num	3	MOOD.	2	Terrible Future: Mood
86	E1H	Num	3	MOOD.	2	Hlth Complaints: Mood
87	E1I	Num	3	MOOD.	2	Anxious: Mood
88	E1J	Num	3	MOOD.	2	Unpleasant in Morning: Mood
89	E1K	Num	3	MOOD.	2	Insomnia/Sleeping: Mood
90	E1L	Num	3	MOOD.	2	Sad/Pained: Mood
91	E1M	Num	3	MOOD.	2	Cry: Mood
92	E1N	Num	3	MOOD.	2	Phys Moves: Mood
93	E1O	Num	3	MOOD.	2	Withdraw Act: Mood
94	E1P	Num	3	MOOD.	2	Reduced Soc Interact: Mood
95	E2	Num	3	E2F.	2	Persistence: Mood
96	E4AA	Num	3	BEHFREQ.	2	Wander Freq: Behav.
97	E4AB	Num	3	BEHALT.	2	Wander Alter: Behav
98	E4BA	Num	3	BEHFREQ.	2	Verbal Abuse Freq: Behav.
99	E4BB	Num	3	BEHALT.	2	Verbal Abuse Alter: Behav.
100	E4CA	Num	3	BEHFREQ.	2	Phys Abuse Freq: Behav.
101	E4CB	Num	3	BEHALT.	2	Phys Abuse Alter : Behav.
102	E4DA	Num	3	BEHFREQ.	2	Disrupt Freq: Behav.

#	Variable	Type	Len	Format	Informat	Label
103	E4DB	Num	3	BEHALT.	2	Disrupt Alter: Behav.
104	E4EA	Num	3	BEHFREQ.	2	Resists Care Freq: Behav.
105	E4EB	Num	3	BEHALT.	2	Resists Care Alter: Behav.
106	E5	Num	3	E5F.	2	Change Behav. Sympt
107	F1A	Num	3	NOYES.	2	Interact Others: Well-being
108	F1B	Num	3	NOYES.	2	Planned Activity: Well-being
109	F1C	Num	3	NOYES.	2	Self-Init. Activity: Well-being
110	F1D	Num	3	NOYES.	2	Estab Own Goals: Well-being
111	F1E	Num	3	NOYES.	2	Involve Fac Life: Well-being
112	F1F	Num	3	NOYES.	2	Accepts Activity Invit.: Well-being
113	F1G	Num	3	NOYES.	2	None of Above: Well-being
114	F2A	Num	3	NOYES.	2	Conflict Staff: Well-being
115	F2B	Num	3	NOYES.	2	Unhappy Rmmate: Well-being
116	F2C	Num	3	NOYES.	2	Unhappy Other Res: Well-being
117	F2D	Num	3	NOYES.	2	Conflict Fam/Friend: Well-being
118	F2E	Num	3	NOYES.	2	No Contact Fam/Friend: Well-being
119	F2F	Num	3	NOYES.	2	Recent Loss: Well-being
120	F2G	Num	3	NOYES.	2	Adjust Routine Change: Well-being
121	F2H	Num	3	NOYES.	2	None of Above; Well-being
122	G1AA	Num	3	ADLPER.	2	ADL Bed Mobility Perf
123	G1AB	Num	3	ADLSUP.	2	ADL Bed Mobility Support
124	G1BA	Num	3	ADLPER.	2	ADL Transfer Perf
125	G1BB	Num	3	ADLSUP.	2	ADL Transfer Support
126	G1CA	Num	3	ADLPER.	2	ADL Walk Room Perf
127	G1CB	Num	3	ADLSUP.	2	ADL Walk Room Support
128	G1DA	Num	3	ADLPER.	2	ADL Walk Corridor Perf
129	G1DB	Num	3	ADLSUP.	2	ADL Walk Corridor Support
130	G1EA	Num	3	ADLPER.	2	ADL Loc. On Unit Perf
131	G1EB	Num	3	ADLSUP.	2	ADL Loc. On Unit Support
132	G1FA	Num	3	ADLPER.	2	ADL Loc. Off Unit Perf
133	G1FB	Num	3	ADLSUP.	2	ADL Loc. Off Unit Support
134	G1GA	Num	3	ADLPER.	2	ADL Dress Perf
135	G1GB	Num	3	ADLSUP.	2	ADL Dress Support
136	G1HA	Num	3	ADLPER.	2	ADL Eat Perf
137	G1HB	Num	3	ADLSUP.	2	ADL Eat Support
138	G1IA	Num	3	ADLPER.	2	ADL Toilet Perf
139	G1IB	Num	3	ADLSUP.	2	ADL Toilet Support
140	G1JA	Num	3	ADLPER.	2	ADL Hygiene Perf
141	G1JB	Num	3	ADLSUP.	2	ADL Hygiene Support
142	G3A	Num	3	BALANCE.	2	Standing Balance
143	G3B	Num	3	BALANCE.	2	Sitting Balance
144	G4AA	Num	3	RANGE.	2	ROM Neck
145	G4AB	Num	3	MOVE.	2	Vol Move Neck
146	G4BA	Num	3	RANGE.	2	ROM Arm
147	G4BB	Num	3	MOVE.	2	VOL MOVE Arm
148	G4CA	Num	3	RANGE.	2	ROM Hand
149	G4CB	Num	3	MOVE.	2	VOL MOVE Hand
150	G4DA	Num	3	RANGE.	2	ROM Leg
151	G4DB	Num	3	MOVE.	2	VOL MOVE Leg
152	G4EA	Num	3	RANGE.	2	ROM Foot
153	G4EB	Num	3	MOVE.	2	VOL MOVE Foot
154	G5D	Num	3	NOYES.	2	Wheelchair Primary
155	G6A	Num	3	NOYES.	2	Bedfast All/Most Time
156	G6B	Num	3	NOYES.	2	Bed Rails
157	G7	Num	3	NOYES.	2	Task Seg.
158	G8A	Num	3	NOYES.	2	ADL Potent.: Self
159	G8B	Num	3	NOYES.	2	ADL Potent.: Staff
160	G8C	Num	3	NOYES.	2	ADL Potent.: Slow Perform
161	G9	Num	3	G9F.	2	ADL Funct Change - Last 90 day
162	H1A	Num	3	CONTIN.	2	Bowel Continence
163	H1B	Num	3	CONTIN.	2	Bladder Continence
164	H2A	Num	3	NOYES.	2	Bowel Pattern Regular
165	H2B	Num	3	NOYES.	2	Constipation
166	H2C	Num	3	NOYES.	2	Diarrhea
167	H2D	Num	3	NOYES.	2	Fecal Impaction
168	H2E	Num	3	NOYES.	2	None of Above: Bowel
169	H3A	Num	3	NOYES.	2	Sched Toileting Plan

#	Variable	Type	Len	Format	Informat	Label
170	H3B	Num	3	NOYES.	2	Bladder Retrain Prog
171	H3H	Num	3	NOYES.	2	Enemas/Irrigation
172	I1A	Num	3	NOYES.	2	Diabetes mellitus
173	I1B	Num	3	NOYES.	2	Hyperthyroidism
174	I1C	Num	3	NOYES.	2	Hypothyroidism
175	I1D	Num	3	NOYES.	2	Arteriosclerotic Heart Dis. (ASHD)
176	I1E	Num	3	NOYES.	2	Cardiac Dysrhythmias
177	I1F	Num	3	NOYES.	2	Congestive Heart Failure
178	I1G	Num	3	NOYES.	2	Deep Vein Thrombosis
179	I1H	Num	3	NOYES.	2	Hypertension
180	I1I	Num	3	NOYES.	2	Hypotension
181	I1J	Num	3	NOYES.	2	Peripheral Vascular Disease
182	I1K	Num	3	NOYES.	2	Other Cardiovascular Disease
183	I1L	Num	3	NOYES.	2	Arthritis
184	I1M	Num	3	NOYES.	2	Hip Fracture
185	I1N	Num	3	NOYES.	2	Missing Limb
186	I1O	Num	3	NOYES.	2	Osteoporosis
187	I1P	Num	3	NOYES.	2	Pathological Bone Fracture
188	I1Q	Num	3	NOYES.	2	Alzheimer's Disease
189	I1R	Num	3	NOYES.	2	Aphasia
190	I1S	Num	3	NOYES.	2	Cerebral Palsy
191	I1T	Num	3	NOYES.	2	Cerebrovascular Acc (Stroke)
192	I1U	Num	3	NOYES.	2	Dementia - not Alzheimer's
193	I1V	Num	3	NOYES.	2	Hemiplegia/Hemiparesis
194	I1W	Num	3	NOYES.	2	Multiple Sclerosis
195	I1X	Num	3	NOYES.	2	Paraplegia
196	I1Y	Num	3	NOYES.	2	Parkinson's Disease
197	I1Z	Num	3	NOYES.	2	Quadriplegia
198	I1AA	Num	3	NOYES.	2	Seizure Disorder
199	I1BB	Num	3	NOYES.	2	Transient Ischemic Attack (TIA)
200	I1CC	Num	3	NOYES.	2	Traumatic Brain Injury
201	I1DD	Num	3	NOYES.	2	Anxiety Disorder
202	I1EE	Num	3	NOYES.	2	Depression
203	I1FF	Num	3	NOYES.	2	Manic Depressive (Bipolar)
204	I1GG	Num	3	NOYES.	2	Schizophrenia
205	I1HH	Num	3	NOYES.	2	Asthma
206	I1II	Num	3	NOYES.	2	Emphysema/COPD
207	I1JJ	Num	3	NOYES.	2	Cataracts
208	I1KK	Num	3	NOYES.	2	Diabetic Retinopathy
209	I1LL	Num	3	NOYES.	2	Glaucoma
210	I1MM	Num	3	NOYES.	2	Macular Degeneration
211	I1NN	Num	3	NOYES.	2	Allergies
212	I1OO	Num	3	NOYES.	2	Anemia
213	I1PP	Num	3	NOYES.	2	Cancer
214	I1QQ	Num	3	NOYES.	2	Renal Failure
215	I1RR	Num	3	NOYES.	2	None of Above: Dx
216	I2A	Num	3	NOYES.	2	Antibiotic Resistant Infect
217	I2B	Num	3	NOYES.	2	Clostridium Difficile (c. diff.)
218	I2C	Num	3	NOYES.	2	Conjunctivitis
219	I2D	Num	3	NOYES.	2	HIV Infection
220	I2E	Num	3	NOYES.	2	Pneumonia
221	I2F	Num	3	NOYES.	2	Respiratory Infect
222	I2G	Num	3	NOYES.	2	Septicemia
223	I2H	Num	3	NOYES.	2	Sexually Trans. Dis.
224	I2I	Num	3	NOYES.	2	Tuberculosis
225	I2J	Num	3	NOYES.	2	Urinary Tract Infect
226	I2K	Num	3	NOYES.	2	Viral Hepatitis
227	I2L	Num	3	NOYES.	2	Wound Infection
228	I2M	Num	3	NOYES.	2	None of Above: Infect
229	J1A	Num	3	NOYES.	2	Weight Fluct 3+ lbs
230	J1B	Num	3	NOYES.	2	Inability Lie/Short Breath
231	J1C	Num	3	NOYES.	2	Dehydrated
232	J1D	Num	3	NOYES.	2	Insufficient Fluid
233	J1E	Num	3	NOYES.	2	Delusions
234	J1F	Num	3	NOYES.	2	Dizziness/Vertigo
235	J1G	Num	3	NOYES.	2	Edema
236	J1H	Num	3	NOYES.	2	Fever

#	Variable	Type	Len	Format	Informat	Label
237	J1I	Num	3	NOYES.	2	Hallucinations
238	J1J	Num	3	NOYES.	2	Internal Bleeding
239	J1K	Num	3	NOYES.	2	Recurrent Lung Aspir- Last 90 day
240	J1L	Num	3	NOYES.	2	Shortness of Breath
241	J1M	Num	3	NOYES.	2	Syncope (Fainting)
242	J1N	Num	3	NOYES.	2	Unsteady Gait
243	J1O	Num	3	NOYES.	2	Vomiting
244	J1P	Num	3	NOYES.	2	None of Above: Hlth Cond.
245	J2A	Num	3	J2AF.	2	Pain Frequency
246	J2B	Num	3	J2BF.	2	Pain Intensity
247	J3C	Num	3	NOYES.	2	Chest: Pain Site
248	J3D	Num	3	NOYES.	2	Headache: Pain Site
249	J4A	Num	3	NOYES.	2	Fell Past 30 day: Acc.
250	J4B	Num	3	NOYES.	2	Fell Past 31-180 days: Acc.
251	J4C	Num	3	NOYES.	2	Hip Fract Last 180 days: Acc.
252	J4D	Num	3	NOYES.	2	Other Fract Last 180 days: Acc.
253	J4E	Num	3	NOYES.	2	None of Above: Accident
254	J5A	Num	3	NOYES.	2	Conditions Lead to Instability
255	J5B	Num	3	NOYES.	2	Acute Cond Chronic Prob
256	J5C	Num	3	NOYES.	2	End-Stage Disease
257	J5D	Num	3	NOYES.	2	None of Above: Conditions
258	K1A	Num	3	NOYES.	2	Chew: Oral Prob
259	K1B	Num	3	NOYES.	2	Swallow: Oral Prob
260	K1C	Num	3	NOYES.	2	Mouth Pain: Oral Prob
261	K1D	Num	3	NOYES.	2	None of Above: Oral Prob
262	K2A	Num	3	3	3	Height (inches)
263	K2B	Num	3	4	4	Weight (pounds)
264	K3A	Num	3	NOYES.	2	Weight Loss
265	K3B	Num	3	NOYES.	2	Weight Gain
266	K5A	Num	3	NOYES.	2	Parenteral IV: Nutri.
267	K5B	Num	3	NOYES.	2	Feeding Tube: Nutri.
268	K5C	Num	3	NOYES.	2	Mechan Altered Diet: Nutri.
269	K5E	Num	3	NOYES.	2	Therap Diet: Nutri.
270	K6A	Num	3	K6AF.	2	Total Cal (%) Rec'vd
271	K6B	Num	3	K6BF.	2	Avg Fluid Intake (daily)
272	M1A	Num	3	2	2	Stage 1 Ulcers
273	M1B	Num	3	2	2	Stage 2 Ulcers
274	M1C	Num	3	2	2	Stage 3 Ulcers
275	M1D	Num	3	2	2	Stage 4 Ulcers
276	M2A	Num	3	2	2	Pressure: Ulcer Highest Stage
277	M2B	Num	3	2	2	Stasis: Ulcer Highest Stage
278	M3	Num	3	NOYES.	2	Hist Resolved Ulcers - 90 days
279	M4B	Num	3	NOYES.	2	Burns (2nd /3rd degree): Skin
280	M4C	Num	3	NOYES.	2	Open Lesions: Skin
281	M4E	Num	3	NOYES.	2	Desensitized Pain/Pressure: Skin
282	M4G	Num	3	NOYES.	2	Surgical Wound: Skin
283	M5A	Num	3	NOYES.	2	Chair Press Device: Skin Tx
284	M5B	Num	3	NOYES.	2	Bed Press Dev: Skin Tx
285	M5C	Num	3	NOYES.	2	Turn/Reposition Prog: Skin Tx
286	M5D	Num	3	NOYES.	2	Nutri/Hydration: Skin Tx
287	M5E	Num	3	NOYES.	2	Ulcer Care: Skin Tx
288	M5F	Num	3	NOYES.	2	Surg Wound Care: Skin Tx
289	M5G	Num	3	NOYES.	2	Dressings: Skin Tx
290	M5H	Num	3	NOYES.	2	Oints/Meds: Skin Tx
291	M5I	Num	3	NOYES.	2	Other: Skin Tx
292	M5J	Num	3	NOYES.	2	None of Above: Skin Tx
293	M6B	Num	3	NOYES.	2	Infection: Foot
294	M6C	Num	3	NOYES.	2	Open Lesions: Foot
295	M6F	Num	3	NOYES.	2	Dressings: Foot Tx
296	N1A	Num	3	NOYES.	2	Morning: Time Awake
297	N1B	Num	3	NOYES.	2	Afternoon: Time Awake
298	N1C	Num	3	NOYES.	2	Evening: Time Awake
299	N1D	Num	3	NOYES.	2	None of Above; Time Awake
300	N2	Num	3	N2F.	2	Avg Time Involved Act.
301	O2	Num	3	NOYES.	2	New Meds Last 90 Days
302	O3	Num	3	2	2	Injections - #days: Meds
303	O4A	Num	3	2	2	Antipsychotic - #days: Meds

#	Variable	Type	Len	Format	Informat	Label
304	O4B	Num	3	2	2	Antianxiety - #days: Meds
305	O4C	Num	3	2	2	Antidepress - #days: Meds
306	O4D	Num	3	2	2	Hypnotic - #days: Meds
307	O4E	Num	3	2	2	Diuretic - #days: Meds
308	P1AA	Num	3	NOYES.	2	Tx: Chemo
309	P1AB	Num	3	NOYES.	2	Tx: Dialysis
310	P1AC	Num	3	NOYES.	2	Tx: IV Med
311	P1AE	Num	3	NOYES.	2	Tx: Monitor Acute Cond
312	P1AG	Num	3	NOYES.	2	Tx: Oxygen Therapy
313	P1AH	Num	3	NOYES.	2	Tx: Radiation
314	P1AI	Num	3	NOYES.	2	Tx: Suctioning
315	P1AJ	Num	3	NOYES.	2	Tx: Tracheostomy Care
316	P1AK	Num	3	NOYES.	2	Tx: Transfusions
317	P1AL	Num	3	NOYES.	2	Tx: Ventilator/Respirator
318	P1AO	Num	3	NOYES.	2	Hospice Care: Prog
319	P1AP	Num	3	NOYES.	2	Pediatric Unit: Prog
320	P1AQ	Num	3	NOYES.	2	Respite Care: Prog
321	P1AR	Num	3	NOYES.	2	Train Comm Skills: Prog
322	P1BAA	Num	3	2	2	# Days Speech: Therapy
323	P1BAB	Num	3	5	5	# Min Speech: Therapy
324	P1BBA	Num	3	2	2	# Days Occ: Therapy
325	P1BBB	Num	3	5	5	# Min Occ: Therapy
326	P1BCA	Num	3	2	2	# Days Physical: Therapy
327	P1BCB	Num	3	5	5	# Min Physical: Therapy
328	P1BDA	Num	3	2	2	# Days Respiratory: Therapy
329	P1BDB	Num	3	5	5	# Min Respiratory: Therapy
330	P1BEA	Num	3	2	2	# Days Psy: Therapy
331	P1BEB	Num	3	5	5	# Min Psy: Therapy
332	P3A	Num	3	2	2	ROM (passive): Nurs Rehab
333	P3B	Num	3	2	2	ROM (active): Nurs Rehab
334	P3C	Num	3	2	2	Splint/Brace: Nurs Rehab
335	P3D	Num	3	2	2	Bed Mobility: NursTrain
336	P3E	Num	3	2	2	Transfer: NursTrain
337	P3F	Num	3	2	2	Walking: NursTrain
338	P3G	Num	3	2	2	Dress/Groom: Nurs Train
339	P3H	Num	3	2	2	Eat/Swallow: Nurs Train
340	P3I	Num	3	2	2	Ampu/Prosth: Nurs Train
341	P3J	Num	3	2	2	Commun: Nurs Train
342	P3K	Num	3	2	2	Other: Nurs Train
343	P5	Num	3	3	3	# Hosp Stays - Last 90 days
344	P6	Num	3	3	3	# ER Visits - Last 90 days
345	P7	Num	3	3	3	# Physician Exams
346	P8	Num	3	3	3	# Physician Order Changes
347	Q2	Num	3	Q2F.	2	Overall Change Care Needs -90 day
348	T1AA	Num	3	2	2	# of Days Rec Therapy: PPS
349	T1AB	Num	8	5	5	# Min Rec Therapy: PPS
350	T1B	Num	3	NOYES.	2	Ordered Therapy (Y/N): PPS
351	T1C	Num	3	3	3	# Therapy Days: PPS
352	T1D	Num	3	5	5	# Therapy Min: PPS
	<b>Addendum Vars:</b>					
353	newXA3	Num	8	DATE9.		Addendum V1 Assessment Date
354	XB1	Num	3	XB1F.	2	Procedural Memory
355	XB2	Num	3	XB2F.	2	Abnorm Thought Process
356	XB3	Num	3	XB3F.	2	When Confused
357	XB4	Num	3	XB4F.	2	Cognitive Funct
358	XE1A	Num	3	VIOLENCE.	2	Violence Ideation
359	XE1B	Num	3	VIOLENCE.	2	Violence Threats
360	XE1C	Num	3	VIOLENCE.	2	Violence Acts
361	XE2A	Num	3	DEPRESS.	2	Little Interest - Res Interview
362	XE2B	Num	3	DEPRESS.	2	Feeling own - Res Interview
363	XE2C	Num	3	DEPRESS.	2	Sleep - Res Interview
364	XE2D	Num	3	DEPRESS.	2	Tired - Res Interview
365	XE2E	Num	3	DEPRESS.	2	Appetite - Res Interview
366	XE2F	Num	3	DEPRESS.	2	Feeling Bad - Res Interview
367	XE2G	Num	3	DEPRESS.	2	Concentrating - Res Interview
368	XE2H	Num	3	DEPRESS.	2	Movement - Res Interview
369	XE2I	Num	3	DEPRESS.	2	Thoughts - Res Interview

#	Variable	Type	Len	Format	Informat	Label
370	XE3A	Num	3	DEPRESS.	2	Little Interest - Staff Interview
371	XE3B	Num	3	DEPRESS.	2	Feeling own - Staff Interview
372	XE3C	Num	3	DEPRESS.	2	Sleep - Staff Interview
373	XE3D	Num	3	DEPRESS.	2	Tired - Staff Interview
374	XE3E	Num	3	DEPRESS.	2	Appetite - Staff Interview
375	XE3F	Num	3	DEPRESS.	2	Feeling Bad - Staff Interview
376	XE3G	Num	3	DEPRESS.	2	Concentrating - Staff Interview
377	XE3H	Num	3	DEPRESS.	2	Movement - Staff Interview
378	XE3I	Num	3	DEPRESS.	2	Thoughts - Staff Interview
379	XE3J	Num	3	DEPRESS.	2	Short Temper - Staff Interview
380	XG1	Num	3	XG1F.	2	Dist Walked
381	XG2	Num	3	XG2F.	2	Dist Wheeled Self
382	XG3AA	Num	3	FRACTURE.	2	Knee Replacement
383	XG3AB	Num	3	FRACTURE.	2	Hip Replacement
384	XG3AC	Num	3	FRACTURE.	2	Hip Fracture
385	XG3B	Num	3	2	2	# Prior Indep ADLs
386	XI1A	Num	3	NOYES.	2	Post Trauma Stress
387	XI1B	Num	3	NOYES.	2	Sleep Apnea
388	XJ1	Num	3	XJ1F.	2	Fatigue
389	XJ2	Num	3	XJ2F.	2	Dyspnea
390	XJ3A	Num	3	NOYES.	2	Scheduled Pain Med
391	XJ3B	Num	3	NOYES.	2	PRN Pain Med
392	XJ3C	Num	3	NOYES.	2	Non-Med for Pain
393	XJ4	Num	3	XJ4F.	2	Report Pain
394	XJ4B_V1	Num	3	XJ4F.	2	Pain Most/All Time
395	XJ5A	Num	3	XJ5AF.	2	Comfort Today - Res Interview
396	XJ5B	Num	3	XJ5BF.	2	Pain - Res Interview
397	XJ5C	Num	3	XJ5CF.	2	How Bad - Res Interview
398	XJ5D	Num	3	XJ5DF.	2	Sleep - Res Interview
399	XJ5E	Num	3	XJ5EF.	2	Activity - Res Interview
400	XJ5F	Num	3	XJ5FF.	2	Enough Done - Res Interview
401	XJ5G	Num	3	XJ5GF.	2	Comfort Week - Res Interview
402	XJ6A1	Num	3	NOYES.	2	Pain: Sounds
403	XJ6A2	Num	3	NOYES.	2	Pain: Facial Express
404	XJ6A3	Num	3	NOYES.	2	Pain: Protect Body
405	XJ6A4	Num	3	NOYES.	2	Pain: Complaints
406	XJ6A5	Num	3	NOYES.	2	Pain: Environment
407	XJ6B	Num	3	XJ6BF.	2	Pain: Tx Trials
408	XJ6C	Num	3	XJ6CF.	2	Pain: Care Plan
409	XJ7	Num	3	XJ7F.	2	Pain Control
410	XK1A	Num	3	NOYES.	2	Coughing: Swallow
411	XK1B	Num	3	NOYES.	2	Change Voice: Swallow
412	XK1C	Num	3	NOYES.	2	Diff Eating: Swallow
413	XK1D	Num	3	NOYES.	2	Diff Complaints: Swallow
414	XK2	Num	3	XK2F.	2	Primary Nutri Intake
415	XK3A	Num	8	2	2	# Parenteral Feedings
416	newXK3B	Num	8	DATE9.		Date Last Parenteral Feed
417	XM1A	Num	3	XM1AF.	2	Pressure Ulcer Status
418	XM1B1	Num	3	NOYES.	2	Ulcer Status -Largest
419	XM1B2	Num	3	NOYES.	2	Ulcer Status -Stage
420	XM1B3	Num	3	NOYES.	2	Ulcer Status -Treatment
421	XM1B4	Num	3	NOYES.	2	Pressure: Pressure Status
422	XM1B5	Num	3	NOYES.	2	Location: Ulcer Status
423	XM1B6	Num	3	NOYES.	2	Other: Ulcer Status
424	XM2A_n	Num	8			Ulcer Length -Stage 3 or 4: Num
425	XM2B_n	Num	8			Ulcer Width -Stage 3 or 4: Num
426	XM2C_n	Num	8			Ulcer Depth -Stage 3 or 4: Num
427	XM3A_n	Num	8			Lrg Ulcer Length -Stage 2: Num
428	XM3B_n	Num	8			Lrg Ulcer Width -Stage 2: Num
429	XM4	Num	3	3	3	# Unhealed Stage 2 Ulcers
430	newXM5	Num	8	DATE9.		Date Ulcer Measurement
431	XP1AB	Num	3	NOYES.	2	Barium Swallows -Post Admit
432	XP1BB	Num	3	NOYES.	2	BIPAP/CPAP -Post Admit
433	XP1CB	Num	3	NOYES.	2	Hyperbaric Oxygen -Post Admit
434	XP1DB	Num	3	NOYES.	2	Infection Isolation -Post Admit
435	XP1EA	Num	3	NOYES.	2	IV Med - Pre Admit
436	XP1EB	Num	3	NOYES.	2	IV Med - Post Admit

#	Variable	Type	Len	Format	Informat	Label
437	XP1FB	Num	3	NOYES.	2	Wound Therapy -Post Admit
438	XP1GA	Num	3	NOYES.	2	Oxygen Therapy -Pre Admit
439	XP1GB	Num	3	NOYES.	2	Oxygen Therapy -Post Admit
440	XP1HB	Num	3	NOYES.	2	PET Scan -Post Admit
441	XP1IA	Num	3	NOYES.	2	Suctioning -Pre Admit
442	XP1IB	Num	3	NOYES.	2	Suctioning -Post Admit
443	XP1JA	Num	3	NOYES.	2	Tracheostomy Care -Pre Admit
444	XP1JB	Num	3	NOYES.	2	Tracheostomy Care -Post Admit
445	XP1KA	Num	3	NOYES.	2	Transfusion -Pre Admit
446	XP1KB	Num	3	NOYES.	2	Transfusion -Post Admit
447	XP1IA	Num	3	NOYES.	2	Vent/Respirator -Pre Admit
448	XP1IB	Num	3	NOYES.	2	Vent/Respir -Post Admit
449	XQ1A	Num	3	NOYES.	2	Discharge options
450	XQ1A_V3	Num	3	NOYES.	2	Prefers Commun: Discharge
451	XQ1B	Num	3	NOYES.	2	Place to live in community
452	XQ1C1	Num	3	NOYES.	2	Place to live: Own Home
453	XQ1C2	Num	3	NOYES.	2	Place to live: Relative/Friend
454	XQ1B3_V4	Num	3	NOYES.	2	Grp Home: Discharge Loc
455	XQ1B4_V4	Num	3	NOYES.	2	Other: Discharge Loc
456	XQ1D1	Num	3	NOYES.	2	Discharge: Prefer Home
457	XQ1D2	Num	3	NOYES.	2	Discharge: Prefer Relative/Friend
458	XQ1D3	Num	3	NOYES.	2	Discharge: Prefer Assist Live
459	XQ1D4	Num	3	NOYES.	2	Discharge: Prefer Gr Home
460	XQ1D5	Num	3	NOYES.	2	Discharge: Other
461	XQ1E	Num	3	NOYES.	2	Provide name to agency for info
462	XQ1F	Num	3	XQ1FF.	2	Discharge: Info
463	XQ1E1_V4	Num	3	NOYES.	2	Resident: Discharge Info
464	XQ1E2_V4	Num	3	NOYES.	2	Relative/Friend: Discharge Info
465	XQ1E3_V4	Num	3	NOYES.	2	Legal Guardian: Discharge Info
466	XQ1E4_V4	Num	3	NOYES.	2	Other: Discharge Info
467	XQ1E4_V5	Num	3	NOYES.	2	Discharge Info: Other
468	XQ2A	Num	3	NOYES.	2	Support Person: Discharge
469	XQ2B	Num	3	XQ2BF.	2	Stay Duration: Discharge
470	XQ1C_V4	Num	3	NOYES.	2	Discussion; Discharge
	<b>ICD9 Vars:</b>					
471	NI3A	Num	8			Dx a (ICD9)-Cleaned
472	NI3B	Num	8			Dx b (ICD9)-Cleaned
473	NI3C	Num	8			Dx c (ICD9)-Cleaned
474	NI3D	Num	8			Dx d (ICD9)-Cleaned
475	NI3E	Num	8			Dx e (ICD9)-Cleaned
	<b>New ICD9 Dx Vars:</b>					
476	I3_hyplip_icd9	Num	3	NOYES.		Hyperlipidemia - New Dx
477	I3_gout_icd9	Num	3	NOYES.		Gout - New Dx
478	I3_psych_icd9	Num	3	NOYES.		Psychoses - New Dx
479	I3_neur_icd9	Num	3	NOYES.		Neurotic Disorder - New Dx
480	I3_hunt_icd9	Num	3	NOYES.		Huntington's Chorea - New Dx
481	I3_pulm_icd9	Num	3	NOYES.		Pulmonary fibrosis - New Dx
482	I3_resp_icd9	Num	3	NOYES.		Respiratory failure - New Dx
483	I3_GERD_icd9	Num	3	NOYES.		Gastroesophageal reflex disease - New Dx
484	I3_gast_icd9	Num	3	NOYES.		Gastritis - New Dx
485	I3_digest_icd9	Num	3	NOYES.		Funct digest disorders - New Dx
486	I3_const_icd9	Num	3	NOYES.		Constipation - New Dx
487	I3_ibs_icd9	Num	3	NOYES.		Irritable bowel syndrome(IBS) - New Dx
488	I3_blad_icd9	Num	3	NOYES.		Neurogenic bladder - New Dx
489	I3_prost_icd9	Num	3	NOYES.		Benign prostate - New Dx
490	I3_cel_icd9	Num	3	NOYES.		Cellulitis - New Dx
491	I3_apnea_icd9	Num	3	NOYES.		Sleep Apnea - New Dx
492	I3_dysp_icd9	Num	3	NOYES.		Dysphagia - New Dx
493	I3_urin_icd9	Num	3	NOYES.		Urinary retention - New Dx
	<b>ICD9 Resoluton Vars:</b>					
494	I1a_dx	Num	3	I1LIST.		I1a Resolution: 0=No Dx 1=Both 2=I1a Only 3=I1a_icd9 Only
495	I1b_dx	Num	3	I1LIST.		I1b Resolution: 0=No Dx 1=Both 2=I1b Only 3=I1b_icd9 Only
496	I1c_dx	Num	3	I1LIST.		I1c Resolution: 0=No Dx 1=Both 2=I1c Only 3=I1c_icd9 Only
497	I1d_dx	Num	3	I1LIST.		I1d Resolution: 0=No Dx 1=Both 2=I1d Only 3=I1d_icd9

#	Variable	Type	Len	Format	Informat	Label
						Only
498	I1e_dx	Num	3	I1LIST.		I1e Resolution: 0=No Dx 1=Both 2=I1e Only 3=I1e_icd9 Only
499	I1f_dx	Num	3	I1LIST.		I1f Resolution: 0=No Dx 1=Both 2=I1f Only 3=I1f_icd9 Only
500	I1g_dx	Num	3	I1LIST.		I1g Resolution: 0=No Dx 1=Both 2=I1g Only 3=I1g_icd9 Only
501	I1h_dx	Num	3	I1LIST.		I1h Resolution: 0=No Dx 1=Both 2=I1h Only 3=I1h_icd9 Only
502	I1i_dx	Num	3	I1LIST.		I1i Resolution: 0=No Dx 1=Both 2=I1i Only 3=I1i_icd9 Only
503	I1j_dx	Num	3	I1LIST.		I1j Resolution: 0=No Dx 1=Both 2=I1j Only 3=I1j_icd9 Only
504	I1k_dx	Num	3			I1k Resolution: 0=No Dx 1=Both 2=I1k Only 3=I1k_icd9 Only
505	I1l_dx	Num	3	I1LIST.		I1l Resolution: 0=No Dx 1=Both 2=I1l Only 3=I1l_icd9 Only
506	I1m_dx	Num	3	I1LIST.		I1m Resolution: 0=No Dx 1=Both 2=I1m Only 3=I1m_icd9 Only
507	I1o_dx	Num	3	I1LIST.		I1o Resolution: 0=No Dx 1=Both 2=I1o Only 3=I1o_icd9 Only
508	I1p_dx	Num	3	I1LIST.		I1p Resolution: 0=No Dx 1=Both 2=I1p Only 3=I1p_icd9 Only
509	I1q_dx	Num	3	I1LIST.		I1q Resolution: 0=No Dx 1=Both 2=I1q Only 3=I1q_icd9 Only
510	I1r_dx	Num	3	I1LIST.		I1r Resolution: 0=No Dx 1=Both 2=I1r Only 3=I1r_icd9 Only
511	I1s_dx	Num	3	I1LIST.		I1s Resolution: 0=No Dx 1=Both 2=I1s Only 3=I1s_icd9 Only
512	I1t_dx	Num	3	I1LIST.		I1t Resolution: 0=No Dx 1=Both 2=I1t Only 3=I1t_icd9 Only
513	I1u_dx	Num	3	I1LIST.		I1u Resolution: 0=No Dx 1=Both 2=I1u Only 3=I1u_icd9 Only
514	I1v_dx	Num	3	I1LIST.		I1v Resolution: 0=No Dx 1=Both 2=I1v Only 3=I1v_icd9 Only
515	I1w_dx	Num	3	I1LIST.		I1w Resolution: 0=No Dx 1=Both 2=I1w Only 3=I1w_icd9 Only
516	I1x_dx	Num	3	I1LIST.		I1x Resolution: 0=No Dx 1=Both 2=I1x Only 3=I1x_icd9 Only
517	I1z_dx	Num	3	I1LIST.		I1z Resolution: 0=No Dx 1=Both 2=I1z Only 3=I1z_icd9 Only
518	I1aa_dx	Num	3	I1LIST.		I1aa Resolution: 0=No Dx 1=Both 2=I1aa Only 3=I1aa_icd9 Only
519	I1bb_dx	Num	3	I1LIST.		I1bb Resolution: 0=No Dx 1=Both 2=I1bb Only 3=I1bb_icd9 Only
520	I1cc_dx	Num	3	I1LIST.		I1cc Resolution: 0=No Dx 1=Both 2=I1cc Only 3=I1cc_icd9 Only
521	I1dd_dx	Num	3	I1LIST.		I1dd Resolution: 0=No Dx 1=Both 2=I1dd Only 3=I1dd_icd9 Only
522	I1ee_dx	Num	3	I1LIST.		I1ee Resolution: 0=No Dx 1=Both 2=I1ee Only 3=I1ee_icd9 Only
523	I1ff_dx	Num	3	I1LIST.		I1ff Resolution: 0=No Dx 1=Both 2=I1ff Only 3=I1ff_icd9 Only
524	I1gg_dx	Num	3	I1LIST.		I1gg Resolution: 0=No Dx 1=Both 2=I1gg Only 3=I1gg_icd9 Only
525	I1hh_dx	Num	3	I1LIST.		I1hh Resolution: 0=No Dx 1=Both 2=I1hh Only 3=I1hh_icd9 Only
526	I1ii_dx	Num	3	I1LIST.		I1ii Resolution: 0=No Dx 1=Both 2=I1ii Only 3=I1ii_icd9 Only
527	I1jj_dx	Num	3	I1LIST.		I1jj Resolution: 0=No Dx 1=Both 2=I1jj Only 3=I1jj_icd9 Only
528	I1kk_dx	Num	3	I1LIST.		I1kk Resolution: 0=No Dx 1=Both 2=I1kk Only 3=I1kk_icd9 Only
529	I1ll_dx	Num	3	I1LIST.		I1ll Resolution: 0=No Dx 1=Both 2=I1ll Only 3=I1ll_icd9 Only
530	I1mm_dx	Num	3	I1LIST.		I1mm Resolution: 0=No Dx 1=Both 2=I1mm Only 3=I1mm_icd9 Only
531	I1nn_dx	Num	3	I1LIST.		I1nn Resolution: 0=No Dx 1=Both 2=I1nn Only 3=I1nn_icd9 Only

#	Variable	Type	Len	Format	Informat	Label
532	I1oo_dx	Num	3	I1LIST.		I1oo Resolution: 0=No Dx 1=Both 2=I1oo Only 3=I1oo_icd9 Only
533	I1pp_dx	Num	3	I1LIST.		I1pp Resolution: 0=No Dx 1=Both 2=I1pp Only 3=I1pp_icd9 Only
534	I1qq_dx	Num	3	I1LIST.		I1qq Resolution: 0=No Dx 1=Both 2=I1qq Only 3=I1qq_icd9 Only
535	I2a_dx	Num	3	I2LIST.		I2a Resolution: 0=No Dx 1=Both 2=I2a Only 3=I2a_icd9 Only
536	I2b_dx	Num	3	I2LIST.		I2b Resolution: 0=No Dx 1=Both 2=I2b Only 3=I2b_icd9 Only
537	I2c_dx	Num	3	I2LIST.		I2c Resolution: 0=No Dx 1=Both 2=I2c Only 3=I2c_icd9 Only
538	I2d_dx	Num	3	I2LIST.		I2d Resolution: 0=No Dx 1=Both 2=I2d Only 3=I2d_icd9 Only
539	I2e_dx	Num	3	I2LIST.		I2e Resolution: 0=No Dx 1=Both 2=I2e Only 3=I2e_icd9 Only
540	I2f_dx	Num	3	I2LIST.		I2f Resolution: 0=No Dx 1=Both 2=I2f Only 3=I2f_icd9 Only
541	I2g_dx	Num	3	I2LIST.		I2g Resolution: 0=No Dx 1=Both 2=I2g Only 3=I2g_icd9 Only
542	I2h_dx	Num	3	I2LIST.		I2h Resolution: 0=No Dx 1=Both 2=I2h Only 3=I2h_icd9 Only
543	I2i_dx	Num	3	I2LIST.		I2i Resolution: 0=No Dx 1=Both 2=I2i Only 3=I2i_icd9 Only
544	I2j_dx	Num	3	I2LIST.		I2j Resolution: 0=No Dx 1=Both 2=I2j Only 3=I2j_icd9 Only
545	I2k_dx	Num	3	I2LIST.		I2k Resolution: 0=No Dx 1=Both 2=I2k Only 3=I2k_icd9 Only
546	I2l_dx	Num	3	I2LIST.		I2l Resolution: 0=No Dx 1=Both 2=I2l Only 3=I2l_icd9 Only
547	J1c_dx	Num	3	J1LIST.		J1c Resolution: 0=No Dx 1=Both 2=J1c Only 3=J1c_icd9 Only
548	J1e_dx	Num	3	J1LIST.		J1e Resolution: 0=No Dx 1=Both 2=J1e Only 3=J1e_icd9 Only
549	J1f_dx	Num	3	J1LIST.		J1f Resolution: 0=No Dx 1=Both 2=J1f Only 3=J1f_icd9 Only
550	J1g_dx	Num	3	J1LIST.		J1g Resolution: 0=No Dx 1=Both 2=J1g Only 3=J1g_icd9 Only
551	J1h_dx	Num	3	J1LIST.		J1h Resolution: 0=No Dx 1=Both 2=J1h Only 3=J1h_icd9 Only
552	J1i_dx	Num	3	J1LIST.		J1i Resolution: 0=No Dx 1=Both 2=J1i Only 3=J1i_icd9 Only
553	J1j_dx	Num	3	J1LIST.		J1j Resolution: 0=No Dx 1=Both 2=J1j Only 3=J1j_icd9 Only
554	J1l_dx	Num	3	J1LIST.		J1l Resolution: 0=No Dx 1=Both 2=J1l Only 3=J1l_icd9 Only
555	J1m_dx	Num	3	J1LIST.		J1m Resolution: 0=No Dx 1=Both 2=J1m Only 3=J1m_icd9 Only
556	J1n_dx	Num	3	J1LIST.		J1n Resolution: 0=No Dx 1=Both 2=J1n Only 3=J1n_icd9 Only
	<b>RPT Vars:</b>					
557	rpt_n_mds	Num	3			# MDS items overlaid
558	rpt_p_mds	Num	8			% MDS item overlaid
559	rpt_n_rug	Num	3			# RUG items overlaid
560	rpt_p_rug	Num	8			% RUG items overlaid
561	n_missing	Num	3			-N missing non-check list, numeric items (185)
562	bad_mds	Num	3	NOYES.		Approx >80 items are missing
	<b>Scales:</b>					
563	adlhier	Num	3	INDEP.		ADL Hierarchy
564	cps2	Num	3	COGF.		CPS- initialized to missing
565	drs_nh2	Num	3	LOWHIGH.		Depression Rating Scale_Nurs Home MDS2
566	pain	Num	3	PAIN.		Pain scale
567	I9_Drug	Num	3	NOYES.		DRUG OR ALCOHOL PSYCHOSES/DEPENDENCE/NONDEP - ICD9 291- 292,303-305
568	I9_Schiz	Num	3	NOYES.		SCHIZOPHRENIA - ICD9 295 OR SCHIZOPHR OR DELUSIONS OR HALLUCIN
569	I9_Bipol	Num	3	NOYES.		AFFECTIVE PSYCHOSES - ICD9 296 OR BIPOLAR CHECKOFF

#	Variable	Type	Len	Format	Informat	Label
570	I9_Paran	Num	3	NOYES.		PARANOID STATES - ICD 297
571	I9_OthNon	Num	3	NOYES.		OTHER NONORGANIC PSYCHOSES - ICD 298
572	I9_Person	Num	3	NOYES.		PERSONALITY DISORDERS - ICD 301
573	I9_OthOrg	Num	3	NOYES.		OTHER ORGANIC PSYCHOTIC CONDIT - ICD 294
574	I9_PhyChild	Num	3	NOYES.		PSYCHOSES ORIGIN CHILDHOOD - ICD 299
575	I9_disord	Num	3	NOYES.		ANOREXIA, SLEEP DISORD, EATING DISORD - ICD9 307.1 307.4 307.4
576	I9_Brain	Num	3	NOYES.		ORGANIC BRAIN DAMAGE - ICD9 310
577	I9_Depress	Num	3	NOYES.		DEPRESSIVE DISORD - (ICD9 OR CHECKBOX) *AND* DRS>=2
578	smi	Num	3	NOYES.		Severe Mental Illness (no neurotic): drug/alch schiz affectpsych paranoid othertononorg+orgpersonality psych(child) anorexia/eating sleep orgbraindamage depress
579	delrap	Num	3	NOYES.		Delirium RAP
580	cograp	Num	3	NOYES.		Cognitive loss and Dementia RAP
581	visrap	Num	3	NOYES.		Visual function RAP
582	comrap	Num	3	NOYES.		Communication RAP
583	adlrap	Num	3	NOYES.		ADL RAP
584	contrap	Num	3	NOYES.		Urinary incontinence RAP
585	psychrap	Num	3	NOYES.		Psychosocial RAP
586	moodrap	Num	3	NOYES.		Mood State RAP
587	behrap	Num	3	NOYES.		Behavioral sx RAP
588	actrap	Num	3	NOYES.		Activities RAP
589	fallrap	Num	3	NOYES.		Falls RAP
590	nutrap	Num	3	NOYES.		Nutritional RAP
591	feedrap	Num	3	NOYES.		Feeding tube RAP
592	dehydrap	Num	3	NOYES.		Dehydr/Fluid RAP
593	dentrap	Num	3	NOYES.		Dental RAP-primarily based on mouth pain only
594	pressrap	Num	3	NOYES.		Pressure ulcer RAP
595	hypo	Num	3	NOYES.		Hypotension/gait Trigger
596	impair	Num	3	NOYES.		Cognitive/behavioural Trigger
597	discomf	Num	3	NOYES.		Discomfort Trigger
598	drugrap	Num	3	NOYES.		Overall psychotropic trigger RAP
599	social	Num	3	LOWHIGH.		Social engagement
600	chess_nh2	Num	3	CHESSF.		CHESS
601	sBMI	Num	8			Body Mass Index (kg/m^2)
602	L_BARTH_r	Num	3	INDEP.		Barthel ADL Scale
603	communic	Num	3	COMMUN.		Communication
604	psi	Num	3	PSI.		Patient Severity Index
605	db_group	Num	3	DB.		Deaf/Blind Groups
606	cACTIV	Num	3	CACTIV.		Activities CAP- 1=Trig 0=Not
607	cADL	Num	3	CADL.		ADL CAP- 2=TrigImp 1=TrigPrev 0=Not
608	cBEHAV	Num	3	CBEHAV.		Behavior CAP- 2=TrigReduc 1=TrigPrev 0=Not
609	cBOWEL	Num	3	CBOWEL.		Bowel CAP- 2=TrigImp 1=TrigRisk 0=Not
610	cCARDIO	Num	3	CCARDIO.		Cardio-respiratory CAP- 1=Trig 0=Not
611	cCOGNIT	Num	3	CCOGNIT.		Cognitive CAP- 2=TrigPrev 1=TrigMon 0=Not
612	cCOMMUN	Num	3	CCOMMUN.		Communication CAP- 2=TrigRisk 1=TrigImp 0=Not
613	cDEHYD	Num	3	CDEHYD.		Dehydration CAP- 2=TrigHi 1=TrigLo 0=Not
614	cDELIR	Num	3	CDELIR.		Delirium CAP- 1=Trig 0=Not
615	cFALLS	Num	3	CFALLS.		Falls CAP- 2=TrigHi 1=TrigLo 0=Not
616	cFEEDTB	Num	3	CFEEDTB.		Feeding Tube CAP- 2=TrigHi 1=TrigLo 0=Not
617	cMOOD	Num	3	CMOOD.		Mood CAP- 2=TrigHi 1=TrigLo 0=Not
618	cNUTR	Num	3	CNUTR.		Nutrition CAP- 2=TrigHi 1=TrigLo 0=Not
619	cPAIN	Num	3	CPAIN.		Pain CAP- 2=TrigHi 1=TrigMed 0=Not
620	cSOCFUNC	Num	3	CSOCFUNC.		Social Function CAP- 1=Trig 0=Not
621	cPULCER	Num	3	CPULCER.		Pressure Ulcer CAP- 3=TrigNoUlcer 2=TrigStg1 1=TrigStg2 0=Not
622	cURIN	Num	3	CURIN.		Urinary Incontinence CAP- 3=TrigImp 2=TrigPrev 1=Not_Cont 0=Not_PoorDec
	<b>Special Populations:</b>					
623	id	Num	3	NOYES.		Intellectual Disability
624	obese	Num	3	NOYES.		Obese: BMI >=30
625	mobese	Num	3	NOYES.		Morbidly Obese: BMI >=40
626	rehab_extm	Num	3	NOYES.		RUG-53 group MDS: Rehab+Extensive
627	rehab_ext	Num	3	NOYES.		RUG-53 group STM(Adj): Rehab+Extensive
628	smi_schz	Num	3	NOYES.		Schizophrenia

#	Variable	Type	Len	Format	Informat	Label
629	smi_bip	Num	3	NOYES.		Bipolar
630	smi_oth	Num	3	NOYES.		Other Severe Mental Illness
631	deafblind	Num	3	NOYES.		Deaf/ Blind
632	age00_18	Num	3	NOYES.		Age<=18yrs
633	age19_40	Num	3	NOYES.		Ages 19-40yrs
634	age41_64	Num	3	NOYES.		Ages 41-64yrs
635	verbphys3	Num	3	NOYES.		Verbally or Physically abusive daily
636	respir7	Num	3	NOYES.		Receiving Respiratory therapy for 7 days (p1bda)
637	suction	Num	3	NOYES.		Receiving suctioning (p1ai)
638	burns	Num	3	NOYES.		2nd/3rd degree burns (m4b)
639	chemo	Num	3	NOYES.		Receiving chemotherapy (p1aa)
640	wounds	Num	3	NOYES.		Receiving surgical wound care (m5f)
641	dialysis	Num	3	NOYES.		Dialysis (p1ab)
642	hospice	Num	3	NOYES.		Hospice care (p1ao)
643	deaf	Num	3	NOYES.		Deaf (c1)
644	blind	Num	3	NOYES.		Blind (d1)
645	bam	Num	3	NOYES.		RUG-53 group (MDS) BA1 or BA2
646	bbm	Num	3	NOYES.		RUG-53 group (MDS) BB1 or BB2
647	bariatric	Num	3	NOYES.		Bariatric resident (weight(k2b) >=300lbs)
648	pain_pop	Num	3	NOYES.		In pain (j2a)
649	palliative	Num	3	NOYES.		In palliative care (j5c or p1ao)
	<b>Unit Combinations:</b>					
650	aids_unit	Char	2	\$AIDS.		AIDS residents (i2d    unit type)
651	alzh_unit	Char	2	\$ALZH.		Alzheimer residents (i1q    unit type)
652	smi_unit	Char	2	\$SMI.		Severe Mental Illness (MDS    unit type)
653	vent_unit	Char	2	\$VENT.		Ventilator/respirator (p1al    unit type)
654	tbi_unit	Char	2	\$TBI.		Traumatic Brain Injury (i1cc    unit type)
	<b>RUG-III MDS</b>					
655	srughier34m	Char	3			RUG-34 group (Hier), MDS
656	srugmax34m	Char	3			RUG-34 group (Index-Max), MDS
657	srughier44m	Char	3			RUG-44 group (Hier), MDS
658	srugmax44m	Char	3			RUG-44 group (Index-Max), MDS
659	srughier53m	Char	3			RUG-53 group (Hier), MDS
660	srugmax53m	Char	3			RUG-53 group (Index-Max), MDS
661	ncmivaluehier34m	Num	8			CMI for RUG-34 group (Hier), MDS
662	ncmivaluehier44m	Num	8			CMI for RUG-44 group (Hier), MDS
663	ncmivaluehier53m	Num	8			CMI for RUG-53 group (Hier), MDS
664	ncmivaluemax34m	Num	8			CMI for RUG-34 group (Index-Max), MDS
665	ncmivaluemax44m	Num	8			CMI for RUG-44 group (Index-Max), MDS
666	ncmivaluemax53m	Num	8			CMI for RUG-53 group (Index-Max), MDS
667	rughier44m	Num	3			RUG-44 order (Hier), MDS
668	rughier53m	Num	3			RUG-53 order (Hier), MDS
669	rughier34m	Num	3			RUG-34 order (Hier), MDS
670	rugmax44m	Num	3			RUG-44 order (Index-max), MDS
671	rugmax53m	Num	3			RUG-53 order (Index-max), MDS
672	rugmax34m	Num	3			RUG-34 order (Index-max), MDS
673	iADLSum_m	Num	3			RUG-III ADL Index- MDS-Based
674	iCPSCode_m	Num	3			Cog Perf Scale- Initial to 0(MDS-Based RUG-III)
	<b>RUG STM Adj.</b>					
675	srughier34s	Char	3			RUG-34 group (Hier), STM Adjustment
676	srugmax34s	Char	3			RUG-34 group (Index-Max), STM Adjustment
677	srughier44s	Char	3			RUG-44 group (Hier), STM Adjustment
678	srugmax44s	Char	3			RUG-44 group (Index-Max), STM Adjustment
679	srughier53s	Char	3			RUG-53 group (Hier), STM Adjustment
680	srugmax53s	Char	3			RUG-53 group (Index-Max), STM Adjustment
681	ncmivaluehier34s	Num	8			CMI RUG-34 group(Hier), STM Adjustment)
682	ncmivaluehier44s	Num	8			CMI RUG-44 group(Hier), STM Adjustment
683	ncmivaluehier53s	Num	8			CMI RUG-53 group(Hier), STM Adjustment
684	ncmivaluemax34s	Num	8			CMI RUG-34 group(Index-Max), STM Adjustment
685	ncmivaluemax44s	Num	8			CMI RUG-44 group(Index-Max), STM Adjustment
686	ncmivaluemax53s	Num	8			CMI RUG-53 group(Index-Max), STM Adjustment
687	rughier44s	Num	3			RUG-44 order (Hier), STM Adjustment
688	rughier53s	Num	3			RUG-53 order (Hier), STM Adjustment
689	rughier34s	Num	3			RUG-34 o(Hier), STM Adjustment
690	rugmax44s	Num	3			RUG-44 order (Index-max), STM Adjustment
691	rugmax53s	Num	3			RUG-53 order (Index-max), STM Adjustment
692	rugmax34s	Num	3			RUG-34 order (Index-max), STM Adjustment

#	Variable	Type	Len	Format	Informat	Label
693	iadlsum_s	Num	3			RUG-III ADL Index (STM-based)
694	iCPScode_s	Num	3			Cog Perf Scale- Initial to 0(From RUGs)
695	k5a_stm	Num	3			Parenteral IV (value used for RUG-STM based class)
696	p1ac_stm	Num	3			Tx IV med (value used for RUG-STM based class)
697	p1ai_stm	Num	3			Tx suctioning (value used for RUG-STM class)
698	p1aj_stm	Num	3			Tx tracheostomy (value used for RUG-STM class)
699	p1al_stm	Num	3			Tx vent/resp (value used for RUG-STM class)
	<b>N_vars RUG STM Adj.</b>					
700	n_reh_u	Num	3			Qualify for Ultra Rehab
701	n_reh_v	Num	3			Qualify for Very high Rehab
702	n_reh_h	Num	3			Qualify for High Rehab
703	n_reh_m	Num	3			Qualify for Med Rehab
704	n_reh_l	Num	3			Qualify for Low Rehab
705	n_ext	Num	3			Qualify for Ext Svcs
706	n_spec	Num	3			Qualify for Spec Care
707	n_clin	Num	3			Qualify for Clinically Complex
708	n_impair	Num	3			Qualify for Impaired Cognition
709	n_behav	Num	3			Qualify for Behav Prblms
710	n_nrsum6	Num	3			# of nurs rehab types rec'd 6+days
711	n_nrsum2	Num	3			# of nurs rehab types rec'd 2+days
712	n_depres	Num	3			Depression indicator (RUG III, for Clinc Comp)
713	n_ext_ct	Num	3			Count # selected hier categ + ext svcs that res qualifies
714	n_ext_adl718	Num	3			Qualify for Ext Svcs & ADL (7+)
715	n_spec_adl718	Num	3			Qualify for:(Spec Care + ADL (7+)) OR Exten Svc
716	n_clin_all	Num	3			All qualif for clin complex(clin, spec + ext svc)
717	n_impair_adl410	Num	3			Qualify for Impair Cog & ADL 4-10
718	n_behav_adl410	Num	3			Qualify for Behav & ADL4-10
719	n_reh_ux	Num	3			Qualify for Ultra Rehab& Ext & ADL 7+
720	n_reh_vx	Num	3			Qualify for Very high Rehab & Ext & ADL 7+
721	n_reh_hx	Num	3			Qualify for High Rehab & Ext & ADL 7+
722	n_reh_mx	Num	3			Qualify for Med Rehab & Ext & ADL 7+
723	n_reh_lx	Num	3			Qualify for Low Rehab & Ext & ADL 7+
	<b>STM Summary Vars:</b>					
724	nurs_rstr2	Num	8			Per diem Nurs low+up trunc(min)
725	thrpy_rst_ri	Num	8			Per diem Thrpy (resid min infl)
726	thrpy_rst_si	Num	8			Per diem Thrpy (staff min infl)
727	thrpy_nurs2_rsti	Num	8			Per diem Thrpy+Nurs (min,trunc nurs,infl staff thrpy)
728	nurs_rstr2_prop	Num	8			Per diem Nurs low+up trunc + NRST prop (min)
729	nurs_rstr2_direct	Num	8			Per diem Nurs low+up trunc + NRST dir (min)
730	thrpy_nurs2_prop_rsti	Num	8			Per diem Thrpy+Nurs+NursNRST prop(min,trunc nurs,infl staff thrpy)
731	thrpy_nurs2_direct_rsti	Num	8			Per diem Thrpy+Nurs+NursNRST dir(min,trunc nurs,infl staff thrpy)
732	nurs_costr2	Num	8			Per diem Nurs(2006 CNA wage-wgt min- up trunc RN,LPN,Aide low trunc nurs)
733	thrpy_costi	Num	8			Per diem Therapy (2006 CNA wage-wgt min infl)
734	thrpy_nurs2_costi	Num	8			Per diem Thrpy + Nurs (2006CNA wage-wgt min, trunc nurs, infl staff thrpy)
735	nurs_costr2_prop	Num	8			Per diem Upper/Lower Trunc Nurs RST + NRST(prop) (2006 CNA wage-wgt min)
736	nurs_costr2_direct	Num	8			Per diem Upper/Lower Trunc Nurs RST + NRST (direct) (2006 CNA wage-wgt min)
737	thrpy_nurs2_prop_costi	Num	8			Per diem Thrpy+Nurs+NursNRST prop(2006CNA wage-wgt min,trunc nurs,infl staff thrpy)
738	thrpy_nurs2_direct_costi	Num	8			Per diem Thrpy+Nurs+NursNRST dir(2006CNA wage-wgt min,trunc nurs,infl staff thrpy)
739	rn_rstr	Num	8			Per diem RN, Resp Tx time (min)- upper trunc
740	rstr_lpn	Num	8			Per diem LPN time (min)- upper trunc
741	aide_rstr	Num	8			Per diem Aide time (min)- upper trunc
742	ancil_rst	Num	8			Per diem Ancillary time (min)
743	health_rst	Num	8			Per diem Other health job role time (min)
744	admin_rst	Num	8			Per diem Admin time (min)
745	pt_rst_ri	Num	8			Per diem All PT (resid min, infl)
746	pt_rst_si	Num	8			Per diem All PT time (staff min, infl)
747	ot_rst_ri	Num	8			Per diem All OT (resid min, infl)
748	ot_rst_si	Num	8			Per diem All OT (staff min, infl)
749	slp_rst_ri	Num	8			Per diem SLP & Audiol (resid min, infl)
750	slp_rst_si	Num	8			Per diem SLP, Audiologist time (min, infl staff)

#	Variable	Type	Len	Format	Informat	Label
751	rn_rstr_prop	Num	8			Per diem Upper Trunc RN,Resp Tx RST + NRST (prop)(min)
752	rn_rstr_direct	Num	8			Per diem Upper Trunc RN,Resp Tx RST + NRST (direct) (min)
753	rstr_lpn_prop	Num	8			Per diem Upper Trunc LPN + NRST (prop)(min)
754	rstr_lpn_direct	Num	8			Per diem Upper Trunc LPN + NRST (direct) (min)
755	aide_rstr_prop	Num	8			Per diem Upper Trunc Aide + NRST (prop)(min)
756	aide_rstr_direct	Num	8			Per diem Upper Trunc Aide + NRST (direct) (min)
757	ancil_rst_prop	Num	8			Per diem Ancil min (MB-direct, NRST -prop)
758	ancil_rst_direct	Num	8			Per diem Ancil min (MB, NRST -direct)
759	health_rst_prop	Num	8			Per diem Health min (MB-direct, NRST -prop)
760	health_rst_direct	Num	8			Per diem Health min (MB, NRST -direct)
761	admin_rst_prop	Num	8			Per diem Admin min (MB-direct, NRST -prop)
762	admin_rst_direct	Num	8			Per diem Admin min (MB, NRST -direct)
763	rn_costr	Num	8			Per diem RN, Resp Tx time (2006 CNA wage-wgt min)-upper trunc
764	costr_lpn	Num	8			Per diem LPN time (2006 CNA wage-wgt min)- upper trunc
765	aide_costr	Num	8			Per diem Aide time (2006 CNA wage-wgt min)-upper trunc
766	ancil_cost	Num	8			Per diem Ancillary (2006 CNA wage-wgt min)
767	health_cost	Num	8			Per diem Other health job role (2006 CNA wage-wgt min)
768	admin_cost	Num	8			Per diem Admin (2006 CNA wage-wgt min)
769	pt_costi	Num	8			Per diem PT (2006 CNA wage-wgt min, infl)
770	ot_costi	Num	8			Per diem OT (2006 CNA wage-wgt min, infl)
771	slp_costi	Num	8			Per diem SLP, Audiol (2006 CNA wage-wgt min, infl)
772	rn_costr_prop	Num	8			Per diem Upper Trunc RN,Resp Tx RST + NRST(prop) (2006 CNA wage-wgt min)
773	rn_costr_direct	Num	8			Per diem Upper Trunc RN,Resp Tx RST + NRST (direct) (2006 CNA wage-wgt min)
774	costr_lpn_prop	Num	8			Per diem Upper Trunc LPN RST + NRST (prop)(2006 CNA wage-wgt min)
775	costr_lpn_direct	Num	8			Per diem Upper Trunc LPN RST + NRST (direct) (2006 CNA wage-wgt min)
776	aide_costr_prop	Num	8			Per diem Upper Trunc Aide RST + NRST(prop) (2006 CNA wage-wgt min)
777	aide_costr_direct	Num	8			Per diem Upper Trunc Aide RST + NRST (direct) (2006 CNA wage-wgt min)
778	ancil_cost_prop	Num	8			Per diem Ancil wage-weight min (MB-direct, NRST -prop)
779	ancil_cost_direct	Num	8			Per diem Ancil wage-weight min (MB, NRST -direct)
780	health_cost_prop	Num	8			Per diem Health wage-weight min (MB-direct, NRST -prop)
781	health_cost_direct	Num	8			Per diem Health wage-weight min (MB, NRST -direct)
782	admin_cost_prop	Num	8			Per diem Admin wage-weight min (MB-direct, NRST -prop)
783	admin_cost_direct	Num	8			Per diem Admin wage-weight min (MB, NRST -direct)
784	lnurs_rstr2	Num	8			Log Per diem Nurs low+up trunc(min)
785	lthrpy_rst_ri	Num	8			Log Per diem Thrpy (resid min infl)
786	lthrpy_rst_si	Num	8			Log Per diem Thrpy (staff min infl)
787	lthrpy_nurs2_rsti	Num	8			Log Per diem Thrpy+Nurs (min,trunc nurs,infl staff thrpy)
788	lnurs_costr2	Num	8			Log Per diem Nurs(2006 CNA wage-wgt min- up trunc RN,LPN,Aide low trunc nurs)
789	lthrpy_costi	Num	8			Log Per diem Therapy (2006 CNA wage-wgt min infl)
790	lthrpy_nurs2_costi	Num	8			Log Per diem Thrpy + Nurs (2006CNA wage-wgt min, trunc nurs, infl staff thrpy)
791	lnurs_rstr2_prop	Num	8			Log Per diem Nurs low+up trunc + NRST prop (min)
792	lnurs_rstr2_direct	Num	8			Log Per diem Nurs low+up trunc + NRST dir (min)
793	lthrpy_nurs2_prop_rsti	Num	8			Log Per diem Thrpy+Nurs+NursNRST prop(min,trunc nurs,infl staff thrpy)
794	lthrpy_nurs2_direct_rsti	Num	8			Log Per diem Thrpy+Nurs+NursNRST dir(min,trunc nurs,infl staff thrpy)
795	lnurs_costr2_prop	Num	8			Log Per diem Upper/Lower Trunc Nurs RST + NRST(prop) (2006 CNA wage-wgt min)
796	lnurs_costr2_direct	Num	8			Log Per diem Upper/Lower Trunc Nurs RST + NRST (direct) (2006 CNA wage-wgt min)

#	Variable	Type	Len	Format	Informat	Label
797	lthrpy_nurs2_prop_costi	Num	8			Log Per diem Thrpy+Nurs+NursNRST prop(2006CNA wage-wgt min,trunc nurs,infl staff thrpy)
798	lthrpy_nurs2_direct_costi	Num	8			Log Per diem Thrpy+Nurs+NursNRST dir(2006CNA wage-wgt min,trunc nurs,infl staff thrpy)

**Sort Information:**

Sortedby resid  
Validated YES  
Character Set ANSI

# A-25: Project Coordinator Facility Checklist

Figure 31. Project Coordinator Facility Checklist Page 1



## Project Coordinator Facility Checklist

Facility Name \_\_\_\_\_ STRIVE ID \_\_\_\_\_ Study Date \_\_\_\_\_

**[**This checklist serves as a guide to the tasks the IFMC STRIVE project Coordinator has for each facility study. The order may vary due to circumstances in the facility.**]**

**Pre-Study Tasks**

#	Task	Initials	Date	Time line	Notes
1.	Facility Initial Call			After receipt of invitation	<ul style="list-style-type: none"> <li>Schedule facility</li> <li>Update STRIVE system</li> </ul>
2.	State call follow-up (Optional)			After state facilities call	<ul style="list-style-type: none"> <li>Answer questions from call</li> <li>Schedule facility interview or conduct facility interview (approx 45 minutes)</li> <li>Update STRIVE system</li> </ul>
3.	Welcome Packet *Notify Vicki			The day the facility is scheduled	<ul style="list-style-type: none"> <li>Have STRIVE staff send welcome packet.</li> </ul>
4.	Facility Interview Call			At least 3-4 weeks prior to study	<ul style="list-style-type: none"> <li>Complete the Facility profile</li> <li>Discuss rosters</li> <li>Update profile information and document call in STRIVE system.</li> <li>Request floor plan</li> <li>Check on UPS pickup</li> </ul>
5.	Unit Selection completed			3 weeks prior	<ul style="list-style-type: none"> <li>Use facility profile, floor plan and stratum</li> <li>Review with Manager</li> </ul>
6.	Email rosters and other information			After Unit Selection completed	<ul style="list-style-type: none"> <li>Send roster forms and information sheet</li> <li>Send facility profile for review</li> </ul>
7.	Email MDS Coordinator information list			Prior to MDS call	<ul style="list-style-type: none"> <li>Schedule MDS Coordinator call</li> <li>Send all MDS &amp; Addendum documents</li> </ul>
8.	MDS Coordinator Call			2 weeks prior to study	<ul style="list-style-type: none"> <li>Review the MDS Coordinator information list</li> <li>Encourage use of Feedback form</li> <li>Update STRIVE system</li> </ul>
9.	Lead Data Monitor Call			1 week prior to study	<ul style="list-style-type: none"> <li>Facility profile review for scheduling/staffing and logistics</li> <li>IRR review if applicable</li> </ul>

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Figure 32. Project Coordinator Facility Checklist Page 2



Project Coordinator Facility Checklist

Facility Name \_\_\_\_\_ STRIVE ID \_\_\_\_\_ Study Date \_\_\_\_\_



**Study Week Tasks**

	Task	Initials	Date	Time line	Notes
10.	Lead Data Monitor call			Study week- As needed	<ul style="list-style-type: none"> <li>Status and questions</li> <li>Admissions &amp; Discharges dates and status. Prior to study discharges</li> <li>Resident billing/IT/Culture change</li> <li>Forms/Communication log</li> <li>Checklist review: 1<sup>st</sup> page (therapy info, schedule A/B, laptops used)</li> <li>Verify Payer source for residents</li> <li>Staff training evaluations</li> <li>Verify checklist (schedule for training facility staff versus live data collection)</li> </ul>
11.	Therapy Director Call			Study week Tues./Wed.	<ul style="list-style-type: none"> <li>Email or fax paper tools</li> <li>Go over paper tool information and importance of good data</li> </ul>
12.	Lead Data Monitor call			Study week- end	<ul style="list-style-type: none"> <li>Paper tool</li> <li>Clear time records/wrap up</li> <li>Equipment delivery or pickup</li> <li>Accordion folder pickup</li> <li>48 hour time collection cutoff</li> <li>Initial the backup CD's</li> </ul>

**Post Study Tasks**

	Task	Initials	Date	Time line	Notes
13.	Accordion folder pickup			Thurs of study week	<ul style="list-style-type: none"> <li>Order pickup from UPS</li> </ul>
14.	Paper tools			Tuesday post study	<ul style="list-style-type: none"> <li>Contact facility to fax paper tools</li> <li>Update STRIVE system</li> </ul>
15.	MDS Follow-up #1			Wednesday post study	<ul style="list-style-type: none"> <li>Contact MDS Coordinator</li> <li>Answer questions</li> <li>Review time-line</li> <li>Review pickup</li> <li>Update STRIVE system</li> </ul>
16.	Admits/DC/Deceased			Wednesday post study	<ul style="list-style-type: none"> <li>Name/DOB/Admit or discharge and deceased from Monday through Monday</li> <li>Update STRIVE system</li> </ul>
17.	MDS Follow-up #2			2 weeks post study	<ul style="list-style-type: none"> <li>Contact MDS Coordinator</li> <li>Order pickup or document extension</li> <li>Update STRIVE system</li> </ul>
18.	Missing documentation follow-up			Post study	<ul style="list-style-type: none"> <li>Check with finalization staff</li> <li>Contact facility re: missing information</li> <li>Update STRIVE system</li> </ul>

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