

**MEPS HC-102I:
Appendix to MEPS 2006 Event Files
HC-102A - HC-102H
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Table of Contents

A. Data Use Agreement.....	A-1
B. Background.....	B-1
1.0 Household Component.....	B-1
2.0 Medical Provider Component.....	B-1
3.0 Survey Management and Data Collection.....	B-2
C. Technical and Programming Information.....	C-1
1.0 General Information.....	C-1
2.0 Data File Information.....	C-1
2.1 Codebook Format.....	C-2
2.2 Variable Naming and Source.....	C-2
2.3 Contents of File 1: Condition-Event Link File (CLNK).....	C-2
2.4 Contents of File 2: Prescribed Medicines-Event Link File (RXLK).....	C-3
2.5 2006 Condition-Event Frequency Table.....	C-4
2.6 2006 Utilization and Expenditures Summary Table.....	C-4
3.0 Merging/Linking MEPS Data Files.....	C-5
3.1 Example A: Using the CLNK and RXLK Files with the Medical Conditions File (HC-104), the Prescribed Medicines and Office-Based Medical Provider Visits Event Files (HC-102A and HC-102G).....	C-5
3.2 Example B: Using the CLNK File with the Medical Conditions File (HC-104) and the Prescribed Medicines Event File (HC-102A).....	C-6
3.3 Example C: Using the CLNK File with the Medical Conditions File (HC-104) and Office-Based Medical Provider Visits Event File (HC-102G).....	C-6
3.4 Limitations/Caveats of the CLNK File.....	C-6
3.5 Limitations/Caveats of the RXLK File.....	C-7
3.6 National Health Interview Survey.....	C-7
3.7 Pooling Annual Files.....	C-7
3.8 Using MEPS Data for Trend Analysis.....	C-7
3.9 Longitudinal Analysis.....	C-8
Attachment 1: Clinical Classification Code to ICD-9-CM Code Crosswalk.....	A1-1
Attachment 2: Sample SAS Jobs for Linking Examples.....	A2-1

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. MEPS oversamples additional policy relevant sub-groups such as Asians and low income households. 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. 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: www.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, 540 Gaither Road, Rockville, MD 20850 (301-427-1406).

C. Technical and Programming Information

1.0 General Information

This documentation describes the MEPS Public Use Release HC-102I, which is the Appendix to MEPS releases HC-102A through HC-102H. This release contains two data files, both of which are provided in ASCII (with related SAS and SPSS programming statements) and SAS versions: 1) the condition-event link file; and 2) the prescribed medicines-event link file. Also included in this release are two tables provided as PDF files: 1) the condition-event frequency table and 2) the utilization and expenditures summary 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 S. Cohen, 1997; J. Cohen, 1997; and S. Cohen, 1996. For information on the MEPS MPC design, see S. Cohen, 1998. Both 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: www.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 2006 event-level data files. File 1, the H102IF1 or CLNK file, is used for linking the MEPS condition file with the MEPS event files; File 2, the H102IF2 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 of 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 (H102IF1) or the CLNK file, contains the variables needed to link each record on the MEPS 2006 condition file, HC-104, with one or more records on the MEPS 2006 event files, HC-102A through HC-102H. 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 2006 Condition file, HC-104. 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 2006 event files, HC-102B through HC-102H. (EVNTIDX is not included on the 2006 Prescription Medicines event file, HC-102A; 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-102G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-102F
- 3 = EROM – emergency room visit event contained on MEPS release HC-102E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-102D
- 7 = HVIS – home health visit event contained on MEPS release HC-102H
- 8 = PMED – prescribed medicines event contained on MEPS release HC-102A

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

File 2 (H102IF2) or the RXLK file, contains the variables needed to link each record on the MEPS 2006 prescribed medicines file, HC-102A, with one or more records on the MEPS 2006 event files, HC-102B and HC-102D through HC-102G. 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 2006 event files, HC-102B through HC-102G. 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-102A which 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-102A 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-102G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-102F
- 3 = EROM – emergency room visit event contained on MEPS release HC-102E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-102D
- 5 = DVIS – dental visit event contained on MEPS release HC-102B

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.

2.5 2006 Condition-Event Frequency Table

Table 1 contains the MEPS 2006 Condition-Event Frequency table. This table contains unweighted and weighted counts of records on the MEPS 2006 event files, HC-102A through HC-102H, for each of the condition, procedure, and clinical classification codes contained on the MEPS 2006 Condition file, HC-104. 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-104) and the Appendix to the Event Files (HC-102I) 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 2006 MEPS PUFs, these updates will not be reflected in the 2006 MEPS data.

Note that, for conditions related to certain medical events, the ICD-9-CM codes on the Conditions file are also released in the Prescribed Medicines, Emergency Room Visits, Office-based Medical Provider Visits, Outpatient Department Visits, and Inpatient Hospital Stays Event Files. ICD-9-CM codes are collapsed into broader codes to ensure confidentiality. Because of this collapsing, it is possible for there to be duplicate ICD-9-CM condition or procedure codes linked to a single medical event when different fully-specified codes are collapsed into the same code. For more information on ICD-9-CM codes, see the HC-104 documentation.

2.6 2006 Utilization and Expenditures Summary Table

Table 2 contains the MEPS 2006 Utilization and Expenditures Summary table. This table contains statistics for all of the utilization and expenditure variables contained on the MEPS 2006 Full Year Use and Expenditure Data file, HC-105. For each of these variables, the following statistics are provided from the HC-105 file, and from the corresponding event-level file(s) HC-102A through HC-102H:

Number of persons with positive person-level weight (PERWT06F) and with value GT 0 for that variable

Weighted sum of the variable

Weighted mean of the variable

The table also includes the technical specifications used to construct each of the person-level HC-105 variables from the event-level files.

3.0 Merging/Linking MEPS Data Files

This section provides information on using each of the two HC-102I files, RXLK and CLNK, to link with the files contained in MEPS releases HC-104 and HC-102A through HC-102H. 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-102IF1) and RXLK (HC-102IF2) Files with the Medical Conditions File (HC-104), the Prescribed Medicines and Office-Based Medical Provider Visits Event Files (HC-102A and HC-102G)

This example calculates the total expenditures for prescribed medicines associated with office-based medical provider visits for asthma, using these files: the condition file (HC-104), the CLNK file (HC-102IF1), the office-based medical provider visit event file (HC-102G), the RXLK file (HC-102IF2), and the prescribed medicines event file (HC-102A). It includes the following major steps:

1. From HC-104 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-102G 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-102G 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-102A linked to those visits.
6. Using these record IDs, obtain the linked records from the HC-102A 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-102IF1) with the Medical Conditions File (HC-104) and the Prescribed Medicines Event File (HC-102A)

This example calculates the total expenditure for prescribed medicines associated with asthma, using the condition file (HC-104), the CLNK file (HC-102IF1) and the prescribed medicines event file (HC-102A). It includes the following major steps:

1. From HC-104 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-102A 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 with the Medical Conditions File (HC-104) and Office-Based Medical Provider Visits Event File (HC-102G)

This example calculates the total expenditures for office-based medical provider visits associated with asthma, using the condition file (HC-104), the CLNK file (HC-102IF1) and the office-based medical provider visits event file (HC-102G). It includes the following major steps:

1. From HC-104 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-102G 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-102G 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 condition 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 www.meps.ahrq.gov/data_stats/more_info_download_data_files.jsp.

3.7 Pooling Annual Files

To facilitate analysis of subpopulations and/or low prevalence events, it may be desirable to pool together more than one year of data to yield sample sizes large enough to generate reliable estimates. For more details on pooling MEPS data files see www.meps.ahrq.gov/data_stats/download_data_files_detail.jsp?cboPufNumber=HC-036.

Starting in Panel 9, values for DUPERSID from previous panels will occasionally be re-used. Therefore, it is necessary to use the panel variable (PANEL) in combination with DUPERSID to ensure unique person-level identifiers across panels. Creating unique records in this manner is advised when pooling MEPS data across multiple annual files that have one or more identical values for DUPERSID.

3.8 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. 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 2005-06), 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 inappropriately concluding that a change has taken place.

3.9 Longitudinal Analysis

MEPS Panel Longitudinal Weight files containing estimation variables to facilitate longitudinal analysis are available for downloading in the data section of the MEPS Web site.

Attachment 1:
Clinical Classification Code to ICD-9-CM Code Crosswalk

Appendix A - Clinical Classification Software-DIAGNOSES (January 1980 through September 2006)¹

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	03819	0382	0383	03840
03841	03842	03843	03844	03849	0388	0389	0545	7907			

3 Bacterial infection; unspecified site

0200	0208	0209	0218	0219	0228	0229	0230	0231	0232	0233	0238
0239	024	025	0260	0269	0270	0271	0272	0278	0279	0300	0301
0302	0303	0308	0309	0312	0318	0319	03289	0329	0330	0331	0338

¹ Revised 11/18/05

0339	0341	0363	03681	03689	0369	037	0392	0393	0394	0398	0399
0400	0401	0402	0403	04081	04082	04089	0410	04100	04101	04102	04103
04104	04105	04109	0411	04110	04111	04119	0412	0413	0414	0415	0416
0417	0418	04181	04182	04183	04184	04185	04186	04189	0419	390	3929
7953	79531	79539	V090	V091	V092	V093	V094	V0950	V0951	V096	V0970
V0971	V0980	V0981	V0990	V0991							

4 Mycoses

1100	1101	1102	1103	1104	1105	1106	1108	1109	1110	1111	1112
1113	1118	1119	1120	1121	1122	1123	1125	11282	11284	11285	11289
1129	1141	1143	1149	11500	11509	11510	11519	11590	11599	1160	1161
1162	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	118

5 HIV infection

042	0420	0421	0422	0429	0430	0431	0432	0433	0439	0440	0449
07953	27910	27919	79571	7958	V08						

6 Hepatitis

0700	0701	0702	07020	07021	07022	07023	0703	07030	07031	07032	07033
0704	07041	07042	07043	07044	07049	0705	07051	07052	07053	07054	07059
0706	07070	07071	0709	57140	57141	57149	5731	5732	5733		

7 Viral infection

0500	0501	0502	0509	0510	0511	0512	0519	0527	0528	0529	05310
05311	05312	05313	05319	05371	05379	0538	0539	0540	05410	05411	05412
05413	05419	0542	0546	05471	05473	05479	0548	0549	05579	0558	0559
05600	05609	05679	0568	0569	0570	0578	0579	0600	0601	0609	061
0650	0651	0652	0653	0654	0658	0659	0660	0661	0663	0664	06640
06641	06642	06649	0668	0669	071	0720	0723	07271	07272	07279	0728
0729	0737	0738	0739	0740	0741	0743	0748	075	0780	0781	07810
07811	07819	0782	0783	0784	0785	0786	0787	07881	07882	07888	07889
0790	0791	0792	0793	0794	07950	07951	07952	07959	0796	0798	07981
07982	07988	07989	0799	07998	07999	7908					

8 Other infections; including parasitic

080	0810	0811	0812	0819	0820	0821	0822	0823	08240	08241	08249
0828	0829	0831	0832	0838	0839	0840	0841	0842	0843	0844	0845
0846	0847	0848	0849	0850	0851	0852	0853	0854	0855	0859	0860
0861	0862	0863	0864	0865	0869	0870	0871	0879	0880	0888	08881
08882	08889	0889	1000	10089	1009	101	1020	1021	1022	1023	1024
1025	1026	1027	1028	1029	1030	1031	1032	1033	1039	1040	1048
1049	1200	1201	1202	1203	1208	1209	1210	1211	1212	1213	1214
1215	1216	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227
1228	1229	1230	1231	1232	1233	1234	1235	1236	1238	1239	124
1250	1251	1252	1253	1254	1255	1256	1257	1259	1260	1261	1262
1263	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278
1279	1280	1281	1288	1289	129	1305	1307	1308	1309	13100	13101
13102	13103	13109	1318	1319	1320	1321	1322	1323	1329	1330	1338
1339	1340	1341	1342	1348	1349	135	1360	1361	1362	1364	1365
1368	1369	1398	V120	V1200	V1203	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							

10 Immunizations and screening for infectious disease

7955	7956	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	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	V730	V731	V732
V733	V734	V735	V736	V738	V7388	V7389	V739	V7398	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		
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13 Cancer of stomach

1510	1511	1512	1513	1514	1515	1516	1518	1519	2302	V1004	
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14 Cancer of colon

1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1590	2303
V1005											

15 Cancer of rectum and anus

1540	1541	1542	1543	1548	2304	2305	2306	V1006			
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16	Cancer of liver and intrahepatic bile duct										
1550	1551	1552	2308	V1007							
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	1580
1588	1589	1591	1598	1599	2307	2309	V1000	V1009			
19	Cancer of bronchus; lung										
1622	1623	1624	1625	1628	1629	2312	V1011				
20	Cancer; other respiratory and intrathoracic										
1620	1630	1631	1638	1639	1650	1658	1659	2311	2318	2319	V1012
V1020	V1022										
21	Cancer of bone and connective tissue										
1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710	1712
1713	1714	1715	1716	1717	1718	1719					
22	Melanomas of skin										
1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	V1082	
23	Other non-epithelial cancer of skin										
1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	2320	2321
2322	2323	2324	2325	2326	2327	2328	2329	V1083			
24	Cancer of breast										
1740	1741	1742	1743	1744	1745	1746	1748	1749	1750	1759	2330
V103											
25	Cancer of uterus										
179	1820	1821	1828	2332	V1042						
26	Cancer of cervix										
1800	1801	1808	1809	2331	7950	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 1844
1848 1849 2333 V1040 V1044

29 Cancer of prostate

185 2334 V1046

30 Cancer of testis

1860 1869 V1047

31 Cancer of other male genital organs

1871 1872 1873 1874 1875 1876 1877 1878 1879 2335 2336 V1045
V1048 V1049

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 V1052

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 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

2000	2001	2002	2003	2004	2005	2006	2007	2008	2010	2011	2012
20013	20014	20015	20016	20017	20018	20020	20021	20022	20023	20024	20025
20026	20027	20028	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	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
2040	20400	20401	2041	20410	20411	2042	20420	20421	2048	20480	20481
2049	20490	20491	2050	20500	20501	2051	20510	20511	2052	20520	20521
2053	20530	20531	2058	20580	20581	2059	20590	20591	2060	20600	20601
2061	20610	20611	2062	20620	20621	2068	20680	20681	2069	20690	20691
2070	20700	20701	2071	20710	20711	2072	20720	20721	2078	20780	20781
2080	20800	20801	2081	20810	20811	2082	20820	20821	2088	20880	20881
2089	20890	20891	V1060	V1061	V1062	V1063	V1069				

40 Multiple myeloma

2030	20300	20301	2038	20380	20381						
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41 Cancer; other and unspecified primary

1640	1641	1642	1643	1648	1649	1760	1761	1762	1763	1764	1765
1768	1769	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
1940	1941	1943	1944	1945	1946	1948	1949	1951	1952	1953	1954
1955	1958	20230	20231	20232	20233	20234	20235	20236	20237	20238	20250
20251	20252	20253	20254	20255	20256	20257	20258	20260	20261	20262	20263
20264	20265	20266	20267	20268	2340	2348	2349	7951	V1029	V1081	V1084
V1088	V1089	V109	V711								

42 Secondary malignancies

1960	1961	1962	1963	1965	1966	1968	1969	1970	1971	1972	1973
1974	1975	1976	1977	1978	1980	1981	1982	1983	1984	1985	1986
1987	19881	19882	19889								

43 Malignant neoplasm without specification of site

1990	1991										
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44 Neoplasms of unspecified nature or uncertain behavior

2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361
2362	2363	2364	2365	2366	2367	23690	23691	23699	2370	2371	2372
2373	2374	2375	2376	2377	23770	23771	23772	2379	2380	2381	2382
2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394
2395	2396	2397	2398	2399							

45 Maintenance chemotherapy; radiotherapy

V580	V581	V5811	V5812	V661	V662	V671	V672				
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46 Benign neoplasm of uterus

2180 2181 2182 2189 2190 2191 2198 2199

47 Other and unspecified benign neoplasm

2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111
2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123
2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135
2136 2137 2138 2139 2140 2141 2142 2143 2144 2148 2149 2150
2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163
2164 2165 2166 2167 2168 2169 217 220 2210 2211 2212 2218
2219 2220 2221 2222 2223 2224 2228 2229 2230 2231 2232 2233
22381 22389 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248
2249 2250 2251 2252 2253 2254 2258 2259 226 2270 2271 2273
2274 2275 2276 2278 2279 22800 22801 22802 22803 22804 22809 2281
2290 2298 2299 V1272

48 Thyroid disorders

2400 2409 2410 2411 2419 24200 24201 24210 24211 24220 24221 24230
24231 24240 24241 24280 24281 24290 24291 243 2440 2441 2442 2443
2448 2449 2450 2451 2452 2453 2454 2458 2459 2460 2461 2462
2463 2468 2469 7945

49 Diabetes mellitus without complication

25000 25001 7902 79021 79022 79029 7915 7916 V4585 V5391 V6546

50 Diabetes mellitus with complications

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 2555 2556 2558 2559 2560 2561 2562 2563
2564 2568 2569 2570 2571 2572 2578 2579 2580 2581 2588 2589
2590 2591 2592 2593 2594 2595 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	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	2767	2768
2769											

56 Cystic fibrosis

27700	27701	27702	27703	27709							
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57 Immunity disorders

27900	27901	27902	27903	27904	27905	27906	27909	27911	27912	27913	2792
2793	2794	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	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
2781	2782	2783	2784	2788	7831	7832	78321	78322	7833	7834	78340
78341	78342	78343	7835	7837	7839	7947	7957	79579	V122	V850	V8521
V8522	V8523	V8524	V8525	V8530	V8531	V8532	V8533	V8534	V8535	V8536	V8537
V8538	V8539	V854									

59 Deficiency and other anemia

2800	2801	2808	2809	2810	2811	2812	2813	2814	2818	2819	2820
2821	2822	2823	2824	28249	2827	2828	2829	2830	2831	28310	28311
28319	2832	2839	2840	2848	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		
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62 Coagulation and hemorrhagic disorders

2860	2861	2862	2863	2864	2865	2866	2867	2869	2870	2871	2872
2873	28730	28731	28732	28733	28739	2874	2875	2878	2879	28981	28982
7827											

63 Diseases of white blood cells

2880 2881 2882 2883 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 0620 0621 0622 0623
0624 0625 0628 0629 0630 0631 0632 0638 0639 064 0662 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 0463 0468 0469 048 138 3240
3241 3249 326 V1202

79 Parkinson`s disease

3320

80 Multiple sclerosis

340

81 Other hereditary and degenerative nervous system conditions

3300 3301 3302 3303 3308 3309 3313 3314 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 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

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

3460 34600 34601 3461 34610 34611 3462 34620 34621 3468 34680 34681
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 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 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 36581 36582 36583 36589 3659

89 Blindness and vision defects

3670 3671 36720 36721 36722 36731 36732 3674 36751 36752 36753 36781
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	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	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	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	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	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	3885	38860	38861	38869	38870	38871
38872	3888	3889	38900	38901	38902	38903	38904	38908	38910	38911	38912
38914	38918	3892	3897	3898	3899	V412	V413	V532	V721		

95 Other nervous system disorders

325	3321	33720	33721	33722	33729	3410	3411	3418	3419	34461	347
34700	34701	34710	34711	3480	3482	3483	34830	34831	34839	3484	3485
3488	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	3575	3576	3577	3578	35781	35782	35789	3579
3580	35800	35801	3581	3582	3588	3589	3590	3591	3592	3593	3594
3595	3596	3598	35981	35989	3599	7810	7811	7812	7813	7817	7818
7820	7843	7845	78460	78461	78469	7920	7930	79400	79401	79402	79409
79410	79411	79412	79413	79414	79415	79416	79417	79419	7961	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	4251	4252
4253	4254	4255	4257	4258	4259	4290					

98 Essential hypertension

4011	4019
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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
41403 41406 4148 4149 V4581 V4582

102 Nonspecific chest pain

78650 78651 78659

103 Pulmonary heart disease

4150 4151 41519 4160 4161 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 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 42840
42841 42842 42843 4289

109 Acute cerebrovascular disease

430 431 4320 4321 4329 43301 43311 43321 43331 43381 43391 4340
43400 43401 4341 43410 43411 4349 43490 43491 436

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	43819	43820	43821	43822	43830	43831	43832
43840	43841	43842	43850	43851	43852	43853	4386	4387	43881	43882	43883
43884	43885	43889	4389								
114	Peripheral and visceral atherosclerosis										
4400	4401	4402	44020	44021	44022	44023	44029	4408	4409	4439	5570
5571	5579										
115	Aortic; peripheral; and visceral artery aneurysms										
4410	44100	44101	44102	44103	4411	4412	4413	4414	4415	4416	4417
4419	4420	4421	4422	4423	44281	44282	44283	44284	44289	4429	44321
44322	44323	44324	44329								
116	Aortic and peripheral arterial embolism or thrombosis										
4440	4441	44421	44422	44481	44489	4449	44501	44502	44581	44589	
117	Other circulatory disease										
42682	4430	4431	44381	44382	44389	4460	4461	4462	44620	44621	44629
4463	4464	4465	4466	4467	4470	4471	4472	4473	4474	4475	4476
4478	4479	4480	4481	4489	4580	4581	4588	4589	4590	45989	4599
7859	79430	79431	79439	7962	V125	V1250	V1259	V151	V421	V432	V4321
V4322	V434	V717									
118	Phlebitis; thrombophlebitis and thromboembolism										
4510	45111	45119	4512	45181	45182	45183	45184	45189	4519	452	4530
4531	4532	4533	45340	45341	45342	4538	4539	V1251	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	0830
1124	1140	1144	1145	11505	11515	11595	1304	1363	4800	4801	4802
4803	4808	4809	481	4820	4821	4822	4823	48230	48231	48232	48239
4824	48240	48241	48249	4828	48281	48282	48283	48284	48289	4829	483
4830	4831	4838	4841	4843	4845	4846	4847	4848	485	486	5130
5171											

123 Influenza

4870	4871	4878
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124 Acute and chronic tonsillitis

463	4740	47400	47401	47402	47410	47411	47412	4742	4748	4749	475
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125 Acute bronchitis

4660	4661	46611	46619
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126 Other upper respiratory infections

0320	0321	0322	0323	0340	460	4610	4611	4612	4613	4618	4619
462	4640	46400	46401	46410	46411	46420	46421	46430	46431	4644	46450
46451	4650	4658	4659	4730	4731	4732	4733	4738	4739		

127 Chronic obstructive pulmonary disease and bronchiectasis

490	4910	4911	4912	49120	49121	49122	4918	4919	4920	4928	494
4940	4941	496									

128 Asthma

49300	49301	49302	49310	49311	49312	49320	49321	49322	49381	49382	49390
49391	49392										

129 Aspiration pneumonitis; food/vomitus

5070

130 Pleurisy; pneumothorax; pulmonary collapse

5100	5109	5110	5111	5118	5119	5120	5128	5180	5181	5182
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131 Respiratory failure; insufficiency; arrest (adult)

5173	5185	51881	51882	51883	51884	7991	V461	V4611	V4612	V4613	V4614
V462											

132 Lung disease due to external agents

4950	4951	4952	4953	4954	4955	4956	4957	4958	4959	500	501
502	503	504	505	5060	5061	5062	5063	5064	5069	5071	5078
5080	5081	5088	5089								

133 Other lower respiratory disease

5131	514	515	5160	5161	5162	5163	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	7931
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	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	5258	5259	5260	5261	5262	5263	5264	5265	52681	52689
5269	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							

40 Gastritis and duodenitis

5350	53500	53501	5351	53510	53511	5352	53520	53521	5353	53530	53531
5354	53540	53541	5355	53550	53551	5356	53560	53561			

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					
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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	56039	56081	56089	5609			
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146 Diverticulosis and diverticulitis

56200	56201	56202	56203	56210	56211	56212	56213				
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147 Anal and rectal conditions

5646	5650	5651	566	5690	5691	5692	56941	56942	56949		
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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							

150 Liver disease; alcohol-related

5710 5711 5712 5713

151 Other liver diseases570 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 hemorrhage4560 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**

5589

155 Other gastrointestinal disorders5581 5582 5640 56400 56401 56402 56409 5641 5645 5647 5648 56481
56489 5649 5680 56881 56882 56889 5689 56981 56982 56983 56984 56985
56986 56989 5699 5790 5791 5792 5798 5799 7871 7872 7873 7874
7875 7876 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 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 renal failure585 5853 5854 5855 5856 5859 7925 V420 V451 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

5851 5852 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 5968 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 6119 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

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 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 6241 6242 6243 6244 6245 6246 6248 6249 6250 6251
6252 6254 6255 6256 6258 6259 6267 6290 6291 62920 62921 62922
62923 6298 6299 79500 79501 79502 79503 79504 79505 79508 79509 V132
V1321 V1329 V557 V723

176 Contraceptive and procreative management

V157 V2501 V2502 V2503 V2509 V251 V252 V253 V2540 V2541 V2542 V2543
V2549 V255 V258 V259 V260 V261 V262 V2621 V2622 V2629 V263 V2631
V2632 V2633 V264 V2651 V2652 V268 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

630 631 632 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

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 65233
65240 65241 65243 65250 65251 65253 65260 65261 65263 65270 65271 65273
65280 65281 65283 65290 65291 65293 66000 66001 66003

188 Fetopelvic disproportion; obstruction

65300	65301	65303	65310	65311	65313	65320	65321	65323	65330	65331	65333
65340	65341	65343	65350	65351	65353	65360	65361	65363	65370	65371	65373
65380	65381	65383	65390	65391	65393	66010	66011	66013	66020	66021	66023
66030	66031	66033	66040	66041	66043	66050	66051	66053	66060	66061	66063
66070	66071	66073	66080	66081	66083	66090	66091	66093			

189 Previous C-section

65420	65421	65423
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190 Fetal distress and abnormal forces of labor

65630	65631	65633	66100	66101	66103	66110	66111	66113	66120	66121	66123
66130	66131	66133	66140	66141	66143	66190	66191	66193	66200	66201	66203
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	65823
65830	65831	65833	65840	65841	65843	65880	65881	65883	65890	65891	65893
77984	7923										

192 Umbilical cord complication

66300	66301	66303	66310	66311	66313	66320	66321	66323	66330	66331	66333
66340	66341	66343	66350	66351	66353	66360	66361	66363	66380	66381	66383
66390	66391	66393									

193 OB-related trauma to perineum and vulva

66400	66401	66404	66410	66411	66414	66420	66421	66424	66430	66431	66434
66440	66441	66444	66450	66451	66454	66480	66481	66484	66490	66491	66494

194 Forceps delivery

66950	66951
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195 Other complications of birth; puerperium affecting management of mother

65103	65113	65123	65130	65131	65133	65140	65141	65143	65150	65151	65153
65160	65161	65163	65183	65193	65400	65401	65402	65403	65404	65410	65411
65412	65413	65414	65430	65431	65432	65433	65434	65440	65441	65442	65443
65444	65450	65451	65452	65453	65454	65460	65461	65462	65463	65464	65470
65471	65472	65473	65474	65480	65481	65482	65483	65484	65490	65491	65492
65493	65494	65500	65501	65503	65510	65511	65513	65520	65521	65523	65530
65531	65533	65540	65541	65543	65550	65551	65553	65560	65561	65563	65570
65571	65573	65580	65581	65583	65590	65591	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	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	V230
V231	V232	V233	V234	V2341	V2349	V235	V237	V238	V2381	V2382	V2383
V2384	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	V271	V272	V273
V274	V275	V276	V277	V279	V724	V7242					

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	6952	6953	6954	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	70712	70713	70714	70715	70719	7078	7079				

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	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
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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	71860	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
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207 Pathological fracture

7331	73310	73311	73312	73313	73314	73315	73316	73319	73393	73394	73395
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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
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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	7819	78191	78192	78194	78199	7937	V135
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
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

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 7473 74740 74741 74742 74749 7475
7476 74760 74761 74762 74763 74764 74769 74781 74782 74783 74789 7479

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

215 Genitourinary congenital anomalies

7520 75210 75211 75219 7522 7523 75240 75241 75242 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

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

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 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
V1369

218 Liveborn

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	76520	76521	76522	76523	76524	76525
76526	76527	76528	76529	V2130	V2131	V2132	V2133	V2134	V2135		

220 Intrauterine hypoxia and birth asphyxia

7680	7681	7682	7683	7684	7685	7686	7689
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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
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224 Other perinatal conditions

7600	7601	7602	7603	7604	7605	7606	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	77181	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	7776	7778	7779	7780	7781	7782	7783
7784	7785	7786	7787	7788	7789	7790	7791	7792	7793	7794	7795
7796	7797	7798	77981	77982	77983	77989	7799	78091	78092	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

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	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	80849	80851
80852	80853	80859	8088	8089	8090	8091	8280	8281	8290	8291	9051
9055	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						

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

41402	41404	41405	41407	44030	44031	44032	56960	56961	56969	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	99689	99690
99691	99692	99693	99694	99695	99696	99699					

238 Complications of surgical procedures or medical care

27783	3490	3491	41511	4294	4582	45821	45829	5121	5190	51900	51901
51902	51909	53086	53087	53640	53641	53642	53649	5642	5643	5644	5696
56962	5793	9093	9954	99586	9970	99700	99701	99702	99709	9971	9972
9973	9974	9975	99760	99761	99762	99769	99771	99772	99779	9979	99791
99799	9980	9981	99811	99812	99813	9982	9983	99831	99832	9984	9985
99851	99859	9986	9987	9988	99881	99882	99883	99889	9989	9990	9991
9992	9993	9994	9995	9996	9997	9998	9999				

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	9691	9692	9693	9694	9695	9696	9697	9698	9699		
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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	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	9800	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	9951	9955	99550	99551	99552
99553	99554	99555	99559	99580	99581	99582	99583	99584	99585	99589	99590
99591	99592	99593	99594	V155	V156	V1588	V713	V714	V715	V716	

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 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 V600 V601 V602 V603 V604 V605 V606 V608 V609

V610	V611	V6110	V6111	V6112	V6120	V6121	V6122	V6129	V613	V6141	V6149
V616	V617	V618	V619	V620	V621	V622	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	V700	V703	V704	V705	V706	V707
V708	V709	V718	V719	V7231	V7232	V725	V726	V728	V7281	V7282	V7283
V7284	V7285	V7286	V729								

257 Other aftercare

V51	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)

V280	V281	V282	V283	V284	V285	V288	V289	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	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	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	7929	7932	7939	7949	7954	7963	7964
7965	7966	7969	7980	7981	7982	7989	7992	7993	7998	79981	79989
7999	V070	V072	V073	V0731	V0739	V078	V079	V1053	V131	V138	V139
V152	V153	V1581	V1584	V1585	V1586	V1587	V1589	V159	V160	V161	V162
V163	V164	V1640	V1641	V1642	V1643	V1649	V165	V1651	V1659	V166	V167
V168	V169	V170	V171	V172	V173	V174	V175	V176	V177	V178	V1781
V1789	V180	V181	V182	V183	V184	V185	V186	V1861	V1869	V187	V188
V189	V190	V191	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	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	V615	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	V851								

650 Adjustment disorder

3090 3091 30922 30923 30924 30928 30929 3093 3094 30982 30983 30989
3099

651 Anxiety disorder

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 disorder

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 2948 2949 3100 3102
3108 3109 3310 3311 33111 33119 3312 33182 797

654 Developmental disorders

Communication disorders

3070 3079 31531 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 Substance-related disorders

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

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

661 Miscellaneous mental 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 V403 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

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	V118	V119	V154	V1541	V1542	V1549	V1582	V663	V701
V702	V7101	V7102	V7109	V790	V792	V793	V798	V799				

Substance-related disorder codes

3051	30510	30511	30512	30513	3575	4255	5353	5710	5711	5712	5713
76071	7903	V113	V791								

2601 E Codes: Cut/pierce

E9200	E9201	E9202	E9203	E9204	E9205	E9208	E9209	E956	E966	E974	E986
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2602 E Codes: Drowning/submersion

E8300	E8301	E8302	E8303	E8304	E8305	E8306	E8308	E8309	E8320	E8321	E8322
E8323	E8324	E8325	E8326	E8328	E8329	E9100	E9101	E9102	E9103	E9104	E9108
E9109	E954	E964	E984								

2603 E Codes: Fall

E8800	E8801	E8809	E8810	E8811	E882	E8830	E8831	E8832	E8839	E8840	E8841
E8842	E8843	E8844	E8845	E8846	E8849	E885	E8850	E8851	E8852	E8853	E8854
E8859	E8860	E8869	E888	E8880	E8881	E8888	E8889	E9570	E9571	E9572	E9579
E9681	E9870	E9871	E9872	E9879							

2604 E Codes: Fire/burn

E8900	E8901	E8902	E8903	E8908	E8909	E8910	E8911	E8912	E8913	E8918	E8919
E892	E8930	E8931	E8932	E8938	E8939	E894	E895	E896	E897	E8980	E8981
E899	E9240	E9241	E9242	E9248	E9249	E9581	E9582	E9587	E961	E9680	E9683
E9793	E9881	E9882	E9887								

2605 E Codes: Firearm

E9220	E9221	E9222	E9223	E9228	E9229	E9550	E9551	E9552	E9553	E9554	E9650
E9651	E9652	E9653	E9654	E970	E9794	E9850	E9851	E9852	E9853	E9854	

2606 E Codes: Machinery

E9190	E9191	E9192	E9193	E9194	E9195	E9196	E9197	E9198	E9199		
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2607 E Codes: Motor vehicle traffic (MVT)

E8100	E8101	E8102	E8103	E8104	E8105	E8106	E8107	E8108	E8109	E8110	E8111
E8112	E8113	E8114	E8115	E8116	E8117	E8118	E8119	E8120	E8121	E8122	E8123

E8124	E8125	E8126	E8127	E8128	E8129	E8130	E8131	E8132	E8133	E8134	E8135
E8136	E8137	E8138	E8139	E8140	E8141	E8142	E8143	E8144	E8145	E8146	E8147
E8148	E8149	E8150	E8151	E8152	E8153	E8154	E8155	E8156	E8157	E8158	E8159
E8160	E8161	E8162	E8163	E8164	E8165	E8166	E8167	E8168	E8169	E8170	E8171
E8172	E8173	E8174	E8175	E8176	E8177	E8178	E8179	E8180	E8181	E8182	E8183
E8184	E8185	E8186	E8187	E8188	E8189	E8190	E8191	E8192	E8193	E8194	E8195
E8196	E8197	E8198	E8199	E9585	E9685	E9885					

2608 E Codes: Pedal cyclist; not MVT

E8003	E8013	E8023	E8033	E8043	E8053	E8063	E8073	E8206	E8216	E8226	E8236
E8246	E8256	E8261	E8269								

2609 E Codes: Pedestrian; not MVT

E8002	E8012	E8022	E8032	E8042	E8052	E8062	E8072	E8207	E8217	E8227	E8237
E8247	E8257	E8260	E8270	E8280	E8290						

2610 E Codes: Transport; not MVT

E8000	E8001	E8008	E8009	E8010	E8011	E8018	E8019	E8020	E8021	E8028	E8029
E8030	E8031	E8038	E8039	E8040	E8041	E8048	E8049	E8050	E8051	E8058	E8059
E8060	E8061	E8068	E8069	E8070	E8071	E8078	E8079	E8200	E8201	E8202	E8203
E8204	E8205	E8208	E8209	E8210	E8211	E8212	E8213	E8214	E8215	E8218	E8219
E8220	E8221	E8222	E8223	E8224	E8225	E8228	E8229	E8230	E8231	E8232	E8233
E8234	E8235	E8238	E8239	E8240	E8241	E8242	E8243	E8244	E8245	E8248	E8249
E8250	E8251	E8252	E8253	E8254	E8255	E8258	E8259	E8262	E8263	E8264	E8268
E8272	E8273	E8274	E8278	E8279	E8282	E8284	E8288	E8289	E8294	E8298	E8299
E8310	E8311	E8312	E8313	E8314	E8315	E8316	E8318	E8319	E8330	E8331	E8332
E8333	E8334	E8335	E8336	E8338	E8339	E8340	E8341	E8342	E8343	E8344	E8345
E8346	E8348	E8349	E8350	E8351	E8352	E8353	E8354	E8355	E8356	E8358	E8359
E8360	E8361	E8362	E8363	E8364	E8365	E8366	E8368	E8369	E8370	E8371	E8372
E8373	E8374	E8375	E8376	E8378	E8379	E8380	E8381	E8382	E8383	E8384	E8385
E8386	E8388	E8389	E8400	E8401	E8402	E8403	E8404	E8405	E8406	E8407	E8408
E8409	E8410	E8411	E8412	E8413	E8414	E8415	E8416	E8417	E8418	E8419	E8426
E8427	E8428	E8429	E8430	E8431	E8432	E8433	E8434	E8435	E8436	E8437	E8438
E8439	E8440	E8441	E8442	E8443	E8444	E8445	E8446	E8447	E8448	E8449	E8450
E8458	E8459	E9586	E9886								

2611 E Codes: Natural/environment

E9000	E9001	E9009	E9010	E9011	E9018	E9019	E9020	E9021	E9022	E9028	E9029
E903	E9040	E9041	E9042	E9043	E9049	E9050	E9051	E9052	E9053	E9054	E9055
E9056	E9057	E9058	E9059	E9060	E9061	E9062	E9063	E9064	E9065	E9068	E9069
E907	E908	E9080	E9081	E9082	E9083	E9084	E9088	E9089	E909	E9090	E9091
E9092	E9093	E9094	E9098	E9099	E9280	E9281	E9282	E9583	E9883		

2612 E Codes: Overexertion

E927

2613 E Codes: Poisoning

E8500	E8501	E8502	E8503	E8504	E8505	E8506	E8507	E8508	E8509	E851	E8520
E8521	E8522	E8523	E8524	E8525	E8528	E8529	E8530	E8531	E8532	E8538	E8539
E8540	E8541	E8542	E8543	E8548	E8550	E8551	E8552	E8553	E8554	E8555	E8556

E8558	E8559	E856	E857	E8580	E8581	E8582	E8583	E8584	E8585	E8586	E8587
E8588	E8589	E8600	E8601	E8602	E8603	E8604	E8608	E8609	E8610	E8611	E8612
E8613	E8614	E8615	E8616	E8619	E8620	E8621	E8622	E8623	E8624	E8629	E8630
E8631	E8632	E8633	E8634	E8635	E8636	E8637	E8638	E8639	E8640	E8641	E8642
E8643	E8644	E8650	E8651	E8652	E8653	E8654	E8655	E8658	E8659	E8660	E8661
E8662	E8663	E8664	E8665	E8666	E8667	E8668	E8669	E867	E8680	E8681	E8682
E8683	E8688	E8689	E8690	E8691	E8692	E8693	E8694	E8698	E8699	E9500	E9501
E9502	E9503	E9504	E9505	E9506	E9507	E9508	E9509	E9510	E9511	E9518	E9520
E9521	E9528	E9529	E9620	E9621	E9622	E9629	E972	E9800	E9801	E9802	E9803
E9804	E9805	E9806	E9807	E9808	E9809	E9810	E9811	E9818	E9820	E9821	E9828
E9829											

2614 E Codes: Struck by; against

E916	E9170	E9171	E9172	E9173	E9174	E9175	E9176	E9177	E9178	E9179	E9600
E9682	E973	E975									

2615 E Codes: Suffocation

E911	E912	E9130	E9131	E9132	E9133	E9138	E9139	E9284	E9285	E9530	E9531
E9538	E9539	E963	E9830	E9831	E9838	E9839					

2616 E Codes: Adverse effects of medical care

E8700	E8701	E8702	E8703	E8704	E8705	E8706	E8707	E8708	E8709	E8710	E8711
E8712	E8713	E8714	E8715	E8716	E8717	E8718	E8719	E8720	E8721	E8722	E8723
E8724	E8725	E8726	E8728	E8729	E8730	E8731	E8732	E8733	E8734	E8735	E8736
E8738	E8739	E8740	E8741	E8742	E8743	E8744	E8745	E8748	E8749	E8750	E8751
E8752	E8758	E8759	E8760	E8761	E8762	E8763	E8764	E8765	E8768	E8769	E8780
E8781	E8782	E8783	E8784	E8785	E8786	E8788	E8789	E8790	E8791	E8792	E8793
E8794	E8795	E8796	E8797	E8798	E8799						

2617 E Codes: Adverse effects of medical drugs

E9300	E9301	E9302	E9303	E9304	E9305	E9306	E9307	E9308	E9309	E9310	E9311
E9312	E9313	E9314	E9315	E9316	E9317	E9318	E9319	E9320	E9321	E9322	E9323
E9324	E9325	E9326	E9327	E9328	E9329	E9330	E9331	E9332	E9333	E9334	E9335
E9338	E9339	E9340	E9341	E9342	E9343	E9344	E9345	E9346	E9347	E9348	E9349
E9350	E9351	E9352	E9353	E9354	E9355	E9356	E9357	E9358	E9359	E9360	E9361
E9362	E9363	E9364	E9370	E9371	E9372	E9373	E9374	E9375	E9376	E9378	E9379
E9380	E9381	E9382	E9383	E9384	E9385	E9386	E9387	E9389	E9390	E9391	E9392
E9393	E9394	E9395	E9396	E9397	E9398	E9399	E9400	E9401	E9408	E9409	E9410
E9411	E9412	E9413	E9419	E9420	E9421	E9422	E9423	E9424	E9425	E9426	E9427
E9428	E9429	E9430	E9431	E9432	E9433	E9434	E9435	E9436	E9438	E9439	E9440
E9441	E9442	E9443	E9444	E9445	E9446	E9447	E9450	E9451	E9452	E9453	E9454
E9455	E9456	E9457	E9458	E9460	E9461	E9462	E9463	E9464	E9465	E9466	E9467
E9468	E9469	E9470	E9471	E9472	E9473	E9474	E9478	E9479	E9480	E9481	E9482
E9483	E9484	E9485	E9486	E9488	E9489	E9490	E9491	E9492	E9493	E9494	E9495
E9496	E9497	E9499									

2618 E Codes: Other specified and classifiable

E846	E847	E848	E914	E915	E918	E9210	E9211	E9218	E9219	E9224	E9225
E9230	E9231	E9232	E9238	E9239	E9250	E9251	E9252	E9258	E9259	E9260	E9261
E9262	E9263	E9264	E9265	E9268	E9269	E9283	E9290	E9291	E9292	E9293	E9294
E9295	E9555	E9556	E9557	E9559	E9580	E9584	E9601	E9655	E9656	E9657	E9658

E9659 E9670 E9671 E9672 E9673 E9674 E9675 E9676 E9677 E9678 E9679 E9684
E9686 E9687 E971 E978 E9790 E9791 E9792 E9795 E9796 E9797 E9798 E9799
E9855 E9856 E9857 E9880 E9884 E9900 E9909 E9910 E9911 E9912 E9913 E9919
E992 E993 E994 E996 E9970 E9971 E9972 E9990 E9991

2619 E Codes: Other specified; NEC

E9288 E9298 E9588 E959 E9688 E969 E977 E9888 E989 E995 E9978 E998
E999

2620 E Codes: Unspecified

E887 E9289 E9299 E9589 E9689 E976 E9889 E9979

2621 E Codes: Place of occurrence

E8490 E8491 E8492 E8493 E8494 E8495 E8496 E8497 E8498 E8499

**Attachment 2:
Sample SAS Jobs for Linking Example**

NOTE: Copyright (c) 2002-2003 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) 9.1 (TS1M3)
NOTE: This session is executing on the XP_PRO platform.

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:
real time 5.59 seconds
cpu time 1.26 seconds

NOTE: AUTOEXEC processing beginning; file is I:\WW3\APPLIC~1\SAS\FOUND~1.3\sas\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1  OPTIONS LS=132 PS=59;  
2  
3  TITLE1 "HC-102I";  
4  TITLE2 "Sample SAS Job for Example A";  
5  
6  LIBNAME IN "C:\Data";  
NOTE: Libref IN was successfully assigned as follows:  
Engine: V9  
Physical Name: C:\Data
```

```
7  
8  *****  
9  * Calculate the expenditures for prescribed medicines associated with medical visits for asthma.  
10 *****;  
11  
12 PROC FORMAT;  
13   VALUE EVENTYPE  
14     1 = "1 MVIS"  
15     2 = "2 OPAT"  
16     3 = "3 EROM"  
17     4 = "4 STAZ"  
18     5 = "5 DVIS"  
19     6 = "6 OMED"  
20     7 = "7 HVIS"  
21     8 = "8 PMED";
```

NOTE: Format EVENTYPE has been output.

```
22  
23 RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):
real time 0.09 seconds
cpu time 0.00 seconds

```
24  
25 *-----  
26 * Get condition records coded as asthma.  
27 *-----;  
28 DATA ASCONDS;  
29   SET IN.H104 (KEEP=CONDIDX CCCODEX);  
30   IF CCCODEX="128";  
31  
32 RUN;
```

NOTE: There were 105166 observations read from the data set IN.H104.
NOTE: The data set WORK.ASCONDS has 1990 observations and 2 variables.
NOTE: DATA statement used (Total process time):
real time 0.26 seconds
cpu time 0.12 seconds

33

```
34 *-----
35 * Get the events linked to each of the asthma condition records.
36 *-----;
37 PROC SORT DATA=ASCONDS; BY CONDIDX; RUN;
```

NOTE: There were 1990 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCONDS has 1990 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	0.06 seconds
cpu time	0.03 seconds

```
38
39 proc print data=asconds (obs=50);
40     title3 "sample print of work.asconds - sorted by condidx";
41     title4 "COND (H104) records where cccodex=128";
42 run;
```

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
NOTE: PROCEDURE PRINT used (Total process time):

real time	0.12 seconds
cpu time	0.00 seconds

```
43
44 PROC SORT DATA=IN.H102IF1 OUT=CLNK; BY CONDIDX; RUN;
```

NOTE: There were 350780 observations read from the data set IN.H102IF1.
NOTE: The data set WORK.CLNK has 350780 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	1.95 seconds
cpu time	0.85 seconds

```
45
46 DATA ASCLNKS;
47     MERGE CLNK (IN=INCLNK KEEP=CONDIDX EVNTIDX EVENTYPE)
48             ASCONDS(IN=INASCND KEEP=CONDIDX);
49     BY CONDIDX;
50     IF INCLNK & INASCND;
51 RUN;
```

NOTE: There were 350780 observations read from the data set WORK.CLNK.
NOTE: There were 1990 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7984 observations and 3 variables.
NOTE: DATA statement used (Total process time):

real time	1.43 seconds
cpu time	0.39 seconds

```
52
53 proc print data=asclnks (obs=75);
54     by condidx;
55     id condidx;
56     format eventype eventype.;
57     title3 "sample print of work.asclnks - sorted by condidx";
58     title4 "events linked to asthma condition records";
59 run;
```

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
NOTE: PROCEDURE PRINT used (Total process time):

real time	0.07 seconds
cpu time	0.01 seconds

```
60
61 PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;
```

NOTE: There were 7984 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7984 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	0.04 seconds
cpu time	0.01 seconds

```

62
63 proc print data=asclnks (obs=50);
64     format eventype eventype.;
65     title3 "sample print of work.asclnks - sorted by evntidx";
66 run;

```

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

NOTE: PROCEDURE PRINT used (Total process time):

```

real time      0.01 seconds
cpu time       0.00 seconds

```

```

67
68 DATA ASCLNKS;
69     SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
70     BY EVNTIDX;
71     IF FIRST.EVNTIDX;
72 RUN;

```

NOTE: There were 7984 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 7978 observations and 2 variables.

NOTE: DATA statement used (Total process time):

```

real time      0.01 seconds
cpu time       0.00 seconds

```

```

73
74 proc print data=asclnks (obs=50);
75     title3 "sample print of unique evntidxs from work.asclnks";
76     format eventype eventype.;
77 run;

```

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

NOTE: PROCEDURE PRINT used (Total process time):

```

real time      0.01 seconds
cpu time       0.01 seconds

```

```

78
79 *-----
80 * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
81 *-----;
82 DATA MVIS;
83     SET IN.H102G (KEEP=EVNTIDX PERWT06F SEETLKPV);
84     IF PERWT06F > 0 & SEETLKPV NE 2;
85 RUN;

```

NOTE: There were 155502 observations read from the data set IN.H102G.

NOTE: The data set WORK.MVIS has 151007 observations and 3 variables.

NOTE: DATA statement used (Total process time):

```

real time      1.28 seconds
cpu time       0.26 seconds

```

```

86
87 PROC SORT DATA=MVIS; BY EVNTIDX; RUN;

```

NOTE: There were 151007 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.MVIS has 151007 observations and 3 variables.

NOTE: PROCEDURE SORT used (Total process time):

```

real time      0.21 seconds
cpu time       0.17 seconds

```

```

88
89 *-----
90 * Identify MVIS events which were for asthma.
91 *-----;
92 DATA ASMVIS;
93     MERGE ASCLNKS (IN=INASCLNK)

```

```

94         MVIS      (IN=INMVIS KEEP=EVNTIDX);
95     BY EVNTIDX;
96     IF INASCLNK & INMVIS;
97     RUN;

```

```

NOTE: There were 7978 observations read from the data set WORK.ASCLNKS.
NOTE: There were 151007 observations read from the data set WORK.MVIS.
NOTE: The data set WORK.ASMVIS has 2320 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           0.18 seconds
      cpu time            0.18 seconds

```

```

98
99     proc print data=asmvis (obs=50);
100     format eventype eventype.;
101     title3 "sample print of work.asmvis";
102     title4 "unique evtidxs from work.asclnks that are non-telephone MVIS (HC-102G) events";
103     run;

```

```

NOTE: There were 50 observations read from the data set WORK.ASMVIS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.28 seconds
      cpu time            0.01 seconds

```

```

104
105     *-----
106     * Get PMED IDs linked to the MVIS events which were for asthma.
107     *-----;
108     PROC SORT DATA=IN.H102IF2 OUT=RXLK; BY EVNTIDX; RUN;

```

```

NOTE: There were 61068 observations read from the data set IN.H102IF2.
NOTE: The data set WORK.RXLK has 61068 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.14 seconds
      cpu time            0.10 seconds

```

```

109
110     proc print data=rxlk (obs=140);
111     by evtidx;
112     id evtidx;
113     var linkidx eventype;
114     format eventype eventype.;
115     title3 "sample print of work.rxlk - sorted by evtidx";
116     title4 "Rx+event link file records (HC-102IF2)";
117     run;

```

```

NOTE: There were 140 observations read from the data set WORK.RXLK.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.01 seconds
      cpu time            0.00 seconds

```

```

118
119     DATA PMEDIDS;
120     MERGE RXLK (IN=INRXLK KEEP=EVNTIDX LINKIDX EVENTYPE)
121     ASMVIS(IN=INASMVIS KEEP=EVNTIDX);
122     BY EVNTIDX;
123     IF INRXLK & INASMVIS;
124     RUN;

```

```

NOTE: There were 61068 observations read from the data set WORK.RXLK.
NOTE: There were 2320 observations read from the data set WORK.ASMVIS.
NOTE: The data set WORK.PMEDIDS has 2353 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time           0.06 seconds
      cpu time            0.06 seconds

```

125

```

126 proc print data=pmedids (obs=50);
127   by evntidx;
128   id evntidx;
129   format eventype eventype.;
130   title3 "sample print of work.pmedids - sorted by evntidx";
131   title4 "work.rx1k records for evntidxs in work.asmvis";
132 run;

```

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: PROCEDURE PRINT used (Total process time):

real time	0.01 seconds
cpu time	0.00 seconds

```

133
134 PROC SORT DATA=PMEDIDS; BY LINKIDX; RUN;

```

NOTE: There were 2353 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.PMEDIDS has 2353 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	0.01 seconds
cpu time	0.01 seconds

```

135
136 proc print data=pmedids (obs=50);
137   format eventype eventype.;
138   title3 "sample print of work.pmedids - sorted by linkidx";
139 run;

```

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: PROCEDURE PRINT used (Total process time):

real time	0.01 seconds
cpu time	0.00 seconds

```

140
141 DATA PMEDIDS;
142   SET PMEDIDS (KEEP=LINKIDX);
143   BY LINKIDX;
144   IF FIRST.LINKIDX;
145 RUN;

```

NOTE: There were 2353 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.PMEDIDS has 2240 observations and 1 variables.
NOTE: DATA statement used (Total process time):

real time	0.01 seconds
cpu time	0.00 seconds

```

146
147 proc print data=pmedids (obs=50);
148   title3 "sample print of unique linkidxs in work.pmedids";
149 run;

```

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: PROCEDURE PRINT used (Total process time):

real time	0.00 seconds
cpu time	0.00 seconds

```

150
151 *-----
152 * Get PMED records linked to MVIS events which were for asthma.
153 *-----;
154 PROC SORT DATA=IN.H102A OUT=PMED; BY LINKIDX; RUN;

```

NOTE: There were 341994 observations read from the data set IN.H102A.
NOTE: The data set WORK.PMED has 341994 observations and 13 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	16.06 seconds
cpu time	2.84 seconds

```

155
156 DATA MVPMEDS;
157     MERGE PMED (KEEP=LINKIDX RXRECIDX  RXXP06X PERWT06F RXNAME)
158         PMEDIDS (IN=A);
159     BY LINKIDX;
160     IF A;
161 RUN;

```

```

NOTE: There were 341994 observations read from the data set WORK.PMED.
NOTE: There were 2240 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.MVPMEDS has 6040 observations and 5 variables.
NOTE: DATA statement used (Total process time):
      real time           0.42 seconds
      cpu time            0.42 seconds

```

```

162
163 proc print data=mvpmeds (obs=200);
164     var rxrecidx rxname RXXP06X  PERWT06F;
165     by linkidx;
166     id linkidx;
167     title3 "sample print of work.mvpmeds";
168     title4 "PMED (HC-102A) records for unique linkidxs in work.pmedids";
169 run;

```

```

NOTE: There were 200 observations read from the data set WORK.MVPMEDS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.01 seconds
      cpu time            0.00 seconds

```

```

170
171 PROC MEANS DATA=MVPMEDS N SUM;
172     VAR RXXP06X;
173     TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";
174 RUN;

```

```

NOTE: There were 6040 observations read from the data set WORK.MVPMEDS.
NOTE: PROCEDURE MEANS used (Total process time):
      real time           0.15 seconds
      cpu time            0.03 seconds

```

```

175
176 PROC MEANS DATA=MVPMEDS N SUM;
177     VAR RXXP06X;
178     WEIGHT PERWT06F;
179     TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";
180     TITLE5 "Weighted";
181 RUN;

```

```

NOTE: There were 6040 observations read from the data set WORK.MVPMEDS.
NOTE: PROCEDURE MEANS used (Total process time):
      real time           0.03 seconds
      cpu time            0.01 seconds

```

Sample SAS Job for Example A
 sample print of work.asconds - sorted by condidx
 COND (H104) records where cccodex=128

Obs	CCCODEX	CONDIDX
1	128	300180180093
2	128	300230580049
3	128	300400300014
4	128	300490270010
5	128	300600350034
6	128	300610290019
7	128	300680130051
8	128	300830210012
9	128	300910450025
10	128	301170420016
11	128	301320230021
12	128	301470290031
13	128	302050190018
14	128	302050330038
15	128	302050330050
16	128	302070200083
17	128	302170520040
18	128	302560570015
19	128	302740680016
20	128	302850140023
21	128	302920640046
22	128	302950160019
23	128	302950230018
24	128	302980530024
25	128	303290290060
26	128	303350230045
27	128	303510370015
28	128	303600490028
29	128	303670100066
30	128	303730200010
31	128	303760240088
32	128	303760240024
33	128	303780330060
34	128	303780400075
35	128	303930110039
36	128	304140140175
37	128	304220290013
38	128	304220360012
39	128	304250390016
40	128	304280150074
41	128	304540490089
42	128	304550430109
43	128	304570200013
44	128	304620150092
45	128	304620270080
46	128	304710110124
47	128	304740470017
48	128	304840230070
49	128	305110240030
50	128	305260250057

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

CONDIDX	EVNTIDX	EVENTYPE
300180180093	300180180418	8 PMED
	300180180521	8 PMED
	300180180610	1 MVIS
300230580049	300230580090	3 EROM
	300230580103	3 EROM
	300230580110	3 EROM
	300230580141	1 MVIS
	300230580158	8 PMED
300400300014	300400300031	3 EROM
	300400300048	8 PMED
	300400300055	8 PMED
	300400300062	8 PMED
300600350034	300600350206	1 MVIS
300610290019	300610290292	1 MVIS
	300610290305	1 MVIS
	300610290312	1 MVIS
	300610290336	8 PMED
	300610290350	8 PMED
	300610290367	8 PMED
	300610290374	8 PMED
	300610290398	8 PMED
	300610290418	1 MVIS
	300610290456	8 PMED
300680130051	300680130196	8 PMED
	300680130209	8 PMED
	300680130230	8 PMED
	300680130247	8 PMED
300910450025	300910450099	8 PMED
	300910450102	8 PMED
	300910450164	8 PMED
	300910450171	8 PMED
301170420016	301170420048	8 PMED
	301170420062	8 PMED
301320230021	301320230287	8 PMED
	301320230383	8 PMED
	301320230390	8 PMED
	301320230472	8 PMED
	301320230489	8 PMED
301470290031	301470290097	1 MVIS
	301470290100	1 MVIS

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

CONDIDX	EVNTIDX	EVENTTYPE
301470290031	301470290124	8 PMED
302050190018	302050190016	8 PMED
	302050190023	8 PMED
302050330038	302050330054	1 MVIS
	302050330078	3 EROM
	302050330092	8 PMED
	302050330112	8 PMED
302050330050	302050330085	8 PMED
302070200083	302070200148	8 PMED
	302070200155	8 PMED
302170520040	302170520033	8 PMED
302560570015	302560570125	8 PMED
302920640046	302920640123	1 MVIS
	302920640130	8 PMED
	302920640147	8 PMED
302950230018	302950230057	8 PMED
	302950230115	8 PMED
303290290060	303290290117	8 PMED
	303290290148	8 PMED
303350230045	303350230445	8 PMED
	303350230558	8 PMED
	303350230572	1 MVIS
	303350230589	1 MVIS
	303350230596	1 MVIS
	303350230623	8 PMED
	303350230630	8 PMED
	303350230661	8 PMED
	303350230678	8 PMED
	303350230705	8 PMED
	303350230729	8 PMED
	303350230801	8 PMED
	303350230825	8 PMED
	303350230849	8 PMED
303510370015	303510370359	8 PMED
	303510370366	8 PMED

Sample SAS Job for Example A
 sample print of work.asclinks - sorted by evtntidx

Obs	EVNTIDX	EVENTYPE	CONDIDX
1	300180180418	8 PMED	300180180093
2	300180180521	8 PMED	300180180093
3	300180180610	1 MVIS	300180180093
4	300230580090	3 EROM	300230580049
5	300230580103	3 EROM	300230580049
6	300230580110	3 EROM	300230580049
7	300230580141	1 MVIS	300230580049
8	300230580158	8 PMED	300230580049
9	300400300031	3 EROM	300400300014
10	300400300048	8 PMED	300400300014
11	300400300055	8 PMED	300400300014
12	300400300062	8 PMED	300400300014
13	300600350206	1 MVIS	300600350034
14	300610290292	1 MVIS	300610290019
15	300610290305	1 MVIS	300610290019
16	300610290312	1 MVIS	300610290019
17	300610290336	8 PMED	300610290019
18	300610290350	8 PMED	300610290019
19	300610290367	8 PMED	300610290019
20	300610290374	8 PMED	300610290019
21	300610290398	8 PMED	300610290019
22	300610290418	1 MVIS	300610290019
23	300610290456	8 PMED	300610290019
24	300680130196	8 PMED	300680130051
25	300680130209	8 PMED	300680130051
26	300680130230	8 PMED	300680130051
27	300680130247	8 PMED	300680130051
28	300910450099	8 PMED	300910450025
29	300910450102	8 PMED	300910450025
30	300910450164	8 PMED	300910450025
31	300910450171	8 PMED	300910450025
32	301170420048	8 PMED	301170420016
33	301170420062	8 PMED	301170420016
34	301320230287	8 PMED	301320230021
35	301320230383	8 PMED	301320230021
36	301320230390	8 PMED	301320230021
37	301320230472	8 PMED	301320230021
38	301320230489	8 PMED	301320230021
39	301470290097	1 MVIS	301470290031
40	301470290100	1 MVIS	301470290031
41	301470290124	8 PMED	301470290031
42	302050190016	8 PMED	302050190018
43	302050190023	8 PMED	302050190018
44	302050330054	1 MVIS	302050330038
45	302050330078	3 EROM	302050330038
46	302050330085	8 PMED	302050330050
47	302050330092	8 PMED	302050330038
48	302050330112	8 PMED	302050330038
49	302070200148	8 PMED	302070200083
50	302070200155	8 PMED	302070200083

Sample SAS Job for Example A
sample print of unique evntidxs from work.asclnks

Obs	EVNTIDX	EVENTYPE
1	300180180418	8 PMED
2	300180180521	8 PMED
3	300180180610	1 MVIS
4	300230580090	3 EROM
5	300230580103	3 EROM
6	300230580110	3 EROM
7	300230580141	1 MVIS
8	300230580158	8 PMED
9	300400300031	3 EROM
10	300400300048	8 PMED
11	300400300055	8 PMED
12	300400300062	8 PMED
13	300600350206	1 MVIS
14	300610290292	1 MVIS
15	300610290305	1 MVIS
16	300610290312	1 MVIS
17	300610290336	8 PMED
18	300610290350	8 PMED
19	300610290367	8 PMED
20	300610290374	8 PMED
21	300610290398	8 PMED
22	300610290418	1 MVIS
23	300610290456	8 PMED
24	300680130196	8 PMED
25	300680130209	8 PMED
26	300680130230	8 PMED
27	300680130247	8 PMED
28	300910450099	8 PMED
29	300910450102	8 PMED
30	300910450164	8 PMED
31	300910450171	8 PMED
32	301170420048	8 PMED
33	301170420062	8 PMED
34	301320230287	8 PMED
35	301320230383	8 PMED
36	301320230390	8 PMED
37	301320230472	8 PMED
38	301320230489	8 PMED
39	301470290097	1 MVIS
40	301470290100	1 MVIS
41	301470290124	8 PMED
42	302050190016	8 PMED
43	302050190023	8 PMED
44	302050330054	1 MVIS
45	302050330078	3 EROM
46	302050330085	8 PMED
47	302050330092	8 PMED
48	302050330112	8 PMED
49	302070200148	8 PMED
50	302070200155	8 PMED

Sample SAS Job for Example A
sample print of work.asmvis
unique evntidxs from work.asclnks that are non-telephone MVIS (HC-102G) events

Obs	EVNTIDX	EVENTYPE
1	300180180610	1 MVIS
2	300230580141	1 MVIS
3	300600350206	1 MVIS
4	300610290292	1 MVIS
5	300610290305	1 MVIS
6	300610290312	1 MVIS
7	301470290097	1 MVIS
8	301470290100	1 MVIS
9	302050330054	1 MVIS
10	302920640123	1 MVIS
11	303350230572	1 MVIS
12	303350230589	1 MVIS
13	303670100336	1 MVIS
14	303760240669	1 MVIS
15	303760240683	1 MVIS
16	303760240690	1 MVIS
17	303760240703	1 MVIS
18	303760240710	1 MVIS
19	303760240734	1 MVIS
20	303780330350	1 MVIS
21	303780330367	1 MVIS
22	303780330381	1 MVIS
23	303780330398	1 MVIS
24	303780330401	1 MVIS
25	303780400158	1 MVIS
26	303780400223	1 MVIS
27	304140140813	1 MVIS
28	304140140820	1 MVIS
29	304140140837	1 MVIS
30	304140140844	1 MVIS
31	304140140851	1 MVIS
32	304140140868	1 MVIS
33	304140141501	1 MVIS
34	304140141518	1 MVIS
35	304140141525	1 MVIS
36	304140141532	1 MVIS
37	304140141549	1 MVIS
38	304140141690	1 MVIS
39	304140141703	1 MVIS
40	304140141710	1 MVIS
41	304140141727	1 MVIS
42	304140141734	1 MVIS
43	304140141741	1 MVIS
44	304140141758	1 MVIS
45	304140141765	1 MVIS
46	304140141772	1 MVIS
47	304140141789	1 MVIS
48	304220360147	1 MVIS
49	304250390218	1 MVIS
50	304280150687	1 MVIS

Sample SAS Job for Example A
 sample print of work.rxlk - sorted by evtidx
 Rx+event link file records (HC-102IF2)

EVNTIDX	LINKIDX	EVENTYPE
300020190021	300020190045	3 EROM
	300020190052	3 EROM
	300020190069	3 EROM
	300020190076	3 EROM
	300020190083	3 EROM
	300020190090	3 EROM
300020190110	300020190189	1 MVIS
	300020190196	1 MVIS
	300020190209	1 MVIS
	300020190216	1 MVIS
	300020190223	1 MVIS
300040270167	300040270181	1 MVIS
300040270201	300040270225	1 MVIS
	300040270232	1 MVIS
300050150559	300050150686	1 MVIS
	300050150693	1 MVIS
	300050150706	1 MVIS
	300050150713	1 MVIS
	300050150720	1 MVIS
	300050150737	1 MVIS
	300050150744	1 MVIS
	300050150751	1 MVIS
	300050150768	1 MVIS
	300050150775	1 MVIS
300060360081	300060360098	2 OPAT
300080830080	300080830100	1 MVIS
	300080830117	1 MVIS
300080830097	300080830100	1 MVIS
	300080830117	1 MVIS
300090130169	300090130203	1 MVIS
300090130258	300090130272	1 MVIS
300100100332	300100100363	1 MVIS
300110100771	300110101161	1 MVIS
	300110101178	1 MVIS
300110100795	300110101161	1 MVIS
	300110101178	1 MVIS

Sample SAS Job for Example A
 sample print of work.rxlk - sorted by evntidx
 Rx+event link file records (HC-102IF2)

EVNTIDX	LINKIDX	EVENTYPE
300110100808	300110101161	1 MVIS
	300110101178	1 MVIS
300110100815	300110101161	1 MVIS
	300110101178	1 MVIS
300110100822	300110101161	1 MVIS
	300110101178	1 MVIS
300110101003	300110101185	1 MVIS
300110101109	300110101192	3 EROM
	300110101205	3 EROM
300110101116	300110101161	3 EROM
	300110101178	3 EROM
	300110101185	3 EROM
	300110101212	3 EROM
	300110101229	3 EROM
	300110101236	3 EROM
	300110101243	3 EROM
	300110101250	3 EROM
	300110101267	3 EROM
	300110101274	3 EROM
300110101281	3 EROM	
300110101123	300110101281	4 STAZ
300130290174	300130290181	1 MVIS
300130290201	300130290249	5 DVIS
300160270162	300160270193	1 MVIS
300160270179	300160270206	1 MVIS
300160270186	300160270213	5 DVIS
	300160270220	5 DVIS
	300160270237	5 DVIS
	300160270244	5 DVIS
300160270268	300160270302	1 MVIS
300170230131	300170230179	2 OPAT
300170230237	300170230244	1 MVIS
300170470179	300170470186	1 MVIS

Sample SAS Job for Example A
 sample print of work.rxlk - sorted by evtidx
 Rx+event link file records (HC-102IF2)

EVNTIDX	LINKIDX	EVENTYPE
300170470193	300170470206	3 EROM
300180180590	300180180843	3 EROM
300180180665	300180180867	1 MVIS
300200190054	300200190061	1 MVIS
300200310094	300200310107	1 MVIS
300200310121	300200310138	1 MVIS
	300200310145	1 MVIS
300200310152	300200310190	1 MVIS
300200490048	300200490055	1 MVIS
300210180201	300210180218	1 MVIS
	300210180225	1 MVIS
	300210180232	1 MVIS
300230410103	300230410110	1 MVIS
	300230410127	1 MVIS
300230580110	300230580158	3 EROM
300230580141	300230580165	1 MVIS
300250110050	300250110067	1 MVIS
300260210032	300260210049	1 MVIS
	300260210056	1 MVIS
300260420035	300260420042	1 MVIS
300270110015	300270110039	1 MVIS
300270130020	300270130037	4 STAZ
300280150332	300280150387	1 MVIS
	300280150394	1 MVIS
300280150452	300280150534	1 MVIS
300280150510	300280150541	1 MVIS
	300280150558	1 MVIS
	300280150565	1 MVIS
300280220205	300280220274	1 MVIS

Sample SAS Job for Example A
 sample print of work.rxlk - sorted by evntidx
 Rx+event link file records (HC-102IF2)

EVNTIDX	LINKIDX	EVENTYPE
300280220212	300280220281	1 MVIS
300280220363	300280220630	1 MVIS
300280220476	300280220647	4 STAZ
300280390387	300280390414	1 MVIS
300280390438	300280390490	1 MVIS
	300280390503	1 MVIS
300280460116	300280460154	1 MVIS
300320170391	300320170411	1 MVIS
300320170473	300320170548	1 MVIS
	300320170555	1 MVIS
	300320170562	1 MVIS
	300320170579	1 MVIS
	300320170586	1 MVIS
	300320170593	1 MVIS
	300320170606	1 MVIS
300320170613	300320170637	1 MVIS
300320310113	300320310120	1 MVIS
300340260019	300340260026	1 MVIS
300340340183	300340340227	1 MVIS
	300340340234	1 MVIS
300360250228	300360250259	1 MVIS
	300360250266	1 MVIS
300370170926	300370171070	4 STAZ
	300370171094	4 STAZ
300370240039	300370240053	1 MVIS
	300370240060	1 MVIS
300380271006	300380271082	1 MVIS
	300380271099	1 MVIS
300380271044	300380271102	1 MVIS
300400160048	300400160062	3 EROM
300400300031	300400300048	3 EROM

Sample SAS Job for Example A
 sample print of work.rxlk - sorted by evntidx
 Rx+event link file records (HC-102IF2)

EVNTIDX	LINKIDX	EVENTYPE
300400300031	300400300055	3 EROM
	300400300062	3 EROM
300410130222	300410130253	1 MVIS
300410130284	300410130335	1 MVIS
	300410130342	1 MVIS
300410130304	300410130359	1 MVIS
300420180111	300420180128	1 MVIS
300420180142	300420180313	1 MVIS
300430120071	300430120095	5 DVIS
	300430120108	5 DVIS
300430290184	300430290228	1 MVIS

Sample SAS Job for Example A
 sample print of work.pmedids - sorted by evtndix
 work.rxlk records for evtndixs in work.asmvis

EVNTIDX	EVENTYPE	LINKIDX
300230580141	1 MVIS	300230580165
300600350206	1 MVIS	300600350244
301470290097	1 MVIS	301470290117
	1 MVIS	301470290124
302050330054	1 MVIS	302050330085
302920640123	1 MVIS	302920640130
	1 MVIS	302920640147
303350230572	1 MVIS	303350230616
	1 MVIS	303350230623
303780330350	1 MVIS	303780330425
303780330398	1 MVIS	303780330449
	1 MVIS	303780330456
	1 MVIS	303780330463
303780330401	1 MVIS	303780330470
303780400158	1 MVIS	303780400172
	1 MVIS	303780400189
	1 MVIS	303780400196
303780400223	1 MVIS	303780400247
	1 MVIS	303780400254
304140140813	1 MVIS	304140141309
	1 MVIS	304140141316
	1 MVIS	304140141323
	1 MVIS	304140141330
	1 MVIS	304140141347
	1 MVIS	304140141354
	1 MVIS	304140141361
	1 MVIS	304140141378
	1 MVIS	304140141385
	1 MVIS	304140141392
	1 MVIS	304140141405
	1 MVIS	304140141412
	1 MVIS	304140141429
304140141501	1 MVIS	304140141885
	1 MVIS	304140141892
	1 MVIS	304140141905
	1 MVIS	304140141912
	1 MVIS	304140141929

Sample SAS Job for Example A
 sample print of work.pmedids - sorted by evntidx
 work.rxlk records for evntidxs in work.asmvis

EVNTIDX	EVENTYPE	LINKIDX
304140141501	1 MVIS	304140141936
	1 MVIS	304140141943
	1 MVIS	304140141950
	1 MVIS	304140141967
	1 MVIS	304140141974
	1 MVIS	304140141981
	1 MVIS	304140141998
	1 MVIS	304140142004
	1 MVIS	304140142011
304140141690	1 MVIS	304140141892
	1 MVIS	304140141905
	1 MVIS	304140141912
	1 MVIS	304140141943

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

Obs	EVNTIDX	EVENTYPE	LINKIDX
1	300230580141	1 MVIS	300230580165
2	300600350206	1 MVIS	300600350244
3	301470290097	1 MVIS	301470290117
4	301470290097	1 MVIS	301470290124
5	302050330054	1 MVIS	302050330085
6	302920640123	1 MVIS	302920640130
7	302920640123	1 MVIS	302920640147
8	303350230572	1 MVIS	303350230616
9	303350230572	1 MVIS	303350230623
10	303780330350	1 MVIS	303780330425
11	303780330398	1 MVIS	303780330449
12	303780330398	1 MVIS	303780330456
13	303780330398	1 MVIS	303780330463
14	303780330401	1 MVIS	303780330470
15	303780400158	1 MVIS	303780400172
16	303780400158	1 MVIS	303780400189
17	303780400158	1 MVIS	303780400196
18	303780400223	1 MVIS	303780400247
19	303780400223	1 MVIS	303780400254
20	304140140813	1 MVIS	304140141309
21	304140140813	1 MVIS	304140141316
22	304140140813	1 MVIS	304140141323
23	304140140813	1 MVIS	304140141330
24	304140140813	1 MVIS	304140141347
25	304140140813	1 MVIS	304140141354
26	304140140813	1 MVIS	304140141361
27	304140140813	1 MVIS	304140141378
28	304140140813	1 MVIS	304140141385
29	304140140813	1 MVIS	304140141392
30	304140140813	1 MVIS	304140141405
31	304140140813	1 MVIS	304140141412
32	304140140813	1 MVIS	304140141429
33	304140141501	1 MVIS	304140141885
34	304140141501	1 MVIS	304140141892
35	304140141690	1 MVIS	304140141892
36	304140141501	1 MVIS	304140141905
37	304140141690	1 MVIS	304140141905
38	304140141501	1 MVIS	304140141912
39	304140141690	1 MVIS	304140141912
40	304140141501	1 MVIS	304140141929
41	304140141501	1 MVIS	304140141936
42	304140141501	1 MVIS	304140141943
43	304140141690	1 MVIS	304140141943
44	304140141501	1 MVIS	304140141950
45	304140141690	1 MVIS	304140141950
46	304140141501	1 MVIS	304140141967
47	304140141690	1 MVIS	304140141967
48	304140141501	1 MVIS	304140141974
49	304140141501	1 MVIS	304140141981
50	304140141501	1 MVIS	304140141998

Sample SAS Job for Example A
sample print of unique linkidxs in work.pmedids

Obs	LINKIDX
1	300230580165
2	300600350244
3	301470290117
4	301470290124
5	302050330085
6	302920640130
7	302920640147
8	303350230616
9	303350230623
10	303780330425
11	303780330449
12	303780330456
13	303780330463
14	303780330470
15	303780400172
16	303780400189
17	303780400196
18	303780400247
19	303780400254
20	304140141309
21	304140141316
22	304140141323
23	304140141330
24	304140141347
25	304140141354
26	304140141361
27	304140141378
28	304140141385
29	304140141392
30	304140141405
31	304140141412
32	304140141429
33	304140141885
34	304140141892
35	304140141905
36	304140141912
37	304140141929
38	304140141936
39	304140141943
40	304140141950
41	304140141967
42	304140141974
43	304140141981
44	304140141998
45	304140142004
46	304140142011
47	304140142035
48	305110240177
49	305110240184
50	305110240191

Sample SAS Job for Example A
sample print of work.mvpmeds

PMED (HC-102A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
300230580165	300230580165001	SINGULAIR	92.12	4647.878284
300600350244	300600350244001	AMOXICILLIN (RASPBERRY-STRAWBERRY)	12.18	5451.825282
301470290117	301470290117001	AZITHROMYCIN	30.64	4964.901754
301470290124	301470290124001	BRETHINE	44.75	4964.901754
302050330085	302050330085001	PULMICORT RESPULES (5X6)	300.88	4355.758139
302920640130	302920640130001	ALBUTEROL SULFATE (VIAL)	25.58	1436.909526
302920640147	302920640147001	PULMICORT RESPULES (5X6)	304.70	1436.909526
303350230616	303350230616001	ZITHROMAX	34.22	8363.548295
303350230623	303350230623001	METHYLPREDNISOLONE	8.66	8363.548295
	303350230623002	METHYLPREDNISOLONE	8.66	8363.548295
303780330425	303780330425001	PREDNISONE (PEPPERMINT-VANILLA)	26.41	15296.326798
	303780330425002	PREDNISONE (PEPPERMINT-VANILLA)	26.41	15296.326798
303780330449	303780330449001	RESPI-TANN (DYE-FREE,CHERRY)	55.65	15296.326798
303780330456	303780330456001	HALOBETASOL	108.99	15296.326798
303780330463	303780330463001	CORTANE-B	62.15	15296.326798
303780330470	303780330470001	HISDEC	5.69	15296.326798
303780400172	303780400172001	HISDEC	8.82	10940.657155
303780400189	303780400189001	ALBUTEROL INHALER	20.29	10940.657155
	303780400189002	ALBUTEROL INHALER	20.29	10940.657155
303780400196	303780400196001	FLOVENT	134.00	10940.657155
	303780400196002	FLOVENT	134.00	10940.657155
303780400247	303780400247001	PREDNISONE (PEPPERMINT-VANILLA)	26.41	10940.657155
303780400254	303780400254001	SINGULAIR	93.76	10940.657155
304140141309	304140141309001	APAP/HYDROCODONE BITARTRATE	55.79	4183.222652
	304140141309002	APAP/HYDROCODONE BITARTRATE	55.79	4183.222652
	304140141309003	APAP/HYDROCODONE BITARTRATE	55.79	4183.222652
	304140141309004	APAP/HYDROCODONE BITARTRATE	55.79	4183.222652
	304140141309005	APAP/HYDROCODONE BITARTRATE	55.79	4183.222652
	304140141309006	APAP/HYDROCODONE BITARTRATE	55.79	4183.222652

Sample SAS Job for Example A
sample print of work.mvpmeds

PMED (HC-102A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
304140141316	304140141316001	NAPROXEN	5.05	4183.222652
	304140141316002	NAPROXEN	5.05	4183.222652
	304140141316003	NAPROXEN	5.05	4183.222652
	304140141316004	NAPROXEN	5.05	4183.222652
	304140141316005	NAPROXEN	5.05	4183.222652
	304140141316006	NAPROXEN	5.05	4183.222652
304140141323	304140141323001	ALBUTEROL	14.67	4183.222652
	304140141323002	ALBUTEROL	14.67	4183.222652
	304140141323003	ALBUTEROL	14.67	4183.222652
	304140141323004	ALBUTEROL	14.67	4183.222652
	304140141323005	ALBUTEROL	14.67	4183.222652
	304140141323006	ALBUTEROL	14.67	4183.222652
304140141330	304140141330001	GEN ROBITUSSIN	9.99	4183.222652
	304140141330002	GEN ROBITUSSIN	9.99	4183.222652
	304140141330003	GEN ROBITUSSIN	9.99	4183.222652
	304140141330004	GEN ROBITUSSIN	9.99	4183.222652
	304140141330005	GEN ROBITUSSIN	9.99	4183.222652
	304140141330006	GEN ROBITUSSIN	9.99	4183.222652
304140141347	304140141347001	FENTANYL	53.41	4183.222652
	304140141347002	FENTANYL	53.41	4183.222652
	304140141347003	FENTANYL	53.41	4183.222652
	304140141347004	FENTANYL	53.41	4183.222652
	304140141347005	FENTANYL	53.41	4183.222652
	304140141347006	FENTANYL	53.41	4183.222652
304140141354	304140141354001	OXYCONTIN	3.31	4183.222652
	304140141354002	OXYCONTIN	198.49	4183.222652
	304140141354003	OXYCONTIN	693.44	4183.222652
	304140141354004	OXYCONTIN	3.31	4183.222652
	304140141354005	OXYCONTIN	693.44	4183.222652
	304140141354006	OXYCONTIN	3.31	4183.222652
304140141361	304140141361001	HYDROCHLOROTHIAZIDE	6.70	4183.222652
	304140141361002	HYDROCHLOROTHIAZIDE	6.70	4183.222652
	304140141361003	HYDROCHLOROTHIAZIDE	6.70	4183.222652
	304140141361004	HYDROCHLOROTHIAZIDE	6.70	4183.222652
	304140141361005	HYDROCHLOROTHIAZIDE	6.70	4183.222652
	304140141361006	HYDROCHLOROTHIAZIDE	6.70	4183.222652
304140141378	304140141378001	POTASSIUM	8.26	4183.222652
	304140141378002	POTASSIUM	8.26	4183.222652
	304140141378003	POTASSIUM	8.26	4183.222652
	304140141378004	POTASSIUM	8.26	4183.222652
	304140141378005	POTASSIUM	8.26	4183.222652
	304140141378006	POTASSIUM	8.26	4183.222652

Sample SAS Job for Example A
sample print of work.mvpmeds

PMED (HC-102A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
304140141385	304140141385001	DICAL-D	24.80	4183.222652
	304140141385002	DICAL-D	24.80	4183.222652
	304140141385003	DICAL-D	24.80	4183.222652
	304140141385004	DICAL-D	24.80	4183.222652
	304140141385005	DICAL-D	24.80	4183.222652
	304140141385006	DICAL-D	24.80	4183.222652
304140141392	304140141392001	ATENOLOL	6.30	4183.222652
304140141405	304140141405001	OXYCONTIN	693.44	4183.222652
	304140141405002	OXYCONTIN	5.87	4183.222652
	304140141405003	OXYCONTIN	693.44	4183.222652
	304140141405004	OXYCONTIN	5.87	4183.222652
	304140141405005	OXYCONTIN	5.87	4183.222652
	304140141405006	OXYCONTIN	5.87	4183.222652
304140141412	304140141412001	LIPITOR	212.51	4183.222652
	304140141412002	LIPITOR	212.51	4183.222652
	304140141412003	LIPITOR	212.51	4183.222652
	304140141412004	LIPITOR	212.51	4183.222652
	304140141412005	LIPITOR	212.51	4183.222652
	304140141412006	LIPITOR	212.51	4183.222652
304140141429	304140141429001	BUMEX	54.01	4183.222652
	304140141429002	BUMEX	54.01	4183.222652
	304140141429003	BUMEX	54.01	4183.222652
	304140141429004	BUMEX	54.01	4183.222652
	304140141429005	BUMEX	54.01	4183.222652
	304140141429006	BUMEX	54.01	4183.222652
304140141885	304140141885001	VICODIN	9.75	4183.222652
	304140141885002	VICODIN	9.75	4183.222652
	304140141885003	VICODIN	9.75	4183.222652
	304140141885004	VICODIN	9.75	4183.222652
	304140141885005	VICODIN	9.75	4183.222652
304140141892	304140141892001	NAPROXEN	35.78	4183.222652
	304140141892002	NAPROXEN	35.78	4183.222652
	304140141892003	NAPROXEN	35.78	4183.222652
	304140141892004	NAPROXEN	35.78	4183.222652
	304140141892005	NAPROXEN	35.78	4183.222652
304140141905	304140141905001	ALBUTEROL	10.38	4183.222652
	304140141905002	ALBUTEROL	10.38	4183.222652
304140141912	304140141912001	GEN ROBITUSSIN	9.99	4183.222652
	304140141912002	GEN ROBITUSSIN	9.99	4183.222652
304140141929	304140141929001	FENTANYL PATCH	65.95	4183.222652

Sample SAS Job for Example A
 sample print of work.mvpmeds

PMED (HC-102A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
304140141929	304140141929002	FENTANYL PATCH	65.95	4183.222652
	304140141929003	FENTANYL PATCH	65.95	4183.222652
	304140141929004	FENTANYL PATCH	65.95	4183.222652
	304140141929005	FENTANYL PATCH	65.95	4183.222652
304140141936	304140141936001	HYDROCHLOROTHIAZIDE	8.00	4183.222652
	304140141936002	HYDROCHLOROTHIAZIDE	8.00	4183.222652
	304140141936003	HYDROCHLOROTHIAZIDE	8.00	4183.222652
	304140141936004	HYDROCHLOROTHIAZIDE	8.00	4183.222652
	304140141936005	HYDROCHLOROTHIAZIDE	8.00	4183.222652
304140141943	304140141943001	POTASSIUM	8.26	4183.222652
	304140141943002	POTASSIUM	8.26	4183.222652
	304140141943003	POTASSIUM	8.26	4183.222652
	304140141943004	POTASSIUM	8.26	4183.222652
	304140141943005	POTASSIUM	8.26	4183.222652
304140141950	304140141950001	CALCIUM	2.98	4183.222652
	304140141950002	CALCIUM	2.98	4183.222652
	304140141950003	CALCIUM	2.98	4183.222652
	304140141950004	CALCIUM	2.98	4183.222652
	304140141950005	CALCIUM	2.98	4183.222652
304140141967	304140141967001	BUMEX	54.01	4183.222652
	304140141967002	BUMEX	54.01	4183.222652
	304140141967003	BUMEX	54.01	4183.222652
	304140141967004	BUMEX	54.01	4183.222652
	304140141967005	BUMEX	54.01	4183.222652
304140141974	304140141974001	ASPIRIN	2.26	4183.222652
	304140141974002	ASPIRIN	2.26	4183.222652
	304140141974003	ASPIRIN	2.26	4183.222652
	304140141974004	ASPIRIN	2.26	4183.222652
	304140141974005	ASPIRIN	2.26	4183.222652
304140141981	304140141981001	OXYCONTIN	3.31	4183.222652
	304140141981002	OXYCONTIN	198.49	4183.222652
	304140141981003	OXYCONTIN	693.44	4183.222652
	304140141981004	OXYCONTIN	198.49	4183.222652
	304140141981005	OXYCONTIN	3.31	4183.222652
304140141998	304140141998001	LIPITOR	212.51	4183.222652
	304140141998002	LIPITOR	212.51	4183.222652
	304140141998003	LIPITOR	212.51	4183.222652
	304140141998004	LIPITOR	212.51	4183.222652
	304140141998005	LIPITOR	212.51	4183.222652
304140142004	304140142004001	ATENOLOL	6.30	4183.222652
	304140142004002	ATENOLOL	6.30	4183.222652

Sample SAS Job for Example A
 sample print of work.mvpmeds

PMED (HC-102A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
304140142004	304140142004003	ATENOLOL	6.30	4183.222652
	304140142004004	ATENOLOL	6.30	4183.222652
	304140142004005	ATENOLOL	6.30	4183.222652
304140142011	304140142011001	BENADRYL	3.71	4183.222652
	304140142011002	BENADRYL	3.71	4183.222652
304140142035	304140142035001	INDERAL LA	64.11	4183.222652
	304140142035002	INDERAL LA	64.11	4183.222652
	304140142035003	INDERAL LA	64.11	4183.222652
	304140142035004	INDERAL LA	64.11	4183.222652
	304140142035005	INDERAL LA	64.11	4183.222652
305110240177	305110240177001	LEVAQUIN	122.83	7058.848102
	305110240177002	LEVAQUIN	122.83	7058.848102
305110240184	305110240184001	NYSTATIN	131.31	7058.848102
305110240191	305110240191001	TUSSIONEX	26.93	7058.848102
305110240204	305110240204001	PREDNISONE	2.08	7058.848102
305110240211	305110240211001	ZYRTEC	63.10	7058.848102
305110240273	305110240273001	NEXIUM	45.00	7058.848102
	305110240273002	NEXIUM	45.00	7058.848102
305540110670	305540110670001	APAP/OXYCODONE	178.78	5433.128858
	305540110670002	APAP/OXYCODONE	214.16	5433.128858
	305540110670003	APAP/OXYCODONE	178.78	5433.128858
	305540110670004	APAP/OXYCODONE	214.16	5433.128858
	305540110670005	APAP/OXYCODONE	214.16	5433.128858
	305540110670006	APAP/OXYCODONE	214.16	5433.128858
305540110687	305540110687001	CORTANE-B	32.10	5433.128858
	305540110687002	CORTANE-B	38.17	5433.128858
	305540110687003	CORTANE-B	72.45	5433.128858
	305540110687004	CORTANE-B	115.26	5433.128858
305540110930	305540110930001	APAP/OXYCODONE	45.78	5433.128858
	305540110930002	APAP/OXYCODONE	178.78	5433.128858
	305540110930003	APAP/OXYCODONE	43.85	5433.128858
	305540110930004	APAP/OXYCODONE	45.78	5433.128858
	305540110930005	APAP/OXYCODONE	43.85	5433.128858
305540110954	305540110954001	PREVACID	138.00	5433.128858
	305540110954002	PREVACID	138.00	5433.128858
	305540110954003	PREVACID	138.00	5433.128858
	305540110954004	PREVACID	138.00	5433.128858

Sample SAS Job for Example A
 sample print of work.mvpmeds

PMED (HC-102A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
305540110954	305540110954005	PREVACID	138.00	5433.128858
305540110961	305540110961001	DIOVAN HCT (CAPLET)	122.26	5433.128858
	305540110961002	DIOVAN HCT (CAPLET)	122.26	5433.128858
	305540110961003	DIOVAN HCT (CAPLET)	122.26	5433.128858
	305540110961004	DIOVAN HCT (CAPLET)	122.26	5433.128858
	305540110961005	DIOVAN HCT (CAPLET)	122.26	5433.128858
305540110978	305540110978001	VERAPAMIL HCL (FILM-COATED)	17.24	5433.128858
	305540110978002	VERAPAMIL HCL (FILM-COATED)	17.24	5433.128858
	305540110978003	VERAPAMIL HCL (FILM-COATED)	17.24	5433.128858
	305540110978004	VERAPAMIL HCL (FILM-COATED)	17.24	5433.128858
	305540110978005	VERAPAMIL HCL (FILM-COATED)	17.24	5433.128858

Sample SAS Job for Example A

Total Rx expenditures associated with medical visits (excluding telephone) for asthma

The MEANS Procedure

Analysis Variable : RXXP06X SUM OF PAYMENTS RXSF06X-RXOU06X (IMPUTED)

N	Sum
6040	421540.16

Sample SAS Job for Example A

Total Rx expenditures associated with medical visits (excluding telephone) for asthma

Weighted

The MEANS Procedure

Analysis Variable : RXXP06X SUM OF PAYMENTS RXSF06X-RXOU06X(IMPUTED)

N	Sum
6040	3521652073

NOTE: Copyright (c) 2002-2003 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) 9.1 (TS1M3)
NOTE: This session is executing on the XP_PRO platform.

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:
real time 4.95 seconds
cpu time 1.17 seconds

NOTE: AUTOEXEC processing beginning; file is I:\WW3\APPLIC~1\SAS\FOUND~1.3\sas\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1  OPTIONS LS=132 PS=59;  
2  
3  TITLE1 "HC-102I";  
4  TITLE2 "Sample SAS Job for Example B";  
5  
6  LIBNAME IN "C:\Data";
```

NOTE: Libref IN was successfully assigned as follows:

```
Engine: V9  
Physical Name: C:\Data
```

```
7  
8  *****  
9  * Calculate the expenditures for prescribed medicines associated with asthma.  
10 *****;  
11 PROC FORMAT;  
12   VALUE EVENTYPE  
13     1 = "1 MVIS"  
14     2 = "2 OPAT"  
15     3 = "3 EROM"  
16     4 = "4 STAZ"  
17     5 = "5 DVIS"  
18     6 = "6 OMED"  
19     7 = "7 HVIS"  
20     8 = "8 PMED";
```

NOTE: Format EVENTYPE has been output.

```
21 RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):

```
real time 0.09 seconds  
cpu time 0.00 seconds
```

```
22  
23 *-----  
24 * Get condition records coded as asthma.  
25 *-----;  
26 DATA ASCONDS;  
27   SET IN.H104 (KEEP=CONDIDX CCCODEX);  
28   IF CCCODEX="128";  
29 RUN;
```

NOTE: There were 105166 observations read from the data set IN.H104.

NOTE: The data set WORK.ASCONDS has 1990 observations and 2 variables.

NOTE: DATA statement used (Total process time):

```
real time 0.26 seconds  
cpu time 0.09 seconds
```

```
30  
31 *-----  
32 * Get the events linked to each of the asthma condition records.  
33 *-----;  
34 PROC SORT DATA=ASCONDS; BY CONDIDX; RUN;
```

NOTE: There were 1990 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCONDS has 1990 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 0.04 seconds
cpu time 0.01 seconds

```
35  
36 proc print data=asconds (obs=50);  
37     title3 "sample print of work.asconds - sorted by condidx";  
38     title4 "COND (H104) records where cccodex=128";  
39 run;
```

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.11 seconds
cpu time 0.00 seconds

```
40  
41 PROC SORT DATA=IN.H102IF1 OUT=CLNK; BY CONDIDX; RUN;
```

NOTE: There were 350780 observations read from the data set IN.H102IF1.
NOTE: The data set WORK.CLNK has 350780 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 5.79 seconds
cpu time 1.10 seconds

```
42  
43 DATA ASCLNKS;  
44     MERGE CLNK (IN=INCLNK KEEP=CONDIDX EVNTIDX EVENTYPE)  
45             ASCONDS(IN=INASCND KEEP=CONDIDX);  
46     BY CONDIDX;  
47     IF INCLNK & INASCND;  
48 RUN;
```

NOTE: There were 350780 observations read from the data set WORK.CLNK.
NOTE: There were 1990 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7984 observations and 3 variables.
NOTE: DATA statement used (Total process time):
real time 1.59 seconds
cpu time 0.39 seconds

```
49  
50 proc print data=asclnks (obs=75);  
51     by condidx;  
52     id condidx;  
53     format eventype eventype.;  
54     title3 "sample print of work.asclnks - sorted by condidx";  
55     title4 "events linked to asthma condition records";  
56 run;
```

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.07 seconds
cpu time 0.00 seconds

```
57  
58 PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;
```

NOTE: There were 7984 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7984 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 0.03 seconds
cpu time 0.01 seconds

59

```
60 proc print data=asclnks (obs=50);
61   format eventype eventype.;
62   title3 "sample print of work.asclnks - sorted by evntidx";
63 run;
```

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

NOTE: PROCEDURE PRINT used (Total process time):

```
real time      0.01 seconds
cpu time       0.01 seconds
```

```
64
65 DATA ASCLNKS;
66   SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
67   BY EVNTIDX;
68   IF FIRST.EVNTIDX;
69 RUN;
```

NOTE: There were 7984 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 7978 observations and 2 variables.

NOTE: DATA statement used (Total process time):

```
real time      0.01 seconds
cpu time       0.01 seconds
```

```
70
71 proc print data=asclnks (obs=50);
72   format eventype eventype.;
73   title3 "sample print of unique evntidxs from work.asclnks";
74 run;
```

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

NOTE: PROCEDURE PRINT used (Total process time):

```
real time      0.01 seconds
cpu time       0.00 seconds
```

```
75
76 *-----
77 * Get PMED records linked to asthma condition records.
78 *-----;
79 PROC SORT DATA=IN.H102A OUT=PMED; BY LINKIDX; RUN;
```

NOTE: There were 341994 observations read from the data set IN.H102A.

NOTE: The data set WORK.PMED has 341994 observations and 13 variables.

NOTE: PROCEDURE SORT used (Total process time):

```
real time      24.48 seconds
cpu time       3.79 seconds
```

```
80
81 DATA ASPMEDS;
82   MERGE PMED (KEEP=LINKIDX RXRECIDX RXNAME RXXP06X PERWT06F)
83     ASCLNKS (IN=INASCLNK KEEP=EVNTIDX RENAME=(EVNTIDX=LINKIDX));
84   BY LINKIDX;
85   IF INASCLNK & PERWT06F>0;
86 RUN;
```

NOTE: There were 341994 observations read from the data set WORK.PMED.

NOTE: There were 7978 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASPMEDS has 11833 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```
real time      0.67 seconds
cpu time       0.48 seconds
```

```
87
88 proc print data=aspmeds (obs=300);
89   by linkidx;
90   id linkidx;
91   var rxrecidx rxname RXXP06X PERWT06F;
92   title3 "sample print of work.aspmeds";
```



```
93     title4 "PMED (HC-102A) records which link to condition records coded as asthma";
94     run;
```

NOTE: There were 300 observations read from the data set WORK.ASPMEDS.

NOTE: PROCEDURE PRINT used (Total process time):

```
real time      0.01 seconds
cpu time       0.01 seconds
```

```
95
96     PROC MEANS DATA=ASPMEDS N SUM;
97         VAR RXXP06X;
98         TITLE3 "Total Rx expenditures associated with asthma";
99     RUN;
```

NOTE: There were 11833 observations read from the data set WORK.ASPMEDS.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time      0.14 seconds
cpu time       0.03 seconds
```

```
100
101     PROC MEANS DATA=ASPMEDS N SUM;
102         VAR RXXP06X;
103         WEIGHT PERWT06F;
104         TITLE3 "Total Rx expenditures associated with asthma";
105         TITLE5 "Weighted";
106     RUN;
```

NOTE: There were 11833 observations read from the data set WORK.ASPMEDS.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time      0.03 seconds
cpu time       0.00 seconds
```

Sample SAS Job for Example B
 sample print of work.asconds - sorted by condidx
 COND (H104) records where cccodex=128

Obs	CCCODEX	CONDIDX
1	128	300180180093
2	128	300230580049
3	128	300400300014
4	128	300490270010
5	128	300600350034
6	128	300610290019
7	128	300680130051
8	128	300830210012
9	128	300910450025
10	128	301170420016
11	128	301320230021
12	128	301470290031
13	128	302050190018
14	128	302050330038
15	128	302050330050
16	128	302070200083
17	128	302170520040
18	128	302560570015
19	128	302740680016
20	128	302850140023
21	128	302920640046
22	128	302950160019
23	128	302950230018
24	128	302980530024
25	128	303290290060
26	128	303350230045
27	128	303510370015
28	128	303600490028
29	128	303670100066
30	128	303730200010
31	128	303760240088
32	128	303760240024
33	128	303780330060
34	128	303780400075
35	128	303930110039
36	128	304140140175
37	128	304220290013
38	128	304220360012
39	128	304250390016
40	128	304280150074
41	128	304540490089
42	128	304550430109
43	128	304570200013
44	128	304620150092
45	128	304620270080
46	128	304710110124
47	128	304740470017
48	128	304840230070
49	128	305110240030
50	128	305260250057

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

CONDIDX	EVNTIDX	EVENTYPE
300180180093	300180180418	8 PMED
	300180180521	8 PMED
	300180180610	1 MVIS
300230580049	300230580090	3 EROM
	300230580103	3 EROM
	300230580110	3 EROM
	300230580141	1 MVIS
	300230580158	8 PMED
300400300014	300400300031	3 EROM
	300400300048	8 PMED
	300400300055	8 PMED
	300400300062	8 PMED
300600350034	300600350206	1 MVIS
300610290019	300610290292	1 MVIS
	300610290305	1 MVIS
	300610290312	1 MVIS
	300610290336	8 PMED
	300610290350	8 PMED
	300610290367	8 PMED
	300610290374	8 PMED
	300610290398	8 PMED
	300610290418	1 MVIS
	300610290456	8 PMED
300680130051	300680130196	8 PMED
	300680130209	8 PMED
	300680130230	8 PMED
	300680130247	8 PMED
300910450025	300910450099	8 PMED
	300910450102	8 PMED
	300910450164	8 PMED
	300910450171	8 PMED
301170420016	301170420048	8 PMED
	301170420062	8 PMED
301320230021	301320230287	8 PMED
	301320230383	8 PMED
	301320230390	8 PMED
	301320230472	8 PMED
	301320230489	8 PMED
301470290031	301470290097	1 MVIS
	301470290100	1 MVIS

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

CONDIDX	EVNTIDX	EVENTTYPE
301470290031	301470290124	8 PMED
302050190018	302050190016	8 PMED
	302050190023	8 PMED
302050330038	302050330054	1 MVIS
	302050330078	3 EROM
	302050330092	8 PMED
	302050330112	8 PMED
302050330050	302050330085	8 PMED
302070200083	302070200148	8 PMED
	302070200155	8 PMED
302170520040	302170520033	8 PMED
302560570015	302560570125	8 PMED
302920640046	302920640123	1 MVIS
	302920640130	8 PMED
	302920640147	8 PMED
302950230018	302950230057	8 PMED
	302950230115	8 PMED
303290290060	303290290117	8 PMED
	303290290148	8 PMED
303350230045	303350230445	8 PMED
	303350230558	8 PMED
	303350230572	1 MVIS
	303350230589	1 MVIS
	303350230596	1 MVIS
	303350230623	8 PMED
	303350230630	8 PMED
	303350230661	8 PMED
	303350230678	8 PMED
	303350230705	8 PMED
	303350230729	8 PMED
	303350230801	8 PMED
	303350230825	8 PMED
	303350230849	8 PMED
303510370015	303510370359	8 PMED
	303510370366	8 PMED

Sample SAS Job for Example B
 sample print of work.asclinks - sorted by evtntidx

Obs	EVNTIDX	EVENTYPE	CONDIDX
1	300180180418	8 PMED	300180180093
2	300180180521	8 PMED	300180180093
3	300180180610	1 MVIS	300180180093
4	300230580090	3 EROM	300230580049
5	300230580103	3 EROM	300230580049
6	300230580110	3 EROM	300230580049
7	300230580141	1 MVIS	300230580049
8	300230580158	8 PMED	300230580049
9	300400300031	3 EROM	300400300014
10	300400300048	8 PMED	300400300014
11	300400300055	8 PMED	300400300014
12	300400300062	8 PMED	300400300014
13	300600350206	1 MVIS	300600350034
14	300610290292	1 MVIS	300610290019
15	300610290305	1 MVIS	300610290019
16	300610290312	1 MVIS	300610290019
17	300610290336	8 PMED	300610290019
18	300610290350	8 PMED	300610290019
19	300610290367	8 PMED	300610290019
20	300610290374	8 PMED	300610290019
21	300610290398	8 PMED	300610290019
22	300610290418	1 MVIS	300610290019
23	300610290456	8 PMED	300610290019
24	300680130196	8 PMED	300680130051
25	300680130209	8 PMED	300680130051
26	300680130230	8 PMED	300680130051
27	300680130247	8 PMED	300680130051
28	300910450099	8 PMED	300910450025
29	300910450102	8 PMED	300910450025
30	300910450164	8 PMED	300910450025
31	300910450171	8 PMED	300910450025
32	301170420048	8 PMED	301170420016
33	301170420062	8 PMED	301170420016
34	301320230287	8 PMED	301320230021
35	301320230383	8 PMED	301320230021
36	301320230390	8 PMED	301320230021
37	301320230472	8 PMED	301320230021
38	301320230489	8 PMED	301320230021
39	301470290097	1 MVIS	301470290031
40	301470290100	1 MVIS	301470290031
41	301470290124	8 PMED	301470290031
42	302050190016	8 PMED	302050190018
43	302050190023	8 PMED	302050190018
44	302050330054	1 MVIS	302050330038
45	302050330078	3 EROM	302050330038
46	302050330085	8 PMED	302050330050
47	302050330092	8 PMED	302050330038
48	302050330112	8 PMED	302050330038
49	302070200148	8 PMED	302070200083
50	302070200155	8 PMED	302070200083

Sample SAS Job for Example B
sample print of unique evntidxs from work.asclnks

Obs	EVNTIDX	EVENTYPE
1	300180180418	8 PMED
2	300180180521	8 PMED
3	300180180610	1 MVIS
4	300230580090	3 EROM
5	300230580103	3 EROM
6	300230580110	3 EROM
7	300230580141	1 MVIS
8	300230580158	8 PMED
9	300400300031	3 EROM
10	300400300048	8 PMED
11	300400300055	8 PMED
12	300400300062	8 PMED
13	300600350206	1 MVIS
14	300610290292	1 MVIS
15	300610290305	1 MVIS
16	300610290312	1 MVIS
17	300610290336	8 PMED
18	300610290350	8 PMED
19	300610290367	8 PMED
20	300610290374	8 PMED
21	300610290398	8 PMED
22	300610290418	1 MVIS
23	300610290456	8 PMED
24	300680130196	8 PMED
25	300680130209	8 PMED
26	300680130230	8 PMED
27	300680130247	8 PMED
28	300910450099	8 PMED
29	300910450102	8 PMED
30	300910450164	8 PMED
31	300910450171	8 PMED
32	301170420048	8 PMED
33	301170420062	8 PMED
34	301320230287	8 PMED
35	301320230383	8 PMED
36	301320230390	8 PMED
37	301320230472	8 PMED
38	301320230489	8 PMED
39	301470290097	1 MVIS
40	301470290100	1 MVIS
41	301470290124	8 PMED
42	302050190016	8 PMED
43	302050190023	8 PMED
44	302050330054	1 MVIS
45	302050330078	3 EROM
46	302050330085	8 PMED
47	302050330092	8 PMED
48	302050330112	8 PMED
49	302070200148	8 PMED
50	302070200155	8 PMED

Sample SAS Job for Example B
sample print of work.aspmeds

PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
300180180418	300180180418001	ALBUTEROL	40.35	12968.377500
300180180521	300180180521001	ALBUTEROL	40.35	12968.377500
	300180180521002	ALBUTEROL	40.35	12968.377500
	300180180521003	ALBUTEROL	40.35	12968.377500
	300180180521004	ALBUTEROL	40.35	12968.377500
	300180180521005	ALBUTEROL	40.35	12968.377500
	300180180521006	ALBUTEROL	40.35	12968.377500
300230580158	300230580158001	ALBUTEROL INHALER	20.29	4647.878284
300400300048	300400300048001	TYLENOL W/CODEINE	16.87	12833.583932
300400300055	300400300055001	ADVAIR	156.28	12833.583932
300400300062	300400300062001	ALBUTEROL INHALER	20.29	12833.583932
300610290336	300610290336001	ADVAIR DISKUS 500/50	221.50	15210.808650
300610290350	300610290350001	PREDNISONE	24.61	15210.808650
300610290367	300610290367001	LEVAQUIN (FILM-COATED)	149.65	15210.808650
	300610290367002	LEVAQUIN (FILM-COATED)	142.74	15210.808650
300610290374	300610290374001	VERAPAMIL HCL (WHITE)	20.53	15210.808650
300610290398	300610290398001	RANITIDINE HCL (USP, FILM-COATED)	5.66	15210.808650
300610290456	300610290456001	ADVAIR DISKUS 500/50	221.50	15210.808650
300680130196	300680130196001	ALBUTEROL	21.41	9848.748255
300680130209	300680130209001	NEBULIZER	77.38	9848.748255
300680130230	300680130230001	NEBULIZER	77.38	9848.748255
	300680130230002	NEBULIZER	77.38	9848.748255
300680130247	300680130247001	ALBUTEROL	21.41	9848.748255
300910450099	300910450099001	ADVAIR DISKUS 250/50	128.25	11450.817965
300910450102	300910450102001	ALBUTEROL INHALER	39.85	11450.817965
300910450164	300910450164001	ADVAIR DISKUS 250/50	156.99	11450.817965
300910450171	300910450171001	ALBUTEROL INHALER	39.85	11450.817965
301170420048	301170420048001	MONTELUKAST	20.99	5319.852372

Sample SAS Job for Example B
 sample print of work.aspmeds

PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
301170420062	301170420062001	MONTELUKAST	34.50	5319.852372
	301170420062002	MONTELUKAST	34.50	5319.852372
	301170420062003	MONTELUKAST	34.50	5319.852372
301320230287	301320230287001	ADVAIR DISKUS 500/50	40.00	11412.095230
301320230383	301320230383001	ALBUTEROL	58.00	11412.095230
	301320230383002	ALBUTEROL	58.00	11412.095230
	301320230383003	ALBUTEROL	58.00	11412.095230
	301320230383004	ALBUTEROL	58.00	11412.095230
	301320230383005	ALBUTEROL	58.00	11412.095230
	301320230383006	ALBUTEROL	58.00	11412.095230
301320230390	301320230390001	ADVAIR DISKUS 500/50	40.00	11412.095230
	301320230390002	ADVAIR DISKUS 500/50	50.00	11412.095230
	301320230390003	ADVAIR DISKUS 500/50	40.00	11412.095230
	301320230390004	ADVAIR DISKUS 500/50	50.00	11412.095230
	301320230390005	ADVAIR DISKUS 500/50	50.00	11412.095230
	301320230390006	ADVAIR DISKUS 500/50	50.00	11412.095230
301320230472	301320230472001	ALBUTEROL	58.00	11412.095230
	301320230472002	ALBUTEROL	58.00	11412.095230
	301320230472003	ALBUTEROL	58.00	11412.095230
	301320230472004	ALBUTEROL	58.00	11412.095230
	301320230472005	ALBUTEROL	58.00	11412.095230
301320230489	301320230489001	ADVAIR DISKUS 500/50	50.00	11412.095230
	301320230489002	ADVAIR DISKUS 500/50	50.00	11412.095230
	301320230489003	ADVAIR DISKUS 500/50	50.00	11412.095230
	301320230489004	ADVAIR DISKUS 500/50	40.00	11412.095230
	301320230489005	ADVAIR DISKUS 500/50	40.00	11412.095230
301470290124	301470290124001	BRETHINE	44.75	4964.901754
302050190016	302050190016001	SINGULAIR	268.62	4031.282387
302050190023	302050190023001	ADVAIR	60.00	4031.282387
302050330085	302050330085001	PULMICORT RESPULES (5X6)	300.88	4355.758139
302050330092	302050330092001	ALBUTEROL SULFATE (VIAL)	72.60	4355.758139
302050330112	302050330112001	SINGULAIR	93.18	4355.758139
302070200148	302070200148001	ALBUTEROL	42.82	10908.320492
302070200155	302070200155001	ADVAIR	60.00	10908.320492
302170520033	302170520033001	ALBUTEROL INHALER	20.00	5816.613473

Sample SAS Job for Example B
 sample print of work.aspmeds

PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
302560570125	302560570125001	ALBUTEROL INHALER	20.29	3765.112064
	302560570125002	ALBUTEROL INHALER	20.29	3765.112064
	302560570125003	ALBUTEROL INHALER	20.29	3765.112064
302920640130	302920640130001	ALBUTEROL SULFATE (VIAL)	25.58	1436.909526
302920640147	302920640147001	PULMICORT RESPULES (5X6)	304.70	1436.909526
302950230057	302950230057001	ALBUTEROL	22.21	1393.187889
302950230115	302950230115001	ALBUTEROL	20.00	1393.187889
	302950230115002	ALBUTEROL	20.00	1393.187889
303290290117	303290290117001	ALBUTEROL	21.41	10369.068910
	303290290117002	ALBUTEROL	21.41	10369.068910
	303290290117003	ALBUTEROL	21.41	10369.068910
	303290290117004	ALBUTEROL	21.41	10369.068910
	303290290117005	ALBUTEROL	21.41	10369.068910
	303290290117006	ALBUTEROL	21.41	10369.068910
	303290290117007	ALBUTEROL	21.41	10369.068910
	303290290117008	ALBUTEROL	21.41	10369.068910
303290290148	303290290148001	ALBUTEROL	21.41	10369.068910
	303290290148002	ALBUTEROL	21.41	10369.068910
303350230445	303350230445001	SINGULAIR	50.00	8363.548295
303350230558	303350230558001	METHYLPREDNISOLONE	8.66	8363.548295
303350230623	303350230623001	METHYLPREDNISOLONE	8.66	8363.548295
	303350230623002	METHYLPREDNISOLONE	8.66	8363.548295
303350230630	303350230630001	LEVAQUIN	122.83	8363.548295
303350230661	303350230661001	ZYRTEC-D	50.00	8363.548295
	303350230661002	ZYRTEC-D	50.00	8363.548295
303350230678	303350230678001	ACCOLATE	60.00	8363.548295
	303350230678002	ACCOLATE	60.00	8363.548295
303350230705	303350230705001	ADVAIR DISKUS	50.00	8363.548295
	303350230705002	ADVAIR DISKUS	50.00	8363.548295
303350230729	303350230729001	SINGULAIR	50.00	8363.548295
	303350230729002	SINGULAIR	50.00	8363.548295
303350230801	303350230801001	ACCOLATE	60.00	8363.548295
303350230825	303350230825001	ADVAIR	60.00	8363.548295

Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
303350230849	303350230849001	SINGULAIR	268.62	8363.548295
303510370359	303510370359001	ALLEGRA	63.33	28465.212955
303510370366	303510370366001	ACCOLATE	91.78	28465.212955
303510370373	303510370373001	ADVAIR 100/50	131.26	28465.212955
303510370506	303510370506001	ALLEGRA	63.33	28465.212955
	303510370506002	ALLEGRA	63.33	28465.212955
	303510370506003	ALLEGRA	63.33	28465.212955
	303510370506004	ALLEGRA	63.33	28465.212955
303510370513	303510370513001	ADVAIR 100/50	131.26	28465.212955
	303510370513002	ADVAIR 100/50	131.26	28465.212955
	303510370513003	ADVAIR 100/50	131.26	28465.212955
	303510370513004	ADVAIR 100/50	131.26	28465.212955
	303510370513005	ADVAIR 100/50	131.26	28465.212955
303510370520	303510370520001	ALBUTEROL	26.49	28465.212955
303600490508	303600490508001	SINGULAIR	101.59	12279.713756
303600490515	303600490515001	XOPENEX (PF)	206.87	12279.713756
303600490522	303600490522001	PULMICORT RESPULES (5X6)	292.41	12279.713756
303730200785	303730200785001	SINGULAIR	50.00	9373.619859
303760241004	303760241004001	PULMICORT RESPULES (5X6)	136.31	11627.747676
303760241326	303760241326001	PULMICORT RESPULES (5X6)	136.31	11627.747676
303760241333	303760241333001	ALBUTEROL SULFATE	7.05	11627.747676
303760241782	303760241782001	ALBUTEROL INHALER	39.85	11627.747676
303760241802	303760241802001	ALBUTEROL	8.20	11627.747676
	303760241802002	ALBUTEROL	8.20	11627.747676
303780330312	303780330312001	FLOVENT	134.00	15296.326798
303780330329	303780330329001	DUONEB	101.89	15296.326798
303780330425	303780330425001	PREDNISONE (PEPPERMINT-VANILLA)	26.41	15296.326798
	303780330425002	PREDNISONE (PEPPERMINT-VANILLA)	26.41	15296.326798
303780330449	303780330449001	RESPI-TANN (DYE-FREE,CHERRY)	55.65	15296.326798

Sample SAS Job for Example B
sample print of work.aspmeds

PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
303780330470	303780330470001	HISDEC	5.69	15296.326798
303780330494	303780330494001	FLOVENT	134.00	15296.326798
	303780330494002	FLOVENT	134.00	15296.326798
	303780330494003	FLOVENT	134.00	15296.326798
	303780330494004	FLOVENT	134.00	15296.326798
303780330507	303780330507001	SINGULAIR	92.12	15296.326798
	303780330507002	SINGULAIR	92.12	15296.326798
	303780330507003	SINGULAIR	92.12	15296.326798
	303780330507004	SINGULAIR	92.12	15296.326798
303780330514	303780330514001	DUONEB	101.89	15296.326798
	303780330514002	DUONEB	101.89	15296.326798
303780330545	303780330545001	FLOVENT	134.00	15296.326798
	303780330545002	FLOVENT	134.00	15296.326798
	303780330545003	FLOVENT	134.00	15296.326798
	303780330545004	FLOVENT	134.00	15296.326798
	303780330545005	FLOVENT	134.00	15296.326798
303780330552	303780330552001	SINGULAIR	92.12	15296.326798
	303780330552002	SINGULAIR	92.12	15296.326798
	303780330552003	SINGULAIR	92.12	15296.326798
	303780330552004	SINGULAIR	92.12	15296.326798
	303780330552005	SINGULAIR	92.12	15296.326798
303780400189	303780400189001	ALBUTEROL INHALER	20.29	10940.657155
	303780400189002	ALBUTEROL INHALER	20.29	10940.657155
303780400196	303780400196001	FLOVENT	134.00	10940.657155
	303780400196002	FLOVENT	134.00	10940.657155
303780400247	303780400247001	PREDNISONE (PEPPERMINT-VANILLA)	26.41	10940.657155
303780400254	303780400254001	SINGULAIR	93.76	10940.657155
303780400285	303780400285001	FLOVENT	134.00	10940.657155
	303780400285002	FLOVENT	134.00	10940.657155
	303780400285003	FLOVENT	134.00	10940.657155
	303780400285004	FLOVENT	134.00	10940.657155
303780400292	303780400292001	ALBUTEROL INHALER	20.29	10940.657155
	303780400292002	ALBUTEROL INHALER	20.29	10940.657155
303780400312	303780400312001	FLOVENT	134.00	10940.657155
	303780400312002	FLOVENT	134.00	10940.657155
	303780400312003	FLOVENT	134.00	10940.657155
	303780400312004	FLOVENT	134.00	10940.657155

Sample SAS Job for Example B
sample print of work.aspmeds

PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
303780400312	303780400312005	FLOVENT	134.00	10940.657155
303780400329	303780400329001	SINGULAIR	100.07	10940.657155
	303780400329002	SINGULAIR	93.76	10940.657155
	303780400329003	SINGULAIR	93.76	10940.657155
	303780400329004	SINGULAIR	100.07	10940.657155
	303780400329005	SINGULAIR	100.07	10940.657155
304140141905	304140141905001	ALBUTEROL	10.38	4183.222652
	304140141905002	ALBUTEROL	10.38	4183.222652
304220360161	304220360161001	ALBUTEROL	23.87	9512.286566
304220360178	304220360178001	FEXOFENADINE HCL (FILM-COATED)	70.00	9512.286566
304220360192	304220360192001	ADVAIR DISKUS 250/50	165.46	9512.286566
304220360205	304220360205001	ALBUTEROL INHALER	39.85	9512.286566
304220360250	304220360250001	ADVAIR DISKUS 250/50	165.46	9512.286566
304250390181	304250390181001	PROAIR HFA	36.72	9947.658537
304250390198	304250390198001	SINGULAIR	60.00	9947.658537
304250390201	304250390201001	ALBUTEROL	21.41	9947.658537
	304250390201002	ALBUTEROL	21.41	9947.658537
	304250390201003	ALBUTEROL	21.41	9947.658537
	304250390201004	ALBUTEROL	21.41	9947.658537
	304250390201005	ALBUTEROL	21.41	9947.658537
	304250390201006	ALBUTEROL	21.41	9947.658537
304250390270	304250390270001	PROAIR HFA	36.72	9947.658537
	304250390270002	PROAIR HFA	36.72	9947.658537
	304250390270003	PROAIR HFA	36.72	9947.658537
304280150803	304280150803001	UNIPHYL	76.67	2041.042916
304280150810	304280150810001	ACCOLATE	91.78	2041.042916
304540490171	304540490171001	SINGULAIR	115.00	7360.381187
	304540490171002	SINGULAIR	115.00	7360.381187
	304540490171003	SINGULAIR	115.00	7360.381187
304550430330	304550430330001	SINGULAIR	313.62	15036.548864
	304550430330002	SINGULAIR	313.62	15036.548864
304550430347	304550430347001	ZYRTEC	250.21	15036.548864
	304550430347002	ZYRTEC	250.21	15036.548864

Sample SAS Job for Example B
sample print of work.aspmeds

PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
304550430354	304550430354001	ALBUTEROL	10.08	15036.548864
	304550430354002	ALBUTEROL	10.08	15036.548864
304550430436	304550430436001	SINGULAIR	313.62	15036.548864
	304550430436002	SINGULAIR	313.62	15036.548864
304550430443	304550430443001	FLOVENT HFA	75.39	15036.548864
304550430450	304550430450001	ZYRTEC	250.21	15036.548864
304550430467	304550430467001	ALBUTEROL	13.30	15036.548864
	304550430467002	ALBUTEROL	13.30	15036.548864
304570200190	304570200190001	ALBUTEROL	29.79	11350.343698
	304570200190002	ALBUTEROL	29.79	11350.343698
	304570200190003	ALBUTEROL	29.79	11350.343698
304620270136	304620270136001	ALBUTEROL INHALER	20.29	2468.223760
	304620270136002	ALBUTEROL INHALER	20.29	2468.223760
	304620270136003	ALBUTEROL INHALER	20.29	2468.223760
304710110277	304710110277001	ADVAIR DISKUS 250/50	167.16	21312.814106
	304710110277002	ADVAIR DISKUS 250/50	167.16	21312.814106
	304710110277003	ADVAIR DISKUS 250/50	167.16	21312.814106
	304710110277004	ADVAIR DISKUS 250/50	167.16	21312.814106
304710110284	304710110284001	ALBUTEROL INHALER	20.29	21312.814106
304840230176	304840230176001	ALBUTEROL INHALER	39.85	9631.606717
304840230183	304840230183001	BANOPHEN	13.60	9631.606717
305110240177	305110240177001	LEVAQUIN	122.83	7058.848102
	305110240177002	LEVAQUIN	122.83	7058.848102
305110240184	305110240184001	NYSTATIN	131.31	7058.848102
305110240191	305110240191001	TUSSIONEX	26.93	7058.848102
305110240204	305110240204001	PREDNISONE	2.08	7058.848102
305110240211	305110240211001	ZYRTEC	63.10	7058.848102
305110240228	305110240228001	NITROFURANTOIN MONOHYDRATE/MACROCRY	17.72	7058.848102
305110240273	305110240273001	NEXIUM	45.00	7058.848102
	305110240273002	NEXIUM	45.00	7058.848102
305350110091	305350110091001	XOPENEX (PF)	193.05	21980.022493

Sample SAS Job for Example B
sample print of work.aspmeds

PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
305460360485	305460360485001	ALBUTEROL	12.00	880.195850
305490400160	305490400160001	SINGULAIR	96.46	2498.826598
	305490400160002	SINGULAIR	96.46	2498.826598
	305490400160003	SINGULAIR	96.46	2498.826598
305490400177	305490400177001	ADVAIR 250/50	156.72	2498.826598
	305490400177002	ADVAIR 250/50	156.72	2498.826598
305540110581	305540110581001	ALBUTEROL	9.14	5433.128858
305540110721	305540110721001	SINGULAIR (UNIT OF USE)	94.64	5433.128858
	305540110721002	SINGULAIR (UNIT OF USE)	94.62	5433.128858
	305540110721003	SINGULAIR (UNIT OF USE)	94.64	5433.128858
	305540110721004	SINGULAIR (UNIT OF USE)	94.62	5433.128858
	305540110721005	SINGULAIR (UNIT OF USE)	94.62	5433.128858
	305540110721006	SINGULAIR (UNIT OF USE)	99.26	5433.128858
305540110776	305540110776001	ALBUTEROL	9.14	5433.128858
	305540110776002	ALBUTEROL	9.15	5433.128858
	305540110776003	ALBUTEROL	9.15	5433.128858
	305540110776004	ALBUTEROL	9.15	5433.128858
	305540110776005	ALBUTEROL	9.15	5433.128858
	305540110776006	ALBUTEROL	9.15	5433.128858
	305540110776007	ALBUTEROL	9.15	5433.128858
	305540110776008	ALBUTEROL	9.85	5433.128858
	305540110776009	ALBUTEROL	9.14	5433.128858
	305540110776010	ALBUTEROL	9.14	5433.128858
	305540110776011	ALBUTEROL	9.85	5433.128858
	305540110776012	ALBUTEROL	9.85	5433.128858
305540110783	305540110783001	ADV AIR DISKUS 500/50	228.88	5433.128858
	305540110783002	ADV AIR DISKUS 500/50	228.88	5433.128858
	305540110783003	ADV AIR DISKUS 500/50	228.88	5433.128858
	305540110783004	ADV AIR DISKUS 500/50	231.64	5433.128858
	305540110783005	ADV AIR DISKUS 500/50	231.64	5433.128858
	305540110783006	ADV AIR DISKUS 500/50	231.64	5433.128858
305540110947	305540110947001	SINGULAIR (UNIT OF USE)	94.62	5433.128858
	305540110947002	SINGULAIR (UNIT OF USE)	94.62	5433.128858
	305540110947003	SINGULAIR (UNIT OF USE)	94.62	5433.128858
	305540110947004	SINGULAIR (UNIT OF USE)	94.62	5433.128858
	305540110947005	SINGULAIR (UNIT OF USE)	94.62	5433.128858
305540110992	305540110992001	ALBUTEROL	20.29	5433.128858
	305540110992002	ALBUTEROL	20.29	5433.128858
	305540110992003	ALBUTEROL	20.29	5433.128858
	305540110992004	ALBUTEROL	20.29	5433.128858
	305540110992005	ALBUTEROL	20.29	5433.128858

Sample SAS Job for Example B
sample print of work.aspmeds

PMED (HC-102A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP06X	PERWT06F
305540111008	305540111008001	ADVAIR DISKUS 500/50	231.64	5433.128858
	305540111008002	ADVAIR DISKUS 500/50	231.64	5433.128858
	305540111008003	ADVAIR DISKUS 500/50	231.64	5433.128858
	305540111008004	ADVAIR DISKUS 500/50	231.64	5433.128858
	305540111008005	ADVAIR DISKUS 500/50	231.64	5433.128858
306360110037	306360110037001	AZITHROMYCIN	35.05	32183.001677
	306360110037002	AZITHROMYCIN	35.05	32183.001677
306360110044	306360110044001	BRONCHO SALINE	8.01	32183.001677
	306360110044002	BRONCHO SALINE	8.01	32183.001677
306460410116	306460410116001	ALBUTEROL	19.88	879.246999
	306460410116002	ALBUTEROL	19.88	879.246999
	306460410116003	ALBUTEROL	19.88	879.246999
	306460410116004	ALBUTEROL	19.88	879.246999
306460410123	306460410123001	FLOVENT	82.79	879.246999
	306460410123002	FLOVENT	82.79	879.246999
	306460410123003	FLOVENT	82.79	879.246999
	306460410123004	FLOVENT	82.79	879.246999
306460410130	306460410130001	NASONEX (SCENT-FREE MIST)	75.00	879.246999
	306460410130002	NASONEX (SCENT-FREE MIST)	75.00	879.246999
	306460410130003	NASONEX (SCENT-FREE MIST)	75.00	879.246999
	306460410130004	NASONEX (SCENT-FREE MIST)	75.00	879.246999
306460410154	306460410154001	ALBUTEROL	19.88	879.246999
	306460410154002	ALBUTEROL	19.88	879.246999
	306460410154003	ALBUTEROL	19.88	879.246999
	306460410154004	ALBUTEROL	19.88	879.246999
306460410161	306460410161001	FLOVENT	82.79	879.246999
	306460410161002	FLOVENT	82.79	879.246999
	306460410161003	FLOVENT	82.79	879.246999
306670130108	306670130108001	COMBIVENT	99.53	9908.423151
306670130115	306670130115001	ADVAIR 250/50	160.83	9908.423151
306670130153	306670130153001	COMBIVENT	99.53	9908.423151
	306670130153002	COMBIVENT	99.53	9908.423151
	306670130153003	COMBIVENT	99.53	9908.423151

Sample SAS Job for Example B
Total Rx expenditures associated with asthma

The MEANS Procedure

Analysis Variable : RXXP06X SUM OF PAYMENTS RXSF06X-RXOU06X (IMPUTED)

N	Sum
11833	950523.19

HC-102I

12:34 Wednesday, September 24, 2008 16

Sample SAS Job for Example B
Total Rx expenditures associated with asthma

Weighted

The MEANS Procedure

Analysis Variable : RXXP06X SUM OF PAYMENTS RXSF06X-RXOU06X(IMPUTED)

N	Sum
11833	8762417566

NOTE: Copyright (c) 2002-2003 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) 9.1 (TS1M3)
NOTE: This session is executing on the XP_PRO platform.

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:
real time 4.98 seconds
cpu time 1.15 seconds

NOTE: AUTOEXEC processing beginning; file is I:\WW3\APPLIC~1\SAS\FOUND~1.3\sas\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1  OPTIONS LS=132 PS=59;  
2  
3  TITLE1 "HC-102I";  
4  TITLE2 "Sample SAS Job for Example C";  
5  
6  LIBNAME IN "C:\Data";
```

NOTE: Libref IN was successfully assigned as follows:

```
Engine: V9  
Physical Name: C:\Data
```

```
7  
8  *****  
9  * Calculate the expenditures for medical visits associated with asthma.  
10 *****;  
11 PROC FORMAT;  
12   VALUE EVENTYPE  
13     1 = "1 MVIS"  
14     2 = "2 OPAT"  
15     3 = "3 EROM"  
16     4 = "4 STAZ"  
17     5 = "5 DVIS"  
18     6 = "6 OMED"  
19     7 = "7 HVIS"  
20     8 = "8 PMED";
```

NOTE: Format EVENTYPE has been output.

```
21 RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):

```
real time 0.07 seconds  
cpu time 0.00 seconds
```

```
22  
23 *-----  
24 * Get conditions records coded as asthma.  
25 *-----;  
26 DATA ASCONDS;  
27   SET IN.H104 (KEEP=CONDIDX CCCODEX);  
28   IF CCCODEX="128";  
29 RUN;
```

NOTE: There were 105166 observations read from the data set IN.H104.

NOTE: The data set WORK.ASCONDS has 1990 observations and 2 variables.

NOTE: DATA statement used (Total process time):

```
real time 1.07 seconds  
cpu time 0.17 seconds
```

```
30  
31 *-----  
32 * Get the events linked to each of the asthma condition records.  
33 *-----;  
34 PROC SORT DATA=ASCONDS; BY CONDIDX; RUN;
```

NOTE: There were 1990 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCONDS has 1990 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 0.04 seconds
cpu time 0.01 seconds

```
35  
36 proc print data=asconds (obs=50);  
37     title3 "sample print of work.asconds - sorted by condidx";  
38     title4 "COND (H104) records where cccodex=128";  
39 run;
```

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.12 seconds
cpu time 0.03 seconds

```
40  
41 PROC SORT DATA=IN.H102IF1 OUT=CLNK; BY CONDIDX; RUN;
```

NOTE: There were 350780 observations read from the data set IN.H102IF1.
NOTE: The data set WORK.CLNK has 350780 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 7.46 seconds
cpu time 1.07 seconds

```
42  
43 DATA ASCLNKS;  
44     MERGE CLNK (IN=INCLNK KEEP=CONDIDX EVNTIDX EVENTYPE)  
45             ASCONDS(IN=INASCND KEEP=CONDIDX);  
46     BY CONDIDX;  
47     IF INCLNK & INASCND;  
48 RUN;
```

NOTE: There were 350780 observations read from the data set WORK.CLNK.
NOTE: There were 1990 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7984 observations and 3 variables.
NOTE: DATA statement used (Total process time):
real time 1.84 seconds
cpu time 0.40 seconds

```
49  
50 proc print data=asclnks (obs=75);  
51     by condidx;  
52     id condidx;  
53     format eventype eventype.;  
54     title3 "sample print of work.asclnks - sorted by condidx";  
55     title4 "events linked to asthma condition records";  
56 run;
```

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.06 seconds
cpu time 0.01 seconds

```
57  
58 PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;
```

NOTE: There were 7984 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7984 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

59

```

60 proc print data=asclnks (obs=50);
61   format eventype eventype.;
62   title3 "sample print of work.asclnks - sorted by evntidx";
63 run;

```

```

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds

```

```

64
65 DATA ASCLNKS;
66   SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
67   BY EVNTIDX;
68   IF FIRST.EVNTIDX;
69 RUN;

```

```

NOTE: There were 7984 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7978 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time          0.03 seconds
      cpu time           0.03 seconds

```

```

70
71 proc print data=asclnks (obs=50);
72   format eventype eventype.;
73   title3 "sample print of unique evntidxs from work.asclnks";
74 run;

```

```

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

```

```

75
76 *-----
77 * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
78 *-----;
79 DATA MVIS;
80   SET IN.H102G (KEEP=EVNTIDX PERWT06F SEETLKPV OBXP06X);
81   IF PERWT06F > 0 & SEETLKPV NE 2;
82 RUN;

```

```

NOTE: There were 155502 observations read from the data set IN.H102G.
NOTE: The data set WORK.MVIS has 151007 observations and 4 variables.
NOTE: DATA statement used (Total process time):
      real time          1.64 seconds
      cpu time           0.45 seconds

```

```

83
84 PROC SORT DATA=MVIS; BY EVNTIDX; RUN;

```

```

NOTE: There were 151007 observations read from the data set WORK.MVIS.
NOTE: The data set WORK.MVIS has 151007 observations and 4 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.29 seconds
      cpu time           0.28 seconds

```

```

85
86 *-----
87 * Identify MVIS events which were for asthma.
88 *-----;
89 DATA ASMVIS;
90   MERGE ASCLNKS (IN=INASCLNK)
91     MVIS (IN=INMVIS);
92   BY EVNTIDX;
93   IF INASCLNK & INMVIS;

```

94 RUN;

NOTE: There were 7978 observations read from the data set WORK.ASCLNKS.

NOTE: There were 151007 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.ASMVIS has 2320 observations and 5 variables.

NOTE: DATA statement used (Total process time):

real time	0.21 seconds
cpu time	0.20 seconds

95

96 proc print data=asmvis (obs=50);

97 format eventype eventype.;

98 title3 "sample print of work.asmvis";

99 title4 "unique evtidxs from work.asclnks that are non-telephone MVIS (HC-102G) events";

100 run;

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

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.01 seconds
cpu time	0.00 seconds

101

102 PROC MEANS DATA=ASMVIS N SUM;

103 VAR OBXP06X;

104 TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";

105 RUN;

NOTE: There were 2320 observations read from the data set WORK.ASMVIS.

NOTE: PROCEDURE MEANS used (Total process time):

real time	0.10 seconds
cpu time	0.03 seconds

106

107 PROC MEANS DATA=ASMVIS N SUM;

108 VAR OBXP06X;

109 WEIGHT PERWT06F;

110 TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";

111 TITLE5 "Weighted";

112 RUN;

NOTE: There were 2320 observations read from the data set WORK.ASMVIS.

NOTE: PROCEDURE MEANS used (Total process time):

real time	0.03 seconds
cpu time	0.00 seconds

Sample SAS Job for Example C
 sample print of work.asconds - sorted by condidx
 COND (H104) records where cccodex=128

Obs	CCCODEX	CONDIDX
1	128	300180180093
2	128	300230580049
3	128	300400300014
4	128	300490270010
5	128	300600350034
6	128	300610290019
7	128	300680130051
8	128	300830210012
9	128	300910450025
10	128	301170420016
11	128	301320230021
12	128	301470290031
13	128	302050190018
14	128	302050330038
15	128	302050330050
16	128	302070200083
17	128	302170520040
18	128	302560570015
19	128	302740680016
20	128	302850140023
21	128	302920640046
22	128	302950160019
23	128	302950230018
24	128	302980530024
25	128	303290290060
26	128	303350230045
27	128	303510370015
28	128	303600490028
29	128	303670100066
30	128	303730200010
31	128	303760240088
32	128	303760240024
33	128	303780330060
34	128	303780400075
35	128	303930110039
36	128	304140140175
37	128	304220290013
38	128	304220360012
39	128	304250390016
40	128	304280150074
41	128	304540490089
42	128	304550430109
43	128	304570200013
44	128	304620150092
45	128	304620270080
46	128	304710110124
47	128	304740470017
48	128	304840230070
49	128	305110240030
50	128	305260250057

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

CONDIDX	EVNTIDX	EVENTYPE
300180180093	300180180418	8 PMED
	300180180521	8 PMED
	300180180610	1 MVIS
300230580049	300230580090	3 EROM
	300230580103	3 EROM
	300230580110	3 EROM
	300230580141	1 MVIS
	300230580158	8 PMED
300400300014	300400300031	3 EROM
	300400300048	8 PMED
	300400300055	8 PMED
	300400300062	8 PMED
300600350034	300600350206	1 MVIS
300610290019	300610290292	1 MVIS
	300610290305	1 MVIS
	300610290312	1 MVIS
	300610290336	8 PMED
	300610290350	8 PMED
	300610290367	8 PMED
	300610290374	8 PMED
	300610290398	8 PMED
	300610290418	1 MVIS
	300610290456	8 PMED
300680130051	300680130196	8 PMED
	300680130209	8 PMED
	300680130230	8 PMED
	300680130247	8 PMED
300910450025	300910450099	8 PMED
	300910450102	8 PMED
	300910450164	8 PMED
	300910450171	8 PMED
301170420016	301170420048	8 PMED
	301170420062	8 PMED
301320230021	301320230287	8 PMED
	301320230383	8 PMED
	301320230390	8 PMED
	301320230472	8 PMED
	301320230489	8 PMED
301470290031	301470290097	1 MVIS
	301470290100	1 MVIS

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

CONDIDX	EVNTIDX	EVENTTYPE
301470290031	301470290124	8 PMED
302050190018	302050190016	8 PMED
	302050190023	8 PMED
302050330038	302050330054	1 MVIS
	302050330078	3 EROM
	302050330092	8 PMED
	302050330112	8 PMED
302050330050	302050330085	8 PMED
302070200083	302070200148	8 PMED
	302070200155	8 PMED
302170520040	302170520033	8 PMED
302560570015	302560570125	8 PMED
302920640046	302920640123	1 MVIS
	302920640130	8 PMED
	302920640147	8 PMED
302950230018	302950230057	8 PMED
	302950230115	8 PMED
303290290060	303290290117	8 PMED
	303290290148	8 PMED
303350230045	303350230445	8 PMED
	303350230558	8 PMED
	303350230572	1 MVIS
	303350230589	1 MVIS
	303350230596	1 MVIS
	303350230623	8 PMED
	303350230630	8 PMED
	303350230661	8 PMED
	303350230678	8 PMED
	303350230705	8 PMED
	303350230729	8 PMED
	303350230801	8 PMED
	303350230825	8 PMED
	303350230849	8 PMED
303510370015	303510370359	8 PMED
	303510370366	8 PMED

Sample SAS Job for Example C
 sample print of work.asclinks - sorted by evtntidx

Obs	EVNTIDX	EVENTYPE	CONDIDX
1	300180180418	8 PMED	300180180093
2	300180180521	8 PMED	300180180093
3	300180180610	1 MVIS	300180180093
4	300230580090	3 EROM	300230580049
5	300230580103	3 EROM	300230580049
6	300230580110	3 EROM	300230580049
7	300230580141	1 MVIS	300230580049
8	300230580158	8 PMED	300230580049
9	300400300031	3 EROM	300400300014
10	300400300048	8 PMED	300400300014
11	300400300055	8 PMED	300400300014
12	300400300062	8 PMED	300400300014
13	300600350206	1 MVIS	300600350034
14	300610290292	1 MVIS	300610290019
15	300610290305	1 MVIS	300610290019
16	300610290312	1 MVIS	300610290019
17	300610290336	8 PMED	300610290019
18	300610290350	8 PMED	300610290019
19	300610290367	8 PMED	300610290019
20	300610290374	8 PMED	300610290019
21	300610290398	8 PMED	300610290019
22	300610290418	1 MVIS	300610290019
23	300610290456	8 PMED	300610290019
24	300680130196	8 PMED	300680130051
25	300680130209	8 PMED	300680130051
26	300680130230	8 PMED	300680130051
27	300680130247	8 PMED	300680130051
28	300910450099	8 PMED	300910450025
29	300910450102	8 PMED	300910450025
30	300910450164	8 PMED	300910450025
31	300910450171	8 PMED	300910450025
32	301170420048	8 PMED	301170420016
33	301170420062	8 PMED	301170420016
34	301320230287	8 PMED	301320230021
35	301320230383	8 PMED	301320230021
36	301320230390	8 PMED	301320230021
37	301320230472	8 PMED	301320230021
38	301320230489	8 PMED	301320230021
39	301470290097	1 MVIS	301470290031
40	301470290100	1 MVIS	301470290031
41	301470290124	8 PMED	301470290031
42	302050190016	8 PMED	302050190018
43	302050190023	8 PMED	302050190018
44	302050330054	1 MVIS	302050330038
45	302050330078	3 EROM	302050330038
46	302050330085	8 PMED	302050330050
47	302050330092	8 PMED	302050330038
48	302050330112	8 PMED	302050330038
49	302070200148	8 PMED	302070200083
50	302070200155	8 PMED	302070200083

Sample SAS Job for Example C
sample print of unique evntidxs from work.asclnks

Obs	EVNTIDX	EVENTYPE
1	300180180418	8 PMED
2	300180180521	8 PMED
3	300180180610	1 MVIS
4	300230580090	3 EROM
5	300230580103	3 EROM
6	300230580110	3 EROM
7	300230580141	1 MVIS
8	300230580158	8 PMED
9	300400300031	3 EROM
10	300400300048	8 PMED
11	300400300055	8 PMED
12	300400300062	8 PMED
13	300600350206	1 MVIS
14	300610290292	1 MVIS
15	300610290305	1 MVIS
16	300610290312	1 MVIS
17	300610290336	8 PMED
18	300610290350	8 PMED
19	300610290367	8 PMED
20	300610290374	8 PMED
21	300610290398	8 PMED
22	300610290418	1 MVIS
23	300610290456	8 PMED
24	300680130196	8 PMED
25	300680130209	8 PMED
26	300680130230	8 PMED
27	300680130247	8 PMED
28	300910450099	8 PMED
29	300910450102	8 PMED
30	300910450164	8 PMED
31	300910450171	8 PMED
32	301170420048	8 PMED
33	301170420062	8 PMED
34	301320230287	8 PMED
35	301320230383	8 PMED
36	301320230390	8 PMED
37	301320230472	8 PMED
38	301320230489	8 PMED
39	301470290097	1 MVIS
40	301470290100	1 MVIS
41	301470290124	8 PMED
42	302050190016	8 PMED
43	302050190023	8 PMED
44	302050330054	1 MVIS
45	302050330078	3 EROM
46	302050330085	8 PMED
47	302050330092	8 PMED
48	302050330112	8 PMED
49	302070200148	8 PMED
50	302070200155	8 PMED

Sample SAS Job for Example C

sample print of work.asmvis

unique evntidxs from work.asclnks that are non-telephone MVIS (HC-102G) events

Obs	EVNTIDX	EVENTYPE	SEETLKPV	OBP06X	PERWT06F
1	300180180610	1 MVIS	1	76.00	12968.38
2	300230580141	1 MVIS	1	80.33	4647.88
3	300600350206	1 MVIS	1	88.00	5451.83
4	300610290292	1 MVIS	1	71.43	15210.81
5	300610290305	1 MVIS	1	82.50	15210.81
6	300610290312	1 MVIS	1	38.63	15210.81
7	301470290097	1 MVIS	1	34.21	4964.90
8	301470290100	1 MVIS	1	32.23	4964.90
9	302050330054	1 MVIS	1	42.00	4355.76
10	302920640123	1 MVIS	1	71.97	1436.91
11	303350230572	1 MVIS	1	24.00	8363.55
12	303350230589	1 MVIS	1	83.00	8363.55
13	303670100336	1 MVIS	1	27.03	3728.65
14	303760240669	1 MVIS	1	55.00	11627.75
15	303760240683	1 MVIS	1	55.00	11627.75
16	303760240690	1 MVIS	1	89.00	11627.75
17	303760240703	1 MVIS	1	55.00	11627.75
18	303760240710	1 MVIS	1	106.00	11627.75
19	303760240734	1 MVIS	1	55.00	11627.75
20	303780330350	1 MVIS	1	40.70	15296.33
21	303780330367	1 MVIS	1	29.67	15296.33
22	303780330381	1 MVIS	1	567.11	15296.33
23	303780330398	1 MVIS	1	76.53	15296.33
24	303780330401	1 MVIS	1	264.70	15296.33
25	303780400158	1 MVIS	1	40.70	10940.66
26	303780400223	1 MVIS	1	55.38	10940.66
27	304140140813	1 MVIS	1	82.21	4183.22
28	304140140820	1 MVIS	1	0.00	4183.22
29	304140140837	1 MVIS	1	76.50	4183.22
30	304140140844	1 MVIS	1	0.00	4183.22
31	304140140851	1 MVIS	1	64.00	4183.22
32	304140140868	1 MVIS	1	55.63	4183.22
33	304140141501	1 MVIS	1	64.00	4183.22
34	304140141518	1 MVIS	1	100.17	4183.22
35	304140141525	1 MVIS	1	0.00	4183.22
36	304140141532	1 MVIS	1	55.63	4183.22
37	304140141549	1 MVIS	1	150.51	4183.22
38	304140141690	1 MVIS	1	7.23	4183.22
39	304140141703	1 MVIS	1	236.43	4183.22
40	304140141710	1 MVIS	1	0.00	4183.22
41	304140141727	1 MVIS	1	5.49	4183.22
42	304140141734	1 MVIS	1	182.02	4183.22
43	304140141741	1 MVIS	1	55.63	4183.22
44	304140141758	1 MVIS	1	0.00	4183.22
45	304140141765	1 MVIS	1	128.39	4183.22
46	304140141772	1 MVIS	1	64.00	4183.22
47	304140141789	1 MVIS	1	55.63	4183.22
48	304220360147	1 MVIS	1	112.38	9512.29
49	304250390218	1 MVIS	1	60.00	9947.66
50	304280150687	1 MVIS	1	81.58	2041.04

Sample SAS Job for Example C

Total medical visit expenditures (excluding telephone) associated with asthma

The MEANS Procedure

Analysis Variable : OBP06X SUM OF OBSF06X - OBOT06X (IMPUTED)

N	Sum
2320	257001.56

Sample SAS Job for Example C

Total medical visit expenditures (excluding telephone) associated with asthma

Weighted

The MEANS Procedure

Analysis Variable : OBP06X SUM OF OBSF06X - OBOT06X (IMPUTED)

N	Sum
2320	1993563032