MEPS HC-126I:
Appendix to MEPS 2009 Event Files
HC-126A - HC-126H

December 2011

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A. Data Use Agreement

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

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

1. No one is to use the data in this data set in any way except for statistical reporting and analysis; and

2. If the identity of any person or establishment should be discovered inadvertently, then (a) no use will be made of this knowledge, (b) the Director Office of Management AHRQ will be advised of this incident, (c) the information that would identify any individual or establishment will be safeguarded or destroyed, as requested by AHRQ, and (d) no one else will be informed of the discovered identity; and

3. No one will attempt to link this data set with individually identifiable records from any data sets other than the Medical Expenditure Panel Survey or the National Health Interview Survey.

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

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

B. Background

1.0 Household Component

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

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

The set of households selected for each panel of the MEPS HC is a subsample of households participating in the previous year's National Health Interview Survey (NHIS) conducted by the National Center for Health Statistics. The NHIS sampling frame provides a nationally representative sample of the U.S. civilian non-institutionalized population and reflects an oversample of blacks and Hispanics. In 2006, the NHIS implemented a new sample design, which included Asian persons in addition to households with black and Hispanic persons in the oversampling of minority populations. MEPS further oversamples additional policy relevant sub-groups such as 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. (MEPS HC) and Research Triangle Institute (MEPS MPC). Data sets and summary statistics are edited and published in accordance with the confidentiality provisions of the Public Health Service Act and the Privacy Act. The National Center for Health statistics (NCHS) provides consultation and technical assistance.

As soon as data collection and editing are completed, the MEPS survey data are released to the public in staged releases of summary reports, micro data files, and tables via the MEPS Web site: 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-126I, which is the Appendix to MEPS releases HC-126A through HC-126H. 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 is a PDF file of the condition-event frequency table. Note that, as of 2008, Table 2, a utilization and expenditures summary table, is no longer available.

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

> Data File Information
> Merging/Linking MEPS Data Files
> Crosswalk of Clinical Classification Codes to ICD-9-CM Codes
> Sample SAS Jobs for Linking

For more information on MEPS HC survey design see T. Ezzati-Rice, et al., 1998-2007 and S. Cohen, 1996. For information on the MEPS MPC design, see S. Cohen, 1998. These reports, along with a copy of the survey instruments used to collect the information on this file, are available on the MEPS Web site at the following address: 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 2009 event-level data files. File 1, the H126IF1 or CLNK file, is used for linking the MEPS conditions file with the MEPS event files; File 2, the H126IF2 or RXLK file, is used for linking the MEPS prescribed medicines event file with other MEPS event files.

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

2.1   Codebook Format

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

Identifier	Description
Name	Variable name (maximum of 8 characters)
Description	Variable descriptor (maximum 40 characters)
Format	Number of bytes
Type	Type of data: numeric (indicated by NUM) or character (indicated by CHAR)
Start	Beginning column position of variable in record
End	Ending column position of variable in record

2.2   Variable Naming and Source

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

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

File 1 (H126IF1) or the CLNK file, contains the variables needed to link each record on the MEPS 2009 conditions file, HC-128, with one or more records on the MEPS 2009 event files, HC-126A through HC-126H. 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 2009 Conditions file, HC-128. 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 2009 event files, HC-126B through HC-126H. (EVNTIDX is not included on the 2009 Prescribed Medicines event file, HC-126A; 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-126G
    2 = OPAT – outpatient department visit event contained on MEPS release HC-126F
    3 = EROM – emergency room visit event contained on MEPS release HC-126E
    4 = STAZ – inpatient hospital stay event contained on MEPS release HC-126D
    7 = HVIS – home health visit event contained on MEPS release HC-126H
    8 = PMED – prescribed medicines event contained on MEPS release HC-126A

PANEL is a constructed variable used to specify the panel number for the interview in which the condition was reported. PANEL will indicate either Panel 13 or Panel 14.

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

File 2 (H126IF2) or the RXLK file, contains the variables needed to link each record on the MEPS 2009 Prescribed Medicines file, HC-126A, with one or more records on the MEPS 2009 event files, HC-126B and HC-126D through HC-126G. 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 2009 event files, HC-126B through HC-126G. 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-126A 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-126A 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-126G
    2 = OPAT – outpatient department visit event contained on MEPS release HC-126F
    3 = EROM – emergency room visit event contained on MEPS release HC-126E
    4 = STAZ – inpatient hospital stay event contained on MEPS release HC-126D
    5 = DVIS – dental visit event contained on MEPS release HC-126B

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 <u>not</u> included in the Other Medical Expenses file because the expenditures have always been included

in the Prescribed Medicines file. As a consequence, there are no records in this file where the variable EVENTYPE = 6, the value used in 1996-2004 to identify OMED type of event record.

PANEL is a constructed variable used to specify the panel number for the interview in which the condition was reported. PANEL will indicate either Panel 13 or Panel 14.

2.5 2009 Condition-Event Frequency Table

Table 1 contains the MEPS 2009 Condition-Event Frequency table. This table contains unweighted and weighted counts of records on the MEPS 2009 event files, HC-126A through HC-126H, for each of the condition, procedure, and clinical classification codes contained on the MEPS 2009 Conditions file, HC-128. 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-128) and the Appendix to the Event Files (HC-126I) 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 2009 MEPS PUFs, these updates will not be reflected in the 2009 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-128 documentation.

3.0 Merging/Linking MEPS Data Files

This section provides information on using each of the two HC-126I files, RXLK and CLNK, to link with the files contained in MEPS releases HC-128 and HC-126A through HC-126H. 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-126IF1) and RXLK (HC-126IF2) Files with the Medical Conditions File (HC-128), the Prescribed Medicines and Office-Based Medical Provider Visits Event Files (HC-126A and HC-126G)

This example calculates the total expenditures for prescribed medicines associated with office-based medical provider visits for asthma, using these files: the conditions file (HC-128), the CLNK file (HC-126IF1), the office-based medical provider visit event file (HC-126G), the RXLK file (HC-126IF2), and the prescribed medicines event file (HC-126A). It includes the following major steps:

1. From HC-128 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-126G 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-126G 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-126A linked to those visits.

6. Using these record IDs, obtain the linked records from the HC-126A 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-126IF1) with the Medical Conditions File (HC-128) and the Prescribed Medicines Event File (HC-126A)

This example calculates the total expenditure for prescribed medicines associated with asthma, using the conditions file (HC-128), the CLNK file (HC-126IF1) and the prescribed medicines event file (HC-126A). It includes the following major steps:

1. From HC-128 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-126A 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-128) and Office-Based Medical Provider Visits Event File (HC-126G)

This example calculates the total expenditures for office-based medical provider visits associated with asthma, using the conditions file (HC-128), the CLNK file (HC-126IF1) and the office-based medical provider visits event file (HC-126G). It includes the following major steps:

1. From HC-128 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-126G 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-126G records, identify only those visits which were for asthma and calculate the weighted mean of the expenditure variable.

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

3.4   Limitations/Caveats of the CLNK File

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

3.5   Limitations/Caveats of the RXLK File

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

3.6   National Health Interview Survey

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

3.7   Using MEPS Data for Trend Analysis

MEPS began in 1996, and the utility of the survey for analyzing health care trends expands with each additional year of data. However, it is important to consider a variety of factors when examining trends over time using MEPS. Statistical significance tests should be conducted to assess the likelihood that observed trends may be attributable to sampling variation. The length of time being analyzed should also be considered. In particular, large shifts in survey estimates over short periods of time (e.g. from one year to the next) that are statistically significant should be interpreted with caution, unless they are attributable to known factors such as changes in public policy, economic conditions, or MEPS survey methodology. 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.

3.8 Longitudinal Analysis

For Panels 1 through 8, panel-specific files (called Longitudinal Weight Files) containing estimation variables to facilitate longitudinal analysis are available for downloading in the data section of the MEPS Web site. To create longitudinal files for these panels, it is necessary to link data from two subsequent annual files that contain data for the first and second years of the panel, respectively. Starting with Panel 9, it is not necessary to link files for longitudinal analysis because Longitudinal Data Files have been constructed and are available for downloading on the Web.

Attachment 1:

Clinical Classification Code to ICD-9-CM Code Crosswalk

Appendix A - Clinical Classification Software-DIAGNOSES (January 1980 through September 2009)

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

1   Tuberculosis

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

2   Septicemia (except in labor)

0031	0202	0223	0362	0380	0381	03810	03811	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
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

13   **Cancer of stomach**

1510	1511	1512	1513	1514	1515	1516	1518	1519	2302	V1004

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

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**

20000   20001   20002   20003   20004   20005   20006   20007   20008   20010   20011   20012
20013   20014   20015   20016   20017   20018   20020   20021   20022   20023   20024   20025
20026   20027   20028   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

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

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

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 |

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 |

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 |

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 |

124 **Acute and chronic tonsillitis**

| 463 | 4740 | 47400 | 47401 | 47402 | 47410 | 47411 | 47412 | 4742 | 4748 | 4749 | 475 |

125 **Acute bronchitis**

| 4660 | 4661 | 46611 | 46619 |

126 **Other upper respiratory infections**

0320	0321	0322	0323	0340	460	4610	4611	4612	4613	4618	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

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							

140 **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

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

146 **Diverticulosis and diverticulitis**

56200	56201	56202	56203	56210	56211	56212	56213

147 **Anal and rectal conditions**

5646	5650	5651	566	5690	5691	5692	56941	56942	56949

148 **Peritonitis and intestinal abscess**

03283	5670	5671	5672	56721	56722	56723	56729	56738	56739	5678	56781
56782	56789	5679	5695							

149 **Biliary tract disease**

57400	57401	57410	57411	57420	57421	57430	57431	57440	57441	57450	57451
57460	57461	57470	57471	57480	57481	57490	57491	5750	5751	57510	57511
57512	5752	5753	5754	5755	5756	5758	5759	5760	5761	5762	5763
5764	5765	5768	5769	7933							

150   **Liver disease; alcohol-related**

5710   5711   5712   5713

151   **Other liver diseases**

570   5715   5716   5718   5719   5720   5721   5722   5723   5724   5728   5730
5734   5738   5739   7824   7891   7895   7904   7905   7948   V427

152   **Pancreatic disorders (not diabetes)**

5770   5771   5772   5778   5779   5794

153   **Gastrointestinal hemorrhage**

4560   45620   5307   53082   53100   53101   53120   53121   53140   53141   53160   53161
53200   53201   53220   53221   53240   53241   53260   53261   53300   53301   53320   53321
53340   53341   53360   53361   53400   53401   53420   53421   53440   53441   53460   53461
5693   5780   5781   5789

154   **Noninfectious gastroenteritis**

5589

155   **Other gastrointestinal disorders**

5581   5582   5640   56400   56401   56402   56409   5641   5645   5647   5648   56481
56489   5649   5680   56881   56882   56889   5689   56981   56982   56983   56984   56985
56986   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 failure**

585   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

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

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

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

207   **Pathological fracture**

7331	73310	73311	73312	73313	73314	73315	73316	73319	73393	73394	73395

208   **Acquired foot deformities**

7271	734	7350	7351	7352	7353	7354	7355	7358	7359	73670	73671
73672	73673	73674	73675	73676	73679						

209   **Other acquired deformities**

71840	71841	71842	71843	71844	71845	71846	71847	71848	71849	73600	73601
73602	73603	73604	73605	73606	73607	73609	7361	73620	73621	73622	73629
73630	73631	73632	73639	73641	73642	7365	7366	73681	73689	7369	7370
73710	73711	73712	73719	73720	73721	73722	73729	73733	73734	73739	73740
73741	73742	73743	7378	7379	7380	7381	73810	73811	73812	73819	7382
7383	7384	7385	7386	7387	7388	7389					

210   **Systemic lupus erythematosus and connective tissue disorders**

7100	7101	7102	7103	7104	7108	7109

211   **Other connective tissue disease**

32752	56731	7105	725	7260	72610	72611	72612	72619	7262	72630	72631
72632	72633	72639	7264	7265	72660	72661	72662	72663	72664	72665	72669
72670	72671	72672	72673	72679	7268	72690	72691	72700	72701	72702	72703
72704	72705	72706	72709	7272	7273	72740	72741	72742	72743	72749	72750
72751	72759	72760	72761	72762	72763	72764	72765	72766	72767	72768	72769

72781	72782	72783	72789	7279	7280	72810	72811	72812	72813	72819	7282
7283	7284	7285	7286	72871	72879	72881	72882	72883	72884	72885	72886
72887	72888	72889	7289	7290	7291	7292	72930	72931	72939	7294	7295
7296	72981	72982	72989	7299	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

221 **Respiratory distress syndrome**

769

222 **Hemolytic jaundice and perinatal jaundice**

7730	7731	7732	7733	7734	7735	7740	7741	7742	77430	77431	77439
7744	7745	7746	7747								

223 **Birth trauma**

7670	7671	76711	76719	7672	7673	7674	7675	7676	7677	7678	7679

224 **Other perinatal conditions**

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

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	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   31534   31539   V401

Developmental disabilities
31501   31502   31509   31532   3155   3158

Intellectual disabilities
317   3180   3181   3182   319

Learning disorders
31500   3151   3152   3159   V400

Motor skill disorders
3154

655   **Disorders usually diagnosed in infancy, childhood, or adolescence**

Elimination disorders
3076   3077

Other disorders of infancy, childhood or adolescence
3073   30921   31323   31389   3139

Pervasive developmental disorders
29900   29901   29910   29911   29980   29981   29990   29991

Tic disorders
30720   30721   30722   30723

656   **Impulse control disorders, NEC**
31230   31231   31232   31233   31234   31235   31239

657   **Mood disorders**

Bipolar disorders
29600   29601   29602   29603   29604   29605   29606   29610   29611   29612   29613   29614
29615   29616   29640   29641   29642   29643   29644   29645   29646   29650   29651   29652
29653   29654   29655   29656   29660   29661   29662   29663   29664   29665   29666   2967
29680   29681   29682   29689   29690   29699

Depressive disorders
29383   29620   29621   29622   29623   29624   29625   29626   29630   29631   29632   29633
29634   29635   29636   3004   311

658   **Personality disorders**
3010   30110   30111   30112   30113   30120   30121   30122   3013   3014   30150   30151
30159   3016   3017   30181   30182   30183   30184   30189   3019

659   **Schizophrenia and other psychotic disorders**
29381   29382   29500   29501   29502   29503   29504   29505   29510   29511   29512   29513
29514   29515   29520   29521   29522   29523   29524   29525   29530   29531   29532   29533
29534   29535   29540   29541   29542   29543   29544   29545   29550   29551   29552   29553
29554   29555   29560   29561   29562   29563   29564   29565   29570   29571   29572   29573
29574   29575   29580   29581   29582   29583   29584   29585   29590   29591   29592   29593
29594   29595   2970   2971   2972   2973   2978   2979   2980   2981   2982   2983
2984   2988   2989

660   **Alcohol-related disorders**
2910   2911   2912   2913   2914   2915   2918   29181   29182   29189   2919
30300   30301   30302   30303   30390   30391   30392   30393   30500   30501   30502
30503   76071   9800

661   **Substance-related disorders**
2920   29211   29212   2922   29281   29282   29283   29284   29285   29289   2929   30400
30401   30402   30403   30410   30411   30412   30413   30420   30421   30422   30423   30430
30431   30432   30433   30440   30441   30442   30443   30450   30451   30452   30453   30460
30461   30462   30463   30470   30471   30472   30473   30480   30481   30482   30483   30490
30491   30492   30493   30520   30521   30522   30523   30530   30531   30532   30533   30540
30541   30542   30543   30550   30551   30552   30553   30560   30561   30562   30563   30570
30571   30572   30573   30580   30581   30582   30583   30590   30591   30592   30593   64830
64831   64832   64833   64834   65550   65551   65553   76072   76073   76075   7795   96500
96501   96502   96509   V6542

662   **Suicide and intentional self-inflicted injury**
V6284   E9500   E9501   E9502   E9503   E9504   E9505   E9506   E9507   E9508   E9509   E9510
E9511   E9518   E9520   E9521   E9528   E9529   E9530   E9531   E9538   E9539   E954   E9550
E9551   E9552   E9553   E9554   E9555   E9556   E9557   E9559   E956   E9570   E9571   E9572
E9579   E9580   E9581   E9582   E9583   E9584   E9585   E9586   E9587   E9588   E9589   E959

663   **Screening and history of mental health and substance abuse codes**

Mental health disorder related codes
33392 V110   V111   V112   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
7903   V113   V791

670   **Miscellaneous disorders**

Dissociative disorders
30012 30013 30014 30015 3006

Eating disorders
3071   30750 30751 30752 30753 30754 30759

Factitious disorders
30016 30019

Mental disorders due to general medical condition not elsewhere classified
29389 2939   3101

Other miscellaneous mental conditions
316   64840 64841 64842 64843 64844 V402   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

Attachment 2:

Sample SAS Jobs for Linking Example

```
NOTE: Copyright (c) 2002-2008 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software 9.2 (TS2M3)
NOTE: This session is executing on the XP_PRO  platform.


NOTE: SAS initialization used:
      real time           1.46 seconds
      cpu time            0.42 seconds


NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS92\SASFoundation\9.2\autoexec.sas.


NOTE: AUTOEXEC processing completed.

1          ods rtf file = 'c:\sampleA.rtf' bodytitle;
NOTE: Writing RTF Body file: c:\sampleA.rtf
2
3          ods noproctitle;
4
5          OPTIONS LS=132 PS=59;
6
7          TITLE1 "HC-126I";
8          TITLE2 "Sample SAS Job for Example A";
9
10         LIBNAME IN "C:\Data";
NOTE: Libref IN was successfully assigned as follows:
      Engine:        V9
      Physical Name: C:\Data
11
12         *****************************************************************************************************
13         * Calculate the expenditures for prescribed medicines associated with medical visits for asthma.
14         *****************************************************************************************************;
15
16         PROC FORMAT;
17           VALUE EVENTYPE
18              1 = "1 MVIS"
19              2 = "2 OPAT"
20              3 = "3 EROM"
21              4 = "4 STAZ"
22              5 = "5 DVIS"
23              6 = "6 OMED"
```

```
24              7 = "7 HVIS"
25              8 = "8 PMED";
NOTE: Format EVENTYPE has been output.
26
27         RUN;

NOTE: PROCEDURE FORMAT used (Total process time):
      real time            0.23 seconds
      cpu time             0.00 seconds


28
29         *------------------------------------------------------------------------------------
30         * Get condition records coded as asthma.
31         *-----------------------------------------------------------------------------------;
32         DATA ASCONDS;
33           SET IN.H128 (KEEP=CONDIDX CCCODEX);
34           IF CCCODEX="128";
35
36         RUN;

NOTE: There were 117342 observations read from the data set IN.H128.
NOTE: The data set WORK.ASCONDS has 2420 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time            5.40 seconds
      cpu time             0.10 seconds


37
38         *------------------------------------------------------------------------------------
39         * Get the events linked to each of the asthma condition records.
40         *-----------------------------------------------------------------------------------;
41         PROC SORT DATA=ASCONDS; BY CONDIDX; RUN;

NOTE: There were 2420 observations read from the data set WORK.ASCONDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCONDS has 2420 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time            0.15 seconds
      cpu time             0.01 seconds


42
43         proc print data=asconds (obs=50);
44           title3 "sample print of work.asconds - sorted by condidx";
45           title4 "COND (H128) records where cccodex=128";
46         run;

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
NOTE: The PROCEDURE PRINT printed page 1.
NOTE: PROCEDURE PRINT used (Total process time):
      real time            0.53 seconds
      cpu time             0.01 seconds


47
48         PROC SORT DATA=IN.H126IF1 OUT=CLNK; BY CONDIDX; RUN;
```

```
NOTE: There were 342044 observations read from the data set IN.H126IF1.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.CLNK has 342044 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           7.68 seconds
      cpu time            0.59 seconds


49
50         DATA ASCLNKS;
51           MERGE CLNK   (IN=INCLNK   KEEP=CONDIDX EVNTIDX EVENTYPE)
52                 ASCONDS(IN=INASCOND KEEP=CONDIDX);
53           BY CONDIDX;
54           IF INCLNK & INASCOND;
55         RUN;

NOTE: There were 342044 observations read from the data set WORK.CLNK.
NOTE: There were 2420 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7669 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time           1.09 seconds
      cpu time            0.07 seconds


56
57         proc print data=asclnks (obs=75);
58           by condidx;
59           id condidx;
60           format eventype eventype.;
61           title3 "sample print of work.asclnks - sorted by condidx";
62           title4 "events linked to asthma condition records";
63         run;

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed pages 2-3.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           1.84 seconds
      cpu time            0.01 seconds


64
65         PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;

NOTE: There were 7669 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 7669 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.01 seconds
      cpu time            0.00 seconds


66
67         proc print data=asclnks (obs=50);
68           format eventype eventype.;
69           title3 "sample print of work.asclnks - sorted by evntidx";
70         run;
```

```
NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed page 4.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.78 seconds
      cpu time            0.00 seconds


71
72          DATA ASCLNKS;
73            SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
74            BY EVNTIDX;
75            IF FIRST.EVNTIDX;
76          RUN;

NOTE: There were 7669 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7667 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


77
78          proc print data=asclnks (obs=50);
79            title3 "sample print of unique evntidxs from work.asclnks";
80            format eventype eventype.;
81          run;

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed page 5.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           1.06 seconds
      cpu time            0.03 seconds


82
83          *-------------------------------------------------------------------------------------------
84          * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
85          *------------------------------------------------------------------------------------------;
86          DATA MVIS;
87            SET IN.H126G (KEEP=EVNTIDX PERWT09F SEETLKPV);
88            IF PERWT09F > 0 & SEETLKPV NE 2;
89          RUN;

NOTE: There were 154599 observations read from the data set IN.H126G.
NOTE: The data set WORK.MVIS has 149890 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time          16.81 seconds
      cpu time            0.26 seconds


90
91          PROC SORT DATA=MVIS; BY EVNTIDX; RUN;

NOTE: There were 149890 observations read from the data set WORK.MVIS.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.MVIS has 149890 observations and 3 variables.
```

```
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.10 seconds
      cpu time            0.14 seconds


92
93           *---------------------------------------------------------------------------------------------
94           * Identify MVIS events which were for asthma.
95           *--------------------------------------------------------------------------------------------;
96           DATA ASMVIS;
97             MERGE ASCLNKS (IN=INASCLNK)
98                   MVIS    (IN=INMVIS KEEP=EVNTIDX);
99             BY EVNTIDX;
100            IF INASCLNK & INMVIS;
101          RUN;

NOTE: There were 7667 observations read from the data set WORK.ASCLNKS.
NOTE: There were 149890 observations read from the data set WORK.MVIS.
NOTE: The data set WORK.ASMVIS has 2286 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           0.07 seconds
      cpu time            0.03 seconds


102
103          proc print data=asmvis (obs=50);
104            format eventype eventype.;
105            title3 "sample print of work.asmvis";
106            title4 "unique evntidxs from work.asclnks that are non-telephone MVIS (HC-126G) events";
107          run;

NOTE: There were 50 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE PRINT printed page 6.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.03 seconds
      cpu time            0.00 seconds


108
109          *-------------------------------------------------------------------------------------
110          * Get PMED IDs linked to the MVIS events which were for asthma.
111          *------------------------------------------------------------------------------------;
112          PROC SORT DATA=IN.H126IF2 OUT=RXLK; BY EVNTIDX; RUN;

NOTE: There were 61487 observations read from the data set IN.H126IF2.
NOTE: SAS sort was used.
NOTE: The data set WORK.RXLK has 61487 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           1.12 seconds
      cpu time            0.14 seconds


113
114          proc print data=rxlk (obs=140);
115            by evntidx;
116            id evntidx;
117            var linkidx eventype;
```

```
118         format eventype eventype.;
119         title3 "sample print of work.rxlk - sorted by evntidx";
120         title4 "Rx+event link file records (HC-126IF2)";
121      run;

NOTE: There were 140 observations read from the data set WORK.RXLK.
NOTE: The PROCEDURE PRINT printed pages 7-11.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.07 seconds
      cpu time            0.00 seconds


122
123      DATA PMEDIDS;
124       MERGE RXLK  (IN=INRXLK KEEP=EVNTIDX LINKIDX EVENTYPE)
125             ASMVIS(IN=INASMVIS KEEP=EVNTIDX);
126       BY EVNTIDX;
127       IF INRXLK & INASMVIS;
128      RUN;

NOTE: There were 61487 observations read from the data set WORK.RXLK.
NOTE: There were 2286 observations read from the data set WORK.ASMVIS.
NOTE: The data set WORK.PMEDIDS has 2260 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time           0.03 seconds
      cpu time            0.03 seconds


129
130      proc print data=pmedids (obs=50);
131       by evntidx;
132       id evntidx;
133       format eventype eventype.;
134       title3 "sample print of work.pmedids - sorted by evntidx";
135       title4 "work.rxlk records for evntidxs in work.asmvis";
136      run;

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: The PROCEDURE PRINT printed pages 12-13.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.07 seconds
      cpu time            0.00 seconds


137
138      PROC SORT DATA=PMEDIDS; BY LINKIDX; RUN;

NOTE: There were 2260 observations read from the data set WORK.PMEDIDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.PMEDIDS has 2260 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


139
140      proc print data=pmedids (obs=50);
```

```
141          format eventype eventype.;
142          title3 "sample print of work.pmedids - sorted by linkidx";
143       run;

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: The PROCEDURE PRINT printed page 14.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.62 seconds
      cpu time            0.00 seconds


144
145       DATA PMEDIDS;
146         SET PMEDIDS (KEEP=LINKIDX);
147         BY LINKIDX;
148         IF FIRST.LINKIDX;
149       RUN;

NOTE: There were 2260 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.PMEDIDS has 2160 observations and 1 variables.
NOTE: DATA statement used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


150
151       proc print data=pmedids (obs=50);
152         title3 "sample print of unique linkidxs in work.pmedids";
153       run;

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: The PROCEDURE PRINT printed page 15.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


154
155       *------------------------------------------------------------------------------------
156       * Get PMED records linked to MVIS events which were for asthma.
157       *-------------------------------------------------------------------------------------;
158       PROC SORT DATA=IN.H126A OUT=PMED; BY LINKIDX; RUN;

NOTE: There were 333629 observations read from the data set IN.H126A.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.PMED has 333629 observations and 13 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           34.71 seconds
      cpu time            1.09 seconds


159
160       DATA MVPMEDS;
161         MERGE PMED (KEEP=LINKIDX RXRECIDX  RXXP09X PERWT09F RXNAME)
162               PMEDIDS (IN=A);
163         BY LINKIDX;
164         IF A;
```

```
165      RUN;

NOTE: There were 333629 observations read from the data set WORK.PMED.
NOTE: There were 2160 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.MVPMEDS has 5649 observations and 5 variables.
NOTE: DATA statement used (Total process time):
      real time           1.25 seconds
      cpu time            0.10 seconds


166
167      proc print data=mvpmeds (obs=200);
168        var rxrecidx rxname RXXP09X  PERWT09F;
169        by linkidx;
170        id linkidx;
171        title3 "sample print of work.mvpmeds";
172        title4 "PMED (HC-126A) records for unique linkidxs in work.pmedids";
173      run;

NOTE: There were 200 observations read from the data set WORK.MVPMEDS.
NOTE: The PROCEDURE PRINT printed pages 16-21.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.23 seconds
      cpu time            0.01 seconds


174
175        PROC MEANS DATA=MVPMEDS N SUM;
176          VAR RXXP09X;
177          TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";
178        RUN;

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 5649 observations read from the data set WORK.MVPMEDS.
NOTE: The PROCEDURE MEANS printed page 22.
NOTE: PROCEDURE MEANS used (Total process time):
      real time           2.46 seconds
      cpu time            0.03 seconds


179
180        PROC MEANS DATA=MVPMEDS  N SUM;
181          VAR RXXP09X;
182          WEIGHT PERWT09F;
183          TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";
184          TITLE5 "Weighted";
185        RUN;

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 5649 observations read from the data set WORK.MVPMEDS.
NOTE: The PROCEDURE MEANS printed page 23.
NOTE: PROCEDURE MEANS used (Total process time):
      real time           0.23 seconds
      cpu time            0.06 seconds


186
```

```
187      ods rtf close;
188


NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
NOTE: The SAS System used:
      real time               1:23.95
      cpu time                3.63 seconds
```

Sample SAS Job for Example A
sample print of work.asconds - sorted by condidx
COND (H128) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	400011010011	128
2	400011030011	128
3	400441010101	128
4	400501010021	128
5	400521010101	128
6	400841010091	128
7	400881020041	128
8	401051050011	128
9	401481020061	128
10	401601010041	128
11	401901010031	128
12	401911030011	128
13	402121010021	128
14	402121020011	128
15	402151010011	128
16	402151020041	128
17	402151030011	128
18	402271010011	128
19	402331020051	128
20	402361020011	128
21	402451030011	128
22	402841010081	128
23	403491040011	128
24	403601030011	128
25	403691020021	128
26	403691050021	128
27	403691060011	128
28	403701020061	128
29	403701020161	128
30	403751020061	128
31	403761020041	128
32	403831010041	128
33	403851020041	128
34	403881010081	128
35	403881020011	128
36	404001010031	128
37	404062010022	128
38	404122010032	128
39	404381030011	128
40	404401020041	128
41	404561010031	128
42	404581020011	128
43	404701010031	128
44	404891010031	128
45	405021050011	128
46	405021060011	128
47	405041010011	128
48	405191020011	128
49	405311040011	128
50	405391030011	128

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

CONDIDX	EVNTIDX	EVENTYPE
400011010011	400011010061	8 PMED
400011010011	400011010101	8 PMED
400011030011	400011030081	8 PMED
400441010101	400441010411	8 PMED
400501010021	400501010011	8 PMED
400501010021	400501010051	8 PMED
400501010021	400501010091	8 PMED
400501010021	400501010121	8 PMED
400521010101	400521010031	1 MVIS
400521010101	400521010041	1 MVIS
400521010101	400521010131	8 PMED
400881020041	400881020021	1 MVIS
400881020041	400881020031	1 MVIS
400881020041	400881020041	1 MVIS
400881020041	400881020051	8 PMED
400881020041	400881020061	8 PMED
400881020041	400881020071	8 PMED
400881020041	400881020081	8 PMED
400881020041	400881020091	1 MVIS
400881020041	400881020101	1 MVIS
400881020041	400881020111	8 PMED
401051050011	401051050011	8 PMED
401051050011	401051050031	8 PMED
401601010041	401601010281	8 PMED
401601010041	401601010311	8 PMED
401601010041	401601010321	1 MVIS
401601010041	401601010331	1 MVIS
401601010041	401601010341	1 MVIS
401601010041	401601010471	8 PMED
401911030011	401911030011	1 MVIS
401911030011	401911030021	1 MVIS
401911030011	401911030031	1 MVIS
401911030011	401911030041	1 MVIS
401911030011	401911030051	1 MVIS
401911030011	401911030091	8 PMED
401911030011	401911030131	1 MVIS
401911030011	401911030141	8 PMED
402121020011	402121020011	3 EROM
402121020011	402121020041	8 PMED
402121020011	402121020051	8 PMED
402121020011	402121020061	8 PMED
402151010011	402151010041	8 PMED
402151010011	402151010061	8 PMED
402151030011	402151030051	8 PMED
402331020051	402331020241	8 PMED
402361020011	402361020021	8 PMED
402841010081	402841010291	8 PMED
403491040011	403491040041	8 PMED
403491040011	403491040051	8 PMED
403491040011	403491040061	1 MVIS
403491040011	403491040091	8 PMED
403491040011	403491040111	8 PMED
403491040011	403491040121	8 PMED
403601030011	403601030111	8 PMED
403601030011	403601030121	8 PMED
403601030011	403601030131	8 PMED
403601030011	403601030141	8 PMED
403691020021	403691020041	1 MVIS
403691020021	403691020051	1 MVIS
403691020021	403691020061	1 MVIS
403691020021	403691020071	1 MVIS
403691020021	403691020081	1 MVIS
403691020021	403691020091	1 MVIS
403691020021	403691020101	1 MVIS
403691020021	403691020111	1 MVIS
403691050021	403691050041	1 MVIS
403691050021	403691050051	1 MVIS

CONDIDX	EVNTIDX	EVENTYPE
403691060011	403691060011	1 MVIS
403691060011	403691060041	8 PMED
403701020061	403701020141	8 PMED
403701020061	403701020161	8 PMED
403701020061	403701020291	8 PMED
403701020061	403701020311	8 PMED
403701020061	403701020351	8 PMED
403751020061	403751020111	8 PMED

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

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	400011010011	400011010061	8 PMED
2	400011010011	400011010101	8 PMED
3	400011030011	400011030081	8 PMED
4	400441010101	400441010411	8 PMED
5	400501010021	400501010011	8 PMED
6	400501010021	400501010051	8 PMED
7	400501010021	400501010091	8 PMED
8	400501010021	400501010121	8 PMED
9	400521010101	400521010031	1 MVIS
10	400521010101	400521010041	1 MVIS
11	400521010101	400521010131	8 PMED
12	400881020041	400881020021	1 MVIS
13	400881020041	400881020031	1 MVIS
14	400881020041	400881020041	1 MVIS
15	400881020041	400881020051	8 PMED
16	400881020041	400881020061	8 PMED
17	400881020041	400881020071	8 PMED
18	400881020041	400881020081	8 PMED
19	400881020041	400881020091	1 MVIS
20	400881020041	400881020101	1 MVIS
21	400881020041	400881020111	8 PMED
22	401051050011	401051050011	8 PMED
23	401051050011	401051050031	8 PMED
24	401601010041	401601010281	8 PMED
25	401601010041	401601010311	8 PMED
26	401601010041	401601010321	1 MVIS
27	401601010041	401601010331	1 MVIS
28	401601010041	401601010341	1 MVIS
29	401601010041	401601010471	8 PMED
30	401911030011	401911030011	1 MVIS
31	401911030011	401911030021	1 MVIS
32	401911030011	401911030031	1 MVIS
33	401911030011	401911030041	1 MVIS
34	401911030011	401911030051	1 MVIS
35	401911030011	401911030091	8 PMED
36	401911030011	401911030131	1 MVIS
37	401911030011	401911030141	8 PMED
38	402121020011	402121020011	3 EROM
39	402121020011	402121020041	8 PMED
40	402121020011	402121020051	8 PMED
41	402121020011	402121020061	8 PMED
42	402151010011	402151010041	8 PMED
43	402151010011	402151010061	8 PMED
44	402151030011	402151030051	8 PMED
45	402331020051	402331020241	8 PMED
46	402361020011	402361020021	8 PMED
47	402841010081	402841010291	8 PMED
48	403491040011	403491040041	8 PMED
49	403491040011	403491040051	8 PMED
50	403491040011	403491040061	1 MVIS

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

Obs	EVNTIDX	EVENTYPE
1	400011010061	8 PMED
2	400011010101	8 PMED
3	400011030081	8 PMED
4	400441010411	8 PMED
5	400501010011	8 PMED
6	400501010051	8 PMED
7	400501010091	8 PMED
8	400501010121	8 PMED
9	400521010031	1 MVIS
10	400521010041	1 MVIS
11	400521010131	8 PMED
12	400881020021	1 MVIS
13	400881020031	1 MVIS
14	400881020041	1 MVIS
15	400881020051	8 PMED
16	400881020061	8 PMED
17	400881020071	8 PMED
18	400881020081	8 PMED
19	400881020091	1 MVIS
20	400881020101	1 MVIS
21	400881020111	8 PMED
22	401051050011	8 PMED
23	401051050031	8 PMED
24	401601010281	8 PMED
25	401601010311	8 PMED
26	401601010321	1 MVIS
27	401601010331	1 MVIS
28	401601010341	1 MVIS
29	401601010471	8 PMED
30	401911030011	1 MVIS
31	401911030021	1 MVIS
32	401911030031	1 MVIS
33	401911030041	1 MVIS
34	401911030051	1 MVIS
35	401911030091	8 PMED
36	401911030131	1 MVIS
37	401911030141	8 PMED
38	402121020011	3 EROM
39	402121020041	8 PMED
40	402121020051	8 PMED
41	402121020061	8 PMED
42	402151010041	8 PMED
43	402151010061	8 PMED
44	402151030051	8 PMED
45	402331020241	8 PMED
46	402361020021	8 PMED
47	402841010291	8 PMED
48	403491040041	8 PMED
49	403491040051	8 PMED
50	403491040061	1 MVIS

HC-126I
Sample SAS Job for Example A
sample print of work.asmvis
unique evntidxs from work.asclnks that are non-telephone MVIS (HC-126G) events

Obs	EVNTIDX	EVENTYPE
1	400521010031	1 MVIS
2	400521010041	1 MVIS
3	400881020021	1 MVIS
4	400881020031	1 MVIS
5	400881020041	1 MVIS
6	400881020091	1 MVIS
7	400881020101	1 MVIS
8	401601010321	1 MVIS
9	401601010331	1 MVIS
10	401601010341	1 MVIS
11	401911030011	1 MVIS
12	401911030021	1 MVIS
13	401911030031	1 MVIS
14	401911030041	1 MVIS
15	401911030051	1 MVIS
16	401911030131	1 MVIS
17	403491040061	1 MVIS
18	403691020041	1 MVIS
19	403691020051	1 MVIS
20	403691020061	1 MVIS
21	403691020071	1 MVIS
22	403691020081	1 MVIS
23	403691020091	1 MVIS
24	403691020101	1 MVIS
25	403691020111	1 MVIS
26	403691050041	1 MVIS
27	403691050051	1 MVIS
28	403691060011	1 MVIS
29	403751020221	1 MVIS
30	403751020251	1 MVIS
31	403751020261	1 MVIS
32	403751020461	1 MVIS
33	403751020471	1 MVIS
34	403761020011	1 MVIS
35	403761020021	1 MVIS
36	403761020031	1 MVIS
37	403761020181	1 MVIS
38	403761020191	1 MVIS
39	403761020201	1 MVIS
40	403761020211	1 MVIS
41	403761020451	1 MVIS
42	404001010011	1 MVIS
43	404381030071	1 MVIS
44	404381030081	1 MVIS
45	404381030091	1 MVIS
46	404381030101	1 MVIS
47	404401020211	1 MVIS
48	404401020491	1 MVIS
49	404401020541	1 MVIS
50	404561010261	1 MVIS

HC-126I
Sample SAS Job for Example A
sample print of work.rxlk - sorted by evntidx
Rx+event link file records (HC-126IF2)

EVNTIDX	LINKIDX	EVENTYPE
400011010041	400011010051	1 MVIS
400011010071	400011010091	1 MVIS
400011020051	400011020061	1 MVIS
400011020101	400011020151	1 MVIS
400011020131	400011020161	1 MVIS
400011020131	400011020171	1 MVIS
400011030031	400011030071	1 MVIS
400011030091	400011030151	1 MVIS
400011030091	400011030161	1 MVIS
400011030111	400011030171	1 MVIS
400011030201	400011030251	1 MVIS
400011030231	400011030261	1 MVIS
400031010011	400031010021	5 DVIS
400051020011	400051020051	1 MVIS
400051020011	400051020061	1 MVIS
400051020011	400051020071	1 MVIS
400051020011	400051020081	1 MVIS
400061010011	400061010051	5 DVIS
400061010031	400061010061	1 MVIS
400061010031	400061010071	1 MVIS
400061010091	400061010101	1 MVIS
400061010091	400061010111	1 MVIS
400061020011	400061020041	5 DVIS
400061020021	400061020051	5 DVIS
400061020031	400061020061	1 MVIS
400061020031	400061020071	1 MVIS
400061020101	400061020111	1 MVIS
400061040051	400061040041	1 MVIS
400101010011	400101010071	1 MVIS
400101010091	400101010161	1 MVIS
400101020011	400101020061	4 STAZ
400101030011	400101030051	1 MVIS
400101030011	400101030061	1 MVIS
400101030011	400101030071	1 MVIS
400101030021	400101030051	1 MVIS
400101030031	400101030061	1 MVIS
400101030041	400101030061	1 MVIS
400101030081	400101030091	1 MVIS
400111020251	400111020281	1 MVIS
400121010011	400121010021	1 MVIS
400141010021	400141010031	1 MVIS
400141040011	400141040021	3 EROM
400151010011	400151010061	4 STAZ
400151020051	400151020071	1 MVIS
400151020051	400151020081	1 MVIS
400151020051	400151020091	1 MVIS
400151020061	400151020101	1 MVIS
400171010041	400171010091	1 MVIS
400171010081	400171010101	3 EROM
400171010081	400171010111	3 EROM
400171010081	400171010121	3 EROM
400171010141	400171010151	1 MVIS
400171020011	400171020041	1 MVIS
400171020021	400171020041	1 MVIS
400171020031	400171020041	1 MVIS
400171020051	400171020081	1 MVIS
400171030031	400171030061	1 MVIS
400171030071	400171030111	1 MVIS
400211010011	400211010061	3 EROM
400211010101	400211010121	1 MVIS
400211030031	400211030061	3 EROM
400211030041	400211030071	1 MVIS
400211030051	400211030081	1 MVIS
400211050021	400211050031	1 MVIS
400211060011	400211060051	1 MVIS
400211060071	400211060061	3 EROM
400211070011	400211070021	3 EROM

EVNTIDX	LINKIDX	EVENTYPE
400211070061	400211070081	1 MVIS
400211070061	400211070091	1 MVIS
400231010011	400231010041	3 EROM
400231010021	400231010041	4 STAZ
400231030091	400231030161	4 STAZ
400241010031	400241010071	1 MVIS
400241010031	400241010081	1 MVIS
400241010091	400241010131	1 MVIS
400241010091	400241010141	1 MVIS
400241010091	400241010151	1 MVIS
400241020021	400241020041	1 MVIS
400251010011	400251010021	2 OPAT
400251010011	400251010031	2 OPAT
400251010011	400251010041	2 OPAT
400281010121	400281010131	4 STAZ
400281050011	400281050021	1 MVIS
400281050031	400281050041	1 MVIS
400281060011	400281060021	1 MVIS
400281060011	400281060031	1 MVIS
400281060011	400281060041	1 MVIS
400281060051	400281060081	1 MVIS
400281060051	400281060101	1 MVIS
400281060071	400281060091	1 MVIS
400291010031	400291010051	1 MVIS
400291010041	400291010061	1 MVIS
400291030011	400291030041	1 MVIS
400291030021	400291030051	1 MVIS
400291030031	400291030061	1 MVIS
400291030071	400291030131	1 MVIS
400291040041	400291040081	1 MVIS
400291040051	400291040091	1 MVIS
400291040061	400291040101	1 MVIS
400311040011	400311040051	1 MVIS
400311040011	400311040061	1 MVIS
400311040021	400311040071	1 MVIS
400311040021	400311040081	1 MVIS
400311040021	400311040091	1 MVIS
400311040021	400311040101	1 MVIS
400311040021	400311040111	1 MVIS
400311040021	400311040121	1 MVIS
400311040021	400311040131	1 MVIS
400311040021	400311040141	1 MVIS
400311040021	400311040151	1 MVIS
400311040021	400311040161	1 MVIS
400311040021	400311040171	1 MVIS
400311040031	400311040181	1 MVIS
400311050021	400311050041	1 MVIS
400311050021	400311050051	1 MVIS
400311050021	400311050061	1 MVIS
400311050021	400311050071	1 MVIS
400311050021	400311050081	1 MVIS
400311050021	400311050091	1 MVIS
400311050021	400311050101	1 MVIS
400311050021	400311050111	1 MVIS
400351010031	400351010081	1 MVIS
400351010031	400351010091	1 MVIS
400361010011	400361010021	5 DVIS
400361010031	400361010061	5 DVIS
400361010031	400361010071	5 DVIS
400371010011	400371010021	4 STAZ
400371010011	400371010031	4 STAZ
400371010091	400371010131	1 MVIS
400371010091	400371010141	1 MVIS
400371010091	400371010151	1 MVIS
400371010091	400371010161	1 MVIS
400381010071	400381010111	1 MVIS
400381010071	400381010121	1 MVIS
400381010071	400381010131	1 MVIS
400381010141	400381010171	1 MVIS
400381010141	400381010181	1 MVIS
400391010041	400391010121	1 MVIS

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EVNTIDX	LINKIDX	EVENTYPE
400391010041	400391010131	1 MVIS
400391010151	400391010201	1 MVIS

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

EVNTIDX	LINKIDX	EVENTYPE
400881020021	400881020061	1 MVIS
400881020021	400881020071	1 MVIS
400881020021	400881020081	1 MVIS
400881020091	400881020111	1 MVIS
401601010321	401601010441	1 MVIS
401601010321	401601010451	1 MVIS
401601010321	401601010471	1 MVIS
401601010321	401601010491	1 MVIS
401911030131	401911030141	1 MVIS
401911030131	401911030151	1 MVIS
403691020041	403691020131	1 MVIS
403691020041	403691020141	1 MVIS
403691020101	403691020151	1 MVIS
403691020101	403691020161	1 MVIS
403691050041	403691050061	1 MVIS
403691050051	403691050071	1 MVIS
403691060011	403691060031	1 MVIS
403691060011	403691060041	1 MVIS
403761020011	403761020051	1 MVIS
403761020011	403761020061	1 MVIS
403761020011	403761020071	1 MVIS
403761020011	403761020081	1 MVIS
403761020011	403761020091	1 MVIS
403761020011	403761020101	1 MVIS
403761020011	403761020111	1 MVIS
403761020011	403761020121	1 MVIS
403761020011	403761020131	1 MVIS
403761020181	403761020261	1 MVIS
403761020181	403761020271	1 MVIS
403761020181	403761020281	1 MVIS
403761020181	403761020291	1 MVIS
403761020181	403761020301	1 MVIS
403761020181	403761020311	1 MVIS
403761020181	403761020321	1 MVIS
403761020181	403761020331	1 MVIS
403761020181	403761020341	1 MVIS
403761020181	403761020351	1 MVIS
403761020451	403761020541	1 MVIS
403761020451	403761020551	1 MVIS
403761020451	403761020561	1 MVIS
404001010011	404001010021	1 MVIS
405021050011	405021050051	1 MVIS
405021050011	405021050061	1 MVIS
405021050011	405021050071	1 MVIS
405021060011	405021060031	1 MVIS
405021060011	405021060041	1 MVIS
405021060011	405021060051	1 MVIS
405581010011	405581010031	1 MVIS
405581010011	405581010041	1 MVIS
405581010011	405581010051	1 MVIS

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

Obs	EVNTIDX	LINKIDX	EVENTYPE
1	400881020021	400881020061	1 MVIS
2	400881020021	400881020071	1 MVIS
3	400881020021	400881020081	1 MVIS
4	400881020091	400881020111	1 MVIS
5	401601010321	401601010441	1 MVIS
6	401601010321	401601010451	1 MVIS
7	401601010321	401601010471	1 MVIS
8	401601010321	401601010491	1 MVIS
9	401911030131	401911030141	1 MVIS
10	401911030131	401911030151	1 MVIS
11	403691020041	403691020131	1 MVIS
12	403691020041	403691020141	1 MVIS
13	403691020101	403691020151	1 MVIS
14	403691020101	403691020161	1 MVIS
15	403691050041	403691050061	1 MVIS
16	403691050051	403691050071	1 MVIS
17	403691060011	403691060031	1 MVIS
18	403691060011	403691060041	1 MVIS
19	403761020011	403761020051	1 MVIS
20	403761020011	403761020061	1 MVIS
21	403761020011	403761020071	1 MVIS
22	403761020011	403761020081	1 MVIS
23	403761020011	403761020091	1 MVIS
24	403761020011	403761020101	1 MVIS
25	403761020011	403761020111	1 MVIS
26	403761020011	403761020121	1 MVIS
27	403761020011	403761020131	1 MVIS
28	403761020181	403761020261	1 MVIS
29	403761020181	403761020271	1 MVIS
30	403761020181	403761020281	1 MVIS
31	403761020181	403761020291	1 MVIS
32	403761020181	403761020301	1 MVIS
33	403761020181	403761020311	1 MVIS
34	403761020181	403761020321	1 MVIS
35	403761020181	403761020331	1 MVIS
36	403761020181	403761020341	1 MVIS
37	403761020181	403761020351	1 MVIS
38	403761020451	403761020541	1 MVIS
39	403761020451	403761020551	1 MVIS
40	403761020451	403761020561	1 MVIS
41	404001010011	404001010021	1 MVIS
42	405021050011	405021050051	1 MVIS
43	405021050011	405021050061	1 MVIS
44	405021050011	405021050071	1 MVIS
45	405021060011	405021060031	1 MVIS
46	405021060011	405021060041	1 MVIS
47	405021060011	405021060051	1 MVIS
48	405581010011	405581010031	1 MVIS
49	405581010011	405581010041	1 MVIS
50	405581010011	405581010051	1 MVIS

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

Obs	LINKIDX
1	400881020061
2	400881020071
3	400881020081
4	400881020111
5	401601010441
6	401601010451
7	401601010471
8	401601010491
9	401911030141
10	401911030151
11	403691020131
12	403691020141
13	403691020151
14	403691020161
15	403691050061
16	403691050071
17	403691060031
18	403691060041
19	403761020051
20	403761020061
21	403761020071
22	403761020081
23	403761020091
24	403761020101
25	403761020111
26	403761020121
27	403761020131
28	403761020261
29	403761020271
30	403761020281
31	403761020291
32	403761020301
33	403761020311
34	403761020321
35	403761020331
36	403761020341
37	403761020351
38	403761020541
39	403761020551
40	403761020561
41	404001010021
42	405021050051
43	405021050061
44	405021050071
45	405021060031
46	405021060041
47	405021060051
48	405581010031
49	405581010041
50	405581010051

HC-126I
Sample SAS Job for Example A
sample print of work.mvpmeds
PMED (HC-126A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP09X	PERWT09F
400881020061	400881020061001	ACIPHEX	185.59	3579.012187
400881020061	400881020061002	ACIPHEX	185.59	3579.012187
400881020071	400881020071001	SYMBICORT	223.99	3579.012187
400881020071	400881020071002	SYMBICORT	248.69	3579.012187
400881020081	400881020081001	SPIRIVA HANDIHLR	175.00	3579.012187
400881020081	400881020081002	SPIRIVA HANDIHLR	175.00	3579.012187
400881020111	400881020111001	ACIPHEX	185.59	3579.012187
401601010441	401601010441001	METFORMIN HYDROCHLORIDE	12.39	2051.235697
401601010441	401601010441002	METFORMIN HYDROCHLORIDE	12.39	2051.235697
401601010441	401601010441003	METFORMIN HYDROCHLORIDE	12.39	2051.235697
401601010451	401601010451001	LEVOTHYROXINE SODIUM	15.44	2051.235697
401601010451	401601010451002	LEVOTHYROXINE SODIUM	15.44	2051.235697
401601010451	401601010451003	LEVOTHYROXINE SODIUM	15.44	2051.235697
401601010471	401601010471001	XOPENEX HFA	53.33	2051.235697
401601010491	401601010491001	HYDROCHLOROTHIAZIDE	8.65	2051.235697
401601010491	401601010491002	HYDROCHLOROTHIAZIDE	8.35	2051.235697
401601010491	401601010491003	HYDROCHLOROTHIAZIDE	8.35	2051.235697
401911030141	401911030141001	XOPENEX	91.00	5621.646638
401911030151	401911030151001	AMOXICILLIN	5.00	5621.646638
403691020131	403691020131001	PROVENTIL	81.55	8028.260022
403691020131	403691020131002	PROVENTIL	81.55	8028.260022
403691020131	403691020131003	PROVENTIL	81.55	8028.260022
403691020131	403691020131004	PROVENTIL	81.55	8028.260022
403691020131	403691020131005	PROVENTIL	81.55	8028.260022
403691020141	403691020141001	NASACORT AQ	89.74	8028.260022
403691020151	403691020151001	NASONEX	88.20	8028.260022
403691020151	403691020151002	NASONEX	88.20	8028.260022
403691020151	403691020151003	NASONEX	88.20	8028.260022
403691020151	403691020151004	NASONEX	88.20	8028.260022
403691020161	403691020161001	PROAIR HFA	36.93	8028.260022
403691020161	403691020161002	PROAIR HFA	36.93	8028.260022
403691020161	403691020161003	PROAIR HFA	36.93	8028.260022
403691020161	403691020161004	PROAIR HFA	36.93	8028.260022
403691020161	403691020161005	PROAIR HFA	37.15	8028.260022
403691020161	403691020161006	PROAIR HFA	37.15	8028.260022
403691050061	403691050061001	NUVARING	60.43	14473.972430
403691050061	403691050061002	NUVARING	60.43	14473.972430
403691050061	403691050061003	NUVARING	60.43	14473.972430
403691050061	403691050061004	NUVARING	60.43	14473.972430
403691050061	403691050061005	NUVARING	60.43	14473.972430
403691050061	403691050061006	NUVARING	60.43	14473.972430
403691050061	403691050061007	NUVARING	60.43	14473.972430
403691050061	403691050061008	NUVARING	60.43	14473.972430
403691050061	403691050061009	NUVARING	60.43	14473.972430
403691050061	403691050061010	NUVARING	60.43	14473.972430
403691050071	403691050071001	NASONEX	98.48	14473.972430
403691050071	403691050071002	NASONEX	98.48	14473.972430
403691050071	403691050071003	NASONEX	98.48	14473.972430
403691050071	403691050071004	NASONEX	98.48	14473.972430
403691060031	403691060031001	PROAIR HFA	37.11	12142.929000
403691060031	403691060031002	PROAIR HFA	37.11	12142.929000
403691060031	403691060031003	PROAIR HFA	37.11	12142.929000
403691060031	403691060031004	PROAIR HFA	37.11	12142.929000
403691060031	403691060031005	PROAIR HFA	37.11	12142.929000
403691060041	403691060041001	SYMBICORT	163.10	12142.929000
403691060041	403691060041002	SYMBICORT	163.10	12142.929000
403691060041	403691060041003	SYMBICORT	163.10	12142.929000
403761020051	403761020051001	ENALAPRIL MALEATE	29.99	10495.656139
403761020051	403761020051002	ENALAPRIL MALEATE	29.99	10495.656139
403761020051	403761020051003	ENALAPRIL MALEATE	29.99	10495.656139
403761020061	403761020061001	LOVASTATIN	195.99	10495.656139
403761020061	403761020061002	LOVASTATIN	195.99	10495.656139
403761020061	403761020061003	LOVASTATIN	69.99	10495.656139
403761020071	403761020071001	NEXIUM	195.99	10495.656139
403761020071	403761020071002	NEXIUM	195.99	10495.656139
403761020071	403761020071003	NEXIUM	195.99	10495.656139
403761020081	403761020081001	PREMARIN	66.99	10495.656139

LINKIDX	RXRECIDX	RXNAME	RXXP09X	PERWT09F
403761020081	403761020081002	PREMARIN	66.99	10495.656139
403761020081	403761020081003	PREMARIN	66.99	10495.656139
403761020091	403761020091001	PREVACID	192.99	10495.656139
403761020091	403761020091002	PREVACID	192.99	10495.656139
403761020101	403761020101001	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020101	403761020101002	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020101	403761020101003	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020111	403761020111001	CELEBREX	142.99	10495.656139
403761020111	403761020111002	CELEBREX	142.99	10495.656139
403761020111	403761020111003	CELEBREX	142.99	10495.656139
403761020121	403761020121001	FLUTICASONE PROPIONATE	25.66	10495.656139
403761020131	403761020131001	ADVAIR DISKUS	160.29	10495.656139
403761020261	403761020261001	ENALAPRIL MALEATE	29.99	10495.656139
403761020261	403761020261002	ENALAPRIL MALEATE	29.99	10495.656139
403761020261	403761020261003	ENALAPRIL MALEATE	29.99	10495.656139
403761020261	403761020261004	ENALAPRIL MALEATE	29.99	10495.656139
403761020261	403761020261005	ENALAPRIL MALEATE	29.99	10495.656139
403761020261	403761020261006	ENALAPRIL MALEATE	29.99	10495.656139
403761020271	403761020271001	LOVASTATIN	69.99	10495.656139
403761020271	403761020271002	LOVASTATIN	69.99	10495.656139
403761020271	403761020271003	LOVASTATIN	69.99	10495.656139
403761020271	403761020271004	LOVASTATIN	69.99	10495.656139
403761020271	403761020271005	LOVASTATIN	69.99	10495.656139
403761020271	403761020271006	LOVASTATIN	69.99	10495.656139
403761020281	403761020281001	NEXIUM	195.99	10495.656139
403761020281	403761020281002	NEXIUM	195.99	10495.656139
403761020281	403761020281003	NEXIUM	195.99	10495.656139
403761020281	403761020281004	NEXIUM	195.99	10495.656139
403761020281	403761020281005	NEXIUM	195.99	10495.656139
403761020281	403761020281006	NEXIUM	195.99	10495.656139
403761020291	403761020291001	PREMARIN	66.99	10495.656139
403761020291	403761020291002	PREMARIN	66.99	10495.656139
403761020291	403761020291003	PREMARIN	66.99	10495.656139
403761020291	403761020291004	PREMARIN	66.99	10495.656139
403761020291	403761020291005	PREMARIN	66.99	10495.656139
403761020291	403761020291006	PREMARIN	66.99	10495.656139
403761020301	403761020301001	PREVACID	192.99	10495.656139
403761020311	403761020311001	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020311	403761020311002	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020311	403761020311003	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020311	403761020311004	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020311	403761020311005	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020311	403761020311006	HYDROCHLOROTHIAZIDE	10.99	10495.656139
403761020321	403761020321001	CELEBREX	142.99	10495.656139
403761020321	403761020321002	CELEBREX	142.99	10495.656139
403761020321	403761020321003	CELEBREX	142.99	10495.656139
403761020321	403761020321004	CELEBREX	142.99	10495.656139
403761020321	403761020321005	CELEBREX	142.99	10495.656139
403761020321	403761020321006	CELEBREX	142.99	10495.656139
403761020331	403761020331001	FLUTICASONE PROPIONATE	25.66	10495.656139
403761020331	403761020331002	FLUTICASONE PROPIONATE	25.66	10495.656139
403761020331	403761020331003	FLUTICASONE PROPIONATE	25.66	10495.656139
403761020341	403761020341001	ADVAIR DISKUS	160.29	10495.656139
403761020341	403761020341002	ADVAIR DISKUS	160.29	10495.656139
403761020341	403761020341003	ADVAIR DISKUS	160.29	10495.656139
403761020351	403761020351001	PROVENTIL	3.00	10495.656139
403761020351	403761020351002	PROVENTIL	3.00	10495.656139
403761020351	403761020351003	PROVENTIL	3.00	10495.656139
403761020541	403761020541001	LOVASTATIN	36.72	10495.656139
403761020541	403761020541002	LOVASTATIN	36.72	10495.656139
403761020541	403761020541003	LOVASTATIN	36.72	10495.656139
403761020551	403761020551001	CELEBREX	116.16	10495.656139
403761020551	403761020551002	CELEBREX	116.16	10495.656139
403761020551	403761020551003	CELEBREX	116.16	10495.656139
403761020551	403761020551004	CELEBREX	116.16	10495.656139
403761020551	403761020551005	CELEBREX	116.16	10495.656139
403761020561	403761020561001	PREMARIN	51.52	10495.656139
403761020561	403761020561002	PREMARIN	51.52	10495.656139
403761020561	403761020561003	PREMARIN	51.52	10495.656139
404001010021	404001010021001	SYMBICORT	190.13	2642.389748
405021050051	405021050051001	TAMIFLU	138.66	6270.151842

LINKIDX	RXRECIDX	RXNAME	RXXP09X	PERWT09F
405021050061	405021050061001	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061002	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061003	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061004	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061005	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061006	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061007	VENTOLIN HFA	38.26	6270.151842
405021050071	405021050071001	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071002	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071003	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071004	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071005	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071006	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071007	ADVAIR DISKUS	213.29	6270.151842
405021060031	405021060031001	TAMIFLU	94.24	6386.244760
405021060041	405021060041001	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041002	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041003	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041004	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041005	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041006	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041007	VENTOLIN HFA	38.26	6386.244760
405021060051	405021060051001	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051002	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051003	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051004	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051005	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051006	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051007	FLOVENT HFA	100.63	6386.244760
405581010031	405581010031001	LIPITOR	106.24	8236.989502
405581010041	405581010041001	METFORMIN HYDROCHLORIDE	95.00	8236.989502
405581010051	405581010051001	PREDNISONE	9.89	8236.989502
405581010071	405581010071001	LIPITOR	106.24	8236.989502
405581010071	405581010071002	LIPITOR	106.24	8236.989502
405581010071	405581010071003	LIPITOR	106.24	8236.989502
405581010071	405581010071004	LIPITOR	106.24	8236.989502
405581010071	405581010071005	LIPITOR	106.24	8236.989502
405581010071	405581010071006	LIPITOR	106.24	8236.989502
405581010081	405581010081001	METFORMIN HYDROCHLORIDE	95.00	8236.989502
405581010081	405581010081002	METFORMIN HYDROCHLORIDE	95.00	8236.989502
405581010081	405581010081003	METFORMIN HYDROCHLORIDE	95.00	8236.989502
405581010081	405581010081004	METFORMIN HYDROCHLORIDE	95.00	8236.989502
405581010081	405581010081005	METFORMIN HYDROCHLORIDE	95.00	8236.989502
405581010081	405581010081006	METFORMIN HYDROCHLORIDE	95.00	8236.989502
405581010091	405581010091001	PREDNISONE	14.55	8236.989502
405911050091	405911050091001	SINGULAIR	128.99	7523.311904
405911050091	405911050091002	SINGULAIR	128.99	7523.311904
405911050091	405911050091003	SINGULAIR	128.99	7523.311904
405911050091	405911050091004	SINGULAIR	135.99	7523.311904
405911050091	405911050091005	SINGULAIR	135.99	7523.311904
405911050091	405911050091006	SINGULAIR	128.99	7523.311904
405911050091	405911050091007	SINGULAIR	128.99	7523.311904
405911050101	405911050101001	CLARITIN	7.00	7523.311904
405911050101	405911050101002	CLARITIN	7.00	7523.311904
405911050101	405911050101003	CLARITIN	7.00	7523.311904
405911050101	405911050101004	CLARITIN	7.00	7523.311904
405911050101	405911050101005	CLARITIN	7.00	7523.311904
405911050101	405911050101006	CLARITIN	7.00	7523.311904
405911050101	405911050101007	CLARITIN	7.00	7523.311904
405911050111	405911050111001	ADVAIR DISKUS	191.88	7523.311904
405911050111	405911050111002	ADVAIR DISKUS	191.88	7523.311904
405911050111	405911050111003	ADVAIR DISKUS	191.88	7523.311904

HC-126I
Sample SAS Job for Example A
Total Rx expenditures associated with medical visits (excluding telephone) for asthma

Analysis Variable: RXXP09X SUM OF PAYMENTS RXSF09X-RXOU09X(IMPUTED)

N	Sum
5649	496431.27

HC-126I
Sample SAS Job for Example A
Total Rx expenditures associated with medical visits (excluding telephone) for asthma

Weighted

Analysis Variable: RXXP09X SUM OF PAYMENTS RXSF09X-RXOU09X(IMPUTED)

N	Sum
5649	3473465099

```
NOTE: Copyright (c) 2002-2008 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software 9.2 (TS2M3)
NOTE: This session is executing on the XP_PRO  platform.




NOTE: SAS initialization used:
      real time             0.62 seconds
      cpu time              0.31 seconds


NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS92\SASFoundation\9.2\autoexec.sas.


NOTE: AUTOEXEC processing completed.

1           ods rtf file = 'c:\sampleB.rtf' bodytitle;
NOTE: Writing RTF Body file: c:\sampleB.rtf
2
3           ods noproctitle;
4
5           OPTIONS LS=132 PS=59;
6
7           TITLE1 "HC-126I";
8           TITLE2 "Sample SAS Job for Example B";
9
10          LIBNAME IN "C:\Data";
NOTE: Libref IN was successfully assigned as follows:
      Engine:        V9
      Physical Name: C:\Data
11
12          ********************************************************************************************
13          * Calculate the expenditures for prescribed medicines associated with asthma.
14          *******************************************************************************************;
15          PROC FORMAT;
16            VALUE EVENTYPE
17               1 = "1 MVIS"
18               2 = "2 OPAT"
19               3 = "3 EROM"
20               4 = "4 STAZ"
21               5 = "5 DVIS"
22               6 = "6 OMED"
23               7 = "7 HVIS"
```

```
24               8 = "8 PMED";
NOTE: Format EVENTYPE has been output.
25        RUN;

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


26
27        *------------------------------------------------------------------------------------
28        * Get condition records coded as asthma.
29        *-----------------------------------------------------------------------------------;
30        DATA ASCONDS;
31          SET IN.H128 (KEEP=CONDIDX CCCODEX);
32          IF CCCODEX="128";
33        RUN;

NOTE: There were 117342 observations read from the data set IN.H128.
NOTE: The data set WORK.ASCONDS has 2420 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           4.10 seconds
      cpu time            0.07 seconds


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

NOTE: There were 2420 observations read from the data set WORK.ASCONDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCONDS has 2420 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.03 seconds
      cpu time            0.00 seconds


39
40        proc print data=asconds (obs=50);
41          title3 "sample print of work.asconds - sorted by condidx";
42          title4 "COND (H128) records where cccodex=128";
43        run;

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
NOTE: The PROCEDURE PRINT printed page 1.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.06 seconds
      cpu time            0.03 seconds


44
45        PROC SORT DATA=IN.H126IF1 OUT=CLNK; BY CONDIDX; RUN;

NOTE: There were 342044 observations read from the data set IN.H126IF1.
NOTE: SAS threaded sort was used.
```

```
NOTE: The data set WORK.CLNK has 342044 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           12.60 seconds
      cpu time            0.51 seconds


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

NOTE: There were 342044 observations read from the data set WORK.CLNK.
NOTE: There were 2420 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7669 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time           1.00 seconds
      cpu time            0.07 seconds


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

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed pages 2-3.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.95 seconds
      cpu time            0.01 seconds


61
62          PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;

NOTE: There were 7669 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 7669 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed page 4.
```

```
NOTE: PROCEDURE PRINT used (Total process time):
      real time           1.07 seconds
      cpu time            0.00 seconds


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

NOTE: There were 7669 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7667 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed page 5.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.62 seconds
      cpu time            0.00 seconds


79
80          *------------------------------------------------------------------------------
81          * Get PMED records linked to asthma condition records.
82          *------------------------------------------------------------------------------;
83          PROC SORT DATA=IN.H126A OUT=PMED; BY LINKIDX; RUN;

NOTE: There were 333629 observations read from the data set IN.H126A.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.PMED has 333629 observations and 13 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time          26.26 seconds
      cpu time            1.12 seconds


84
85          DATA ASPMEDS;
86            MERGE PMED (KEEP=LINKIDX RXRECIDX RXNAME RXXP09X  PERWT09F)
87                  ASCLNKS (IN=INASCLNK KEEP=EVNTIDX RENAME=(EVNTIDX=LINKIDX));
88            BY LINKIDX;
89            IF INASCLNK & PERWT09F>0;
90          RUN;

NOTE: There were 333629 observations read from the data set WORK.PMED.
NOTE: There were 7667 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASPMEDS has 10436 observations and 5 variables.
```

```
NOTE: DATA statement used (Total process time):
      real time             0.12 seconds
      cpu time              0.12 seconds


91
92         proc print data=aspmeds (obs=300);
93           by linkidx;
94           id linkidx;
95           var rxrecidx rxname RXXP09X  PERWT09F;
96           title3 "sample print of work.aspmeds";
97           title4 "PMED (HC-126A) records which link to condition records coded as asthma";
98         run;

NOTE: There were 300 observations read from the data set WORK.ASPMEDS.
NOTE: The PROCEDURE PRINT printed pages 6-14.
NOTE: PROCEDURE PRINT used (Total process time):
      real time             0.95 seconds
      cpu time              0.03 seconds


99
100        PROC MEANS DATA=ASPMEDS N SUM;
101          VAR RXXP09X;
102          TITLE3 "Total Rx expenditures associated with asthma";
103        RUN;

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 10436 observations read from the data set WORK.ASPMEDS.
NOTE: The PROCEDURE MEANS printed page 15.
NOTE: PROCEDURE MEANS used (Total process time):
      real time             0.29 seconds
      cpu time              0.06 seconds


104
105        PROC MEANS DATA=ASPMEDS N SUM;
106          VAR RXXP09X;
107          WEIGHT PERWT09F;
108          TITLE3 "Total Rx expenditures associated with asthma";
109          TITLE5 "Weighted";
110        RUN;

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 10436 observations read from the data set WORK.ASPMEDS.
NOTE: The PROCEDURE MEANS printed page 16.
NOTE: PROCEDURE MEANS used (Total process time):
      real time             0.11 seconds
      cpu time              0.01 seconds


111
112        ods rtf close;
113

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
NOTE: The SAS System used:
      real time            49.76 seconds
      cpu time             2.68 seconds
```

Sample SAS Job for Example B
sample print of work.asconds - sorted by condidx
COND (H128) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	400011010011	128
2	400011030011	128
3	400441010101	128
4	400501010021	128
5	400521010101	128
6	400841010091	128
7	400881020041	128
8	401051050011	128
9	401481020061	128
10	401601010041	128
11	401901010031	128
12	401911030011	128
13	402121010021	128
14	402121020011	128
15	402151010011	128
16	402151020041	128
17	402151030011	128
18	402271010011	128
19	402331020051	128
20	402361020011	128
21	402451030011	128
22	402841010081	128
23	403491040011	128
24	403601030011	128
25	403691020021	128
26	403691050021	128
27	403691060011	128
28	403701020061	128
29	403701020161	128
30	403751020061	128
31	403761020041	128
32	403831010041	128
33	403851020041	128
34	403881010081	128
35	403881020011	128
36	404001010031	128
37	404062010022	128
38	404122010032	128
39	404381030011	128
40	404401020041	128
41	404561010031	128
42	404581020011	128
43	404701010031	128
44	404891010031	128
45	405021050011	128
46	405021060011	128
47	405041010011	128
48	405191020011	128
49	405311040011	128
50	405391030011	128

HC-126I
Sample SAS Job for Example B
sample print of work.asclnks - sorted by condidx
events linked to asthma condition records

CONDIDX	EVNTIDX	EVENTYPE
400011010011	400011010061	8 PMED
400011010011	400011010101	8 PMED
400011030011	400011030081	8 PMED
400441010101	400441010411	8 PMED
400501010021	400501010011	8 PMED
400501010021	400501010051	8 PMED
400501010021	400501010091	8 PMED
400501010021	400501010121	8 PMED
400521010101	400521010031	1 MVIS
400521010101	400521010041	1 MVIS
400521010101	400521010131	8 PMED
400881020041	400881020021	1 MVIS
400881020041	400881020031	1 MVIS
400881020041	400881020041	1 MVIS
400881020041	400881020051	8 PMED
400881020041	400881020061	8 PMED
400881020041	400881020071	8 PMED
400881020041	400881020081	8 PMED
400881020041	400881020091	1 MVIS
400881020041	400881020101	1 MVIS
400881020041	400881020111	8 PMED
401051050011	401051050011	8 PMED
401051050011	401051050031	8 PMED
401601010041	401601010281	8 PMED
401601010041	401601010311	8 PMED
401601010041	401601010321	1 MVIS
401601010041	401601010331	1 MVIS
401601010041	401601010341	1 MVIS
401601010041	401601010471	8 PMED
401911030011	401911030011	1 MVIS
401911030011	401911030021	1 MVIS
401911030011	401911030031	1 MVIS
401911030011	401911030041	1 MVIS
401911030011	401911030051	1 MVIS
401911030011	401911030091	8 PMED
401911030011	401911030131	1 MVIS
401911030011	401911030141	8 PMED
402121020011	402121020011	3 EROM
402121020011	402121020041	8 PMED
402121020011	402121020051	8 PMED
402121020011	402121020061	8 PMED
402151010011	402151010041	8 PMED
402151010011	402151010061	8 PMED
402151030011	402151030051	8 PMED
402331020051	402331020241	8 PMED
402361020011	402361020021	8 PMED
402841010081	402841010291	8 PMED
403491040011	403491040041	8 PMED
403491040011	403491040051	8 PMED
403491040011	403491040061	1 MVIS
403491040011	403491040091	8 PMED
403491040011	403491040111	8 PMED
403491040011	403491040121	8 PMED
403601030011	403601030111	8 PMED
403601030011	403601030121	8 PMED
403601030011	403601030131	8 PMED
403601030011	403601030141	8 PMED
403691020021	403691020041	1 MVIS
403691020021	403691020051	1 MVIS
403691020021	403691020061	1 MVIS
403691020021	403691020071	1 MVIS
403691020021	403691020081	1 MVIS
403691020021	403691020091	1 MVIS
403691020021	403691020101	1 MVIS
403691020021	403691020111	1 MVIS
403691050021	403691050041	1 MVIS
403691050021	403691050051	1 MVIS

CONDIDX	EVNTIDX	EVENTYPE
403691060011	403691060011	1 MVIS
403691060011	403691060041	8 PMED
403701020061	403701020141	8 PMED
403701020061	403701020161	8 PMED
403701020061	403701020291	8 PMED
403701020061	403701020311	8 PMED
403701020061	403701020351	8 PMED
403751020061	403751020111	8 PMED

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Obs	CONDIDX	EVNTIDX	EVENTYPE
1	400011010011	400011010061	8 PMED
2	400011010011	400011010101	8 PMED
3	400011030011	400011030081	8 PMED
4	400441010101	400441010411	8 PMED
5	400501010021	400501010011	8 PMED
6	400501010021	400501010051	8 PMED
7	400501010021	400501010091	8 PMED
8	400501010021	400501010121	8 PMED
9	400521010101	400521010031	1 MVIS
10	400521010101	400521010041	1 MVIS
11	400521010101	400521010131	8 PMED
12	400881020041	400881020021	1 MVIS
13	400881020041	400881020031	1 MVIS
14	400881020041	400881020041	1 MVIS
15	400881020041	400881020051	8 PMED
16	400881020041	400881020061	8 PMED
17	400881020041	400881020071	8 PMED
18	400881020041	400881020081	8 PMED
19	400881020041	400881020091	1 MVIS
20	400881020041	400881020101	1 MVIS
21	400881020041	400881020111	8 PMED
22	401051050011	401051050011	8 PMED
23	401051050011	401051050031	8 PMED
24	401601010041	401601010281	8 PMED
25	401601010041	401601010311	8 PMED
26	401601010041	401601010321	1 MVIS
27	401601010041	401601010331	1 MVIS
28	401601010041	401601010341	1 MVIS
29	401601010041	401601010471	8 PMED
30	401911030011	401911030011	1 MVIS
31	401911030011	401911030021	1 MVIS
32	401911030011	401911030031	1 MVIS
33	401911030011	401911030041	1 MVIS
34	401911030011	401911030051	1 MVIS
35	401911030011	401911030091	8 PMED
36	401911030011	401911030131	1 MVIS
37	401911030011	401911030141	8 PMED
38	402121020011	402121020011	3 EROM
39	402121020011	402121020041	8 PMED
40	402121020011	402121020051	8 PMED
41	402121020011	402121020061	8 PMED
42	402151010011	402151010041	8 PMED
43	402151010011	402151010061	8 PMED
44	402151030011	402151030051	8 PMED
45	402331020051	402331020241	8 PMED
46	402361020011	402361020021	8 PMED
47	402841010081	402841010291	8 PMED
48	403491040011	403491040041	8 PMED
49	403491040011	403491040051	8 PMED
50	403491040011	403491040061	1 MVIS

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

Obs	EVNTIDX	EVENTYPE
1	400011010061	8 PMED
2	400011010101	8 PMED
3	400011030081	8 PMED
4	400441010411	8 PMED
5	400501010011	8 PMED
6	400501010051	8 PMED
7	400501010091	8 PMED
8	400501010121	8 PMED
9	400521010031	1 MVIS
10	400521010041	1 MVIS
11	400521010131	8 PMED
12	400881020021	1 MVIS
13	400881020031	1 MVIS
14	400881020041	1 MVIS
15	400881020051	8 PMED
16	400881020061	8 PMED
17	400881020071	8 PMED
18	400881020081	8 PMED
19	400881020091	1 MVIS
20	400881020101	1 MVIS
21	400881020111	8 PMED
22	401051050011	8 PMED
23	401051050031	8 PMED
24	401601010281	8 PMED
25	401601010311	8 PMED
26	401601010321	1 MVIS
27	401601010331	1 MVIS
28	401601010341	1 MVIS
29	401601010471	8 PMED
30	401911030011	1 MVIS
31	401911030021	1 MVIS
32	401911030031	1 MVIS
33	401911030041	1 MVIS
34	401911030051	1 MVIS
35	401911030091	8 PMED
36	401911030131	1 MVIS
37	401911030141	8 PMED
38	402121020011	3 EROM
39	402121020041	8 PMED
40	402121020051	8 PMED
41	402121020061	8 PMED
42	402151010041	8 PMED
43	402151010061	8 PMED
44	402151030051	8 PMED
45	402331020241	8 PMED
46	402361020021	8 PMED
47	402841010291	8 PMED
48	403491040041	8 PMED
49	403491040051	8 PMED
50	403491040061	1 MVIS

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Sample SAS Job for Example B
sample print of work.aspmeds
PMED (HC-126A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP09X	PERWT09F
400011010061	400011010061001	ADVAIR DISKUS	200.69	14251.111105
400011010101	400011010101001	ADVAIR DISKUS	416.17	14251.111105
400011030081	400011030081001	PULMICORT RESPULES	418.72	14803.089514
400011030081	400011030081002	PULMICORT RESPULES	418.72	14803.089514
400011030081	400011030081003	PULMICORT RESPULES	418.72	14803.089514
400441010411	400441010411001	MUCINEX	19.99	17739.800407
400501010011	400501010011001	ADVAIR DISKU	201.00	10588.753294
400501010011	400501010011002	ADVAIR DISKU	201.00	10588.753294
400501010051	400501010051001	ADVAIR DISKU	201.00	10588.753294
400501010051	400501010051002	ADVAIR DISKU	194.37	10588.753294
400501010051	400501010051003	ADVAIR DISKU	194.37	10588.753294
400501010051	400501010051004	ADVAIR DISKU	201.00	10588.753294
400501010051	400501010051005	ADVAIR DISKU	201.00	10588.753294
400501010051	400501010051006	ADVAIR DISKU	201.00	10588.753294
400501010091	400501010091001	ADVAIR DISKU	201.00	10588.753294
400501010091	400501010091002	ADVAIR DISKU	201.00	10588.753294
400501010091	400501010091003	ADVAIR DISKU	201.00	10588.753294
400501010091	400501010091004	ADVAIR DISKU	201.00	10588.753294
400501010121	400501010121001	PROVENTIL	81.55	10588.753294
400521010131	400521010131001	ADVAIR DISKUS	154.72	4936.989686
400881020051	400881020051001	PROMETHAZINE DM	5.00	3579.012187
400881020061	400881020061001	ACIPHEX	185.59	3579.012187
400881020061	400881020061002	ACIPHEX	185.59	3579.012187
400881020071	400881020071001	SYMBICORT	223.99	3579.012187
400881020071	400881020071002	SYMBICORT	248.69	3579.012187
400881020081	400881020081001	SPIRIVA HANDIHLR	175.00	3579.012187
400881020081	400881020081002	SPIRIVA HANDIHLR	175.00	3579.012187
400881020111	400881020111001	ACIPHEX	185.59	3579.012187
401051050011	401051050011001	SINGULAIR	352.35	13769.384013
401051050011	401051050011002	SINGULAIR	352.35	13769.384013
401051050011	401051050011003	SINGULAIR	352.35	13769.384013
401051050011	401051050011004	SINGULAIR	352.35	13769.384013
401051050011	401051050011005	SINGULAIR	352.35	13769.384013
401051050031	401051050031001	PULMICORT RESPULES	179.48	13769.384013
401601010281	401601010281001	DIPHENHYDRAMINE HYDROCHLORIDE	9.58	2051.235697
401601010281	401601010281002	COMPLETE ALLERGY	1.31	2051.235697
401601010311	401601010311001	HALOPERIDOL	62.36	2051.235697
401601010311	401601010311002	HALOPERIDOL	1.10	2051.235697
401601010311	401601010311003	HALOPERIDOL	17.13	2051.235697
401601010311	401601010311004	HALOPERIDOL	80.24	2051.235697
401601010311	401601010311005	HALOPERIDOL	68.63	2051.235697
401601010471	401601010471001	XOPENEX HFA	53.33	2051.235697
401911030091	401911030091001	XOPENEX	91.00	5621.646638
401911030091	401911030091002	XOPENEX	91.00	5621.646638
401911030141	401911030141001	XOPENEX	91.00	5621.646638
402121020041	402121020041001	PREDNISONE	7.41	4514.743374
402121020051	402121020051001	VENTOLIN HFA	74.02	4514.743374
402121020051	402121020051002	VENTOLIN HFA	74.02	4514.743374
402121020051	402121020051003	VENTOLIN HFA	74.02	4514.743374
402121020061	402121020061001	PREDNISONE	1.67	4514.743374
402121020061	402121020061002	PREDNISONE	1.67	4514.743374
402121020061	402121020061003	PREDNISONE	1.67	4514.743374
402151010041	402151010041001	ALBUTEROL HFA	19.72	10676.922942
402151010041	402151010041002	ALBUTEROL HFA	19.72	10676.922942
402151010061	402151010061001	ALBUTEROL	37.78	10676.922942
402151010061	402151010061002	ALBUTEROL	37.78	10676.922942
402151030051	402151030051001	ALBUTEROL SULFATE	5.75	6855.721593
402331020241	402331020241001	ALBUTEROL	37.78	9726.350716
402361020021	402361020021001	ALBUTEROL	37.78	34868.237549
402841010291	402841010291001	FEXOFENADINE HYDROCHLORIDE	33.82	22027.463773
402841010291	402841010291002	FEXOFENADINE HYDROCHLORIDE	33.82	22027.463773
402841010291	402841010291003	FEXOFENADINE HYDROCHLORIDE	33.82	22027.463773
402841010291	402841010291004	FEXOFENADINE HYDROCHLORIDE	33.82	22027.463773
402841010291	402841010291005	FEXOFENADINE HYDROCHLORIDE	33.82	22027.463773
402841010291	402841010291006	FEXOFENADINE HYDROCHLORIDE	31.46	22027.463773
403491040041	403491040041001	PULMICORT RESPULES	179.48	2416.072308
403491040051	403491040051001	VENTOLIN HFA	33.96	2416.072308

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LINKIDX	RXRECIDX	RXNAME	RXXP09X	PERWT09F
403491040091	403491040091001	VENTOLIN HFA	33.96	2416.072308
403491040091	403491040091002	VENTOLIN HFA	33.96	2416.072308
403491040091	403491040091003	VENTOLIN HFA	33.96	2416.072308
403491040091	403491040091004	VENTOLIN HFA	33.96	2416.072308
403491040091	403491040091005	VENTOLIN HFA	33.96	2416.072308
403491040091	403491040091006	VENTOLIN HFA	33.96	2416.072308
403491040111	403491040111001	PULMICORT RESPULES	179.48	2416.072308
403491040121	403491040121001	VENTOLIN HFA	33.96	2416.072308
403601030111	403601030111001	ADVAIR DISKUS	162.99	7579.284306
403601030121	403601030121001	SINGULAIR	110.22	7579.284306
403601030131	403601030131001	PROTONIX	330.85	7579.284306
403601030141	403601030141001	CETIRIZINE HYDROCHLORIDE	6.89	7579.284306
403691060041	403691060041001	SYMBICORT	163.10	12142.929000
403691060041	403691060041002	SYMBICORT	163.10	12142.929000
403691060041	403691060041003	SYMBICORT	163.10	12142.929000
403701020141	403701020141001	SEREVENT DISKUS	145.02	7724.717644
403701020141	403701020141002	SEREVENT DISKUS	145.02	7724.717644
403701020141	403701020141003	SEREVENT DISKUS	145.02	7724.717644
403701020161	403701020161001	SINGULAIR	114.86	7724.717644
403701020161	403701020161002	SINGULAIR	114.86	7724.717644
403701020161	403701020161003	SINGULAIR	114.86	7724.717644
403701020291	403701020291001	ASTELIN	87.13	7724.717644
403701020291	403701020291002	ASTELIN	87.13	7724.717644
403701020311	403701020311001	SINGULAIR	103.52	7724.717644
403701020311	403701020311002	SINGULAIR	103.52	7724.717644
403701020351	403701020351001	ADVAIR DISKU	190.00	7724.717644
403701020351	403701020351002	ADVAIR DISKU	190.00	7724.717644
403701020351	403701020351003	ADVAIR DISKU	190.00	7724.717644
403701020351	403701020351004	ADVAIR DISKU	190.00	7724.717644
403701020351	403701020351005	ADVAIR DISKU	190.00	7724.717644
403701020351	403701020351006	ADVAIR DISKU	190.00	7724.717644
403751020111	403751020111001	ACTONEL	93.72	5045.100521
403751020111	403751020111002	ACTONEL	93.72	5045.100521
403751020111	403751020111003	ACTONEL	93.72	5045.100521
403751020141	403751020141001	PROAIR HFA	45.99	5045.100521
403751020141	403751020141002	PROAIR HFA	45.99	5045.100521
403751020141	403751020141003	PROAIR HFA	45.99	5045.100521
403751020201	403751020201001	ALBUTEROL	37.78	5045.100521
403751020201	403751020201002	ALBUTEROL	37.78	5045.100521
403751020201	403751020201003	ALBUTEROL	37.78	5045.100521
403751020351	403751020351001	PROVENTIL HFA	42.95	5045.100521
403751020351	403751020351002	PROVENTIL HFA	42.95	5045.100521
403751020351	403751020351003	PROVENTIL HFA	42.95	5045.100521
403751020351	403751020351004	PROVENTIL HFA	42.95	5045.100521
403751020401	403751020401001	ALBUTEROL	37.78	5045.100521
403751020401	403751020401002	ALBUTEROL	37.78	5045.100521
403751020401	403751020401003	ALBUTEROL	37.78	5045.100521
403751020401	403751020401004	ALBUTEROL	37.78	5045.100521
403751020421	403751020421001	SPIRIVA	511.70	5045.100521
403751020421	403751020421002	SPIRIVA	511.70	5045.100521
403751020531	403751020531001	PROAIR HFA	45.99	5045.100521
403751020531	403751020531002	PROAIR HFA	45.99	5045.100521
403751020531	403751020531003	PROAIR HFA	45.99	5045.100521
403751020531	403751020531004	PROAIR HFA	45.99	5045.100521
403751020591	403751020591001	ALBUTEROL	37.78	5045.100521
403751020591	403751020591002	ALBUTEROL	37.78	5045.100521
403751020591	403751020591003	ALBUTEROL	37.78	5045.100521
403751020591	403751020591004	ALBUTEROL	37.78	5045.100521
403751020611	403751020611001	SPIRIVA	493.54	5045.100521
403751020611	403751020611002	SPIRIVA	493.54	5045.100521
403751020611	403751020611003	SPIRIVA	493.54	5045.100521
403751020611	403751020611004	SPIRIVA	493.64	5045.100521
403761020131	403761020131001	ADVAIR DISKUS	160.29	10495.656139
403761020141	403761020141001	PROVENTIL HFA	58.99	10495.656139
403761020341	403761020341001	ADVAIR DISKUS	160.29	10495.656139
403761020341	403761020341002	ADVAIR DISKUS	160.29	10495.656139
403761020341	403761020341003	ADVAIR DISKUS	160.29	10495.656139
403761020351	403761020351001	PROVENTIL	3.00	10495.656139
403761020351	403761020351002	PROVENTIL	3.00	10495.656139
403761020351	403761020351003	PROVENTIL	3.00	10495.656139
403761020591	403761020591001	PROVENTIL HFA	58.99	10495.656139

LINKIDX	RXRECIDX	RXNAME	RXXP09X	PERWT09F
403831010231	403831010231001	PROAIR HFA	37.00	14958.062378I
403851020031	403851020031001	ADVAIR	141.92	17325.051907
403851020071	403851020071001	ADVAIR	141.92	17325.051907
403851020071	403851020071002	ADVAIR	141.92	17325.051907
403851020171	403851020171001	ADVAIR	141.92	17325.051907
404001010021	404001010021001	SYMBICORT	190.13	2642.389748
404001010041	404001010041001	SYMBICORT	190.13	2642.389748
404001010081	404001010081001	SYMBICORT	185.54	2642.389748
404062010182	404062010182001	ALBUTEROL	37.78	7267.895202
404062010192	404062010192001	FLOVENT	95.57	7267.895202
404122010512	404122010512001	VENTOLIN HFA	41.80	4546.108410
404122010522	404122010522001	FLUTICASONE TOPICAL	11.32	4546.108410
404381030041	404381030041001	VENTOLIN HFA	34.17	2575.496786
404381030111	404381030111001	LORATADINE	7.64	2575.496786
404381030111	404381030111002	LORATADINE	7.64	2575.496786
404381030111	404381030111003	LORATADINE	7.64	2575.496786
404381030191	404381030191001	VENTOLIN HFA	34.17	2575.496786
404381030201	404381030201001	ADVAIR DISKUS	158.56	2575.496786
404381030211	404381030211001	PROAIR HFA	38.50	2575.496786
404381030241	404381030241001	ADVAIR DISKUS	162.83	2575.496786
404381030251	404381030251001	VENTOLIN HFA	34.17	2575.496786
404401020791	404401020791001	PROVENTIL	14.11	14678.298853
404561010121	404561010121001	ADVAIR DISKUS	425.28	25727.227319
404561010251	404561010251001	ADVAIR DISKUS	425.28	25727.227319
404581020061	404581020061001	VENTOLIN HFA	34.48	3429.039288
404581020071	404581020071001	FLOVENT HFA	126.57	3429.039288
404701010031	404701010031001	FLOVENT	95.57	7125.366836
404701010091	404701010091001	FLOVENT HFA	138.57	7125.366836
404701010091	404701010091002	FLOVENT HFA	138.57	7125.366836
404701010111	404701010111001	VENTOLIN HFA	35.39	7125.366836
404701010141	404701010141001	FLOVENT HFA	123.38	7125.366836
404891010411	404891010411001	PREDNISONE	3.85	2825.304378
404891010491	404891010491001	ADVAIR DISKUS	204.28	2825.304378
404891010491	404891010491002	ADVAIR DISKUS	204.28	2825.304378
404891010501	404891010501001	QVAR	71.71	2825.304378
404891010501	404891010501002	QVAR	71.71	2825.304378
404891010681	404891010681001	ADVAIR DISKUS	204.28	2825.304378
404891010681	404891010681002	ADVAIR DISKUS	204.28	2825.304378
404891010681	404891010681003	ADVAIR DISKUS	204.28	2825.304378
404891010681	404891010681004	ADVAIR DISKUS	204.28	2825.304378
404891010691	404891010691001	VENTOLIN HFA	33.99	2825.304378
404891010691	404891010691002	VENTOLIN HFA	33.99	2825.304378
404891010691	404891010691003	VENTOLIN HFA	33.99	2825.304378
404891010691	404891010691004	VENTOLIN HFA	33.99	2825.304378
404891010691	404891010691005	VENTOLIN HFA	33.99	2825.304378
405021050061	405021050061001	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061002	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061003	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061004	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061005	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061006	VENTOLIN HFA	38.26	6270.151842
405021050061	405021050061007	VENTOLIN HFA	38.26	6270.151842
405021050071	405021050071001	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071002	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071003	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071004	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071005	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071006	ADVAIR DISKUS	213.29	6270.151842
405021050071	405021050071007	ADVAIR DISKUS	213.29	6270.151842
405021060041	405021060041001	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041002	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041003	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041004	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041005	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041006	VENTOLIN HFA	38.26	6386.244760
405021060041	405021060041007	VENTOLIN HFA	38.26	6386.244760
405021060051	405021060051001	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051002	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051003	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051004	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051005	FLOVENT HFA	100.63	6386.244760

LINKIDX	RXRECIDX	RXNAME	RXXP09X	PERWT09F
405021060051	405021060051006	FLOVENT HFA	100.63	6386.244760
405021060051	405021060051007	FLOVENT HFA	100.63	6386.244760
405041010031	405041010031001	HYPER-SAL	63.49	9889.450465
405041010031	405041010031002	HYPER-SAL	63.49	9889.450465
405041010031	405041010031003	HYPER-SAL	63.49	9889.450465
405041010031	405041010031004	HYPER-SAL	63.49	9889.450465
405191020051	405191020051001	PROAIR HFA	76.28	9948.215667
405191020101	405191020101001	PROAIR HFA	76.28	9948.215667
405561030031	405561030031001	PULMICORT FLEXHALER	95.10	14066.833022
405561030041	405561030041001	ALBUTEROL	37.78	14066.833022
405561030091	405561030091001	ALBUTEROL SULFATE	102.18	14066.833022
405581010101	405581010101001	ALBUTEROL	37.78	8236.989502
405581010101	405581010101002	ALBUTEROL	37.78	8236.989502
405581010101	405581010101003	ALBUTEROL	37.78	8236.989502
405581010101	405581010101004	ALBUTEROL	37.78	8236.989502
405581010101	405581010101005	ALBUTEROL	37.78	8236.989502
405581010101	405581010101006	ALBUTEROL	37.78	8236.989502
405581010151	405581010151001	ALBUTEROL	37.78	8236.989502
405581010151	405581010151002	ALBUTEROL	37.78	8236.989502
405581010151	405581010151003	ALBUTEROL	37.78	8236.989502
405911050071	405911050071001	ADVAIR DISKUS	200.21	7523.311904
405911050071	405911050071002	ADVAIR DISKUS	200.21	7523.311904
405911050071	405911050071003	ADVAIR DISKUS	200.21	7523.311904
405911050111	405911050111001	ADVAIR DISKUS	191.88	7523.311904
405911050111	405911050111002	ADVAIR DISKUS	191.88	7523.311904
405911050111	405911050111003	ADVAIR DISKUS	191.88	7523.311904
405911050111	405911050111004	ADVAIR DISKUS	191.88	7523.311904
405911050111	405911050111005	ADVAIR DISKUS	191.88	7523.311904
405911050111	405911050111006	ADVAIR DISKUS	191.88	7523.311904
405911050111	405911050111007	ADVAIR DISKUS	191.88	7523.311904
406061040011	406061040011001	ADVAIR DISKUS	242.99	2997.679792
406061040011	406061040011002	ADVAIR DISKUS	242.99	2997.679792
406061040021	406061040021001	ALBUTEROL HFA	19.72	2997.679792
406061040021	406061040021002	ALBUTEROL HFA	19.72	2997.679792
406061040052	406061040052001	ALBUTEROL HFA	19.72	2997.679792
406061040052	406061040052002	ALBUTEROL HFA	19.72	2997.679792
406061040052	406061040052003	ALBUTEROL HFA	19.72	2997.679792
406061040052	406061040052004	ALBUTEROL HFA	19.72	2997.679792
406111010211	406111010211001	SPIRIVA	171.16	9985.706330
406111010211	406111010211002	SPIRIVA	171.16	9985.706330
406111010211	406111010211003	SPIRIVA	171.16	9985.706330
406111010211	406111010211004	SPIRIVA	342.33	9985.706330
406111010211	406111010211005	SPIRIVA	342.33	9985.706330
406111010211	406111010211006	SPIRIVA	342.33	9985.706330
406111010211	406111010211007	SPIRIVA	171.16	9985.706330
406111010211	406111010211008	SPIRIVA	171.16	9985.706330
406111010231	406111010231001	SYMBICORT	152.00	9985.706330
406111010241	406111010241001	PREDNISONE	5.00	9985.706330
406111010241	406111010241002	PREDNISONE	5.00	9985.706330
406111010241	406111010241003	PREDNISONE	5.00	9985.706330
406111010241	406111010241004	PREDNISONE	5.00	9985.706330
406111010431	406111010431001	SPIRIVA	171.16	9985.706330
406111010431	406111010431002	SPIRIVA	342.33	9985.706330
406381030081	406381030081001	ALBUTEROL-IPRATROPIUM BROMIDE	95.16	8612.296225
406381030081	406381030081002	ALBUTEROL-IPRATROPIUM BROMIDE	95.16	8612.296225
406381030091	406381030091001	ADVAIR DISKUS	785.59	8612.296225
406381030131	406381030131001	METHYLPREDNISOLONE	149.15	8612.296225
406381030251	406381030251001	ALBUTEROL-IPRATROPIUM BROMIDE	95.52	8612.296225
406381030251	406381030251002	ALBUTEROL-IPRATROPIUM BROMIDE	95.40	8612.296225
406381030261	406381030261001	ADVAIR DISKUS	785.59	8612.296225
406381030261	406381030261002	ADVAIR DISKUS	785.58	8612.296225
406381030271	406381030271001	PANTOPRAZOLE	90.60	8612.296225
406381030271	406381030271002	PANTOPRAZOLE	90.60	8612.296225
406381030281	406381030281001	FEXOFENADINE HYDROCHLORIDE	108.57	8612.296225
406381030281	406381030281002	FEXOFENADINE HYDROCHLORIDE	117.89	8612.296225
406381030291	406381030291001	SINGULAIR	343.96	8612.296225
406381030291	406381030291002	SINGULAIR	343.96	8612.296225
406381030301	406381030301001	METHYLPREDNISOLONE	149.15	8612.296225
406381030301	406381030301002	METHYLPREDNISOLONE	50.72	8612.296225
406421010271	406421010271001	ADVAIR DISKUS	322.99	13623.186685
406421010271	406421010271002	ADVAIR DISKUS	322.99	13623.186685

LINKIDX	RXRECIDX	RXNAME	RXXP09X	PERWT09F
406421010271	406421010271003	ADVAIR DISKUS	322.99	13623.186685
406421010271	406421010271004	ADVAIR DISKUS	322.99	13623.186685
406421010271	406421010271005	ADVAIR DISKUS	322.99	13623.186685
406421010271	406421010271006	ADVAIR DISKUS	322.99	13623.186685
406421010301	406421010301001	ADVAIR DISKUS	322.99	13623.186685
406421010301	406421010301002	ADVAIR DISKUS	322.99	13623.186685
406421010301	406421010301003	ADVAIR DISKUS	322.99	13623.186685
406421010301	406421010301004	ADVAIR DISKUS	322.99	13623.186685
406421010301	406421010301005	ADVAIR DISKUS	322.99	13623.186685
406421010301	406421010301006	ADVAIR DISKUS	322.99	13623.186685
406421010391	406421010391001	ADVAIR DISKUS	322.99	13623.186685
406551040041	406551040041001	ALBUTEROL SULFATE	7.24	5843.794078
406551040041	406551040041002	ALBUTEROL SULFATE	7.24	5843.794078
406551040041	406551040041003	ALBUTEROL SULFATE	7.24	5843.794078
406551040051	406551040051001	BUDESONIDE	140.49	5843.794078
406551040051	406551040051002	BUDESONIDE	140.49	5843.794078
406551040051	406551040051003	BUDESONIDE	140.49	5843.794078
406961010201	406961010201001	MIRTAZAPINE	85.30	2239.634008
406961010201	406961010201002	MIRTAZAPINE	85.30	2239.634008
406961010201	406961010201003	MIRTAZAPINE	85.30	2239.634008

HC-126I
Sample SAS Job for Example B
Total Rx expenditures associated with asthma

Analysis Variable: RXXP09X SUM OF PAYMENTS RXSF09X-RXOU09X(IMPUTED)

N	Sum
10436	1175931.86

HC-126I
Sample SAS Job for Example B
Total Rx expenditures associated with asthma

Weighted

Analysis Variable: RXXP09X SUM OF PAYMENTS RXSF09X-RXOU09X(IMPUTED)

N	Sum
10436	11030532968

```
NOTE: Copyright (c) 2002-2008 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software 9.2 (TS2M3)
NOTE: This session is executing on the XP_PRO  platform.



NOTE: SAS initialization used:
      real time            0.62 seconds
      cpu time             0.35 seconds


NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS92\SASFoundation\9.2\autoexec.sas.


NOTE: AUTOEXEC processing completed.

1          ods rtf file = 'c:\sampleC.rtf' bodytitle;
NOTE: Writing RTF Body file: c:\sampleC.rtf
2
3          ods noproctitle;
4
5          OPTIONS LS=132 PS=59;
6
7          TITLE1 "HC-126I";
8          TITLE2 "Sample SAS Job for Example C";
9
10         LIBNAME IN "C:\Data";
NOTE: Libref IN was successfully assigned as follows:
      Engine:        V9
      Physical Name: C:\Data
11
12         *********************************************************************************
13         *  Calculate the expenditures for medical visits associated with asthma.
14         *********************************************************************************;
15         PROC FORMAT;
16           VALUE EVENTYPE
17               1 = "1 MVIS"
18               2 = "2 OPAT"
19               3 = "3 EROM"
20               4 = "4 STAZ"
21               5 = "5 DVIS"
22               6 = "6 OMED"
23               7 = "7 HVIS"
```

```
24              8 = "8 PMED";
NOTE: Format EVENTYPE has been output.
25          RUN;

NOTE: PROCEDURE FORMAT used (Total process time):
      real time           0.04 seconds
      cpu time            0.00 seconds


26
27          *----------------------------------------------------------------------------------
28          * Get conditions records coded as asthma.
29          *---------------------------------------------------------------------------------;
30          DATA ASCONDS;
31            SET IN.H128 (KEEP=CONDIDX CCCODEX);
32            IF CCCODEX="128";
33          RUN;

NOTE: There were 117342 observations read from the data set IN.H128.
NOTE: The data set WORK.ASCONDS has 2420 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           4.06 seconds
      cpu time            0.04 seconds


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

NOTE: There were 2420 observations read from the data set WORK.ASCONDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCONDS has 2420 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


39
40          proc print data=asconds (obs=50);
41            title3 "sample print of work.asconds - sorted by condidx";
42            title4 "COND (H128) records where cccodex=128";
43          run;

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
NOTE: The PROCEDURE PRINT printed page 1.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.07 seconds
      cpu time            0.01 seconds


44
45          PROC SORT DATA=IN.H126IF1 OUT=CLNK; BY CONDIDX; RUN;

NOTE: There were 342044 observations read from the data set IN.H126IF1.
NOTE: SAS threaded sort was used.
```

```
NOTE: The data set WORK.CLNK has 342044 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           12.37 seconds
      cpu time            0.59 seconds


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

NOTE: There were 342044 observations read from the data set WORK.CLNK.
NOTE: There were 2420 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7669 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time           1.18 seconds
      cpu time            0.07 seconds


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

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed pages 2-3.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           1.04 seconds
      cpu time            0.00 seconds


61
62          PROC SORT DATA=ASCLNKS; BY EVNTIDX; RUN;

NOTE: There were 7669 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 7669 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed page 4.
```

```
NOTE: PROCEDURE PRINT used (Total process time):
      real time              1.03 seconds
      cpu time               0.01 seconds


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

NOTE: There were 7669 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7667 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time              0.01 seconds
      cpu time               0.01 seconds


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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed page 5.
NOTE: PROCEDURE PRINT used (Total process time):
      real time              0.10 seconds
      cpu time               0.00 seconds


79
80           *-------------------------------------------------------------------------------------------
81           * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
82           *------------------------------------------------------------------------------------------;
83           DATA MVIS;
84             SET IN.H126G (KEEP=EVNTIDX PERWT09F SEETLKPV OBXP09X);
85             IF PERWT09F > 0 & SEETLKPV NE 2;
86           RUN;

NOTE: There were 154599 observations read from the data set IN.H126G.
NOTE: The data set WORK.MVIS has 149890 observations and 4 variables.
NOTE: DATA statement used (Total process time):
      real time             12.10 seconds
      cpu time               0.25 seconds


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

NOTE: There were 149890 observations read from the data set WORK.MVIS.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.MVIS has 149890 observations and 4 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time              0.07 seconds
      cpu time               0.10 seconds
```

```
89
90          *-----------------------------------------------------------------------------------
91          * Identify MVIS events which were for asthma.
92          *----------------------------------------------------------------------------------;
93          DATA ASMVIS;
94            MERGE ASCLNKS (IN=INASCLNK)
95                  MVIS    (IN=INMVIS);
96            BY EVNTIDX;
97            IF INASCLNK & INMVIS;
98          RUN;

NOTE: There were 7667 observations read from the data set WORK.ASCLNKS.
NOTE: There were 149890 observations read from the data set WORK.MVIS.
NOTE: The data set WORK.ASMVIS has 2286 observations and 5 variables.
NOTE: DATA statement used (Total process time):
      real time           0.03 seconds
      cpu time            0.03 seconds


99
100         proc print data=asmvis (obs=50);
101            format eventype eventype.;
102            title3 "sample print of work.asmvis";
103            title4 "unique evntidxs from work.asclnks that are non-telephone MVIS (HC-126G) events";
104         run;

NOTE: There were 50 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE PRINT printed page 6.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.03 seconds
      cpu time            0.01 seconds


105
106         PROC MEANS DATA=ASMVIS N SUM;
107            VAR OBXP09X;
108            TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
109         RUN;

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 2286 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE MEANS printed page 7.
NOTE: PROCEDURE MEANS used (Total process time):
      real time           0.07 seconds
      cpu time            0.01 seconds


110
111         PROC MEANS DATA=ASMVIS N SUM;
112            VAR OBXP09X;
113            WEIGHT PERWT09F;
114            TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
115            TITLE5 "Weighted";
116         RUN;
```

```
NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 2286 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE MEANS printed page 8.
NOTE: PROCEDURE MEANS used (Total process time):
      real time            0.07 seconds
      cpu time             0.00 seconds


117
118        ods rtf close;
119
120

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
NOTE: The SAS System used:
      real time            33.79 seconds
      cpu time             1.96 seconds
```

```
                        HC-126I
                Sample SAS Job for Example C
        sample print of work.asconds - sorted by condidx
            COND (H128) records where cccodex=128
```

Obs	CONDIDX	CCCODEX
1	400011010011	128
2	400011030011	128
3	400441010101	128
4	400501010021	128
5	400521010101	128
6	400841010091	128
7	400881020041	128
8	401051050011	128
9	401481020061	128
10	401601010041	128
11	401901010031	128
12	401911030011	128
13	402121010021	128
14	402121020011	128
15	402151010011	128
16	402151020041	128
17	402151030011	128
18	402271010011	128
19	402331020051	128
20	402361020011	128
21	402451030011	128
22	402841010081	128
23	403491040011	128
24	403601030011	128
25	403691020021	128
26	403691050021	128
27	403691060011	128
28	403701020061	128
29	403701020161	128
30	403751020061	128
31	403761020041	128
32	403831010041	128
33	403851020041	128
34	403881010081	128
35	403881020011	128
36	404001010031	128
37	404062010022	128
38	404122010032	128
39	404381030011	128
40	404401020041	128
41	404561010031	128
42	404581020011	128
43	404701010031	128
44	404891010031	128
45	405021050011	128
46	405021060011	128
47	405041010011	128
48	405191020011	128
49	405311040011	128
50	405391030011	128

```
                    HC-126I
           Sample SAS Job for Example C
     sample print of work.asclnks - sorted by condidx
         events linked to asthma condition records
```

CONDIDX	EVNTIDX	EVENTYPE
400011010011	400011010061	8 PMED
400011010011	400011010101	8 PMED
400011030011	400011030081	8 PMED
400441010101	400441010411	8 PMED
400501010021	400501010011	8 PMED
400501010021	400501010051	8 PMED
400501010021	400501010091	8 PMED
400501010021	400501010121	8 PMED
400521010101	400521010031	1 MVIS
400521010101	400521010041	1 MVIS
400521010101	400521010131	8 PMED
400881020041	400881020021	1 MVIS
400881020041	400881020031	1 MVIS
400881020041	400881020041	1 MVIS
400881020041	400881020051	8 PMED
400881020041	400881020061	8 PMED
400881020041	400881020071	8 PMED
400881020041	400881020081	8 PMED
400881020041	400881020091	1 MVIS
400881020041	400881020101	1 MVIS
400881020041	400881020111	8 PMED
401051050011	401051050011	8 PMED
401051050011	401051050031	8 PMED
401601010041	401601010281	8 PMED
401601010041	401601010311	8 PMED
401601010041	401601010321	1 MVIS
401601010041	401601010331	1 MVIS
401601010041	401601010341	1 MVIS
401601010041	401601010471	8 PMED
401911030011	401911030011	1 MVIS
401911030011	401911030021	1 MVIS
401911030011	401911030031	1 MVIS
401911030011	401911030041	1 MVIS
401911030011	401911030051	1 MVIS
401911030011	401911030091	8 PMED
401911030011	401911030131	1 MVIS
401911030011	401911030141	8 PMED
402121020011	402121020011	3 EROM
402121020011	402121020041	8 PMED
402121020011	402121020051	8 PMED
402121020011	402121020061	8 PMED
402151010011	402151010041	8 PMED
402151010011	402151010061	8 PMED
402151030011	402151030051	8 PMED
402331020051	402331020241	8 PMED
402361020011	402361020021	8 PMED
402841010081	402841010291	8 PMED
403491040011	403491040041	8 PMED
403491040011	403491040051	8 PMED
403491040011	403491040061	1 MVIS
403491040011	403491040091	8 PMED
403491040011	403491040111	8 PMED
403491040011	403491040121	8 PMED
403601030011	403601030111	8 PMED
403601030011	403601030121	8 PMED
403601030011	403601030131	8 PMED
403601030011	403601030141	8 PMED
403691020021	403691020041	1 MVIS
403691020021	403691020051	1 MVIS
403691020021	403691020061	1 MVIS
403691020021	403691020071	1 MVIS
403691020021	403691020081	1 MVIS
403691020021	403691020091	1 MVIS
403691020021	403691020101	1 MVIS
403691020021	403691020111	1 MVIS
403691050021	403691050041	1 MVIS
403691050021	403691050051	1 MVIS
403691060011	403691060011	1 MVIS

CONDIDX	EVNTIDX	EVENTYPE
403691060011	403691060041	8 PMED
403701020061	403701020141	8 PMED
403701020061	403701020161	8 PMED
403701020061	403701020291	8 PMED
403701020061	403701020311	8 PMED
403701020061	403701020351	8 PMED
403751020061	403751020111	8 PMED

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	400011010011	400011010061	8 PMED
2	400011010011	400011010101	8 PMED
3	400011030011	400011030081	8 PMED
4	400441010101	400441010411	8 PMED
5	400501010021	400501010011	8 PMED
6	400501010021	400501010051	8 PMED
7	400501010021	400501010091	8 PMED
8	400501010021	400501010121	8 PMED
9	400521010101	400521010031	1 MVIS
10	400521010101	400521010041	1 MVIS
11	400521010101	400521010131	8 PMED
12	400881020041	400881020021	1 MVIS
13	400881020041	400881020031	1 MVIS
14	400881020041	400881020041	1 MVIS
15	400881020041	400881020051	8 PMED
16	400881020041	400881020061	8 PMED
17	400881020041	400881020071	8 PMED
18	400881020041	400881020081	8 PMED
19	400881020041	400881020091	1 MVIS
20	400881020041	400881020101	1 MVIS
21	400881020041	400881020111	8 PMED
22	401051050011	401051050011	8 PMED
23	401051050011	401051050031	8 PMED
24	401601010041	401601010281	8 PMED
25	401601010041	401601010311	8 PMED
26	401601010041	401601010321	1 MVIS
27	401601010041	401601010331	1 MVIS
28	401601010041	401601010341	1 MVIS
29	401601010041	401601010471	8 PMED
30	401911030011	401911030011	1 MVIS
31	401911030011	401911030021	1 MVIS
32	401911030011	401911030031	1 MVIS
33	401911030011	401911030041	1 MVIS
34	401911030011	401911030051	1 MVIS
35	401911030011	401911030091	8 PMED
36	401911030011	401911030131	1 MVIS
37	401911030011	401911030141	8 PMED
38	402121020011	402121020011	3 EROM
39	402121020011	402121020041	8 PMED
40	402121020011	402121020051	8 PMED
41	402121020011	402121020061	8 PMED
42	402151010011	402151010041	8 PMED
43	402151010011	402151010061	8 PMED
44	402151030011	402151030051	8 PMED
45	402331020051	402331020241	8 PMED
46	402361020011	402361020021	8 PMED
47	402841010081	402841010291	8 PMED
48	403491040011	403491040041	8 PMED
49	403491040011	403491040051	8 PMED
50	403491040011	403491040061	1 MVIS

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                        HC-126I
                Sample SAS Job for Example C
        sample print of unique evntidxs from work.asclnks
```

Obs	EVNTIDX	EVENTYPE
1	400011010061	8 PMED
2	400011010101	8 PMED
3	400011030081	8 PMED
4	400441010411	8 PMED
5	400501010011	8 PMED
6	400501010051	8 PMED
7	400501010091	8 PMED
8	400501010121	8 PMED
9	400521010031	1 MVIS
10	400521010041	1 MVIS
11	400521010131	8 PMED
12	400881020021	1 MVIS
13	400881020031	1 MVIS
14	400881020041	1 MVIS
15	400881020051	8 PMED
16	400881020061	8 PMED
17	400881020071	8 PMED
18	400881020081	8 PMED
19	400881020091	1 MVIS
20	400881020101	1 MVIS
21	400881020111	8 PMED
22	401051050011	8 PMED
23	401051050031	8 PMED
24	401601010281	8 PMED
25	401601010311	8 PMED
26	401601010321	1 MVIS
27	401601010331	1 MVIS
28	401601010341	1 MVIS
29	401601010471	8 PMED
30	401911030011	1 MVIS
31	401911030021	1 MVIS
32	401911030031	1 MVIS
33	401911030041	1 MVIS
34	401911030051	1 MVIS
35	401911030091	8 PMED
36	401911030131	1 MVIS
37	401911030141	8 PMED
38	402121020011	3 EROM
39	402121020041	8 PMED
40	402121020051	8 PMED
41	402121020061	8 PMED
42	402151010041	8 PMED
43	402151010061	8 PMED
44	402151030051	8 PMED
45	402331020241	8 PMED
46	402361020021	8 PMED
47	402841010291	8 PMED
48	403491040041	8 PMED
49	403491040051	8 PMED
50	403491040061	1 MVIS

HC-126I
Sample SAS Job for Example C
sample print of work.asmvis
unique evntidxs from work.asclnks that are non-telephone MVIS (HC-126G) events

Obs	EVNTIDX	EVENTYPE	SEETLKPV	OBXP09X	PERWT09F
1	400521010031	1 MVIS	1	12.79	4936.99
2	400521010041	1 MVIS	1	12.79	4936.99
3	400881020021	1 MVIS	1	213.00	3579.01
4	400881020031	1 MVIS	1	213.00	3579.01
5	400881020041	1 MVIS	1	213.00	3579.01
6	400881020091	1 MVIS	1	4164.52	3579.01
7	400881020101	1 MVIS	1	0.00	3579.01
8	401601010321	1 MVIS	1	20.03	2051.24
9	401601010331	1 MVIS	1	42.84	2051.24
10	401601010341	1 MVIS	1	61.85	2051.24
11	401911030011	1 MVIS	1	107.00	5621.65
12	401911030021	1 MVIS	1	357.64	5621.65
13	401911030031	1 MVIS	1	357.64	5621.65
14	401911030041	1 MVIS	1	357.64	5621.65
15	401911030051	1 MVIS	1	357.64	5621.65
16	401911030131	1 MVIS	1	357.64	5621.65
17	403491040061	1 MVIS	1	0.00	2416.07
18	403691020041	1 MVIS	1	74.09	8028.26
19	403691020051	1 MVIS	1	74.09	8028.26
20	403691020061	1 MVIS	1	74.09	8028.26
21	403691020071	1 MVIS	1	459.04	8028.26
22	403691020081	1 MVIS	1	742.00	8028.26
23	403691020091	1 MVIS	1	61.81	8028.26
24	403691020101	1 MVIS	1	117.03	8028.26
25	403691020111	1 MVIS	1	84.62	8028.26
26	403691050041	1 MVIS	1	81.00	14473.97
27	403691050051	1 MVIS	1	155.00	14473.97
28	403691060011	1 MVIS	1	97.71	12142.93
29	403751020221	1 MVIS	1	87.34	5045.10
30	403751020251	1 MVIS	1	87.34	5045.10
31	403751020261	1 MVIS	1	54.61	5045.10
32	403751020461	1 MVIS	1	37.81	5045.10
33	403751020471	1 MVIS	1	34.19	5045.10
34	403761020011	1 MVIS	1	59.55	10495.66
35	403761020021	1 MVIS	1	59.55	10495.66
36	403761020031	1 MVIS	1	59.55	10495.66
37	403761020181	1 MVIS	1	122.00	10495.66
38	403761020191	1 MVIS	1	242.00	10495.66
39	403761020201	1 MVIS	1	114.40	10495.66
40	403761020211	1 MVIS	1	114.40	10495.66
41	403761020451	1 MVIS	1	78.50	10495.66
42	404001010011	1 MVIS	1	301.27	2642.39
43	404381030071	1 MVIS	1	204.02	2575.50
44	404381030081	1 MVIS	1	153.79	2575.50
45	404381030091	1 MVIS	1	153.79	2575.50
46	404381030101	1 MVIS	1	204.02	2575.50
47	404401020211	1 MVIS	1	52.58	14678.30
48	404401020491	1 MVIS	1	94.16	14678.30
49	404401020541	1 MVIS	1	104.82	14678.30
50	404561010261	1 MVIS	1	84.07	25727.23

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                              HC-126I
                   Sample SAS Job for Example C
  Total medical visit expenditures (excluding telephone) associated with asthma

     Analysis Variable: OBXP09X SUM OF OBSF09X - OBOT09X (IMPUTED)
```

N	Sum
2286	317970.49

Weighted

Analysis Variable: OBXP09X SUM OF OBSF09X - OBOT09X (IMPUTED)

N	Sum
2286	2794538598