

**MEPS HC-178I:
Appendix to MEPS 2015 Event Files
HC-178A - HC-178H
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A. Data Use Agreement

Individual identifiers have been removed from the micro-data contained in these files. Nevertheless, under sections 308 (d) and 903 (c) of the Public Health Service Act (42 U.S.C. 242m and 42 U.S.C. 299 a-1), data collected by the Agency for Healthcare Research and Quality (AHRQ) and/or the National Center for Health Statistics (NCHS) may not be used for any purpose other than for the purpose for which they were supplied; any effort to determine the identity of any reported cases is prohibited by law.

Therefore in accordance with the above referenced Federal Statute, it is understood that:

1. No one is to use the data in this data set in any way except for statistical reporting and analysis; and
2. If the identity of any person or establishment should be discovered inadvertently, then (a) no use will be made of this knowledge, (b) the Director Office of Management AHRQ will be advised of this incident, (c) the information that would identify any individual or establishment will be safeguarded or destroyed, as requested by AHRQ, and (d) no one else will be informed of the discovered identity; and
3. No one will attempt to link this data set with individually identifiable records from any data sets other than the Medical Expenditure Panel Survey or the National Health Interview Survey.

By using these data you signify your agreement to comply with the above stated statutorily based requirements with the knowledge that deliberately making a false statement in any matter within the jurisdiction of any department or agency of the Federal Government violates Title 18 part 1 Chapter 47 Section 1001 and is punishable by a fine of up to \$10,000 or up to 5 years in prison.

The Agency for Healthcare Research and Quality requests that users cite AHRQ and the Medical Expenditure Panel Survey as the data source in any publications or research based upon these data.

B. Background

1.0 Household Component

The Medical Expenditure Panel Survey (MEPS) provides nationally representative estimates of health care use, expenditures, sources of payment, and health insurance coverage for the U.S. civilian non-institutionalized population. The MEPS Household Component (HC) also provides estimates of respondents' health status, demographic and socio-economic characteristics, employment, access to care, and satisfaction with health care. Estimates can be produced for individuals, families, and selected population subgroups. The panel design of the survey, which includes 5 Rounds of interviews covering 2 full calendar years, provides data for examining person level changes in selected variables such as expenditures, health insurance coverage, and health status. Using computer assisted personal interviewing (CAPI) technology, information about each household member is collected, and the survey builds on this information from interview to interview. All data for a sampled household are reported by a single household respondent.

The MEPS-HC was initiated in 1996. Each year a new panel of sample households is selected. Because the data collected are comparable to those from earlier medical expenditure surveys conducted in 1977 and 1987, it is possible to analyze long-term trends. Each annual MEPS-HC sample size is about 15,000 households. Data can be analyzed at either the person or event level. Data must be weighted to produce national estimates.

The set of households selected for each panel of the MEPS HC is a subsample of households participating in the previous year's National Health Interview Survey (NHIS) conducted by the National Center for Health Statistics. The NHIS sampling frame provides a nationally representative sample of the U.S. civilian non-institutionalized population and reflects an oversample of Blacks and Hispanics. In 2006, the NHIS implemented a new sample design, which included Asian persons in addition to households with Black and Hispanic persons in the oversampling of minority populations. The linkage of the MEPS to the previous year's NHIS provides additional data for longitudinal analytic purposes.

2.0 Medical Provider Component

Upon completion of the household CAPI interview and obtaining permission from the household survey respondents, a sample of medical providers are contacted by telephone to obtain information that household respondents can not accurately provide. This part of the MEPS is called the Medical Provider Component (MPC) and information is collected on dates of visit, diagnosis and procedure codes, charges and payments. The Pharmacy Component (PC), a subcomponent of the MPC, does not collect charges or diagnosis and procedure codes but does collect drug detail information, including National Drug Code (NDC) and medicine name, as well as date filled and sources and amounts of payment. The MPC is not designed to yield national estimates. It is primarily used as an imputation source to supplement/replace household reported expenditure information.

3.0 Survey Management and Data Collection

MEPS HC and MPC data are collected under the authority of the Public Health Service Act. Data are collected under contract with Westat, Inc. (MEPS HC) and Research Triangle Institute (MEPS MPC). Data sets and summary statistics are edited and published in accordance with the confidentiality provisions of the Public Health Service Act and the Privacy Act. The National Center for Health Statistics (NCHS) provides consultation and technical assistance.

As soon as data collection and editing are completed, the MEPS survey data are released to the public in staged releases of summary reports, micro data files, and tables via the MEPS Web site: meps.ahrq.gov. Selected data can be analyzed through MEPSnet, an on-line interactive tool designed to give data users the capability to statistically analyze MEPS data in a menu-driven environment.

Additional information on MEPS is available from the MEPS project manager or the MEPS public use data manager at the Center for Financing, Access, and Cost Trends, Agency for Healthcare Research and Quality, 5600 Fishers Lane, Rockville, MD 20857 (301-427-1406).

C. Technical and Programming Information

1.0 General Information

This documentation describes the MEPS Public Use Release HC-178I, which is the Appendix to MEPS releases HC-178A through HC-178H. This release contains two data files, both of which are provided in ASCII (with related SAS, SPSS, and Stata programming statements and data user information) and SAS versions: 1) the condition-event link file; and 2) the prescribed medicines-event link file. Also included in this release is a PDF file of the condition-event frequency table.

This documentation offers a brief overview of the content and structure of the files and the accompanying codebook. It contains the following sections:

- Data File Information

- Merging/Linking MEPS Data Files

- Crosswalk of Clinical Classification Codes to ICD-9-CM Codes

- Sample SAS Jobs for Linking

For more information on MEPS HC survey design see T. Ezzati-Rice, et al., 1998-2007 and S. Cohen, 1996. For information on the MEPS MPC design, see S. Cohen, 1998. These reports, along with a copy of the survey instruments used to collect the information on this file, are available on the MEPS Web site at the following address: meps.ahrq.gov.

2.0 Data File Information

This public use data set consists of two data files containing variables for linkage of the MEPS 2015 event-level data files. File 1, the H178IF1 or CLNK file, is used for linking the MEPS Conditions file with the MEPS event files; File 2, the H178IF2 or RXLK file, is used for linking the MEPS prescribed medicines event file with other MEPS event files.

The CLNK file contains 6 variables and has a logical record length of 59 with an additional 2-byte carriage return/line feed at the end of each record. The RXLK file contains 6 variables and has a logical record length of 59 with an additional 2-byte carriage return/line feed at the end of each record.

2.1 Codebook Format

Each codebook describes an ASCII data set and provides the following programming identifiers for each variable:

| Identifier | Description |
|-------------------|---------------------------------------------------------------------------|
| Name | Variable name (maximum of 8 characters) |
| Description | Variable descriptor (maximum 40 characters) |
| Format | Number of bytes |
| Type | Type of data: numeric (indicated by NUM) or character (indicated by CHAR) |

| | |
|-------|-------------------------------------------------|
| Start | Beginning column position of variable in record |
| End | Ending column position of variable in record |

2.2 Variable Naming and Source

In general, variable names reflect the content of the variable, with an 8 character limitation. All variables contained on Files 1 and 2 were derived from the CAPI.

2.3 Contents of File 1: Condition-Event Link File (CLNK)

File 1 (H178IF1) or the CLNK file, contains the variables needed to link each record on the MEPS 2015 Conditions file, HC-180, with one or more records on the MEPS 2015 event files, HC-178A, and HC-178D through HC-178H. Section 3.0 contains additional information on completing this linkage.

The 8-character variable DUPERSID uniquely identifies each person represented on the file. There may be more than one record on the CLNK file for a specific DUPERSID value.

CONDIDX is the ID that uniquely identifies each condition for a person and corresponds to a unique record on the MEPS 2015 Conditions file, HC-180. There may be more than one record on the CLNK file for a specific CONDIDX value.

EVNTIDX is the 12-digit number that uniquely identifies each event for a person and corresponds to a unique record on one of the MEPS 2015 event files, HC-178B through HC-178H. (EVNTIDX is not included on the 2015 Prescribed Medicines event file, HC-178A; rather, on this file the variable for linking with EVNTIDX on the CLNK file is LINKIDX.) There may be more than one record on the CLNK file for a specific EVNTIDX value.

CLNKIDX is the 24-digit number that uniquely identifies each record on the CLNK file and is the combination of CONDIDX + EVNTIDX. There is just one record on this file for each value of CLNKIDX, i.e., each unique combination of CONDIDX + EVNTIDX.

The variable EVENTYPE indicates the type of event record identified by EVNTIDX, and has the following values:

- 1 = MVIS – office-based medical provider visit event contained on MEPS release HC-178G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-178F
- 3 = EROM – emergency room visit event contained on MEPS release HC-178E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-178D
- 7 = HVIS – home health visit event contained on MEPS release HC-178H
- 8 = PMED – prescribed medicines event contained on MEPS release HC-178A

PANEL is a constructed variable used to specify the panel number for the interview in which the condition was reported. PANEL will indicate either Panel 19 or Panel 20.

2.4 Contents of File 2: Prescribed Medicines-Event Link File (RXLK)

File 2 (H178IF2) or the RXLK file, contains the variables needed to link each record on the MEPS 2015 Prescribed Medicines file, HC-178A, with one or more records on the MEPS 2015 event files, HC-178B and HC-178D through HC-178G. Section 3.0 contains additional information on completing this linkage.

The 8-character variable DUPERSID uniquely identifies each person represented on the file. There may be more than one record on the RXLK file for a specific DUPERSID value.

EVNTIDX is the 12-digit number that uniquely identifies each event for a person and corresponds to a unique record on one of the MEPS 2015 event files, HC-178B through HC-178G. There may be more than one record on the RXLK file for a specific EVNTIDX value.

LINKIDX is the 12-digit number that identifies the record(s) on the prescribed medicines file, HC-178A that link to an event record. There may be more than one record on the RXLK file for a specific LINKIDX value, and there may be more than one record on the HC-178A file for a specific LINKIDX value.

RXLKIDX is the 24-digit number that uniquely identifies each record on the RXLK file, and is the combination of EVNTIDX + LINKIDX. There is just one record on this file for each value of RXLKIDX, i.e., each unique combination of EVNTIDX + LINKIDX.

The variable EVENTYPE indicates the type of event record identified by EVNTIDX, and has the following values:

- 1 = MVIS – office-based medical provider visit event contained on MEPS release HC-178G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-178F
- 3 = EROM – emergency room visit event contained on MEPS release HC-178E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-178D
- 5 = DVIS – dental visit event contained on MEPS release HC-178B

For 1996-2004, records for purchases of insulin and diabetic supplies in a round were included in the Other Medical Expenses event files. Beginning with the 2005 file, these records are not included in the Other Medical Expenses file because the expenditures have always been included in the Prescribed Medicines file. As a consequence, there are no records in this file where the variable EVENTYPE = 6, the value used in 1996-2004 to identify OMED type of event record.

PANEL is a constructed variable used to specify the panel number for the interview in which the condition was reported. PANEL will indicate either Panel 19 or Panel 20.

2.5 2015 Condition-Event Frequency Table

Table 1 in Appendix 2 of the Conditions document HC-180 contains the MEPS 2015 Condition-Event Frequency table. This table contains unweighted and weighted counts of records on the MEPS 2015 event files, HC-178A through HC-178H, for each of the condition, procedure, and clinical classification codes contained on the MEPS 2015 Conditions file, HC-180. Attachment 1 contains a crosswalk of the clinical classification codes to ICD-9-CM codes.

Analysts should use the clinical classification codes listed in the Conditions PUF document (HC-180) and the Appendix to the Event Files (HC-178I) document when analyzing MEPS conditions data. Although there is a list of clinical classification codes and labels on the Healthcare Cost and Utilization Project (HCUP) Web site, if updates to these codes and/or labels are made on the HCUP Web site after the release of the 2015 MEPS PUFs, these updates will not be reflected in the 2015 MEPS data.

Note that, through FY2012 for conditions related to certain medical events, the ICD-9-CM codes on the Conditions file were also released in the Prescribed Medicines, Emergency Room Visits, Office-based Medical Provider Visits, Outpatient Department Visits, and Inpatient Hospital Stays Event Files. Starting in FY2013, ICD-9-CM condition and procedure codes variables were released only on the Conditions file. For more information on ICD-9-CM codes, see the HC-180 documentation.

3.0 Merging/Linking MEPS Data Files

This section provides information on using each of the two HC-178I files, RXLK and CLNK, to link with the files contained in MEPS releases HC-180 and HC-178A, HC-178B, and HC-178D through HC-178H. The linking procedure is described using several examples of deriving MEPS-based estimates. Also included in this section are several caveats related to using the RXLK and CLNK files.

3.1 Example A: Using the CLNK (HC-178IF1) and RXLK (HC-178IF2) Files with the Medical Conditions File (HC-180), the Prescribed Medicines and Office-Based Medical Provider Visits Event Files (HC-178A and HC-178G)

This example calculates the total expenditures for prescribed medicines associated with office-based medical provider visits for asthma, using these files: the Conditions file (HC-180), the CLNK file (HC-178IF1), the office-based medical provider visit event file (HC-178G), the RXLK file (HC-178IF2), and the prescribed medicines event file (HC-178A). It includes the following major steps:

1. From the HC-180 file, select only records with condition coded as asthma.
2. Use the CLNK file to obtain unique record IDs of events which are linked to each of the selected asthma condition records.
3. From the HC-178G file, select only records for non-telephone office-based medical provider visits for persons with a positive weight.
4. Using the selected record IDs obtained from the CLNK file, with the selected HC-178G records, identify only those visits which were for asthma.
5. Use the RXLK file with the selected visit records which were for asthma to obtain unique record IDs of prescribed medicine records from file HC-178A linked to those visits.

6. Using these record IDs, obtain the linked records from the HC-178A file and calculate the weighted mean of the expenditure variable.

Attachment 2 contains a copy of the SAS job for this example.

3.2 Example B: Using the CLNK File (HC-178IF1) with the Medical Conditions File (HC-180) and the Prescribed Medicines Event File (HC-178A)

This example calculates the total expenditure for prescribed medicines associated with asthma, using the Conditions file (HC-180), the CLNK file (HC-178IF1) and the prescribed medicines event file (HC-178A). It includes the following major steps:

1. From the HC-180 file, select only records with condition coded as asthma.
2. Use the CLNK file to obtain unique record IDs of events which are linked to each of the asthma condition records.
3. Using these record IDs, obtain linked records from the HC-178A file and calculate the weighted mean of the expenditure variable.

Attachment 2 contains a copy of the SAS job for this example.

3.3 Example C: Using the CLNK File (HC-178IF1) with the Medical Conditions File (HC-180) and Office-Based Medical Provider Visits Event File (HC-178G)

This example calculates the total expenditures for office-based medical provider visits associated with asthma, using the Conditions file (HC-180), the CLNK file (HC-178IF1) and the office-based medical provider visits event file (HC-178G). It includes the following major steps:

1. From the HC-180 file, select only records with condition coded as asthma.
2. Use the CLNK file to obtain unique record IDs of events which are linked to each of the asthma condition records.
3. From the HC-178G file, select only records for non-telephone office-based medical provider visits for persons with a positive weight.
4. Using the selected record IDs obtained from the CLNK file, with the selected HC-178G records, identify only those visits which were for asthma and calculate the weighted mean of the expenditure variable.

Attachment 2 contains a copy of the SAS job for this example.

3.4 Limitations/Caveats of the CLNK File

When using the CLNK file, analysts should keep in mind that (1) conditions are self-reported and (2) there may be multiple conditions associated with an event. Users should also note that not all events link to the Conditions file.

3.5 Limitations/Caveats of the RXLK File

When using the RXLK file, analysts should keep in mind that one event record can link to more than one prescribed medicine record. Conversely, a prescribed medicine record may link to more than one event record in the same event file and/or more than one event record in other event files. When this occurs, it is up to the analyst to determine how the prescribed medicine expenditures should be allocated among those medical events.

3.6 National Health Interview Survey

Data from this file can be used alone or in conjunction with other files for different analytic purposes. Each MEPS panel can also be linked back to the previous years' National Health Interview Survey public use data files. For information on obtaining MEPS/NHIS link files please see meps.ahrq.gov/data_stats/more_info_download_data_files.jsp.

3.7 Using MEPS Data for Trend Analysis

MEPS began in 1996, and the utility of the survey for analyzing health care trends expands with each additional year of data. However, it is important to consider a variety of factors when examining trends over time using MEPS. Statistical significance tests should be conducted to assess the likelihood that observed trends may be attributable to sampling variation. The length of time being analyzed should also be considered. In particular, large shifts in survey estimates over short periods of time (e.g. from one year to the next) that are statistically significant should be interpreted with caution, unless they are attributable to known factors such as changes in public policy, economic conditions, or MEPS survey methodology. For example, as a result of improved methods for collecting priority conditions data implemented in 2007, prevalence measures prior to 2007 are not comparable to those from 2007 and beyond for many conditions. Users should refer to the documentation for the conditions file (HC-180) for details.

With respect to methodological considerations, in 2013 MEPS introduced an effort to obtain more complete information about health care utilization from MEPS respondents with full implementation in early 2014. This effort likely resulted in improved data quality and a reduction in underreporting in 2014, but could have some modest impact on analyses involving trends in utilization across years.

There are also statistical factors to consider in interpreting trend analyses. Looking at changes over longer periods of time can provide a more complete picture of underlying trends. Analysts may wish to consider using techniques to smooth or stabilize analyses of trends using MEPS data such as comparing pooled time periods (e.g. 1996-97 versus 2011-12), working with moving averages or using modeling techniques with several consecutive years of MEPS data to test the fit of specified patterns over time. Finally, researchers should be aware of the impact of multiple comparisons on Type I error. Without making appropriate allowance for multiple comparisons, undertaking numerous statistical significance tests of trends increases the likelihood of concluding that a change has taken place when one has not.

3.8 Longitudinal Analysis

Panel-specific longitudinal files are available for downloading in the data section of the MEPS Web site. For each panel, the longitudinal file comprises MEPS survey data obtained in Rounds 1 through 5 of the panel and can be used to analyze changes over a two-year period. Variables in the file pertaining to survey administration, demographics, employment, health status, disability days, quality of care, patient satisfaction, health insurance, and medical care use and expenditures were obtained from the MEPS full-year Consolidated files from the two years covered by that panel.

Attachment 1:

Clinical Classification Code to ICD-9-CM Code Crosswalk

Appendix A - Clinical Classification Software-DIAGNOSES (January 1980 through September 2015)

The following tables list the ICD-9-CM condition and V codes that have been aggregated for each clinical classification category. These clinical classification categories were generated using Clinical Classification Software provided on the Healthcare Cost and Utilization Project (HCUP) website. For each clinical classification category, one or more ICD-9-CM and/or V code is listed.

| | | | | | | | | | | | |
|----------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | Tuberculosis | | | | | | | | | | |
| | 01000 | 01001 | 01002 | 01003 | 01004 | 01005 | 01006 | 01010 | 01011 | 01012 | 01013 |
| | 01014 | 01015 | 01016 | 01080 | 01081 | 01082 | 01083 | 01084 | 01085 | 01086 | 01090 |
| | 01091 | 01092 | 01093 | 01094 | 01095 | 01096 | 01100 | 01101 | 01102 | 01103 | 01104 |
| | 01105 | 01106 | 01110 | 01111 | 01112 | 01113 | 01114 | 01115 | 01116 | 01120 | 01121 |
| | 01122 | 01123 | 01124 | 01125 | 01126 | 01130 | 01131 | 01132 | 01133 | 01134 | 01135 |
| | 01136 | 01140 | 01141 | 01142 | 01143 | 01144 | 01145 | 01146 | 01150 | 01151 | 01152 |
| | 01153 | 01154 | 01155 | 01156 | 01160 | 01161 | 01162 | 01163 | 01164 | 01165 | 01166 |
| | 01170 | 01171 | 01172 | 01173 | 01174 | 01175 | 01176 | 01180 | 01181 | 01182 | 01183 |
| | 01184 | 01185 | 01186 | 01190 | 01191 | 01192 | 01193 | 01194 | 01195 | 01196 | 01200 |
| | 01201 | 01202 | 01203 | 01204 | 01205 | 01206 | 01210 | 01211 | 01212 | 01213 | 01214 |
| | 01215 | 01216 | 01220 | 01221 | 01222 | 01223 | 01224 | 01225 | 01226 | 01230 | 01231 |
| | 01232 | 01233 | 01234 | 01235 | 01236 | 01280 | 01281 | 01282 | 01283 | 01284 | 01285 |
| | 01286 | 01300 | 01301 | 01302 | 01303 | 01304 | 01305 | 01306 | 01310 | 01311 | 01312 |
| | 01313 | 01314 | 01315 | 01316 | 01320 | 01321 | 01322 | 01323 | 01324 | 01325 | 01326 |
| | 01330 | 01331 | 01332 | 01333 | 01334 | 01335 | 01336 | 01340 | 01341 | 01342 | 01343 |
| | 01344 | 01345 | 01346 | 01350 | 01351 | 01352 | 01353 | 01354 | 01355 | 01356 | 01360 |
| | 01361 | 01362 | 01363 | 01364 | 01365 | 01366 | 01380 | 01381 | 01382 | 01383 | 01384 |
| | 01385 | 01386 | 01390 | 01391 | 01392 | 01393 | 01394 | 01395 | 01396 | 01400 | 01401 |
| | 01402 | 01403 | 01404 | 01405 | 01406 | 01480 | 01481 | 01482 | 01483 | 01484 | 01485 |
| | 01486 | 01500 | 01501 | 01502 | 01503 | 01504 | 01505 | 01506 | 01510 | 01511 | 01512 |
| | 01513 | 01514 | 01515 | 01516 | 01520 | 01521 | 01522 | 01523 | 01524 | 01525 | 01526 |
| | 01550 | 01551 | 01552 | 01553 | 01554 | 01555 | 01556 | 01560 | 01561 | 01562 | 01563 |
| | 01564 | 01565 | 01566 | 01570 | 01571 | 01572 | 01573 | 01574 | 01575 | 01576 | 01580 |
| | 01581 | 01582 | 01583 | 01584 | 01585 | 01586 | 01590 | 01591 | 01592 | 01593 | 01594 |
| | 01595 | 01596 | 01600 | 01601 | 01602 | 01603 | 01604 | 01605 | 01606 | 01610 | 01611 |
| | 01612 | 01613 | 01614 | 01615 | 01616 | 01620 | 01621 | 01622 | 01623 | 01624 | 01625 |
| | 01626 | 01630 | 01631 | 01632 | 01633 | 01634 | 01635 | 01636 | 01640 | 01641 | 01642 |
| | 01643 | 01644 | 01645 | 01646 | 01650 | 01651 | 01652 | 01653 | 01654 | 01655 | 01656 |
| | 01660 | 01661 | 01662 | 01663 | 01664 | 01665 | 01666 | 01670 | 01671 | 01672 | 01673 |
| | 01674 | 01675 | 01676 | 01690 | 01691 | 01692 | 01693 | 01694 | 01695 | 01696 | 01700 |
| | 01701 | 01702 | 01703 | 01704 | 01705 | 01706 | 01710 | 01711 | 01712 | 01713 | 01714 |
| | 01715 | 01716 | 01720 | 01721 | 01722 | 01723 | 01724 | 01725 | 01726 | 01730 | 01731 |
| | 01732 | 01733 | 01734 | 01735 | 01736 | 01740 | 01741 | 01742 | 01743 | 01744 | 01745 |
| | 01746 | 01750 | 01751 | 01752 | 01753 | 01754 | 01755 | 01756 | 01760 | 01761 | 01762 |
| | 01763 | 01764 | 01765 | 01766 | 01770 | 01771 | 01772 | 01773 | 01774 | 01775 | 01776 |
| | 01780 | 01781 | 01782 | 01783 | 01784 | 01785 | 01786 | 01790 | 01791 | 01792 | 01793 |
| | 01794 | 01795 | 01796 | 01800 | 01801 | 01802 | 01803 | 01804 | 01805 | 01806 | 01880 |
| | 01881 | 01882 | 01883 | 01884 | 01885 | 01886 | 01890 | 01891 | 01892 | 01893 | 01894 |
| | 01895 | 01896 | 1370 | 1371 | 1372 | 1373 | 1374 | V1201 | | | |

| | | | | | | | | | | | |
|----------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 2 | Septicemia (except in labor) | | | | | | | | | | |
| | 0031 | 0202 | 0223 | 0362 | 0380 | 0381 | 03810 | 03811 | 03812 | 03819 | 0382 |
| | 0383 | 03840 | 03841 | 03842 | 03843 | 03844 | 03849 | 0388 | 0389 | 449 | 0545 |
| | 77181 | 7907 | 99591 | 99592 | | | | | | | |

| | | | | | | | | | | | |
|----------|----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3 | Bacterial infection; unspecified site | | | | | | | | | | |
| | 0200 | 0208 | 0209 | 0218 | 0219 | 0228 | 0229 | 0230 | 0231 | 0232 | 0233 |
| | 0239 | 024 | 025 | 0260 | 0269 | 0270 | 0271 | 0272 | 0278 | 0279 | 0300 |
| | 0302 | 0303 | 0308 | 0309 | 0312 | 0318 | 0319 | 03289 | 0329 | 0330 | 0331 |
| | 0339 | 0341 | 0363 | 03681 | 03689 | 0369 | 037 | 0392 | 0393 | 0394 | 0398 |
| | 0400 | 0401 | 0402 | 0403 | 04042 | 04081 | 04082 | 04089 | 0410 | 04100 | 04101 |
| | 04103 | 04104 | 04105 | 04109 | 0411 | 04110 | 04111 | 04112 | 04119 | 0412 | 0413 |
| | 04143 | 0415 | 0416 | 0417 | 0418 | 04181 | 04182 | 04183 | 04184 | 04185 | 04186 |
| | 0419 | 390 | 3929 | 7953 | 79531 | 79539 | V090 | V091 | V092 | V093 | V094 |
| | V0951 | V096 | V097 | V0971 | V0980 | V0981 | V0990 | V0991 | | | V0950 |
| 4 | Mycoses | | | | | | | | | | |
| | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1108 | 1109 | 1110 | 1111 |
| | 1113 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1125 | 11282 | 11284 | 11285 |
| | 1129 | 1141 | 1143 | 1149 | 11500 | 11509 | 11510 | 11519 | 11590 | 11599 | 1160 |
| | 1162 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 |
| 5 | HIV infection | | | | | | | | | | |
| | 042 | 0420 | 0421 | 0422 | 0429 | 0430 | 0431 | 0432 | 0433 | 0439 | 0440 |
| | 07953 | 27910 | 27919 | 79571 | 7958 | V08 | | | | | 0449 |
| 6 | Hepatitis | | | | | | | | | | |
| | 0700 | 0701 | 0702 | 07020 | 07021 | 07022 | 07023 | 0703 | 07030 | 07031 | 07032 |
| | 0704 | 07041 | 07042 | 07043 | 07044 | 07049 | 0705 | 07051 | 07052 | 07053 | 07054 |
| | 0706 | 07070 | 07071 | 0709 | 07271 | 57140 | 57141 | 57142 | 57149 | 5731 | 5732 |
| 7 | Viral infection | | | | | | | | | | |
| | 0500 | 0501 | 0502 | 0509 | 0510 | 05101 | 05102 | 0511 | 0512 | 0519 | 0527 |
| | 0529 | 05310 | 05311 | 05312 | 05313 | 05319 | 05371 | 05379 | 0538 | 0539 | 0540 |
| | 05411 | 05412 | 05413 | 05419 | 0542 | 0546 | 05471 | 05473 | 05479 | 0548 | 0549 |
| | 0558 | 0559 | 05600 | 05609 | 05679 | 0568 | 0569 | 0570 | 0578 | 0579 | 05810 |
| | 05812 | 05881 | 05882 | 05889 | 05900 | 05901 | 05909 | 05910 | 05911 | 05912 | 05919 |
| | 05921 | 05922 | 0598 | 0599 | 0600 | 0601 | 0609 | 061 | 0650 | 0651 | 0652 |
| | 0654 | 0658 | 0659 | 0660 | 0661 | 0663 | 0664 | 06640 | 06642 | 06649 | 0668 |
| | 071 | 0720 | 0723 | 07272 | 07279 | 0728 | 0729 | 0737 | 0738 | 0739 | 0740 |
| | 0743 | 0748 | 075 | 0780 | 0781 | 07810 | 07811 | 07812 | 07819 | 0782 | 0783 |
| | 0785 | 0786 | 0787 | 07881 | 07882 | 07888 | 07889 | 0790 | 0791 | 0792 | 0793 |
| | 07950 | 07951 | 07952 | 07959 | 0796 | 0798 | 07981 | 07982 | 07983 | 07988 | 07989 |
| | 07998 | 07999 | 7908 | | | | | | | | 0799 |
| 8 | Other infections; including parasitic | | | | | | | | | | |
| | 080 | 0810 | 0811 | 0812 | 0819 | 0820 | 0821 | 0822 | 0823 | 08240 | 08241 |
| | 0828 | 0829 | 0831 | 0832 | 0838 | 0839 | 0840 | 0841 | 0842 | 0843 | 0844 |
| | 0846 | 0847 | 0848 | 0849 | 0850 | 0851 | 0852 | 0853 | 0854 | 0855 | 0859 |
| | 0861 | 0862 | 0863 | 0864 | 0865 | 0869 | 0870 | 0871 | 0879 | 0880 | 0888 |
| | 08882 | 08889 | 0889 | 1000 | 10089 | 1009 | 101 | 1020 | 1021 | 1022 | 1023 |
| | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1039 | 1040 |
| | 1049 | 1200 | 1201 | 1202 | 1203 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 |
| | 1215 | 1216 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 |
| | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1238 | 1239 |
| | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1259 | 1260 | 1261 |
| | 1263 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 |
| | 1279 | 1280 | 1281 | 1288 | 1289 | 129 | 1305 | 1307 | 1308 | 1309 | 13100 |
| | 13102 | 13103 | 13109 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1329 | 1330 |
| | | | | | | | | | | | 1338 |

| | | | | | | | | | | | | |
|-----------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1339 | 1340 | 1341 | 1342 | 1348 | 1349 | 135 | 1360 | 1361 | 1362 | 13621 | 13629 |
| | 1364 | 1365 | 1368 | 1369 | 1398 | V120 | V1200 | V1203 | V1204 | V1209 | | |
| 9 | Sexually transmitted infections (not HIV or hepatitis) | | | | | | | | | | | |
| | 0900 | 0901 | 0902 | 0903 | 09040 | 09041 | 09042 | 09049 | 0905 | 0906 | 0907 | 0909 |
| | 0910 | 0911 | 0912 | 0913 | 0914 | 09150 | 09151 | 09152 | 09161 | 09162 | 09169 | 0917 |
| | 09181 | 09182 | 09189 | 0919 | 0920 | 0929 | 0930 | 0931 | 09320 | 09321 | 09322 | 09323 |
| | 09324 | 09381 | 09382 | 09389 | 0939 | 0940 | 0941 | 0942 | 0943 | 09481 | 09482 | 09483 |
| | 09484 | 09485 | 09486 | 09487 | 09489 | 0949 | 0950 | 0951 | 0952 | 0953 | 0954 | 0955 |
| | 0956 | 0957 | 0958 | 0959 | 096 | 0970 | 0971 | 0979 | 0980 | 09810 | 09811 | 09812 |
| | 09813 | 09814 | 09815 | 09816 | 09817 | 09819 | 0982 | 09830 | 09831 | 09832 | 09833 | 09834 |
| | 09835 | 09836 | 09837 | 09839 | 09840 | 09841 | 09842 | 09843 | 09849 | 09850 | 09851 | 09852 |
| | 09853 | 09859 | 0986 | 0987 | 09881 | 09882 | 09883 | 09884 | 09885 | 09886 | 09889 | 0990 |
| | 0991 | 0992 | 0993 | 0994 | 09940 | 09941 | 09949 | 09950 | 09951 | 09952 | 09953 | 09954 |
| | 09955 | 09956 | 09959 | 0998 | 0999 | 79505 | 79515 | 79519 | 79675 | 79679 | | |
| 10 | Immunizations and screening for infectious disease | | | | | | | | | | | |
| | 79551 | 79552 | 7956 | 79579 | V010 | V011 | V012 | V013 | V014 | V015 | V016 | V017 |
| | V0171 | V0179 | V018 | V0181 | V0182 | V0183 | V0184 | V0189 | V019 | V020 | V021 | V022 |
| | V023 | V024 | V025 | V0251 | V0252 | V0253 | V0254 | V0259 | V026 | V0260 | V0261 | V0262 |
| | V0269 | V027 | V028 | V029 | V030 | V031 | V032 | V033 | V034 | V035 | V036 | V037 |
| | V038 | V0381 | V0382 | V0389 | V039 | V040 | V041 | V042 | V043 | V044 | V045 | V046 |
| | V047 | V048 | V0481 | V0482 | V0489 | V050 | V051 | V052 | V053 | V054 | V058 | V059 |
| | V060 | V061 | V062 | V063 | V064 | V065 | V066 | V068 | V069 | V286 | V712 | V7182 |
| | V7183 | V731 | V732 | V733 | V734 | V735 | V736 | V738 | V7381 | V7388 | V7389 | V739 |
| | V7398 | V730 | V7399 | V740 | V741 | V742 | V743 | V744 | V745 | V746 | V748 | V749 |
| | V750 | V751 | V752 | V753 | V754 | V755 | V756 | V757 | V758 | V759 | | |
| 11 | Cancer of head and neck | | | | | | | | | | | |
| | 1400 | 1401 | 1403 | 1404 | 1405 | 1406 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 |
| | 1414 | 1415 | 1416 | 1418 | 1419 | 1420 | 1421 | 1422 | 1428 | 1429 | 1430 | 1431 |
| | 1438 | 1439 | 1440 | 1441 | 1448 | 1449 | 1450 | 1451 | 1452 | 1453 | 1454 | 1455 |
| | 1456 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 | 1467 | 1468 |
| | 1469 | 1470 | 1471 | 1472 | 1473 | 1478 | 1479 | 1480 | 1481 | 1482 | 1483 | 1488 |
| | 1489 | 1490 | 1491 | 1498 | 1499 | 1600 | 1601 | 1602 | 1603 | 1604 | 1605 | 1608 |
| | 1609 | 1610 | 1611 | 1612 | 1613 | 1618 | 1619 | 1950 | 2300 | 2310 | V1001 | V1002 |
| | V1021 | | | | | | | | | | | |
| 12 | Cancer of esophagus | | | | | | | | | | | |
| | 1500 | 1501 | 1502 | 1503 | 1504 | 1505 | 1508 | 1509 | 2301 | V1003 | | |
| 13 | Cancer of stomach | | | | | | | | | | | |
| | 1510 | 1511 | 1512 | 1513 | 1514 | 1515 | 1516 | 1518 | 1519 | 20923 | 2302 | V1004 |
| 14 | Cancer of colon | | | | | | | | | | | |
| | 1530 | 1531 | 1532 | 1533 | 1534 | 1535 | 1536 | 1537 | 1538 | 1539 | 1590 | 20910 |
| | 20911 | 20912 | 20913 | 20914 | 20915 | 20916 | 2303 | V1005 | | | | |
| 15 | Cancer of rectum and anus | | | | | | | | | | | |
| | 1540 | 1541 | 1542 | 1543 | 1548 | 20917 | 2304 | 2305 | 2306 | 79670 | 79671 | 79672 |
| | 79673 | 79674 | 79676 | V1006 | | | | | | | | |
| 16 | Cancer of liver and intrahepatic bile duct | | | | | | | | | | | |
| | 1550 | 1551 | 1552 | 2308 | V1007 | | | | | | | |

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|-----------|----------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 17 | Cancer of pancreas | | | | | | | | | | |
| | 1570 | 1571 | 1572 | 1573 | 1574 | 1578 | 1579 | | | | |
| 18 | Cancer of other GI organs; peritoneum | | | | | | | | | | |
| | 1520 | 1521 | 1522 | 1523 | 1528 | 1529 | 1560 | 1561 | 1562 | 1568 | 1569 |
| | 1588 | 1589 | 1591 | 1598 | 1599 | 20900 | 20901 | 20902 | 20903 | 2307 | 2309 |
| | V1009 | | | | | | | | | | V1000 |
| 19 | Cancer of bronchus; lung | | | | | | | | | | |
| | 1622 | 1623 | 1624 | 1625 | 1628 | 1629 | 20921 | 2312 | V1011 | | |
| 20 | Cancer; other respiratory and intrathoracic | | | | | | | | | | |
| | 1620 | 1630 | 1631 | 1638 | 1639 | 1650 | 1658 | 1659 | 2311 | 2318 | 2319 |
| | V1020 | V1022 | | | | | | | | | V1012 |
| 21 | Cancer of bone and connective tissue | | | | | | | | | | |
| | 1700 | 1701 | 1702 | 1703 | 1704 | 1705 | 1706 | 1707 | 1708 | 1709 | 1710 |
| | 1713 | 1714 | 1715 | 1716 | 1717 | 1718 | 1719 | | | | 1712 |
| 22 | Melanomas of skin | | | | | | | | | | |
| | 1720 | 1721 | 1722 | 1723 | 1724 | 1725 | 1726 | 1727 | 1728 | 1729 | V1082 |
| 23 | Other non-epithelial cancer of skin | | | | | | | | | | |
| | 17300 | 17301 | 17302 | 17309 | 17310 | 17311 | 17312 | 17319 | 17320 | 17321 | 17322 |
| | 17332 | 17339 | 17340 | 17341 | 17342 | 17349 | 17350 | 17351 | 17352 | 17359 | 17360 |
| | 17362 | 17369 | 17370 | 17371 | 17372 | 17379 | 17380 | 17381 | 17382 | 17389 | 17390 |
| | 17392 | 17399 | 20931 | 20932 | 20933 | 20934 | 20935 | 20936 | 2320 | 2321 | 2322 |
| | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | V1083 | | | | 2323 |
| 24 | Cancer of breast | | | | | | | | | | |
| | 1740 | 1741 | 1742 | 1743 | 1744 | 1745 | 1746 | 1748 | 1749 | 1750 | 1759 |
| | V103 | | | | | | | | | | 2330 |
| 25 | Cancer of uterus | | | | | | | | | | |
| | 179 | 1820 | 1821 | 1828 | 2332 | V1042 | | | | | |
| 26 | Cancer of cervix | | | | | | | | | | |
| | 1800 | 1801 | 1808 | 1809 | 2331 | 7950 | 79501 | 79502 | 79503 | 79504 | V1041 |
| 27 | Cancer of ovary | | | | | | | | | | |
| | 1830 | V1043 | | | | | | | | | |
| 28 | Cancer of other female genital organs | | | | | | | | | | |
| | 181 | 1832 | 1833 | 1834 | 1835 | 1838 | 1839 | 1840 | 1841 | 1842 | 1843 |
| | 1848 | 1849 | 2333 | 23330 | 23331 | 23332 | 23339 | 79516 | V1040 | V1044 | 1844 |
| 29 | Cancer of prostate | | | | | | | | | | |
| | 185 | 2334 | V1046 | | | | | | | | |
| 30 | Cancer of testis | | | | | | | | | | |
| | 1860 | 1869 | V1047 | | | | | | | | |

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|-------|-------------------------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 31 | Cancer of other male genital organs | | | | | | | | | | | | |
| | 1871 V1048 | 1872 V1049 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | 2335 | 2336 | V1045 | |
| 32 | Cancer of bladder | | | | | | | | | | | | |
| | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 2337 | V1051 | |
| 33 | Cancer of kidney and renal pelvis | | | | | | | | | | | | |
| | 1890 | 1891 | 20924 | V1052 | V1053 | | | | | | | | |
| 34 | Cancer of other urinary organs | | | | | | | | | | | | |
| | 1892 | 1893 | 1894 | 1898 | 1899 | 2339 | V1050 | V1059 | | | | | |
| 35 | Cancer of brain and nervous system | | | | | | | | | | | | |
| | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | |
| | 1922 | 1923 | 1928 | 1929 | V1085 | V1086 | | | | | | | |
| 36 | Cancer of thyroid | | | | | | | | | | | | |
| | 193 | 25802 | 25803 | V1087 | | | | | | | | | |
| 37 | Hodgkin`s disease | | | | | | | | | | | | |
| | 20100 | 20101 | 20102 | 20103 | 20104 | 20105 | 20106 | 20107 | 20108 | 20110 | 20111 | 20112 | |
| | 20113 | 20114 | 20115 | 20116 | 20117 | 20118 | 20120 | 20121 | 20122 | 20123 | 20124 | 20125 | |
| | 20126 | 20127 | 20128 | 20140 | 20141 | 20142 | 20143 | 20144 | 20145 | 20146 | 20147 | 20148 | |
| | 20150 | 20151 | 20152 | 20153 | 20154 | 20155 | 20156 | 20157 | 20158 | 20160 | 20161 | 20162 | |
| | 20163 | 20164 | 20165 | 20166 | 20167 | 20168 | 20170 | 20171 | 20172 | 20173 | 20174 | 20175 | |
| | 20176 | 20177 | 20178 | 20190 | 20191 | 20192 | 20193 | 20194 | 20195 | 20196 | 20197 | 20198 | |
| | V1072 | | | | | | | | | | | | |
| 38 | Non-Hodgkin`s lymphoma | | | | | | | | | | | | |
| | 20000 | 20001 | 20002 | 20003 | 20004 | 20005 | 20006 | 20007 | 20008 | 20010 | 20011 | 20012 | |
| | 20013 | 20014 | 20015 | 20016 | 20017 | 20018 | 20020 | 20021 | 20022 | 20023 | 20024 | 20025 | |
| | 20026 | 20027 | 20028 | 20030 | 20031 | 20032 | 20033 | 20034 | 20035 | 20036 | 20038 | 20041 | |
| | 20042 | 20043 | 20044 | 20045 | 20046 | 20047 | 20048 | 20051 | 20052 | 20053 | 20054 | 20055 | |
| | 20056 | 20057 | 20058 | 20060 | 20061 | 20062 | 20064 | 20065 | 20066 | 20067 | 20068 | 20070 | |
| | 20071 | 20072 | 20073 | 20074 | 20075 | 20076 | 20077 | 20078 | 20080 | 20081 | 20082 | 20083 | |
| | 20084 | 20085 | 20086 | 20087 | 20088 | 20200 | 20201 | 20202 | 20203 | 20204 | 20205 | 20206 | |
| | 20207 | 20208 | 20210 | 20211 | 20212 | 20213 | 20214 | 20215 | 20216 | 20217 | 20218 | 20220 | |
| | 20221 | 20222 | 20223 | 20224 | 20225 | 20226 | 20227 | 20228 | 20270 | 20271 | 20272 | 20273 | |
| | 20274 | 20275 | 20276 | 20277 | 20278 | 20280 | 20281 | 20282 | 20283 | 20284 | 20285 | 20286 | |
| | 20287 | 20288 | 20290 | 20291 | 20292 | 20293 | 20294 | 20295 | 20296 | 20297 | 20298 | V1071 | |
| | V1079 | | | | | | | | | | | | |
| | 39 | Leukemias | | | | | | | | | | | |
| | | 20240 | 20241 | 20242 | 20243 | 20244 | 20245 | 20246 | 20247 | 20248 | 2031 | 20310 | 20311 |
| | | 20312 | 2040 | 20400 | 20401 | 20402 | 2041 | 20410 | 20411 | 20412 | 2042 | 20420 | 20421 |
| 20422 | | 2048 | 20480 | 20481 | 20482 | 2049 | 20490 | 20491 | 20492 | 2050 | 20500 | 20501 | |
| 2051 | | 20510 | 20511 | 20512 | 2052 | 20520 | 20521 | 2053 | 20530 | 20531 | 2058 | 20580 | |
| 20581 | | 20582 | 2059 | 20590 | 20591 | 2060 | 20600 | 20601 | 20602 | 2061 | 20610 | 20611 | |
| 20612 | | 2062 | 20620 | 20621 | 20622 | 2068 | 20680 | 20681 | 20682 | 2069 | 20690 | 20691 | |
| 20692 | | 2070 | 20700 | 20701 | 20702 | 2071 | 20710 | 20711 | 20712 | 2072 | 20720 | 20721 | |
| 20722 | | 2078 | 20780 | 20781 | 20782 | 2080 | 20800 | 20801 | 2081 | 20810 | 20811 | 20812 | |
| 2082 | | 20820 | 20821 | 20822 | 2088 | 20880 | 20881 | 20882 | 2089 | 20890 | 20891 | 20892 | |
| V1060 | | V1061 | V1062 | V1063 | V1069 | | | | | | | | |

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|-----------|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 40 | Multiple myeloma | | | | | | | | | | |
| | 2030 | 20300 | 20301 | 20302 | 2038 | 20380 | 20381 | | | | |
| 41 | Cancer; other and unspecified primary | | | | | | | | | | |
| | 1640 | 1641 | 1642 | 1643 | 1648 | 1649 | 1760 | 1761 | 1762 | 1763 | 1764 |
| | 1768 | 1769 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 |
| | 1940 | 1941 | 1943 | 1944 | 1945 | 1946 | 1948 | 1949 | 1951 | 1952 | 1953 |
| | 1955 | 1958 | 20230 | 20231 | 20232 | 20233 | 20234 | 20235 | 20236 | 20237 | 20238 |
| | 20251 | 20252 | 20253 | 20254 | 20255 | 20256 | 20257 | 20258 | 20260 | 20261 | 20262 |
| | 20264 | 20265 | 20266 | 20267 | 20268 | 20922 | 20925 | 20926 | 20927 | 2340 | 2348 |
| | 7951 | 79511 | 79512 | 79513 | V1029 | V1081 | V1084 | V1088 | V1089 | V109 | V1091 |
| | | | | | | | | | | V1099 | V711 |
| 42 | Secondary malignancies | | | | | | | | | | |
| | 1960 | 1961 | 1962 | 1963 | 1965 | 1966 | 1968 | 1969 | 1970 | 1971 | 1972 |
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| | 1987 | 19881 | 19882 | 19889 | 20971 | 20972 | 20973 | 20974 | 51181 | 78951 | 1986 |
| 43 | Malignant neoplasm without specification of site | | | | | | | | | | |
| | 1990 | 1991 | 1992 | 20920 | 20929 | 20930 | 20970 | 20975 | 20979 | | |
| 44 | Neoplasms of unspecified nature or uncertain behavior | | | | | | | | | | |
| | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 |
| | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 23690 | 23691 | 23699 | 2370 | 2371 |
| | 2373 | 2374 | 2375 | 2376 | 2377 | 23770 | 23771 | 23772 | 23773 | 23779 | 2379 |
| | 2381 | 2382 | 2383 | 2384 | 2385 | 2386 | 2387 | 23877 | 2388 | 2389 | 2390 |
| | 2392 | 2393 | 2394 | 2395 | 2396 | 2397 | 2398 | 23981 | 23989 | 2399 | 2361 |
| | | | | | | | | | | | 2372 |
| | | | | | | | | | | | 2380 |
| | | | | | | | | | | | 2391 |
| 45 | Maintenance chemotherapy; radiotherapy | | | | | | | | | | |
| | V580 | V581 | V5811 | V5812 | V661 | V662 | V671 | V672 | | | |
| 46 | Benign neoplasm of uterus | | | | | | | | | | |
| | 2180 | 2181 | 2182 | 2189 | 2190 | 2191 | 2198 | 2199 | | | |
| 47 | Other and unspecified benign neoplasm | | | | | | | | | | |
| | 20940 | 20941 | 20942 | 20943 | 20950 | 20951 | 20952 | 20953 | 20954 | 20955 | 20956 |
| | 20960 | 20961 | 20962 | 20963 | 20964 | 20965 | 20966 | 20967 | 20969 | 2100 | 2101 |
| | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 |
| | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 |
| | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 |
| | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2148 | 2149 | 2150 | 2152 | 2153 |
| | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 |
| | 2167 | 2168 | 2169 | 217 | 220 | 2210 | 2211 | 2212 | 2218 | 2219 | 2220 |
| | 2222 | 2223 | 2224 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 22381 | 22389 |
| | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 |
| | 2252 | 2253 | 2254 | 2258 | 2259 | 226 | 2270 | 2271 | 2273 | 2274 | 2275 |
| | 2278 | 2279 | 22800 | 22801 | 22802 | 22803 | 22804 | 22809 | 2281 | 2290 | 2298 |
| | V1272 | | | | | | | | | | 2299 |
| 48 | Thyroid disorders | | | | | | | | | | |
| | 2400 | 2409 | 2410 | 2411 | 2419 | 24200 | 24201 | 24210 | 24211 | 24220 | 24221 |
| | 24231 | 24240 | 24241 | 24280 | 24281 | 24290 | 24291 | 243 | 2440 | 2441 | 2442 |
| | 2448 | 2449 | 2450 | 2451 | 2452 | 2453 | 2454 | 2458 | 2459 | 2460 | 2461 |
| | 2463 | 2468 | 2469 | 7945 | | | | | | | 2462 |

| | | | | | | | | | | | | |
|----|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 49 | Diabetes mellitus without complication | | | | | | | | | | | |
| | 24900 | 25000 | 25001 | 7902 | 79021 | 79022 | 79029 | 7915 | 7916 | V4585 | V5391 | V6546 |
| 50 | Diabetes mellitus with complications | | | | | | | | | | | |
| | 24901 | 24910 | 24911 | 24920 | 24921 | 24930 | 24931 | 24940 | 24941 | 24950 | 24951 | 24960 |
| | 24961 | 24970 | 24971 | 24980 | 24981 | 24990 | 24991 | 25002 | 25003 | 25010 | 25011 | 25012 |
| | 25013 | 25020 | 25021 | 25022 | 25023 | 25030 | 25031 | 25032 | 25033 | 25040 | 25041 | 25042 |
| | 25043 | 25050 | 25051 | 25052 | 25053 | 25060 | 25061 | 25062 | 25063 | 25070 | 25071 | 25072 |
| | 25073 | 25080 | 25081 | 25082 | 25083 | 25090 | 25091 | 25092 | 25093 | | | |
| 51 | Other endocrine disorders | | | | | | | | | | | |
| | 2510 | 2511 | 2512 | 2513 | 2514 | 2515 | 2518 | 2519 | 2520 | 25200 | 25201 | 25202 |
| | 25208 | 2521 | 2528 | 2529 | 2530 | 2531 | 2532 | 2533 | 2534 | 2535 | 2536 | 2537 |
| | 2538 | 2539 | 2540 | 2541 | 2548 | 2549 | 2550 | 2551 | 25510 | 25511 | 25512 | 25513 |
| | 25514 | 2552 | 2553 | 2554 | 25541 | 25542 | 2555 | 2556 | 2558 | 2559 | 2560 | 2561 |
| | 2562 | 2563 | 2564 | 2568 | 2569 | 2570 | 2571 | 2572 | 2578 | 2579 | 2580 | 25801 |
| | 2581 | 2588 | 2589 | 2590 | 2591 | 2592 | 2593 | 2594 | 2595 | 25950 | 25951 | 25952 |
| | 2598 | 2599 | 7946 | | | | | | | | | |
| 52 | Nutritional deficiencies | | | | | | | | | | | |
| | 260 | 261 | 262 | 2630 | 2631 | 2632 | 2638 | 2639 | 2640 | 2641 | 2642 | 2643 |
| | 2644 | 2645 | 2646 | 2647 | 2648 | 2649 | 2650 | 2651 | 2652 | 2660 | 2661 | 2662 |
| | 2669 | 267 | 2680 | 2681 | 2682 | 2689 | 2690 | 2691 | 2692 | 2693 | 2698 | 2699 |
| | 7994 | V121 | | | | | | | | | | |
| 53 | Disorders of lipid metabolism | | | | | | | | | | | |
| | 2720 | 2721 | 2722 | 2723 | 2724 | | | | | | | |
| 54 | Gout and other crystal arthropathies | | | | | | | | | | | |
| | 2740 | 27403 | 27410 | 27411 | 27419 | 27481 | 27482 | 27489 | 2749 | 71210 | 71211 | 71212 |
| | 71213 | 71214 | 71215 | 71216 | 71217 | 71218 | 71219 | 71220 | 71221 | 71222 | 71223 | 71224 |
| | 71225 | 71226 | 71227 | 71228 | 71229 | 71230 | 71231 | 71232 | 71233 | 71234 | 71235 | 71236 |
| | 71237 | 71238 | 71239 | 71280 | 71281 | 71282 | 71283 | 71284 | 71285 | 71286 | 71287 | 71288 |
| | 71289 | 71290 | 71291 | 71292 | 71293 | 71294 | 71295 | 71296 | 71297 | 71298 | 71299 | |
| 55 | Fluid and electrolyte disorders | | | | | | | | | | | |
| | 2760 | 2761 | 2762 | 2763 | 2764 | 2765 | 27650 | 27651 | 27652 | 2766 | 27669 | 2767 |
| | 2768 | 2769 | 9951 | | | | | | | | | |
| 56 | Cystic fibrosis | | | | | | | | | | | |
| | 27700 | 27701 | 27702 | 27703 | 27709 | | | | | | | |
| 57 | Immunity disorders | | | | | | | | | | | |
| | 27900 | 27901 | 27902 | 27903 | 27904 | 27905 | 27906 | 27909 | 27911 | 27912 | 27913 | 2792 |
| | 2793 | 2794 | 27949 | 2798 | 2799 | | | | | | | |
| 58 | Other nutritional; endocrine; and metabolic disorders | | | | | | | | | | | |
| | 2700 | 2701 | 2702 | 2703 | 2704 | 2705 | 2706 | 2707 | 2708 | 2709 | 2710 | 2711 |
| | 2712 | 2713 | 2714 | 2718 | 2719 | 2725 | 2726 | 2727 | 2728 | 2729 | 2730 | 2731 |
| | 2732 | 2733 | 2734 | 2738 | 2739 | 2750 | 27503 | 27509 | 2751 | 2752 | 2753 | 2754 |
| | 27540 | 27541 | 27542 | 27549 | 2758 | 2759 | 2771 | 2772 | 2773 | 2774 | 2775 | 2776 |
| | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------|------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2777 | 2778 | 27781 | 27782 | 27784 | 27785 | 27786 | 27787 | 27789 | 2779 | 2780 | 27800 |
| | 27801 | 27802 | 27803 | 2781 | 2782 | 2783 | 2784 | 2788 | 7831 | 7832 | 78321 | 78322 |
| | 7833 | 7834 | 78340 | 78341 | 78342 | 78343 | 7835 | 7837 | 7839 | 7947 | 7957 | V1229 |
| | V850 | V8521 | V8522 | V8523 | V8524 | V8525 | V8530 | V8531 | V8532 | V8533 | V8534 | V8535 |
| | V8536 | V8537 | V8538 | V8539 | V854 | V8541 | V8542 | V8543 | V8544 | V8545 | | |
| 59 | Deficiency and other anemia | | | | | | | | | | | |
| | 2800 | 2801 | 2808 | 2809 | 2810 | 2811 | 2812 | 2813 | 2814 | 2818 | 2819 | 2820 |
| | 2821 | 2822 | 2823 | 2824 | 28240 | 28243 | 28245 | 28246 | 28247 | 28249 | 2827 | 2828 |
| | 2829 | 2830 | 2831 | 28310 | 28311 | 28319 | 2832 | 2839 | 2840 | 28411 | 28412 | 28419 |
| | 2848 | 28481 | 28489 | 2849 | 2850 | 28521 | 28522 | 28529 | 2858 | 2859 | | |
| 60 | Acute posthemorrhagic anemia | | | | | | | | | | | |
| | 2851 | | | | | | | | | | | |
| 61 | Sickle cell anemia | | | | | | | | | | | |
| | 28241 | 28242 | 2825 | 28260 | 28261 | 28262 | 28263 | 28264 | 28268 | 28269 | | |
| 62 | Coagulation and hemorrhagic disorders | | | | | | | | | | | |
| | 2860 | 2861 | 2862 | 2863 | 2864 | 28653 | 2866 | 2867 | 2869 | 2870 | 2871 | 2872 |
| | 2873 | 28730 | 28731 | 28732 | 28733 | 28739 | 2874 | 28749 | 2875 | 2878 | 2879 | 28981 |
| | 28982 | 28984 | 7827 | | | | | | | | | |
| 63 | Diseases of white blood cells | | | | | | | | | | | |
| | 2880 | 2881 | 2882 | 2883 | 28866 | 2888 | 2889 | | | | | |
| 64 | Other hematologic conditions | | | | | | | | | | | |
| | 2890 | 2894 | 28950 | 28951 | 28952 | 28959 | 2896 | 2897 | 2898 | 28989 | 2899 | 7900 |
| | 79001 | 79009 | V123 | V582 | | | | | | | | |
| 76 | Meningitis (except that caused by tuberculosis or sexually transmitted disease) | | | | | | | | | | | |
| | 00321 | 0360 | 0470 | 0471 | 0478 | 0479 | 0490 | 0491 | 0530 | 05472 | 0721 | 10081 |
| | 11283 | 1142 | 11501 | 11511 | 11591 | 3200 | 3201 | 3202 | 3203 | 3207 | 3208 | 32081 |
| | 32082 | 32089 | 3209 | 3210 | 3211 | 3212 | 3213 | 3214 | 3218 | 3220 | 3221 | 3222 |
| | 3229 | | | | | | | | | | | |
| 77 | Encephalitis (except that caused by tuberculosis or sexually transmitted disease) | | | | | | | | | | | |
| | 0361 | 0462 | 0498 | 0499 | 0520 | 0543 | 0550 | 05601 | 05821 | 05829 | 0620 | 0621 |
| | 0622 | 0623 | 0624 | 0625 | 0628 | 0629 | 0630 | 0631 | 0632 | 0638 | 0639 | 064 |
| | 0662 | 06641 | 0722 | 1300 | 1390 | 3230 | 3231 | 3232 | 3234 | 3235 | 3236 | 3237 |
| | 3238 | 3239 | | | | | | | | | | |
| 78 | Other CNS infection and poliomyelitis | | | | | | | | | | | |
| | 04500 | 04501 | 04502 | 04503 | 04510 | 04511 | 04512 | 04513 | 04520 | 04521 | 04522 | 04523 |
| | 04590 | 04591 | 04592 | 04593 | 0460 | 0461 | 04611 | 04619 | 0463 | 04671 | 04672 | 04679 |
| | 0468 | 0469 | 048 | 138 | 3240 | 3241 | 3249 | 326 | V1202 | | | |
| 79 | Parkinson`s disease | | | | | | | | | | | |
| | 3320 | | | | | | | | | | | |
| 80 | Multiple sclerosis | | | | | | | | | | | |
| | 340 | | | | | | | | | | | |

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|-----------|--------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 81 | Other hereditary and degenerative nervous system conditions | | | | | | | | | | | |
| | 3300 | 3301 | 3302 | 3303 | 3308 | 3309 | 3313 | 3314 | 3315 | 3316 | 3317 | 33181 |
| | 33189 | 3319 | 3330 | 3331 | 3332 | 3333 | 3334 | 3335 | 3336 | 3337 | 33381 | 33382 |
| | 33383 | 33384 | 33389 | 33390 | 33391 | 33392 | 33393 | 33399 | 3340 | 3341 | 3342 | 3343 |
| | 3344 | 3348 | 3349 | 3350 | 33510 | 33511 | 33519 | 33520 | 33521 | 33522 | 33523 | 33524 |
| | 33529 | 3358 | 3359 | 3360 | 3361 | 3362 | 3363 | 3368 | 3369 | 3370 | 33700 | 33701 |
| | 3371 | 3373 | 3379 | | | | | | | | | |
| 82 | Paralysis | | | | | | | | | | | |
| | 3420 | 34200 | 34201 | 34202 | 3421 | 34210 | 34211 | 34212 | 34280 | 34281 | 34282 | 3429 |
| | 34290 | 34291 | 34292 | 3430 | 3431 | 3432 | 3433 | 3434 | 3438 | 3439 | 3440 | 34400 |
| | 34401 | 34402 | 34403 | 34404 | 34409 | 3441 | 3442 | 3443 | 34430 | 34431 | 34432 | 3444 |
| | 34440 | 34441 | 34442 | 3445 | 34460 | 3448 | 34481 | 34489 | 3449 | 7814 | 78072 | |
| 83 | Epilepsy; convulsions | | | | | | | | | | | |
| | 3450 | 34500 | 34501 | 3451 | 34510 | 34511 | 3452 | 3453 | 3454 | 34540 | 34541 | 3455 |
| | 34550 | 34551 | 3456 | 34560 | 34561 | 3457 | 34570 | 34571 | 3458 | 34580 | 34581 | 3459 |
| | 34590 | 34591 | 7803 | 78031 | 78039 | | | | | | | |
| 84 | Headache; including migraine | | | | | | | | | | | |
| | 33900 | 33901 | 33902 | 33903 | 33904 | 33905 | 33909 | 33910 | 33911 | 33912 | 33920 | 33921 |
| | 33922 | 3393 | 33941 | 33942 | 33943 | 33944 | 33981 | 33982 | 33983 | 33984 | 33985 | 33989 |
| | 3460 | 34600 | 34601 | 34602 | 34603 | 3461 | 34612 | 34613 | 34610 | 34611 | 3462 | 34620 |
| | 34621 | 34622 | 34623 | 34630 | 34631 | 34632 | 34633 | 34640 | 34642 | 34643 | 34651 | 34652 |
| | 34653 | 34670 | 34671 | 34672 | 34673 | 3468 | 34680 | 34681 | 34682 | 34683 | 3469 | 34690 |
| | 34691 | 7840 | | | | | | | | | | |
| 85 | Coma; stupor; and brain damage | | | | | | | | | | | |
| | 3481 | 7800 | 78001 | 78003 | 78009 | | | | | | | |
| 86 | Cataract | | | | | | | | | | | |
| | 36600 | 36601 | 36602 | 36603 | 36604 | 36609 | 36610 | 36611 | 36612 | 36613 | 36614 | 36615 |
| | 36616 | 36617 | 36618 | 36619 | 36620 | 36621 | 36622 | 36623 | 36630 | 36631 | 36632 | 36633 |
| | 36634 | 36641 | 36642 | 36643 | 36644 | 36645 | 36646 | 36650 | 36651 | 36652 | 36653 | 3668 |
| | 3669 | V431 | | | | | | | | | | |
| 87 | Retinal detachments; defects; vascular occlusion; and retinopathy | | | | | | | | | | | |
| | 36100 | 36101 | 36102 | 36103 | 36104 | 36105 | 36106 | 36107 | 36110 | 36111 | 36112 | 36113 |
| | 36114 | 36119 | 3612 | 36130 | 36131 | 36132 | 36133 | 36181 | 36189 | 3619 | 36201 | 36202 |
| | 36203 | 36204 | 36205 | 36206 | 36207 | 36210 | 36211 | 36212 | 36213 | 36214 | 36215 | 36216 |
| | 36217 | 36218 | 36221 | 36222 | 36223 | 36224 | 36225 | 36226 | 36227 | 36229 | 36230 | 36231 |
| | 36232 | 36233 | 36234 | 36235 | 36236 | 36237 | 36240 | 36241 | 36242 | 36243 | 36250 | 36251 |
| | 36252 | 36253 | 36254 | 36255 | 36256 | 36257 | 36260 | 36261 | 36262 | 36263 | 36264 | 36265 |
| | 36266 | 36270 | 36271 | 36272 | 36273 | 36274 | 36275 | 36276 | 36277 | 36281 | 36282 | 36283 |
| | 36284 | 36285 | 36289 | 3629 | | | | | | | | |
| 88 | Glaucoma | | | | | | | | | | | |
| | 36500 | 36501 | 36502 | 36503 | 36504 | 36506 | 36510 | 36511 | 36512 | 36513 | 36514 | 36515 |
| | 36520 | 36521 | 36522 | 36523 | 36524 | 36531 | 36532 | 36541 | 36542 | 36543 | 36544 | 36551 |
| | 36552 | 36559 | 36560 | 36561 | 36562 | 36563 | 36564 | 36565 | 36570 | 36571 | 36572 | 36573 |
| | 36574 | 36581 | 36582 | 36583 | 36589 | 3659 | | | | | | |
| 89 | Blindness and vision defects | | | | | | | | | | | |
| | 3670 | 3671 | 36720 | 36721 | 36722 | 36731 | 36732 | 3674 | 36751 | 36752 | 36753 | 36781 |

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|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36789 | 3679 | 36800 | 36801 | 36802 | 36803 | 36810 | 36811 | 36812 | 36813 | 36814 | 36815 |
| 36816 | 3682 | 36830 | 36831 | 36832 | 36833 | 36834 | 36840 | 36841 | 36842 | 36843 | 36844 |
| 36845 | 36846 | 36847 | 36851 | 36852 | 36853 | 36854 | 36855 | 36859 | 36860 | 36861 | 36862 |
| 36863 | 36869 | 3688 | 3689 | 36900 | 36901 | 36902 | 36903 | 36904 | 36905 | 36906 | 36907 |
| 36908 | 36910 | 36911 | 36912 | 36913 | 36914 | 36915 | 36916 | 36917 | 36918 | 36920 | 36921 |
| 36922 | 36923 | 36924 | 36925 | 3693 | 3694 | 36960 | 36961 | 36962 | 36963 | 36964 | 36965 |
| 36966 | 36967 | 36968 | 36969 | 36970 | 36971 | 36972 | 36973 | 36974 | 36975 | 36976 | 3698 |
| 3699 | V410 | | | | | | | | | | |

90 Inflammation; infection of eye (except that caused by tuberculosis or sexually transmitted disease)

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0213 | 03281 | 05320 | 05321 | 05322 | 05329 | 05440 | 05441 | 05442 | 05443 | 05444 | 05449 |
| 05571 | 0760 | 0761 | 0769 | 0770 | 0771 | 0772 | 0773 | 0774 | 0778 | 0779 | 07798 |
| 07799 | 11502 | 11512 | 11592 | 1301 | 1302 | 1391 | 36000 | 36001 | 36002 | 36003 | 36004 |
| 36011 | 36012 | 36013 | 36014 | 36019 | 36300 | 36301 | 36303 | 36304 | 36305 | 36306 | 36307 |
| 36308 | 36310 | 36311 | 36312 | 36313 | 36314 | 36315 | 36320 | 36321 | 36322 | 36400 | 36401 |
| 36402 | 36403 | 36404 | 36405 | 36410 | 36411 | 36421 | 36422 | 36423 | 36424 | 3643 | 37020 |
| 37021 | 37022 | 37023 | 37024 | 37031 | 37032 | 37033 | 37034 | 37035 | 37040 | 37044 | 37049 |
| 37050 | 37052 | 37054 | 37055 | 37059 | 3708 | 3709 | 37200 | 37201 | 37202 | 37203 | 37204 |
| 37205 | 37206 | 37210 | 37211 | 37212 | 37213 | 37214 | 37215 | 37220 | 37221 | 37222 | 37230 |
| 37231 | 37233 | 37239 | 37300 | 37301 | 37302 | 37311 | 37312 | 37313 | 37331 | 37332 | 37333 |
| 37334 | 3734 | 3735 | 3736 | 3738 | 3739 | 37500 | 37501 | 37502 | 37503 | 37530 | 37531 |
| 37532 | 37533 | 37541 | 37542 | 37543 | 37600 | 37601 | 37602 | 37603 | 37604 | 37610 | 37611 |
| 37612 | 37613 | 37730 | 37731 | 37732 | 37733 | 37734 | 37739 | 37900 | 37901 | 37902 | 37903 |
| 37904 | 37905 | 37906 | 37907 | 37909 | | | | | | | |

91 Other eye disorders

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36020 | 36021 | 36023 | 36024 | 36029 | 36030 | 36031 | 36032 | 36033 | 36034 | 36040 | 36041 |
| 36042 | 36043 | 36044 | 36050 | 36051 | 36052 | 36053 | 36054 | 36055 | 36059 | 36060 | 36061 |
| 36062 | 36063 | 36064 | 36065 | 36069 | 36081 | 36089 | 3609 | 36330 | 36331 | 36332 | 36333 |
| 36334 | 36335 | 36340 | 36341 | 36342 | 36343 | 36350 | 36351 | 36352 | 36353 | 36354 | 36355 |
| 36356 | 36357 | 36361 | 36362 | 36363 | 36370 | 36371 | 36372 | 3638 | 3639 | 36441 | 36442 |
| 36451 | 36452 | 36453 | 36454 | 36455 | 36456 | 36457 | 36459 | 36460 | 36461 | 36462 | 36463 |
| 36464 | 36470 | 36471 | 36472 | 36473 | 36474 | 36475 | 36476 | 36477 | 3648 | 36481 | 36482 |
| 3649 | 37000 | 37001 | 37002 | 37003 | 37004 | 37005 | 37006 | 37007 | 37060 | 37061 | 37062 |
| 37063 | 37064 | 37100 | 37101 | 37102 | 37103 | 37104 | 37105 | 37110 | 37111 | 37112 | 37113 |
| 37114 | 37115 | 37116 | 37120 | 37121 | 37122 | 37123 | 37124 | 37130 | 37131 | 37132 | 37133 |
| 37140 | 37141 | 37142 | 37143 | 37144 | 37145 | 37146 | 37148 | 37149 | 37150 | 37151 | 37152 |
| 37153 | 37154 | 37155 | 37156 | 37157 | 37158 | 37160 | 37161 | 37162 | 37170 | 37171 | 37172 |
| 37173 | 37181 | 37182 | 37189 | 3719 | 37234 | 37240 | 37241 | 37242 | 37243 | 37244 | 37245 |
| 37250 | 37251 | 37252 | 37253 | 37254 | 37255 | 37256 | 37261 | 37262 | 37263 | 37264 | 37271 |
| 37272 | 37273 | 37274 | 37275 | 3728 | 37281 | 37289 | 3729 | 3732 | 37400 | 37401 | 37402 |
| 37403 | 37404 | 37405 | 37410 | 37411 | 37412 | 37413 | 37414 | 37420 | 37421 | 37422 | 37423 |
| 37430 | 37431 | 37432 | 37433 | 37434 | 37441 | 37443 | 37444 | 37445 | 37446 | 37450 | 37451 |
| 37452 | 37453 | 37454 | 37455 | 37456 | 37481 | 37482 | 37483 | 37484 | 37485 | 37486 | 37487 |
| 37489 | 3749 | 37511 | 37512 | 37513 | 37514 | 37515 | 37516 | 37520 | 37521 | 37522 | 37551 |
| 37552 | 37553 | 37554 | 37555 | 37556 | 37557 | 37561 | 37569 | 37581 | 37589 | 3759 | 37621 |
| 37622 | 37630 | 37631 | 37632 | 37633 | 37634 | 37635 | 37636 | 37640 | 37641 | 37642 | 37643 |
| 37644 | 37645 | 37646 | 37647 | 37650 | 37651 | 37652 | 3766 | 37681 | 37682 | 37689 | 3769 |
| 37700 | 37701 | 37702 | 37703 | 37704 | 37710 | 37711 | 37712 | 37713 | 37714 | 37715 | 37716 |
| 37721 | 37722 | 37723 | 37724 | 37741 | 37742 | 37749 | 37751 | 37752 | 37753 | 37754 | 37761 |
| 37762 | 37763 | 37771 | 37772 | 37773 | 37775 | 3779 | 37800 | 37801 | 37802 | 37803 | 37804 |
| 37805 | 37806 | 37807 | 37808 | 37810 | 37811 | 37812 | 37813 | 37814 | 37815 | 37816 | 37817 |
| 37818 | 37820 | 37821 | 37822 | 37823 | 37824 | 37830 | 37831 | 37832 | 37833 | 37834 | 37835 |

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|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 37840 | 37841 | 37842 | 37843 | 37844 | 37845 | 37850 | 37851 | 37852 | 37853 | 37854 | 37855 |
| 37856 | 37860 | 37861 | 37862 | 37863 | 37871 | 37872 | 37873 | 37881 | 37882 | 37883 | 37884 |
| 37885 | 37886 | 37887 | 3789 | 37911 | 37912 | 37913 | 37914 | 37915 | 37916 | 37919 | 37921 |
| 37922 | 37923 | 37924 | 37925 | 37926 | 37927 | 37929 | 37931 | 37932 | 37933 | 37934 | 37939 |
| 37940 | 37941 | 37942 | 37943 | 37945 | 37946 | 37949 | 37950 | 37951 | 37952 | 37953 | 37954 |
| 37955 | 37956 | 37957 | 37958 | 37959 | 3798 | 37990 | 37991 | 37992 | 37993 | 37999 | 78193 |
| V411 | V425 | V430 | V456 | V4561 | V4569 | V522 | V531 | V720 | | | |

92 Otitis media and related conditions

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0552 | 38100 | 38101 | 38102 | 38103 | 38104 | 38105 | 38106 | 38110 | 38119 | 38120 | 38129 |
| 3813 | 3814 | 38150 | 38151 | 38152 | 38160 | 38161 | 38162 | 38163 | 3817 | 38181 | 38189 |
| 3819 | 38200 | 38201 | 38202 | 3821 | 3822 | 3823 | 3824 | 3829 | 38300 | 38301 | 38302 |
| 3831 | 38320 | 38321 | 38322 | 38330 | 38331 | 38332 | 38333 | 38381 | 38389 | 3839 | 38420 |
| 38421 | 38422 | 38423 | 38424 | 38425 | 38481 | 38482 | 3849 | 38500 | 38501 | 38502 | 38503 |
| 38509 | 38510 | 38511 | 38512 | 38513 | 38519 | 38521 | 38522 | 38523 | 38524 | 3870 | 3871 |
| 3872 | 3878 | 3879 | | | | | | | | | |

93 Conditions associated with dizziness or vertigo

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 38600 | 38601 | 38602 | 38603 | 38604 | 38610 | 38611 | 38612 | 38619 | 3862 | 38630 | 38631 |
| 38632 | 38633 | 38634 | 38635 | 38640 | 38641 | 38642 | 38643 | 38648 | 38650 | 38651 | 38652 |
| 38653 | 38654 | 38655 | 38656 | 38658 | 3868 | 3869 | 7804 | | | | |

94 Other ear and sense organ disorders

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 38000 | 38001 | 38002 | 38003 | 38010 | 38011 | 38012 | 38013 | 38014 | 38015 | 38016 | 38021 |
| 38022 | 38023 | 38030 | 38031 | 38032 | 38039 | 3804 | 38050 | 38051 | 38052 | 38053 | 38081 |
| 38089 | 3809 | 38400 | 38401 | 38409 | 3841 | 38530 | 38531 | 38532 | 38533 | 38535 | 38582 |
| 38583 | 38589 | 3859 | 38800 | 38801 | 38802 | 38810 | 38811 | 38812 | 3882 | 38830 | 38831 |
| 38832 | 38840 | 38841 | 38842 | 38843 | 38844 | 38845 | 3885 | 38860 | 38861 | 38869 | 38870 |
| 38871 | 38872 | 3888 | 3889 | 38900 | 38901 | 38902 | 38903 | 38904 | 38905 | 38906 | 38908 |
| 38910 | 38911 | 38912 | 38913 | 38914 | 38918 | 3892 | 38921 | 38922 | 3897 | 3898 | 3899 |
| V412 | V413 | V4985 | V532 | V721 | | | | | | | |

95 Other nervous system disorders

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 325 | 3321 | 32702 | 32715 | 32730 | 32731 | 32732 | 32733 | 32734 | 32735 | 32736 | 32737 |
| 32739 | 32753 | 33183 | 33720 | 33721 | 33722 | 33729 | 3410 | 3411 | 3418 | 3419 | 34461 |
| 347 | 34700 | 34701 | 34710 | 34711 | 3480 | 3482 | 3483 | 34830 | 34831 | 34839 | 3484 |
| 3485 | 3488 | 34881 | 34882 | 34889 | 3489 | 3492 | 34981 | 34982 | 34989 | 3499 | 3501 |
| 3502 | 3508 | 3509 | 3510 | 3511 | 3518 | 3519 | 3520 | 3521 | 3522 | 3523 | 3524 |
| 3525 | 3526 | 3529 | 3530 | 3531 | 3532 | 3533 | 3534 | 3535 | 3536 | 3538 | 3539 |
| 3540 | 3541 | 3542 | 3543 | 3544 | 3545 | 3548 | 3549 | 3550 | 3551 | 3552 | 3553 |
| 3554 | 3555 | 3556 | 3557 | 35571 | 35579 | 3558 | 3559 | 3560 | 3561 | 3562 | 3563 |
| 3564 | 3568 | 3569 | 3570 | 3571 | 3572 | 3573 | 3574 | 3576 | 3577 | 3578 | 35781 |
| 35782 | 35789 | 3579 | 3580 | 35800 | 35801 | 3581 | 3582 | 35830 | 35839 | 3588 | 3589 |
| 3590 | 3591 | 3592 | 35921 | 35922 | 35923 | 35924 | 35929 | 3593 | 3594 | 3595 | 3596 |
| 35971 | 35979 | 3598 | 35981 | 35989 | 3599 | 7810 | 7811 | 7812 | 7813 | 7817 | 7818 |
| 7820 | 7843 | 7845 | 78451 | 78452 | 78459 | 78460 | 78461 | 78469 | 7920 | 7930 | 79400 |
| 79401 | 79402 | 79409 | 79410 | 79411 | 79412 | 79413 | 79414 | 79415 | 79416 | 79417 | 79419 |
| 7961 | 79951 | 79952 | 79953 | 79954 | 79955 | 79959 | V124 | V1240 | V1241 | V1242 | V1249 |
| V415 | V452 | V484 | V485 | V493 | V530 | V5301 | V5302 | V5309 | | | |

96 Heart valve disorders

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 3940 | 3941 | 3942 | 3949 | 3950 | 3951 | 3952 | 3959 | 3960 | 3961 | 3962 | 3963 |
| 3968 | 3969 | 3970 | 3971 | 3979 | 4240 | 4241 | 4242 | 4243 | 42490 | 42491 | 42499 |

7852 7853 V422 V433

97 Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease)

03282 03640 03641 03642 03643 07420 07421 07422 07423 11281 11503 11504
 11513 11514 11593 11594 1303 3910 3911 3912 3918 3919 3920 393
 3980 39890 39899 4200 42090 42091 42099 4210 4211 4219 4220 42290
 42291 42292 42293 42299 4230 4231 4232 4238 4239 4250 42511 42518
 4252 4253 4254 4257 4258 4259 4290

98 Essential hypertension

4011 4019

99 Hypertension with complications and secondary hypertension

4010 40200 40201 40210 40211 40290 40291 4030 40300 40301 4031 40310
 40311 4039 40390 40391 4040 40400 40401 40402 40403 4041 40410 40411
 40412 40413 4049 40490 40491 40492 40493 40501 40509 40511 40519 40591
 40599 4372

100 Acute myocardial infarction

4100 41000 41001 41002 4101 41010 41011 41012 4102 41020 41021 41022
 4103 41030 41031 41032 4104 41040 41041 41042 4105 41050 41051 41052
 4106 41060 41061 41062 4107 41070 41071 41072 4108 41080 41081 41082
 4109 41090 41091 41092

101 Coronary atherosclerosis and other heart disease

4110 4111 4118 41181 41189 412 4130 4131 4139 4140 41400 41401
 41406 4148 4149 V4581 V4582

102 Nonspecific chest pain

78650 78651 78659

103 Pulmonary heart disease

4150 4151 41512 41513 41519 4160 4161 4162 4168 4169 4170 4171
 4178 4179

104 Other and ill-defined heart disease

41410 41411 41412 41419 4291 4292 4293 4295 4296 42971 42979 42981
 42982 42989 4299

105 Conduction disorders

4260 42610 42611 42612 42613 4262 4263 4264 42650 42651 42652 42653
 42654 4266 4267 42681 42682 42689 4269 V450 V4500 V4501 V4502 V4509
 V533 V5331 V5332 V5339

106 Cardiac dysrhythmias

4270 4271 4272 42731 42732 42760 42761 42769 42781 42789 4279 7850
 7851

107 Cardiac arrest and ventricular fibrillation

42741 42742 4275

| | | | | | | | | | | | |
|------------|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 108 | Congestive heart failure; nonhypertensive | | | | | | | | | | |
| | 39891 | 4280 | 4281 | 42820 | 42821 | 42822 | 42823 | 42830 | 42831 | 42832 | 42833 |
| | 42841 | 42842 | 42843 | 4289 | | | | | | | 42840 |
| 109 | Acute cerebrovascular disease | | | | | | | | | | |
| | 34660 | 34661 | 34662 | 34663 | 430 | 431 | 4320 | 4321 | 4329 | 43301 | 43311 |
| | 43331 | 43381 | 43391 | 4340 | 43400 | 43401 | 4341 | 43410 | 43411 | 4349 | 43490 |
| | 436 | | | | | | | | | | 43491 |
| 110 | Occlusion or stenosis of precerebral arteries | | | | | | | | | | |
| | 4330 | 43300 | 4331 | 43310 | 4332 | 43320 | 4333 | 43330 | 4338 | 43380 | 4339 |
| | | | | | | | | | | | 43390 |
| 111 | Other and ill-defined cerebrovascular disease | | | | | | | | | | |
| | 4370 | 4371 | 4373 | 4374 | 4375 | 4376 | 4377 | 4378 | 4379 | | |
| 112 | Transient cerebral ischemia | | | | | | | | | | |
| | 4350 | 4351 | 4352 | 4353 | 4358 | 4359 | | | | | |
| 113 | Late effects of cerebrovascular disease | | | | | | | | | | |
| | 438 | 4380 | 43810 | 43811 | 43812 | 43813 | 43814 | 43819 | 43820 | 43821 | 43822 |
| | 43831 | 43832 | 43840 | 43841 | 43842 | 43850 | 43851 | 43852 | 43853 | 4386 | 4387 |
| | 43882 | 43883 | 43884 | 43885 | 43889 | 4389 | | | | | 43881 |
| 114 | Peripheral and visceral atherosclerosis | | | | | | | | | | |
| | 4400 | 4401 | 4402 | 44020 | 44021 | 44022 | 44023 | 44029 | 4404 | 4408 | 4409 |
| | 5570 | 5571 | 5579 | | | | | | | | 4439 |
| 115 | Aortic; peripheral; and visceral artery aneurysms | | | | | | | | | | |
| | 4410 | 44100 | 44101 | 44102 | 44103 | 4411 | 4412 | 4413 | 4414 | 4415 | 4416 |
| | 4419 | 4420 | 4421 | 4422 | 4423 | 44281 | 44282 | 44283 | 44284 | 44289 | 4429 |
| | 44322 | 44323 | 44324 | 44329 | 44770 | 44771 | 44772 | 44773 | | | 44321 |
| 116 | Aortic and peripheral arterial embolism or thrombosis | | | | | | | | | | |
| | 44409 | 4441 | 44421 | 44422 | 44481 | 44489 | 4449 | 44501 | 44502 | 44581 | 44589 |
| 117 | Other circulatory disease | | | | | | | | | | |
| | 4430 | 4431 | 44381 | 44382 | 44389 | 4460 | 4461 | 4462 | 44620 | 44621 | 44629 |
| | 4464 | 4465 | 4466 | 4467 | 4470 | 4471 | 4472 | 4473 | 4474 | 4475 | 4476 |
| | 4479 | 4480 | 4481 | 4489 | 4580 | 4581 | 4588 | 4589 | 4590 | 45989 | 4599 |
| | 79430 | 79431 | 79439 | 7962 | V125 | V1250 | V1253 | V1254 | V1259 | V151 | V421 |
| | V4321 | V4322 | V434 | V717 | | | | | | | V432 |
| 118 | Phlebitis; thrombophlebitis and thromboembolism | | | | | | | | | | |
| | 4510 | 45111 | 45119 | 4512 | 45181 | 45182 | 45183 | 45184 | 45189 | 4519 | 452 |
| | 4531 | 4532 | 4533 | 45340 | 45341 | 45342 | 45351 | 45352 | 4536 | 45371 | 45372 |
| | 45374 | 45375 | 45376 | 45377 | 45379 | 4538 | 45382 | 45386 | 45387 | 4539 | V1251 |
| | V1255 | | | | | | | | | | V1252 |
| 119 | Varicose veins of lower extremity | | | | | | | | | | |
| | 4540 | 4541 | 4542 | 4548 | 4549 | | | | | | |
| 120 | Hemorrhoids | | | | | | | | | | |
| | 4550 | 4551 | 4552 | 4553 | 4554 | 4555 | 4556 | 4557 | 4558 | 4559 | |

| | | | | | | | | | | | |
|------------|---------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 121 | Other diseases of veins and lymphatics | | | | | | | | | | |
| | 4563 | 4564 | 4565 | 4566 | 4568 | 4570 | 4571 | 4572 | 4578 | 4579 | 4591 |
| | 45910 | 45911 | 45912 | 45913 | 45919 | 4592 | 45930 | 45931 | 45932 | 45933 | 45939 |
| | | | | | | | | | | 45981 | |
| 122 | Pneumonia (except that caused by tuberculosis or sexually transmitted disease) | | | | | | | | | | |
| | 00322 | 0203 | 0204 | 0205 | 0212 | 0221 | 0310 | 0391 | 0521 | 0551 | 0730 |
| | 1124 | 1140 | 1144 | 1145 | 11505 | 11515 | 11595 | 1304 | 1363 | 4800 | 4801 |
| | 4803 | 4808 | 4809 | 481 | 4820 | 4821 | 4822 | 4823 | 48230 | 48231 | 48232 |
| | 4824 | 48240 | 48241 | 48249 | 4828 | 48281 | 48282 | 48283 | 48284 | 48289 | 4829 |
| | 4830 | 4831 | 4838 | 4841 | 4843 | 4845 | 4846 | 4847 | 4848 | 485 | 486 |
| | 5171 | | | | | | | | | | 5130 |
| 123 | Influenza | | | | | | | | | | |
| | 4870 | 4871 | 4878 | 488 | 4880 | 48801 | 48802 | 48809 | 4881 | 48811 | 48812 |
| | 48881 | 48882 | 48889 | | | | | | | | 48819 |
| 124 | Acute and chronic tonsillitis | | | | | | | | | | |
| | 463 | 4740 | 47400 | 47401 | 47402 | 47410 | 47411 | 47412 | 4742 | 4748 | 4749 |
| | | | | | | | | | | | 475 |
| 125 | Acute bronchitis | | | | | | | | | | |
| | 4660 | 4661 | 46611 | 46619 | | | | | | | |
| 126 | Other upper respiratory infections | | | | | | | | | | |
| | 0320 | 0321 | 0322 | 0323 | 0340 | 460 | 4610 | 4611 | 4612 | 4613 | 4618 |
| | 462 | 4640 | 46400 | 46401 | 46410 | 46411 | 46420 | 46421 | 46430 | 46431 | 4644 |
| | 46451 | 4650 | 4658 | 4659 | 4730 | 4731 | 4732 | 4733 | 4738 | 4739 | 4619 |
| | | | | | | | | | | | 46450 |
| 127 | Chronic obstructive pulmonary disease and bronchiectasis | | | | | | | | | | |
| | 490 | 4910 | 4911 | 4912 | 49120 | 49121 | 49122 | 4918 | 4919 | 4920 | 4928 |
| | 4940 | 4941 | 496 | | | | | | | | 494 |
| 128 | Asthma | | | | | | | | | | |
| | 49300 | 49301 | 49302 | 49310 | 49311 | 49312 | 49320 | 49321 | 49322 | 49381 | 49382 |
| | 49391 | 49392 | | | | | | | | | 49390 |
| 129 | Aspiration pneumonitis; food/vomitus | | | | | | | | | | |
| | 5070 | | | | | | | | | | |
| 130 | Pleurisy; pneumothorax; pulmonary collapse | | | | | | | | | | |
| | 5100 | 5109 | 5110 | 5111 | 5118 | 5119 | 5120 | 51281 | 51282 | 51283 | 51284 |
| | 5180 | 5181 | 5182 | | | | | | | | 51289 |
| 131 | Respiratory failure; insufficiency; arrest (adult) | | | | | | | | | | |
| | 5173 | 51851 | 51852 | 51853 | 51881 | 51882 | 51883 | 51884 | 7991 | V461 | V4611 |
| | V4613 | V4614 | V462 | | | | | | | | V4612 |
| 132 | Lung disease due to external agents | | | | | | | | | | |
| | 4950 | 4951 | 4952 | 4953 | 4954 | 4955 | 4956 | 4957 | 4958 | 4959 | 500 |
| | 502 | 503 | 504 | 505 | 5060 | 5061 | 5062 | 5063 | 5064 | 5069 | 5071 |
| | 5080 | 5081 | 5082 | 5088 | 5089 | | | | | | 5078 |
| 133 | Other lower respiratory disease | | | | | | | | | | |
| | 5131 | 514 | 515 | 5160 | 5161 | 5162 | 51630 | 51631 | 51632 | 51633 | 51634 |
| | | | | | | | | | | | 51635 |

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 51636 | 51637 | 5164 | 5165 | 51661 | 51662 | 51663 | 51664 | 51669 | 5168 | 5169 | 5172 |
| 5178 | 5183 | 5184 | 51889 | 5194 | 5198 | 5199 | 7825 | 78600 | 78601 | 78602 | 78603 |
| 78604 | 78605 | 78606 | 78607 | 78609 | 7862 | 7863 | 7864 | 78652 | 7866 | 7867 | 7868 |
| 7869 | 79311 | 79319 | 7942 | V126 | V1260 | V1261 | V1269 | V426 | | | |

134 Other upper respiratory disease

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 470 | 4710 | 4711 | 4718 | 4719 | 4720 | 4721 | 4722 | 4760 | 4761 | 4770 | 4772 |
| 4778 | 4779 | 4780 | 4781 | 47820 | 47821 | 47822 | 47824 | 47825 | 47826 | 47829 | 47830 |
| 47831 | 47832 | 47833 | 47834 | 4784 | 4785 | 4786 | 47870 | 47871 | 47874 | 47875 | 47879 |
| 4788 | 4789 | 5191 | 5192 | 5193 | 7841 | 78440 | 78441 | 78442 | 78443 | 78444 | 78449 |
| 7847 | 7848 | 7849 | 7861 | V414 | V440 | V550 | | | | | |

135 Intestinal infection

| | | | | | | | | | | | |
|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| 0010 | 0011 | 0019 | 0020 | 0021 | 0022 | 0023 | 0029 | 0030 | 00320 | 00329 | 0038 |
| 0039 | 0040 | 0041 | 0042 | 0043 | 0048 | 0049 | 0050 | 0051 | 0052 | 0053 | 0054 |
| 0058 | 00581 | 00589 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0068 |
| 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0078 | 0079 | 0080 | 00800 | 00801 |
| 00802 | 00803 | 00804 | 00809 | 0081 | 0082 | 0083 | 00841 | 00842 | 00843 | 00844 | 00845 |
| 00846 | 00847 | 00849 | 0085 | 0086 | 00861 | 00862 | 00863 | 00864 | 00865 | 00866 | 00867 |
| 00869 | 0088 | 0090 | 0091 | 0092 | 0093 | 0211 | 0222 | | | | |

136 Disorders of teeth and jaw

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5200 | 5201 | 5202 | 5203 | 5204 | 5205 | 5206 | 5207 | 5208 | 5209 | 5210 | 52100 |
| 52101 | 52102 | 52103 | 52104 | 52105 | 52106 | 52107 | 52108 | 52109 | 5211 | 52110 | 52111 |
| 52112 | 52113 | 52114 | 52115 | 5212 | 52120 | 52121 | 52122 | 52123 | 52124 | 52125 | 5213 |
| 52130 | 52131 | 52132 | 52133 | 52134 | 52135 | 5214 | 52140 | 52141 | 52142 | 52149 | 5215 |
| 5216 | 5217 | 5218 | 5219 | 5220 | 5221 | 5222 | 5223 | 5224 | 5225 | 5226 | 5227 |
| 5228 | 5229 | 5230 | 5231 | 5232 | 52320 | 52321 | 52322 | 52323 | 52324 | 52325 | 5233 |
| 5234 | 5235 | 5236 | 5238 | 5239 | 5240 | 52400 | 52401 | 52402 | 52403 | 52404 | 52405 |
| 52406 | 52407 | 52409 | 5241 | 52410 | 52411 | 52412 | 52419 | 5242 | 52420 | 52421 | 52422 |
| 52423 | 52424 | 52425 | 52426 | 52427 | 52428 | 52429 | 5243 | 52430 | 52431 | 52432 | 52433 |
| 52434 | 52435 | 52436 | 52437 | 52439 | 5244 | 5245 | 52450 | 52451 | 52452 | 52453 | 52454 |
| 52455 | 52456 | 52457 | 52459 | 5246 | 52460 | 52461 | 52462 | 52463 | 52464 | 52469 | 52470 |
| 52471 | 52472 | 52473 | 52474 | 52475 | 52476 | 52479 | 5248 | 52481 | 52482 | 52489 | 5249 |
| 5250 | 5251 | 52510 | 52511 | 52512 | 52513 | 52519 | 5252 | 52520 | 52521 | 52522 | 52523 |
| 52524 | 52525 | 52526 | 5253 | 52540 | 52541 | 52542 | 52543 | 52544 | 52550 | 52551 | 52552 |
| 52553 | 52554 | 52571 | 52572 | 52573 | 52579 | 5258 | 5259 | 5260 | 5261 | 5262 | 5263 |
| 5264 | 5265 | 52681 | 52689 | 5269 | 78492 | V523 | V534 | V585 | V722 | | |

137 Diseases of mouth; excluding dental

| | | | | | | | | | | | |
|------|------|------|------|------|------|-------|-------|-------|------|------|------|
| 5270 | 5271 | 5272 | 5273 | 5274 | 5275 | 5276 | 5277 | 5278 | 5279 | 5280 | 5281 |
| 5282 | 5283 | 5284 | 5285 | 5286 | 5287 | 52871 | 52872 | 52879 | 5288 | 5289 | 5290 |
| 5291 | 5292 | 5293 | 5294 | 5295 | 5296 | 5298 | 5299 | 7924 | | | |

138 Esophageal disorders

| | | | | | | | | | | | |
|------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|------|
| 4561 | 45621 | 5300 | 5301 | 53010 | 53011 | 53012 | 53019 | 5302 | 53020 | 53021 | 5303 |
| 5304 | 5305 | 5306 | 5308 | 53081 | 53083 | 53084 | 53085 | 53089 | 5309 | | |

139 Gastroduodenal ulcer (except hemorrhage)

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 53110 | 53111 | 53130 | 53131 | 53150 | 53151 | 53170 | 53171 | 53190 | 53191 | 53210 | 53211 |
| 53230 | 53231 | 53250 | 53251 | 53270 | 53271 | 53290 | 53291 | 53310 | 53311 | 53330 | 53331 |
| 53350 | 53351 | 53370 | 53371 | 53390 | 53391 | 53410 | 53411 | 53430 | 53431 | 53450 | 53451 |
| 53470 | 53471 | 53490 | 53491 | V1271 | | | | | | | |

| | | | | | | | | | | | | |
|-----|-----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 140 | Gastritis and duodenitis | | | | | | | | | | | |
| | 5350 | 53500 | 53501 | 5351 | 53510 | 53511 | 5352 | 53520 | 53521 | 5353 | 5354 | 53540 |
| | 53541 | 5355 | 53550 | 53551 | 5356 | 53560 | 53561 | 53571 | | | | |
| 141 | Other disorders of stomach and duodenum | | | | | | | | | | | |
| | 5360 | 5361 | 5362 | 5363 | 5368 | 5369 | 5370 | 5371 | 5372 | 5373 | 5374 | 5375 |
| | 5376 | 53781 | 53782 | 53783 | 53784 | 53789 | 5379 | | | | | |
| 142 | Appendicitis and other appendiceal conditions | | | | | | | | | | | |
| | 5400 | 5401 | 5409 | 541 | 542 | 5430 | 5439 | | | | | |
| 143 | Abdominal hernia | | | | | | | | | | | |
| | 55000 | 55001 | 55002 | 55003 | 55010 | 55011 | 55012 | 55013 | 55090 | 55091 | 55092 | 55093 |
| | 55100 | 55101 | 55102 | 55103 | 5511 | 55120 | 55121 | 55129 | 5513 | 5518 | 5519 | 55200 |
| | 55201 | 55202 | 55203 | 5521 | 55220 | 55221 | 55229 | 5523 | 5528 | 5529 | 55300 | 55301 |
| | 55302 | 55303 | 5531 | 55320 | 55321 | 55329 | 5533 | 5538 | 5539 | | | |
| 144 | Regional enteritis and ulcerative colitis | | | | | | | | | | | |
| | 5550 | 5551 | 5552 | 5559 | 556 | 5560 | 5561 | 5562 | 5563 | 5564 | 5565 | 5566 |
| | 5568 | 5569 | | | | | | | | | | |
| 145 | Intestinal obstruction without hernia | | | | | | | | | | | |
| | 5600 | 5601 | 5602 | 56030 | 56031 | 56032 | 56039 | 56081 | 56089 | 5609 | | |
| 146 | Diverticulosis and diverticulitis | | | | | | | | | | | |
| | 56200 | 56201 | 56202 | 56203 | 56210 | 56211 | 56212 | 56213 | | | | |
| 147 | Anal and rectal conditions | | | | | | | | | | | |
| | 5646 | 5650 | 5651 | 566 | 5690 | 5691 | 5692 | 56941 | 56942 | 56943 | 56944 | 56949 |
| 148 | Peritonitis and intestinal abscess | | | | | | | | | | | |
| | 03283 | 5670 | 5671 | 5672 | 56721 | 56722 | 56723 | 56729 | 56738 | 56739 | 5678 | 56781 |
| | 56782 | 56789 | 5679 | 5695 | | | | | | | | |
| 149 | Biliary tract disease | | | | | | | | | | | |
| | 57400 | 57401 | 57410 | 57411 | 57420 | 57421 | 57430 | 57431 | 57440 | 57441 | 57450 | 57451 |
| | 57460 | 57461 | 57470 | 57471 | 57480 | 57481 | 57490 | 57491 | 5750 | 5751 | 57510 | 57511 |
| | 57512 | 5752 | 5753 | 5754 | 5755 | 5756 | 5758 | 5759 | 5760 | 5761 | 5762 | 5763 |
| | 5764 | 5765 | 5768 | 5769 | 7933 | | | | | | | |
| 151 | Other liver diseases | | | | | | | | | | | |
| | 570 | 5715 | 5716 | 5718 | 5719 | 5720 | 5721 | 5722 | 5723 | 5724 | 5728 | 5730 |
| | 5734 | 5738 | 5739 | 7824 | 7891 | 7895 | 7904 | 7905 | 7948 | V427 | | |
| 152 | Pancreatic disorders (not diabetes) | | | | | | | | | | | |
| | 5770 | 5771 | 5772 | 5778 | 5779 | 5794 | | | | | | |
| 153 | Gastrointestinal hemorrhage | | | | | | | | | | | |
| | 4560 | 45620 | 5307 | 53082 | 53100 | 53101 | 53120 | 53121 | 53140 | 53141 | 53160 | 53161 |
| | 53200 | 53201 | 53220 | 53221 | 53240 | 53241 | 53260 | 53261 | 53300 | 53301 | 53320 | 53321 |
| | 53340 | 53341 | 53360 | 53361 | 53400 | 53401 | 53420 | 53421 | 53440 | 53441 | 53460 | 53461 |
| | 5693 | 5780 | 5781 | 5789 | | | | | | | | |

| | | | | | | | | | | | | |
|-----|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 154 | Noninfectious gastroenteritis | | | | | | | | | | | |
| | 55841 | 55842 | 5589 | | | | | | | | | |
| 155 | Other gastrointestinal disorders | | | | | | | | | | | |
| | 5581 | 5582 | 5640 | 56400 | 56401 | 56402 | 56409 | 5641 | 5645 | 5647 | 5648 | 56481 |
| | 56489 | 5649 | 5680 | 56881 | 56882 | 56889 | 5689 | 56981 | 56982 | 56983 | 56984 | 56985 |
| | 56986 | 56987 | 56989 | 5699 | 5790 | 5791 | 5792 | 5798 | 5799 | 7871 | 7872 | 78722 |
| | 78723 | 78724 | 78729 | 7873 | 7874 | 7875 | 7876 | 78761 | 78762 | 78763 | 7877 | 7879 |
| | 78791 | 78799 | 7892 | 7893 | 78930 | 78931 | 78932 | 78933 | 78934 | 78935 | 78936 | 78937 |
| | 78939 | 7894 | 78940 | 78941 | 78942 | 78943 | 78944 | 78945 | 78946 | 78947 | 78949 | 7899 |
| | 7921 | 7934 | 7936 | V127 | V1270 | V1279 | V416 | V441 | V442 | V443 | V444 | V453 |
| | V473 | V535 | V5350 | V5351 | V5359 | V551 | V552 | V553 | V554 | | | |
| 156 | Nephritis; nephrosis; renal sclerosis | | | | | | | | | | | |
| | 5800 | 5804 | 58081 | 58089 | 5809 | 5810 | 5811 | 5812 | 5813 | 58181 | 58189 | 5819 |
| | 5820 | 5821 | 5822 | 5824 | 58281 | 58289 | 5829 | 5830 | 5831 | 5832 | 5834 | 5836 |
| | 5837 | 58381 | 58389 | 5839 | 587 | | | | | | | |
| 157 | Acute and unspecified renal failure | | | | | | | | | | | |
| | 5845 | 5846 | 5847 | 5848 | 5849 | 586 | | | | | | |
| 158 | Chronic kidney failure | | | | | | | | | | | |
| | 585 | 5851 | 5852 | 5853 | 5854 | 5855 | 5856 | 5859 | 7925 | V420 | V451 | V4512 |
| | V560 | V561 | V562 | V5631 | V5632 | V568 | | | | | | |
| 159 | Urinary tract infections | | | | | | | | | | | |
| | 03284 | 59000 | 59001 | 59010 | 59011 | 5902 | 5903 | 59080 | 59081 | 5909 | 5950 | 5951 |
| | 5952 | 5953 | 5954 | 59581 | 59582 | 59589 | 5959 | 5970 | 59780 | 59781 | 59789 | 59800 |
| | 59801 | 5990 | | | | | | | | | | |
| 160 | Calculus of urinary tract | | | | | | | | | | | |
| | 5920 | 5921 | 5929 | 5940 | 5941 | 5942 | 5948 | 5949 | 7880 | V1301 | | |
| 161 | Other diseases of kidney and ureters | | | | | | | | | | | |
| | 5880 | 5881 | 5888 | 58881 | 58889 | 5889 | 5890 | 5891 | 5899 | 591 | 5930 | 5931 |
| | 5932 | 5933 | 5934 | 5935 | 5936 | 5937 | 59370 | 59371 | 59372 | 59373 | 59381 | 59382 |
| | 59389 | 5939 | | | | | | | | | | |
| 162 | Other diseases of bladder and urethra | | | | | | | | | | | |
| | 5960 | 5961 | 5962 | 5963 | 5964 | 5965 | 59651 | 59652 | 59653 | 59654 | 59655 | 59659 |
| | 5966 | 5967 | 5969 | 5981 | 5982 | 5988 | 5989 | 5991 | 5992 | 5993 | 5994 | 5995 |
| | 59981 | 59982 | 59983 | 59984 | | | | | | | | |
| 163 | Genitourinary symptoms and ill-defined conditions | | | | | | | | | | | |
| | 5996 | 59960 | 59969 | 5997 | 5998 | 59989 | 5999 | 7881 | 7882 | 78820 | 78821 | 78829 |
| | 7883 | 78830 | 78831 | 78832 | 78833 | 78834 | 78835 | 78836 | 78837 | 78838 | 78839 | 7884 |
| | 78841 | 78842 | 78843 | 7885 | 7886 | 78861 | 78862 | 78863 | 78869 | 7887 | 7888 | 7889 |
| | 7910 | 7911 | 7912 | 7913 | 7914 | 7917 | 7919 | 7935 | 7944 | V130 | V1300 | V1302 |
| | V1303 | V1309 | V417 | V435 | V445 | V4450 | V4451 | V4452 | V4459 | V446 | V474 | V475 |
| | V536 | V555 | V556 | | | | | | | | | |
| 164 | Hyperplasia of prostate | | | | | | | | | | | |
| | 600 | 6000 | 60000 | 60001 | 6001 | 60010 | 60011 | 6002 | 60020 | 60021 | 6003 | 6009 |

60090 60091

165 Inflammatory conditions of male genital organs

6010 6011 6012 6013 6014 6018 6019 6031 6040 60490 60491 60499
6071 6072 6080 6084

166 Other male genital disorders

6020 6021 6022 6023 6028 6029 6030 6038 6039 605 6060 6061
6068 6069 6070 6073 60781 60782 60783 60784 60785 60789 6079 6081
6082 6083 60881 60882 60883 60884 60885 60886 60887 60889 6089 7922

167 Nonmalignant breast conditions

6100 6101 6102 6103 6104 6108 6109 6110 6111 6112 6113 6114
6115 6116 61171 61172 61179 6118 61181 61182 61183 61189 6119 6120
6121 7938 79380 79381 79389

168 Inflammatory diseases of female pelvic organs

6140 6141 6142 6143 6144 6145 6146 6147 6148 6149 6150 6151
6159 6160 61610 61611 6162 6163 6164 61650 61651 6168 6169 62571

169 Endometriosis

6170 6171 6172 6173 6174 6175 6176 6178 6179

170 Prolapse of female genital organs

6180 61800 61801 61802 61803 61804 61805 61809 6181 6182 6183 6184
6185 6186 6187 6188 61881 61882 61883 61889 6189

171 Menstrual disorders

6253 6260 6261 6262 6263 6264 6265 6266 6268 6269

172 Ovarian cyst

6200 6201 6202

173 Menopausal disorders

25631 25639 6270 6271 6272 6273 6274 6278 6279 V074

174 Female infertility

6280 6281 6282 6283 6284 6288 6289

175 Other female genital disorders

6190 6191 6192 6198 6199 6203 6204 6205 6206 6207 6208 6209
6210 6211 6212 6213 62130 62131 62132 62133 62134 62135 6214 6215
6216 6217 6218 6219 6220 6221 62210 62211 62212 6222 6223 6224
6225 6226 6227 6228 6229 6230 6231 6232 6233 6234 6235 6236
6237 6238 6239 6240 62401 62402 62409 6241 6242 6243 6244 6245
6246 6248 6249 6250 6251 6252 6254 6255 6256 62570 62579 6258
6259 6267 6290 6291 62920 62921 62922 62923 6298 6299 79509 V132
V1321 V1322 V1323 V1234 V1329 V557 V723

176 Contraceptive and procreative management

V157 V2501 V2502 V2503 V2509 V251 V2511 V2513 V252 V253 V2540 V2541
V2542 V2543 V2549 V255 V258 V259 V260 V261 V262 V2621 V2622 V2629
V263 V2631 V2632 V2633 V264 V2641 V2642 V2649 V2651 V2652 V268 V2681
V2682 V2689 V269 V455 V4551 V4552 V4559

| | | | | | | | | | | | | | |
|-------|----------------------------------|--------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 177 | Spontaneous abortion | | | | | | | | | | | | |
| | 63400 | 63401 | 63402 | 63410 | 63411 | 63412 | 63420 | 63421 | 63422 | 63430 | 63431 | 63432 | |
| | 63440 | 63441 | 63442 | 63450 | 63451 | 63452 | 63460 | 63461 | 63462 | 63470 | 63471 | 63472 | |
| | 63480 | 63481 | 63482 | 63490 | 63491 | 63492 | | | | | | | |
| 178 | Induced abortion | | | | | | | | | | | | |
| | 63500 | 63501 | 63502 | 63510 | 63511 | 63512 | 63520 | 63521 | 63522 | 63530 | 63531 | 63532 | |
| | 63540 | 63541 | 63542 | 63550 | 63551 | 63552 | 63560 | 63561 | 63562 | 63570 | 63571 | 63572 | |
| | 63580 | 63581 | 63582 | 63590 | 63591 | 63592 | 63600 | 63601 | 63602 | 63610 | 63611 | 63612 | |
| | 63620 | 63621 | 63622 | 63630 | 63631 | 63632 | 63640 | 63641 | 63642 | 63650 | 63651 | 63652 | |
| | 63660 | 63661 | 63662 | 63670 | 63671 | 63672 | 63680 | 63681 | 63682 | 63690 | 63691 | 63692 | |
| | 63700 | 63701 | 63702 | 63710 | 63711 | 63712 | 63720 | 63721 | 63722 | 63730 | 63731 | 63732 | |
| | 63740 | 63741 | 63742 | 63750 | 63751 | 63752 | 63760 | 63761 | 63762 | 63770 | 63771 | 63772 | |
| | 63780 | 63781 | 63782 | 63790 | 63791 | 63792 | 6380 | 6381 | 6382 | 6383 | 6384 | 6385 | |
| | 6386 | 6387 | 6388 | 6389 | | | | | | | | | |
| 179 | Postabortion complications | | | | | | | | | | | | |
| | 6390 | 6391 | 6392 | 6393 | 6394 | 6395 | 6396 | 6398 | 6399 | | | | |
| 180 | Ectopic pregnancy | | | | | | | | | | | | |
| | 6330 | 63300 | 63301 | 6331 | 63310 | 63311 | 6332 | 63320 | 63321 | 6338 | 63380 | 63381 | |
| | 6339 | 63390 | 63391 | | | | | | | | | | |
| 181 | Other complications of pregnancy | | | | | | | | | | | | |
| | 630 | 6318 | 632 | 64300 | 64301 | 64303 | 64310 | 64311 | 64313 | 64320 | 64321 | 64323 | |
| | 64380 | 64381 | 64383 | 64390 | 64391 | 64393 | 64600 | 64601 | 64603 | 64610 | 64611 | 64612 | |
| | 64613 | 64614 | 64620 | 64621 | 64622 | 64623 | 64624 | 64630 | 64631 | 64633 | 64640 | 64641 | |
| | 64642 | 64643 | 64644 | 64650 | 64651 | 64652 | 64653 | 64654 | 64660 | 64661 | 64662 | 64663 | |
| | 64664 | 64670 | 64671 | 64673 | 64680 | 64681 | 64682 | 64683 | 64684 | 64690 | 64691 | 64693 | |
| | 64700 | 64701 | 64702 | 64703 | 64704 | 64710 | 64711 | 64712 | 64713 | 64714 | 64720 | 64721 | |
| | 64722 | 64723 | 64724 | 64730 | 64731 | 64732 | 64733 | 64734 | 64740 | 64741 | 64742 | 64743 | |
| | 64744 | 64750 | 64751 | 64752 | 64753 | 64754 | 64760 | 64761 | 64762 | 64763 | 64764 | 64780 | |
| | 64781 | 64782 | 64783 | 64784 | 64790 | 64791 | 64792 | 64793 | 64794 | 64810 | 64811 | 64812 | |
| | 64813 | 64814 | 64820 | 64821 | 64822 | 64823 | 64824 | 64830 | 64831 | 64832 | 64833 | 64834 | |
| | 64840 | 64841 | 64842 | 64843 | 64844 | 64850 | 64851 | 64852 | 64853 | 64854 | 64860 | 64861 | |
| | 64862 | 64863 | 64864 | 64870 | 64871 | 64872 | 64873 | 64874 | 64890 | 64891 | 64892 | 64893 | |
| | 64894 | V2342 | V2387 | V271 | V272 | V273 | V274 | V275 | V276 | V277 | V279 | | |
| | 182 | Hemorrhage during pregnancy; abruptio placenta; placenta previa | | | | | | | | | | | |
| | | 64000 | 64001 | 64003 | 64080 | 64081 | 64083 | 64090 | 64091 | 64093 | 64100 | 64101 | 64103 |
| | | 64110 | 64111 | 64113 | 64120 | 64121 | 64123 | 64130 | 64131 | 64133 | 64180 | 64181 | 64183 |
| | | 64190 | 64191 | 64193 | | | | | | | | | |
| | 183 | Hypertension complicating pregnancy; childbirth and the puerperium | | | | | | | | | | | |
| | | 64200 | 64201 | 64202 | 64203 | 64204 | 64210 | 64211 | 64212 | 64213 | 64214 | 64220 | 64221 |
| 64222 | | 64223 | 64224 | 64230 | 64231 | 64232 | 64233 | 64234 | 64240 | 64241 | 64242 | 64243 | |
| 64244 | | 64250 | 64251 | 64252 | 64253 | 64254 | 64260 | 64261 | 64262 | 64263 | 64264 | 64270 | |
| 64271 | | 64272 | 64273 | 64274 | 64290 | 64291 | 64292 | 64293 | 64294 | | | | |
| 184 | Early or threatened labor | | | | | | | | | | | | |
| | 64400 | 64403 | 64410 | 64413 | 64420 | 64421 | | | | | | | |

| | | | | | | | | | | | |
|------------|-----------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 185 | Prolonged pregnancy | | | | | | | | | | |
| | 64500 | 64501 | 64503 | 64510 | 64511 | 64513 | 64520 | 64521 | 64523 | | |
| 186 | Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium | | | | | | | | | | |
| | 64800 | 64801 | 64802 | 64803 | 64804 | 64880 | 64881 | 64882 | 64883 | 64884 | |
| 187 | Malposition; malpresentation | | | | | | | | | | |
| | 65200 | 65201 | 65203 | 65210 | 65211 | 65213 | 65220 | 65221 | 65223 | 65230 | 65231 |
| | 65240 | 65241 | 65243 | 65250 | 65251 | 65253 | 65260 | 65261 | 65263 | 65270 | 65271 |
| | 65280 | 65281 | 65283 | 65290 | 65291 | 65293 | 66000 | 66001 | 66003 | | |
| 188 | Fetopelvic disproportion; obstruction | | | | | | | | | | |
| | 65300 | 65301 | 65303 | 65310 | 65311 | 65313 | 65320 | 65321 | 65323 | 65330 | 65331 |
| | 65340 | 65341 | 65343 | 65350 | 65351 | 65353 | 65360 | 65361 | 65363 | 65370 | 65371 |
| | 65380 | 65381 | 65383 | 65390 | 65391 | 65393 | 66010 | 66011 | 66013 | 66020 | 66021 |
| | 66030 | 66031 | 66033 | 66040 | 66041 | 66043 | 66050 | 66051 | 66053 | 66060 | 66061 |
| | 66070 | 66071 | 66073 | 66080 | 66081 | 66083 | 66090 | 66091 | 66093 | 67810 | 67811 |
| 189 | Previous C-section | | | | | | | | | | |
| | 65420 | 65421 | 65423 | | | | | | | | |
| 190 | Fetal distress and abnormal forces of labor | | | | | | | | | | |
| | 65630 | 65631 | 65633 | 66100 | 66101 | 66103 | 66110 | 66111 | 66113 | 66120 | 66121 |
| | 66130 | 66131 | 66133 | 66140 | 66141 | 66143 | 66190 | 66191 | 66193 | 66200 | 66201 |
| | 66210 | 66211 | 66213 | 66220 | 66221 | 66223 | 66230 | 66231 | 66233 | | |
| 191 | Polyhydramnios and other problems of amniotic cavity | | | | | | | | | | |
| | 65700 | 65701 | 65703 | 65800 | 65801 | 65803 | 65810 | 65811 | 65813 | 65820 | 65821 |
| | 65830 | 65831 | 65833 | 65840 | 65841 | 65843 | 65880 | 65881 | 65883 | 65890 | 65891 |
| | 7923 | | | | | | | | | | |
| 192 | Umbilical cord complication | | | | | | | | | | |
| | 66300 | 66301 | 66303 | 66310 | 66311 | 66313 | 66320 | 66321 | 66323 | 66330 | 66331 |
| | 66340 | 66341 | 66343 | 66350 | 66351 | 66353 | 66360 | 66361 | 66363 | 66380 | 66381 |
| | 66390 | 66391 | 66393 | | | | | | | | |
| 193 | OB-related trauma to perineum and vulva | | | | | | | | | | |
| | 66400 | 66401 | 66404 | 66410 | 66411 | 66414 | 66420 | 66421 | 66424 | 66430 | 66431 |
| | 66440 | 66441 | 66444 | 66450 | 66451 | 66454 | 66460 | 66461 | 66464 | 66480 | 66481 |
| | 66490 | 66491 | 66494 | | | | | | | | |
| 194 | Forceps delivery | | | | | | | | | | |
| | 66950 | 66951 | | | | | | | | | |
| 195 | Other complications of birth; puerperium affecting management of mother | | | | | | | | | | |
| | 64970 | 64971 | 64973 | 64981 | 64982 | 65103 | 65113 | 65123 | 65130 | 65131 | 65133 |
| | 65141 | 65143 | 65150 | 65151 | 65153 | 65160 | 65161 | 65163 | 65183 | 65193 | 65400 |
| | 65402 | 65403 | 65404 | 65410 | 65411 | 65412 | 65413 | 65414 | 65430 | 65431 | 65432 |
| | 65434 | 65440 | 65441 | 65442 | 65443 | 65444 | 65450 | 65451 | 65452 | 65453 | 65454 |
| | 65461 | 65462 | 65463 | 65464 | 65470 | 65471 | 65472 | 65473 | 65474 | 65480 | 65481 |
| | 65483 | 65484 | 65490 | 65491 | 65492 | 65493 | 65494 | 65500 | 65501 | 65503 | 65510 |
| | 65513 | 65520 | 65521 | 65523 | 65530 | 65531 | 65533 | 65540 | 65541 | 65543 | 65550 |
| | 65553 | 65560 | 65561 | 65563 | 65570 | 65571 | 65573 | 65580 | 65581 | 65583 | 65590 |

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 65593 | 65600 | 65601 | 65603 | 65610 | 65611 | 65613 | 65620 | 65621 | 65623 | 65640 | 65641 |
| 65643 | 65650 | 65651 | 65653 | 65660 | 65661 | 65663 | 65670 | 65671 | 65673 | 65680 | 65681 |
| 65683 | 65690 | 65691 | 65693 | 65900 | 65901 | 65903 | 65910 | 65911 | 65913 | 65920 | 65921 |
| 65923 | 65930 | 65931 | 65933 | 65940 | 65941 | 65943 | 65950 | 65951 | 65953 | 65960 | 65961 |
| 65963 | 65970 | 65971 | 65973 | 65980 | 65981 | 65983 | 65990 | 65991 | 65993 | 66500 | 66501 |
| 66503 | 66510 | 66511 | 66512 | 66514 | 66520 | 66522 | 66524 | 66530 | 66531 | 66534 | 66540 |
| 66541 | 66544 | 66550 | 66551 | 66554 | 66560 | 66561 | 66564 | 66570 | 66571 | 66572 | 66574 |
| 66580 | 66581 | 66582 | 66583 | 66584 | 66590 | 66591 | 66592 | 66593 | 66594 | 66600 | 66602 |
| 66604 | 66610 | 66612 | 66614 | 66620 | 66622 | 66624 | 66630 | 66632 | 66634 | 66700 | 66702 |
| 66704 | 66710 | 66712 | 66714 | 66800 | 66801 | 66802 | 66803 | 66804 | 66810 | 66811 | 66812 |
| 66813 | 66814 | 66820 | 66821 | 66822 | 66823 | 66824 | 66880 | 66881 | 66882 | 66883 | 66884 |
| 66890 | 66891 | 66892 | 66893 | 66894 | 66900 | 66901 | 66902 | 66903 | 66904 | 66910 | 66911 |
| 66912 | 66913 | 66914 | 66920 | 66921 | 66922 | 66923 | 66924 | 66930 | 66932 | 66934 | 66940 |
| 66941 | 66942 | 66943 | 66944 | 66960 | 66961 | 66970 | 66971 | 66980 | 66981 | 66982 | 66983 |
| 66984 | 66990 | 66991 | 66992 | 66993 | 66994 | 67000 | 67002 | 67004 | 67010 | 67012 | 67014 |
| 67020 | 67022 | 67024 | 67030 | 67032 | 67034 | 67080 | 67082 | 67100 | 67101 | 67102 | 67103 |
| 67104 | 67110 | 67111 | 67112 | 67113 | 67114 | 67120 | 67121 | 67122 | 67123 | 67124 | 67130 |
| 67131 | 67133 | 67140 | 67142 | 67144 | 67150 | 67151 | 67152 | 67153 | 67154 | 67180 | 67181 |
| 67182 | 67183 | 67184 | 67190 | 67191 | 67192 | 67193 | 67194 | 67200 | 67202 | 67204 | 67300 |
| 67301 | 67302 | 67303 | 67304 | 67310 | 67311 | 67312 | 67313 | 67314 | 67320 | 67321 | 67322 |
| 67323 | 67324 | 67330 | 67331 | 67332 | 67333 | 67334 | 67380 | 67381 | 67382 | 67383 | 67384 |
| 67400 | 67401 | 67402 | 67403 | 67404 | 67410 | 67412 | 67414 | 67420 | 67422 | 67424 | 67430 |
| 67432 | 67434 | 67440 | 67442 | 67444 | 67450 | 67451 | 67452 | 67453 | 67454 | 67480 | 67482 |
| 67484 | 67490 | 67492 | 67494 | 67500 | 67501 | 67502 | 67503 | 67504 | 67510 | 67511 | 67512 |
| 67513 | 67514 | 67520 | 67521 | 67522 | 67523 | 67524 | 67580 | 67581 | 67582 | 67583 | 67584 |
| 67590 | 67591 | 67592 | 67593 | 67594 | 67600 | 67601 | 67602 | 67603 | 67604 | 67610 | 67611 |
| 67612 | 67613 | 67614 | 67620 | 67621 | 67622 | 67623 | 67624 | 67630 | 67631 | 67632 | 67633 |
| 67634 | 67640 | 67641 | 67642 | 67643 | 67644 | 67650 | 67651 | 67652 | 67653 | 67654 | 67660 |
| 67661 | 67662 | 67663 | 67664 | 67680 | 67681 | 67682 | 67683 | 67684 | 67690 | 67691 | 67692 |
| 67693 | 67694 | 677 | 67800 | 67801 | 67803 | 67900 | 67901 | 67902 | 67903 | 67904 | 67910 |
| 67911 | 67912 | 67913 | 67914 | V230 | V231 | V232 | V233 | V234 | V2341 | V2349 | V235 |
| V237 | V238 | V2381 | V2382 | V2383 | V2384 | V2385 | V2386 | V2389 | V239 | | |

196 Normal pregnancy and/or delivery

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 650 | 65100 | 65101 | 65110 | 65111 | 65120 | 65121 | 65170 | 65171 | 65173 | 65180 | 65181 |
| 65190 | 65191 | V220 | V221 | V222 | V240 | V241 | V242 | V270 | V724 | V7242 | V9100 |
| V9101 | V9102 | V9103 | V9109 | V9110 | V9111 | V9112 | V9119 | V9120 | V9121 | V9122 | V9129 |
| V9190 | V9191 | V9192 | V9199 | | | | | | | | |

197 Skin and subcutaneous tissue infections

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 0201 | 0210 | 0220 | 0311 | 03285 | 035 | 0390 | 6800 | 6801 | 6802 | 6803 | 6804 |
| 6805 | 6806 | 6807 | 6808 | 6809 | 68100 | 68101 | 68102 | 68110 | 68111 | 6819 | 6820 |
| 6821 | 6822 | 6823 | 6824 | 6825 | 6826 | 6827 | 6828 | 6829 | 684 | 6850 | 6851 |
| 6860 | 68600 | 68601 | 68609 | 6861 | 6868 | 6869 | | | | | |

198 Other inflammatory condition of skin

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 690 | 69010 | 69011 | 69012 | 69018 | 6908 | 69276 | 69277 | 6940 | 6941 | 6942 | 6943 |
| 6944 | 6945 | 69460 | 69461 | 6948 | 6949 | 6950 | 6951 | 69510 | 69512 | 69513 | 69514 |
| 69515 | 69519 | 6952 | 6953 | 6954 | 69550 | 69551 | 69552 | 69555 | 69556 | 69557 | 69558 |
| 69559 | 69581 | 69589 | 6959 | 6960 | 6961 | 6962 | 6963 | 6964 | 6965 | 6968 | 6970 |
| 6971 | 6978 | 6979 | 6980 | 6981 | 6982 | 6983 | 6984 | 6988 | 6989 | | |

199 Chronic ulcer of skin

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 7070 | 70700 | 70701 | 70702 | 70703 | 70704 | 70705 | 70706 | 70707 | 70709 | 7071 | 70710 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

| | | | | | | | | | | | | |
|------------|-------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 70711 7078 | 70712 7079 | 70713 | 70714 | 70715 | 70719 | 70720 | 70721 | 70722 | 70723 | 70724 | 70725 |
| 200 | Other skin disorders | | | | | | | | | | | |
| | 69275 | 700 | 7010 | 7011 | 7012 | 7013 | 7014 | 7015 | 7018 | 7019 | 702 | 7020 |
| | 7021 | 70211 | 70219 | 7028 | 7030 | 7038 | 7039 | 70400 | 70401 | 70402 | 70409 | 7041 |
| | 7042 | 7043 | 70441 | 70442 | 7048 | 7049 | 7050 | 7051 | 70521 | 70522 | 70581 | 70582 |
| | 70583 | 70589 | 7059 | 7060 | 7061 | 7062 | 7063 | 7068 | 7069 | 7090 | 70900 | 70901 |
| | 70909 | 7091 | 7092 | 7093 | 7094 | 7098 | 7099 | 7808 | 7821 | 7822 | V133 | V423 |
| 201 | Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease) | | | | | | | | | | | |
| | 00323 | 00324 | 0261 | 03682 | 05671 | 71100 | 71101 | 71102 | 71103 | 71104 | 71105 | 71106 |
| | 71107 | 71108 | 71109 | 71110 | 71111 | 71112 | 71113 | 71114 | 71115 | 71116 | 71117 | 71118 |
| | 71119 | 71120 | 71121 | 71122 | 71123 | 71124 | 71125 | 71126 | 71127 | 71128 | 71129 | 71130 |
| | 71131 | 71132 | 71133 | 71134 | 71135 | 71136 | 71137 | 71138 | 71139 | 71140 | 71141 | 71142 |
| | 71143 | 71144 | 71145 | 71146 | 71147 | 71148 | 71149 | 71150 | 71151 | 71152 | 71153 | 71154 |
| | 71155 | 71156 | 71157 | 71158 | 71159 | 71160 | 71161 | 71162 | 71163 | 71164 | 71165 | 71166 |
| | 71167 | 71168 | 71169 | 71170 | 71171 | 71172 | 71173 | 71174 | 71175 | 71176 | 71177 | 71178 |
| | 71179 | 71180 | 71181 | 71182 | 71183 | 71184 | 71185 | 71186 | 71187 | 71188 | 71189 | 71190 |
| | 71191 | 71192 | 71193 | 71194 | 71195 | 71196 | 71197 | 71198 | 71199 | 73000 | 73001 | 73002 |
| | 73003 | 73004 | 73005 | 73006 | 73007 | 73008 | 73009 | 73010 | 73011 | 73012 | 73013 | 73014 |
| | 73015 | 73016 | 73017 | 73018 | 73019 | 73020 | 73021 | 73022 | 73023 | 73024 | 73025 | 73026 |
| | 73027 | 73028 | 73029 | 73030 | 73031 | 73032 | 73033 | 73034 | 73035 | 73036 | 73037 | 73038 |
| | 73039 | 73070 | 73071 | 73072 | 73073 | 73074 | 73075 | 73076 | 73077 | 73078 | 73079 | 73080 |
| | 73081 | 73082 | 73083 | 73084 | 73085 | 73086 | 73087 | 73088 | 73089 | 73090 | 73091 | 73092 |
| | 73093 | 73094 | 73095 | 73096 | 73097 | 73098 | 73099 | | | | | |
| 202 | Rheumatoid arthritis and related disease | | | | | | | | | | | |
| | 7140 | 7141 | 7142 | 71430 | 71431 | 71432 | 71433 | 7144 | 71481 | 71489 | 7149 | 7200 |
| 203 | Osteoarthritis | | | | | | | | | | | |
| | 71500 | 71504 | 71509 | 71510 | 71511 | 71512 | 71513 | 71514 | 71515 | 71516 | 71517 | 71518 |
| | 71520 | 71521 | 71522 | 71523 | 71524 | 71525 | 71526 | 71527 | 71528 | 71530 | 71531 | 71532 |
| | 71533 | 71534 | 71535 | 71536 | 71537 | 71538 | 71580 | 71589 | 71590 | 71591 | 71592 | 71593 |
| | 71594 | 71595 | 71596 | 71597 | 71598 | V134 | | | | | | |
| 204 | Other non-traumatic joint disorders | | | | | | | | | | | |
| | 7130 | 7131 | 7132 | 7133 | 7134 | 7135 | 7136 | 7137 | 7138 | 71600 | 71601 | 71602 |
| | 71603 | 71604 | 71605 | 71606 | 71607 | 71608 | 71609 | 71620 | 71621 | 71622 | 71623 | 71624 |
| | 71625 | 71626 | 71627 | 71628 | 71629 | 71630 | 71631 | 71632 | 71633 | 71634 | 71635 | 71636 |
| | 71637 | 71638 | 71639 | 71640 | 71641 | 71642 | 71643 | 71644 | 71645 | 71646 | 71647 | 71648 |
| | 71649 | 71650 | 71651 | 71652 | 71653 | 71654 | 71655 | 71656 | 71657 | 71658 | 71659 | 71660 |
| | 71661 | 71662 | 71663 | 71664 | 71665 | 71666 | 71667 | 71668 | 71680 | 71681 | 71682 | 71683 |
| | 71684 | 71685 | 71686 | 71687 | 71688 | 71689 | 71690 | 71691 | 71692 | 71693 | 71694 | 71695 |
| | 71696 | 71697 | 71698 | 71699 | 71810 | 71811 | 71812 | 71813 | 71814 | 71815 | 71817 | 71818 |
| | 71819 | 71820 | 71821 | 71822 | 71823 | 71824 | 71825 | 71826 | 71827 | 71828 | 71829 | 71850 |
| | 71851 | 71852 | 71853 | 71854 | 71855 | 71856 | 71857 | 71858 | 71859 | 71865 | 71870 | 71871 |
| | 71872 | 71873 | 71874 | 71875 | 71876 | 71877 | 71878 | 71879 | 71880 | 71881 | 71882 | 71883 |
| | 71884 | 71885 | 71886 | 71887 | 71888 | 71889 | 71890 | 71891 | 71892 | 71893 | 71894 | 71895 |
| | 71897 | 71898 | 71899 | 71900 | 71901 | 71902 | 71903 | 71904 | 71905 | 71906 | 71907 | 71908 |
| | 71909 | 71910 | 71911 | 71912 | 71913 | 71914 | 71915 | 71916 | 71917 | 71918 | 71919 | 71920 |
| | 71921 | 71922 | 71923 | 71924 | 71925 | 71926 | 71927 | 71928 | 71929 | 71930 | 71931 | 71932 |
| | 71933 | 71934 | 71935 | 71936 | 71937 | 71938 | 71939 | 71940 | 71941 | 71942 | 71943 | 71944 |

| | | | | | | | | | | | | |
|------------|------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 71945 | 71946 | 71947 | 71948 | 71949 | 71950 | 71951 | 71952 | 71953 | 71954 | 71955 | 71956 |
| | 71957 | 71958 | 71959 | 71960 | 71961 | 71962 | 71963 | 71964 | 71965 | 71966 | 71967 | 71968 |
| | 71969 | 7197 | 71970 | 71975 | 71976 | 71977 | 71978 | 71979 | 71980 | 71981 | 71982 | 71983 |
| | 71984 | 71985 | 71986 | 71987 | 71988 | 71989 | 71990 | 71991 | 71992 | 71993 | 71994 | 71995 |
| | 71996 | 71997 | 71998 | 71999 | | | | | | | | |
| 205 | Spondylosis; intervertebral disc disorders; other back problems | | | | | | | | | | | |
| | 7201 | 7202 | 72081 | 72089 | 7209 | 7210 | 7211 | 7212 | 7213 | 72141 | 72142 | 7215 |
| | 7216 | 7217 | 7218 | 72190 | 72191 | 7220 | 72210 | 72211 | 7222 | 72230 | 72231 | 72232 |
| | 72239 | 7224 | 72251 | 72252 | 7226 | 72270 | 72271 | 72272 | 72273 | 72280 | 72281 | 72282 |
| | 72283 | 72290 | 72291 | 72292 | 72293 | 7230 | 7231 | 7232 | 7233 | 7234 | 7235 | 7236 |
| | 7237 | 7238 | 7239 | 72400 | 72401 | 72402 | 72409 | 7241 | 7242 | 7243 | 7244 | 7245 |
| | 7246 | 72470 | 72471 | 72479 | 7248 | 7249 | | | | | | |
| 206 | Osteoporosis | | | | | | | | | | | |
| | 73300 | 73301 | 73302 | 73303 | 73309 | | | | | | | |
| 207 | Pathological fracture | | | | | | | | | | | |
| | 7331 | 73310 | 73311 | 73312 | 73313 | 73314 | 73315 | 73316 | 73319 | 73393 | 73394 | 73395 |
| | 73396 | 73397 | 73398 | V1351 | | | | | | | | |
| 208 | Acquired foot deformities | | | | | | | | | | | |
| | 7271 | 734 | 7350 | 7351 | 7352 | 7353 | 7354 | 7355 | 7358 | 7359 | 73670 | 73671 |
| | 73672 | 73673 | 73674 | 73675 | 73676 | 73679 | | | | | | |
| 209 | Other acquired deformities | | | | | | | | | | | |
| | 71840 | 71841 | 71842 | 71843 | 71844 | 71845 | 71846 | 71847 | 71848 | 71849 | 73600 | 73601 |
| | 73602 | 73603 | 73604 | 73605 | 73606 | 73607 | 73609 | 7361 | 73620 | 73621 | 73622 | 73629 |
| | 73630 | 73631 | 73632 | 73639 | 73641 | 73642 | 7365 | 7366 | 73681 | 73689 | 7369 | 7370 |
| | 73710 | 73711 | 73712 | 73719 | 73720 | 73721 | 73722 | 73729 | 73733 | 73734 | 73739 | 73740 |
| | 73741 | 73742 | 73743 | 7378 | 7379 | 7380 | 7381 | 73810 | 73811 | 73812 | 73819 | 7382 |
| | 7383 | 7384 | 7385 | 7386 | 7387 | 7388 | 7389 | | | | | |
| 210 | Systemic lupus erythematosus and connective tissue disorders | | | | | | | | | | | |
| | 7100 | 7101 | 7102 | 7103 | 7104 | 7108 | 7109 | | | | | |
| 211 | Other connective tissue disease | | | | | | | | | | | |
| | 32752 | 56731 | 7105 | 725 | 7260 | 72610 | 72611 | 72612 | 72619 | 7262 | 72630 | 72631 |
| | 72632 | 72633 | 72639 | 7264 | 7265 | 72660 | 72661 | 72662 | 72663 | 72664 | 72665 | 72669 |
| | 72670 | 72671 | 72672 | 72673 | 72679 | 7268 | 72690 | 72691 | 72700 | 72701 | 72702 | 72703 |
| | 72704 | 72705 | 72706 | 72709 | 7272 | 7273 | 72740 | 72741 | 72742 | 72743 | 72749 | 72750 |
| | 72751 | 72759 | 72760 | 72761 | 72762 | 72763 | 72764 | 72765 | 72766 | 72767 | 72768 | 72769 |
| | 72781 | 72782 | 72783 | 72789 | 7279 | 7280 | 72810 | 72811 | 72812 | 72813 | 72819 | 7282 |
| | 7283 | 7284 | 7285 | 7286 | 72871 | 72879 | 72881 | 72882 | 72883 | 72884 | 72885 | 72886 |
| | 72887 | 72888 | 72889 | 7289 | 7290 | 7291 | 7292 | 72930 | 72931 | 72939 | 7294 | 7295 |
| | 7296 | 72981 | 72982 | 72989 | 7299 | 72991 | 72992 | 7819 | 78191 | 78192 | 78194 | 78199 |
| | 7937 | V135 | V1359 | V436 | V4360 | V4361 | V4362 | V4363 | V4364 | V4365 | V4366 | V4369 |
| | V437 | V454 | V481 | V482 | V483 | V490 | V491 | V492 | V495 | V4960 | V4961 | V4962 |
| | V4963 | V4964 | V4965 | V4966 | V4967 | V4970 | V4971 | V4972 | V4973 | V4974 | V4975 | V4976 |
| | V4977 | V537 | | | | | | | | | | |
| 212 | Other bone disease and musculoskeletal deformities | | | | | | | | | | | |
| | 7310 | 7311 | 7312 | 7318 | 7320 | 7321 | 7322 | 7323 | 7324 | 7325 | 7326 | 7327 |
| | 7328 | 7329 | 73320 | 73321 | 73322 | 73329 | 7333 | 73340 | 73341 | 73342 | 73343 | 73344 |

| | | | | | | | | | | | |
|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 73345 | 73349 | 7335 | 7336 | 7337 | 73381 | 73382 | 73390 | 73391 | 73392 | 73399 | 73730 |
| 73731 | 73732 | 7390 | 7391 | 7392 | 7393 | 7394 | 7395 | 7396 | 7397 | 7398 | 7399 |
| V424 | V486 | V487 | V494 | V8821 | V8822 | V8829 | | | | | |

213 Cardiac and circulatory congenital anomalies

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 7450 | 74510 | 74511 | 74512 | 74519 | 7452 | 7453 | 7454 | 7455 | 74560 | 74561 | 74569 |
| 7457 | 7458 | 7459 | 74600 | 74601 | 74602 | 74609 | 7461 | 7462 | 7463 | 7464 | 7465 |
| 7466 | 7467 | 74681 | 74682 | 74683 | 74684 | 74685 | 74686 | 74687 | 74689 | 7469 | 7470 |
| 74710 | 74711 | 74720 | 74721 | 74722 | 74729 | 74732 | 74740 | 74741 | 74742 | 74749 | 7475 |
| 7476 | 74760 | 74761 | 74762 | 74763 | 74764 | 74769 | 74781 | 74782 | 74783 | 74789 | 7479 |
| V1365 | | | | | | | | | | | |

214 Digestive congenital anomalies

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 7500 | 75010 | 75011 | 75012 | 75013 | 75015 | 75016 | 75019 | 75021 | 75022 | 75023 | 75024 |
| 75025 | 75026 | 75027 | 75029 | 7503 | 7504 | 7505 | 7506 | 7507 | 7508 | 7509 | 7510 |
| 7511 | 7512 | 7513 | 7514 | 7515 | 75160 | 75161 | 75162 | 75169 | 7517 | 7518 | 7519 |
| V1367 | | | | | | | | | | | |

215 Genitourinary congenital anomalies

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 7520 | 75210 | 75211 | 75219 | 7522 | 7523 | 75231 | 75232 | 75233 | 75234 | 75235 | 75236 |
| 75239 | 75240 | 75241 | 75242 | 75243 | 75244 | 75245 | 75246 | 75247 | 75249 | 7525 | 75251 |
| 75252 | 7526 | 75261 | 75262 | 75263 | 75264 | 75265 | 75269 | 7527 | 7528 | 75281 | 75289 |
| 7529 | 7530 | 7531 | 75310 | 75311 | 75312 | 75313 | 75314 | 75315 | 75316 | 75317 | 75319 |
| 7532 | 75320 | 75321 | 75322 | 75323 | 75329 | 7533 | 7534 | 7535 | 7536 | 7537 | 7538 |
| 7539 | V1361 | V1362 | | | | | | | | | |

216 Nervous system congenital anomalies

| | | | | | | | | | | | |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 7400 | 7401 | 7402 | 74100 | 74101 | 74102 | 74103 | 74190 | 74191 | 74192 | 74193 | 7420 |
| 7421 | 7422 | 7423 | 7424 | 74251 | 74253 | 74259 | 7428 | 7429 | V1363 | | |

217 Other congenital anomalies

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74300 | 74303 | 74306 | 74310 | 74311 | 74312 | 74320 | 74321 | 74322 | 74330 | 74331 | 74332 |
| 74333 | 74334 | 74335 | 74336 | 74337 | 74339 | 74341 | 74342 | 74343 | 74344 | 74345 | 74346 |
| 74347 | 74348 | 74349 | 74351 | 74352 | 74353 | 74354 | 74355 | 74356 | 74357 | 74358 | 74359 |
| 74361 | 74362 | 74363 | 74364 | 74365 | 74366 | 74369 | 7438 | 7439 | 74400 | 74401 | 74402 |
| 74403 | 74404 | 74405 | 74409 | 7441 | 74421 | 74422 | 74423 | 74424 | 74429 | 7443 | 74441 |
| 74442 | 74443 | 74446 | 74447 | 74449 | 7445 | 74481 | 74482 | 74483 | 74484 | 74489 | 7449 |
| 7480 | 7481 | 7482 | 7483 | 7484 | 7485 | 74860 | 74861 | 74869 | 7488 | 7489 | 74900 |
| 74901 | 74902 | 74903 | 74904 | 74910 | 74911 | 74912 | 74913 | 74914 | 74920 | 74921 | 74922 |
| 74923 | 74924 | 74925 | 7540 | 7541 | 7542 | 75430 | 75431 | 75432 | 75433 | 75435 | 75440 |
| 75441 | 75442 | 75443 | 75444 | 75450 | 75451 | 75452 | 75453 | 75459 | 75460 | 75461 | 75462 |
| 75469 | 75470 | 75471 | 75479 | 75481 | 75482 | 75489 | 75500 | 75501 | 75502 | 75510 | 75511 |
| 75512 | 75513 | 75514 | 75520 | 75521 | 75522 | 75523 | 75524 | 75525 | 75526 | 75527 | 75528 |
| 75529 | 75530 | 75531 | 75532 | 75533 | 75534 | 75535 | 75536 | 75537 | 75538 | 75539 | 7554 |
| 75550 | 75551 | 75552 | 75553 | 75554 | 75555 | 75556 | 75557 | 75558 | 75559 | 75560 | 75561 |
| 75562 | 75563 | 75564 | 75565 | 75566 | 75567 | 75569 | 7558 | 7559 | 7560 | 75610 | 75611 |
| 75612 | 75613 | 75614 | 75615 | 75616 | 75617 | 75619 | 7562 | 7563 | 7564 | 75650 | 75651 |
| 75652 | 75653 | 75654 | 75655 | 75656 | 75659 | 7566 | 7567 | 75670 | 75671 | 75672 | 75673 |
| 75679 | 75681 | 75682 | 75683 | 75689 | 7569 | 7570 | 7571 | 7572 | 75731 | 75732 | 75733 |
| 75739 | 7574 | 7575 | 7576 | 7578 | 7579 | 7580 | 7581 | 7582 | 7583 | 75831 | 75832 |
| 75833 | 75839 | 7584 | 7585 | 7586 | 7587 | 7588 | 75881 | 75889 | 7589 | 7590 | 7591 |
| 7592 | 7593 | 7594 | 7595 | 7596 | 7597 | 7598 | 75981 | 75982 | 75983 | 75989 | 7599 |
| 7952 | V136 | V1364 | V1366 | V1368 | V1369 | | | | | | |

| | | | | | | | | | | | | | |
|-------|-----------------------------------------------------------------|--------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 218 | Liveborn | | | | | | | | | | | | |
| | 76520 | 76529 | V300 | V3000 | V3001 | V301 | V302 | V310 | V3100 | V3101 | V311 | V312 | |
| | V320 | V3200 | V3201 | V321 | V322 | V330 | V3300 | V3301 | V331 | V332 | V340 | V3400 | |
| | V3401 | V341 | V342 | V350 | V3500 | V3501 | V351 | V352 | V360 | V3600 | V3601 | V361 | |
| | V362 | V370 | V3700 | V3701 | V371 | V372 | V390 | V3900 | V3901 | V391 | V392 | | |
| 219 | Short gestation; low birth weight; and fetal growth retardation | | | | | | | | | | | | |
| | 7640 | 76400 | 76401 | 76402 | 76403 | 76404 | 76405 | 76406 | 76407 | 76408 | 76409 | 7641 | |
| | 76410 | 76411 | 76412 | 76413 | 76414 | 76415 | 76416 | 76417 | 76418 | 76419 | 7642 | 76420 | |
| | 76421 | 76422 | 76423 | 76424 | 76425 | 76426 | 76427 | 76428 | 76429 | 7649 | 76490 | 76491 | |
| | 76492 | 76493 | 76494 | 76495 | 76496 | 76497 | 76498 | 76499 | 7650 | 76500 | 76501 | 76502 | |
| | 76503 | 76504 | 76505 | 76506 | 76507 | 76508 | 76509 | 7651 | 76510 | 76511 | 76512 | 76513 | |
| | 76514 | 76515 | 76516 | 76517 | 76518 | 76519 | 76521 | 76522 | 76523 | 76524 | 76525 | 76526 | |
| | 76527 | 76528 | V2130 | V2131 | V2132 | V2133 | V2134 | V2135 | | | | | |
| 220 | Intrauterine hypoxia and birth asphyxia | | | | | | | | | | | | |
| | 7680 | 7681 | 7682 | 7683 | 7684 | 7685 | 7686 | 76870 | 76871 | 76872 | 76873 | 7689 | |
| 221 | Respiratory distress syndrome | | | | | | | | | | | | |
| | 769 | | | | | | | | | | | | |
| 222 | Hemolytic jaundice and perinatal jaundice | | | | | | | | | | | | |
| | 7730 | 7731 | 7732 | 7733 | 7734 | 7735 | 7740 | 7741 | 7742 | 77430 | 77431 | 77439 | |
| | 7744 | 7745 | 7746 | 7747 | | | | | | | | | |
| 223 | Birth trauma | | | | | | | | | | | | |
| | 7670 | 7671 | 76711 | 76719 | 7672 | 7673 | 7674 | 7675 | 7676 | 7677 | 7678 | 7679 | |
| 224 | Other perinatal conditions | | | | | | | | | | | | |
| | 04041 | 7600 | 7601 | 7602 | 7603 | 7604 | 7605 | 7606 | 76061 | 76062 | 76063 | 76064 | |
| | 76070 | 76071 | 76072 | 76073 | 76074 | 76075 | 76076 | 76077 | 76078 | 76079 | 7608 | 7609 | |
| | 7610 | 7611 | 7612 | 7613 | 7614 | 7615 | 7616 | 7617 | 7618 | 7619 | 7620 | 7621 | |
| | 7622 | 7623 | 7624 | 7625 | 7626 | 7627 | 7628 | 7629 | 7630 | 7631 | 7632 | 7633 | |
| | 7634 | 7635 | 7636 | 7637 | 7638 | 76381 | 76382 | 76383 | 76384 | 76389 | 7639 | 7660 | |
| | 7661 | 7662 | 76621 | 76622 | 7700 | 7701 | 77010 | 77011 | 77012 | 77013 | 77014 | 77015 | |
| | 77016 | 77017 | 77018 | 7702 | 7703 | 7704 | 7705 | 7706 | 7707 | 7708 | 77081 | 77082 | |
| | 77083 | 77084 | 77085 | 77086 | 77089 | 7709 | 7710 | 7711 | 7712 | 7713 | 7714 | 7715 | |
| | 7716 | 7717 | 7718 | 77182 | 77183 | 77189 | 7720 | 7721 | 77210 | 77211 | 77212 | 77213 | |
| | 77214 | 7722 | 7723 | 7724 | 7725 | 7726 | 7728 | 7729 | 7750 | 7751 | 7752 | 7753 | |
| | 7754 | 7755 | 7756 | 7757 | 7758 | 7759 | 7760 | 7761 | 7762 | 7763 | 7764 | 7765 | |
| | 7766 | 7767 | 7768 | 7769 | 7771 | 7772 | 7773 | 7774 | 7775 | 77750 | 77751 | 77752 | |
| | 77753 | 7776 | 7778 | 7779 | 7780 | 7781 | 7782 | 7783 | 7784 | 7785 | 7786 | 7787 | |
| | 7788 | 7789 | 7790 | 7791 | 7792 | 7793 | 77931 | 77932 | 77933 | 7794 | 7795 | 7796 | |
| | 7797 | 7798 | 77981 | 77982 | 77983 | 77984 | 77989 | 7799 | 78091 | 78092 | 7897 | V137 | |
| | | V502 | | | | | | | | | | | |
| | 225 | Joint disorders and dislocations; trauma-related | | | | | | | | | | | |
| | | 71610 | 71611 | 71612 | 71613 | 71614 | 71615 | 71616 | 71617 | 71618 | 71619 | 7170 | 7171 |
| | | 7172 | 7173 | 71740 | 71741 | 71742 | 71743 | 71749 | 7175 | 7176 | 7177 | 71781 | 71782 |
| 71783 | | 71784 | 71785 | 71789 | 7179 | 71800 | 71801 | 71802 | 71803 | 71804 | 71805 | 71807 | |
| 71808 | | 71809 | 71830 | 71831 | 71832 | 71833 | 71834 | 71835 | 71836 | 71837 | 71838 | 71839 | |
| 8300 | | 8301 | 83100 | 83101 | 83102 | 83103 | 83104 | 83109 | 83110 | 83111 | 83112 | 83113 | |
| 83114 | | 83119 | 83200 | 83201 | 83202 | 83203 | 83204 | 83209 | 83210 | 83211 | 83212 | 83213 | |
| | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 83214 | 83219 | 83300 | 83301 | 83302 | 83303 | 83304 | 83305 | 83309 | 83310 | 83311 | 83312 |
| 83313 | 83314 | 83315 | 83319 | 83400 | 83401 | 83402 | 83410 | 83411 | 83412 | 83500 | 83501 |
| 83502 | 83503 | 83510 | 83511 | 83512 | 83513 | 8360 | 8361 | 8362 | 8363 | 8364 | 83650 |
| 83651 | 83652 | 83653 | 83654 | 83659 | 83660 | 83661 | 83662 | 83663 | 83664 | 83669 | 8370 |
| 8371 | 83800 | 83801 | 83802 | 83803 | 83804 | 83805 | 83806 | 83809 | 83810 | 83811 | 83812 |
| 83813 | 83814 | 83815 | 83816 | 83819 | 83900 | 83901 | 83902 | 83903 | 83904 | 83905 | 83906 |
| 83907 | 83908 | 83910 | 83911 | 83912 | 83913 | 83914 | 83915 | 83916 | 83917 | 83918 | 83920 |
| 83921 | 83930 | 83931 | 83940 | 83941 | 83942 | 83949 | 83950 | 83951 | 83952 | 83959 | 83961 |
| 83969 | 83971 | 83979 | 8398 | 8399 | 9056 | | | | | | |

226 Fracture of neck of femur (hip)

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 82000 | 82001 | 82002 | 82003 | 82009 | 82010 | 82011 | 82012 | 82013 | 82019 | 82020 | 82021 |
| 82022 | 82030 | 82031 | 82032 | 8208 | 8209 | 9053 | V5413 | V5423 | | | |

227 Spinal cord injury

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 34939 | 80600 | 80601 | 80602 | 80603 | 80604 | 80605 | 80606 | 80607 | 80608 | 80609 | 80610 |
| 80611 | 80612 | 80613 | 80614 | 80615 | 80616 | 80617 | 80618 | 80619 | 80620 | 80621 | 80622 |
| 80623 | 80624 | 80625 | 80626 | 80627 | 80628 | 80629 | 80630 | 80631 | 80632 | 80633 | 80634 |
| 80635 | 80636 | 80637 | 80638 | 80639 | 8064 | 8065 | 80660 | 80661 | 80662 | 80669 | 80670 |
| 80671 | 80672 | 80679 | 8068 | 8069 | 9072 | 95200 | 95201 | 95202 | 95203 | 95204 | 95205 |
| 95206 | 95207 | 95208 | 95209 | 95210 | 95211 | 95212 | 95213 | 95214 | 95215 | 95216 | 95217 |
| 95218 | 95219 | 9522 | 9523 | 9524 | 9528 | 9529 | | | | | |

228 Skull and face fractures

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 80000 | 80001 | 80002 | 80003 | 80004 | 80005 | 80006 | 80009 | 80050 | 80051 | 80052 | 80053 |
| 80054 | 80055 | 80056 | 80059 | 80100 | 80101 | 80102 | 80103 | 80104 | 80105 | 80106 | 80109 |
| 80150 | 80151 | 80152 | 80153 | 80154 | 80155 | 80156 | 80159 | 8020 | 8021 | 80220 | 80221 |
| 80222 | 80223 | 80224 | 80225 | 80226 | 80227 | 80228 | 80229 | 80230 | 80231 | 80232 | 80233 |
| 80234 | 80235 | 80236 | 80237 | 80238 | 80239 | 8024 | 8025 | 8026 | 8027 | 8028 | 8029 |
| 80300 | 80301 | 80302 | 80303 | 80304 | 80305 | 80306 | 80309 | 80350 | 80351 | 80352 | 80353 |
| 80354 | 80355 | 80356 | 80359 | 80400 | 80401 | 80402 | 80403 | 80404 | 80405 | 80406 | 80409 |
| 80450 | 80451 | 80452 | 80453 | 80454 | 80455 | 80456 | 80459 | 9050 | | | |

229 Fracture of upper limb

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 81000 | 81001 | 81002 | 81003 | 81010 | 81011 | 81012 | 81013 | 81100 | 81101 | 81102 | 81103 |
| 81109 | 81110 | 81111 | 81112 | 81113 | 81119 | 81200 | 81201 | 81202 | 81203 | 81209 | 81210 |
| 81211 | 81212 | 81213 | 81219 | 81220 | 81221 | 81230 | 81231 | 81240 | 81241 | 81242 | 81243 |
| 81244 | 81249 | 81250 | 81251 | 81252 | 81253 | 81254 | 81259 | 81300 | 81301 | 81302 | 81303 |
| 81304 | 81305 | 81306 | 81307 | 81308 | 81310 | 81311 | 81312 | 81313 | 81314 | 81315 | 81316 |
| 81317 | 81318 | 81320 | 81321 | 81322 | 81323 | 81330 | 81331 | 81332 | 81333 | 81340 | 81341 |
| 81342 | 81343 | 81344 | 81345 | 81347 | 81350 | 81351 | 81352 | 81353 | 81354 | 81380 | 81381 |
| 81382 | 81383 | 81390 | 81391 | 81392 | 81393 | 81400 | 81401 | 81402 | 81403 | 81404 | 81405 |
| 81406 | 81407 | 81408 | 81409 | 81410 | 81411 | 81412 | 81413 | 81414 | 81415 | 81416 | 81417 |
| 81418 | 81419 | 81500 | 81501 | 81502 | 81503 | 81504 | 81509 | 81510 | 81511 | 81512 | 81513 |
| 81514 | 81519 | 81600 | 81601 | 81602 | 81603 | 81610 | 81611 | 81612 | 81613 | 8170 | 8171 |
| 8180 | 8181 | 8190 | 8191 | 9052 | V5410 | V5411 | V5412 | V5420 | V5421 | V5422 | |

230 Fracture of lower limb

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 82100 | 82101 | 82110 | 82111 | 82120 | 82121 | 82122 | 82123 | 82129 | 82130 | 82131 | 82132 |
| 82133 | 82139 | 8220 | 8221 | 82300 | 82301 | 82302 | 82310 | 82311 | 82312 | 82320 | 82321 |
| 82322 | 82330 | 82331 | 82332 | 82340 | 82341 | 82342 | 82380 | 82381 | 82382 | 82390 | 82391 |
| 82392 | 8240 | 8241 | 8242 | 8243 | 8244 | 8245 | 8246 | 8247 | 8248 | 8249 | 8250 |
| 8251 | 82520 | 82521 | 82522 | 82523 | 82524 | 82525 | 82529 | 82530 | 82531 | 82532 | 82533 |
| 82534 | 82535 | 82539 | 8260 | 8261 | 8270 | 8271 | 9054 | V5414 | V5415 | V5416 | V5424 |

V5425 V5426

231 Other fractures

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 80500 | 80501 | 80502 | 80503 | 80504 | 80505 | 80506 | 80507 | 80508 | 80510 | 80511 | 80512 |
| 80513 | 80514 | 80515 | 80516 | 80517 | 80518 | 8052 | 8053 | 8054 | 8055 | 8056 | 8057 |
| 8058 | 8059 | 80700 | 80701 | 80702 | 80703 | 80704 | 80705 | 80706 | 80707 | 80708 | 80709 |
| 80710 | 80711 | 80712 | 80713 | 80714 | 80715 | 80716 | 80717 | 80718 | 80719 | 8072 | 8073 |
| 8074 | 8075 | 8076 | 8080 | 8081 | 8082 | 8083 | 80841 | 80842 | 80843 | 80844 | 80849 |
| 80851 | 80852 | 80853 | 80854 | 80859 | 8088 | 8089 | 8090 | 8091 | 8280 | 8281 | 8290 |
| 8291 | 9051 | 9055 | V1352 | V540 | V5401 | V5402 | V5409 | V5417 | V5419 | V5427 | V5429 |
| V664 | V674 | | | | | | | | | | |

232 Sprains and strains

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8400 | 8401 | 8402 | 8403 | 8404 | 8405 | 8406 | 8407 | 8408 | 8409 | 8410 | 8411 |
| 8412 | 8413 | 8418 | 8419 | 84200 | 84201 | 84202 | 84209 | 84210 | 84211 | 84212 | 84213 |
| 84219 | 8430 | 8431 | 8438 | 8439 | 8440 | 8441 | 8442 | 8443 | 8448 | 8449 | 84500 |
| 84501 | 84502 | 84503 | 84509 | 84510 | 84511 | 84512 | 84513 | 84519 | 8460 | 8461 | 8462 |
| 8463 | 8468 | 8469 | 8470 | 8471 | 8472 | 8473 | 8474 | 8479 | 8480 | 8481 | 8482 |
| 8483 | 84840 | 84841 | 84842 | 84849 | 8485 | 8488 | 8489 | 9057 | | | |

233 Intracranial injury

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 80010 | 80011 | 80012 | 80013 | 80014 | 80015 | 80016 | 80019 | 80020 | 80021 | 80022 | 80023 |
| 80024 | 80025 | 80026 | 80029 | 80030 | 80031 | 80032 | 80033 | 80034 | 80035 | 80036 | 80039 |
| 80040 | 80041 | 80042 | 80043 | 80044 | 80045 | 80046 | 80049 | 80060 | 80061 | 80062 | 80063 |
| 80064 | 80065 | 80066 | 80069 | 80070 | 80071 | 80072 | 80073 | 80074 | 80075 | 80076 | 80079 |
| 80080 | 80081 | 80082 | 80083 | 80084 | 80085 | 80086 | 80089 | 80090 | 80091 | 80092 | 80093 |
| 80094 | 80095 | 80096 | 80099 | 80110 | 80111 | 80112 | 80113 | 80114 | 80115 | 80116 | 80119 |
| 80120 | 80121 | 80122 | 80123 | 80124 | 80125 | 80126 | 80129 | 80130 | 80131 | 80132 | 80133 |
| 80134 | 80135 | 80136 | 80139 | 80140 | 80141 | 80142 | 80143 | 80144 | 80145 | 80146 | 80149 |
| 80160 | 80161 | 80162 | 80163 | 80164 | 80165 | 80166 | 80169 | 80170 | 80171 | 80172 | 80173 |
| 80174 | 80175 | 80176 | 80179 | 80180 | 80181 | 80182 | 80183 | 80184 | 80185 | 80186 | 80189 |
| 80190 | 80191 | 80192 | 80193 | 80194 | 80195 | 80196 | 80199 | 80310 | 80311 | 80312 | 80313 |
| 80314 | 80315 | 80316 | 80319 | 80320 | 80321 | 80322 | 80323 | 80324 | 80325 | 80326 | 80329 |
| 80330 | 80331 | 80332 | 80333 | 80334 | 80335 | 80336 | 80339 | 80340 | 80341 | 80342 | 80343 |
| 80344 | 80345 | 80346 | 80349 | 80360 | 80361 | 80362 | 80363 | 80364 | 80365 | 80366 | 80369 |
| 80370 | 80371 | 80372 | 80373 | 80374 | 80375 | 80376 | 80379 | 80380 | 80381 | 80382 | 80383 |
| 80384 | 80385 | 80386 | 80389 | 80390 | 80391 | 80392 | 80393 | 80394 | 80395 | 80396 | 80399 |
| 80410 | 80411 | 80412 | 80413 | 80414 | 80415 | 80416 | 80419 | 80420 | 80421 | 80422 | 80423 |
| 80424 | 80425 | 80426 | 80429 | 80430 | 80431 | 80432 | 80433 | 80434 | 80435 | 80436 | 80439 |
| 80440 | 80441 | 80442 | 80443 | 80444 | 80445 | 80446 | 80449 | 80460 | 80461 | 80462 | 80463 |
| 80464 | 80465 | 80466 | 80469 | 80470 | 80471 | 80472 | 80473 | 80474 | 80475 | 80476 | 80479 |
| 80480 | 80481 | 80482 | 80483 | 80484 | 80485 | 80486 | 80489 | 80490 | 80491 | 80492 | 80493 |
| 80494 | 80495 | 80496 | 80499 | 8500 | 8501 | 85011 | 85012 | 8502 | 8503 | 8504 | 8505 |
| 8509 | 85100 | 85101 | 85102 | 85103 | 85104 | 85105 | 85106 | 85109 | 85110 | 85111 | 85112 |
| 85113 | 85114 | 85115 | 85116 | 85119 | 85120 | 85121 | 85122 | 85123 | 85124 | 85125 | 85126 |
| 85129 | 85130 | 85131 | 85132 | 85133 | 85134 | 85135 | 85136 | 85139 | 85140 | 85141 | 85142 |
| 85143 | 85144 | 85145 | 85146 | 85149 | 85150 | 85151 | 85152 | 85153 | 85154 | 85155 | 85156 |
| 85159 | 85160 | 85161 | 85162 | 85163 | 85164 | 85165 | 85166 | 85169 | 85170 | 85171 | 85172 |
| 85173 | 85174 | 85175 | 85176 | 85179 | 85180 | 85181 | 85182 | 85183 | 85184 | 85185 | 85186 |
| 85189 | 85190 | 85191 | 85192 | 85193 | 85194 | 85195 | 85196 | 85199 | 85200 | 85201 | 85202 |
| 85203 | 85204 | 85205 | 85206 | 85209 | 85210 | 85211 | 85212 | 85213 | 85214 | 85215 | 85216 |
| 85219 | 85220 | 85221 | 85222 | 85223 | 85224 | 85225 | 85226 | 85229 | 85230 | 85231 | 85232 |
| 85233 | 85234 | 85235 | 85236 | 85239 | 85240 | 85241 | 85242 | 85243 | 85244 | 85245 | 85246 |
| 85249 | 85250 | 85251 | 85252 | 85253 | 85254 | 85255 | 85256 | 85259 | 85300 | 85301 | 85302 |

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 85303 | 85304 | 85305 | 85306 | 85309 | 85310 | 85311 | 85312 | 85313 | 85314 | 85315 | 85316 |
| 85319 | 85400 | 85401 | 85402 | 85403 | 85404 | 85405 | 85406 | 85409 | 85410 | 85411 | 85412 |
| 85413 | 85414 | 85415 | 85416 | 85419 | 9070 | V1552 | | | | | |

234 Crushing injury or internal injury

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8600 | 8601 | 8602 | 8603 | 8604 | 8605 | 86100 | 86101 | 86102 | 86103 | 86110 | 86111 |
| 86112 | 86113 | 86120 | 86121 | 86122 | 86130 | 86131 | 86132 | 8620 | 8621 | 86221 | 86222 |
| 86229 | 86231 | 86232 | 86239 | 8628 | 8629 | 8630 | 8631 | 86320 | 86321 | 86329 | 86330 |
| 86331 | 86339 | 86340 | 86341 | 86342 | 86343 | 86344 | 86345 | 86346 | 86349 | 86350 | 86351 |
| 86352 | 86353 | 86354 | 86355 | 86356 | 86359 | 86380 | 86381 | 86382 | 86383 | 86384 | 86385 |
| 86389 | 86390 | 86391 | 86392 | 86393 | 86394 | 86395 | 86399 | 86400 | 86401 | 86402 | 86403 |
| 86404 | 86405 | 86409 | 86410 | 86411 | 86412 | 86413 | 86414 | 86415 | 86419 | 86500 | 86501 |
| 86502 | 86503 | 86504 | 86509 | 86510 | 86511 | 86512 | 86513 | 86514 | 86519 | 86600 | 86601 |
| 86602 | 86603 | 86610 | 86611 | 86612 | 86613 | 8670 | 8671 | 8672 | 8673 | 8674 | 8675 |
| 8676 | 8677 | 8678 | 8679 | 86800 | 86801 | 86802 | 86803 | 86804 | 86809 | 86810 | 86811 |
| 86812 | 86813 | 86814 | 86819 | 8690 | 8691 | 90000 | 90001 | 90002 | 90003 | 9001 | 90081 |
| 90082 | 90089 | 9009 | 9010 | 9011 | 9012 | 9013 | 90140 | 90141 | 90142 | 90181 | 90182 |
| 90183 | 90189 | 9019 | 9020 | 90210 | 90211 | 90219 | 90220 | 90221 | 90222 | 90223 | 90224 |
| 90225 | 90226 | 90227 | 90229 | 90231 | 90232 | 90233 | 90234 | 90239 | 90240 | 90241 | 90242 |
| 90249 | 90250 | 90251 | 90252 | 90253 | 90254 | 90255 | 90256 | 90259 | 90281 | 90282 | 90287 |
| 90289 | 9029 | 90300 | 90301 | 90302 | 9031 | 9032 | 9033 | 9034 | 9035 | 9038 | 9039 |
| 9040 | 9041 | 9042 | 9043 | 90440 | 90441 | 90442 | 90450 | 90451 | 90452 | 90453 | 90454 |
| 9046 | 9047 | 9048 | 9049 | 9064 | 9080 | 9081 | 9082 | 9083 | 9084 | 925 | 9251 |
| 9252 | 9260 | 92611 | 92612 | 92619 | 9268 | 9269 | 92700 | 92701 | 92702 | 92703 | 92709 |
| 92710 | 92711 | 92720 | 92721 | 9273 | 9278 | 9279 | 92800 | 92801 | 92810 | 92811 | 92820 |
| 92821 | 9283 | 9288 | 9289 | 9290 | 9299 | | | | | | |

235 Open wounds of head; neck; and trunk

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8700 | 8701 | 8702 | 8703 | 8704 | 8708 | 8709 | 8710 | 8711 | 8712 | 8713 | 8714 |
| 8715 | 8716 | 8717 | 8719 | 87200 | 87201 | 87202 | 87210 | 87211 | 87212 | 87261 | 87262 |
| 87263 | 87264 | 87269 | 87271 | 87272 | 87273 | 87274 | 87279 | 8728 | 8729 | 8730 | 8731 |
| 87320 | 87321 | 87322 | 87323 | 87329 | 87330 | 87331 | 87332 | 87333 | 87339 | 87340 | 87341 |
| 87342 | 87343 | 87344 | 87349 | 87350 | 87351 | 87352 | 87353 | 87354 | 87359 | 87360 | 87361 |
| 87362 | 87363 | 87364 | 87365 | 87369 | 87370 | 87371 | 87372 | 87373 | 87374 | 87375 | 87379 |
| 8738 | 8739 | 87400 | 87401 | 87402 | 87410 | 87411 | 87412 | 8742 | 8743 | 8744 | 8745 |
| 8748 | 8749 | 8750 | 8751 | 8760 | 8761 | 8770 | 8771 | 8780 | 8781 | 8782 | 8783 |
| 8784 | 8785 | 8786 | 8787 | 8788 | 8789 | 8790 | 8791 | 8792 | 8793 | 8794 | 8795 |
| 8796 | 8797 | 8798 | 8799 | 9060 | | | | | | | |

236 Open wounds of extremities

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 88000 | 88001 | 88002 | 88003 | 88009 | 88010 | 88011 | 88012 | 88013 | 88019 | 88020 | 88021 |
| 88022 | 88023 | 88029 | 88100 | 88101 | 88102 | 88110 | 88111 | 88112 | 88120 | 88121 | 88122 |
| 8820 | 8821 | 8822 | 8830 | 8831 | 8832 | 8840 | 8841 | 8842 | 8850 | 8851 | 8860 |
| 8861 | 8870 | 8871 | 8872 | 8873 | 8874 | 8875 | 8876 | 8877 | 8900 | 8901 | 8902 |
| 8910 | 8911 | 8912 | 8920 | 8921 | 8922 | 8930 | 8931 | 8932 | 8940 | 8941 | 8942 |
| 8950 | 8951 | 8960 | 8961 | 8962 | 8963 | 8970 | 8971 | 8972 | 8973 | 8974 | 8975 |
| 8976 | 8977 | 9058 | 9059 | 9061 | | | | | | | |

237 Complication of device; implant or graft

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 27950 | 27951 | 27952 | 27953 | 41402 | 41403 | 41404 | 41405 | 41407 | 44030 | 44031 | 44032 |
| 56960 | 56961 | 56969 | 59682 | 59683 | 62931 | 62932 | 99600 | 99601 | 99602 | 99603 | 99604 |
| 99609 | 9961 | 9962 | 99630 | 99631 | 99632 | 99639 | 9964 | 99640 | 99641 | 99642 | 99643 |
| 99644 | 99645 | 99646 | 99647 | 99649 | 99651 | 99652 | 99653 | 99654 | 99655 | 99656 | 99657 |
| 99659 | 9966 | 99660 | 99661 | 99662 | 99663 | 99664 | 99665 | 99666 | 99667 | 99668 | 99669 |

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9967 | 99670 | 99671 | 99672 | 99673 | 99674 | 99675 | 99676 | 99677 | 99678 | 99679 | 99680 |
| 99681 | 99682 | 99683 | 99684 | 99685 | 99686 | 99687 | 99688 | 99689 | 99690 | 99691 | 99692 |
| 99693 | 99694 | 99695 | 99696 | 99699 | 99931 | 99932 | 99933 | | | | |

238 Complications of surgical procedures or medical care

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 27661 | 27783 | 27788 | 2853 | 28741 | 3490 | 3491 | 34931 | 41511 | 4294 | 4582 | 45821 |
| 45829 | 5121 | 5122 | 5190 | 51900 | 51901 | 51902 | 51909 | 53086 | 53087 | 53640 | 53641 |
| 53642 | 53649 | 53901 | 53909 | 53981 | 53989 | 5642 | 5643 | 5644 | 5696 | 56962 | 56971 |
| 56979 | 5793 | 59681 | 78062 | 78063 | 78066 | 9093 | 99524 | 9954 | 99586 | 9970 | 99700 |
| 99701 | 99702 | 99709 | 9971 | 9972 | 9973 | 99731 | 99732 | 99739 | 99741 | 99749 | 9975 |
| 99760 | 99761 | 99762 | 99769 | 99771 | 99772 | 99779 | 9979 | 99791 | 99799 | 99800 | 99801 |
| 99802 | 99809 | 9981 | 99811 | 99812 | 99813 | 9982 | 9983 | 99831 | 99832 | 99833 | 9984 |
| 9985 | 99851 | 99859 | 9986 | 9987 | 9988 | 99881 | 99882 | 99883 | 99889 | 9989 | 9990 |
| 9991 | 9992 | 9993 | 99934 | 99939 | 99941 | 99942 | 99949 | 99951 | 99952 | 9996 | 99960 |
| 99961 | 99962 | 99963 | 99969 | 9997 | 99970 | 99971 | 99972 | 99973 | 99974 | 99975 | 99976 |
| 99977 | 99978 | 99979 | 9998 | 99980 | 99981 | 99982 | 99983 | 99984 | 99985 | 99988 | 9999 |
| V1553 | V1580 | V1583 | V9001 | V9009 | | | | | | | |

239 Superficial injury; contusion

| | | | | | | | | | | | |
|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9062 | 9063 | 9100 | 9101 | 9102 | 9103 | 9104 | 9105 | 9106 | 9107 | 9108 | 9109 |
| 9110 | 9111 | 9112 | 9113 | 9114 | 9115 | 9116 | 9117 | 9118 | 9119 | 9120 | 9121 |
| 9122 | 9123 | 9124 | 9125 | 9126 | 9127 | 9128 | 9129 | 9130 | 9131 | 9132 | 9133 |
| 9134 | 9135 | 9136 | 9137 | 9138 | 9139 | 9140 | 9141 | 9142 | 9143 | 9144 | 9145 |
| 9146 | 9147 | 9148 | 9149 | 9150 | 9151 | 9152 | 9153 | 9154 | 9155 | 9156 | 9157 |
| 9158 | 9159 | 9160 | 9161 | 9162 | 9163 | 9164 | 9165 | 9166 | 9167 | 9168 | 9169 |
| 9170 | 9171 | 9172 | 9173 | 9174 | 9175 | 9176 | 9177 | 9178 | 9179 | 9180 | 9181 |
| 9182 | 9189 | 9190 | 9191 | 9192 | 9193 | 9194 | 9195 | 9196 | 9197 | 9198 | 9199 |
| 920 | 9210 | 9211 | 9212 | 9213 | 9219 | 9220 | 9221 | 9222 | 9223 | 92231 | 92232 |
| 92233 | 9224 | 9228 | 9229 | 92300 | 92301 | 92302 | 92303 | 92309 | 92310 | 92311 | 92320 |
| 92321 | 9233 | 9238 | 9239 | 92400 | 92401 | 92410 | 92411 | 92420 | 92421 | 9243 | 9244 |
| 9245 | 9248 | 9249 | | | | | | | | | |

240 Burns

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9065 | 9066 | 9067 | 9068 | 9069 | 9400 | 9401 | 9402 | 9403 | 9404 | 9405 | 9409 |
| 94100 | 94101 | 94102 | 94103 | 94104 | 94105 | 94106 | 94107 | 94108 | 94109 | 94110 | 94111 |
| 94112 | 94113 | 94114 | 94115 | 94116 | 94117 | 94118 | 94119 | 94120 | 94121 | 94122 | 94123 |
| 94124 | 94125 | 94126 | 94127 | 94128 | 94129 | 94130 | 94131 | 94132 | 94133 | 94134 | 94135 |
| 94136 | 94137 | 94138 | 94139 | 94140 | 94141 | 94142 | 94143 | 94144 | 94145 | 94146 | 94147 |
| 94148 | 94149 | 94150 | 94151 | 94152 | 94153 | 94154 | 94155 | 94156 | 94157 | 94158 | 94159 |
| 94200 | 94201 | 94202 | 94203 | 94204 | 94205 | 94209 | 94210 | 94211 | 94212 | 94213 | 94214 |
| 94215 | 94219 | 94220 | 94221 | 94222 | 94223 | 94224 | 94225 | 94229 | 94230 | 94231 | 94232 |
| 94233 | 94234 | 94235 | 94239 | 94240 | 94241 | 94242 | 94243 | 94244 | 94245 | 94249 | 94250 |
| 94251 | 94252 | 94253 | 94254 | 94255 | 94259 | 94300 | 94301 | 94302 | 94303 | 94304 | 94305 |
| 94306 | 94309 | 94310 | 94311 | 94312 | 94313 | 94314 | 94315 | 94316 | 94319 | 94320 | 94321 |
| 94322 | 94323 | 94324 | 94325 | 94326 | 94329 | 94330 | 94331 | 94332 | 94333 | 94334 | 94335 |
| 94336 | 94339 | 94340 | 94341 | 94342 | 94343 | 94344 | 94345 | 94346 | 94349 | 94350 | 94351 |
| 94352 | 94353 | 94354 | 94355 | 94356 | 94359 | 94400 | 94401 | 94402 | 94403 | 94404 | 94405 |
| 94406 | 94407 | 94408 | 94410 | 94411 | 94412 | 94413 | 94414 | 94415 | 94416 | 94417 | 94418 |
| 94420 | 94421 | 94422 | 94423 | 94424 | 94425 | 94426 | 94427 | 94428 | 94430 | 94431 | 94432 |
| 94433 | 94434 | 94435 | 94436 | 94437 | 94438 | 94440 | 94441 | 94442 | 94443 | 94444 | 94445 |
| 94446 | 94447 | 94448 | 94450 | 94451 | 94452 | 94453 | 94454 | 94455 | 94456 | 94457 | 94458 |
| 94500 | 94501 | 94502 | 94503 | 94504 | 94505 | 94506 | 94509 | 94510 | 94511 | 94512 | 94513 |
| 94514 | 94515 | 94516 | 94519 | 94520 | 94521 | 94522 | 94523 | 94524 | 94525 | 94526 | 94529 |

| | | | | | | | | | | | | |
|------------|-------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 94530 | 94531 | 94532 | 94533 | 94534 | 94535 | 94536 | 94539 | 94540 | 94541 | 94542 | 94543 |
| | 94544 | 94545 | 94546 | 94549 | 94550 | 94551 | 94552 | 94553 | 94554 | 94555 | 94556 | 94559 |
| | 9460 | 9461 | 9462 | 9463 | 9464 | 9465 | 9470 | 9471 | 9472 | 9473 | 9474 | 9478 |
| | 9479 | 94800 | 94810 | 94811 | 94820 | 94821 | 94822 | 94830 | 94831 | 94832 | 94833 | 94840 |
| | 94841 | 94842 | 94843 | 94844 | 94850 | 94851 | 94852 | 94853 | 94854 | 94855 | 94860 | 94861 |
| | 94862 | 94863 | 94864 | 94865 | 94866 | 94870 | 94871 | 94872 | 94873 | 94874 | 94875 | 94876 |
| | 94877 | 94880 | 94881 | 94882 | 94883 | 94884 | 94885 | 94886 | 94887 | 94888 | 94890 | 94891 |
| | 94892 | 94893 | 94894 | 94895 | 94896 | 94897 | 94898 | 94899 | 9490 | 9491 | 9492 | 9493 |
| | 9494 | 9495 | | | | | | | | | | |
| 241 | Poisoning by psychotropic agents | | | | | | | | | | | |
| | 9690 | 96900 | 96902 | 96903 | 96904 | 96905 | 96909 | 9691 | 9692 | 9693 | 9694 | 9695 |
| | 9696 | 9697 | 96970 | 96971 | 96972 | 96973 | 96979 | 9698 | 9699 | | | |
| 242 | Poisoning by other medications and drugs | | | | | | | | | | | |
| | 9090 | 9095 | 9600 | 9601 | 9602 | 9603 | 9604 | 9605 | 9606 | 9607 | 9608 | 9609 |
| | 9610 | 9611 | 9612 | 9613 | 9614 | 9615 | 9616 | 9617 | 9618 | 9619 | 9620 | 9621 |
| | 9622 | 9623 | 9624 | 9625 | 9626 | 9627 | 9628 | 9629 | 9630 | 9631 | 9632 | 9633 |
| | 9634 | 9635 | 9638 | 9639 | 9640 | 9641 | 9642 | 9643 | 9644 | 9645 | 9646 | 9647 |
| | 9648 | 9649 | 96500 | 96501 | 96502 | 96509 | 9651 | 9654 | 9655 | 9656 | 96561 | 96569 |
| | 9657 | 9658 | 9659 | 9660 | 9661 | 9662 | 9663 | 9664 | 9670 | 9671 | 9672 | 9673 |
| | 9674 | 9675 | 9676 | 9678 | 9679 | 9680 | 9681 | 9682 | 9683 | 9684 | 9685 | 9686 |
| | 9687 | 9689 | 9700 | 9701 | 9708 | 97081 | 97089 | 9709 | 9710 | 9711 | 9712 | 9713 |
| | 9719 | 9720 | 9721 | 9722 | 9723 | 9724 | 9725 | 9726 | 9727 | 9728 | 9729 | 9730 |
| | 9731 | 9732 | 9733 | 9734 | 9735 | 9736 | 9738 | 9739 | 9740 | 9741 | 9742 | 9743 |
| | 9744 | 9745 | 9746 | 9747 | 9750 | 9751 | 9752 | 9753 | 9754 | 9755 | 9756 | 9757 |
| | 9758 | 9760 | 9761 | 9762 | 9763 | 9764 | 9765 | 9766 | 9767 | 9768 | 9769 | 9770 |
| | 9771 | 9772 | 9773 | 9774 | 9778 | 9779 | 9780 | 9781 | 9782 | 9783 | 9784 | 9785 |
| | 9786 | 9788 | 9789 | 9790 | 9791 | 9792 | 9793 | 9794 | 9795 | 9796 | 9797 | 9799 |
| | 9952 | | | | | | | | | | | |
| 243 | Poisoning by nonmedicinal substances | | | | | | | | | | | |
| | 9091 | 9801 | 9802 | 9803 | 9808 | 9809 | 981 | 9820 | 9821 | 9822 | 9823 | 9824 |
| | 9828 | 9830 | 9831 | 9832 | 9839 | 9840 | 9841 | 9848 | 9849 | 9850 | 9851 | 9852 |
| | 9853 | 9854 | 9855 | 9856 | 9858 | 9859 | 986 | 9870 | 9871 | 9872 | 9873 | 9874 |
| | 9875 | 9876 | 9877 | 9878 | 9879 | 9880 | 9881 | 9882 | 9888 | 9889 | 9890 | 9891 |
| | 9892 | 9893 | 9894 | 9895 | 9896 | 9897 | 9898 | 98981 | 98982 | 98983 | 98984 | 98989 |
| | 9899 | | | | | | | | | | | |
| 244 | Other injuries and conditions due to external causes | | | | | | | | | | | |
| | 7960 | 7990 | 79901 | 79902 | 9071 | 9073 | 9074 | 9075 | 9079 | 9085 | 9086 | 9089 |
| | 9092 | 9094 | 9099 | 9300 | 9301 | 9302 | 9308 | 9309 | 931 | 932 | 9330 | 9331 |
| | 9340 | 9341 | 9348 | 9349 | 9350 | 9351 | 9352 | 936 | 937 | 938 | 9390 | 9391 |
| | 9392 | 9393 | 9399 | 9500 | 9501 | 9502 | 9503 | 9509 | 9510 | 9511 | 9512 | 9513 |
| | 9514 | 9515 | 9516 | 9517 | 9518 | 9519 | 9530 | 9531 | 9532 | 9533 | 9534 | 9535 |
| | 9538 | 9539 | 9540 | 9541 | 9548 | 9549 | 9550 | 9551 | 9552 | 9553 | 9554 | 9555 |
| | 9556 | 9557 | 9558 | 9559 | 9560 | 9561 | 9562 | 9563 | 9564 | 9565 | 9568 | 9569 |
| | 9570 | 9571 | 9578 | 9579 | 9580 | 9581 | 9582 | 9583 | 9584 | 9585 | 9586 | 9587 |
| | 9588 | 9590 | 95901 | 95909 | 9591 | 95911 | 95912 | 95913 | 95914 | 95919 | 9592 | 9593 |
| | 9594 | 9595 | 9596 | 9597 | 9598 | 9599 | 990 | 9910 | 9911 | 9912 | 9913 | 9914 |
| | 9915 | 9916 | 9918 | 9919 | 9920 | 9921 | 9922 | 9923 | 9924 | 9925 | 9926 | 9927 |
| | 9928 | 9929 | 9930 | 9931 | 9932 | 9933 | 9934 | 9938 | 9939 | 9940 | 9941 | 9942 |
| | 9943 | 9944 | 9945 | 9946 | 9947 | 9948 | 9949 | 9955 | 99550 | 99551 | 99552 | 99553 |
| | 99554 | 99555 | 99559 | 99580 | 99581 | 99582 | 99583 | 99584 | 99585 | 99589 | 99590 | 99593 |

| | | | | | | | | | | | | |
|------------|------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 99594 | V155 | V1551 | V1559 | V156 | V1588 | V713 | V714 | V716 | V9010 | V9011 | V9012 |
| | V902 | V9031 | V9032 | V9033 | V9039 | V9081 | V9083 | V9089 | V909 | | | |
| 245 | Syncope | | | | | | | | | | | |
| | 7802 | | | | | | | | | | | |
| 246 | Fever of unknown origin | | | | | | | | | | | |
| | 7806 | | | | | | | | | | | |
| 247 | Lymphadenitis | | | | | | | | | | | |
| | 2891 | 2892 | 2893 | 683 | 7856 | | | | | | | |
| 248 | Gangrene | | | | | | | | | | | |
| | 44024 | 7854 | | | | | | | | | | |
| 249 | Shock | | | | | | | | | | | |
| | 78550 | 78551 | 78552 | 78559 | | | | | | | | |
| 250 | Nausea and vomiting | | | | | | | | | | | |
| | 7870 | 78701 | 78702 | 78703 | | | | | | | | |
| 251 | Abdominal pain | | | | | | | | | | | |
| | 7890 | 78900 | 78901 | 78902 | 78903 | 78904 | 78905 | 78906 | 78907 | 78909 | 78960 | 78961 |
| | 78962 | 78963 | 78964 | 78965 | 78966 | 78967 | 78969 | | | | | |
| 252 | Malaise and fatigue | | | | | | | | | | | |
| | 7807 | 78071 | 78079 | | | | | | | | | |
| 253 | Allergic reactions | | | | | | | | | | | |
| | 4771 | 5186 | 5583 | 6910 | 6918 | 6920 | 6921 | 6922 | 6923 | 6924 | 6925 | 6926 |
| | 69270 | 69271 | 69272 | 69273 | 69274 | 69279 | 69281 | 69282 | 69283 | 69284 | 69289 | 6929 |
| | 6930 | 6931 | 6938 | 6939 | 7080 | 7081 | 7082 | 7083 | 7084 | 7085 | 7088 | 7089 |
| | 9950 | 9953 | 99560 | 99561 | 99562 | 99563 | 99564 | 99565 | 99566 | 99567 | 99568 | 99569 |
| | 9957 | V071 | V1381 | V140 | V141 | V142 | V143 | V144 | V145 | V146 | V147 | V148 |
| | V149 | V150 | V1501 | V1502 | V1503 | V1504 | V1505 | V1506 | V1507 | V1508 | V1509 | V727 |
| 254 | Rehabilitation care; fitting of prostheses; and adjustment of devices | | | | | | | | | | | |
| | V520 | V521 | V524 | V528 | V529 | V538 | V570 | V571 | V572 | V5721 | V5722 | V573 |
| | V574 | V5781 | V5789 | V579 | V5882 | | | | | | | |
| 255 | Administrative/social admission | | | | | | | | | | | |
| | V200 | V201 | V202 | V2031 | V2032 | V600 | V601 | V602 | V603 | V604 | V605 | V606 |
| | V608 | V6081 | V6089 | V609 | V610 | V6101 | V6102 | V6103 | V6104 | V6105 | V6106 | V6107 |
| | V6108 | V611 | V6110 | V6111 | V6112 | V6120 | V6121 | V6122 | V6123 | V6124 | V6125 | V6129 |
| | V613 | V6141 | V6142 | V6149 | V615 | V616 | V617 | V618 | V619 | V620 | V621 | V622 |
| | V6221 | V6222 | V6229 | V623 | V624 | V625 | V626 | V6281 | V6282 | V6283 | V6289 | V629 |
| | V630 | V631 | V632 | V638 | V639 | V650 | V651 | V6511 | V6519 | V652 | V653 | V654 |
| | V6540 | V6541 | V6542 | V6543 | V6544 | V6545 | V6549 | V655 | V658 | V659 | V680 | V681 |
| | V682 | V6881 | V6889 | V689 | | | | | | | | |
| 256 | Medical examination/evaluation | | | | | | | | | | | |
| | V290 | V291 | V292 | V293 | V298 | V299 | V6801 | V6809 | V700 | V703 | V704 | V705 |
| | V706 | V707 | V708 | V709 | V718 | V719 | V7231 | V7232 | V725 | V726 | V7262 | V7263 |

| | | | | | | | | | | | | |
|-----|---------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | V7269 | V728 | V7281 | V7282 | V7283 | V7284 | V7285 | V7286 | V729 | | | |
| 257 | Other aftercare | | | | | | | | | | | |
| | V51 | V510 | V518 | V539 | V5390 | V5399 | V548 | V5481 | V5489 | V549 | V558 | V559 |
| | V583 | V584 | V5841 | V5842 | V5843 | V5844 | V5849 | V5861 | V5862 | V5863 | V5864 | V5865 |
| | V5866 | V5867 | V5869 | V5871 | V5872 | V5873 | V5874 | V5875 | V5876 | V5877 | V5878 | V588 |
| | V5881 | V5883 | V5889 | V589 | V660 | V665 | V666 | V667 | V669 | V670 | V6700 | V6701 |
| | V6709 | V6751 | V6759 | V676 | V679 | | | | | | | |
| 258 | Other screening for suspected conditions (not mental disorders or infectious disease) | | | | | | | | | | | |
| | 7929 | 79500 | 79507 | 79508 | 79518 | 7954 | 79677 | 79678 | V280 | V281 | V282 | V283 |
| | V284 | V285 | V288 | V2882 | V2889 | V289 | V715 | V7181 | V7189 | V7240 | V7241 | V760 |
| | V761 | V7610 | V7611 | V7612 | V7619 | V762 | V763 | V7641 | V7642 | V7643 | V7644 | V7645 |
| | V7646 | V7647 | V7649 | V7650 | V7651 | V7652 | V768 | V7681 | V7689 | V769 | V770 | V771 |
| | V772 | V773 | V774 | V775 | V776 | V777 | V778 | V779 | V7791 | V7799 | V780 | V781 |
| | V782 | V783 | V788 | V789 | V800 | V8001 | V8009 | V801 | V802 | V803 | V810 | V811 |
| | V812 | V813 | V814 | V815 | V816 | V820 | V821 | V822 | V823 | V824 | V825 | V826 |
| | V828 | V8281 | V8289 | V829 | | | | | | | | |
| 259 | Residual codes; unclassified | | | | | | | | | | | |
| | 3020 | 32700 | 32701 | 32709 | 32710 | 32711 | 32712 | 32713 | 32714 | 32719 | 32720 | 32721 |
| | 32722 | 32723 | 32724 | 32725 | 32726 | 32727 | 32729 | 32740 | 32741 | 32742 | 32743 | 32744 |
| | 32749 | 32751 | 32759 | 3278 | 78002 | 7801 | 78050 | 78051 | 78052 | 78053 | 78054 | 78055 |
| | 78056 | 78057 | 78058 | 78059 | 78064 | 78065 | 7809 | 78093 | 78094 | 78095 | 78099 | 7815 |
| | 7816 | 7823 | 78261 | 78262 | 7828 | 7829 | 7830 | 7836 | 7842 | 7901 | 7903 | 7906 |
| | 7909 | 79091 | 79092 | 79093 | 79094 | 79095 | 79099 | 7932 | 7939 | 7949 | 7963 | 7964 |
| | 7965 | 7966 | 7969 | 7980 | 7981 | 7982 | 7989 | 7992 | 79921 | 79922 | 79923 | 79925 |
| | 79929 | 7993 | 7998 | 79981 | 79882 | 79989 | 7999 | V070 | V072 | V073 | V0731 | V0739 |
| | V0751 | V0752 | V0759 | V078 | V079 | V131 | V1389 | V139 | V152 | V1521 | V1522 | V1529 |
| | V153 | V1581 | V1584 | V1585 | V1586 | V1587 | V1589 | V159 | V160 | V161 | V162 | V163 |
| | V164 | V1640 | V1641 | V1642 | V1643 | V1649 | V165 | V1651 | V1652 | V1659 | V166 | V167 |
| | V168 | V169 | V170 | V171 | V172 | V173 | V174 | V1741 | V1749 | V175 | V176 | V177 |
| | V178 | V1781 | V1789 | V180 | V181 | V1811 | V1819 | V182 | V183 | V184 | V185 | V186 |
| | V1861 | V1869 | V187 | V188 | V189 | V190 | V1911 | V1919 | V192 | V193 | V194 | V195 |
| | V196 | V197 | V198 | V210 | V211 | V212 | V218 | V219 | V418 | V419 | V428 | V4281 |
| | V4282 | V4283 | V4284 | V4289 | V429 | V438 | V4381 | V4382 | V4383 | V4389 | V447 | V448 |
| | V449 | V4571 | V4572 | V4573 | V4574 | V4575 | V4576 | V4577 | V4578 | V4579 | V4583 | V4584 |
| | V4589 | V460 | V468 | V469 | V470 | V471 | V472 | V479 | V480 | V488 | V489 | V498 |
| | V4981 | V4982 | V4983 | V4984 | V4986 | V4987 | V4989 | V499 | V500 | V501 | V503 | V5041 |
| | V5042 | V5049 | V508 | V509 | V590 | V5901 | V5902 | V5909 | V591 | V592 | V593 | V594 |
| | V595 | V596 | V5970 | V5971 | V5972 | V5973 | V5974 | V598 | V599 | V640 | V6400 | V6401 |
| | V6402 | V6403 | V6404 | V6405 | V6406 | V6407 | V6408 | V6409 | V641 | V642 | V643 | V644 |
| | V6441 | V6442 | V6443 | V690 | V691 | V692 | V693 | V694 | V695 | V698 | V699 | V8301 |
| | V8302 | V8381 | V8389 | V8401 | V8402 | V8403 | V8404 | V8409 | V848 | V8481 | V8489 | V851 |
| | V8701 | V8702 | V8709 | V8711 | V8712 | V8719 | V872 | V8731 | V8732 | V8739 | V8741 | V8742 |
| | V8743 | V8744 | V8745 | V8746 | V8749 | V8801 | V8802 | V8803 | V8811 | V8812 | V8901 | V8902 |
| | V8903 | V8904 | V8905 | V8909 | | | | | | | | |
| 650 | Adjustment disorders | | | | | | | | | | | |
| | 3090 | 3091 | 30922 | 30923 | 30924 | 30928 | 30929 | 3093 | 3094 | 30982 | 30983 | 30989 |
| | 3099 | | | | | | | | | | | |
| 651 | Anxiety disorders | | | | | | | | | | | |
| | 29384 | 30000 | 30001 | 30002 | 30009 | 30010 | 30020 | 30021 | 30022 | 30023 | 30029 | 3003 |

| | | | | | | | | | | | |
|-------|-------|------|-------|-------|------|------|------|------|-------|------|------|
| 3005 | 30089 | 3009 | 3080 | 3081 | 3082 | 3083 | 3084 | 3089 | 30981 | 3130 | 3131 |
| 31321 | 31322 | 3133 | 31382 | 31383 | | | | | | | |

652 Attention-deficit, conduct, and disruptive behavior disorders

Conduct disorder

| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 31200 | 31201 | 31202 | 31203 | 31210 | 31211 | 31212 | 31213 | 31220 | 31221 | 31222 | 31223 |
| 3124 | 3128 | 31281 | 31282 | 31289 | 3129 | | | | | | |

Oppositional defiant disorder

31381

Attention deficit disorder / Attention deficit hyperactivity disorder

| | | | | | |
|-------|-------|------|------|------|------|
| 31400 | 31401 | 3141 | 3142 | 3148 | 3149 |
|-------|-------|------|------|------|------|

653 Delirium, dementia, and amnestic and other cognitive disorders

| | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2900 | 29010 | 29011 | 29012 | 29013 | 29020 | 29021 | 2903 | 29040 | 29041 | 29042 | 29043 |
| 2908 | 2909 | 2930 | 2931 | 2940 | 2941 | 29410 | 29411 | 29420 | 29421 | 2948 | 2949 |
| 3100 | 3102 | 31081 | 31089 | 3109 | 3310 | 3311 | 33111 | 33119 | 3312 | 33182 | 797 |

654 Developmental disorders

Communication disorders

| | | | | | | |
|------|------|-------|-------|-------|-------|------|
| 3070 | 3079 | 31531 | 31534 | 31535 | 31539 | V401 |
|------|------|-------|-------|-------|-------|------|

Developmental disabilities

| | | | | | |
|-------|-------|-------|-------|------|------|
| 31501 | 31502 | 31509 | 31532 | 3155 | 3158 |
|-------|-------|-------|-------|------|------|

Intellectual disabilities

| | | | | |
|-----|------|------|------|-----|
| 317 | 3180 | 3181 | 3182 | 319 |
|-----|------|------|------|-----|

Learning disorders

| | | | | |
|-------|------|------|------|------|
| 31500 | 3151 | 3152 | 3159 | V400 |
|-------|------|------|------|------|

Motor skill disorders

3154

655 Disorders usually diagnosed in infancy, childhood, or adolescence

Elimination disorders

| | |
|------|------|
| 3076 | 3077 |
|------|------|

Other disorders of infancy, childhood or adolescence

| | | | | |
|------|-------|-------|-------|------|
| 3073 | 30921 | 31323 | 31389 | 3139 |
|------|-------|-------|-------|------|

Pervasive developmental disorders

| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 29900 | 29901 | 29910 | 29911 | 29980 | 29981 | 29990 | 29991 |
|-------|-------|-------|-------|-------|-------|-------|-------|

Tic disorders

| | | | |
|-------|-------|-------|-------|
| 30720 | 30721 | 30722 | 30723 |
|-------|-------|-------|-------|

| | | | | | | | | | | | | | |
|-------|------------------------------------------------------------------|-----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 656 | Impulse control disorders, NEC | | | | | | | | | | | | |
| | 31230 | 31231 | 31232 | 31233 | 31234 | 31235 | 31239 | | | | | | |
| 657 | Mood disorders | | | | | | | | | | | | |
| | Bipolar disorders | | | | | | | | | | | | |
| | 29600 | 29601 | 29602 | 29603 | 29604 | 29605 | 29606 | 29610 | 29611 | 29612 | 29613 | 29614 | |
| | 29615 | 29616 | 29640 | 29641 | 29642 | 29643 | 29644 | 29645 | 29646 | 29650 | 29651 | 29652 | |
| | 29653 | 29654 | 29655 | 29656 | 29660 | 29661 | 29662 | 29663 | 29664 | 29665 | 29666 | 2967 | |
| | 29680 | 29681 | 29682 | 29689 | 29690 | 29699 | | | | | | | |
| | Depressive disorders | | | | | | | | | | | | |
| | 29383 | 29620 | 29621 | 29622 | 29623 | 29624 | 29625 | 29626 | 29630 | 29631 | 29632 | 29633 | |
| | 29634 | 29635 | 29636 | 3004 | 311 | | | | | | | | |
| | | | | | | | | | | | | | |
| | 658 | Personality disorders | | | | | | | | | | | |
| | | 3010 | 30110 | 30111 | 30112 | 30113 | 30120 | 30121 | 30122 | 3013 | 3014 | 30150 | 30151 |
| | | 30159 | 3016 | 3017 | 30181 | 30182 | 30183 | 30184 | 30189 | 3019 | | | |
| | 659 | Schizophrenia and other psychotic disorders | | | | | | | | | | | |
| | | 29381 | 29382 | 29500 | 29501 | 29502 | 29503 | 29504 | 29505 | 29510 | 29511 | 29512 | 29513 |
| 29514 | | 29515 | 29520 | 29521 | 29522 | 29523 | 29524 | 29525 | 29530 | 29531 | 29532 | 29533 | |
| 29534 | | 29535 | 29540 | 29541 | 29542 | 29543 | 29544 | 29545 | 29550 | 29551 | 29552 | 29553 | |
| 29554 | | 29555 | 29560 | 29561 | 29562 | 29563 | 29564 | 29565 | 29570 | 29571 | 29572 | 29573 | |
| 29574 | | 29575 | 29580 | 29581 | 29582 | 29583 | 29584 | 29585 | 29590 | 29591 | 29592 | 29593 | |
| 29594 | | 29595 | 2970 | 2971 | 2972 | 2973 | 2978 | 2979 | 2980 | 2981 | 2982 | 2983 | |
| 2984 | | 2988 | 2989 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 660 | | Alcohol-related disorders | | | | | | | | | | | |
| | 2910 | 2911 | 2912 | 2913 | 2914 | 2915 | 2918 | 29181 | 29182 | 29189 | 2919 | 30300 | |
| | 30301 | 30302 | 30303 | 30390 | 30391 | 30392 | 30393 | 30500 | 30501 | 30502 | 30503 | 3575 | |
| | 4255 | 53530 | 53531 | 5710 | 5711 | 5712 | 5713 | 76071 | 9800 | | | | |
| 661 | Substance-related disorders | | | | | | | | | | | | |
| | 2920 | 29211 | 29212 | 2922 | 29281 | 29282 | 29283 | 29284 | 29285 | 29289 | 2929 | 30400 | |
| | 30401 | 30402 | 30403 | 30410 | 30411 | 30412 | 30413 | 30420 | 30421 | 30422 | 30423 | 30430 | |
| | 30431 | 30432 | 30433 | 30440 | 30441 | 30442 | 30443 | 30450 | 30451 | 30452 | 30453 | 30460 | |
| | 30461 | 30462 | 30463 | 30470 | 30471 | 30472 | 30473 | 30480 | 30481 | 30482 | 30483 | 30490 | |
| | 30491 | 30492 | 30493 | 30520 | 30521 | 30522 | 30523 | 30530 | 30531 | 30532 | 30533 | 30540 | |
| | 30541 | 30542 | 30543 | 30550 | 30551 | 30552 | 30553 | 30560 | 30561 | 30562 | 30563 | 30570 | |
| | 30571 | 30572 | 30573 | 30580 | 30581 | 30582 | 30583 | 30590 | 30591 | 30592 | 30593 | 64830 | |
| | 64831 | 64832 | 64833 | 64834 | 65550 | 65551 | 65553 | 76072 | 76073 | 76075 | 7795 | 96500 | |
| | 96501 | 96502 | 96509 | V6542 | | | | | | | | | |
| | | | | | | | | | | | | | |
| | 662 | Suicide and intentional self-inflicted injury | | | | | | | | | | | |
| | | V6284 | E9500 | E9501 | E9502 | E9503 | E9504 | E9505 | E9506 | E9507 | E9508 | E9509 | E9510 |
| | | E9511 | E9518 | E9520 | E9521 | E9528 | E9529 | E9530 | E9531 | E9538 | E9539 | E954 | E9550 |
| E9551 | | E9552 | E9553 | E9554 | E9555 | E9556 | E9557 | E9559 | E956 | E9570 | E9571 | E9572 | |
| | E9579 | E9580 | E9581 | E9582 | E9583 | E9584 | E9585 | E9586 | E9587 | E9588 | E9589 | E959 | |
| 663 | Screening and history of mental health and substance abuse codes | | | | | | | | | | | | |
| | Mental health disorder related codes | | | | | | | | | | | | |
| | 33392 | V110 | V111 | V112 | V114 | V118 | V119 | V154 | V1541 | V1542 | V1549 | V1582 | |

V6285 V663 V701 V702 V7101 V7102 V7109 V790 V792 V793 V798 V799

Substance-related disorder codes

3051 30510 30511 30512 30513 5353 7903 V113 V791

670 Miscellaneous disorders

Dissociative disorders

30012 30013 30014 30015 3006

Eating disorders

3071 30750 30751 30752 30753 30754 30759

Factitious disorders

30016 30019

Mental disorders due to general medical condition not elsewhere classified

29389 2939 3101

Other miscellaneous mental conditions

316 64840 64841 64842 64843 64844 V402 V4031 V4039 V409 V673

Psychogenic disorders

3060 3061 3062 3063 3064 30650 30652 30653 30659 3066 3067 3068
3069

Sexual and gender identify disorders

3021 3022 3023 3024 30250 30251 30252 30253 3026 30270 30271 30272
30273 30274 30275 30276 30279 30281 30282 30283 30284 30285 30289 3029
30651

Sleep disorders

30740 30741 30742 30743 30744 30745 30746 30747 30748 30749

Somatoform disorders

30011 3007 30081 30082 30780 30781 30789

Attachment 2:

Sample SAS Jobs for Linking Example

NOTE: Copyright (c) 2002-2012 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software 9.4 (TS1M3)
NOTE: This session is executing on the W32_7PRO platform.

NOTE: SAS initialization used:
real time 0.85 seconds
cpu time 0.12 seconds

NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS\SASMISC\autoexec_9432.sas.

NOTE: AUTOEXEC processing completed.

```

1
2
3
4
5      ods rtf file = 'C:\Data\sampleA.rtf'
5      ! bodytitle;
NOTE: Writing RTF Body file: C:\Data\sampleA.rtf
6
7      ods noproctitle;
8
9      OPTIONS LS=132 PS=59;
10
11     TITLE1 "HC-178I";
12     TITLE2 "Sample SAS Job for Example A";
13
14     LIBNAME IN "C:\Data";
NOTE: Libref IN was successfully assigned as follows:
Engine:          V9
Physical Name: C:\Data
15
16     *****
17     * Calculate the expenditures for prescribed medicines associated with medical visits for asthma.
18     *****;
19
20     PROC FORMAT;
21         VALUE EVENTYPE
22             1 = "1 MVIS"
23             2 = "2 OPAT"
24             3 = "3 EROM"
25             4 = "4 STAZ"
26             5 = "5 DVIS"
27             6 = "6 OMED"
28             7 = "7 HVIS"
29             8 = "8 PMED";
NOTE: Format EVENTYPE has been output.
30

```

31 RUN;

NOTE: PROCEDURE FORMAT used (Total process time):
 real time 0.06 seconds
 cpu time 0.01 seconds

32
 33 *-----
 34 * Get condition records coded as asthma.
 35 *-----;
 36 DATA ASCONDS;
 37 SET IN.H180 (KEEP=CONDIDX CCCODEX);
 38 IF CCCODEX="128";
 39
 40 RUN;

NOTE: There were 123227 observations read from the data set IN.H180.
 NOTE: The data set WORK.ASCONDS has 2422 observations and 2 variables.
 NOTE: Compressing data set WORK.ASCONDS increased size by 200.00 percent.
 Compressed is 3 pages; un-compressed would require 1 pages.
 NOTE: DATA statement used (Total process time):
 real time 0.62 seconds
 cpu time 0.01 seconds

41
 42 *-----
 43 * Get the events linked to each of the asthma condition records.
 44 *-----;
 45 PROC SORT DATA=ASCONDS; BY CONDDIX; RUN;

NOTE: There were 2422 observations read from the data set WORK.ASCONDS.
 NOTE: SAS sort was used.
 NOTE: The data set WORK.ASCONDS has 2422 observations and 2 variables.
 NOTE: Compressing data set WORK.ASCONDS increased size by 200.00 percent.
 Compressed is 3 pages; un-compressed would require 1 pages.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.03 seconds
 cpu time 0.01 seconds

46
 47 proc print data=asconds (obs=50);
 48 title3 "sample print of work.asconds - sorted by conddix";
 49 title4 "COND (H180) records where cccodex=128";
 50 run;

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
 NOTE: The PROCEDURE PRINT printed page 1.
 NOTE: PROCEDURE PRINT used (Total process time):
 real time 0.14 seconds
 cpu time 0.01 seconds

51
 52 PROC SORT DATA=IN.H178IF1 OUT=CLNK; BY CONDDIX; RUN;

NOTE: There were 377736 observations read from the data set IN.H178IF1.
 NOTE: SAS threaded sort was used.
 NOTE: The data set WORK.CLNK has 377736 observations and 6 variables.
 NOTE: Compressing data set WORK.CLNK increased size by 5.52 percent.
 Compressed is 440 pages; un-compressed would require 417 pages.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.93 seconds
 cpu time 0.29 seconds

```
53
54      DATA ASCLNKS;
55          MERGE CLNK      (IN=INCLNK  KEEP=CONDIDX EVNTIDX EVENTYPE)
56                  ASCONDS (IN=INASCOND KEEP=CONDIDX);
57          BY CONDIDX;
58          IF INCLNK & INASCOND;
59      RUN;
```

NOTE: There were 377736 observations read from the data set WORK.CLNK.
 NOTE: There were 2422 observations read from the data set WORK.ASCONDS.
 NOTE: The data set WORK.ASCLNKS has 7037 observations and 3 variables.
 NOTE: Compressing data set WORK.ASCLNKS increased size by 50.00 percent.
 Compressed is 6 pages; un-compressed would require 4 pages.
 NOTE: DATA statement used (Total process time):
 real time 0.10 seconds
 cpu time 0.09 seconds

```
60
61      proc report data=asclnks(obs=75) nowd headskip;
62          define condidx  /'CONDIDX' order;
63          define evntidx  /'EVNTIDX';
64          define eventype  /'EVENTYPE';
65          break after condidx / skip;
66          format eventype eventype.;
67          title3 "sample print of work.asclnks - sorted by condidx";
68          title4 "events linked to asthma condition records";
69      run;
```

NOTE: Multiple concurrent threads will be used to summarize data.
 NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
 NOTE: The PROCEDURE REPORT printed pages 2-3.
 NOTE: PROCEDURE REPORT used (Total process time):
 real time 0.39 seconds
 cpu time 0.03 seconds

```
70
71      PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;
```

NOTE: There were 7037 observations read from the data set WORK.ASCLNKS.
 NOTE: SAS sort was used.
 NOTE: The data set WORK.ASCLNKS has 7037 observations and 3 variables.
 NOTE: Compressing data set WORK.ASCLNKS increased size by 50.00 percent.
 Compressed is 6 pages; un-compressed would require 4 pages.
 NOTE: PROCEDURE SORT used (Total process time):

```

real time      0.00 seconds
cpu time       0.01 seconds

```

```

72
73      proc print data=asclnks (obs=50);
74          format eventype eventype.;
75          title3 "sample print of work.asclnks - sorted by evntidx";
76      run;

```

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.

NOTE: The PROCEDURE PRINT printed page 4.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time      0.00 seconds
cpu time       0.00 seconds

```

```

77
78      DATA ASCLNKS;
79          SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
80          BY EVNTIDX;
81          IF FIRST.EVNTIDX;
82      RUN;

```

NOTE: There were 7037 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 7026 observations and 2 variables.

NOTE: Compressing data set WORK.ASCLNKS increased size by 66.67 percent.
Compressed is 5 pages; un-compressed would require 3 pages.

NOTE: DATA statement used (Total process time):

```

real time      0.00 seconds
cpu time       0.01 seconds

```

```

83
84      proc print data=asclnks (obs=50);
85          title3 "sample print of unique evntidxs from work.asclnks";
86          format eventype eventype.;
87      run;

```

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time      0.00 seconds
cpu time       0.01 seconds

```

```

88
89      *-----
90      * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
91      *-----
92      DATA MVIS;
93          SET IN.H178G (KEEP=EVNTIDX PERWT15F SEETLKPV);
94          IF PERWT15F > 0 & SEETLKPV NE 2;
95      RUN;

```

NOTE: There were 172388 observations read from the data set IN.H178G.

NOTE: The data set WORK.MVIS has 167884 observations and 3 variables.

NOTE: Compressing data set WORK.MVIS increased size by 13.25 percent.
 Compressed is 94 pages; un-compressed would require 83 pages.

NOTE: DATA statement used (Total process time):
 real time 2.05 seconds
 cpu time 0.06 seconds

96
 97 PROC SORT DATA=MVIS; BY EVNTIDX; RUN;

NOTE: There were 167884 observations read from the data set WORK.MVIS.
 NOTE: SAS threaded sort was used.
 NOTE: The data set WORK.MVIS has 167884 observations and 3 variables.
 NOTE: Compressing data set WORK.MVIS increased size by 13.25 percent.
 Compressed is 94 pages; un-compressed would require 83 pages.

NOTE: PROCEDURE SORT used (Total process time):
 real time 0.08 seconds
 cpu time 0.12 seconds

98
 99 *-----
 100 * Identify MVIS events which were for asthma.
 101 *-----;
 102 DATA ASMVIS;
 103 MERGE ASCLNKS (IN=INASCLNK)
 104 MVIS (IN=INMVIS KEEP=EVNTIDX);
 105 BY EVNTIDX;
 106 IF INASCLNK & INMVIS;
 107 RUN;

NOTE: There were 7026 observations read from the data set WORK.ASCLNKS.
 NOTE: There were 167884 observations read from the data set WORK.MVIS.
 NOTE: The data set WORK.ASMVIS has 2048 observations and 2 variables.
 NOTE: Compressing data set WORK.ASMVIS increased size by 100.00 percent.
 Compressed is 2 pages; un-compressed would require 1 pages.

NOTE: DATA statement used (Total process time):
 real time 0.04 seconds
 cpu time 0.04 seconds

108
 109 proc print data=asmvis (obs=50);
 110 format eventype eventype.;
 111 title3 "sample print of work.asmvis";
 112 title4 "unique evtidxs from work.asclnks that are non-telephone MVIS (HC-178G) events";
 113 run;

NOTE: There were 50 observations read from the data set WORK.ASMVIS.
 NOTE: The PROCEDURE PRINT printed page 6.
 NOTE: PROCEDURE PRINT used (Total process time):
 real time 0.00 seconds
 cpu time 0.00 seconds

114
 115 *-----

```

116      * Get PMED IDs linked to the MVIS events which were for asthma.
117      *-----;
118      PROC SORT DATA=IN.H178IF2 OUT=RXLK; BY EVNTIDX; RUN;

```

NOTE: There were 63302 observations read from the data set IN.H178IF2.

NOTE: SAS sort was used.

NOTE: The data set WORK.RXLK has 63302 observations and 6 variables.

NOTE: Compressing data set WORK.RXLK increased size by 7.14 percent.

Compressed is 75 pages; un-compressed would require 70 pages.

NOTE: PROCEDURE SORT used (Total process time):

real time 0.14 seconds

cpu time 0.03 seconds

```

119
120      proc report data=rxlk (obs=140 keep=evntidx linkidx eventype) nowd headskip;
121          define evntidx  /'EVNTIDX' order;
122          define linkidx  /'LINKIDX';
123          define eventype /'EVENTYPE';
124          break after evntidx / skip;
125          format eventype eventype.;
126          title3 "sample print of work.rxlk - sorted by evntidx";
127          title4 "Rx+event link file records (HC-178IF2)";
128      run;

```

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 140 observations read from the data set WORK.RXLK.

NOTE: The PROCEDURE REPORT printed pages 7-11.

NOTE: PROCEDURE REPORT used (Total process time):

real time 0.02 seconds

cpu time 0.04 seconds

```

129      DATA PMEDIDS;
130          MERGE RXLK  (IN=INRXLK KEEP=EVNTIDX LINKIDX EVENTYPE)
131              ASMVIS(IN=INASMVIS KEEP=EVNTIDX);
132          BY EVNTIDX;
133          IF INRXLK & INASMVIS;
134      RUN;
135

```

NOTE: There were 63302 observations read from the data set WORK.RXLK.

NOTE: There were 2048 observations read from the data set WORK.ASMVIS.

NOTE: The data set WORK.PMEDIDS has 2160 observations and 3 variables.

NOTE: Compressing data set WORK.PMEDIDS increased size by 50.00 percent.

Compressed is 3 pages; un-compressed would require 2 pages.

NOTE: DATA statement used (Total process time):

real time 0.03 seconds

cpu time 0.03 seconds

```

136
137      proc report data=pmedids (obs=50) nowd headskip;
138          define evntidx  /'EVNTIDX' order;
139          define linkidx  /'LINKIDX';
140          define eventype /'EVENTYPE';
141          break after evntidx / skip;

```

```
142      format eventype eventype.;
143      title3 "sample print of work.pmedids - sorted by evntidx";
144      title4 "work.rxlk records for evntidxs in work.asmvis";
145      run;
```

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: The PROCEDURE REPORT printed pages 12-13.
NOTE: PROCEDURE REPORT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

```
146
147      PROC SORT DATA=PMEDIDS; BY LINKIDX; RUN;
```

NOTE: There were 2160 observations read from the data set WORK.PMEDIDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.PMEDIDS has 2160 observations and 3 variables.
NOTE: Compressing data set WORK.PMEDIDS increased size by 50.00 percent.
Compressed is 3 pages; un-compressed would require 2 pages.
NOTE: PROCEDURE SORT used (Total process time):
real time 0.03 seconds
cpu time 0.00 seconds

```
148
149      proc print data=pmedids (obs=50);
150      format eventype eventype.;
151      title3 "sample print of work.pmedids - sorted by linkidx";
152      run;
```

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: The PROCEDURE PRINT printed page 14.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.01 seconds

```
153
154      DATA PMEDIDS;
155      SET PMEDIDS (KEEP=LINKIDX);
156      BY LINKIDX;
157      IF FIRST.LINKIDX;
158      RUN;
```

NOTE: Compression was disabled for data set WORK.PMEDIDS because compression overhead would increase the size of the data set.
NOTE: There were 2160 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.PMEDIDS has 2067 observations and 1 variables.
NOTE: DATA statement used (Total process time):
real time 0.01 seconds
cpu time 0.00 seconds

```
159
160      proc print data=pmedids (obs=50);
161      title3 "sample print of unique linkidxs in work.pmedids";
```



```
162      run;
```

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.

NOTE: The PROCEDURE PRINT printed page 15.

NOTE: PROCEDURE PRINT used (Total process time):

```
real time      0.00 seconds
cpu time       0.00 seconds
```

```
163
```

```
164      *-----
165      * Get PMED records linked to MVIS events which were for asthma.
166      *-----;
167      PROC SORT DATA=IN.H178A OUT=PMED; BY LINKIDX; RUN;
```

NOTE: There were 330453 observations read from the data set IN.H178A.

NOTE: SAS threaded sort was used.

NOTE: The data set WORK.PMED has 330453 observations and 13 variables.

NOTE: Compressing data set WORK.PMED decreased size by 20.31 percent.

Compressed is 710 pages; un-compressed would require 891 pages.

NOTE: PROCEDURE SORT used (Total process time):

```
real time      3.34 seconds
cpu time       0.63 seconds
```

```
168
```

```
169      DATA MVPMEDS;
170      MERGE PMED (KEEP=LINKIDX RXRECIDX RXXP15X PERWT15F RXNAME)
171      PMEDIDS (IN=A);
172      BY LINKIDX;
173      IF A;
174      RUN;
```

NOTE: There were 330453 observations read from the data set WORK.PMED.

NOTE: There were 2067 observations read from the data set WORK.PMEDIDS.

NOTE: The data set WORK.MVPMEDS has 5623 observations and 5 variables.

NOTE: Compressing data set WORK.MVPMEDS decreased size by 22.22 percent.

Compressed is 7 pages; un-compressed would require 9 pages.

NOTE: DATA statement used (Total process time):

```
real time      0.12 seconds
cpu time       0.12 seconds
```

```
175
```

```
176      proc report data=mvpmeds (obs=200) nowd;
177      column LINKIDX RXRECIDX RXNAME RXXP15X PERWT15F;
178      define linkidx    /'LINKIDX' order;
179      define rxrecidx    /'RXRECIDX';
180      define rxname      /'RXNAME';
181      define rxxp15x     /'RXXP15X' display format=8.2;
182      define PERWT15F    /'PERWT15F' /*display format=8.2*/;
183      break after linkidx / skip;
184      title3 "sample print of work.mvpmeds";
185      title4 "PMED (HC-178A) records for unique linkidxs in work.pmedids";
186      run;
```

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 200 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE REPORT printed pages 16-20.

NOTE: PROCEDURE REPORT used (Total process time):

| | |
|-----------|--------------|
| real time | 0.03 seconds |
| cpu time | 0.03 seconds |

187

188 PROC MEANS DATA=MVPMEDS N SUM;

189 VAR RXXP15X;

190 TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";

191 RUN;

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 5623 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE MEANS printed page 21.

NOTE: PROCEDURE MEANS used (Total process time):

| | |
|-----------|--------------|
| real time | 0.05 seconds |
| cpu time | 0.04 seconds |

192

193 PROC MEANS DATA=MVPMEDS N SUM;

194 VAR RXXP15X;

195 WEIGHT PERWT15F;

196 TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";

197 TITLE5 "Weighted";

198 RUN;

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 5623 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE MEANS printed page 22.

NOTE: PROCEDURE MEANS used (Total process time):

| | |
|-----------|--------------|
| real time | 0.02 seconds |
| cpu time | 0.00 seconds |

199

200 ods rtf close;

201

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

NOTE: The SAS System used:

| | |
|-----------|---------------|
| real time | 10.86 seconds |
| cpu time | 2.05 seconds |

HC-178I
Sample SAS Job for Example A
sample print of work.asconds - sorted by condidx
COND (H180) records where cccodex=128

| Obs | CONDIDX | CCCODEX |
|-----|--------------|---------|
| 1 | 600011010231 | 128 |
| 2 | 600011020121 | 128 |
| 3 | 600031030011 | 128 |
| 4 | 600211010061 | 128 |
| 5 | 600331010131 | 128 |
| 6 | 600341010031 | 128 |
| 7 | 600561060021 | 128 |
| 8 | 600632010052 | 128 |
| 9 | 601081010041 | 128 |
| 10 | 601081030011 | 128 |
| 11 | 601181020021 | 128 |
| 12 | 601201010011 | 128 |
| 13 | 601381010011 | 128 |
| 14 | 601381040021 | 128 |
| 15 | 601461010051 | 128 |
| 16 | 601481020051 | 128 |
| 17 | 601661020061 | 128 |
| 18 | 601711020011 | 128 |
| 19 | 601811020021 | 128 |
| 20 | 601921030011 | 128 |
| 21 | 601941020061 | 128 |
| 22 | 601941040011 | 128 |
| 23 | 602201010031 | 128 |
| 24 | 602201040011 | 128 |
| 25 | 602221020071 | 128 |
| 26 | 602321020011 | 128 |
| 27 | 602421030021 | 128 |
| 28 | 602581020032 | 128 |
| 29 | 602701010031 | 128 |
| 30 | 602851030061 | 128 |
| 31 | 602851030101 | 128 |
| 32 | 603031010021 | 128 |
| 33 | 603101010161 | 128 |
| 34 | 603121010061 | 128 |
| 35 | 603151010041 | 128 |
| 36 | 603431030011 | 128 |
| 37 | 603811010141 | 128 |
| 38 | 603881010061 | 128 |
| 39 | 603981010031 | 128 |
| 40 | 604081040011 | 128 |
| 41 | 604261020051 | 128 |
| 42 | 604301010041 | 128 |
| 43 | 604301020011 | 128 |
| 44 | 604321010041 | 128 |
| 45 | 604321020011 | 128 |
| 46 | 604321040011 | 128 |
| 47 | 604331010031 | 128 |
| 48 | 604361010041 | 128 |
| 49 | 604421010031 | 128 |
| 50 | 604661020051 | 128 |

HC-178I
Sample SAS Job for Example A
sample print of work.asclnks - sorted by condidx
events linked to asthma condition records

| CONDIDX | EVNTIDX | EVENTYPE |
|--------------|--------------|----------|
| 600011010231 | 600011012191 | 8 PMED |
| 600011020121 | 600011020521 | 1 MVIS |
| 600011020121 | 600011020811 | 8 PMED |
| 600211010061 | 600211010191 | 1 MVIS |
| 600211010061 | 600211010211 | 3 EROM |
| 600211010061 | 600211010311 | 8 PMED |
| 600211010061 | 600211010331 | 1 MVIS |
| 600211010061 | 600211010341 | 1 MVIS |
| 600211010061 | 600211010351 | 1 MVIS |
| 600211010061 | 600211010461 | 8 PMED |
| 600211010061 | 600211010471 | 8 PMED |
| 600211010061 | 600211010481 | 8 PMED |
| 600211010061 | 600211010491 | 8 PMED |
| 600211010061 | 600211010501 | 8 PMED |
| 600211010061 | 600211010511 | 8 PMED |
| 600211010061 | 600211010521 | 1 MVIS |
| 600211010061 | 600211010601 | 8 PMED |
| 600211010061 | 600211010611 | 8 PMED |
| 600211010061 | 600211010621 | 8 PMED |
| 600211010061 | 600211010631 | 8 PMED |
| 600331010131 | 600331010631 | 8 PMED |
| 600341010031 | 600341010421 | 8 PMED |
| 600341010031 | 600341010561 | 1 MVIS |
| 600341010031 | 600341010571 | 1 MVIS |
| 600341010031 | 600341010581 | 1 MVIS |
| 600341010031 | 600341010591 | 1 MVIS |
| 600341010031 | 600341010601 | 1 MVIS |
| 600341010031 | 600341010621 | 1 MVIS |
| 600341010031 | 600341010631 | 1 MVIS |
| 600341010031 | 600341010641 | 1 MVIS |
| 600341010031 | 600341010671 | 8 PMED |
| 600561060021 | 600561060101 | 1 MVIS |
| 600561060021 | 600561060111 | 1 MVIS |
| 600561060021 | 600561060121 | 1 MVIS |
| 600561060021 | 600561060131 | 8 PMED |
| 600632010052 | 600632010012 | 3 EROM |
| 601201010011 | 601201010081 | 8 PMED |
| 601201010011 | 601201010091 | 8 PMED |
| 601201010011 | 601201010111 | 1 MVIS |
| 601201010011 | 601201010121 | 1 MVIS |
| 601201010011 | 601201010131 | 1 MVIS |
| 601201010011 | 601201010251 | 1 MVIS |
| 601201010011 | 601201010261 | 1 MVIS |
| 601201010011 | 601201010271 | 1 MVIS |
| 601201010011 | 601201010281 | 1 MVIS |
| 601201010011 | 601201010351 | 8 PMED |
| 601381010011 | 601381010091 | 2 OPAT |
| 601381010011 | 601381010101 | 8 PMED |
| 601381010011 | 601381010111 | 8 PMED |
| 601381040021 | 601381040051 | 8 PMED |
| 601481020051 | 601481020461 | 8 PMED |
| 601481020051 | 601481020591 | 1 MVIS |
| 601481020051 | 601481020601 | 8 PMED |
| 601661020061 | 601661020381 | 8 PMED |
| 601661020061 | 601661020391 | 8 PMED |
| 601811020021 | 601811020491 | 8 PMED |
| 601941020061 | 601941020461 | 8 PMED |
| 601941020061 | 601941020471 | 8 PMED |
| 601941020061 | 601941020821 | 8 PMED |
| 601941020061 | 601941020831 | 8 PMED |
| 601941020061 | 601941021181 | 8 PMED |
| 601941020061 | 601941021191 | 8 PMED |
| 601941040011 | 601941040201 | 8 PMED |
| 602221020071 | 602221020192 | 1 MVIS |
| 602421030021 | 602421030031 | 3 EROM |
| 602421030021 | 602421030041 | 4 STAZ |
| 602421030021 | 602421030051 | 8 PMED |
| 602581020032 | 602581021412 | 8 PMED |
| 602851030061 | 602851030281 | 8 PMED |

| CONDIDX | EVNTIDX | EVENTYPE |
|--------------|--------------|----------|
| 602851030061 | 602851030301 | 8 PMED |
| 602851030101 | 602851030311 | 1 MVIS |
| 602851030101 | 602851030321 | 1 MVIS |
| 602851030101 | 602851030351 | 1 MVIS |
| 602851030101 | 602851030441 | 8 PMED |
| 602851030101 | 602851030451 | 8 PMED |

HC-178I
Sample SAS Job for Example A
sample print of work.asclnks - sorted by evntidx

| Obs | CONDIDX | EVNTIDX | EVENTYPE |
|-----|--------------|--------------|----------|
| 1 | 600011010231 | 600011012191 | 8 PMED |
| 2 | 600011020121 | 600011020521 | 1 MVIS |
| 3 | 600011020121 | 600011020811 | 8 PMED |
| 4 | 600211010061 | 600211010191 | 1 MVIS |
| 5 | 600211010061 | 600211010211 | 3 EROM |
| 6 | 600211010061 | 600211010311 | 8 PMED |
| 7 | 600211010061 | 600211010331 | 1 MVIS |
| 8 | 600211010061 | 600211010341 | 1 MVIS |
| 9 | 600211010061 | 600211010351 | 1 MVIS |
| 10 | 600211010061 | 600211010461 | 8 PMED |
| 11 | 600211010061 | 600211010471 | 8 PMED |
| 12 | 600211010061 | 600211010481 | 8 PMED |
| 13 | 600211010061 | 600211010491 | 8 PMED |
| 14 | 600211010061 | 600211010501 | 8 PMED |
| 15 | 600211010061 | 600211010511 | 8 PMED |
| 16 | 600211010061 | 600211010521 | 1 MVIS |
| 17 | 600211010061 | 600211010601 | 8 PMED |
| 18 | 600211010061 | 600211010611 | 8 PMED |
| 19 | 600211010061 | 600211010621 | 8 PMED |
| 20 | 600211010061 | 600211010631 | 8 PMED |
| 21 | 600331010131 | 600331010631 | 8 PMED |
| 22 | 600341010031 | 600341010421 | 8 PMED |
| 23 | 600341010031 | 600341010561 | 1 MVIS |
| 24 | 600341010031 | 600341010571 | 1 MVIS |
| 25 | 600341010031 | 600341010581 | 1 MVIS |
| 26 | 600341010031 | 600341010591 | 1 MVIS |
| 27 | 600341010031 | 600341010601 | 1 MVIS |
| 28 | 600341010031 | 600341010621 | 1 MVIS |
| 29 | 600341010031 | 600341010631 | 1 MVIS |
| 30 | 600341010031 | 600341010641 | 1 MVIS |
| 31 | 600341010031 | 600341010671 | 8 PMED |
| 32 | 600561060021 | 600561060101 | 1 MVIS |
| 33 | 600561060021 | 600561060111 | 1 MVIS |
| 34 | 600561060021 | 600561060121 | 1 MVIS |
| 35 | 600561060021 | 600561060131 | 8 PMED |
| 36 | 600632010052 | 600632010012 | 3 EROM |
| 37 | 601201010011 | 601201010081 | 8 PMED |
| 38 | 601201010011 | 601201010091 | 8 PMED |
| 39 | 601201010011 | 601201010111 | 1 MVIS |
| 40 | 601201010011 | 601201010121 | 1 MVIS |
| 41 | 601201010011 | 601201010131 | 1 MVIS |
| 42 | 601201010011 | 601201010251 | 1 MVIS |
| 43 | 601201010011 | 601201010261 | 1 MVIS |
| 44 | 601201010011 | 601201010271 | 1 MVIS |
| 45 | 601201010011 | 601201010281 | 1 MVIS |
| 46 | 601201010011 | 601201010351 | 8 PMED |
| 47 | 601381010011 | 601381010091 | 2 OPAT |
| 48 | 601381010011 | 601381010101 | 8 PMED |
| 49 | 601381010011 | 601381010111 | 8 PMED |
| 50 | 601381040021 | 601381040051 | 8 PMED |

HC-178I
Sample SAS Job for Example A
sample print of unique evntidxs from work.asclnks

| Obs | EVNTIDX | EVENTYPE |
|-----|--------------|----------|
| 1 | 600011012191 | 8 PMED |
| 2 | 600011020521 | 1 MVIS |
| 3 | 600011020811 | 8 PMED |
| 4 | 600211010191 | 1 MVIS |
| 5 | 600211010211 | 3 EROM |
| 6 | 600211010311 | 8 PMED |
| 7 | 600211010331 | 1 MVIS |
| 8 | 600211010341 | 1 MVIS |
| 9 | 600211010351 | 1 MVIS |
| 10 | 600211010461 | 8 PMED |
| 11 | 600211010471 | 8 PMED |
| 12 | 600211010481 | 8 PMED |
| 13 | 600211010491 | 8 PMED |
| 14 | 600211010501 | 8 PMED |
| 15 | 600211010511 | 8 PMED |
| 16 | 600211010521 | 1 MVIS |
| 17 | 600211010601 | 8 PMED |
| 18 | 600211010611 | 8 PMED |
| 19 | 600211010621 | 8 PMED |
| 20 | 600211010631 | 8 PMED |
| 21 | 600331010631 | 8 PMED |
| 22 | 600341010421 | 8 PMED |
| 23 | 600341010561 | 1 MVIS |
| 24 | 600341010571 | 1 MVIS |
| 25 | 600341010581 | 1 MVIS |
| 26 | 600341010591 | 1 MVIS |
| 27 | 600341010601 | 1 MVIS |
| 28 | 600341010621 | 1 MVIS |
| 29 | 600341010631 | 1 MVIS |
| 30 | 600341010641 | 1 MVIS |
| 31 | 600341010671 | 8 PMED |
| 32 | 600561060101 | 1 MVIS |
| 33 | 600561060111 | 1 MVIS |
| 34 | 600561060121 | 1 MVIS |
| 35 | 600561060131 | 8 PMED |
| 36 | 600632010012 | 3 EROM |
| 37 | 601201010081 | 8 PMED |
| 38 | 601201010091 | 8 PMED |
| 39 | 601201010111 | 1 MVIS |
| 40 | 601201010121 | 1 MVIS |
| 41 | 601201010131 | 1 MVIS |
| 42 | 601201010251 | 1 MVIS |
| 43 | 601201010261 | 1 MVIS |
| 44 | 601201010271 | 1 MVIS |
| 45 | 601201010281 | 1 MVIS |
| 46 | 601201010351 | 8 PMED |
| 47 | 601381010091 | 2 OPAT |
| 48 | 601381010101 | 8 PMED |
| 49 | 601381010111 | 8 PMED |
| 50 | 601381040051 | 8 PMED |

HC-178I
Sample SAS Job for Example A
sample print of work.asmvis
unique evntidxs from work.asclnks that are non-telephone MVIS (HC-178G) events

| Obs | EVNTIDX | EVENTYPE |
|-----|--------------|----------|
| 1 | 600011020521 | 1 MVIS |
| 2 | 600211010191 | 1 MVIS |
| 3 | 600211010331 | 1 MVIS |
| 4 | 600211010341 | 1 MVIS |
| 5 | 600211010351 | 1 MVIS |
| 6 | 600211010521 | 1 MVIS |
| 7 | 600341010561 | 1 MVIS |
| 8 | 600341010571 | 1 MVIS |
| 9 | 600341010581 | 1 MVIS |
| 10 | 600341010591 | 1 MVIS |
| 11 | 600341010601 | 1 MVIS |
| 12 | 600341010621 | 1 MVIS |
| 13 | 600341010631 | 1 MVIS |
| 14 | 600341010641 | 1 MVIS |
| 15 | 600561060101 | 1 MVIS |
| 16 | 600561060111 | 1 MVIS |
| 17 | 600561060121 | 1 MVIS |
| 18 | 601201010111 | 1 MVIS |
| 19 | 601201010121 | 1 MVIS |
| 20 | 601201010131 | 1 MVIS |
| 21 | 601201010251 | 1 MVIS |
| 22 | 601201010261 | 1 MVIS |
| 23 | 601201010271 | 1 MVIS |
| 24 | 601201010281 | 1 MVIS |
| 25 | 601481020591 | 1 MVIS |
| 26 | 602221020192 | 1 MVIS |
| 27 | 602851030311 | 1 MVIS |
| 28 | 602851030321 | 1 MVIS |
| 29 | 602851030351 | 1 MVIS |
| 30 | 603811010661 | 1 MVIS |
| 31 | 603811010981 | 1 MVIS |
| 32 | 603881010701 | 1 MVIS |
| 33 | 603881010861 | 1 MVIS |
| 34 | 603881010891 | 1 MVIS |
| 35 | 604301020981 | 1 MVIS |
| 36 | 604301020991 | 1 MVIS |
| 37 | 604301021001 | 1 MVIS |
| 38 | 604301021011 | 1 MVIS |
| 39 | 604301021021 | 1 MVIS |
| 40 | 604301021071 | 1 MVIS |
| 41 | 604301021081 | 1 MVIS |
| 42 | 604301021091 | 1 MVIS |
| 43 | 604301021101 | 1 MVIS |
| 44 | 604301021121 | 1 MVIS |
| 45 | 604301021131 | 1 MVIS |
| 46 | 604301021421 | 1 MVIS |
| 47 | 604301021431 | 1 MVIS |
| 48 | 604301021441 | 1 MVIS |
| 49 | 604301021451 | 1 MVIS |
| 50 | 604301021521 | 1 MVIS |

HC-178I
Sample SAS Job for Example A
sample print of work.rxlk - sorted by evntidx
Rx+event link file records (HC-178IF2)

| EVNTIDX | LINKIDX | EVENTYPE |
|--------------|--------------|----------|
| 600011020441 | 600011020551 | 1 MVIS |
| 600011020521 | 600011020561 | 1 MVIS |
| 600011020521 | 600011020571 | 1 MVIS |
| 600011020521 | 600011020581 | 1 MVIS |
| 600011020521 | 600011020591 | 1 MVIS |
| 600011020521 | 600011020601 | 1 MVIS |
| 600011020521 | 600011020611 | 1 MVIS |
| 600011020521 | 600011020621 | 1 MVIS |
| 600011020521 | 600011020631 | 1 MVIS |
| 600011020521 | 600011020641 | 1 MVIS |
| 600011020521 | 600011020651 | 1 MVIS |
| 600011020521 | 600011020661 | 1 MVIS |
| 600011020521 | 600011020671 | 1 MVIS |
| 600011020521 | 600011020681 | 1 MVIS |
| 600021030411 | 600021030551 | 3 EROM |
| 600101060051 | 600101060101 | 4 STAZ |
| 600111010151 | 600111010161 | 1 MVIS |
| 600111020081 | 600111020391 | 1 MVIS |
| 600111030101 | 600111030111 | 1 MVIS |
| 600111040081 | 600111040091 | 3 EROM |
| 600111040081 | 600111040101 | 3 EROM |
| 600131010471 | 600131010491 | 1 MVIS |
| 600131010481 | 600131010491 | 1 MVIS |
| 600131010551 | 600131010571 | 1 MVIS |
| 600131030021 | 600131030031 | 5 DVIS |
| 600151010181 | 600151010211 | 1 MVIS |
| 600151010181 | 600151010221 | 1 MVIS |
| 600151010181 | 600151010231 | 1 MVIS |
| 600151010531 | 600151010561 | 1 MVIS |
| 600151010531 | 600151010571 | 1 MVIS |
| 600151010531 | 600151010581 | 1 MVIS |
| 600191050031 | 600191050041 | 1 MVIS |
| 600201010031 | 600201010071 | 4 STAZ |
| 600201010041 | 600201010081 | 1 MVIS |
| 600201020041 | 600201020051 | 1 MVIS |
| 600211010321 | 600211010391 | 1 MVIS |
| 600211010321 | 600211010401 | 1 MVIS |
| 600211010321 | 600211010411 | 1 MVIS |
| 600211010321 | 600211010421 | 1 MVIS |
| 600211010321 | 600211010431 | 1 MVIS |
| 600211010321 | 600211010441 | 1 MVIS |
| 600211010321 | 600211010451 | 1 MVIS |
| 600211010321 | 600211010461 | 1 MVIS |
| 600211010321 | 600211010471 | 1 MVIS |
| 600211010321 | 600211010481 | 1 MVIS |
| 600211010331 | 600211010491 | 1 MVIS |
| 600211010331 | 600211010501 | 1 MVIS |
| 600211010331 | 600211010511 | 1 MVIS |
| 600211010531 | 600211010541 | 1 MVIS |
| 600221010111 | 600221010161 | 1 MVIS |
| 600301010411 | 600301010441 | 1 MVIS |
| 600301010581 | 600301010681 | 1 MVIS |
| 600301010581 | 600301010691 | 1 MVIS |
| 600301010611 | 600301010701 | 1 MVIS |
| 600301010651 | 600301010711 | 1 MVIS |
| 600301010651 | 600301010721 | 1 MVIS |
| 600301010651 | 600301010731 | 1 MVIS |
| 600311010011 | 600311010021 | 1 MVIS |
| 600331010461 | 600331010601 | 1 MVIS |
| 600331010531 | 600331010631 | 1 MVIS |
| 600331010711 | 600331010931 | 1 MVIS |
| 600331010731 | 600331010941 | 1 MVIS |
| 600331010961 | 600331011091 | 2 OPAT |
| 600331011061 | 600331011101 | 1 MVIS |
| 600331020231 | 600331020251 | 1 MVIS |
| 600331020231 | 600331020261 | 1 MVIS |
| 600331020311 | 600331020331 | 1 MVIS |
| 600331020381 | 600331020431 | 1 MVIS |
| 600341010451 | 600341010471 | 1 MVIS |

| EVNTIDX | LINKIDX | EVENTYPE |
|--------------|--------------|----------|
| 600341010451 | 600341010481 | 1 MVIS |
| 600341010451 | 600341010491 | 1 MVIS |
| 600341010451 | 600341010501 | 1 MVIS |
| 600341010641 | 600341010671 | 1 MVIS |
| 600351010601 | 600351010691 | 1 MVIS |
| 600351010671 | 600351010701 | 1 MVIS |
| 600361010361 | 600361010461 | 1 MVIS |
| 600361010361 | 600361010471 | 1 MVIS |
| 600361010411 | 600361010481 | 5 DVIS |
| 600361010521 | 600361010601 | 1 MVIS |
| 600381020091 | 600381020161 | 1 MVIS |
| 600381020171 | 600381020221 | 1 MVIS |
| 600431010131 | 600431010151 | 1 MVIS |
| 600431010131 | 600431010171 | 1 MVIS |
| 600431010131 | 600431010181 | 1 MVIS |
| 600451010101 | 600451010111 | 1 MVIS |
| 600451010131 | 600451010141 | 1 MVIS |
| 600451010131 | 600451010151 | 1 MVIS |
| 600451010131 | 600451010161 | 1 MVIS |
| 600451010131 | 600451010171 | 1 MVIS |
| 600451010181 | 600451010201 | 1 MVIS |
| 600451010181 | 600451010211 | 1 MVIS |
| 600451010181 | 600451010221 | 1 MVIS |
| 600451010181 | 600451010231 | 1 MVIS |
| 600451010181 | 600451010241 | 1 MVIS |
| 600461020291 | 600461020321 | 1 MVIS |
| 600461020291 | 600461020331 | 1 MVIS |
| 600461020291 | 600461020341 | 1 MVIS |
| 600461020311 | 600461020351 | 1 MVIS |
| 600461020311 | 600461020361 | 1 MVIS |
| 600471010301 | 600471010371 | 1 MVIS |
| 600471010301 | 600471010381 | 1 MVIS |
| 600471010611 | 600471010341 | 1 MVIS |
| 600471010611 | 600471010351 | 1 MVIS |
| 600471010611 | 600471010361 | 1 MVIS |
| 600471010611 | 600471010601 | 1 MVIS |
| 600471010631 | 600471010721 | 1 MVIS |
| 600471010631 | 600471010731 | 1 MVIS |
| 600471010631 | 600471010741 | 1 MVIS |
| 600471010631 | 600471010751 | 1 MVIS |
| 600471010631 | 600471010761 | 1 MVIS |
| 600471010631 | 600471010771 | 1 MVIS |
| 600471010631 | 600471010781 | 1 MVIS |
| 600471010631 | 600471010791 | 1 MVIS |
| 600471010681 | 600471010721 | 1 MVIS |
| 600471010681 | 600471010731 | 1 MVIS |
| 600471010681 | 600471010741 | 1 MVIS |
| 600471010801 | 600471010841 | 1 MVIS |
| 600471010801 | 600471010851 | 1 MVIS |
| 600471010801 | 600471010861 | 1 MVIS |
| 600471010801 | 600471010871 | 1 MVIS |
| 600471010801 | 600471010881 | 1 MVIS |
| 600471010811 | 600471010841 | 1 MVIS |
| 600471010811 | 600471010851 | 1 MVIS |
| 600471010811 | 600471010861 | 1 MVIS |
| 600471010811 | 600471010871 | 1 MVIS |
| 600471010811 | 600471010881 | 1 MVIS |
| 600491010471 | 600491010721 | 5 DVIS |
| 600501010031 | 600501010041 | 3 EROM |
| 600501020011 | 600501020021 | 3 EROM |
| 600511030201 | 600511030221 | 1 MVIS |
| 600521010091 | 600521010101 | 1 MVIS |
| 600521010091 | 600521010111 | 1 MVIS |
| 600541010111 | 600541010151 | 3 EROM |
| 600541010111 | 600541010161 | 3 EROM |
| 600541010111 | 600541010171 | 3 EROM |
| 600541020111 | 600541020131 | 3 EROM |
| 600561060081 | 600561060131 | 4 STAZ |
| 600601020291 | 600601020351 | 1 MVIS |
| 600601020311 | 600601020361 | 1 MVIS |
| 600601020321 | 600601020371 | 3 EROM |

HC-178I
Sample SAS Job for Example A
sample print of work.pmedids - sorted by evtntidx
work.rxlk records for evtntidxs in work.asmvis

| EVNTIDX | LINKIDX | EVENTYPE |
|--------------|--------------|----------|
| 600011020521 | 600011020561 | 1 MVIS |
| 600011020521 | 600011020571 | 1 MVIS |
| 600011020521 | 600011020581 | 1 MVIS |
| 600011020521 | 600011020591 | 1 MVIS |
| 600011020521 | 600011020601 | 1 MVIS |
| 600011020521 | 600011020611 | 1 MVIS |
| 600011020521 | 600011020621 | 1 MVIS |
| 600011020521 | 600011020631 | 1 MVIS |
| 600011020521 | 600011020641 | 1 MVIS |
| 600011020521 | 600011020651 | 1 MVIS |
| 600011020521 | 600011020661 | 1 MVIS |
| 600011020521 | 600011020671 | 1 MVIS |
| 600011020521 | 600011020681 | 1 MVIS |
| 600211010331 | 600211010491 | 1 MVIS |
| 600211010331 | 600211010501 | 1 MVIS |
| 600211010331 | 600211010511 | 1 MVIS |
| 600341010641 | 600341010671 | 1 MVIS |
| 601201010111 | 601201010211 | 1 MVIS |
| 602851030351 | 602851030431 | 1 MVIS |
| 602851030351 | 602851030441 | 1 MVIS |
| 602851030351 | 602851030451 | 1 MVIS |
| 602851030351 | 602851030461 | 1 MVIS |
| 603811010661 | 603811010941 | 1 MVIS |
| 603811010661 | 603811010951 | 1 MVIS |
| 603811010661 | 603811010961 | 1 MVIS |
| 603811010661 | 603811010971 | 1 MVIS |
| 603881010861 | 603881011311 | 1 MVIS |
| 603881010861 | 603881011321 | 1 MVIS |
| 603881010861 | 603881011331 | 1 MVIS |
| 603881010861 | 603881011341 | 1 MVIS |
| 603881010861 | 603881011351 | 1 MVIS |
| 603881010861 | 603881011361 | 1 MVIS |
| 604301020981 | 604301021311 | 1 MVIS |
| 604301020981 | 604301021321 | 1 MVIS |
| 604301020981 | 604301021331 | 1 MVIS |
| 604301021071 | 604301021321 | 1 MVIS |
| 604301021421 | 604301021551 | 1 MVIS |
| 604301021421 | 604301021561 | 1 MVIS |
| 604421010381 | 604421010391 | 1 MVIS |
| 604421010381 | 604421010401 | 1 MVIS |
| 604421010381 | 604421010411 | 1 MVIS |
| 604421010381 | 604421010421 | 1 MVIS |
| 604421010381 | 604421010431 | 1 MVIS |
| 604421010381 | 604421010441 | 1 MVIS |
| 604421010381 | 604421010451 | 1 MVIS |
| 604421010381 | 604421010461 | 1 MVIS |
| 604421010381 | 604421010471 | 1 MVIS |
| 604841010111 | 604841010171 | 1 MVIS |
| 605351010731 | 605351010781 | 1 MVIS |
| 605351010731 | 605351010791 | 1 MVIS |

HC-178I
Sample SAS Job for Example A
sample print of work.pmedids - sorted by linkidx

| Obs | EVNTIDX | LINKIDX | EVENTYPE |
|-----|--------------|--------------|----------|
| 1 | 600011020521 | 600011020561 | 1 MVIS |
| 2 | 600011020521 | 600011020571 | 1 MVIS |
| 3 | 600011020521 | 600011020581 | 1 MVIS |
| 4 | 600011020521 | 600011020591 | 1 MVIS |
| 5 | 600011020521 | 600011020601 | 1 MVIS |
| 6 | 600011020521 | 600011020611 | 1 MVIS |
| 7 | 600011020521 | 600011020621 | 1 MVIS |
| 8 | 600011020521 | 600011020631 | 1 MVIS |
| 9 | 600011020521 | 600011020641 | 1 MVIS |
| 10 | 600011020521 | 600011020651 | 1 MVIS |
| 11 | 600011020521 | 600011020661 | 1 MVIS |
| 12 | 600011020521 | 600011020671 | 1 MVIS |
| 13 | 600011020521 | 600011020681 | 1 MVIS |
| 14 | 600211010331 | 600211010491 | 1 MVIS |
| 15 | 600211010331 | 600211010501 | 1 MVIS |
| 16 | 600211010331 | 600211010511 | 1 MVIS |
| 17 | 600341010641 | 600341010671 | 1 MVIS |
| 18 | 601201010111 | 601201010211 | 1 MVIS |
| 19 | 602851030351 | 602851030431 | 1 MVIS |
| 20 | 602851030351 | 602851030441 | 1 MVIS |
| 21 | 602851030351 | 602851030451 | 1 MVIS |
| 22 | 602851030351 | 602851030461 | 1 MVIS |
| 23 | 603811010661 | 603811010941 | 1 MVIS |
| 24 | 603811010661 | 603811010951 | 1 MVIS |
| 25 | 603811010661 | 603811010961 | 1 MVIS |
| 26 | 603811010661 | 603811010971 | 1 MVIS |
| 27 | 603881010861 | 603881011311 | 1 MVIS |
| 28 | 603881010861 | 603881011321 | 1 MVIS |
| 29 | 603881010861 | 603881011331 | 1 MVIS |
| 30 | 603881010861 | 603881011341 | 1 MVIS |
| 31 | 603881010861 | 603881011351 | 1 MVIS |
| 32 | 603881010861 | 603881011361 | 1 MVIS |
| 33 | 604301020981 | 604301021311 | 1 MVIS |
| 34 | 604301020981 | 604301021321 | 1 MVIS |
| 35 | 604301021071 | 604301021321 | 1 MVIS |
| 36 | 604301020981 | 604301021331 | 1 MVIS |
| 37 | 604301021421 | 604301021551 | 1 MVIS |
| 38 | 604301021421 | 604301021561 | 1 MVIS |
| 39 | 604421010381 | 604421010391 | 1 MVIS |
| 40 | 604421010381 | 604421010401 | 1 MVIS |
| 41 | 604421010381 | 604421010411 | 1 MVIS |
| 42 | 604421010381 | 604421010421 | 1 MVIS |
| 43 | 604421010381 | 604421010431 | 1 MVIS |
| 44 | 604421010381 | 604421010441 | 1 MVIS |
| 45 | 604421010381 | 604421010451 | 1 MVIS |
| 46 | 604421010381 | 604421010461 | 1 MVIS |
| 47 | 604421010381 | 604421010471 | 1 MVIS |
| 48 | 604841010111 | 604841010171 | 1 MVIS |
| 49 | 605351010731 | 605351010781 | 1 MVIS |
| 50 | 605351010731 | 605351010791 | 1 MVIS |

HC-178I
Sample SAS Job for Example A
sample print of unique linkidxs in work.pmedids

| Obs | LINKIDX |
|-----|--------------|
| 1 | 600011020561 |
| 2 | 600011020571 |
| 3 | 600011020581 |
| 4 | 600011020591 |
| 5 | 600011020601 |
| 6 | 600011020611 |
| 7 | 600011020621 |
| 8 | 600011020631 |
| 9 | 600011020641 |
| 10 | 600011020651 |
| 11 | 600011020661 |
| 12 | 600011020671 |
| 13 | 600011020681 |
| 14 | 600211010491 |
| 15 | 600211010501 |
| 16 | 600211010511 |
| 17 | 600341010671 |
| 18 | 601201010211 |
| 19 | 602851030431 |
| 20 | 602851030441 |
| 21 | 602851030451 |
| 22 | 602851030461 |
| 23 | 603811010941 |
| 24 | 603811010951 |
| 25 | 603811010961 |
| 26 | 603811010971 |
| 27 | 603881011311 |
| 28 | 603881011321 |
| 29 | 603881011331 |
| 30 | 603881011341 |
| 31 | 603881011351 |
| 32 | 603881011361 |
| 33 | 604301021311 |
| 34 | 604301021321 |
| 35 | 604301021331 |
| 36 | 604301021551 |
| 37 | 604301021561 |
| 38 | 604421010391 |
| 39 | 604421010401 |
| 40 | 604421010411 |
| 41 | 604421010421 |
| 42 | 604421010431 |
| 43 | 604421010441 |
| 44 | 604421010451 |
| 45 | 604421010461 |
| 46 | 604421010471 |
| 47 | 604841010171 |
| 48 | 605351010781 |
| 49 | 605351010791 |
| 50 | 605351010801 |

HC-178I
Sample SAS Job for Example A
sample print of work.mvpmeds
PMED (HC-178A) records for unique linkidxs in work.pmedids

| LINKIDX | RXRECIDX | RXNAME | RXXP15X | PERWT15F |
|--------------|-----------------|--------------|---------|--------------|
| 600011020561 | 600011020561001 | LISINOPRIL | 2.53 | 18169.604822 |
| 600011020561 | 600011020561002 | LISINOPRIL | 2.53 | 18169.604822 |
| 600011020561 | 600011020561003 | LISINOPRIL | 2.53 | 18169.604822 |
| 600011020561 | 600011020561004 | LISINOPRIL | 2.53 | 18169.604822 |
| 600011020561 | 600011020561005 | LISINOPRIL | 2.53 | 18169.604822 |
| 600011020561 | 600011020561006 | LISINOPRIL | 2.53 | 18169.604822 |
| 600011020561 | 600011020561007 | LISINOPRIL | 2.53 | 18169.604822 |
| 600011020571 | 600011020571001 | OMEPRAZOLE | 89.99 | 18169.604822 |
| 600011020571 | 600011020571002 | OMEPRAZOLE | 89.99 | 18169.604822 |
| 600011020571 | 600011020571003 | OMEPRAZOLE | 8.77 | 18169.604822 |
| 600011020571 | 600011020571004 | OMEPRAZOLE | 8.77 | 18169.604822 |
| 600011020571 | 600011020571005 | OMEPRAZOLE | 7.54 | 18169.604822 |
| 600011020571 | 600011020571006 | OMEPRAZOLE | 8.77 | 18169.604822 |
| 600011020571 | 600011020571007 | OMEPRAZOLE | 89.99 | 18169.604822 |
| 600011020581 | 600011020581001 | METFORMIN | 4.96 | 18169.604822 |
| 600011020581 | 600011020581002 | METFORMIN | 4.96 | 18169.604822 |
| 600011020581 | 600011020581003 | METFORMIN | 4.96 | 18169.604822 |
| 600011020581 | 600011020581004 | METFORMIN | 4.96 | 18169.604822 |
| 600011020581 | 600011020581005 | METFORMIN | 4.96 | 18169.604822 |
| 600011020581 | 600011020581006 | METFORMIN | 4.96 | 18169.604822 |
| 600011020581 | 600011020581007 | METFORMIN | 2.53 | 18169.604822 |
| 600011020591 | 600011020591001 | FUROSEMIDE | 6.50 | 18169.604822 |
| 600011020591 | 600011020591002 | FUROSEMIDE | 6.50 | 18169.604822 |
| 600011020591 | 600011020591003 | FUROSEMIDE | 4.10 | 18169.604822 |
| 600011020591 | 600011020591004 | FUROSEMIDE | 3.50 | 18169.604822 |
| 600011020591 | 600011020591005 | FUROSEMIDE | 3.50 | 18169.604822 |
| 600011020591 | 600011020591006 | FUROSEMIDE | 3.50 | 18169.604822 |
| 600011020591 | 600011020591007 | FUROSEMIDE | 3.50 | 18169.604822 |
| 600011020601 | 600011020601001 | QUETIAPINE | 10.00 | 18169.604822 |
| 600011020601 | 600011020601002 | QUETIAPINE | 10.00 | 18169.604822 |
| 600011020601 | 600011020601003 | QUETIAPINE | 10.00 | 18169.604822 |
| 600011020601 | 600011020601004 | QUETIAPINE | 10.00 | 18169.604822 |
| 600011020601 | 600011020601005 | QUETIAPINE | 10.00 | 18169.604822 |
| 600011020601 | 600011020601006 | QUETIAPINE | 10.00 | 18169.604822 |
| 600011020601 | 600011020601007 | QUETIAPINE | 10.00 | 18169.604822 |
| 600011020611 | 600011020611001 | METOPROL TAR | 3.33 | 18169.604822 |
| 600011020611 | 600011020611002 | METOPROL TAR | 1.46 | 18169.604822 |
| 600011020611 | 600011020611003 | METOPROL TAR | 3.33 | 18169.604822 |
| 600011020611 | 600011020611004 | METOPROL TAR | 3.33 | 18169.604822 |
| 600011020611 | 600011020611005 | METOPROL TAR | 3.33 | 18169.604822 |
| 600011020611 | 600011020611006 | METOPROL TAR | 3.33 | 18169.604822 |
| 600011020611 | 600011020611007 | METOPROL TAR | 3.33 | 18169.604822 |
| 600011020621 | 600011020621001 | SERTRALINE | 52.49 | 18169.604822 |
| 600011020621 | 600011020621002 | SERTRALINE | 9.83 | 18169.604822 |
| 600011020621 | 600011020621003 | SERTRALINE | 9.83 | 18169.604822 |
| 600011020621 | 600011020621004 | SERTRALINE | 64.49 | 18169.604822 |
| 600011020621 | 600011020621005 | SERTRALINE | 52.49 | 18169.604822 |
| 600011020621 | 600011020621006 | SERTRALINE | 52.49 | 18169.604822 |
| 600011020621 | 600011020621007 | SERTRALINE | 104.98 | 18169.604822 |
| 600011020631 | 600011020631001 | HYDROXYZ HCL | 20.70 | 18169.604822 |
| 600011020631 | 600011020631002 | HYDROXYZ HCL | 20.70 | 18169.604822 |
| 600011020631 | 600011020631003 | HYDROXYZ HCL | 20.70 | 18169.604822 |
| 600011020631 | 600011020631004 | HYDROXYZ HCL | 20.70 | 18169.604822 |
| 600011020631 | 600011020631005 | HYDROXYZ HCL | 20.70 | 18169.604822 |
| 600011020631 | 600011020631006 | HYDROXYZ HCL | 74.99 | 18169.604822 |
| 600011020631 | 600011020631007 | HYDROXYZ HCL | 74.99 | 18169.604822 |
| 600011020641 | 600011020641001 | TRAZODONE | 5.43 | 18169.604822 |
| 600011020641 | 600011020641002 | TRAZODONE | 5.43 | 18169.604822 |
| 600011020641 | 600011020641003 | TRAZODONE | 6.17 | 18169.604822 |
| 600011020641 | 600011020641004 | TRAZODONE | 9.42 | 18169.604822 |
| 600011020641 | 600011020641005 | TRAZODONE | 6.17 | 18169.604822 |
| 600011020641 | 600011020641006 | TRAZODONE | 5.43 | 18169.604822 |
| 600011020641 | 600011020641007 | TRAZODONE | 5.43 | 18169.604822 |
| 600011020651 | 600011020651001 | SIMVASTATIN | 7.17 | 18169.604822 |
| 600011020651 | 600011020651002 | SIMVASTATIN | 7.17 | 18169.604822 |
| 600011020651 | 600011020651003 | SIMVASTATIN | 7.17 | 18169.604822 |
| 600011020651 | 600011020651004 | SIMVASTATIN | 4.27 | 18169.604822 |
| 600011020651 | 600011020651005 | SIMVASTATIN | 4.27 | 18169.604822 |
| 600011020651 | 600011020651006 | SIMVASTATIN | 7.17 | 18169.604822 |

| LINKIDX | RXRECIDX | RXNAME | RXXP15X | PERWT15F |
|--------------|-----------------|--------------|---------|--------------|
| 600011020651 | 600011020651007 | SIMVASTATIN | 7.17 | 18169.604822 |
| 600011020661 | 600011020661001 | PROAIR HFA | 48.56 | 18169.604822 |
| 600011020661 | 600011020661002 | PROAIR HFA | 48.56 | 18169.604822 |
| 600011020661 | 600011020661003 | PROAIR HFA | 48.56 | 18169.604822 |
| 600011020661 | 600011020661004 | PROAIR HFA | 48.56 | 18169.604822 |
| 600011020661 | 600011020661005 | PROAIR HFA | 48.56 | 18169.604822 |
| 600011020661 | 600011020661006 | PROAIR HFA | 48.56 | 18169.604822 |
| 600011020661 | 600011020661007 | PROAIR HFA | 48.56 | 18169.604822 |
| 600011020671 | 600011020671001 | FLOVENT HFA | 303.18 | 18169.604822 |
| 600011020671 | 600011020671002 | FLOVENT HFA | 303.18 | 18169.604822 |
| 600011020671 | 600011020671003 | FLOVENT HFA | 315.28 | 18169.604822 |
| 600011020671 | 600011020671004 | FLOVENT HFA | 315.28 | 18169.604822 |
| 600011020671 | 600011020671005 | FLOVENT HFA | 303.18 | 18169.604822 |
| 600011020671 | 600011020671006 | FLOVENT HFA | 303.18 | 18169.604822 |
| 600011020671 | 600011020671007 | FLOVENT HFA | 303.18 | 18169.604822 |
| 600011020681 | 600011020681001 | METOPROL TAR | 7.73 | 18169.604822 |
| 600011020681 | 600011020681002 | METOPROL TAR | 7.73 | 18169.604822 |
| 600011020681 | 600011020681003 | METOPROL TAR | 7.73 | 18169.604822 |
| 600011020681 | 600011020681004 | METOPROL TAR | 7.73 | 18169.604822 |
| 600011020681 | 600011020681005 | METOPROL TAR | 7.73 | 18169.604822 |
| 600011020681 | 600011020681006 | METOPROL TAR | 7.73 | 18169.604822 |
| 600011020681 | 600011020681007 | METOPROL TAR | 7.73 | 18169.604822 |
| 600211010491 | 600211010491001 | BUDESONIDE | 361.56 | 28438.732334 |
| 600211010491 | 600211010491002 | BUDESONIDE | 361.56 | 28438.732334 |
| 600211010491 | 600211010491003 | BUDESONIDE | 339.24 | 28438.732334 |
| 600211010491 | 600211010491004 | BUDESONIDE | 339.24 | 28438.732334 |
| 600211010491 | 600211010491005 | BUDESONIDE | 339.24 | 28438.732334 |
| 600211010491 | 600211010491006 | BUDESONIDE | 350.46 | 28438.732334 |
| 600211010501 | 600211010501001 | BUDESONIDE | 361.56 | 28438.732334 |
| 600211010511 | 600211010511001 | PERFOROMIST | 474.56 | 28438.732334 |
| 600211010511 | 600211010511002 | PERFOROMIST | 474.56 | 28438.732334 |
| 600211010511 | 600211010511003 | PERFOROMIST | 500.48 | 28438.732334 |
| 600211010511 | 600211010511004 | PERFOROMIST | 500.48 | 28438.732334 |
| 600211010511 | 600211010511005 | PERFOROMIST | 500.48 | 28438.732334 |
| 600211010511 | 600211010511006 | PERFOROMIST | 524.04 | 28438.732334 |
| 600341010671 | 600341010671001 | SYMBICORT | 40.00 | 11855.691664 |
| 601201010211 | 601201010211001 | NAPROXEN | 4.59 | 9079.736909 |
| 602851030431 | 602851030431001 | RANITIDINE | 2.84 | 23855.163106 |
| 602851030431 | 602851030431002 | RANITIDINE | 2.50 | 23855.163106 |
| 602851030431 | 602851030431003 | RANITIDINE | 2.50 | 23855.163106 |
| 602851030431 | 602851030431004 | RANITIDINE | 2.50 | 23855.163106 |
| 602851030441 | 602851030441001 | ALBUTEROL | 56.78 | 23855.163106 |
| 602851030441 | 602851030441002 | ALBUTEROL | 56.78 | 23855.163106 |
| 602851030451 | 602851030451001 | BUDESONIDE | 466.32 | 23855.163106 |
| 602851030451 | 602851030451002 | BUDESONIDE | 466.72 | 23855.163106 |
| 602851030451 | 602851030451003 | BUDESONIDE | 466.72 | 23855.163106 |
| 602851030461 | 602851030461001 | VENTOLIN HFA | 47.86 | 23855.163106 |
| 603811010941 | 603811010941001 | FLUTICASONE | 39.74 | 7749.464929 |
| 603811010941 | 603811010941002 | FLUTICASONE | 14.25 | 7749.464929 |
| 603811010941 | 603811010941003 | FLUTICASONE | 14.25 | 7749.464929 |
| 603811010951 | 603811010951001 | MONTELUKAST | 64.51 | 7749.464929 |
| 603811010951 | 603811010951002 | MONTELUKAST | 64.51 | 7749.464929 |
| 603811010951 | 603811010951003 | MONTELUKAST | 64.51 | 7749.464929 |
| 603811010951 | 603811010951004 | MONTELUKAST | 64.51 | 7749.464929 |
| 603811010951 | 603811010951005 | MONTELUKAST | 64.51 | 7749.464929 |
| 603811010961 | 603811010961001 | ADVAIR HFA | 630.15 | 7749.464929 |
| 603811010971 | 603811010971001 | LEVOCETIRIZI | 16.50 | 7749.464929 |
| 603811010971 | 603811010971002 | LEVOCETIRIZI | 16.50 | 7749.464929 |
| 603811010971 | 603811010971003 | LEVOCETIRIZI | 32.70 | 7749.464929 |
| 603881011311 | 603881011311001 | LISINOPRIL | 1.76 | 23353.084117 |
| 603881011311 | 603881011311002 | LISINOPRIL | 1.76 | 23353.084117 |
| 603881011321 | 603881011321001 | ATORVASTATIN | 90.00 | 23353.084117 |
| 603881011321 | 603881011321002 | ATORVASTATIN | 90.00 | 23353.084117 |
| 603881011331 | 603881011331001 | ADVAIR DISKU | 306.21 | 23353.084117 |
| 603881011331 | 603881011331002 | ADVAIR DISKU | 306.21 | 23353.084117 |
| 603881011341 | 603881011341001 | ESCITALOPRAM | 50.19 | 23353.084117 |
| 603881011341 | 603881011341002 | ESCITALOPRAM | 17.00 | 23353.084117 |
| 603881011351 | 603881011351001 | CELECOXIB | 69.77 | 23353.084117 |
| 603881011351 | 603881011351002 | CELECOXIB | 68.10 | 23353.084117 |
| 603881011361 | 603881011361001 | ALBUTEROL | 15.36 | 23353.084117 |
| 603881011361 | 603881011361002 | ALBUTEROL | 15.36 | 23353.084117 |
| 604301021311 | 604301021311001 | Q-PAP | 5.99 | 2800.728053 |
| 604301021321 | 604301021321001 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021321 | 604301021321002 | PROVENTIL | 64.27 | 2800.728053 |

| LINKIDX | RXRECIDX | RXNAME | RXXP15X | PERWT15F |
|--------------|-----------------|--------------|---------|-------------|
| 604301021321 | 604301021321003 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021321 | 604301021321004 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021321 | 604301021321005 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021321 | 604301021321006 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021321 | 604301021321007 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021321 | 604301021321008 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021331 | 604301021331001 | PREDNISONE | 12.78 | 2800.728053 |
| 604301021331 | 604301021331002 | PREDNISONE | 12.78 | 2800.728053 |
| 604301021551 | 604301021551001 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021551 | 604301021551002 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021551 | 604301021551003 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021551 | 604301021551004 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021551 | 604301021551005 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021551 | 604301021551006 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021551 | 604301021551007 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021561 | 604301021561001 | VIOS | 55.96 | 2800.728053 |
| 604421010391 | 604421010391001 | MELOXICAM | 3.25 | 5481.874652 |
| 604421010401 | 604421010401001 | LISINOP/HCTZ | 4.96 | 5481.874652 |
| 604421010411 | 604421010411001 | ATENOLOL | 2.03 | 5481.874652 |
| 604421010421 | 604421010421001 | AMLODIPINE | 2.47 | 5481.874652 |
| 604421010431 | 604421010431001 | CYCLOBENZAPR | 9.12 | 5481.874652 |
| 604421010441 | 604421010441001 | AMOX/K CLAV | 11.10 | 5481.874652 |
| 604421010451 | 604421010451001 | ESTRADIOL | 3.08 | 5481.874652 |
| 604421010461 | 604421010461001 | GABAPENTIN | 9.22 | 5481.874652 |
| 604421010461 | 604421010461002 | GABAPENTIN | 9.22 | 5481.874652 |
| 604421010471 | 604421010471001 | CHANTIX | 257.91 | 5481.874652 |
| 604841010171 | 604841010171001 | HYDROCHLOROT | 2.14 | 2009.933562 |
| 604841010171 | 604841010171002 | HYDROCHLOROT | 4.92 | 2009.933562 |
| 605351010781 | 605351010781001 | FAMOTIDINE | 10.54 | 2895.679365 |
| 605351010781 | 605351010781002 | FAMOTIDINE | 3.79 | 2895.679365 |
| 605351010781 | 605351010781003 | FAMOTIDINE | 10.54 | 2895.679365 |
| 605351010781 | 605351010781004 | FAMOTIDINE | 8.52 | 2895.679365 |
| 605351010781 | 605351010781005 | FAMOTIDINE | 8.52 | 2895.679365 |
| 605351010791 | 605351010791001 | AMITRIPTYLIN | 8.42 | 2895.679365 |
| 605351010791 | 605351010791002 | AMITRIPTYLIN | 8.42 | 2895.679365 |
| 605351010791 | 605351010791003 | AMITRIPTYLIN | 8.42 | 2895.679365 |
| 605351010791 | 605351010791004 | AMITRIPTYLIN | 8.42 | 2895.679365 |
| 605351010791 | 605351010791005 | AMITRIPTYLIN | 8.42 | 2895.679365 |
| 605351010801 | 605351010801001 | MORPHINE SUL | 79.92 | 2895.679365 |
| 605351010801 | 605351010801002 | MORPHINE SUL | 82.53 | 2895.679365 |
| 605351010801 | 605351010801003 | MORPHINE SUL | 82.53 | 2895.679365 |
| 605351010801 | 605351010801004 | MORPHINE SUL | 74.66 | 2895.679365 |
| 605351010801 | 605351010801005 | MORPHINE SUL | 74.66 | 2895.679365 |
| 605351010811 | 605351010811001 | VITAMIN D | 1.05 | 2895.679365 |
| 605351010811 | 605351010811002 | VITAMIN D | 1.05 | 2895.679365 |
| 605351010811 | 605351010811003 | VITAMIN D | 1.05 | 2895.679365 |
| 605351010811 | 605351010811004 | VITAMIN D | 1.05 | 2895.679365 |
| 605351010811 | 605351010811005 | VITAMIN D | 1.05 | 2895.679365 |
| 605351010821 | 605351010821001 | METOPROL TAR | 2.49 | 2895.679365 |
| 605351010821 | 605351010821002 | METOPROL TAR | 2.49 | 2895.679365 |
| 605351010821 | 605351010821003 | METOPROL TAR | 2.49 | 2895.679365 |
| 605351010821 | 605351010821004 | METOPROL TAR | 2.49 | 2895.679365 |
| 605351010821 | 605351010821005 | METOPROL TAR | 2.49 | 2895.679365 |
| 605351010831 | 605351010831001 | DIPHENHYDRAM | 9.50 | 2895.679365 |
| 605351010831 | 605351010831002 | DIPHENHYDRAM | 9.50 | 2895.679365 |
| 605351010831 | 605351010831003 | DIPHENHYDRAM | 9.50 | 2895.679365 |
| 605351010831 | 605351010831004 | DIPHENHYDRAM | 9.50 | 2895.679365 |

HC-178I
Sample SAS Job for Example A
Total Rx expenditures associated with medical visits (excluding telephone) for asthma
Analysis Variable: RXXP15X SUM OF PAYMENTS RXSF15X-RXOU15X (IMPUTED)

| N | Sum |
|----------|------------|
| 5623 | 527554.76 |

HC-178I
Sample SAS Job for Example A
Total Rx expenditures associated with medical visits (excluding telephone) for asthma
Weighted
Analysis Variable: RXXP15X SUM OF PAYMENTS RXSF15X-RXOU15X (IMPUTED)

| N | Sum |
|----------|------------|
| 5623 | 4943941818 |

NOTE: Copyright (c) 2002-2012 by SAS Institute Inc., Cary, NC, USA.
 NOTE: SAS (r) Proprietary Software 9.4 (TS1M3)
 NOTE: This session is executing on the W32_7PRO platform.

NOTE: SAS initialization used:
 real time 0.70 seconds
 cpu time 0.15 seconds

NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS\SASMISC\autoexec_9432.sas.

NOTE: AUTOEXEC processing completed.

```

1
2
3
4
5      ods rtf file = 'C:\Data\sampleB.rtf'
6      ! bodytitle;
NOTE: Writing RTF Body file: C:\Data\sampleB.rtf
7
8      ods noproctitle;
9
10     OPTIONS LS=132 PS=59;
11
12     TITLE1 "HC-178I";
13     TITLE2 "Sample SAS Job for Example B";
14
15     LIBNAME IN "C:\Data";
NOTE: Libref IN was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\Data
16
17     *****
18     * Calculate the expenditures for prescribed medicines associated with asthma.
19     *****;
20     PROC FORMAT;
21       VALUE EVENTYPE
22         1 = "1 MVIS"
23         2 = "2 OPAT"
24         3 = "3 EROM"
25         4 = "4 STAZ"
26         5 = "5 DVIS"
27         6 = "6 OMED"
28         7 = "7 HVIS"
29         8 = "8 PMED";
NOTE: Format EVENTYPE has been output.
29     RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):
 real time 0.07 seconds
 cpu time 0.00 seconds

```

30
31      *-----
32      * Get condition records coded as asthma.
33      *-----;
34      DATA ASCONDS;
35          SET IN.H180 (KEEP=CONDIDX CCCODEX);
36          IF CCCODEX="128";
37      RUN;
```

NOTE: There were 123227 observations read from the data set IN.H180.
 NOTE: The data set WORK.ASCONDS has 2422 observations and 2 variables.
 NOTE: Compressing data set WORK.ASCONDS increased size by 200.00 percent.
 Compressed is 3 pages; un-compressed would require 1 pages.
 NOTE: DATA statement used (Total process time):
 real time 0.48 seconds
 cpu time 0.01 seconds

```

38
39      *-----
40      * Get the events linked to each of the asthma condition records.
41      *-----;
42      PROC SORT DATA=ASCONDS; BY CONDDIX; RUN;
```

NOTE: There were 2422 observations read from the data set WORK.ASCONDS.
 NOTE: SAS sort was used.
 NOTE: The data set WORK.ASCONDS has 2422 observations and 2 variables.
 NOTE: Compressing data set WORK.ASCONDS increased size by 200.00 percent.
 Compressed is 3 pages; un-compressed would require 1 pages.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.00 seconds
 cpu time 0.00 seconds

```

43
44      proc print data=asconds (obs=50);
45          title3 "sample print of work.asconds - sorted by conddix";
46          title4 "COND (H180) records where cccodex=128";
47      run;
```

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
 NOTE: The PROCEDURE PRINT printed page 1.
 NOTE: PROCEDURE PRINT used (Total process time):
 real time 0.03 seconds
 cpu time 0.04 seconds

```

48
49      PROC SORT DATA=IN.H178IF1 OUT=CLNK; BY CONDDIX; RUN;
```

NOTE: There were 377736 observations read from the data set IN.H178IF1.
 NOTE: SAS threaded sort was used.

NOTE: The data set WORK.CLNK has 377736 observations and 6 variables.
 NOTE: Compressing data set WORK.CLNK increased size by 5.52 percent.
 Compressed is 440 pages; un-compressed would require 417 pages.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.86 seconds
 cpu time 0.32 seconds

```
50
51      DATA ASCLNKS;
52          MERGE CLNK      (IN=INCLNK  KEEP=CONDIDX EVNTIDX EVENTYPE)
53              ASCONDS (IN=INASCOND KEEP=CONDIDX);
54          BY CONDIDX;
55          IF INCLNK & INASCOND;
56      RUN;
```

NOTE: There were 377736 observations read from the data set WORK.CLNK.
 NOTE: There were 2422 observations read from the data set WORK.ASCONDS.
 NOTE: The data set WORK.ASCLNKS has 7037 observations and 3 variables.
 NOTE: Compressing data set WORK.ASCLNKS increased size by 50.00 percent.
 Compressed is 6 pages; un-compressed would require 4 pages.
 NOTE: DATA statement used (Total process time):
 real time 0.10 seconds
 cpu time 0.10 seconds

```
57
58      proc report data=asclnks (obs=75) nowd headskip;
59          define condidx  /'CONDIDX' order;
60          define EVNTIDX  /'EVNTIDX';
61          define EVENTYPE  /'EVENTYPE';
62          break after condidx / skip;
63          format eventype eventype.;
64          title3 "sample print of work.asclnks - sorted by condidx";
65          title4 "events linked to asthma condition records";
66      run;
```

NOTE: Multiple concurrent threads will be used to summarize data.
 NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
 NOTE: The PROCEDURE REPORT printed pages 2-3.
 NOTE: PROCEDURE REPORT used (Total process time):
 real time 0.02 seconds
 cpu time 0.01 seconds

```
67
68      PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;
```

NOTE: There were 7037 observations read from the data set WORK.ASCLNKS.
 NOTE: SAS sort was used.
 NOTE: The data set WORK.ASCLNKS has 7037 observations and 3 variables.
 NOTE: Compressing data set WORK.ASCLNKS increased size by 50.00 percent.
 Compressed is 6 pages; un-compressed would require 4 pages.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.00 seconds
 cpu time 0.01 seconds

```

69
70     proc print data=asclnks (obs=50);
71         format eventype eventype.;
72         title3 "sample print of work.asclnks - sorted by evntidx";
73     run;

```

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.

NOTE: The PROCEDURE PRINT printed page 4.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time      0.00 seconds
cpu time       0.00 seconds

```

```

74
75     DATA ASCLNKS;
76         SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
77         BY EVNTIDX;
78         IF FIRST.EVNTIDX;
79     RUN;

```

NOTE: There were 7037 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 7026 observations and 2 variables.

NOTE: Compressing data set WORK.ASCLNKS increased size by 66.67 percent.

Compressed is 5 pages; un-compressed would require 3 pages.

NOTE: DATA statement used (Total process time):

```

real time      0.00 seconds
cpu time       0.00 seconds

```

```

80
81     proc print data=asclnks (obs=50);
82         format eventype eventype.;
83         title3 "sample print of unique evntidxs from work.asclnks";
84     run;

```

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time      0.00 seconds
cpu time       0.01 seconds

```

```

85
86     *-----
87     * Get PMED records linked to asthma condition records.
88     *-----;
89     PROC SORT DATA=IN.H178A OUT=PMED; BY LINKIDX; RUN;

```

NOTE: There were 330453 observations read from the data set IN.H178A.

NOTE: SAS threaded sort was used.

NOTE: The data set WORK.PMED has 330453 observations and 13 variables.

NOTE: Compressing data set WORK.PMED decreased size by 20.31 percent.

Compressed is 710 pages; un-compressed would require 891 pages.

NOTE: PROCEDURE SORT used (Total process time):

```

real time      3.14 seconds
cpu time       0.57 seconds

```

```

90
91      DATA ASPMEDS;
92          MERGE PMED (KEEP=LINKIDX RXRECIDX RXNAME RXXP15X PERWT15F)
93              ASCLNKS (IN=INASCLNK KEEP=EVNTIDX RENAME=(EVNTIDX=LINKIDX));
94          BY LINKIDX;
95          IF INASCLNK & PERWT15F>0;
96      RUN;

```

NOTE: There were 330453 observations read from the data set WORK.PMED.
 NOTE: There were 7026 observations read from the data set WORK.ASCLNKS.
 NOTE: The data set WORK.ASPMEDS has 9719 observations and 5 variables.
 NOTE: Compressing data set WORK.ASPMEDS decreased size by 20.00 percent.
 Compressed is 12 pages; un-compressed would require 15 pages.
 NOTE: DATA statement used (Total process time):
 real time 0.13 seconds
 cpu time 0.14 seconds

```

97
98      proc report data=aspmeds (obs=300) nowd headskip;
99      column LINKIDX RXRECIDX RXNAME RXXP15X PERWT15F;
100     define linkidx / 'LINKIDX' order;
101     define rxrecidx / 'RXRECIDX';
102     define rxname / 'RXNAME';
103     define rxxp15x / 'RXXP15X' display format=8.2;
104     define perwt15f / 'PERWT15F' /*display format=8.2*/;
105     break after linkidx / skip;
106     title3 "sample print of work.aspmeds";
107     title4 "PMED (HC-178A) records which link to condition records coded as asthma";
108     run;

```

NOTE: Multiple concurrent threads will be used to summarize data.
 NOTE: There were 300 observations read from the data set WORK.ASPMEDS.
 NOTE: The PROCEDURE REPORT printed pages 6-14.
 NOTE: PROCEDURE REPORT used (Total process time):
 real time 0.05 seconds
 cpu time 0.04 seconds

```

109
110     PROC MEANS DATA=ASPMEDS N SUM;
111     VAR RXXP15X;
112     TITLE3 "Total Rx expenditures associated with asthma";
113     RUN;

```

NOTE: Multiple concurrent threads will be used to summarize data.
 NOTE: There were 9719 observations read from the data set WORK.ASPMEDS.
 NOTE: The PROCEDURE MEANS printed page 15.
 NOTE: PROCEDURE MEANS used (Total process time):
 real time 0.01 seconds
 cpu time 0.00 seconds

```

114
115     PROC MEANS DATA=ASPMEDS N SUM;

```

```
116      VAR RXXP15X;  
117      WEIGHT PERWT15F;  
118      TITLE3 "Total Rx expenditures associated with asthma";  
119      TITLE5 "Weighted";  
120      RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 9719 observations read from the data set WORK.ASPMEDS.
NOTE: The PROCEDURE MEANS printed page 16.
NOTE: PROCEDURE MEANS used (Total process time):
 real time 0.00 seconds
 cpu time 0.01 seconds

```
121  
122      ods rtf close;  
123
```

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
NOTE: The SAS System used:
 real time 6.01 seconds
 cpu time 1.59 seconds

HC-178I
Sample SAS Job for Example B
sample print of work.asconds - sorted by condidx
COND (H180) records where cccodex=128

| Obs | CONDIDX | CCCODEX |
|-----|--------------|---------|
| 1 | 600011010231 | 128 |
| 2 | 600011020121 | 128 |
| 3 | 600031030011 | 128 |
| 4 | 600211010061 | 128 |
| 5 | 600331010131 | 128 |
| 6 | 600341010031 | 128 |
| 7 | 600561060021 | 128 |
| 8 | 600632010052 | 128 |
| 9 | 601081010041 | 128 |
| 10 | 601081030011 | 128 |
| 11 | 601181020021 | 128 |
| 12 | 601201010011 | 128 |
| 13 | 601381010011 | 128 |
| 14 | 601381040021 | 128 |
| 15 | 601461010051 | 128 |
| 16 | 601481020051 | 128 |
| 17 | 601661020061 | 128 |
| 18 | 601711020011 | 128 |
| 19 | 601811020021 | 128 |
| 20 | 601921030011 | 128 |
| 21 | 601941020061 | 128 |
| 22 | 601941040011 | 128 |
| 23 | 602201010031 | 128 |
| 24 | 602201040011 | 128 |
| 25 | 602221020071 | 128 |
| 26 | 602321020011 | 128 |
| 27 | 602421030021 | 128 |
| 28 | 602581020032 | 128 |
| 29 | 602701010031 | 128 |
| 30 | 602851030061 | 128 |
| 31 | 602851030101 | 128 |
| 32 | 603031010021 | 128 |
| 33 | 603101010161 | 128 |
| 34 | 603121010061 | 128 |
| 35 | 603151010041 | 128 |
| 36 | 603431030011 | 128 |
| 37 | 603811010141 | 128 |
| 38 | 603881010061 | 128 |
| 39 | 603981010031 | 128 |
| 40 | 604081040011 | 128 |
| 41 | 604261020051 | 128 |
| 42 | 604301010041 | 128 |
| 43 | 604301020011 | 128 |
| 44 | 604321010041 | 128 |
| 45 | 604321020011 | 128 |
| 46 | 604321040011 | 128 |
| 47 | 604331010031 | 128 |
| 48 | 604361010041 | 128 |
| 49 | 604421010031 | 128 |
| 50 | 604661020051 | 128 |

HC-178I
Sample SAS Job for Example B
sample print of work.asclinks - sorted by condidx
events linked to asthma condition records

| CONDIDX | EVNTIDX | EVENTYPE |
|--------------|--------------|----------|
| 600011010231 | 600011012191 | 8 PMED |
| 600011020121 | 600011020521 | 1 MVIS |
| 600011020121 | 600011020811 | 8 PMED |
| 600211010061 | 600211010191 | 1 MVIS |
| 600211010061 | 600211010211 | 3 EROM |
| 600211010061 | 600211010311 | 8 PMED |
| 600211010061 | 600211010331 | 1 MVIS |
| 600211010061 | 600211010341 | 1 MVIS |
| 600211010061 | 600211010351 | 1 MVIS |
| 600211010061 | 600211010461 | 8 PMED |
| 600211010061 | 600211010471 | 8 PMED |
| 600211010061 | 600211010481 | 8 PMED |
| 600211010061 | 600211010491 | 8 PMED |
| 600211010061 | 600211010501 | 8 PMED |
| 600211010061 | 600211010511 | 8 PMED |
| 600211010061 | 600211010521 | 1 MVIS |
| 600211010061 | 600211010601 | 8 PMED |
| 600211010061 | 600211010611 | 8 PMED |
| 600211010061 | 600211010621 | 8 PMED |
| 600211010061 | 600211010631 | 8 PMED |
| 600331010131 | 600331010631 | 8 PMED |
| 600341010031 | 600341010421 | 8 PMED |
| 600341010031 | 600341010561 | 1 MVIS |
| 600341010031 | 600341010571 | 1 MVIS |
| 600341010031 | 600341010581 | 1 MVIS |
| 600341010031 | 600341010591 | 1 MVIS |
| 600341010031 | 600341010601 | 1 MVIS |
| 600341010031 | 600341010621 | 1 MVIS |
| 600341010031 | 600341010631 | 1 MVIS |
| 600341010031 | 600341010641 | 1 MVIS |
| 600341010031 | 600341010671 | 8 PMED |
| 600561060021 | 600561060101 | 1 MVIS |
| 600561060021 | 600561060111 | 1 MVIS |
| 600561060021 | 600561060121 | 1 MVIS |
| 600561060021 | 600561060131 | 8 PMED |
| 600632010052 | 600632010012 | 3 EROM |
| 601201010011 | 601201010081 | 8 PMED |
| 601201010011 | 601201010091 | 8 PMED |
| 601201010011 | 601201010111 | 1 MVIS |
| 601201010011 | 601201010121 | 1 MVIS |
| 601201010011 | 601201010131 | 1 MVIS |
| 601201010011 | 601201010251 | 1 MVIS |
| 601201010011 | 601201010261 | 1 MVIS |
| 601201010011 | 601201010271 | 1 MVIS |
| 601201010011 | 601201010281 | 1 MVIS |
| 601201010011 | 601201010351 | 8 PMED |
| 601381010011 | 601381010091 | 2 OPAT |
| 601381010011 | 601381010101 | 8 PMED |
| 601381010011 | 601381010111 | 8 PMED |
| 601381040021 | 601381040051 | 8 PMED |
| 601481020051 | 601481020461 | 8 PMED |
| 601481020051 | 601481020591 | 1 MVIS |
| 601481020051 | 601481020601 | 8 PMED |
| 601661020061 | 601661020381 | 8 PMED |
| 601661020061 | 601661020391 | 8 PMED |
| 601811020021 | 601811020491 | 8 PMED |
| 601941020061 | 601941020461 | 8 PMED |
| 601941020061 | 601941020471 | 8 PMED |
| 601941020061 | 601941020821 | 8 PMED |
| 601941020061 | 601941020831 | 8 PMED |
| 601941020061 | 601941021181 | 8 PMED |
| 601941020061 | 601941021191 | 8 PMED |
| 601941040011 | 601941040201 | 8 PMED |
| 602221020071 | 602221020192 | 1 MVIS |
| 602421030021 | 602421030031 | 3 EROM |
| 602421030021 | 602421030041 | 4 STAZ |
| 602421030021 | 602421030051 | 8 PMED |
| 602581020032 | 602581021412 | 8 PMED |
| 602851030061 | 602851030281 | 8 PMED |

| CONDIDX | EVNTIDX | EVENTYPE |
|--------------|--------------|----------|
| 602851030061 | 602851030301 | 8 PMED |
| 602851030101 | 602851030311 | 1 MVIS |
| 602851030101 | 602851030321 | 1 MVIS |
| 602851030101 | 602851030351 | 1 MVIS |
| 602851030101 | 602851030441 | 8 PMED |
| 602851030101 | 602851030451 | 8 PMED |

HC-178I
Sample SAS Job for Example B
sample print of work.asclnks - sorted by evntidx

| Obs | CONDIDX | EVNTIDX | EVENTYPE |
|-----|--------------|--------------|----------|
| 1 | 600011010231 | 600011012191 | 8 PMED |
| 2 | 600011020121 | 600011020521 | 1 MVIS |
| 3 | 600011020121 | 600011020811 | 8 PMED |
| 4 | 600211010061 | 600211010191 | 1 MVIS |
| 5 | 600211010061 | 600211010211 | 3 EROM |
| 6 | 600211010061 | 600211010311 | 8 PMED |
| 7 | 600211010061 | 600211010331 | 1 MVIS |
| 8 | 600211010061 | 600211010341 | 1 MVIS |
| 9 | 600211010061 | 600211010351 | 1 MVIS |
| 10 | 600211010061 | 600211010461 | 8 PMED |
| 11 | 600211010061 | 600211010471 | 8 PMED |
| 12 | 600211010061 | 600211010481 | 8 PMED |
| 13 | 600211010061 | 600211010491 | 8 PMED |
| 14 | 600211010061 | 600211010501 | 8 PMED |
| 15 | 600211010061 | 600211010511 | 8 PMED |
| 16 | 600211010061 | 600211010521 | 1 MVIS |
| 17 | 600211010061 | 600211010601 | 8 PMED |
| 18 | 600211010061 | 600211010611 | 8 PMED |
| 19 | 600211010061 | 600211010621 | 8 PMED |
| 20 | 600211010061 | 600211010631 | 8 PMED |
| 21 | 600331010131 | 600331010631 | 8 PMED |
| 22 | 600341010031 | 600341010421 | 8 PMED |
| 23 | 600341010031 | 600341010561 | 1 MVIS |
| 24 | 600341010031 | 600341010571 | 1 MVIS |
| 25 | 600341010031 | 600341010581 | 1 MVIS |
| 26 | 600341010031 | 600341010591 | 1 MVIS |
| 27 | 600341010031 | 600341010601 | 1 MVIS |
| 28 | 600341010031 | 600341010621 | 1 MVIS |
| 29 | 600341010031 | 600341010631 | 1 MVIS |
| 30 | 600341010031 | 600341010641 | 1 MVIS |
| 31 | 600341010031 | 600341010671 | 8 PMED |
| 32 | 600561060021 | 600561060101 | 1 MVIS |
| 33 | 600561060021 | 600561060111 | 1 MVIS |
| 34 | 600561060021 | 600561060121 | 1 MVIS |
| 35 | 600561060021 | 600561060131 | 8 PMED |
| 36 | 600632010052 | 600632010012 | 3 EROM |
| 37 | 601201010011 | 601201010081 | 8 PMED |
| 38 | 601201010011 | 601201010091 | 8 PMED |
| 39 | 601201010011 | 601201010111 | 1 MVIS |
| 40 | 601201010011 | 601201010121 | 1 MVIS |
| 41 | 601201010011 | 601201010131 | 1 MVIS |
| 42 | 601201010011 | 601201010251 | 1 MVIS |
| 43 | 601201010011 | 601201010261 | 1 MVIS |
| 44 | 601201010011 | 601201010271 | 1 MVIS |
| 45 | 601201010011 | 601201010281 | 1 MVIS |
| 46 | 601201010011 | 601201010351 | 8 PMED |
| 47 | 601381010011 | 601381010091 | 2 OPAT |
| 48 | 601381010011 | 601381010101 | 8 PMED |
| 49 | 601381010011 | 601381010111 | 8 PMED |
| 50 | 601381040021 | 601381040051 | 8 PMED |

HC-178I
Sample SAS Job for Example B
sample print of unique evntidxs from work.asclnks

| Obs | EVNTIDX | EVENTYPE |
|-----|--------------|----------|
| 1 | 600011012191 | 8 PMED |
| 2 | 600011020521 | 1 MVIS |
| 3 | 600011020811 | 8 PMED |
| 4 | 600211010191 | 1 MVIS |
| 5 | 600211010211 | 3 EROM |
| 6 | 600211010311 | 8 PMED |
| 7 | 600211010331 | 1 MVIS |
| 8 | 600211010341 | 1 MVIS |
| 9 | 600211010351 | 1 MVIS |
| 10 | 600211010461 | 8 PMED |
| 11 | 600211010471 | 8 PMED |
| 12 | 600211010481 | 8 PMED |
| 13 | 600211010491 | 8 PMED |
| 14 | 600211010501 | 8 PMED |
| 15 | 600211010511 | 8 PMED |
| 16 | 600211010521 | 1 MVIS |
| 17 | 600211010601 | 8 PMED |
| 18 | 600211010611 | 8 PMED |
| 19 | 600211010621 | 8 PMED |
| 20 | 600211010631 | 8 PMED |
| 21 | 600331010631 | 8 PMED |
| 22 | 600341010421 | 8 PMED |
| 23 | 600341010561 | 1 MVIS |
| 24 | 600341010571 | 1 MVIS |
| 25 | 600341010581 | 1 MVIS |
| 26 | 600341010591 | 1 MVIS |
| 27 | 600341010601 | 1 MVIS |
| 28 | 600341010621 | 1 MVIS |
| 29 | 600341010631 | 1 MVIS |
| 30 | 600341010641 | 1 MVIS |
| 31 | 600341010671 | 8 PMED |
| 32 | 600561060101 | 1 MVIS |
| 33 | 600561060111 | 1 MVIS |
| 34 | 600561060121 | 1 MVIS |
| 35 | 600561060131 | 8 PMED |
| 36 | 600632010012 | 3 EROM |
| 37 | 601201010081 | 8 PMED |
| 38 | 601201010091 | 8 PMED |
| 39 | 601201010111 | 1 MVIS |
| 40 | 601201010121 | 1 MVIS |
| 41 | 601201010131 | 1 MVIS |
| 42 | 601201010251 | 1 MVIS |
| 43 | 601201010261 | 1 MVIS |
| 44 | 601201010271 | 1 MVIS |
| 45 | 601201010281 | 1 MVIS |
| 46 | 601201010351 | 8 PMED |
| 47 | 601381010091 | 2 OPAT |
| 48 | 601381010101 | 8 PMED |
| 49 | 601381010111 | 8 PMED |
| 50 | 601381040051 | 8 PMED |

HC-178I
Sample SAS Job for Example B
sample print of work.aspmeds
PMED (HC-178A) records which link to condition records coded as asthma

| LINKIDX | RXRECIDX | RXNAME | RXXP15X | PERWT15F |
|--------------|-----------------|--------------------|---------|--------------|
| 600011012191 | 600011012191001 | COMBIVENT | 1106.97 | 21854.981705 |
| 600011020811 | 600011020811001 | PROAIR HFA | 48.56 | 18169.604822 |
| 600211010311 | 600211010311001 | SPIRIVA | 299.98 | 28438.732334 |
| 600211010311 | 600211010311002 | SPIRIVA | 299.98 | 28438.732334 |
| 600211010311 | 600211010311003 | SPIRIVA | 299.98 | 28438.732334 |
| 600211010311 | 600211010311004 | SPIRIVA | 299.98 | 28438.732334 |
| 600211010461 | 600211010461001 | SPIRIVA | 317.95 | 28438.732334 |
| 600211010461 | 600211010461002 | SPIRIVA | 287.95 | 28438.732334 |
| 600211010461 | 600211010461003 | SPIRIVA | 287.95 | 28438.732334 |
| 600211010461 | 600211010461004 | SPIRIVA | 317.95 | 28438.732334 |
| 600211010461 | 600211010461005 | SPIRIVA | 317.95 | 28438.732334 |
| 600211010461 | 600211010461006 | SPIRIVA | 317.95 | 28438.732334 |
| 600211010471 | 600211010471001 | PROAIR HFA | 50.80 | 28438.732334 |
| 600211010471 | 600211010471002 | PROAIR HFA | 50.80 | 28438.732334 |
| 600211010471 | 600211010471003 | PROAIR HFA | 50.80 | 28438.732334 |
| 600211010471 | 600211010471004 | PROAIR HFA | 50.80 | 28438.732334 |
| 600211010471 | 600211010471005 | PROAIR HFA | 50.80 | 28438.732334 |
| 600211010471 | 600211010471006 | PROAIR HFA | 101.09 | 28438.732334 |
| 600211010481 | 600211010481001 | ALBUTEROL | 26.71 | 28438.732334 |
| 600211010481 | 600211010481002 | ALBUTEROL | 26.71 | 28438.732334 |
| 600211010481 | 600211010481003 | ALBUTEROL | 26.71 | 28438.732334 |
| 600211010481 | 600211010481004 | ALBUTEROL | 26.71 | 28438.732334 |
| 600211010491 | 600211010491001 | BUDESONIDE | 361.56 | 28438.732334 |
| 600211010491 | 600211010491002 | BUDESONIDE | 361.56 | 28438.732334 |
| 600211010491 | 600211010491003 | BUDESONIDE | 339.24 | 28438.732334 |
| 600211010491 | 600211010491004 | BUDESONIDE | 339.24 | 28438.732334 |
| 600211010491 | 600211010491005 | BUDESONIDE | 339.24 | 28438.732334 |
| 600211010491 | 600211010491006 | BUDESONIDE | 350.46 | 28438.732334 |
| 600211010501 | 600211010501001 | BUDESONIDE | 361.56 | 28438.732334 |
| 600211010511 | 600211010511001 | PERFOROMIST | 474.56 | 28438.732334 |
| 600211010511 | 600211010511002 | PERFOROMIST | 474.56 | 28438.732334 |
| 600211010511 | 600211010511003 | PERFOROMIST | 500.48 | 28438.732334 |
| 600211010511 | 600211010511004 | PERFOROMIST | 500.48 | 28438.732334 |
| 600211010511 | 600211010511005 | PERFOROMIST | 500.48 | 28438.732334 |
| 600211010511 | 600211010511006 | PERFOROMIST | 524.04 | 28438.732334 |
| 600211010601 | 600211010601001 | SPIRIVA | 317.95 | 28438.732334 |
| 600211010601 | 600211010601002 | SPIRIVA | 317.95 | 28438.732334 |
| 600211010611 | 600211010611001 | PROAIR HFA | 101.09 | 28438.732334 |
| 600211010611 | 600211010611002 | PROAIR HFA | 101.09 | 28438.732334 |
| 600211010621 | 600211010621001 | BUDESONIDE | 350.46 | 28438.732334 |
| 600211010621 | 600211010621002 | BUDESONIDE | 350.46 | 28438.732334 |
| 600211010631 | 600211010631001 | PERFOROMIST | 524.04 | 28438.732334 |
| 600211010631 | 600211010631002 | PERFOROMIST | 524.04 | 28438.732334 |
| 600331010631 | 600331010631001 | ALBUTEROL | 39.99 | 59588.119667 |
| 600341010421 | 600341010421001 | MONTELUKAST | 24.76 | 11855.691664 |
| 600341010671 | 600341010671001 | SYMBICORT | 40.00 | 11855.691664 |
| 600561060131 | 600561060131001 | TIGER BALM | 3.67 | 3693.981722 |
| 601201010081 | 601201010081001 | METHYLPRED | 6.29 | 9079.736909 |
| 601201010091 | 601201010091001 | PROAIR HFA | 51.80 | 9079.736909 |
| 601201010351 | 601201010351001 | ARNUITY ELPT | 143.08 | 9079.736909 |
| 601201010351 | 601201010351002 | ARNUITY ELPT | 143.08 | 9079.736909 |
| 601381010101 | 601381010101001 | PREDNISONE | 7.75 | 3861.144786 |
| 601381010111 | 601381010111001 | PROAIR HFA | 31.12 | 3861.144786 |
| 601381040051 | 601381040051001 | SODIUM CHLOR | 20.00 | 3777.122696 |
| 601481020461 | 601481020461001 | LORAZEPAM | 4.00 | 18789.806503 |
| 601481020461 | 601481020461002 | LORAZEPAM | 4.00 | 18789.806503 |
| 601481020461 | 601481020461003 | LORAZEPAM | 4.00 | 18789.806503 |
| 601481020461 | 601481020461004 | LORAZEPAM | 4.00 | 18789.806503 |
| 601481020461 | 601481020461005 | LORAZEPAM | 4.00 | 18789.806503 |
| 601481020461 | 601481020461006 | LORAZEPAM | 4.00 | 18789.806503 |
| 601481020601 | 601481020601001 | Mometasone Furoate | 124.11 | 18789.806503 |
| 601481020601 | 601481020601002 | Mometasone Furoate | 212.76 | 18789.806503 |
| 601481020601 | 601481020601003 | Mometasone Furoate | 124.11 | 18789.806503 |
| 601661020381 | 601661020381001 | DULERA | 489.43 | 5065.768222 |
| 601661020381 | 601661020381002 | DULERA | 489.43 | 5065.768222 |
| 601661020391 | 601661020391001 | PROAIR HFA | 51.41 | 5065.768222 |
| 601661020391 | 601661020391002 | PROAIR HFA | 51.41 | 5065.768222 |
| 601811020491 | 601811020491001 | ALBUTEROL | 17.20 | 12547.945563 |
| 601811020491 | 601811020491002 | ALBUTEROL | 17.20 | 12547.945563 |

| LINKIDX | RXRECIDX | RXNAME | RXXP15X | PERWT15F |
|--------------|-----------------|--------------|---------|--------------|
| 601811020491 | 601811020491003 | ALBUTEROL | 14.63 | 12547.945563 |
| 601811020491 | 601811020491004 | ALBUTEROL | 14.63 | 12547.945563 |
| 601811020491 | 601811020491005 | ALBUTEROL | 14.63 | 12547.945563 |
| 601941020461 | 601941020461001 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941020471 | 601941020471001 | DULERA | 263.82 | 6123.827998 |
| 601941020821 | 601941020821001 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941020821 | 601941020821002 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941020821 | 601941020821003 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941020821 | 601941020821004 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941020821 | 601941020821005 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941020821 | 601941020821006 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941020831 | 601941020831001 | DULERA | 263.82 | 6123.827998 |
| 601941020831 | 601941020831002 | DULERA | 263.82 | 6123.827998 |
| 601941020831 | 601941020831003 | DULERA | 263.82 | 6123.827998 |
| 601941020831 | 601941020831004 | DULERA | 263.82 | 6123.827998 |
| 601941020831 | 601941020831005 | DULERA | 263.82 | 6123.827998 |
| 601941020831 | 601941020831006 | DULERA | 263.82 | 6123.827998 |
| 601941021181 | 601941021181001 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941021181 | 601941021181002 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941021181 | 601941021181003 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941021181 | 601941021181004 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941021181 | 601941021181005 | PROAIR HFA | 4.19 | 6123.827998 |
| 601941021181 | 601941021181006 | PROAIR HFA | 71.18 | 6123.827998 |
| 601941021191 | 601941021191001 | DULERA | 263.82 | 6123.827998 |
| 601941021191 | 601941021191002 | DULERA | 263.82 | 6123.827998 |
| 601941021191 | 601941021191003 | DULERA | 263.82 | 6123.827998 |
| 601941021191 | 601941021191004 | DULERA | 263.82 | 6123.827998 |
| 601941021191 | 601941021191005 | DULERA | 263.82 | 6123.827998 |
| 601941021191 | 601941021191006 | DULERA | 263.82 | 6123.827998 |
| 601941040201 | 601941040201001 | VENTOLIN HFA | 63.99 | 5658.643381 |
| 601941040201 | 601941040201002 | VENTOLIN HFA | 63.99 | 5658.643381 |
| 601941040201 | 601941040201003 | VENTOLIN HFA | 63.99 | 5658.643381 |
| 601941040201 | 601941040201004 | VENTOLIN HFA | 63.99 | 5658.643381 |
| 601941040201 | 601941040201005 | VENTOLIN HFA | 63.99 | 5658.643381 |
| 601941040201 | 601941040201006 | VENTOLIN HFA | 63.99 | 5658.643381 |
| 602421030051 | 602421030051001 | ALBUTEROL | 4.50 | 5061.333551 |
| 602581021412 | 602581021412001 | VENTOLIN HFA | 46.36 | 9548.795401 |
| 602851030281 | 602851030281001 | ALBUTEROL | 56.78 | 23855.163106 |
| 602851030301 | 602851030301001 | BUDESONIDE | 483.29 | 23855.163106 |
| 602851030301 | 602851030301002 | BUDESONIDE | 483.29 | 23855.163106 |
| 602851030441 | 602851030441001 | ALBUTEROL | 56.78 | 23855.163106 |
| 602851030441 | 602851030441002 | ALBUTEROL | 56.78 | 23855.163106 |
| 602851030451 | 602851030451001 | BUDESONIDE | 466.32 | 23855.163106 |
| 602851030451 | 602851030451002 | BUDESONIDE | 466.72 | 23855.163106 |
| 602851030451 | 602851030451003 | BUDESONIDE | 466.72 | 23855.163106 |
| 602851030461 | 602851030461001 | VENTOLIN HFA | 47.86 | 23855.163106 |
| 603121010231 | 603121010231001 | ADVAIR DISKU | 214.94 | 5683.005299 |
| 603121010411 | 603121010411001 | SYMBICORT | 1016.22 | 5683.005299 |
| 603121010551 | 603121010551001 | FLUTICASONE | 7.50 | 5683.005299 |
| 603431030531 | 603431030531001 | ADVAIR DISKU | 867.24 | 16990.754700 |
| 603431030531 | 603431030531002 | ADVAIR DISKU | 867.24 | 16990.754700 |
| 603431030631 | 603431030631001 | ADVAIR DISKU | 867.24 | 16990.754700 |
| 603811010941 | 603811010941001 | FLUTICASONE | 39.74 | 7749.464929 |
| 603811010941 | 603811010941002 | FLUTICASONE | 14.25 | 7749.464929 |
| 603811010941 | 603811010941003 | FLUTICASONE | 14.25 | 7749.464929 |
| 603811010961 | 603811010961001 | ADVAIR HFA | 630.15 | 7749.464929 |
| 603881010651 | 603881010651001 | ADVAIR DISKU | 294.44 | 23353.084117 |
| 603881010651 | 603881010651002 | ADVAIR DISKU | 294.44 | 23353.084117 |
| 603881010761 | 603881010761001 | ALBUTEROL | 15.36 | 23353.084117 |
| 603881010761 | 603881010761002 | ALBUTEROL | 15.36 | 23353.084117 |
| 603881010821 | 603881010821001 | ADVAIR DISKU | 294.44 | 23353.084117 |
| 603881010821 | 603881010821002 | ADVAIR DISKU | 294.44 | 23353.084117 |
| 603881010821 | 603881010821003 | ADVAIR DISKU | 294.44 | 23353.084117 |
| 603881010821 | 603881010821004 | ADVAIR DISKU | 294.44 | 23353.084117 |
| 603881010821 | 603881010821005 | ADVAIR DISKU | 294.44 | 23353.084117 |
| 603881010821 | 603881010821006 | ADVAIR DISKU | 294.44 | 23353.084117 |
| 603881011331 | 603881011331001 | ADVAIR DISKU | 306.21 | 23353.084117 |
| 603881011331 | 603881011331002 | ADVAIR DISKU | 306.21 | 23353.084117 |
| 603881011361 | 603881011361001 | ALBUTEROL | 15.36 | 23353.084117 |
| 603881011361 | 603881011361002 | ALBUTEROL | 15.36 | 23353.084117 |
| 604081040101 | 604081040101001 | VENTOLIN HFA | 48.32 | 1448.263088 |
| 604081040111 | 604081040111001 | FLOVENT HFA | 199.14 | 1448.263088 |
| 604081040121 | 604081040121001 | FLUTICASONE | 7.00 | 1448.263088 |
| 604261020551 | 604261020551001 | PROAIR HFA | 31.12 | 2435.005838 |

| LINKIDX | RXRECIDX | RXNAME | RXXP15X | PERWT15F |
|--------------|-----------------|-----------------------|---------|--------------|
| 604261020561 | 604261020561001 | QVAR | 66.12 | 2435.005838 |
| 604261020731 | 604261020731001 | PROAIR HFA | 31.12 | 2435.005838 |
| 604301011651 | 604301011651001 | ALBUTEROL | 3.32 | 2850.351905 |
| 604301011651 | 604301011651002 | ALBUTEROL | 3.32 | 2850.351905 |
| 604301011651 | 604301011651003 | ALBUTEROL | 3.32 | 2850.351905 |
| 604301011651 | 604301011651004 | ALBUTEROL | 3.32 | 2850.351905 |
| 604301011661 | 604301011661001 | PREDNISONE | 2.05 | 2850.351905 |
| 604301021321 | 604301021321001 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021321 | 604301021321002 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021321 | 604301021321003 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021321 | 604301021321004 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021321 | 604301021321005 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021321 | 604301021321006 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021321 | 604301021321007 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021321 | 604301021321008 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021331 | 604301021331001 | PREDNISONE | 12.78 | 2800.728053 |
| 604301021331 | 604301021331002 | PREDNISONE | 12.78 | 2800.728053 |
| 604301021351 | 604301021351001 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021351 | 604301021351002 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021351 | 604301021351003 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021351 | 604301021351004 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021351 | 604301021351005 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021351 | 604301021351006 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021351 | 604301021351007 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021351 | 604301021351008 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021361 | 604301021361001 | VIOS | 55.96 | 2800.728053 |
| 604301021551 | 604301021551001 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021551 | 604301021551002 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021551 | 604301021551003 | PROVENTIL | 64.27 | 2800.728053 |
| 604301021551 | 604301021551004 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021551 | 604301021551005 | PROVENTIL | 69.72 | 2800.728053 |
| 604301021551 | 604301021551006 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021551 | 604301021551007 | PROVENTIL | 67.15 | 2800.728053 |
| 604301021561 | 604301021561001 | VIOS | 55.96 | 2800.728053 |
| 604301021581 | 604301021581001 | PREDNISONE | 12.78 | 2800.728053 |
| 604361010261 | 604361010261001 | SYMBICORT | 985.26 | 4002.721680 |
| 604361010261 | 604361010261002 | SYMBICORT | 985.26 | 4002.721680 |
| 604361010281 | 604361010281001 | ALBUTEROL | 41.98 | 4002.721680 |
| 604361010281 | 604361010281002 | ALBUTEROL | 41.98 | 4002.721680 |
| 604361010281 | 604361010281003 | ALBUTEROL | 41.98 | 4002.721680 |
| 604361010351 | 604361010351001 | ALBUTEROL | 25.46 | 4002.721680 |
| 604361010361 | 604361010361001 | SYMBICORT | 245.36 | 4002.721680 |
| 604661020381 | 604661020381001 | Fluticasone HFA | 150.79 | 10867.805525 |
| 604661020391 | 604661020391001 | Albuterol Sulfate HFA | 21.32 | 10867.805525 |
| 604801010421 | 604801010421001 | Albuterol | 19.53 | 9420.546862 |
| 604801010431 | 604801010431001 | Fluticasone Prop | 33.72 | 9420.546862 |
| 604841010271 | 604841010271001 | SPIRIVA | 966.99 | 2009.933562 |
| 604841010291 | 604841010291001 | PROAIR HFA | 52.02 | 2009.933562 |
| 604841010331 | 604841010331001 | SPIRIVA | 966.99 | 2009.933562 |
| 605111020341 | 605111020341001 | MONTELUKAST | 24.76 | 28712.248076 |
| 605111020401 | 605111020401001 | MONTELUKAST | 24.76 | 28712.248076 |
| 605111020401 | 605111020401002 | MONTELUKAST | 24.76 | 28712.248076 |
| 605111020421 | 605111020421001 | PROVENTIL | 215.97 | 28712.248076 |
| 605111020421 | 605111020421002 | PROVENTIL | 224.01 | 28712.248076 |
| 605111020541 | 605111020541001 | MONTELUKAST | 24.76 | 28712.248076 |
| 605111020541 | 605111020541002 | MONTELUKAST | 23.77 | 28712.248076 |
| 605111020551 | 605111020551001 | PROVENTIL | 33.39 | 28712.248076 |
| 605111020551 | 605111020551002 | PROVENTIL | 194.64 | 28712.248076 |
| 605291010441 | 605291010441001 | MEDROXYPR AC | 5.08 | 12452.720763 |
| 605291040041 | 605291040041001 | SYMBICORT | 40.00 | 14340.638797 |
| 605351010631 | 605351010631001 | MONTELUKAST | 10.16 | 2895.679365 |
| 605351010631 | 605351010631002 | MONTELUKAST | 10.16 | 2895.679365 |
| 605351010631 | 605351010631003 | MONTELUKAST | 12.10 | 2895.679365 |
| 605351010631 | 605351010631004 | MONTELUKAST | 12.10 | 2895.679365 |
| 605351010641 | 605351010641001 | SPIRIVA | 301.53 | 2895.679365 |
| 605351010641 | 605351010641002 | SPIRIVA | 319.61 | 2895.679365 |
| 605351010641 | 605351010641003 | SPIRIVA | 319.61 | 2895.679365 |
| 605351010641 | 605351010641004 | SPIRIVA | 319.61 | 2895.679365 |
| 605351010661 | 605351010661001 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010661 | 605351010661002 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010661 | 605351010661003 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010661 | 605351010661004 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010671 | 605351010671001 | ADVAIR DISKU | 461.99 | 2895.679365 |
| 605351010671 | 605351010671002 | ADVAIR DISKU | 461.99 | 2895.679365 |

| LINKIDX | RXRECIDX | RXNAME | RXXP15X | PERWT15F |
|--------------|-----------------|--------------|---------|--------------|
| 605351010671 | 605351010671003 | ADVAIR DISKU | 461.99 | 2895.679365 |
| 605351010671 | 605351010671004 | ADVAIR DISKU | 461.99 | 2895.679365 |
| 605351010711 | 605351010711001 | SYMBICORT | 278.19 | 2895.679365 |
| 605351010711 | 605351010711002 | SYMBICORT | 278.19 | 2895.679365 |
| 605351010711 | 605351010711003 | SYMBICORT | 278.19 | 2895.679365 |
| 605351010711 | 605351010711004 | SYMBICORT | 278.19 | 2895.679365 |
| 605351010871 | 605351010871001 | MONTELUKAST | 6.56 | 2895.679365 |
| 605351010871 | 605351010871002 | MONTELUKAST | 6.56 | 2895.679365 |
| 605351010871 | 605351010871003 | MONTELUKAST | 6.56 | 2895.679365 |
| 605351010871 | 605351010871004 | MONTELUKAST | 10.16 | 2895.679365 |
| 605351010871 | 605351010871005 | MONTELUKAST | 10.16 | 2895.679365 |
| 605351010881 | 605351010881001 | SPIRIVA | 319.61 | 2895.679365 |
| 605351010881 | 605351010881002 | SPIRIVA | 319.61 | 2895.679365 |
| 605351010881 | 605351010881003 | SPIRIVA | 319.61 | 2895.679365 |
| 605351010881 | 605351010881004 | SPIRIVA | 319.61 | 2895.679365 |
| 605351010881 | 605351010881005 | SPIRIVA | 319.61 | 2895.679365 |
| 605351010901 | 605351010901001 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010901 | 605351010901002 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010901 | 605351010901003 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010901 | 605351010901004 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010901 | 605351010901005 | VENTOLIN HFA | 46.18 | 2895.679365 |
| 605351010911 | 605351010911001 | ADVAIR DISKU | 398.33 | 2895.679365 |
| 605351010911 | 605351010911002 | ADVAIR DISKU | 398.33 | 2895.679365 |
| 605351010911 | 605351010911003 | ADVAIR DISKU | 398.33 | 2895.679365 |
| 605351010911 | 605351010911004 | ADVAIR DISKU | 398.33 | 2895.679365 |
| 605351010911 | 605351010911005 | ADVAIR DISKU | 398.33 | 2895.679365 |
| 605351010931 | 605351010931001 | SYMBICORT | 278.19 | 2895.679365 |
| 605351010931 | 605351010931002 | SYMBICORT | 278.19 | 2895.679365 |
| 605351010931 | 605351010931003 | SYMBICORT | 278.19 | 2895.679365 |
| 605351010931 | 605351010931004 | SYMBICORT | 278.19 | 2895.679365 |
| 605351010931 | 605351010931005 | SYMBICORT | 278.19 | 2895.679365 |
| 605381030051 | 605381030051001 | ALBUTEROL | 3.46 | 6546.371039 |
| 605421060021 | 605421060021001 | PROAIR HFA | 97.90 | 3971.022504 |
| 605441020081 | 605441020081001 | ALBUTEROL | 39.98 | 4484.511401 |
| 605441040231 | 605441040231001 | ALBUTEROL | 46.99 | 4486.011406 |
| 605501020731 | 605501020731001 | ADVAIR HFA | 322.19 | 2987.663060 |
| 605501021011 | 605501021011001 | ADVAIR HFA | 423.21 | 2987.663060 |
| 605501021011 | 605501021011002 | ADVAIR HFA | 423.21 | 2987.663060 |
| 605571010061 | 605571010061001 | ADVAIR DISKU | 311.43 | 6916.587605 |
| 605571010101 | 605571010101001 | ADVAIR DISKU | 311.43 | 6916.587605 |
| 605571010101 | 605571010101002 | ADVAIR DISKU | 311.43 | 6916.587605 |
| 605571010111 | 605571010111001 | ADVAIR DISKU | 311.43 | 6916.587605 |
| 605571010121 | 605571010121001 | PROAIR HFA | 46.07 | 6916.587605 |
| 605961010041 | 605961010041001 | ALBUTEROL | 10.00 | 6630.754209 |
| 605961010041 | 605961010041002 | ALBUTEROL | 10.00 | 6630.754209 |
| 605961010041 | 605961010041003 | ALBUTEROL | 9.74 | 6630.754209 |
| 605961020051 | 605961020051001 | PROVENTIL | 65.56 | 5266.410397 |
| 606141030031 | 606141030031001 | PROAIR HFA | 200.45 | 7185.966390 |
| 606231030081 | 606231030081001 | MONTELUKAST | 10.00 | 5309.571708 |
| 606231030081 | 606231030081002 | MONTELUKAST | 10.00 | 5309.571708 |
| 606481020531 | 606481020531001 | PREDNISONE | 4.29 | 26841.250359 |
| 606481020541 | 606481020541001 | XOPENEX HFA | 55.24 | 26841.250359 |
| 606481020541 | 606481020541002 | XOPENEX HFA | 60.40 | 26841.250359 |
| 606481020561 | 606481020561001 | FLUTICASONE | 9.52 | 26841.250359 |
| 606481020561 | 606481020561002 | FLUTICASONE | 9.50 | 26841.250359 |
| 606481020591 | 606481020591001 | XOPENEX HFA | 59.81 | 26841.250359 |
| 606621010651 | 606621010651001 | TOPIRAMATE | 267.99 | 2180.253849 |
| 606621010651 | 606621010651002 | TOPIRAMATE | 267.99 | 2180.253849 |
| 606621010651 | 606621010651003 | TOPIRAMATE | 267.99 | 2180.253849 |
| 606621010651 | 606621010651004 | TOPIRAMATE | 267.99 | 2180.253849 |
| 606621010651 | 606621010651005 | TOPIRAMATE | 267.99 | 2180.253849 |
| 606621010651 | 606621010651006 | TOPIRAMATE | 267.99 | 2180.253849 |
| 606621010651 | 606621010651007 | TOPIRAMATE | 267.99 | 2180.253849 |
| 606621020221 | 606621020221001 | METFORMIN | 12.83 | 2224.342420 |
| 606621020531 | 606621020531001 | PROAIR HFA | 48.85 | 2224.342420 |
| 606621020531 | 606621020531002 | PROAIR HFA | 48.85 | 2224.342420 |
| 606621020531 | 606621020531003 | PROAIR HFA | 51.72 | 2224.342420 |
| 606621020531 | 606621020531004 | PROAIR HFA | 51.72 | 2224.342420 |
| 606831010301 | 606831010301001 | FLUTICASONE | 36.25 | 5899.049658 |
| 606831010301 | 606831010301002 | FLUTICASONE | 36.25 | 5899.049658 |
| 606831010301 | 606831010301003 | FLUTICASONE | 36.25 | 5899.049658 |
| 606831010301 | 606831010301004 | FLUTICASONE | 36.25 | 5899.049658 |
| 606831010301 | 606831010301005 | FLUTICASONE | 36.25 | 5899.049658 |
| 606831010301 | 606831010301006 | FLUTICASONE | 36.25 | 5899.049658 |

| LINKIDX | RXRECIDX | RXNAME | RXXP15X | PERWT15F |
|--------------|-----------------|------------|---------|--------------|
| 606981012401 | 606981012401001 | PROAIR HFA | 31.12 | 10534.531927 |
| 606981012401 | 606981012401002 | PROAIR HFA | 31.12 | 10534.531927 |
| 606981012401 | 606981012401003 | PROAIR HFA | 31.12 | 10534.531927 |
| 606981012411 | 606981012411001 | QVAR | 548.94 | 10534.531927 |
| 606981012411 | 606981012411002 | QVAR | 548.94 | 10534.531927 |
| 606981012751 | 606981012751001 | PROAIR HFA | 31.12 | 10534.531927 |
| 606981012751 | 606981012751002 | PROAIR HFA | 31.12 | 10534.531927 |
| 606981012761 | 606981012761001 | QVAR | 548.94 | 10534.531927 |
| 606981012761 | 606981012761002 | QVAR | 548.94 | 10534.531927 |

HC-178I
Sample SAS Job for Example B
Total Rx expenditures associated with asthma

Analysis Variable: RXXP15X SUM OF PAYMENTS RXSF15X-RXOU15X (IMPUTED)

| N | Sum |
|----------|------------|
| 9719 | 1436300.29 |

HC-178I
Sample SAS Job for Example B
Total Rx expenditures associated with asthma

Weighted

Analysis Variable: RXXP15X SUM OF PAYMENTS RXSF15X-RXOU15X (IMPUTED)

| N | Sum |
|------|-------------|
| 9719 | 13870833025 |

NOTE: Copyright (c) 2002-2012 by SAS Institute Inc., Cary, NC, USA.
 NOTE: SAS (r) Proprietary Software 9.4 (TS1M3)
 NOTE: This session is executing on the W32_7PRO platform.

NOTE: SAS initialization used:
 real time 0.72 seconds
 cpu time 0.20 seconds

NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS\SASMISC\autoexec_9432.sas.

NOTE: AUTOEXEC processing completed.

```

1
2
3
4
5      ods rtf file = 'C:\Data\sampleC.rtf'
6      ! bodytitle;
NOTE: Writing RTF Body file: C:\Data\sampleC.rtf
7
8      ods noproctitle;
9
10     OPTIONS LS=132 PS=59;
11
12     TITLE1 "HC-178I";
13     TITLE2 "Sample SAS Job for Example C";
14
15     LIBNAME IN "C:\Data";
NOTE: Libref IN was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\Data
16
17     *****
18     * Calculate the expenditures for medical visits associated with asthma.
19     *****;
20     PROC FORMAT;
21       VALUE EVENTYPE
22         1 = "1 MVIS"
23         2 = "2 OPAT"
24         3 = "3 EROM"
25         4 = "4 STAZ"
26         5 = "5 DVIS"
27         6 = "6 OMED"
28         7 = "7 HVIS"
29         8 = "8 PMED";
NOTE: Format EVENTYPE has been output.
29     RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):
 real time 0.07 seconds
 cpu time 0.01 seconds

```

30
31      *-----
32      * Get conditions records coded as asthma.
33      *-----;
34      DATA ASCONDS;
35          SET IN.H180 (KEEP=CONDIDX CCCODEX);
36          IF CCCODEX="128";
37      RUN;
```

NOTE: There were 123227 observations read from the data set IN.H180.
 NOTE: The data set WORK.ASCONDS has 2422 observations and 2 variables.
 NOTE: Compressing data set WORK.ASCONDS increased size by 200.00 percent.
 Compressed is 3 pages; un-compressed would require 1 pages.
 NOTE: DATA statement used (Total process time):
 real time 0.46 seconds
 cpu time 0.06 seconds

```

38
39      *-----
40      * Get the events linked to each of the asthma condition records.
41      *-----;
42      PROC SORT DATA=ASCONDS; BY CONDIIDX; RUN;
```

NOTE: There were 2422 observations read from the data set WORK.ASCONDS.
 NOTE: SAS sort was used.
 NOTE: The data set WORK.ASCONDS has 2422 observations and 2 variables.
 NOTE: Compressing data set WORK.ASCONDS increased size by 200.00 percent.
 Compressed is 3 pages; un-compressed would require 1 pages.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.00 seconds
 cpu time 0.00 seconds

```

43
44      proc print data=asconds (obs=50);
45          title3 "sample print of work.asconds - sorted by condidx";
46          title4 "COND (H180) records where cccodex=128";
47      run;
```

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
 NOTE: The PROCEDURE PRINT printed page 1.
 NOTE: PROCEDURE PRINT used (Total process time):
 real time 0.03 seconds
 cpu time 0.04 seconds

```

48
49      PROC SORT DATA=IN.H178IF1 OUT=CLNK; BY CONDIIDX; RUN;
```

NOTE: There were 377736 observations read from the data set IN.H178IF1.
 NOTE: SAS threaded sort was used.

NOTE: The data set WORK.CLNK has 377736 observations and 6 variables.
 NOTE: Compressing data set WORK.CLNK increased size by 5.52 percent.
 Compressed is 440 pages; un-compressed would require 417 pages.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.85 seconds
 cpu time 0.39 seconds

```
50
51      DATA ASCLNKS;
52          MERGE CLNK      (IN=INCLNK  KEEP=CONDIDX EVNTIDX EVENTYPE)
53              ASCONDS (IN=INASCOND KEEP=CONDIDX);
54          BY CONDIDX;
55          IF INCLNK & INASCOND;
56      RUN;
```

NOTE: There were 377736 observations read from the data set WORK.CLNK.
 NOTE: There were 2422 observations read from the data set WORK.ASCONDS.
 NOTE: The data set WORK.ASCLNKS has 7037 observations and 3 variables.
 NOTE: Compressing data set WORK.ASCLNKS increased size by 50.00 percent.
 Compressed is 6 pages; un-compressed would require 4 pages.
 NOTE: DATA statement used (Total process time):
 real time 0.10 seconds
 cpu time 0.10 seconds

```
57
58      proc report data=asclnks (obs=75)nowd headskip;
59          define condidx / 'CONDIDX' order;
60          define evntidx / 'EVNTIDX';
61          define eventype / 'EVENTYPE';
62          break after condidx / skip;
63          format eventype eventype.;
64          title3 "sample print of work.asclnks - sorted by condidx";
65          title4 "events linked to asthma condition records";
66      run;
```

NOTE: Multiple concurrent threads will be used to summarize data.
 NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
 NOTE: The PROCEDURE REPORT printed pages 2-3.
 NOTE: PROCEDURE REPORT used (Total process time):
 real time 0.01 seconds
 cpu time 0.01 seconds

```
67
68      PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;
```

NOTE: There were 7037 observations read from the data set WORK.ASCLNKS.
 NOTE: SAS sort was used.
 NOTE: The data set WORK.ASCLNKS has 7037 observations and 3 variables.
 NOTE: Compressing data set WORK.ASCLNKS increased size by 50.00 percent.
 Compressed is 6 pages; un-compressed would require 4 pages.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.00 seconds
 cpu time 0.00 seconds

```

69
70      proc print data=asclnks (obs=50);
71          format eventype eventype.;
72          title3 "sample print of work.asclnks - sorted by evntidx";
73      run;

```

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.

NOTE: The PROCEDURE PRINT printed page 4.

NOTE: PROCEDURE PRINT used (Total process time):

```

      real time          0.00 seconds
      cpu time           0.01 seconds

```

```

74
75      DATA ASCLNKS;
76          SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
77          BY EVNTIDX;
78          IF FIRST.EVNTIDX;
79      RUN;

```

NOTE: There were 7037 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 7026 observations and 2 variables.

NOTE: Compressing data set WORK.ASCLNKS increased size by 66.67 percent.

Compressed is 5 pages; un-compressed would require 3 pages.

NOTE: DATA statement used (Total process time):

```

      real time          0.00 seconds
      cpu time           0.00 seconds

```

```

80
81      proc print data=asclnks (obs=50);
82          format eventype eventype.;
83          title3 "sample print of unique evntidxs from work.asclnks";
84      run;

```

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used (Total process time):

```

      real time          0.00 seconds
      cpu time           0.00 seconds

```

```

85
86      *-----
87      * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
88      *-----
89      DATA MVIS;
90          SET IN.H178G (KEEP=EVNTIDX PERWT15F SEETLKPV OBXP15X);
91          IF PERWT15F > 0 & SEETLKPV NE 2;
92      RUN;

```

NOTE: There were 172388 observations read from the data set IN.H178G.

NOTE: The data set WORK.MVIS has 167884 observations and 4 variables.

NOTE: Compressing data set WORK.MVIS increased size by 6.80 percent.

Compressed is 110 pages; un-compressed would require 103 pages.

NOTE: DATA statement used (Total process time):


```

real time      2.24 seconds
cpu time       0.20 seconds

```

```

93
94      PROC SORT DATA=MVIS; BY EVNTIDX; RUN;

```

```

NOTE: There were 167884 observations read from the data set WORK.MVIS.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.MVIS has 167884 observations and 4 variables.
NOTE: Compressing data set WORK.MVIS increased size by 6.80 percent.
      Compressed is 110 pages; un-compressed would require 103 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time      0.09 seconds
      cpu time       0.14 seconds

```

```

95
96      *-----
97      * Identify MVIS events which were for asthma.
98      *-----;
99      DATA ASMVIS;
100         MERGE ASCLNKS (IN=INASCLNK)
101             MVIS      (IN=INMVIS);
102         BY EVNTIDX;
103         IF INASCLNK & INMVIS;
104         RUN;

```

```

NOTE: There were 7026 observations read from the data set WORK.ASCLNKS.
NOTE: There were 167884 observations read from the data set WORK.MVIS.
NOTE: The data set WORK.ASMVIS has 2048 observations and 5 variables.
NOTE: Compressing data set WORK.ASMVIS increased size by 50.00 percent.
      Compressed is 3 pages; un-compressed would require 2 pages.
NOTE: DATA statement used (Total process time):
      real time      0.05 seconds
      cpu time       0.06 seconds

```

```

105
106      proc print data=asmvis (obs=50);
107         format eventype eventype.;
108         title3 "sample print of work.asmvis";
109         title4 "unique evntidxs from work.asclnks that are non-telephone MVIS (HC-178G) events";
110      run;

```

```

NOTE: There were 50 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE PRINT printed page 6.
NOTE: PROCEDURE PRINT used (Total process time):
      real time      0.01 seconds
      cpu time       0.00 seconds

```

```

111
112      PROC MEANS DATA=ASMVIS N SUM;
113         VAR OBXP15X;
114         TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
115      RUN;

```

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 2048 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE MEANS printed page 7.
NOTE: PROCEDURE MEANS used (Total process time):
 real time 0.00 seconds
 cpu time 0.00 seconds

```
116
117     PROC MEANS DATA=ASMVIS N SUM;
118         VAR OBP15X;
119         WEIGHT PERWT15F;
120         TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
121         TITLE5 "Weighted";
122     RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 2048 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE MEANS printed page 8.
NOTE: PROCEDURE MEANS used (Total process time):
 real time 0.00 seconds
 cpu time 0.01 seconds

```
123
124     ods rtf close;
125
126
```

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
NOTE: The SAS System used:
 real time 5.03 seconds
 cpu time 1.37 seconds

HC-178I
Sample SAS Job for Example C
sample print of work.asconds - sorted by condidx
COND (H180) records where cccodex=128

| Obs | CONDIDX | CCCODEX |
|-----|--------------|---------|
| 1 | 600011010231 | 128 |
| 2 | 600011020121 | 128 |
| 3 | 600031030011 | 128 |
| 4 | 600211010061 | 128 |
| 5 | 600331010131 | 128 |
| 6 | 600341010031 | 128 |
| 7 | 600561060021 | 128 |
| 8 | 600632010052 | 128 |
| 9 | 601081010041 | 128 |
| 10 | 601081030011 | 128 |
| 11 | 601181020021 | 128 |
| 12 | 601201010011 | 128 |
| 13 | 601381010011 | 128 |
| 14 | 601381040021 | 128 |
| 15 | 601461010051 | 128 |
| 16 | 601481020051 | 128 |
| 17 | 601661020061 | 128 |
| 18 | 601711020011 | 128 |
| 19 | 601811020021 | 128 |
| 20 | 601921030011 | 128 |
| 21 | 601941020061 | 128 |
| 22 | 601941040011 | 128 |
| 23 | 602201010031 | 128 |
| 24 | 602201040011 | 128 |
| 25 | 602221020071 | 128 |
| 26 | 602321020011 | 128 |
| 27 | 602421030021 | 128 |
| 28 | 602581020032 | 128 |
| 29 | 602701010031 | 128 |
| 30 | 602851030061 | 128 |
| 31 | 602851030101 | 128 |
| 32 | 603031010021 | 128 |
| 33 | 603101010161 | 128 |
| 34 | 603121010061 | 128 |
| 35 | 603151010041 | 128 |
| 36 | 603431030011 | 128 |
| 37 | 603811010141 | 128 |
| 38 | 603881010061 | 128 |
| 39 | 603981010031 | 128 |
| 40 | 604081040011 | 128 |
| 41 | 604261020051 | 128 |
| 42 | 604301010041 | 128 |
| 43 | 604301020011 | 128 |
| 44 | 604321010041 | 128 |
| 45 | 604321020011 | 128 |
| 46 | 604321040011 | 128 |
| 47 | 604331010031 | 128 |
| 48 | 604361010041 | 128 |
| 49 | 604421010031 | 128 |
| 50 | 604661020051 | 128 |

HC-178I
Sample SAS Job for Example C
sample print of work.asclnks - sorted by condidx
events linked to asthma condition records

| CONDIDX | EVNTIDX | EVENTYPE |
|--------------|--------------|----------|
| 600011010231 | 600011012191 | 8 PMED |
| 600011020121 | 600011020521 | 1 MVIS |
| 600011020121 | 600011020811 | 8 PMED |
| 600211010061 | 600211010191 | 1 MVIS |
| 600211010061 | 600211010211 | 3 EROM |
| 600211010061 | 600211010311 | 8 PMED |
| 600211010061 | 600211010331 | 1 MVIS |
| 600211010061 | 600211010341 | 1 MVIS |
| 600211010061 | 600211010351 | 1 MVIS |
| 600211010061 | 600211010461 | 8 PMED |
| 600211010061 | 600211010471 | 8 PMED |
| 600211010061 | 600211010481 | 8 PMED |
| 600211010061 | 600211010491 | 8 PMED |
| 600211010061 | 600211010501 | 8 PMED |
| 600211010061 | 600211010511 | 8 PMED |
| 600211010061 | 600211010521 | 1 MVIS |
| 600211010061 | 600211010601 | 8 PMED |
| 600211010061 | 600211010611 | 8 PMED |
| 600211010061 | 600211010621 | 8 PMED |
| 600211010061 | 600211010631 | 8 PMED |
| 600331010131 | 600331010631 | 8 PMED |
| 600341010031 | 600341010421 | 8 PMED |
| 600341010031 | 600341010561 | 1 MVIS |
| 600341010031 | 600341010571 | 1 MVIS |
| 600341010031 | 600341010581 | 1 MVIS |
| 600341010031 | 600341010591 | 1 MVIS |
| 600341010031 | 600341010601 | 1 MVIS |
| 600341010031 | 600341010621 | 1 MVIS |
| 600341010031 | 600341010631 | 1 MVIS |
| 600341010031 | 600341010641 | 1 MVIS |
| 600341010031 | 600341010671 | 8 PMED |
| 600561060021 | 600561060101 | 1 MVIS |
| 600561060021 | 600561060111 | 1 MVIS |
| 600561060021 | 600561060121 | 1 MVIS |
| 600561060021 | 600561060131 | 8 PMED |
| 600632010052 | 600632010012 | 3 EROM |
| 601201010011 | 601201010081 | 8 PMED |
| 601201010011 | 601201010091 | 8 PMED |
| 601201010011 | 601201010111 | 1 MVIS |
| 601201010011 | 601201010121 | 1 MVIS |
| 601201010011 | 601201010131 | 1 MVIS |
| 601201010011 | 601201010251 | 1 MVIS |
| 601201010011 | 601201010261 | 1 MVIS |
| 601201010011 | 601201010271 | 1 MVIS |
| 601201010011 | 601201010281 | 1 MVIS |
| 601201010011 | 601201010351 | 8 PMED |
| 601381010011 | 601381010091 | 2 OPAT |
| 601381010011 | 601381010101 | 8 PMED |
| 601381010011 | 601381010111 | 8 PMED |
| 601381040021 | 601381040051 | 8 PMED |
| 601481020051 | 601481020461 | 8 PMED |
| 601481020051 | 601481020591 | 1 MVIS |
| 601481020051 | 601481020601 | 8 PMED |
| 601661020061 | 601661020381 | 8 PMED |
| 601661020061 | 601661020391 | 8 PMED |
| 601811020021 | 601811020491 | 8 PMED |
| 601941020061 | 601941020461 | 8 PMED |
| 601941020061 | 601941020471 | 8 PMED |
| 601941020061 | 601941020821 | 8 PMED |
| 601941020061 | 601941020831 | 8 PMED |
| 601941020061 | 601941021181 | 8 PMED |
| 601941020061 | 601941021191 | 8 PMED |
| 601941040011 | 601941040201 | 8 PMED |
| 602221020071 | 602221020192 | 1 MVIS |
| 602421030021 | 602421030031 | 3 EROM |
| 602421030021 | 602421030041 | 4 STAZ |
| 602421030021 | 602421030051 | 8 PMED |
| 602581020032 | 602581021412 | 8 PMED |
| 602851030061 | 602851030281 | 8 PMED |

| CONDIDX | EVNTIDX | EVENTYPE |
|--------------|--------------|----------|
| 602851030061 | 602851030301 | 8 PMED |
| 602851030101 | 602851030311 | 1 MVIS |
| 602851030101 | 602851030321 | 1 MVIS |
| 602851030101 | 602851030351 | 1 MVIS |
| 602851030101 | 602851030441 | 8 PMED |
| 602851030101 | 602851030451 | 8 PMED |

HC-178I
Sample SAS Job for Example C
sample print of work.asclnks - sorted by evntidx

| Obs | CONDIDX | EVNTIDX | EVENTYPE |
|-----|--------------|--------------|----------|
| 1 | 600011010231 | 600011012191 | 8 PMED |
| 2 | 600011020121 | 600011020521 | 1 MVIS |
| 3 | 600011020121 | 600011020811 | 8 PMED |
| 4 | 600211010061 | 600211010191 | 1 MVIS |
| 5 | 600211010061 | 600211010211 | 3 EROM |
| 6 | 600211010061 | 600211010311 | 8 PMED |
| 7 | 600211010061 | 600211010331 | 1 MVIS |
| 8 | 600211010061 | 600211010341 | 1 MVIS |
| 9 | 600211010061 | 600211010351 | 1 MVIS |
| 10 | 600211010061 | 600211010461 | 8 PMED |
| 11 | 600211010061 | 600211010471 | 8 PMED |
| 12 | 600211010061 | 600211010481 | 8 PMED |
| 13 | 600211010061 | 600211010491 | 8 PMED |
| 14 | 600211010061 | 600211010501 | 8 PMED |
| 15 | 600211010061 | 600211010511 | 8 PMED |
| 16 | 600211010061 | 600211010521 | 1 MVIS |
| 17 | 600211010061 | 600211010601 | 8 PMED |
| 18 | 600211010061 | 600211010611 | 8 PMED |
| 19 | 600211010061 | 600211010621 | 8 PMED |
| 20 | 600211010061 | 600211010631 | 8 PMED |
| 21 | 600331010131 | 600331010631 | 8 PMED |
| 22 | 600341010031 | 600341010421 | 8 PMED |
| 23 | 600341010031 | 600341010561 | 1 MVIS |
| 24 | 600341010031 | 600341010571 | 1 MVIS |
| 25 | 600341010031 | 600341010581 | 1 MVIS |
| 26 | 600341010031 | 600341010591 | 1 MVIS |
| 27 | 600341010031 | 600341010601 | 1 MVIS |
| 28 | 600341010031 | 600341010621 | 1 MVIS |
| 29 | 600341010031 | 600341010631 | 1 MVIS |
| 30 | 600341010031 | 600341010641 | 1 MVIS |
| 31 | 600341010031 | 600341010671 | 8 PMED |
| 32 | 600561060021 | 600561060101 | 1 MVIS |
| 33 | 600561060021 | 600561060111 | 1 MVIS |
| 34 | 600561060021 | 600561060121 | 1 MVIS |
| 35 | 600561060021 | 600561060131 | 8 PMED |
| 36 | 600632010052 | 600632010012 | 3 EROM |
| 37 | 601201010011 | 601201010081 | 8 PMED |
| 38 | 601201010011 | 601201010091 | 8 PMED |
| 39 | 601201010011 | 601201010111 | 1 MVIS |
| 40 | 601201010011 | 601201010121 | 1 MVIS |
| 41 | 601201010011 | 601201010131 | 1 MVIS |
| 42 | 601201010011 | 601201010251 | 1 MVIS |
| 43 | 601201010011 | 601201010261 | 1 MVIS |
| 44 | 601201010011 | 601201010271 | 1 MVIS |
| 45 | 601201010011 | 601201010281 | 1 MVIS |
| 46 | 601201010011 | 601201010351 | 8 PMED |
| 47 | 601381010011 | 601381010091 | 2 OPAT |
| 48 | 601381010011 | 601381010101 | 8 PMED |
| 49 | 601381010011 | 601381010111 | 8 PMED |
| 50 | 601381040021 | 601381040051 | 8 PMED |

HC-178I
Sample SAS Job for Example C
sample print of unique evntidxs from work.asclnks

| Obs | EVNTIDX | EVENTYPE |
|-----|--------------|----------|
| 1 | 600011012191 | 8 PMED |
| 2 | 600011020521 | 1 MVIS |
| 3 | 600011020811 | 8 PMED |
| 4 | 600211010191 | 1 MVIS |
| 5 | 600211010211 | 3 EROM |
| 6 | 600211010311 | 8 PMED |
| 7 | 600211010331 | 1 MVIS |
| 8 | 600211010341 | 1 MVIS |
| 9 | 600211010351 | 1 MVIS |
| 10 | 600211010461 | 8 PMED |
| 11 | 600211010471 | 8 PMED |
| 12 | 600211010481 | 8 PMED |
| 13 | 600211010491 | 8 PMED |
| 14 | 600211010501 | 8 PMED |
| 15 | 600211010511 | 8 PMED |
| 16 | 600211010521 | 1 MVIS |
| 17 | 600211010601 | 8 PMED |
| 18 | 600211010611 | 8 PMED |
| 19 | 600211010621 | 8 PMED |
| 20 | 600211010631 | 8 PMED |
| 21 | 600331010631 | 8 PMED |
| 22 | 600341010421 | 8 PMED |
| 23 | 600341010561 | 1 MVIS |
| 24 | 600341010571 | 1 MVIS |
| 25 | 600341010581 | 1 MVIS |
| 26 | 600341010591 | 1 MVIS |
| 27 | 600341010601 | 1 MVIS |
| 28 | 600341010621 | 1 MVIS |
| 29 | 600341010631 | 1 MVIS |
| 30 | 600341010641 | 1 MVIS |
| 31 | 600341010671 | 8 PMED |
| 32 | 600561060101 | 1 MVIS |
| 33 | 600561060111 | 1 MVIS |
| 34 | 600561060121 | 1 MVIS |
| 35 | 600561060131 | 8 PMED |
| 36 | 600632010012 | 3 EROM |
| 37 | 601201010081 | 8 PMED |
| 38 | 601201010091 | 8 PMED |
| 39 | 601201010111 | 1 MVIS |
| 40 | 601201010121 | 1 MVIS |
| 41 | 601201010131 | 1 MVIS |
| 42 | 601201010251 | 1 MVIS |
| 43 | 601201010261 | 1 MVIS |
| 44 | 601201010271 | 1 MVIS |
| 45 | 601201010281 | 1 MVIS |
| 46 | 601201010351 | 8 PMED |
| 47 | 601381010091 | 2 OPAT |
| 48 | 601381010101 | 8 PMED |
| 49 | 601381010111 | 8 PMED |
| 50 | 601381040051 | 8 PMED |

HC-178I
Sample SAS Job for Example C
sample print of work.asmvis
unique evtntidxs from work.asclnks that are non-telephone MVIS (HC-178G) events

| Obs | EVNTIDX | EVENTYPE | SEETLKPV | OBXP15X | PERWT15F |
|-----|--------------|----------|----------|---------|----------|
| 1 | 600011020521 | 1 MVIS | 1 | 134.29 | 18169.60 |
| 2 | 600211010191 | 1 MVIS | 1 | 77.41 | 28438.73 |
| 3 | 600211010331 | 1 MVIS | 1 | 141.03 | 28438.73 |
| 4 | 600211010341 | 1 MVIS | 1 | 75.16 | 28438.73 |
| 5 | 600211010351 | 1 MVIS | 1 | 188.39 | 28438.73 |
| 6 | 600211010521 | 1 MVIS | 1 | 45.32 | 28438.73 |
| 7 | 600341010561 | 1 MVIS | 1 | 20.00 | 11855.69 |
| 8 | 600341010571 | 1 MVIS | 1 | 20.00 | 11855.69 |
| 9 | 600341010581 | 1 MVIS | 1 | 20.00 | 11855.69 |
| 10 | 600341010591 | 1 MVIS | 1 | 18.95 | 11855.69 |
| 11 | 600341010601 | 1 MVIS | 1 | 18.95 | 11855.69 |
| 12 | 600341010621 | 1 MVIS | 1 | 20.00 | 11855.69 |
| 13 | 600341010631 | 1 MVIS | 1 | 14.76 | 11855.69 |
| 14 | 600341010641 | 1 MVIS | 1 | 87.33 | 11855.69 |
| 15 | 600561060101 | 1 MVIS | 1 | 127.87 | 3693.98 |
| 16 | 600561060111 | 1 MVIS | 1 | 127.87 | 3693.98 |
| 17 | 600561060121 | 1 MVIS | 1 | 36.31 | 3693.98 |
| 18 | 601201010111 | 1 MVIS | 1 | 105.00 | 9079.74 |
| 19 | 601201010121 | 1 MVIS | 1 | 105.00 | 9079.74 |
| 20 | 601201010131 | 1 MVIS | 1 | 105.00 | 9079.74 |
| 21 | 601201010251 | 1 MVIS | 1 | 166.90 | 9079.74 |
| 22 | 601201010261 | 1 MVIS | 1 | 166.90 | 9079.74 |
| 23 | 601201010271 | 1 MVIS | 1 | 166.90 | 9079.74 |
| 24 | 601201010281 | 1 MVIS | 1 | 166.90 | 9079.74 |
| 25 | 601481020591 | 1 MVIS | 1 | 28.51 | 18789.81 |
| 26 | 602221020192 | 1 MVIS | 1 | 701.44 | 7006.52 |
| 27 | 602851030311 | 1 MVIS | 1 | 380.77 | 23855.16 |
| 28 | 602851030321 | 1 MVIS | 1 | 0.00 | 23855.16 |
| 29 | 602851030351 | 1 MVIS | 1 | 75.00 | 23855.16 |
| 30 | 603811010661 | 1 MVIS | 1 | 536.13 | 7749.46 |
| 31 | 603811010981 | 1 MVIS | 1 | 536.13 | 7749.46 |
| 32 | 603881010701 | 1 MVIS | 1 | 67.95 | 23353.08 |
| 33 | 603881010861 | 1 MVIS | 1 | 56.76 | 23353.08 |
| 34 | 603881010891 | 1 MVIS | 1 | 157.59 | 23353.08 |
| 35 | 604301020981 | 1 MVIS | 1 | 32.62 | 2800.73 |
| 36 | 604301020991 | 1 MVIS | 1 | 32.62 | 2800.73 |
| 37 | 604301021001 | 1 MVIS | 1 | 94.18 | 2800.73 |
| 38 | 604301021011 | 1 MVIS | 1 | 94.18 | 2800.73 |
| 39 | 604301021021 | 1 MVIS | 1 | 32.62 | 2800.73 |
| 40 | 604301021071 | 1 MVIS | 1 | 6.65 | 2800.73 |
| 41 | 604301021081 | 1 MVIS | 1 | 6.65 | 2800.73 |
| 42 | 604301021091 | 1 MVIS | 1 | 55.62 | 2800.73 |
| 43 | 604301021101 | 1 MVIS | 1 | 74.00 | 2800.73 |
| 44 | 604301021121 | 1 MVIS | 1 | 6.65 | 2800.73 |
| 45 | 604301021131 | 1 MVIS | 1 | 6.65 | 2800.73 |
| 46 | 604301021421 | 1 MVIS | 1 | 147.49 | 2800.73 |
| 47 | 604301021431 | 1 MVIS | 1 | 248.00 | 2800.73 |
| 48 | 604301021441 | 1 MVIS | 1 | 147.49 | 2800.73 |
| 49 | 604301021451 | 1 MVIS | 1 | 147.49 | 2800.73 |
| 50 | 604301021521 | 1 MVIS | 1 | 74.00 | 2800.73 |

HC-178I
Sample SAS Job for Example C
Total medical visit expenditures (excluding telephone) associated with asthma
Analysis Variable: OBXP15X SUM OF OBSF15X - OBOT15X (IMPUTED)

| N | Sum |
|----------|------------|
| 2048 | 314571.61 |

HC-178I
Sample SAS Job for Example C
Total medical visit expenditures (excluding telephone) associated with asthma
Weighted
Analysis Variable: OBXP15X SUM OF OBSF15X - OBOT15X (IMPUTED)

| N | Sum |
|----------|------------|
| 2048 | 2586439015 |