

**MEPS HC-094I:  
Appendix to MEPS 2005 Event Files  
HC-094A - HC-094H**

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**Agency for Healthcare Research and Quality  
Center for Financing, Access, and Cost Trends  
540 Gaither Road  
Rockville, MD 20850  
(301) 427-1406**

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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. MEPS oversamples additional policy relevant sub-groups such as Asians and low income households. The linkage of the MEPS to the previous year's NHIS provides additional data for longitudinal analytic purposes.

### **2.0 Medical Provider Component**

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

### **3.0 Survey Management and Data Collection**

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

As soon as data collection and editing are completed, the MEPS survey data are released to the public in staged releases of summary reports, micro data files, and tables via the MEPS Web site: [www.meps.ahrq.gov](http://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-094I, which is the Appendix to MEPS releases HC-094A through HC-094H. This release contains two data files, both of which are provided in ASCII (with related SAS and SPSS programming statements) and SAS versions: 1) the condition-event link file; and 2) the prescribed medicines-event link file. Also included in this release are two tables provided as PDF files: 1) the condition-event frequency table and 2) the utilization and expenditures summary table.

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

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

For more information on MEPS HC survey design see S. Cohen, 1997; J. Cohen, 1997; and S. Cohen, 1996. For information on the MEPS MPC design, see S. Cohen, 1998. Both reports, along with a copy of the survey instruments used to collect the information on this file, are available on the MEPS Web site at the following address: [www.meps.ahrq.gov](http://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 2005 event-level data files. File 1, the H94IF1 or CLNK file, is used for linking the MEPS condition file with the MEPS event files; File 2, the H94IF2 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:

<b>IDENTIFIER</b>	<b>DESCRIPTION</b>
Name	Variable name (maximum of 8 characters)
Description	Variable descriptor (maximum of 40 characters)

Format	Number of bytes
Type	Type of data: numeric (indicated by NUM) or character (indicated by CHAR)
Start	Beginning column position of variable in record
End	Ending column position of variable in record

## 2.2 Variable Naming and Source

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

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

File 1 (H94IF1) or the CLNK file, contains the variables needed to link each record on the MEPS 2005 condition file, HC-096, with one or more records on the MEPS 2005 event files, HC-094A through HC-094H. 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 2005 Condition file, HC-096. 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 2005 event files, HC-094B through HC-094H. (EVNTIDX is not included on the 2005 Prescription Medicines event file, HC-094A; 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-094G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-094F
- 3 = EROM – emergency room visit event contained on MEPS release HC-094E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-094D
- 7 = HVIS – home health visit event contained on MEPS release HC-094H
- 8 = PMED – prescribed medicines event contained on MEPS release HC-094A

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

File 2 (H94IF2) or the RXLK file, contains the variables needed to link each record on the MEPS 2005 prescribed medicines file, HC-094A, with one or more records on the MEPS 2005 event files, HC-094B and HC-094D through HC-094G. 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 2005 event files, HC-094B through HC-094G. 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-094A 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-094A 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-094G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-094F
- 3 = EROM – emergency room visit event contained on MEPS release HC-094E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-094D
- 5 = DVIS – dental visit event contained on MEPS release HC-094B

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

## 2.5 2005 Condition-Event Frequency Table

Table 1 contains the MEPS 2005 Condition-Event Frequency table. This table contains unweighted and weighted counts of records on the MEPS 2005 event files, HC-094A through HC-094H, for each of the condition, procedure and clinical classification codes contained on the



MEPS 2005 condition file, HC-096. 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-096) and the Appendix to the Event Files (HC-094I) 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 2005 MEPS PUFs, these updates will not be reflected in the 2005 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-096 documentation.

## **2.6 2005 Utilization and Expenditures Summary Table**

Table 2 contains the MEPS 2005 Utilization and Expenditures Summary table. This table contains statistics for all of the utilization and expenditure variables contained on the MEPS 2005 Full Year Use and Expenditure Data file, HC-097. For each of these variables, the following statistics are provided from the HC-097 file, and from the corresponding event-level file(s) HC-094A through HC-094H:

Number of persons with positive person-level weight (PERWT05F) and with value GT 0 for that variable

Weighted sum of the variable

Weighted mean of the variable

The table also includes the technical specifications used to construct each of the person-level HC-097 variables from the event-level files.

## **3.0 Merging/Linking MEPS Data Files**

This section provides information on using each of the two HC-094I files, RXLK and CLNK, to link with the files contained in MEPS releases HC-096 and HC-094A through HC-094H. 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 RXLK and CLNK Files with the Medical Conditions File (HC-096), the Prescribed Medicines and Office-Based Medical Provider Visits Event Files (HC-094A and HC-094G)**

This example calculates the total expenditures for prescribed medicines associated with office-based medical provider visits for asthma, using these files: the condition file (HC-096), the CLNK file (HC-094IF1), the office-based medical provider visit event file (HC-094G), the RXLK file (HC-094IF2), and the prescribed medicines event file (HC-094A). It includes the following major steps:

1. From HC-096 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-094G 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-094G 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-094A linked to those visits.
6. Using these record IDs obtain the linked records from the HC-094A 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-094IF1) with the Medical Conditions File (HC-096) and the Prescribed Medicines Event File (HC-094A)**

This example calculates the total expenditure for prescribed medicines associated with asthma, using the condition file (HC-096), the CLNK file (HC-094IF1) and the prescribed medicines event file (HC-094A). It includes the following major steps:

1. From HC-096 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-094A 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-096) and Office-Based Medical Provider Visits Event File (HC-094G)**

This example calculates the total expenditures for office-based medical provider visits associated with asthma, using the condition file (HC-096), the CLNK file (HC-094IF1) and the office-based medical provider visits event file (HC-094G). It includes the following major steps:

1. From HC-096 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-094G 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-094G records, identify only those visits which were for asthma and calculate the weighted mean of the expenditure variable.

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

### **3.4 Limitations/Caveats of the CLNK File**

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

### **3.5 Limitations/Caveats of the RXLK File**

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

### **3.6 Pooling Annual Files**

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

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

### **3.7 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 2004-05), 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**

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

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

## Appendix A - Clinical Classification Software-DIAGNOSES (January 1980 through September 2006)<sup>1</sup>

### 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

<sup>1</sup> Revised 11/18/05

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

**4 Mycoses**

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

**5 HIV infection**

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

**6 Hepatitis**

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

**7 Viral infection**

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

**8 Other infections; including parasitic**

080	0810	0811	0812	0819	0820	0821	0822	0823	08240	08241	08249
0828	0829	0831	0832	0838	0839	0840	0841	0842	0843	0844	0845
0846	0847	0848	0849	0850	0851	0852	0853	0854	0855	0859	0860
0861	0862	0863	0864	0865	0869	0870	0871	0879	0880	0888	08881
08882	08889	0889	1000	10089	1009	101	1020	1021	1022	1023	1024
1025	1026	1027	1028	1029	1030	1031	1032	1033	1039	1040	1048
1049	1200	1201	1202	1203	1208	1209	1210	1211	1212	1213	1214
1215	1216	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227
1228	1229	1230	1231	1232	1233	1234	1235	1236	1238	1239	124
1250	1251	1252	1253	1254	1255	1256	1257	1259	1260	1261	1262
1263	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278
1279	1280	1281	1288	1289	129	1305	1307	1308	1309	13100	13101
13102	13103	13109	1318	1319	1320	1321	1322	1323	1329	1330	1338
1339	1340	1341	1342	1348	1349	135	1360	1361	1362	1364	1365
1368	1369	1398	V120	V1200	V1203	V1209					

**9 Sexually transmitted infections (not HIV or hepatitis)**

0900	0901	0902	0903	09040	09041	09042	09049	0905	0906	0907	0909
0910	0911	0912	0913	0914	09150	09151	09152	09161	09162	09169	0917
09181	09182	09189	0919	0920	0929	0930	0931	09320	09321	09322	09323
09324	09381	09382	09389	0939	0940	0941	0942	0943	09481	09482	09483
09484	09485	09486	09487	09489	0949	0950	0951	0952	0953	0954	0955
0956	0957	0958	0959	096	0970	0971	0979	0980	09810	09811	09812
09813	09814	09815	09816	09817	09819	0982	09830	09831	09832	09833	09834
09835	09836	09837	09839	09840	09841	09842	09843	09849	09850	09851	09852
09853	09859	0986	0987	09881	09882	09883	09884	09885	09886	09889	0990
0991	0992	0993	0994	09940	09941	09949	09950	09951	09952	09953	09954
09955	09956	09959	0998	0999							

**10 Immunizations and screening for infectious disease**

7955	7956	V010	V011	V012	V013	V014	V015	V016	V017	V0171	V0179
V018	V0181	V0182	V0183	V0184	V0189	V019	V020	V021	V022	V023	V024
V025	V0251	V0252	V0259	V026	V0260	V0261	V0262	V0269	V027	V028	V029
V030	V031	V032	V033	V034	V035	V036	V037	V038	V0381	V0382	V0389
V039	V040	V041	V042	V043	V044	V045	V046	V047	V048	V0481	V0482
V0489	V050	V051	V052	V053	V054	V058	V059	V060	V061	V062	V063
V064	V065	V066	V068	V069	V286	V712	V7182	V7183	V730	V731	V732
V733	V734	V735	V736	V738	V7388	V7389	V739	V7398	V7399	V740	V741
V742	V743	V744	V745	V746	V748	V749	V750	V751	V752	V753	V754
V755	V756	V757	V758	V759							

**11 Cancer of head and neck**

1400	1401	1403	1404	1405	1406	1408	1409	1410	1411	1412	1413
1414	1415	1416	1418	1419	1420	1421	1422	1428	1429	1430	1431
1438	1439	1440	1441	1448	1449	1450	1451	1452	1453	1454	1455
1456	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468
1469	1470	1471	1472	1473	1478	1479	1480	1481	1482	1483	1488
1489	1490	1491	1498	1499	1600	1601	1602	1603	1604	1605	1608
1609	1610	1611	1612	1613	1618	1619	1950	2300	2310	V1001	V1002
V1021											

**12 Cancer of esophagus**

1500	1501	1502	1503	1504	1505	1508	1509	2301	V1003		
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**13 Cancer of stomach**

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

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

**15 Cancer of rectum and anus**

1540	1541	1542	1543	1548	2304	2305	2306	V1006			
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<b>16</b>	<b>Cancer of liver and intrahepatic bile duct</b>										
1550	1551	1552	2308	V1007							
<b>17</b>	<b>Cancer of pancreas</b>										
1570	1571	1572	1573	1574	1578	1579					
<b>18</b>	<b>Cancer of other GI organs; peritoneum</b>										
1520	1521	1522	1523	1528	1529	1560	1561	1562	1568	1569	1580
1588	1589	1591	1598	1599	2307	2309	V1000	V1009			
<b>19</b>	<b>Cancer of bronchus; lung</b>										
1622	1623	1624	1625	1628	1629	2312	V1011				
<b>20</b>	<b>Cancer; other respiratory and intrathoracic</b>										
1620	1630	1631	1638	1639	1650	1658	1659	2311	2318	2319	V1012
V1020	V1022										
<b>21</b>	<b>Cancer of bone and connective tissue</b>										
1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710	1712
1713	1714	1715	1716	1717	1718	1719					
<b>22</b>	<b>Melanomas of skin</b>										
1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	V1082	
<b>23</b>	<b>Other non-epithelial cancer of skin</b>										
1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	2320	2321
2322	2323	2324	2325	2326	2327	2328	2329	V1083			
<b>24</b>	<b>Cancer of breast</b>										
1740	1741	1742	1743	1744	1745	1746	1748	1749	1750	1759	2330
V103											
<b>25</b>	<b>Cancer of uterus</b>										
179	1820	1821	1828	2332	V1042						
<b>26</b>	<b>Cancer of cervix</b>										
1800	1801	1808	1809	2331	7950	V1041					
<b>27</b>	<b>Cancer of ovary</b>										
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						
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**41 Cancer; other and unspecified primary**

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

**42 Secondary malignancies**

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

**43 Malignant neoplasm without specification of site**

1990	1991										
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**44 Neoplasms of unspecified nature or uncertain behavior**

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

**45 Maintenance chemotherapy; radiotherapy**

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

2180 2181 2182 2189 2190 2191 2198 2199

**47 Other and unspecified benign neoplasm**

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

**48 Thyroid disorders**

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

**49 Diabetes mellitus without complication**

25000 25001 7902 79021 79022 79029 7915 7916 V4585 V5391 V6546

**50 Diabetes mellitus with complications**

25002 25003 25010 25011 25012 25013 25020 25021 25022 25023 25030 25031  
25032 25033 25040 25041 25042 25043 25050 25051 25052 25053 25060 25061  
25062 25063 25070 25071 25072 25073 25080 25081 25082 25083 25090 25091  
25092 25093

**51 Other endocrine disorders**

2510 2511 2512 2513 2514 2515 2518 2519 2520 25200 25201 25202  
25208 2521 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537  
2538 2539 2540 2541 2548 2549 2550 2551 25510 25511 25512 25513  
25514 2552 2553 2554 2555 2556 2558 2559 2560 2561 2562 2563  
2564 2568 2569 2570 2571 2572 2578 2579 2580 2581 2588 2589  
2590 2591 2592 2593 2594 2595 2598 2599 7946

**52 Nutritional deficiencies**

260 261 262 2630 2631 2632 2638 2639 2640 2641 2642 2643  
2644 2645 2646 2647 2648 2649 2650 2651 2652 2660 2661 2662  
2669 267 2680 2681 2682 2689 2690 2691 2692 2693 2698 2699  
7994 V121

**53 Disorders of lipid metabolism**

2720 2721 2722 2723 2724

**54 Gout and other crystal arthropathies**

2740	27410	27411	27419	27481	27482	27489	2749	71210	71211	71212	71213
71214	71215	71216	71217	71218	71219	71220	71221	71222	71223	71224	71225
71226	71227	71228	71229	71230	71231	71232	71233	71234	71235	71236	71237
71238	71239	71280	71281	71282	71283	71284	71285	71286	71287	71288	71289
71290	71291	71292	71293	71294	71295	71296	71297	71298	71299		

**55 Fluid and electrolyte disorders**

2760	2761	2762	2763	2764	2765	27650	27651	27652	2766	2767	2768
2769											

**56 Cystic fibrosis**

27700	27701	27702	27703	27709							
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**57 Immunity disorders**

27900	27901	27902	27903	27904	27905	27906	27909	27911	27912	27913	2792
2793	2794	2798	2799								

**58 Other nutritional; endocrine; and metabolic disorders**

2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711
2712	2713	2714	2718	2719	2725	2726	2727	2728	2729	2730	2731
2732	2733	2734	2738	2739	2750	2751	2752	2753	2754	27540	27541
27542	27549	2758	2759	2771	2772	2773	2774	2775	2776	2777	2778
27781	27782	27784	27785	27786	27787	27789	2779	2780	27800	27801	27802
2781	2782	2783	2784	2788	7831	7832	78321	78322	7833	7834	78340
78341	78342	78343	7835	7837	7839	7947	7957	79579	V122	V850	V8521
V8522	V8523	V8524	V8525	V8530	V8531	V8532	V8533	V8534	V8535	V8536	V8537
V8538	V8539	V854									

**59 Deficiency and other anemia**

2800	2801	2808	2809	2810	2811	2812	2813	2814	2818	2819	2820
2821	2822	2823	2824	28249	2827	2828	2829	2830	2831	28310	28311
28319	2832	2839	2840	2848	2849	2850	28521	28522	28529	2858	2859

**60 Acute posthemorrhagic anemia**

2851											
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**61 Sickle cell anemia**

28241	28242	2825	28260	28261	28262	28263	28264	28268	28269		
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**62 Coagulation and hemorrhagic disorders**

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

**63 Diseases of white blood cells**

2880 2881 2882 2883 2888 2889

**64 Other hematologic conditions**2890 2894 28950 28951 28952 28959 2896 2897 2898 28989 2899 7900  
79001 79009 V123 V582**76 Meningitis (except that caused by tuberculosis or sexually transmitted disease)**00321 0360 0470 0471 0478 0479 0490 0491 0530 05472 0721 10081  
11283 1142 11501 11511 11591 3200 3201 3202 3203 3207 3208 32081  
32082 32089 3209 3210 3211 3212 3213 3214 3218 3220 3221 3222  
3229**77 Encephalitis (except that caused by tuberculosis or sexually transmitted disease)**0361 0462 0498 0499 0520 0543 0550 05601 0620 0621 0622 0623  
0624 0625 0628 0629 0630 0631 0632 0638 0639 064 0662 0722  
1300 1390 3230 3231 3232 3234 3235 3236 3237 3238 3239**78 Other CNS infection and poliomyelitis**04500 04501 04502 04503 04510 04511 04512 04513 04520 04521 04522 04523  
04590 04591 04592 04593 0460 0461 0463 0468 0469 048 138 3240  
3241 3249 326 V1202**79 Parkinson`s disease**

3320

**80 Multiple sclerosis**

340

**81 Other hereditary and degenerative nervous system conditions**3300 3301 3302 3303 3308 3309 3313 3314 3317 33181 33189 3319  
3330 3331 3332 3333 3334 3335 3336 3337 33381 33382 33383 33384  
33389 33390 33391 33392 33393 33399 3340 3341 3342 3343 3344 3348  
3349 3350 33510 33511 33519 33520 33521 33522 33523 33524 33529 3358  
3359 3360 3361 3362 3363 3368 3369 3370 3371 3373 3379**82 Paralysis**3420 34200 34201 34202 3421 34210 34211 34212 34280 34281 34282 3429  
34290 34291 34292 3430 3431 3432 3433 3434 3438 3439 3440 34400  
34401 34402 34403 34404 34409 3441 3442 3443 34430 34431 34432 3444  
34440 34441 34442 3445 34460 3448 34481 34489 3449 7814**83 Epilepsy; convulsions**3450 34500 34501 3451 34510 34511 3452 3453 3454 34540 34541 3455  
34550 34551 3456 34560 34561 3457 34570 34571 3458 34580 34581 3459  
34590 34591 7803 78031 78039

**84 Headache; including migraine**

3460 34600 34601 3461 34610 34611 3462 34620 34621 3468 34680 34681  
3469 34690 34691 7840

**85 Coma; stupor; and brain damage**

3481 7800 78001 78003 78009

**86 Cataract**

36600 36601 36602 36603 36604 36609 36610 36611 36612 36613 36614 36615  
36616 36617 36618 36619 36620 36621 36622 36623 36630 36631 36632 36633  
36634 36641 36642 36643 36644 36645 36646 36650 36651 36652 36653 3668  
3669 V431

**87 Retinal detachments; defects; vascular occlusion; and retinopathy**

36100 36101 36102 36103 36104 36105 36106 36107 36110 36111 36112 36113  
36114 36119 3612 36130 36131 36132 36133 36181 36189 3619 36201 36202  
36203 36204 36205 36206 36207 36210 36211 36212 36213 36214 36215 36216  
36217 36218 36221 36229 36230 36231 36232 36233 36234 36235 36236 36237  
36240 36241 36242 36243 36250 36251 36252 36253 36254 36255 36256 36257  
36260 36261 36262 36263 36264 36265 36266 36270 36271 36272 36273 36274  
36275 36276 36277 36281 36282 36283 36284 36285 36289 3629

**88 Glaucoma**

36500 36501 36502 36503 36504 36510 36511 36512 36513 36514 36515 36520  
36521 36522 36523 36524 36531 36532 36541 36542 36543 36544 36551 36552  
36559 36560 36561 36562 36563 36564 36565 36581 36582 36583 36589 3659

**89 Blindness and vision defects**

3670 3671 36720 36721 36722 36731 36732 3674 36751 36752 36753 36781  
36789 3679 36800 36801 36802 36803 36810 36811 36812 36813 36814 36815  
36816 3682 36830 36831 36832 36833 36834 36840 36841 36842 36843 36844  
36845 36846 36847 36851 36852 36853 36854 36855 36859 36860 36861 36862  
36863 36869 3688 3689 36900 36901 36902 36903 36904 36905 36906 36907  
36908 36910 36911 36912 36913 36914 36915 36916 36917 36918 36920 36921  
36922 36923 36924 36925 3693 3694 36960 36961 36962 36963 36964 36965  
36966 36967 36968 36969 36970 36971 36972 36973 36974 36975 36976 3698  
3699 V410

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

0213 03281 05320 05321 05322 05329 05440 05441 05442 05443 05444 05449  
05571 0760 0761 0769 0770 0771 0772 0773 0774 0778 0779 07798  
07799 11502 11512 11592 1301 1302 1391 36000 36001 36002 36003 36004  
36011 36012 36013 36014 36019 36300 36301 36303 36304 36305 36306 36307  
36308 36310 36311 36312 36313 36314 36315 36320 36321 36322 36400 36401  
36402 36403 36404 36405 36410 36411 36421 36422 36423 36424 3643 37020  
37021 37022 37023 37024 37031 37032 37033 37034 37035 37040 37044 37049  
37050 37052 37054 37055 37059 3708 3709 37200 37201 37202 37203 37204

37205	37210	37211	37212	37213	37214	37215	37220	37221	37222	37230	37231
37233	37239	37300	37301	37302	37311	37312	37313	37331	37332	37333	37334
3734	3735	3736	3738	3739	37500	37501	37502	37503	37530	37531	37532
37533	37541	37542	37543	37600	37601	37602	37603	37604	37610	37611	37612
37613	37730	37731	37732	37733	37734	37739	37900	37901	37902	37903	37904
37905	37906	37907	37909								

**91 Other eye disorders**

36020	36021	36023	36024	36029	36030	36031	36032	36033	36034	36040	36041
36042	36043	36044	36050	36051	36052	36053	36054	36055	36059	36060	36061
36062	36063	36064	36065	36069	36081	36089	3609	36330	36331	36332	36333
36334	36335	36340	36341	36342	36343	36350	36351	36352	36353	36354	36355
36356	36357	36361	36362	36363	36370	36371	36372	3638	3639	36441	36442
36451	36452	36453	36454	36455	36456	36457	36459	36460	36461	36462	36463
36464	36470	36471	36472	36473	36474	36475	36476	36477	3648	3649	37000
37001	37002	37003	37004	37005	37006	37007	37060	37061	37062	37063	37064
37100	37101	37102	37103	37104	37105	37110	37111	37112	37113	37114	37115
37116	37120	37121	37122	37123	37124	37130	37131	37132	37133	37140	37141
37142	37143	37144	37145	37146	37148	37149	37150	37151	37152	37153	37154
37155	37156	37157	37158	37160	37161	37162	37170	37171	37172	37173	37181
37182	37189	3719	37240	37241	37242	37243	37244	37245	37250	37251	37252
37253	37254	37255	37256	37261	37262	37263	37264	37271	37272	37273	37274
37275	3728	37281	37289	3729	3732	37400	37401	37402	37403	37404	37405
37410	37411	37412	37413	37414	37420	37421	37422	37423	37430	37431	37432
37433	37434	37441	37443	37444	37445	37446	37450	37451	37452	37453	37454
37455	37456	37481	37482	37483	37484	37485	37486	37487	37489	3749	37511
37512	37513	37514	37515	37516	37520	37521	37522	37551	37552	37553	37554
37555	37556	37557	37561	37569	37581	37589	3759	37621	37622	37630	37631
37632	37633	37634	37635	37636	37640	37641	37642	37643	37644	37645	37646
37647	37650	37651	37652	3766	37681	37682	37689	3769	37700	37701	37702
37703	37704	37710	37711	37712	37713	37714	37715	37716	37721	37722	37723
37724	37741	37742	37749	37751	37752	37753	37754	37761	37762	37763	37771
37772	37773	37775	3779	37800	37801	37802	37803	37804	37805	37806	37807
37808	37810	37811	37812	37813	37814	37815	37816	37817	37818	37820	37821
37822	37823	37824	37830	37831	37832	37833	37834	37835	37840	37841	37842
37843	37844	37845	37850	37851	37852	37853	37854	37855	37856	37860	37861
37862	37863	37871	37872	37873	37881	37882	37883	37884	37885	37886	37887
3789	37911	37912	37913	37914	37915	37916	37919	37921	37922	37923	37924
37925	37926	37929	37931	37932	37933	37934	37939	37940	37941	37942	37943
37945	37946	37949	37950	37951	37952	37953	37954	37955	37956	37957	37958
37959	3798	37990	37991	37992	37993	37999	78193	V411	V425	V430	V456
V4561	V4569	V522	V531	V720							

**92 Otitis media and related conditions**

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



**93 Conditions associated with dizziness or vertigo**

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

**94 Other ear and sense organ disorders**

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

**95 Other nervous system disorders**

325	3321	33720	33721	33722	33729	3410	3411	3418	3419	34461	347
34700	34701	34710	34711	3480	3482	3483	34830	34831	34839	3484	3485
3488	3489	3492	34981	34982	34989	3499	3501	3502	3508	3509	3510
3511	3518	3519	3520	3521	3522	3523	3524	3525	3526	3529	3530
3531	3532	3533	3534	3535	3536	3538	3539	3540	3541	3542	3543
3544	3545	3548	3549	3550	3551	3552	3553	3554	3555	3556	3557
35571	35579	3558	3559	3560	3561	3562	3563	3564	3568	3569	3570
3571	3572	3573	3574	3575	3576	3577	3578	35781	35782	35789	3579
3580	35800	35801	3581	3582	3588	3589	3590	3591	3592	3593	3594
3595	3596	3598	35981	35989	3599	7810	7811	7812	7813	7817	7818
7820	7843	7845	78460	78461	78469	7920	7930	79400	79401	79402	79409
79410	79411	79412	79413	79414	79415	79416	79417	79419	7961	V124	V1240
V1241	V1242	V1249	V415	V452	V484	V485	V493	V530	V5301	V5302	V5309

**96 Heart valve disorders**

3940	3941	3942	3949	3950	3951	3952	3959	3960	3961	3962	3963
3968	3969	3970	3971	3979	4240	4241	4242	4243	42490	42491	42499
7852	7853	V422	V433								

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

03282	03640	03641	03642	03643	07420	07421	07422	07423	11281	11503	11504
11513	11514	11593	11594	1303	3910	3911	3912	3918	3919	3920	393
3980	39890	39899	4200	42090	42091	42099	4210	4211	4219	4220	42290
42291	42292	42293	42299	4230	4231	4232	4238	4239	4250	4251	4252
4253	4254	4255	4257	4258	4259	4290					

**98 Essential hypertension**

4011	4019
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**99 Hypertension with complications and secondary hypertension**

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

**100 Acute myocardial infarction**

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

**101 Coronary atherosclerosis and other heart disease**

4110 4111 4118 41181 41189 412 4130 4131 4139 4140 41400 41401  
41403 41406 4148 4149 V4581 V4582

**102 Nonspecific chest pain**

78650 78651 78659

**103 Pulmonary heart disease**

4150 4151 41519 4160 4161 4168 4169 4170 4171 4178 4179

**104 Other and ill-defined heart disease**

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

**105 Conduction disorders**

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

**106 Cardiac dysrhythmias**

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

**107 Cardiac arrest and ventricular fibrillation**

42741 42742 4275

**108 Congestive heart failure; nonhypertensive**

39891 4280 4281 42820 42821 42822 42823 42830 42831 42832 42833 42840  
42841 42842 42843 4289

**109 Acute cerebrovascular disease**

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

<b>110</b>	<b>Occlusion or stenosis of precerebral arteries</b>										
4330	43300	4331	43310	4332	43320	4333	43330	4338	43380	4339	43390
<b>111</b>	<b>Other and ill-defined cerebrovascular disease</b>										
4370	4371	4373	4374	4375	4376	4377	4378	4379			
<b>112</b>	<b>Transient cerebral ischemia</b>										
4350	4351	4352	4353	4358	4359						
<b>113</b>	<b>Late effects of cerebrovascular disease</b>										
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								
<b>114</b>	<b>Peripheral and visceral atherosclerosis</b>										
4400	4401	4402	44020	44021	44022	44023	44029	4408	4409	4439	5570
5571	5579										
<b>115</b>	<b>Aortic; peripheral; and visceral artery aneurysms</b>										
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								
<b>116</b>	<b>Aortic and peripheral arterial embolism or thrombosis</b>										
4440	4441	44421	44422	44481	44489	4449	44501	44502	44581	44589	
<b>117</b>	<b>Other circulatory disease</b>										
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									
<b>118</b>	<b>Phlebitis; thrombophlebitis and thromboembolism</b>										
4510	45111	45119	4512	45181	45182	45183	45184	45189	4519	452	4530
4531	4532	4533	45340	45341	45342	4538	4539	V1251	V1252		
<b>119</b>	<b>Varicose veins of lower extremity</b>										
4540	4541	4542	4548	4549							
<b>120</b>	<b>Hemorrhoids</b>										
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								
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**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						
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**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											
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**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						
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**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			
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**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						
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**185 Prolonged pregnancy**

64500	64501	64503	64510	64511	64513	64520	64521	64523			
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**186 Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium**

64800	64801	64802	64803	64804	64880	64881	64882	64883	64884		
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**187 Malposition; malpresentation**

65200	65201	65203	65210	65211	65213	65220	65221	65223	65230	65231	65233
65240	65241	65243	65250	65251	65253	65260	65261	65263	65270	65271	65273
65280	65281	65283	65290	65291	65293	66000	66001	66003			

**188 Fetopelvic disproportion; obstruction**

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

**189 Previous C-section**

65420	65421	65423									
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**190 Fetal distress and abnormal forces of labor**

65630	65631	65633	66100	66101	66103	66110	66111	66113	66120	66121	66123
66130	66131	66133	66140	66141	66143	66190	66191	66193	66200	66201	66203
66210	66211	66213	66220	66221	66223	66230	66231	66233			

**191 Polyhydramnios and other problems of amniotic cavity**

65700	65701	65703	65800	65801	65803	65810	65811	65813	65820	65821	65823
65830	65831	65833	65840	65841	65843	65880	65881	65883	65890	65891	65893
77984	7923										

**192 Umbilical cord complication**

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

**193 OB-related trauma to perineum and vulva**

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

**194 Forceps delivery**

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

65103	65113	65123	65130	65131	65133	65140	65141	65143	65150	65151	65153
65160	65161	65163	65183	65193	65400	65401	65402	65403	65404	65410	65411
65412	65413	65414	65430	65431	65432	65433	65434	65440	65441	65442	65443
65444	65450	65451	65452	65453	65454	65460	65461	65462	65463	65464	65470
65471	65472	65473	65474	65480	65481	65482	65483	65484	65490	65491	65492
65493	65494	65500	65501	65503	65510	65511	65513	65520	65521	65523	65530
65531	65533	65540	65541	65543	65550	65551	65553	65560	65561	65563	65570
65571	65573	65580	65581	65583	65590	65591	65593	65600	65601	65603	65610
65611	65613	65620	65621	65623	65640	65641	65643	65650	65651	65653	65660

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

**196 Normal pregnancy and/or delivery**

650	65100	65101	65110	65111	65120	65121	65170	65171	65173	65180	65181
65190	65191	V220	V221	V222	V240	V241	V242	V270	V271	V272	V273
V274	V275	V276	V277	V279	V724	V7242					

**197 Skin and subcutaneous tissue infections**

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

**198 Other inflammatory condition of skin**

690	69010	69011	69012	69018	6908	69276	69277	6940	6941	6942	6943
6944	6945	69460	69461	6948	6949	6950	6951	6952	6953	6954	69581
69589	6959	6960	6961	6962	6963	6964	6965	6968	6970	6971	6978
6979	6980	6981	6982	6983	6984	6988	6989				

**199 Chronic ulcer of skin**

7070	70700	70701	70702	70703	70704	70705	70706	70707	70709	7071	70710
70711	70712	70713	70714	70715	70719	7078	7079				

**200 Other skin disorders**

69275	700	7010	7011	7012	7013	7014	7015	7018	7019	702	7020
7021	70211	70219	7028	7030	7038	7039	70400	70401	70402	70409	7041
7042	7043	7048	7049	7050	7051	70521	70522	70581	70582	70583	70589
7059	7060	7061	7062	7063	7068	7069	7090	70900	70901	70909	7091
7092	7093	7094	7098	7099	7808	7821	7822	V133	V423		

**201 Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease)**

00323	00324	0261	03682	05671	71100	71101	71102	71103	71104	71105	71106
71107	71108	71109	71110	71111	71112	71113	71114	71115	71116	71117	71118
71119	71120	71121	71122	71123	71124	71125	71126	71127	71128	71129	71130
71131	71132	71133	71134	71135	71136	71137	71138	71139	71140	71141	71142
71143	71144	71145	71146	71147	71148	71149	71150	71151	71152	71153	71154
71155	71156	71157	71158	71159	71160	71161	71162	71163	71164	71165	71166
71167	71168	71169	71170	71171	71172	71173	71174	71175	71176	71177	71178
71179	71180	71181	71182	71183	71184	71185	71186	71187	71188	71189	71190
71191	71192	71193	71194	71195	71196	71197	71198	71199	73000	73001	73002
73003	73004	73005	73006	73007	73008	73009	73010	73011	73012	73013	73014
73015	73016	73017	73018	73019	73020	73021	73022	73023	73024	73025	73026
73027	73028	73029	73030	73031	73032	73033	73034	73035	73036	73037	73038
73039	73070	73071	73072	73073	73074	73075	73076	73077	73078	73079	73080
73081	73082	73083	73084	73085	73086	73087	73088	73089	73090	73091	73092
73093	73094	73095	73096	73097	73098	73099					

**202 Rheumatoid arthritis and related disease**

7140	7141	7142	71430	71431	71432	71433	7144	71481	71489	7149	7200
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**203 Osteoarthritis**

71500	71504	71509	71510	71511	71512	71513	71514	71515	71516	71517	71518
71520	71521	71522	71523	71524	71525	71526	71527	71528	71530	71531	71532
71533	71534	71535	71536	71537	71538	71580	71589	71590	71591	71592	71593
71594	71595	71596	71597	71598	V134						

**204 Other non-traumatic joint disorders**

7130	7131	7132	7133	7134	7135	7136	7137	7138	71600	71601	71602
71603	71604	71605	71606	71607	71608	71609	71620	71621	71622	71623	71624
71625	71626	71627	71628	71629	71630	71631	71632	71633	71634	71635	71636
71637	71638	71639	71640	71641	71642	71643	71644	71645	71646	71647	71648
71649	71650	71651	71652	71653	71654	71655	71656	71657	71658	71659	71660
71661	71662	71663	71664	71665	71666	71667	71668	71680	71681	71682	71683
71684	71685	71686	71687	71688	71689	71690	71691	71692	71693	71694	71695
71696	71697	71698	71699	71810	71811	71812	71813	71814	71815	71817	71818
71819	71820	71821	71822	71823	71824	71825	71826	71827	71828	71829	71850
71851	71852	71853	71854	71855	71856	71857	71858	71859	71860	71865	71870
71871	71872	71873	71874	71875	71876	71877	71878	71879	71880	71881	71882
71883	71884	71885	71886	71887	71888	71889	71890	71891	71892	71893	71894
71895	71897	71898	71899	71900	71901	71902	71903	71904	71905	71906	71907
71908	71909	71910	71911	71912	71913	71914	71915	71916	71917	71918	71919
71920	71921	71922	71923	71924	71925	71926	71927	71928	71929	71930	71931
71932	71933	71934	71935	71936	71937	71938	71939	71940	71941	71942	71943

71944	71945	71946	71947	71948	71949	71950	71951	71952	71953	71954	71955
71956	71957	71958	71959	71960	71961	71962	71963	71964	71965	71966	71967
71968	71969	7197	71970	71975	71976	71977	71978	71979	71980	71981	71982
71983	71984	71985	71986	71987	71988	71989	71990	71991	71992	71993	71994
71995	71996	71997	71998	71999							

**205 Spondylosis; intervertebral disc disorders; other back problems**

7201	7202	72081	72089	7209	7210	7211	7212	7213	72141	72142	7215
7216	7217	7218	72190	72191	7220	72210	72211	7222	72230	72231	72232
72239	7224	72251	72252	7226	72270	72271	72272	72273	72280	72281	72282
72283	72290	72291	72292	72293	7230	7231	7232	7233	7234	7235	7236
7237	7238	7239	72400	72401	72402	72409	7241	7242	7243	7244	7245
7246	72470	72471	72479	7248	7249						

**206 Osteoporosis**

73300	73301	73302	73303	73309							
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**207 Pathological fracture**

7331	73310	73311	73312	73313	73314	73315	73316	73319	73393	73394	73395
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**208 Acquired foot deformities**

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

**209 Other acquired deformities**

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

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

7100	7101	7102	7103	7104	7108	7109					
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**211 Other connective tissue disease**

32752	56731	7105	725	7260	72610	72611	72612	72619	7262	72630	72631
72632	72633	72639	7264	7265	72660	72661	72662	72663	72664	72665	72669
72670	72671	72672	72673	72679	7268	72690	72691	72700	72701	72702	72703
72704	72705	72706	72709	7272	7273	72740	72741	72742	72743	72749	72750
72751	72759	72760	72761	72762	72763	72764	72765	72766	72767	72768	72769
72781	72782	72783	72789	7279	7280	72810	72811	72812	72813	72819	7282
7283	7284	7285	7286	72871	72879	72881	72882	72883	72884	72885	72886
72887	72888	72889	7289	7290	7291	7292	72930	72931	72939	7294	7295
7296	72981	72982	72989	7299	7819	78191	78192	78194	78199	7937	V135
V436	V4360	V4361	V4362	V4363	V4364	V4365	V4366	V4369	V437	V454	V481
V482	V483	V490	V491	V492	V495	V4960	V4961	V4962	V4963	V4964	V4965
V4966	V4967	V4970	V4971	V4972	V4973	V4974	V4975	V4976	V4977	V537	

**212 Other bone disease and musculoskeletal deformities**

7310	7311	7312	7318	7320	7321	7322	7323	7324	7325	7326	7327
7328	7329	73320	73321	73322	73329	7333	73340	73341	73342	73343	73344
73349	7335	7336	7337	73381	73382	73390	73391	73392	73399	73730	73731
73732	7390	7391	7392	7393	7394	7395	7396	7397	7398	7399	V424
V486	V487	V494									

**213 Cardiac and circulatory congenital anomalies**

7450	74510	74511	74512	74519	7452	7453	7454	7455	74560	74561	74569
7457	7458	7459	74600	74601	74602	74609	7461	7462	7463	7464	7465
7466	7467	74681	74682	74683	74684	74685	74686	74687	74689	7469	7470
74710	74711	74720	74721	74722	74729	7473	74740	74741	74742	74749	7475
7476	74760	74761	74762	74763	74764	74769	74781	74782	74783	74789	7479

**214 Digestive congenital anomalies**

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

**215 Genitourinary congenital anomalies**

7520	75210	75211	75219	7522	7523	75240	75241	75242	75249	7525	75251
75252	7526	75261	75262	75263	75264	75265	75269	7527	7528	75281	75289
7529	7530	7531	75310	75311	75312	75313	75314	75315	75316	75317	75319
7532	75320	75321	75322	75323	75329	7533	7534	7535	7536	7537	7538
7539	V1361										

**216 Nervous system congenital anomalies**

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

**217 Other congenital anomalies**

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

7584	7585	7586	7587	7588	75881	75889	7589	7590	7591	7592	7593
7594	7595	7596	7597	7598	75981	75982	75983	75989	7599	7952	V136
V1369											

**218 Liveborn**

V300	V3000	V3001	V301	V302	V310	V3100	V3101	V311	V312	V320	V3200
V3201	V321	V322	V330	V3300	V3301	V331	V332	V340	V3400	V3401	V341
V342	V350	V3500	V3501	V351	V352	V360	V3600	V3601	V361	V362	V370
V3700	V3701	V371	V372	V390	V3900	V3901	V391	V392			

**219 Short gestation; low birth weight; and fetal growth retardation**

7640	76400	76401	76402	76403	76404	76405	76406	76407	76408	76409	7641
76410	76411	76412	76413	76414	76415	76416	76417	76418	76419	7642	76420
76421	76422	76423	76424	76425	76426	76427	76428	76429	7649	76490	76491
76492	76493	76494	76495	76496	76497	76498	76499	7650	76500	76501	76502
76503	76504	76505	76506	76507	76508	76509	7651	76510	76511	76512	76513
76514	76515	76516	76517	76518	76519	76520	76521	76522	76523	76524	76525
76526	76527	76528	76529	V2130	V2131	V2132	V2133	V2134	V2135		

**220 Intrauterine hypoxia and birth asphyxia**

7680	7681	7682	7683	7684	7685	7686	7689				
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**221 Respiratory distress syndrome**

769

**222 Hemolytic jaundice and perinatal jaundice**

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

**223 Birth trauma**

7670	7671	76711	76719	7672	7673	7674	7675	7676	7677	7678	7679
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**224 Other perinatal conditions**

7600	7601	7602	7603	7604	7605	7606	76070	76071	76072	76073	76074
76075	76076	76077	76078	76079	7608	7609	7610	7611	7612	7613	7614
7615	7616	7617	7618	7619	7620	7621	7622	7623	7624	7625	7626
7627	7628	7629	7630	7631	7632	7633	7634	7635	7636	7637	7638
76381	76382	76383	76384	76389	7639	7660	7661	7662	76621	76622	7700
7701	77010	77011	77012	77013	77014	77015	77016	77017	77018	7702	7703
7704	7705	7706	7707	7708	77081	77082	77083	77084	77085	77086	77089
7709	7710	7711	7712	7713	7714	7715	7716	7717	7718	77181	77182
77183	77189	7720	7721	77210	77211	77212	77213	77214	7722	7723	7724
7725	7726	7728	7729	7750	7751	7752	7753	7754	7755	7756	7757
7758	7759	7760	7761	7762	7763	7764	7765	7766	7767	7768	7769
7771	7772	7773	7774	7775	7776	7777	7778	7779	7780	7781	7782
7784	7785	7786	7787	7788	7789	7790	7791	7792	7793	7794	7795
7796	7797	7798	77981	77982	77983	77989	7799	78091	78092	V137	V502



**225 Joint disorders and dislocations; trauma-related**

71610	71611	71612	71613	71614	71615	71616	71617	71618	71619	7170	7171
7172	7173	71740	71741	71742	71743	71749	7175	7176	7177	71781	71782
71783	71784	71785	71789	7179	71800	71801	71802	71803	71804	71805	71807
71808	71809	71830	71831	71832	71833	71834	71835	71836	71837	71838	71839
8300	8301	83100	83101	83102	83103	83104	83109	83110	83111	83112	83113
83114	83119	83200	83201	83202	83203	83204	83209	83210	83211	83212	83213
83214	83219	83300	83301	83302	83303	83304	83305	83309	83310	83311	83312
83313	83314	83315	83319	83400	83401	83402	83410	83411	83412	83500	83501
83502	83503	83510	83511	83512	83513	8360	8361	8362	8363	8364	83650
83651	83652	83653	83654	83659	83660	83661	83662	83663	83664	83669	8370
8371	83800	83801	83802	83803	83804	83805	83806	83809	83810	83811	83812
83813	83814	83815	83816	83819	83900	83901	83902	83903	83904	83905	83906
83907	83908	83910	83911	83912	83913	83914	83915	83916	83917	83918	83920
83921	83930	83931	83940	83941	83942	83949	83950	83951	83952	83959	83961
83969	83971	83979	8398	8399	9056						

**226 Fracture of neck of femur (hip)**

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

**227 Spinal cord injury**

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

**228 Skull and face fractures**

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

**229 Fracture of upper limb**

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

81519	81600	81601	81602	81603	81610	81611	81612	81613	8170	8171	8180
8181	8190	8191	9052	V5410	V5411	V5412	V5420	V5421	V5422		

**230 Fracture of lower limb**

82100	82101	82110	82111	82120	82121	82122	82123	82129	82130	82131	82132
82133	82139	8220	8221	82300	82301	82302	82310	82311	82312	82320	82321
82322	82330	82331	82332	82340	82341	82342	82380	82381	82382	82390	82391
82392	8240	8241	8242	8243	8244	8245	8246	8247	8248	8249	8250
8251	82520	82521	82522	82523	82524	82525	82529	82530	82531	82532	82533
82534	82535	82539	8260	8261	8270	8271	9054	V5414	V5415	V5416	V5424
V5425	V5426										

**231 Other fractures**

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

**232 Sprains and strains**

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

**233 Intracranial injury**

80010	80011	80012	80013	80014	80015	80016	80019	80020	80021	80022	80023
80024	80025	80026	80029	80030	80031	80032	80033	80034	80035	80036	80039
80040	80041	80042	80043	80044	80045	80046	80049	80060	80061	80062	80063
80064	80065	80066	80069	80070	80071	80072	80073	80074	80075	80076	80079
80080	80081	80082	80083	80084	80085	80086	80089	80090	80091	80092	80093
80094	80095	80096	80099	80110	80111	80112	80113	80114	80115	80116	80119
80120	80121	80122	80123	80124	80125	80126	80129	80130	80131	80132	80133
80134	80135	80136	80139	80140	80141	80142	80143	80144	80145	80146	80149
80160	80161	80162	80163	80164	80165	80166	80169	80170	80171	80172	80173
80174	80175	80176	80179	80180	80181	80182	80183	80184	80185	80186	80189
80190	80191	80192	80193	80194	80195	80196	80199	80310	80311	80312	80313
80314	80315	80316	80319	80320	80321	80322	80323	80324	80325	80326	80329
80330	80331	80332	80333	80334	80335	80336	80339	80340	80341	80342	80343
80344	80345	80346	80349	80360	80361	80362	80363	80364	80365	80366	80369
80370	80371	80372	80373	80374	80375	80376	80379	80380	80381	80382	80383
80384	80385	80386	80389	80390	80391	80392	80393	80394	80395	80396	80399
80410	80411	80412	80413	80414	80415	80416	80419	80420	80421	80422	80423
80424	80425	80426	80429	80430	80431	80432	80433	80434	80435	80436	80439
80440	80441	80442	80443	80444	80445	80446	80449	80460	80461	80462	80463
80464	80465	80466	80469	80470	80471	80472	80473	80474	80475	80476	80479
80480	80481	80482	80483	80484	80485	80486	80489	80490	80491	80492	80493
80494	80495	80496	80499	8500	8501	85011	85012	8502	8503	8504	8505

8509	85100	85101	85102	85103	85104	85105	85106	85109	85110	85111	85112
85113	85114	85115	85116	85119	85120	85121	85122	85123	85124	85125	85126
85129	85130	85131	85132	85133	85134	85135	85136	85139	85140	85141	85142
85143	85144	85145	85146	85149	85150	85151	85152	85153	85154	85155	85156
85159	85160	85161	85162	85163	85164	85165	85166	85169	85170	85171	85172
85173	85174	85175	85176	85179	85180	85181	85182	85183	85184	85185	85186
85189	85190	85191	85192	85193	85194	85195	85196	85199	85200	85201	85202
85203	85204	85205	85206	85209	85210	85211	85212	85213	85214	85215	85216
85219	85220	85221	85222	85223	85224	85225	85226	85229	85230	85231	85232
85233	85234	85235	85236	85239	85240	85241	85242	85243	85244	85245	85246
85249	85250	85251	85252	85253	85254	85255	85256	85259	85300	85301	85302
85303	85304	85305	85306	85309	85310	85311	85312	85313	85314	85315	85316
85319	85400	85401	85402	85403	85404	85405	85406	85409	85410	85411	85412
85413	85414	85415	85416	85419	9070						

**234 Crushing injury or internal injury**

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

**235 Open wounds of head; neck; and trunk**

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

**236 Open wounds of extremities**

88000	88001	88002	88003	88009	88010	88011	88012	88013	88019	88020	88021
88022	88023	88029	88100	88101	88102	88110	88111	88112	88120	88121	88122

8820	8821	8822	8830	8831	8832	8840	8841	8842	8850	8851	8860
8861	8870	8871	8872	8873	8874	8875	8876	8877	8900	8901	8902
8910	8911	8912	8920	8921	8922	8930	8931	8932	8940	8941	8942
8950	8951	8960	8961	8962	8963	8970	8971	8972	8973	8974	8975
8976	8977	9058	9059	9061							

**237      Complication of device; implant or graft**

41402	41404	41405	41407	44030	44031	44032	56960	56961	56969	99600	99601
99602	99603	99604	99609	9961	9962	99630	99631	99632	99639	9964	99640
99641	99642	99643	99644	99645	99646	99647	99649	99651	99652	99653	99654
99655	99656	99657	99659	9966	99660	99661	99662	99663	99664	99665	99666
99667	99668	99669	9967	99670	99671	99672	99673	99674	99675	99676	99677
99678	99679	99680	99681	99682	99683	99684	99685	99686	99687	99689	99690
99691	99692	99693	99694	99695	99696	99699					

**238      Complications of surgical procedures or medical care**

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

**239      Superficial injury; contusion**

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

**240      Burns**

9065	9066	9067	9068	9069	9400	9401	9402	9403	9404	9405	9409
94100	94101	94102	94103	94104	94105	94106	94107	94108	94109	94110	94111
94112	94113	94114	94115	94116	94117	94118	94119	94120	94121	94122	94123
94124	94125	94126	94127	94128	94129	94130	94131	94132	94133	94134	94135
94136	94137	94138	94139	94140	94141	94142	94143	94144	94145	94146	94147
94148	94149	94150	94151	94152	94153	94154	94155	94156	94157	94158	94159
94200	94201	94202	94203	94204	94205	94209	94210	94211	94212	94213	94214
94215	94219	94220	94221	94222	94223	94224	94225	94229	94230	94231	94232
94233	94234	94235	94239	94240	94241	94242	94243	94244	94245	94249	94250
94251	94252	94253	94254	94255	94259	94300	94301	94302	94303	94304	94305
94306	94309	94310	94311	94312	94313	94314	94315	94316	94319	94320	94321
94322	94323	94324	94325	94326	94329	94330	94331	94332	94333	94334	94335
94336	94339	94340	94341	94342	94343	94344	94345	94346	94349	94350	94351

94352	94353	94354	94355	94356	94359	94400	94401	94402	94403	94404	94405
94406	94407	94408	94410	94411	94412	94413	94414	94415	94416	94417	94418
94420	94421	94422	94423	94424	94425	94426	94427	94428	94430	94431	94432
94433	94434	94435	94436	94437	94438	94440	94441	94442	94443	94444	94445
94446	94447	94448	94450	94451	94452	94453	94454	94455	94456	94457	94458
94500	94501	94502	94503	94504	94505	94506	94509	94510	94511	94512	94513
94514	94515	94516	94519	94520	94521	94522	94523	94524	94525	94526	94529
94530	94531	94532	94533	94534	94535	94536	94539	94540	94541	94542	94543
94544	94545	94546	94549	94550	94551	94552	94553	94554	94555	94556	94559
9460	9461	9462	9463	9464	9465	9470	9471	9472	9473	9474	9478
9479	94800	94810	94811	94820	94821	94822	94830	94831	94832	94833	94840
94841	94842	94843	94844	94850	94851	94852	94853	94854	94855	94860	94861
94862	94863	94864	94865	94866	94870	94871	94872	94873	94874	94875	94876
94877	94880	94881	94882	94883	94884	94885	94886	94887	94888	94890	94891
94892	94893	94894	94895	94896	94897	94898	94899	9490	9491	9492	9493
9494	9495										

**241 Poisoning by psychotropic agents**

9690	9691	9692	9693	9694	9695	9696	9697	9698	9699		
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**242 Poisoning by other medications and drugs**

9090	9095	9600	9601	9602	9603	9604	9605	9606	9607	9608	9609
9610	9611	9612	9613	9614	9615	9616	9617	9618	9619	9620	9621
9622	9623	9624	9625	9626	9627	9628	9629	9630	9631	9632	9633
9634	9635	9638	9639	9640	9641	9642	9643	9644	9645	9646	9647
9648	9649	96500	96501	96502	96509	9651	9654	9655	9656	96561	96569
9657	9658	9659	9660	9661	9662	9663	9664	9670	9671	9672	9673
9674	9675	9676	9678	9679	9680	9681	9682	9683	9684	9685	9686
9687	9689	9700	9701	9708	9709	9710	9711	9712	9713	9719	9720
9721	9722	9723	9724	9725	9726	9727	9728	9729	9730	9731	9732
9733	9734	9735	9736	9738	9739	9740	9741	9742	9743	9744	9745
9746	9747	9750	9751	9752	9753	9754	9755	9756	9757	9758	9760
9761	9762	9763	9764	9765	9766	9767	9768	9769	9770	9771	9772
9773	9774	9778	9779	9780	9781	9782	9783	9784	9785	9786	9788
9789	9790	9791	9792	9793	9794	9795	9796	9797	9799	9952	

**243 Poisoning by nonmedicinal substances**

9091	9800	9801	9802	9803	9808	9809	981	9820	9821	9822	9823
9824	9828	9830	9831	9832	9839	9840	9841	9848	9849	9850	9851
9852	9853	9854	9855	9856	9858	9859	986	9870	9871	9872	9873
9874	9875	9876	9877	9878	9879	9880	9881	9882	9888	9889	9890
9891	9892	9893	9894	9895	9896	9897	9898	98981	98982	98983	98984
98989	9899										

**244 Other injuries and conditions due to external causes**

7960	7990	79901	79902	9071	9073	9074	9075	9079	9085	9086	9089
9092	9094	9099	9300	9301	9302	9308	9309	931	932	9330	9331
9340	9341	9348	9349	9350	9351	9352	936	937	938	9390	9391
9392	9393	9399	9500	9501	9502	9503	9509	9510	9511	9512	9513
9514	9515	9516	9517	9518	9519	9530	9531	9532	9533	9534	9535
9538	9539	9540	9541	9548	9549	9550	9551	9552	9553	9554	9555
9556	9557	9558	9559	9560	9561	9562	9563	9564	9565	9568	9569

9570	9571	9578	9579	9580	9581	9582	9583	9584	9585	9586	9587
9588	9590	95901	95909	9591	95911	95912	95913	95914	95919	9592	9593
9594	9595	9596	9597	9598	9599	990	9910	9911	9912	9913	9914
9915	9916	9918	9919	9920	9921	9922	9923	9924	9925	9926	9927
9928	9929	9930	9931	9932	9933	9934	9938	9939	9940	9941	9942
9943	9944	9945	9946	9947	9948	9949	9951	9955	99550	99551	99552
99553	99554	99555	99559	99580	99581	99582	99583	99584	99585	99589	99590
99591	99592	99593	99594	V155	V156	V1588	V713	V714	V715	V716	

**245 Syncope**

7802

**246 Fever of unknown origin**

7806

**247 Lymphadenitis**

2891 2892 2893 683 7856

**248 Gangrene**

44024 7854

**249 Shock**

78550 78551 78552 78559

**250 Nausea and vomiting**

7870 78701 78702 78703

**251 Abdominal pain**

7890 78900 78901 78902 78903 78904 78905 78906 78907 78909 78960 78961  
78962 78963 78964 78965 78966 78967 78969

**252 Malaise and fatigue**

7807 78071 78079

**253 Allergic reactions**

4771 5186 5583 6910 6918 6920 6921 6922 6923 6924 6925 6926  
69270 69271 69272 69273 69274 69279 69281 69282 69283 69284 69289 6929  
6930 6931 6938 6939 7080 7081 7082 7083 7084 7085 7088 7089  
9950 9953 99560 99561 99562 99563 99564 99565 99566 99567 99568 99569  
9957 V071 V140 V141 V142 V143 V144 V145 V146 V147 V148 V149  
V150 V1501 V1502 V1503 V1504 V1505 V1506 V1507 V1508 V1509 V727

**254 Rehabilitation care; fitting of prostheses; and adjustment of devices**

V520 V521 V524 V528 V529 V538 V570 V571 V572 V5721 V5722 V573  
V574 V5781 V5789 V579 V5882

**255 Administrative/social admission**

V200	V201	V202	V600	V601	V602	V603	V604	V605	V606	V608	V609
V610	V611	V6110	V6111	V6112	V6120	V6121	V6122	V6129	V613	V6141	V6149
V616	V617	V618	V619	V620	V621	V622	V623	V624	V625	V626	V6281
V6282	V6283	V6289	V629	V630	V631	V632	V638	V639	V650	V651	V6511
V6519	V652	V653	V654	V6540	V6541	V6542	V6543	V6544	V6545	V6549	V655
V658	V659	V680	V681	V682	V6881	V6889	V689				

**256 Medical examination/evaluation**

V290	V291	V292	V293	V298	V299	V700	V703	V704	V705	V706	V707
V708	V709	V718	V719	V7231	V7232	V725	V726	V728	V7281	V7282	V7283
V7284	V7285	V7286	V729								

**257 Other aftercare**

V51	V539	V5390	V5399	V548	V5481	V5489	V549	V558	V559	V583	V584
V5841	V5842	V5843	V5844	V5849	V5861	V5862	V5863	V5864	V5865	V5866	V5867
V5869	V5871	V5872	V5873	V5874	V5875	V5876	V5877	V5878	V588	V5881	V5883
V5889	V589	V660	V665	V666	V667	V669	V670	V6700	V6701	V6709	V6751
V6759	V676	V679									

**258 Other screening for suspected conditions (not mental disorders or infectious disease)**

V280	V281	V282	V283	V284	V285	V288	V289	V7181	V7189	V7240	V7241
V760	V761	V7610	V7611	V7612	V7619	V762	V763	V7641	V7642	V7643	V7644
V7645	V7646	V7647	V7649	V7650	V7651	V7652	V768	V7681	V7689	V769	V770
V771	V772	V773	V774	V775	V776	V777	V778	V779	V7791	V7799	V780
V781	V782	V783	V788	V789	V800	V801	V802	V803	V810	V811	V812
V813	V814	V815	V816	V820	V821	V822	V823	V824	V825	V826	V828
V8281	V8289	V829									

**259 Residual codes; unclassified**

3020	32700	32701	32709	32710	32711	32712	32713	32714	32719	32720	32721
32722	32723	32724	32725	32726	32727	32729	32740	32741	32742	32743	32744
32749	32751	32759	3278	78002	7801	78050	78051	78052	78053	78054	78055
78056	78057	78058	78059	7809	78093	78094	78095	78099	7815	7816	7823
78261	78262	7828	7829	7830	7836	7842	7901	7903	7906	7909	79091
79092	79093	79094	79095	79099	7929	7932	7939	7949	7954	7963	7964
7965	7966	7969	7980	7981	7982	7989	7992	7993	7998	79981	79989
7999	V070	V072	V073	V0731	V0739	V078	V079	V1053	V131	V138	V139
V152	V153	V1581	V1584	V1585	V1586	V1587	V1589	V159	V160	V161	V162
V163	V164	V1640	V1641	V1642	V1643	V1649	V165	V1651	V1659	V166	V167
V168	V169	V170	V171	V172	V173	V174	V175	V176	V177	V178	V1781
V1789	V180	V181	V182	V183	V184	V185	V186	V1861	V1869	V187	V188
V189	V190	V191	V192	V193	V194	V195	V196	V197	V198	V210	V211
V212	V218	V219	V418	V419	V428	V4281	V4282	V4283	V4284	V4289	V429
V438	V4381	V4382	V4383	V4389	V447	V448	V449	V4571	V4572	V4573	V4574
V4575	V4576	V4577	V4578	V4579	V4583	V4584	V4589	V460	V468	V469	V470
V471	V472	V479	V480	V488	V489	V498	V4981	V4982	V4983	V4984	V4989
V499	V500	V501	V503	V5041	V5042	V5049	V508	V509	V590	V5901	V5902
V5909	V591	V592	V593	V594	V595	V596	V5970	V5971	V5972	V5973	V5974
V598	V599	V615	V640	V6400	V6401	V6402	V6403	V6404	V6405	V6406	V6407

V6408 V6409 V641 V642 V643 V644 V6441 V6442 V6443 V690 V691 V692  
V693 V694 V695 V698 V699 V8301 V8302 V8381 V8389 V8401 V8402 V8403  
V8404 V8409 V848 V851

**650 Adjustment disorder**

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

**651 Anxiety disorder**

29384 30000 30001 30002 30009 30010 30020 30021 30022 30023 30029 3003  
3005 30089 3009 3080 3081 3082 3083 3084 3089 30981 3130 3131  
31321 31322 3133 31382 31383

**652 Attention-deficit, conduct, and disruptive behavior disorder**

*Conduct disorder*

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

*Oppositional defiant disorder*

31381

*Attention deficit disorder / Attention deficit hyperactivity disorder*

31400 31401 3141 3142 3148 3149

**653 Delirium, dementia, and amnesic and other cognitive disorders**

2900 29010 29011 29012 29013 29020 29021 2903 29040 29041 29042 29043  
2908 2909 2930 2931 2940 2941 29410 29411 2948 2949 3100 3102  
3108 3109 3310 3311 33111 33119 3312 33182 797

**654 Developmental disorders**

*Communication disorders*

3070 3079 31531 31539 V401

*Developmental disabilities*

31501 31502 31509 31532 3155 3158

*Intellectual disabilities*

317 3180 3181 3182 319

*Learning disorders*

31500 3151 3152 3159 V400



*Motor skill disorders*

3154

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

*Elimination disorders*

3076 3077

*Other disorders of infancy, childhood or adolescence*

3073 30921 31323 31389 3139

*Pervasive developmental disorders*

29900 29901 29910 29911 29980 29981 29990 29991

*Tic disorders*

30720 30721 30722 30723

**656 Impulse control disorders, NEC**

31230 31231 31232 31233 31234 31235 31239

**657 Mood disorders**

*Bipolar disorders*

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

*Depressive disorders*

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

**658 Personality disorders**

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

**659 Schizophrenia and other psychotic disorders**

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

**660 Substance-related disorders**

*Alcohol-related disorders*

2910 2911 2912 2913 2914 2915 2918 29181 29182 29189 2919  
30300 30301 30302 30303 30390 30391 30392 30393 30500 30501 30502  
30503

*Substance-related disorders*

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

**661 Miscellaneous mental disorders**

*Dissociative disorders*

30012 30013 30014 30015 3006

*Eating disorders*

3071 30750 30751 30752 30753 30754 30759

*Factitious disorders*

30016 30019

*Mental disorders due to general medical condition not elsewhere classified*

29389 2939 3101

*Other miscellaneous mental conditions*

316 64840 64841 64842 64843 64844 V402 V403 V409 V673

*Psychogenic disorders*

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

*Sexual and gender identify disorders*

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

*Sleep disorders*

30740 30741 30742 30743 30744 30745 30746 30747 30748 30749

*Somatoform disorders*

30011 3007 30081 30082 30780 30781 30789

**662 Suicide and intentional self-inflicted injury**

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

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

*Mental health disorder related codes*

33392 V110 V111 V112 V118 V119 V154 V1541 V1542 V1549 V1582 V663 V701  
V702 V7101 V7102 V7109 V790 V792 V793 V798 V799

*Substance-related disorder codes*

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

**2601 E Codes: Cut/pierce**

E9200 E9201 E9202 E9203 E9204 E9205 E9208 E9209 E956 E966 E974 E986

**2602 E Codes: Drowning/submersion**

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

**2603 E Codes: Fall**

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

**2604 E Codes: Fire/burn**

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

**2605 E Codes: Firearm**

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

**2606 E Codes: Machinery**

E9190 E9191 E9192 E9193 E9194 E9195 E9196 E9197 E9198 E9199

**2607 E Codes: Motor vehicle traffic (MVT)**

E8100	E8101	E8102	E8103	E8104	E8105	E8106	E8107	E8108	E8109	E8110	E8111
E8112	E8113	E8114	E8115	E8116	E8117	E8118	E8119	E8120	E8121	E8122	E8123
E8124	E8125	E8126	E8127	E8128	E8129	E8130	E8131	E8132	E8133	E8134	E8135
E8136	E8137	E8138	E8139	E8140	E8141	E8142	E8143	E8144	E8145	E8146	E8147
E8148	E8149	E8150	E8151	E8152	E8153	E8154	E8155	E8156	E8157	E8158	E8159
E8160	E8161	E8162	E8163	E8164	E8165	E8166	E8167	E8168	E8169	E8170	E8171
E8172	E8173	E8174	E8175	E8176	E8177	E8178	E8179	E8180	E8181	E8182	E8183
E8184	E8185	E8186	E8187	E8188	E8189	E8190	E8191	E8192	E8193	E8194	E8195
E8196	E8197	E8198	E8199	E9585	E9685	E9885					

**2608 E Codes: Pedal cyclist; not MVT**

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

**2609 E Codes: Pedestrian; not MVT**

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

**2610 E Codes: Transport; not MVT**

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

**2611 E Codes: Natural/environment**

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

**2612 E Codes: Overexertion**

E927

**2613 E Codes: Poisoning**

E8500	E8501	E8502	E8503	E8504	E8505	E8506	E8507	E8508	E8509	E851	E8520
E8521	E8522	E8523	E8524	E8525	E8528	E8529	E8530	E8531	E8532	E8538	E8539
E8540	E8541	E8542	E8543	E8548	E8550	E8551	E8552	E8553	E8554	E8555	E8556
E8558	E8559	E856	E857	E8580	E8581	E8582	E8583	E8584	E8585	E8586	E8587
E8588	E8589	E8600	E8601	E8602	E8603	E8604	E8608	E8609	E8610	E8611	E8612
E8613	E8614	E8615	E8616	E8619	E8620	E8621	E8622	E8623	E8624	E8629	E8630
E8631	E8632	E8633	E8634	E8635	E8636	E8637	E8638	E8639	E8640	E8641	E8642
E8643	E8644	E8650	E8651	E8652	E8653	E8654	E8655	E8658	E8659	E8660	E8661
E8662	E8663	E8664	E8665	E8666	E8667	E8668	E8669	E867	E8680	E8681	E8682
E8683	E8688	E8689	E8690	E8691	E8692	E8693	E8694	E8698	E8699	E9500	E9501
E9502	E9503	E9504	E9505	E9506	E9507	E9508	E9509	E9510	E9511	E9518	E9520
E9521	E9528	E9529	E9620	E9621	E9622	E9629	E972	E9800	E9801	E9802	E9803
E9804	E9805	E9806	E9807	E9808	E9809	E9810	E9811	E9818	E9820	E9821	E9828
E9829											

**2614 E Codes: Struck by; against**

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

**2615 E Codes: Suffocation**

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

**2616 E Codes: Adverse effects of medical care**

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

**2617 E Codes: Adverse effects of medical drugs**

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

**2618 E Codes: Other specified and classifiable**

E846	E847	E848	E914	E915	E918	E9210	E9211	E9218	E9219	E9224	E9225
E9230	E9231	E9232	E9238	E9239	E9250	E9251	E9252	E9258	E9259	E9260	E9261
E9262	E9263	E9264	E9265	E9268	E9269	E9283	E9290	E9291	E9292	E9293	E9294
E9295	E9555	E9556	E9557	E9559	E9580	E9584	E9601	E9655	E9656	E9657	E9658
E9659	E9670	E9671	E9672	E9673	E9674	E9675	E9676	E9677	E9678	E9679	E9684
E9686	E9687	E971	E978	E9790	E9791	E9792	E9795	E9796	E9797	E9798	E9799
E9855	E9856	E9857	E9880	E9884	E9900	E9909	E9910	E9911	E9912	E9913	E9919
E992	E993	E994	E996	E9970	E9971	E9972	E9990	E9991			

**2619 E Codes: Other specified; NEC**

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

**2620 E Codes: Unspecified**

E887	E9289	E9299	E9589	E9689	E976	E9889	E9979				
------	-------	-------	-------	-------	------	-------	-------	--	--	--	--

**2621 E Codes: Place of occurrence**

E8490	E8491	E8492	E8493	E8494	E8495	E8496	E8497	E8498	E8499		
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	--	--

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

1

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

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:  
real time 5.17 seconds  
cpu time 0.70 seconds

NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS\SAS 9.1\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1      OPTIONS LS=132 PS=59;
2
3      TITLE1 "HC-094I";
4      TITLE2 "Sample SAS Job for Example A";
5
6      LIBNAME IN "C:\DATA";
```

NOTE: Libref IN was successfully assigned as follows:  
Engine: V9  
Physical Name: C:\DATA

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

NOTE: Format EVENTYPE has been output.

```
22
23     RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):  
real time 0.10 seconds  
cpu time 0.00 seconds

```
24
25     *-----
26     * Get condition records coded as asthma.
```



2

```

27 *-----;
28 DATA ASCONDS;
29     SET IN.H96 (KEEP=CONDIDX CCCODEX);
30     IF CCCODEX="128";
31
32     RUN;

```

NOTE: There were 104855 observations read from the data set IN.H96.  
NOTE: The data set WORK.ASCONDS has 1869 observations and 2 variables.  
NOTE: DATA statement used (Total process time):

real time	0.48 seconds
cpu time	0.15 seconds

```

33
34 *-----
35 * Get the events linked to each of the asthma condition records.
36 *-----;
37 PROC SORT DATA=ASCONDS; BY CONDIDX; RUN;

```

NOTE: There were 1869 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCONDS has 1869 observations and 2 variables.  
NOTE: PROCEDURE SORT used (Total process time):

real time	0.09 seconds
cpu time	0.01 seconds

```

38
39 proc print data=asconds (obs=50);
40     title3 "sample print of work.asconds - sorted by condidx";
41     title4 "COND (H96) records where cccodex=128";
42 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	0.34 seconds
cpu time	0.06 seconds

```

43
44 PROC SORT DATA=IN.H94IF1 OUT=CLNK; BY CONDIDX; RUN;

```

NOTE: There were 343960 observations read from the data set IN.H94IF1.  
NOTE: The data set WORK.CLNK has 343960 observations and 6 variables.  
NOTE: PROCEDURE SORT used (Total process time):

real time	8.65 seconds
cpu time	1.37 seconds

```

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

```

NOTE: There were 343960 observations read from the data set WORK.CLNK.  
NOTE: There were 1869 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCLNKS has 7360 observations and 3 variables.  
NOTE: DATA statement used (Total process time):  
real time 4.21 seconds  
cpu time 0.53 seconds

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

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.  
NOTE: The PROCEDURE PRINT printed pages 2-3.  
NOTE: PROCEDURE PRINT used (Total process time):  
real time 0.12 seconds  
cpu time 0.01 seconds

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

NOTE: There were 7360 observations read from the data set WORK.ASCLNKS.  
NOTE: The data set WORK.ASCLNKS has 7360 observations and 3 variables.  
NOTE: PROCEDURE SORT used (Total process time):  
real time 0.06 seconds  
cpu time 0.03 seconds

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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.  
NOTE: The PROCEDURE PRINT printed page 4.  
NOTE: PROCEDURE PRINT used (Total process time):  
real time 0.01 seconds  
cpu time 0.00 seconds

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

NOTE: There were 7360 observations read from the data set WORK.ASCLNKS.  
NOTE: The data set WORK.ASCLNKS has 7338 observations and 2 variables.

NOTE: DATA statement used (Total process time):  
 real time 0.01 seconds  
 cpu time 0.01 seconds

```
73
74   proc print data=asclnks (obs=50);
75       title3 "sample print of unique evtidxs from work.asclnks";
76       format eventype eventype.;
77   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 0.01 seconds  
 cpu time 0.00 seconds

```
78
79   *-----
80   * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
81   *-----;
82   DATA MVIS;
83       SET IN.H94G (KEEP=EVNTIDX PERWT05F SEETLKPV);
84       IF PERWT05F > 0 & SEETLKPV NE 2;
85   RUN;
```

NOTE: There were 152748 observations read from the data set IN.H94G.

NOTE: The data set WORK.MVIS has 148765 observations and 3 variables.

NOTE: DATA statement used (Total process time):  
 real time 6.21 seconds  
 cpu time 0.49 seconds

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

NOTE: There were 148765 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.MVIS has 148765 observations and 3 variables.

NOTE: PROCEDURE SORT used (Total process time):  
 real time 0.39 seconds  
 cpu time 0.37 seconds

```
88
89   *-----
90   * Identify MVIS events which were for asthma.
91   *-----;
92   DATA ASMVIS;
93       MERGE ASCLNKS (IN=INASCLNK)
94           MVIS      (IN=INMVIS KEEP=EVNTIDX);
95       BY EVNTIDX;
96       IF INASCLNK & INMVIS;
97   RUN;
```

NOTE: There were 7338 observations read from the data set WORK.ASCLNKS.

NOTE: There were 148765 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.ASMVIS has 2174 observations and 2 variables.

NOTE: DATA statement used (Total process time):

real time	0.25 seconds
cpu time	0.23 seconds

```

98
99     proc print data=asmvis (obs=50);
100         format eventype eventype.;
101         title3 "sample print of work.asmvis";
102         title4 "unique evtidxs from work.asclinks that are non-telephone MVIS (HC-094G) events";
103     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	0.03 seconds

```

104
105     *-----
106     * Get PMED IDs linked to the MVIS events which were for asthma.
107     *-----;
108     PROC SORT DATA=IN.H94IF2 OUT=RXLK; BY EVNTIDX; RUN;

```

NOTE: There were 59331 observations read from the data set IN.H94IF2.

NOTE: The data set WORK.RXLK has 59331 observations and 6 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.31 seconds
cpu time	0.24 seconds

```

109
110     proc print data=rxlk (obs=140);
111         by evtidx;
112         id evtidx;
113         var linkidx eventype;
114         format eventype eventype.;
115         title3 "sample print of work.rxlk - sorted by evtidx";
116         title4 "Rx+event link file records (HC-94IF2)";
117     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	0.03 seconds
cpu time	0.01 seconds

```

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

```

NOTE: There were 59331 observations read from the data set WORK.RXLK.  
NOTE: There were 2174 observations read from the data set WORK.ASMVIS.  
NOTE: The data set WORK.PMEDIDS has 1940 observations and 3 variables.  
NOTE: DATA statement used (Total process time):  
real time 0.10 seconds  
cpu time 0.11 seconds

```
125
126 proc print data=pmedids (obs=50);
127     by evtidx;
128     id evtidx;
129     format eventype eventype.;
130     title3 "sample print of work.pmedids - sorted by evtidx";
131     title4 "work.rxlk records for evtidxs in work.asmvis";
132 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 0.03 seconds  
cpu time 0.01 seconds

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

NOTE: There were 1940 observations read from the data set WORK.PMEDIDS.  
NOTE: The data set WORK.PMEDIDS has 1940 observations and 3 variables.  
NOTE: PROCEDURE SORT used (Total process time):  
real time 0.01 seconds  
cpu time 0.01 seconds

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

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

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

NOTE: There were 1940 observations read from the data set WORK.PMEDIDS.  
NOTE: The data set WORK.PMEDIDS has 1853 observations and 1 variables.

NOTE: DATA statement used (Total process time):  
 real time 0.01 seconds  
 cpu time 0.01 seconds

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

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.  
 NOTE: The PROCEDURE PRINT printed page 15.  
 NOTE: PROCEDURE PRINT used (Total process time):  
 real time 0.00 seconds  
 cpu time 0.00 seconds

```
150
151   *-----;
152   * Get PMED records linked to MVIS events which were for asthma.
153   *-----;
154   PROC SORT DATA=IN.H94A OUT=PMED; BY LINKIDX; RUN;
```

NOTE: There were 317587 observations read from the data set IN.H94A.  
 NOTE: The data set WORK.PMED has 317587 observations and 13 variables.  
 NOTE: PROCEDURE SORT used (Total process time):  
 real time 20.71 seconds  
 cpu time 2.65 seconds

```
155
156   DATA MVPMEDS;
157       MERGE PMED (KEEP=LINKIDX RXRECIDX RXXP05X PERWT05F RXNAME)
158           PMEDIDS (IN=A);
159       BY LINKIDX;
160       IF A;
161   RUN;
```

NOTE: There were 317587 observations read from the data set WORK.PMED.  
 NOTE: There were 1853 observations read from the data set WORK.PMEDIDS.  
 NOTE: The data set WORK.MVPMEDS has 4900 observations and 5 variables.  
 NOTE: DATA statement used (Total process time):  
 real time 2.53 seconds  
 cpu time 0.54 seconds

```
162
163   proc print data=mvpmeds (obs=200);
164       var rxrecidx rxname RXXP05X PERWT05F;
165       by linkidx;
166       id linkidx;
167       title3 "sample print of work.mvpmeds";
168       title4 "PMED (HC-094A) records for unique linkidxs in work.pmedids";
169   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 0.01 seconds  
cpu time 0.00 seconds

```
170  
171 PROC MEANS DATA=MVPMEDS N SUM;  
172 VAR RXXP05X;  
173 TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";  
174 RUN;
```

NOTE: There were 4900 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE MEANS printed page 22.

NOTE: PROCEDURE MEANS used (Total process time):  
real time 0.29 seconds  
cpu time 0.01 seconds

```
175  
176 PROC MEANS DATA=MVPMEDS N SUM;  
177 VAR RXXP05X;  
178 WEIGHT PERWT05F;  
179 TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";  
180 TITLE5 "Weighted";  
181 RUN;
```

NOTE: There were 4900 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE MEANS printed page 23.

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

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

NOTE: The SAS System used:  
real time 50.78 seconds  
cpu time 7.79 seconds

Sample SAS Job for Example A  
 sample print of work.asconds - sorted by condidx  
 COND (H96) records where cccodex=128

Obs	CONDIDX	CCCDEX
1	300180180093	128
2	300180250064	128
3	300490270010	128
4	300600350034	128
5	300610290019	128
6	300680130051	128
7	300830210012	128
8	300910450025	128
9	301170420016	128
10	301320230021	128
11	302050190018	128
12	302560570015	128
13	302740680016	128
14	302850140023	128
15	302920640046	128
16	302930150015	128
17	302950160019	128
18	302950230018	128
19	302980530024	128
20	303350230045	128
21	303490360020	128
22	303510370015	128
23	303600490028	128
24	303670100066	128
25	303730200010	128
26	303760240088	128
27	303780330060	128
28	303780400075	128
29	304220290013	128
30	304220360012	128
31	304250390016	128
32	304280150074	128
33	304570200013	128
34	304710110124	128
35	304740470017	128
36	304780320015	128
37	304840230070	128
38	305260250057	128
39	305260320084	128
40	305350320069	128
41	305460360018	128
42	305490330016	128
43	305490400015	128
44	305540110050	128
45	305890140018	128
46	306130130099	128
47	306160160019	128
48	306160160081	128
49	306460410012	128
50	306630300010	128



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

CONDIDX	EVNTIDX	EVENTYPE
300180180093	300180180134	8 PMED
	300180180261	8 PMED
300180250064	300180250141	8 PMED
300490270010	300490270015	8 PMED
300600350034	300600350155	8 PMED
	300600350162	8 PMED
300610290019	300610290021	1 MVIS
	300610290045	8 PMED
	300610290052	8 PMED
	300610290076	1 MVIS
	300610290083	1 MVIS
	300610290090	1 MVIS
	300610290103	1 MVIS
	300610290110	1 MVIS
	300610290127	1 MVIS
	300610290134	1 MVIS
	300610290141	1 MVIS
	300610290158	1 MVIS
	300610290165	8 PMED
	300610290172	8 PMED
	300610290189	8 PMED
	300610290196	8 PMED
	300610290209	8 PMED
	300610290216	8 PMED
	300610290285	1 MVIS
	300610290329	8 PMED
	300610290336	8 PMED
	300610290343	8 PMED
	300610290350	8 PMED
300610290367	8 PMED	
300610290374	8 PMED	
300610290398	8 PMED	
300610290401	8 PMED	
300830210012	300830210042	4 STAZ
	300830210066	1 MVIS
	300830210097	8 PMED
	300830210100	8 PMED
	300830210155	8 PMED
	300830210162	8 PMED
	300830210179	8 PMED
300910450025	300910450020	1 MVIS
	300910450044	8 PMED
	300910450051	8 PMED

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

CONDIDX	EVNTIDX	EVENTYPE
300910450025	300910450099	8 PMED
	300910450102	8 PMED
301170420016	301170420017	8 PMED
	301170420024	8 PMED
301320230021	301320230030	8 PMED
	301320230047	8 PMED
	301320230232	8 PMED
	301320230249	8 PMED
	301320230270	8 PMED
	301320230287	8 PMED
302560570015	302560570036	8 PMED
	302560570043	1 MVIS
	302560570050	8 PMED
	302560570067	8 PMED
	302560570074	8 PMED
	302560570081	8 PMED
	302560570101	8 PMED
302920640046	302920640065	1 MVIS
	302920640096	8 PMED
	302920640109	8 PMED
	302920640116	8 PMED
302930150015	302930150027	8 PMED
	302930150034	8 PMED
	302930150058	8 PMED
	302930150065	8 PMED
	302930150130	8 PMED
	302930150147	8 PMED
302950230018	302950230019	8 PMED
	302950230057	8 PMED
302980530024	302980530010	1 MVIS
	302980530034	8 PMED
	302980530041	8 PMED

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

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	300180180093	300180180134	8 PMED
2	300180180093	300180180261	8 PMED
3	300180250064	300180250141	8 PMED
4	300490270010	300490270015	8 PMED
5	300600350034	300600350155	8 PMED
6	300600350034	300600350162	8 PMED
7	300610290019	300610290021	1 MVIS
8	300610290019	300610290045	8 PMED
9	300610290019	300610290052	8 PMED
10	300610290019	300610290076	1 MVIS
11	300610290019	300610290083	1 MVIS
12	300610290019	300610290090	1 MVIS
13	300610290019	300610290103	1 MVIS
14	300610290019	300610290110	1 MVIS
15	300610290019	300610290127	1 MVIS
16	300610290019	300610290134	1 MVIS
17	300610290019	300610290141	1 MVIS
18	300610290019	300610290158	1 MVIS
19	300610290019	300610290165	8 PMED
20	300610290019	300610290172	8 PMED
21	300610290019	300610290189	8 PMED
22	300610290019	300610290196	8 PMED
23	300610290019	300610290209	8 PMED
24	300610290019	300610290216	8 PMED
25	300610290019	300610290285	1 MVIS
26	300610290019	300610290329	8 PMED
27	300610290019	300610290336	8 PMED
28	300610290019	300610290343	8 PMED
29	300610290019	300610290350	8 PMED
30	300610290019	300610290367	8 PMED
31	300610290019	300610290374	8 PMED
32	300610290019	300610290398	8 PMED
33	300610290019	300610290401	8 PMED
34	300830210012	300830210042	4 STAZ
35	300830210012	300830210066	1 MVIS
36	300830210012	300830210097	8 PMED
37	300830210012	300830210100	8 PMED
38	300830210012	300830210155	8 PMED
39	300830210012	300830210162	8 PMED
40	300830210012	300830210179	8 PMED
41	300910450025	300910450020	1 MVIS
42	300910450025	300910450044	8 PMED
43	300910450025	300910450051	8 PMED
44	300910450025	300910450099	8 PMED
45	300910450025	300910450102	8 PMED
46	301170420016	301170420017	8 PMED
47	301170420016	301170420024	8 PMED
48	301320230021	301320230030	8 PMED
49	301320230021	301320230047	8 PMED
50	301320230021	301320230232	8 PMED

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

Obs	EVNTIDX	EVENTYPE
1	300180180134	8 PMED
2	300180180261	8 PMED
3	300180250141	8 PMED
4	300490270015	8 PMED
5	300600350155	8 PMED
6	300600350162	8 PMED
7	300610290021	1 MVIS
8	300610290045	8 PMED
9	300610290052	8 PMED
10	300610290076	1 MVIS
11	300610290083	1 MVIS
12	300610290090	1 MVIS
13	300610290103	1 MVIS
14	300610290110	1 MVIS
15	300610290127	1 MVIS
16	300610290134	1 MVIS
17	300610290141	1 MVIS
18	300610290158	1 MVIS
19	300610290165	8 PMED
20	300610290172	8 PMED
21	300610290189	8 PMED
22	300610290196	8 PMED
23	300610290209	8 PMED
24	300610290216	8 PMED
25	300610290285	1 MVIS
26	300610290329	8 PMED
27	300610290336	8 PMED
28	300610290343	8 PMED
29	300610290350	8 PMED
30	300610290367	8 PMED
31	300610290374	8 PMED
32	300610290398	8 PMED
33	300610290401	8 PMED
34	300830210042	4 STAZ
35	300830210066	1 MVIS
36	300830210097	8 PMED
37	300830210100	8 PMED
38	300830210155	8 PMED
39	300830210162	8 PMED
40	300830210179	8 PMED
41	300910450020	1 MVIS
42	300910450044	8 PMED
43	300910450051	8 PMED
44	300910450099	8 PMED
45	300910450102	8 PMED
46	301170420017	8 PMED
47	301170420024	8 PMED
48	301320230030	8 PMED
49	301320230047	8 PMED
50	301320230232	8 PMED

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

unique evtidxs from work.asclinks that are non-telephone MVIS (HC-094G) events

Obs	EVNTIDX	EVENTYPE
1	300610290021	1 MVIS
2	300610290076	1 MVIS
3	300610290083	1 MVIS
4	300610290090	1 MVIS
5	300610290103	1 MVIS
6	300610290110	1 MVIS
7	300610290127	1 MVIS
8	300610290134	1 MVIS
9	300610290141	1 MVIS
10	300610290158	1 MVIS
11	300610290285	1 MVIS
12	300830210066	1 MVIS
13	300910450020	1 MVIS
14	302560570043	1 MVIS
15	302920640065	1 MVIS
16	302980530010	1 MVIS
17	302980530065	1 MVIS
18	303510370044	1 MVIS
19	303510370195	1 MVIS
20	303510370277	1 MVIS
21	303600490060	1 MVIS
22	303670100312	1 MVIS
23	303670100329	1 MVIS
24	303730200014	1 MVIS
25	303730200021	1 MVIS
26	303730200038	1 MVIS
27	303730200045	1 MVIS
28	303730200052	1 MVIS
29	303730200069	1 MVIS
30	303730200165	1 MVIS
31	303730200172	1 MVIS
32	303730200189	1 MVIS
33	303760240258	1 MVIS
34	303760240265	1 MVIS
35	303760240272	1 MVIS
36	303760240289	1 MVIS
37	303760240296	1 MVIS
38	303760240316	1 MVIS
39	303760240330	1 MVIS
40	303760240347	1 MVIS
41	303760240361	1 MVIS
42	303760240378	1 MVIS
43	303760240498	1 MVIS
44	303760240532	1 MVIS
45	303760240549	1 MVIS
46	303760240556	1 MVIS
47	303760240570	1 MVIS
48	303760240587	1 MVIS
49	303760240594	1 MVIS
50	303760240607	1 MVIS

Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evntidx  
 Rx+event link file records (HC-94IF2)

EVNTIDX	LINKIDX	EVENTYPE
300040100030	300040100061	1 MVIS
300040270023	300040270030	1 MVIS
300050150011	300050150059	1 MVIS
	300050150066	1 MVIS
	300050150073	1 MVIS
	300050150080	1 MVIS
	300050150097	1 MVIS
300050150028	300050150100	1 MVIS
300050150117	300050150193	1 MVIS
300050150302	300050150333	1 MVIS
	300050150340	1 MVIS
	300050150357	1 MVIS
	300050150364	1 MVIS
	300050150371	1 MVIS
	300050150388	1 MVIS
	300050150395	1 MVIS
300060120012	300060120101	5 DVIS
300060120067	300060120118	1 MVIS
300060120081	300060120125	1 MVIS
300060290012	300060290067	1 MVIS
300060290081	300060290132	1 MVIS
300060290163	300060290170	2 OPAT
	300060290187	2 OPAT
300060360029	300060360050	1 MVIS
300080830011	300080830059	1 MVIS
	300080830066	1 MVIS
	300080830073	1 MVIS
300090130018	300090130070	1 MVIS
300090130032	300090130087	1 MVIS
	300090130094	1 MVIS
300090130107	300090130138	1 MVIS
300090130114	300090130145	1 MVIS

Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evntidx  
 Rx+event link file records (HC-94IF2)

EVNTIDX	LINKIDX	EVENTYPE
300100100058	300100100116	1 MVIS
300100100205	300100100236	1 MVIS
300110100233	300110100377	1 MVIS
300110100308	300110100384	1 MVIS
300110100322	300110100391	3 EROM
300110100428	300110100579	1 MVIS
	300110100586	1 MVIS
	300110100593	1 MVIS
300110100517	300110100606	5 DVIS
300130120016	300130120023	1 MVIS
300140290018	300140290025	1 MVIS
300150170043	300150170156	1 MVIS
	300150170163	1 MVIS
	300150170170	1 MVIS
	300150170187	1 MVIS
	300150170194	1 MVIS
	300150170207	1 MVIS
	300150170214	1 MVIS
	300150170221	1 MVIS
	300150170238	1 MVIS
	300150170245	1 MVIS
	300150170252	1 MVIS
	300150170269	1 MVIS
	300150170276	1 MVIS
300150170132	300150170163	4 STAZ
	300150170214	4 STAZ
	300150170276	4 STAZ
	300150170283	4 STAZ
300150170149	300150170170	1 MVIS
	300150170207	1 MVIS
	300150170276	1 MVIS
300150170341	300150170389	1 MVIS
300160270011	300160270066	1 MVIS
300160270124	300160270131	5 DVIS

Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evntidx  
 Rx+event link file records (HC-94IF2)

EVNTIDX	LINKIDX	EVENTYPE
300170230011	300170230066	3 EROM
300170230155	300170230186	1 MVIS
300180180014	300180180052	1 MVIS
	300180180069	1 MVIS
	300180180076	1 MVIS
	300180180083	1 MVIS
	300180180090	1 MVIS
	300180180103	1 MVIS
	300180180110	1 MVIS
	300180180127	1 MVIS
	300180180134	1 MVIS
300190110054	300190110092	1 MVIS
300200310018	300200310049	1 MVIS
300200310063	300200310070	1 MVIS
300200310087	300200310107	1 MVIS
300210180078	300210180112	1 MVIS
	300210180129	1 MVIS
300210180092	300210180136	1 MVIS
300220190210	300220190309	1 MVIS
	300220190316	1 MVIS
300220190227	300220190323	1 MVIS
	300220190330	1 MVIS
300220190234	300220190347	1 MVIS
	300220190354	1 MVIS
300230230025	300230230032	1 MVIS
300230410014	300230410021	1 MVIS
300270370013	300270370020	1 MVIS
300280150010	300280150109	1 MVIS
	300280150116	1 MVIS
300280150034	300280150123	1 MVIS
	300280150130	1 MVIS
	300280150147	1 MVIS



Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evtidx  
 Rx+event link file records (HC-94IF2)

EVNTIDX	LINKIDX	EVENTYPE
300280150041	300280150154	5 DVIS
300280150205	300280150274	1 MVIS
	300280150281	1 MVIS
	300280150298	1 MVIS
300280150229	300280150301	1 MVIS
300280220010	300280220065	1 MVIS
	300280220072	1 MVIS
300280220027	300280220089	1 MVIS
300280220123	300280220161	1 MVIS
	300280220178	1 MVIS
300280390034	300280390212	1 MVIS
	300280390229	1 MVIS
	300280390236	1 MVIS
300280390250	300280390332	1 MVIS
300280460027	300280460065	5 DVIS
300280460034	300280460072	1 MVIS
300280460058	300280460072	1 MVIS
300280460096	300280460089	5 DVIS
300300190017	300300190024	1 MVIS
300310120055	300310120062	1 MVIS
300310120106	300310120151	1 MVIS
300320170024	300320170106	1 MVIS
	300320170113	1 MVIS
	300320170120	1 MVIS
	300320170137	1 MVIS
	300320170144	1 MVIS
	300320170151	1 MVIS
300320170031	300320170168	1 MVIS
300320170199	300320170288	1 MVIS
300320170226	300320170288	1 MVIS
	300320170295	1 MVIS

Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evntidx  
 Rx+event link file records (HC-94IF2)

EVNTIDX	LINKIDX	EVENTYPE
300320170226	300320170308	1 MVIS
	300320170315	1 MVIS
	300320170322	1 MVIS
	300320170339	1 MVIS
	300320170346	1 MVIS
300320170264	300320170315	3 EROM
300320170360	300320170404	1 MVIS
300320240031	300320240048	1 MVIS
300320310017	300320310048	1 MVIS
300320310062	300320310079	1 MVIS
300340340025	300340340032	1 MVIS

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

EVNTIDX	LINKIDX	EVENTYPE
300610290021	300610290038	1 MVIS
300610290076	300610290165	1 MVIS
300610290090	300610290172	1 MVIS
300610290285	300610290329	1 MVIS
300910450020	300910450037	1 MVIS
	300910450044	1 MVIS
	300910450051	1 MVIS
	300910450068	1 MVIS
302560570043	302560570050	1 MVIS
	302560570067	1 MVIS
	302560570074	1 MVIS
	302560570081	1 MVIS
302920640065	302920640096	1 MVIS
	302920640109	1 MVIS
	302920640116	1 MVIS
302980530010	302980530034	1 MVIS
	302980530041	1 MVIS
	302980530058	1 MVIS
303510370195	303510370208	1 MVIS
303510370277	303510370342	1 MVIS
303600490060	303600490173	1 MVIS
303730200014	303730200196	1 MVIS
303730200165	303730200254	1 MVIS
	303730200261	1 MVIS
	303730200278	1 MVIS
303780330083	303780330158	1 MVIS
	303780330165	1 MVIS
303780330103	303780330172	1 MVIS
303780330216	303780330254	1 MVIS
	303780330261	1 MVIS
304250390016	304250390047	1 MVIS
	304250390054	1 MVIS

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

EVNTIDX	LINKIDX	EVENTYPE
304250390023	304250390047	1 MVIS
	304250390054	1 MVIS
304250390105	304250390136	1 MVIS
305260250246	305260250304	1 MVIS
	305260250311	1 MVIS
305460360163	305460360252	1 MVIS
	305460360269	1 MVIS
	305460360276	1 MVIS
305540110012	305540110050	1 MVIS
	305540110067	1 MVIS
	305540110074	1 MVIS
	305540110081	1 MVIS
	305540110098	1 MVIS
305540110101	1 MVIS	
305540110036	305540110118	1 MVIS
305540110170	305540110252	1 MVIS
305540110409	305540110492	1 MVIS
306160160018	306160160049	1 MVIS

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

Obs	EVNTIDX	LINKIDX	EVENTYPE
1	300610290021	300610290038	1 MVIS
2	300610290076	300610290165	1 MVIS
3	300610290090	300610290172	1 MVIS
4	300610290285	300610290329	1 MVIS
5	300910450020	300910450037	1 MVIS
6	300910450020	300910450044	1 MVIS
7	300910450020	300910450051	1 MVIS
8	300910450020	300910450068	1 MVIS
9	302560570043	302560570050	1 MVIS
10	302560570043	302560570067	1 MVIS
11	302560570043	302560570074	1 MVIS
12	302560570043	302560570081	1 MVIS
13	302920640065	302920640096	1 MVIS
14	302920640065	302920640109	1 MVIS
15	302920640065	302920640116	1 MVIS
16	302980530010	302980530034	1 MVIS
17	302980530010	302980530041	1 MVIS
18	302980530010	302980530058	1 MVIS
19	303510370195	303510370208	1 MVIS
20	303510370277	303510370342	1 MVIS
21	303600490060	303600490173	1 MVIS
22	303730200014	303730200196	1 MVIS
23	303730200165	303730200254	1 MVIS
24	303730200165	303730200261	1 MVIS
25	303730200165	303730200278	1 MVIS
26	303780330083	303780330158	1 MVIS
27	303780330083	303780330165	1 MVIS
28	303780330103	303780330172	1 MVIS
29	303780330216	303780330254	1 MVIS
30	303780330216	303780330261	1 MVIS
31	304250390016	304250390047	1 MVIS
32	304250390023	304250390047	1 MVIS
33	304250390016	304250390054	1 MVIS
34	304250390023	304250390054	1 MVIS
35	304250390105	304250390136	1 MVIS
36	305260250246	305260250304	1 MVIS
37	305260250246	305260250311	1 MVIS
38	305460360163	305460360252	1 MVIS
39	305460360163	305460360269	1 MVIS
40	305460360163	305460360276	1 MVIS
41	305540110012	305540110050	1 MVIS
42	305540110012	305540110067	1 MVIS
43	305540110012	305540110074	1 MVIS
44	305540110012	305540110081	1 MVIS
45	305540110012	305540110098	1 MVIS
46	305540110012	305540110101	1 MVIS
47	305540110036	305540110118	1 MVIS
48	305540110170	305540110252	1 MVIS
49	305540110409	305540110492	1 MVIS
50	306160160018	306160160049	1 MVIS

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

Obs	LINKIDX
1	300610290038
2	300610290165
3	300610290172
4	300610290329
5	300910450037
6	300910450044
7	300910450051
8	300910450068
9	302560570050
10	302560570067
11	302560570074
12	302560570081
13	302920640096
14	302920640109
15	302920640116
16	302980530034
17	302980530041
18	302980530058
19	303510370208
20	303510370342
21	303600490173
22	303730200196
23	303730200254
24	303730200261
25	303730200278
26	303780330158
27	303780330165
28	303780330172
29	303780330254
30	303780330261
31	304250390047
32	304250390054
33	304250390136
34	305260250304
35	305260250311
36	305460360252
37	305460360269
38	305460360276
39	305540110050
40	305540110067
41	305540110074
42	305540110081
43	305540110098
44	305540110101
45	305540110118
46	305540110252
47	305540110492
48	306160160049
49	306160160056
50	306160160063

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

PMED (HC-094A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
300610290038	300610290038001	AZITHROMYCIN	39.57	14494.603115
300610290165	300610290165001	PREDNISONE	5.15	14494.603115
	300610290165002	PREDNISONE	5.15	14494.603115
	300610290165003	PREDNISONE	5.15	14494.603115
	300610290165004	PREDNISONE	5.15	14494.603115
300610290172	300610290172001	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290172002	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290172003	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290172004	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290172005	ADVAIR DISKUS 500/50	211.06	14494.603115
300610290329	300610290329001	ADVAIR DISKUS 250/50	153.37	14494.603115
	300610290329002	ADVAIR DISKUS 250/50	153.37	14494.603115
300910450037	300910450037001	ADDERALL XR	97.53	9170.443811
	300910450037002	ADDERALL XR	90.50	9170.443811
	300910450037003	ADDERALL XR	90.50	9170.443811
	300910450037004	ADDERALL XR	90.50	9170.443811
	300910450037005	ADDERALL XR	90.50	9170.443811
300910450044	300910450044001	ADVAIR DISKUS 250/50	430.69	9170.443811
300910450051	300910450051001	ALBUTEROL INHALER	29.79	9170.443811
	300910450051002	ALBUTEROL INHALER	29.79	9170.443811
300910450068	300910450068001	CLARINEX	40.00	9170.443811
	300910450068002	CLARINEX	40.00	9170.443811
302560570050	302560570050001	CLARITIN	10.20	4791.575621
302560570067	302560570067001	ACCUNEB (PF)	63.99	4791.575621
302560570074	302560570074001	RHINOCORT AQUA (120 METERED SPRAYS)	74.29	4791.575621
302560570081	302560570081001	PREDNISOLONE (CHERRY)	20.35	4791.575621
302920640096	302920640096001	FLOVENT HFA	94.06	1608.784718
302920640109	302920640109001	FLOVENT HFA	70.77	1608.784718
302920640116	302920640116001	ALBUTEROL	7.25	1608.784718
302980530034	302980530034001	FLOVENT HFA	78.68	12707.553309
302980530041	302980530041001	ALBUTEROL	21.41	12707.553309
302980530058	302980530058001	FLONASE	69.49	12707.553309

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

PMED (HC-094A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
303510370208	303510370208001	DEXAMETHASONE	13.95	25384.104215
	303510370208002	DEXAMETHASONE	13.95	25384.104215
303510370342	303510370342001	ALBUTEROL	7.98	25384.104215
303600490173	303600490173001	XOPENEX (PF)	129.33	12427.409638
303730200196	303730200196001	HCTZ/LISINOPRIL	36.02	10062.157830
303730200254	303730200254001	AVELOX	96.30	10062.157830
303730200261	303730200261001	PREDNISONE	3.14	10062.157830
303730200278	303730200278001	ALBUTEROL	29.66	10062.157830
303780330158	303780330158001	ALBUTEROL SULFATE (VIAL)	21.75	18474.466386
	303780330158002	ALBUTEROL SULFATE (VIAL)	21.75	18474.466386
303780330165	303780330165001	FLOVENT HFA	72.91	18474.466386
	303780330165002	FLOVENT HFA	72.91	18474.466386
303780330172	303780330172001	SINGULAIR	90.69	18474.466386
303780330254	303780330254001	PREDNISOLONE SODIUM PHOSPHATE (DYE-FREE, GRAPE)	12.47	18474.466386
	303780330254002	PREDNISOLONE SODIUM PHOSPHATE (DYE-FREE, GRAPE)	12.47	18474.466386
303780330261	303780330261001	XOPENEX (PF)	118.80	18474.466386
304250390047	304250390047001	ALBUTEROL	29.79	15760.782426
	304250390047002	ALBUTEROL	29.79	15760.782426
304250390054	304250390054001	SINGULAIR	81.42	15760.782426
304250390136	304250390136001	ALBUTEROL	29.79	15760.782426
	304250390136002	ALBUTEROL	29.79	15760.782426
	304250390136003	ALBUTEROL	29.79	15760.782426
	304250390136004	ALBUTEROL	29.79	15760.782426
	304250390136005	ALBUTEROL	29.79	15760.782426
	304250390136006	ALBUTEROL	29.79	15760.782426
305260250304	305260250304001	ALPRAZOLAM	14.37	3217.902738
	305260250304002	ALPRAZOLAM	14.37	3217.902738
	305260250304003	ALPRAZOLAM	14.37	3217.902738
305260250311	305260250311001	CYCLOBENZAPRINE	26.95	3217.902738
	305260250311002	CYCLOBENZAPRINE	26.95	3217.902738
	305260250311003	CYCLOBENZAPRINE	26.95	3217.902738
305460360252	305460360252001	ADVAIR DISKUS 250/50	149.07	904.304728



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

PMED (HC-094A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
305460360269	305460360269001	LODRANE 24 (DYE-FREE)	30.20	904.304728
305460360276	305460360276001	ALBUTEROL	7.08	904.304728
	305460360276002	ALBUTEROL	9.52	904.304728
	305460360276003	ALBUTEROL	9.52	904.304728
	305460360276004	ALBUTEROL	9.52	904.304728
	305460360276005	ALBUTEROL	9.52	904.304728
	305460360276006	ALBUTEROL	7.08	904.304728
	305460360276007	ALBUTEROL	7.08	904.304728
	305460360276008	ALBUTEROL	9.52	904.304728
	305460360276009	ALBUTEROL	7.08	904.304728
	305460360276010	ALBUTEROL	7.08	904.304728
305540110050	305540110050001	APAP/OXYCODONE	221.99	6027.017180
	305540110050002	APAP/OXYCODONE	221.99	6027.017180
	305540110050003	APAP/OXYCODONE	221.99	6027.017180
305540110067	305540110067001	SINGULAIR (UNIT OF USE)	90.49	6027.017180
	305540110067002	SINGULAIR (UNIT OF USE)	90.49	6027.017180
	305540110067003	SINGULAIR (UNIT OF USE)	90.49	6027.017180
305540110074	305540110074001	CARISOPRODOL	48.82	6027.017180
	305540110074002	CARISOPRODOL	48.82	6027.017180
	305540110074003	CARISOPRODOL	48.82	6027.017180
305540110081	305540110081001	PREVACID	134.86	6027.017180
	305540110081002	PREVACID	134.86	6027.017180
	305540110081003	PREVACID	134.86	6027.017180
305540110098	305540110098001	DIOVAN HCT (CAPLET)	59.18	6027.017180
	305540110098002	DIOVAN HCT (CAPLET)	59.18	6027.017180
	305540110098003	DIOVAN HCT (CAPLET)	59.18	6027.017180
305540110101	305540110101001	VERAPAMIL HCL	16.95	6027.017180
	305540110101002	VERAPAMIL HCL	16.95	6027.017180
	305540110101003	VERAPAMIL HCL	16.95	6027.017180
305540110118	305540110118001	AVANDIA (FILM-COATED, TILTAB)	120.09	6027.017180
305540110252	305540110252001	AVANDAMET (FILM COATED)	100.15	6027.017180
	305540110252002	AVANDAMET (FILM COATED)	100.15	6027.017180
305540110492	305540110492001	APAP/OXYCODONE	214.16	6027.017180
	305540110492002	APAP/OXYCODONE	214.16	6027.017180
	305540110492003	APAP/OXYCODONE	214.16	6027.017180
	305540110492004	APAP/OXYCODONE	214.16	6027.017180
306160160049	306160160049001	PREDNISONE	3.82	7976.414018

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

PMED (HC-094A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
306160160056	306160160056001	ALBUTEROL	21.41	7976.414018
306160160063	306160160063001	FLOVENT	129.24	7976.414018
306160160070	306160160070001	MUCINEX	24.26	7976.414018
306160160087	306160160087001	PREVACID	153.17	7976.414018
306160160094	306160160094001	DOXEPIN	18.46	7976.414018
306460410089	306460410089001	KIDKARE COUGH/COLD (AF,CHERRY)	12.13	922.397151
306670130064	306670130064001	LOTREL	212.78	9543.282177
	306670130064002	LOTREL	212.78	9543.282177
	306670130064003	LOTREL	212.78	9543.282177
	306670130064004	LOTREL	212.78	9543.282177
	306670130064005	LOTREL	212.78	9543.282177
	306670130064006	LOTREL	212.78	9543.282177
306670130071	306670130071001	ALBUTEROL/IPRATROPIUM	7.00	9543.282177
	306670130071002	ALBUTEROL/IPRATROPIUM	7.00	9543.282177
	306670130071003	ALBUTEROL/IPRATROPIUM	7.00	9543.282177
	306670130071004	ALBUTEROL/IPRATROPIUM	7.00	9543.282177
	306670130071005	ALBUTEROL/IPRATROPIUM	7.00	9543.282177
	306670130071006	ALBUTEROL/IPRATROPIUM	7.00	9543.282177
306670130088	306670130088001	ADVAIR DISKUS 250/50	176.30	9543.282177
	306670130088002	ADVAIR DISKUS 250/50	176.30	9543.282177
	306670130088003	ADVAIR DISKUS 250/50	176.30	9543.282177
	306670130088004	ADVAIR DISKUS 250/50	176.30	9543.282177
307540110065	307540110065001	PREVACID	123.87	3932.197198
	307540110065002	PREVACID	122.37	3932.197198
	307540110065003	PREVACID	122.37	3932.197198
307540110072	307540110072001	LOTREL	77.69	3932.197198
	307540110072002	LOTREL	77.69	3932.197198
307540110089	307540110089001	MEPERIDINE/PROMETHAZINE	27.06	3932.197198
307540110096	307540110096001	LIPITOR	71.68	3932.197198
	307540110096002	LIPITOR	71.68	3932.197198
	307540110096003	LIPITOR	71.68	3932.197198
	307540110096004	LIPITOR	71.68	3932.197198
	307540110096005	LIPITOR	71.68	3932.197198
	307540110096006	LIPITOR	71.68	3932.197198
	307540110096007	LIPITOR	71.68	3932.197198
	307540110109	307540110109001	PREMARIN	35.54

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

PMED (HC-094A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
307540110109	307540110109002	PREMARIN	35.54	3932.197198
	307540110109003	PREMARIN	35.54	3932.197198
	307540110109004	PREMARIN	35.54	3932.197198
307540110116	307540110116001	FUROSEMIDE	8.99	3932.197198
	307540110116002	FUROSEMIDE	8.99	3932.197198
	307540110116003	FUROSEMIDE	8.99	3932.197198
307540110123	307540110123001	HYDROCHLOROTHIAZIDE	10.34	3932.197198
307540110130	307540110130001	PULMICORT	134.54	3932.197198
	307540110130002	PULMICORT	134.54	3932.197198
	307540110130003	PULMICORT	134.54	3932.197198
307540110147	307540110147001	ADVAIR	139.26	3932.197198
	307540110147002	ADVAIR	139.26	3932.197198
	307540110147003	ADVAIR	139.26	3932.197198
307540110154	307540110154001	NASONEX	73.19	3932.197198
	307540110154002	NASONEX	73.19	3932.197198
	307540110154003	NASONEX	73.19	3932.197198
	307540110154004	NASONEX	73.19	3932.197198
	307540110154005	NASONEX	73.19	3932.197198
	307540110154006	NASONEX	73.19	3932.197198
307540110161	307540110161001	ALAVERT	20.53	3932.197198
	307540110161002	ALAVERT	20.53	3932.197198
307750280067	307750280067001	ZOLOFT	90.51	28216.459168
	307750280067002	ZOLOFT	90.51	28216.459168
	307750280067003	ZOLOFT	90.51	28216.459168
	307750280067004	ZOLOFT	82.69	28216.459168
	307750280067005	ZOLOFT	82.69	28216.459168
307750280074	307750280074001	NEXIUM (UNIT OF USE)	157.69	28216.459168
	307750280074002	NEXIUM (UNIT OF USE)	157.69	28216.459168
	307750280074003	NEXIUM (UNIT OF USE)	157.69	28216.459168
307750280081	307750280081001	ALBUTEROL	21.41	28216.459168
307750280098	307750280098001	PROTONIX	122.63	28216.459168
	307750280098002	PROTONIX	122.63	28216.459168
307850230082	307850230082001	ADVAIR	67.42	6052.476410
	307850230082002	ADVAIR	67.42	6052.476410
	307850230082003	ADVAIR	67.42	6052.476410
	307850230082004	ADVAIR	67.42	6052.476410
308090360211	308090360211001	ALBUTEROL INHALER	39.90	7233.748978

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

PMED (HC-094A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
308470230072	308470230072001	ALBUTEROL INHALER	39.90	6659.457209
	308470230072002	ALBUTEROL INHALER	39.90	6659.457209
308470230089	308470230089001	ALBUTEROL	29.66	6659.457209
308470230130	308470230130001	ALBUTEROL INHALER	21.35	6659.457209
308600120037	308600120037001	METHYLPREDNISOLONE (DOSE PACK)	10.00	5766.034119
308600120044	308600120044001	FLOVENT	84.22	5766.034119
308600120051	308600120051001	COMBIVENT	5.44	5766.034119
308600120551	308600120551001	FLOVENT HFA	87.75	5766.034119
	308600120551002	FLOVENT HFA	87.75	5766.034119
	308600120551003	FLOVENT HFA	87.75	5766.034119
308600120568	308600120568001	COMBIVENT	37.95	5766.034119
	308600120568002	COMBIVENT	37.95	5766.034119
	308600120568003	COMBIVENT	37.95	5766.034119
308880430035	308880430035001	ALBUTEROL	21.41	4703.534649
	308880430035002	ALBUTEROL	21.41	4703.534649
308880430080	308880430080001	ALBUTEROL	42.82	4703.534649
	308880430080002	ALBUTEROL	42.82	4703.534649
308880430097	308880430097001	SINGULAIR (UNIT OF USE)	103.13	4703.534649
	308880430097002	SINGULAIR (UNIT OF USE)	103.13	4703.534649
308890440078	308890440078001	CARBOFED DM (AF,SF,GRAPE)	7.29	10815.066372
308890440085	308890440085001	IBUPROFEN	4.98	10815.066372
308890440092	308890440092001	LOPERAMIDE HCL	7.47	10815.066372
308890440105	308890440105001	ALBUTEROL SULFATE (PF)	8.81	10815.066372
308890440112	308890440112001	PULMICORT RESPULES (5X6)	142.04	10815.066372
309040150317	309040150317001	COMBIVENT	79.90	10554.050996
309040150324	309040150324001	PULMICORT TURBUHALER	145.82	10554.050996

Sample SAS Job for Example A

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

The MEANS Procedure

Analysis Variable : RXXP05X SUM OF PAYMENTS RXSF05X-RXOU05X(IMPUTED)

N	Sum
4900	321991.88

Sample SAS Job for Example A

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

Weighted

The MEANS Procedure

Analysis Variable : RXXP05X SUM OF PAYMENTS RXSF05X-RXOU05X(IMPUTED)

N	Sum
4900	2616476136

1

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

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:  
real time 4.00 seconds  
cpu time 0.68 seconds

NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS\SAS 9.1\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1      OPTIONS LS=132 PS=59;
2
3      TITLE1 "HC-094I";
4      TITLE2 "Sample SAS Job for Example B";
5
6      LIBNAME IN "C:\data";
```

NOTE: Libref IN was successfully assigned as follows:  
Engine: V9  
Physical Name: C:\data

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

NOTE: Format EVENTYPE has been output.

```
21     RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):  
real time 0.14 seconds  
cpu time 0.00 seconds

```
22
23     *-----
24     * Get condition records coded as asthma.
25     *-----;
26     DATA ASCONDS;
```

2

```

27     SET IN.H96 (KEEP=CONDIDX CCCODEX);
28     IF CCCODEX="128";
29     RUN;

```

NOTE: There were 104855 observations read from the data set IN.H96.  
NOTE: The data set WORK.ASCONDS has 1869 observations and 2 variables.  
NOTE: DATA statement used (Total process time):

real time	1.31 seconds
cpu time	0.15 seconds

```

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

```

NOTE: There were 1869 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCONDS has 1869 observations and 2 variables.  
NOTE: PROCEDURE SORT used (Total process time):

real time	0.14 seconds
cpu time	0.01 seconds

```

35
36     proc print data=asconds (obs=50);
37         title3 "sample print of work.asconds - sorted by condidx";
38         title4 "COND (H96) records where cccodex=128";
39     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	0.34 seconds
cpu time	0.06 seconds

```

40
41     PROC SORT DATA=IN.H94IF1 OUT=CLNK; BY CONDIDX; RUN;

```

NOTE: There were 343960 observations read from the data set IN.H94IF1.  
NOTE: The data set WORK.CLNK has 343960 observations and 6 variables.  
NOTE: PROCEDURE SORT used (Total process time):

real time	5.39 seconds
cpu time	1.28 seconds

```

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

```

NOTE: There were 343960 observations read from the data set WORK.CLNK.  
NOTE: There were 1869 observations read from the data set WORK.ASCONDS.



NOTE: The data set WORK.ASCLNKS has 7360 observations and 3 variables.

NOTE: DATA statement used (Total process time):

real time	3.17 seconds
cpu time	0.50 seconds

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

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.

NOTE: The PROCEDURE PRINT printed pages 2-3.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.07 seconds
cpu time	0.00 seconds

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

NOTE: There were 7360 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 7360 observations and 3 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.01 seconds
cpu time	0.01 seconds

```
59
60     proc print data=asclnks (obs=50);
61         format eventype eventype.;
62         title3 "sample print of work.asclnks - sorted by evntidx";
63     run;
```

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

NOTE: The PROCEDURE PRINT printed page 4.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.01 seconds
cpu time	0.01 seconds

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

NOTE: There were 7360 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 7338 observations and 2 variables.

NOTE: DATA statement used (Total process time):

real time	0.03 seconds
cpu time	0.01 seconds

```

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

```

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

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time      0.01 seconds
cpu time       0.00 seconds

```

```

75
76     *-----
77     * Get PMED records linked to asthma condition records.
78     *-----;
79     PROC SORT DATA=IN.H94A OUT=PMED; BY LINKIDX; RUN;

```

NOTE: There were 317587 observations read from the data set IN.H94A.

NOTE: The data set WORK.PMED has 317587 observations and 13 variables.

NOTE: PROCEDURE SORT used (Total process time):

```

real time      25.17 seconds
cpu time       2.70 seconds

```

```

80
81     DATA ASPMEDS;
82         MERGE PMED (KEEP=LINKIDX RXRECIDX RXNAME RXXP05X PERWT05F)
83             ASCLNKS (IN=INASCLNK KEEP=EVNTIDX RENAME=(EVNTIDX=LINKIDX));
84         BY LINKIDX;
85         IF INASCLNK & PERWT05F>0;
86     RUN;

```

NOTE: There were 317587 observations read from the data set WORK.PMED.

NOTE: There were 7338 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASPMEDS has 10906 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```

real time      1.04 seconds
cpu time       0.61 seconds

```

```

87
88     proc print data=aspmeds (obs=300);
89         by linkidx;
90         id linkidx;
91         var rxrecidx rxname RXXP05X PERWT05F;
92         title3 "sample print of work.aspmeds";
93         title4 "PMED (HC-094A) records which link to condition records coded as asthma";
94     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      0.01 seconds

```

cpu time 0.01 seconds

```
95
96 PROC MEANS DATA=ASPMEDS N SUM;
97   VAR RXXP05X;
98   TITLE3 "Total Rx expenditures associated with asthma";
99   RUN;
```

NOTE: There were 10906 observations read from the data set WORK.ASPMEDS.

NOTE: The PROCEDURE MEANS printed page 15.

NOTE: PROCEDURE MEANS used (Total process time):

real time 0.14 seconds  
cpu time 0.03 seconds

```
100
101 PROC MEANS DATA=ASPMEDS N SUM;
102   VAR RXXP05X;
103   WEIGHT PERWT05F;
104   TITLE3 "Total Rx expenditures associated with asthma";
105   TITLE5 "Weighted";
106   RUN;
```

NOTE: There were 10906 observations read from the data set WORK.ASPMEDS.

NOTE: The PROCEDURE MEANS printed page 16.

NOTE: PROCEDURE MEANS used (Total process time):

real time 0.04 seconds  
cpu time 0.01 seconds

107  
108

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

NOTE: The SAS System used:

real time 41.51 seconds  
cpu time 6.21 seconds

Sample SAS Job for Example B  
 sample print of work.asconds - sorted by condidx  
 COND (H96) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	300180180093	128
2	300180250064	128
3	300490270010	128
4	300600350034	128
5	300610290019	128
6	300680130051	128
7	300830210012	128
8	300910450025	128
9	301170420016	128
10	301320230021	128
11	302050190018	128
12	302560570015	128
13	302740680016	128
14	302850140023	128
15	302920640046	128
16	302930150015	128
17	302950160019	128
18	302950230018	128
19	302980530024	128
20	303350230045	128
21	303490360020	128
22	303510370015	128
23	303600490028	128
24	303670100066	128
25	303730200010	128
26	303760240088	128
27	303780330060	128
28	303780400075	128
29	304220290013	128
30	304220360012	128
31	304250390016	128
32	304280150074	128
33	304570200013	128
34	304710110124	128
35	304740470017	128
36	304780320015	128
37	304840230070	128
38	305260250057	128
39	305260320084	128
40	305350320069	128
41	305460360018	128
42	305490330016	128
43	305490400015	128
44	305540110050	128
45	305890140018	128
46	306130130099	128
47	306160160019	128
48	306160160081	128
49	306460410012	128
50	306630300010	128

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

CONDIDX	EVNTIDX	EVENTYPE
300180180093	300180180134	8 PMED
	300180180261	8 PMED
300180250064	300180250141	8 PMED
300490270010	300490270015	8 PMED
300600350034	300600350155	8 PMED
	300600350162	8 PMED
300610290019	300610290021	1 MVIS
	300610290045	8 PMED
	300610290052	8 PMED
	300610290076	1 MVIS
	300610290083	1 MVIS
	300610290090	1 MVIS
	300610290103	1 MVIS
	300610290110	1 MVIS
	300610290127	1 MVIS
	300610290134	1 MVIS
	300610290141	1 MVIS
	300610290158	1 MVIS
	300610290165	8 PMED
	300610290172	8 PMED
	300610290189	8 PMED
	300610290196	8 PMED
	300610290209	8 PMED
	300610290216	8 PMED
	300610290285	1 MVIS
	300610290329	8 PMED
	300610290336	8 PMED
	300610290343	8 PMED
	300610290350	8 PMED
300610290367	8 PMED	
300610290374	8 PMED	
300610290398	8 PMED	
300610290401	8 PMED	
300830210012	300830210042	4 STAZ
	300830210066	1 MVIS
	300830210097	8 PMED
	300830210100	8 PMED
	300830210155	8 PMED
	300830210162	8 PMED
300830210179	8 PMED	
300910450025	300910450020	1 MVIS
	300910450044	8 PMED
	300910450051	8 PMED

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

CONDIDX	EVNTIDX	EVENTYPE
300910450025	300910450099	8 PMED
	300910450102	8 PMED
301170420016	301170420017	8 PMED
	301170420024	8 PMED
301320230021	301320230030	8 PMED
	301320230047	8 PMED
	301320230232	8 PMED
	301320230249	8 PMED
	301320230270	8 PMED
302560570015	301320230287	8 PMED
	302560570036	8 PMED
	302560570043	1 MVIS
	302560570050	8 PMED
	302560570067	8 PMED
	302560570074	8 PMED
	302560570081	8 PMED
302560570101	8 PMED	
302920640046	302920640065	1 MVIS
	302920640096	8 PMED
	302920640109	8 PMED
	302920640116	8 PMED
302930150015	302930150027	8 PMED
	302930150034	8 PMED
	302930150058	8 PMED
	302930150065	8 PMED
	302930150130	8 PMED
	302930150147	8 PMED
302950230018	302950230019	8 PMED
	302950230057	8 PMED
302980530024	302980530010	1 MVIS
	302980530034	8 PMED
	302980530041	8 PMED

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

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	300180180093	300180180134	8 PMED
2	300180180093	300180180261	8 PMED
3	300180250064	300180250141	8 PMED
4	300490270010	300490270015	8 PMED
5	300600350034	300600350155	8 PMED
6	300600350034	300600350162	8 PMED
7	300610290019	300610290021	1 MVIS
8	300610290019	300610290045	8 PMED
9	300610290019	300610290052	8 PMED
10	300610290019	300610290076	1 MVIS
11	300610290019	300610290083	1 MVIS
12	300610290019	300610290090	1 MVIS
13	300610290019	300610290103	1 MVIS
14	300610290019	300610290110	1 MVIS
15	300610290019	300610290127	1 MVIS
16	300610290019	300610290134	1 MVIS
17	300610290019	300610290141	1 MVIS
18	300610290019	300610290158	1 MVIS
19	300610290019	300610290165	8 PMED
20	300610290019	300610290172	8 PMED
21	300610290019	300610290189	8 PMED
22	300610290019	300610290196	8 PMED
23	300610290019	300610290209	8 PMED
24	300610290019	300610290216	8 PMED
25	300610290019	300610290285	1 MVIS
26	300610290019	300610290329	8 PMED
27	300610290019	300610290336	8 PMED
28	300610290019	300610290343	8 PMED
29	300610290019	300610290350	8 PMED
30	300610290019	300610290367	8 PMED
31	300610290019	300610290374	8 PMED
32	300610290019	300610290398	8 PMED
33	300610290019	300610290401	8 PMED
34	300830210012	300830210042	4 STAZ
35	300830210012	300830210066	1 MVIS
36	300830210012	300830210097	8 PMED
37	300830210012	300830210100	8 PMED
38	300830210012	300830210155	8 PMED
39	300830210012	300830210162	8 PMED
40	300830210012	300830210179	8 PMED
41	300910450025	300910450020	1 MVIS
42	300910450025	300910450044	8 PMED
43	300910450025	300910450051	8 PMED
44	300910450025	300910450099	8 PMED
45	300910450025	300910450102	8 PMED
46	301170420016	301170420017	8 PMED
47	301170420016	301170420024	8 PMED
48	301320230021	301320230030	8 PMED
49	301320230021	301320230047	8 PMED
50	301320230021	301320230232	8 PMED

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

Obs	EVNTIDX	EVENTYPE
1	300180180134	8 PMED
2	300180180261	8 PMED
3	300180250141	8 PMED
4	300490270015	8 PMED
5	300600350155	8 PMED
6	300600350162	8 PMED
7	300610290021	1 MVIS
8	300610290045	8 PMED
9	300610290052	8 PMED
10	300610290076	1 MVIS
11	300610290083	1 MVIS
12	300610290090	1 MVIS
13	300610290103	1 MVIS
14	300610290110	1 MVIS
15	300610290127	1 MVIS
16	300610290134	1 MVIS
17	300610290141	1 MVIS
18	300610290158	1 MVIS
19	300610290165	8 PMED
20	300610290172	8 PMED
21	300610290189	8 PMED
22	300610290196	8 PMED
23	300610290209	8 PMED
24	300610290216	8 PMED
25	300610290285	1 MVIS
26	300610290329	8 PMED
27	300610290336	8 PMED
28	300610290343	8 PMED
29	300610290350	8 PMED
30	300610290367	8 PMED
31	300610290374	8 PMED
32	300610290398	8 PMED
33	300610290401	8 PMED
34	300830210042	4 STAZ
35	300830210066	1 MVIS
36	300830210097	8 PMED
37	300830210100	8 PMED
38	300830210155	8 PMED
39	300830210162	8 PMED
40	300830210179	8 PMED
41	300910450020	1 MVIS
42	300910450044	8 PMED
43	300910450051	8 PMED
44	300910450099	8 PMED
45	300910450102	8 PMED
46	301170420017	8 PMED
47	301170420024	8 PMED
48	301320230030	8 PMED
49	301320230047	8 PMED
50	301320230232	8 PMED



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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
300180180134	300180180134001	ALBUTEROL	21.41	13214.861158
	300180180134002	ALBUTEROL	21.41	13214.861158
300180180261	300180180261001	ALBUTEROL	21.41	13214.861158
	300180180261002	ALBUTEROL	21.41	13214.861158
	300180180261003	ALBUTEROL	21.41	13214.861158
	300180180261004	ALBUTEROL	21.41	13214.861158
300180250141	300180250141001	METHYLPREDNISOLONE	54.00	13114.951312
300490270015	300490270015001	ALBUTEROL INHALER	18.90	10570.872683
300600350155	300600350155001	ALBUTEROL	12.50	5222.961568
	300600350155002	ALBUTEROL	7.25	5222.961568
300600350162	300600350162001	FLOVENT HFA	89.32	5222.961568
	300600350162002	FLOVENT HFA	89.32	5222.961568
300610290045	300610290045001	ADVAIR DISKUS 250/50	146.93	14494.603115
	300610290045002	ADVAIR DISKUS 250/50	146.93	14494.603115
	300610290045003	ADVAIR DISKUS 250/50	146.93	14494.603115
300610290052	300610290052001	ALBUTEROL	9.61	14494.603115
	300610290052002	ALBUTEROL	9.65	14494.603115
	300610290052003	ALBUTEROL	9.62	14494.603115
300610290165	300610290165001	PREDNISONE	5.15	14494.603115
	300610290165002	PREDNISONE	5.15	14494.603115
	300610290165003	PREDNISONE	5.15	14494.603115
	300610290165004	PREDNISONE	5.15	14494.603115
300610290172	300610290172001	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290172002	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290172003	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290172004	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290172005	ADVAIR DISKUS 500/50	211.06	14494.603115
300610290189	300610290189001	SPIRIVA (W/HANDIHALER)	110.19	14494.603115
	300610290189002	SPIRIVA (W/HANDIHALER)	110.19	14494.603115
	300610290189003	SPIRIVA (W/HANDIHALER)	110.19	14494.603115
	300610290189004	SPIRIVA (W/HANDIHALER)	110.19	14494.603115
300610290196	300610290196001	ALBUTEROL	9.61	14494.603115
	300610290196002	ALBUTEROL	9.61	14494.603115
	300610290196003	ALBUTEROL	7.32	14494.603115
	300610290196004	ALBUTEROL	7.32	14494.603115
	300610290196005	ALBUTEROL	9.61	14494.603115
300610290209	300610290209001	ALBUTEROL SULFATE (PF)	7.20	14494.603115

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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
300610290209	300610290209002	ALBUTEROL SULFATE (PF)	7.20	14494.603115
	300610290209003	ALBUTEROL SULFATE (PF)	6.75	14494.603115
	300610290209004	ALBUTEROL SULFATE (PF)	7.11	14494.603115
	300610290209005	ALBUTEROL SULFATE (PF)	7.11	14494.603115
	300610290209006	ALBUTEROL SULFATE (PF)	7.11	14494.603115
300610290216	300610290216001	PREDNISONE	3.30	14494.603115
	300610290216002	PREDNISONE	3.30	14494.603115
	300610290216003	PREDNISONE	3.67	14494.603115
	300610290216004	PREDNISONE	3.67	14494.603115
	300610290216005	PREDNISONE	3.67	14494.603115
300610290329	300610290329001	ADVAIR DISKUS 250/50	153.37	14494.603115
	300610290329002	ADVAIR DISKUS 250/50	153.37	14494.603115
300610290336	300610290336001	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290336002	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290336003	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290336004	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290336005	ADVAIR DISKUS 500/50	211.06	14494.603115
	300610290336006	ADVAIR DISKUS 500/50	211.06	14494.603115
300610290343	300610290343001	ALBUTEROL SULFATE (PF)	6.75	14494.603115
	300610290343002	ALBUTEROL SULFATE (PF)	6.75	14494.603115
	300610290343003	ALBUTEROL SULFATE (PF)	6.75	14494.603115
	300610290343004	ALBUTEROL SULFATE (PF)	6.75	14494.603115
	300610290343005	ALBUTEROL SULFATE (PF)	6.75	14494.603115
	300610290343006	ALBUTEROL SULFATE (PF)	6.75	14494.603115
	300610290343007	ALBUTEROL SULFATE (PF)	6.75	14494.603115
300610290350	300610290350001	PREDNISONE	5.15	14494.603115
	300610290350002	PREDNISONE	5.15	14494.603115
	300610290350003	PREDNISONE	5.15	14494.603115
	300610290350004	PREDNISONE	5.15	14494.603115
	300610290350005	PREDNISONE	5.15	14494.603115
	300610290350006	PREDNISONE	5.15	14494.603115
300610290367	300610290367001	LEVAQUIN (FILM-COATED)	142.74	14494.603115
	300610290367002	LEVAQUIN (FILM-COATED)	142.74	14494.603115
	300610290367003	LEVAQUIN (FILM-COATED)	142.74	14494.603115
	300610290367004	LEVAQUIN (FILM-COATED)	142.74	14494.603115
	300610290367005	LEVAQUIN (FILM-COATED)	142.74	14494.603115
300610290374	300610290374001	VERAPAMIL HCL (WHITE)	20.53	14494.603115
	300610290374002	VERAPAMIL HCL (WHITE)	20.53	14494.603115
	300610290374003	VERAPAMIL HCL (WHITE)	20.53	14494.603115
	300610290374004	VERAPAMIL HCL (WHITE)	20.53	14494.603115
	300610290374005	VERAPAMIL HCL (WHITE)	20.53	14494.603115
	300610290374006	VERAPAMIL HCL (WHITE)	20.53	14494.603115

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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
300610290398	300610290398001	RANITIDINE HCL	6.14	14494.603115
	300610290398002	RANITIDINE HCL	6.14	14494.603115
	300610290398003	RANITIDINE HCL	6.14	14494.603115
	300610290398004	RANITIDINE HCL	6.14	14494.603115
	300610290398005	RANITIDINE HCL	6.14	14494.603115
	300610290398006	RANITIDINE HCL	6.14	14494.603115
300610290401	300610290401001	SINGULAIR (UNIT OF USE)	90.56	14494.603115
	300610290401002	SINGULAIR (UNIT OF USE)	90.56	14494.603115
	300610290401003	SINGULAIR (UNIT OF USE)	90.56	14494.603115
	300610290401004	SINGULAIR (UNIT OF USE)	90.56	14494.603115
	300610290401005	SINGULAIR (UNIT OF USE)	90.56	14494.603115
	300610290401006	SINGULAIR (UNIT OF USE)	90.56	14494.603115
	300610290401007	SINGULAIR (UNIT OF USE)	90.56	14494.603115
300830210097	300830210097001	SINGULAIR (UNIT OF USE)	86.12	14113.182137
300830210100	300830210100001	FLOVENT	129.24	14113.182137
300830210155	300830210155001	PREDNISONE	2.90	14113.182137
300830210162	300830210162001	SINGULAIR	144.89	14113.182137
300830210179	300830210179001	FLOVENT	129.24	14113.182137
300910450044	300910450044001	ADV AIR DISKUS 250/50	430.69	9170.443811
300910450051	300910450051001	ALBUTEROL INHALER	29.79	9170.443811
	300910450051002	ALBUTEROL INHALER	29.79	9170.443811
300910450099	300910450099001	ADV AIR DISKUS 250/50	408.03	9170.443811
	300910450099002	ADV AIR DISKUS 250/50	408.03	9170.443811
300910450102	300910450102001	ALBUTEROL	11.34	9170.443811
	300910450102002	ALBUTEROL	11.34	9170.443811
	300910450102003	ALBUTEROL	11.34	9170.443811
301170420017	301170420017001	CLARINEX	106.75	4349.570359
	301170420017002	CLARINEX	106.75	4349.570359
301170420024	301170420024001	MONTELUKAST	90.69	4349.570359
	301170420024002	MONTELUKAST	90.69	4349.570359
301320230030	301320230030001	ALBUTEROL	11.81	13408.326706
301320230047	301320230047001	ADV AIR DISKUS 500/50	211.06	13408.326706
301320230232	301320230232001	ALBUTEROL	9.65	13408.326706

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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
301320230249	301320230249001	ADVAIR DISKUS 500/50	211.06	13408.326706
301320230270	301320230270001	ALBUTEROL	9.65	13408.326706
	301320230270002	ALBUTEROL	9.65	13408.326706
	301320230270003	ALBUTEROL	9.62	13408.326706
301320230287	301320230287001	ADVAIR DISKUS 500/50	211.06	13408.326706
	301320230287002	ADVAIR DISKUS 500/50	211.06	13408.326706
	301320230287003	ADVAIR DISKUS 500/50	211.06	13408.326706
	301320230287004	ADVAIR DISKUS 500/50	211.06	13408.326706
	301320230287005	ADVAIR DISKUS 500/50	211.06	13408.326706
302560570036	302560570036001	ALBUTEROL INHALER	18.90	4791.575621
302560570050	302560570050001	CLARITIN	10.20	4791.575621
302560570067	302560570067001	ACCUNEB (PF)	63.99	4791.575621
302560570074	302560570074001	RHINOCORT AQUA (120 METERED SPRAYS)	74.29	4791.575621
302560570081	302560570081001	PREDNISOLONE (CHERRY)	20.35	4791.575621
302560570101	302560570101001	ALBUTEROL SULFATE (PF)	30.50	4791.575621
	302560570101002	ALBUTEROL SULFATE (PF)	30.50	4791.575621
302920640096	302920640096001	FLOVENT HFA	94.06	1608.784718
302920640109	302920640109001	FLOVENT HFA	70.77	1608.784718
302920640116	302920640116001	ALBUTEROL	7.25	1608.784718
302930150027	302930150027001	FLOVENT	112.06	5928.229861
	302930150027002	FLOVENT	112.06	5928.229861
302930150034	302930150034001	SEREVENT DISKUS	97.04	5928.229861
	302930150034002	SEREVENT DISKUS	102.22	5928.229861
302930150058	302930150058001	FLOVENT	112.06	5928.229861
302930150065	302930150065001	SEREVENT DISKUS	91.44	5928.229861
302930150130	302930150130001	FLOVENT	112.06	5928.229861
302930150147	302930150147001	SEREVENT DISKUS	98.04	5928.229861
302950230019	302950230019001	ALBUTEROL	39.00	1598.012428
302950230057	302950230057001	ALBUTEROL	14.60	1598.012428
	302950230057002	ALBUTEROL	14.60	1598.012428

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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
302980530034	302980530034001	FLOVENT HFA	78.68	12707.553309
302980530041	302980530041001	ALBUTEROL	21.41	12707.553309
303350230058	303350230058001	ACCOLATE	64.00	7972.673129
303350230089	303350230089001	ADVAIR	67.42	7972.673129
303350230274	303350230274001	PREDNISONE	5.00	7972.673129
	303350230274002	PREDNISONE	5.00	7972.673129
303350230349	303350230349001	ACCOLATE	64.00	7972.673129
	303350230349002	ACCOLATE	64.00	7972.673129
	303350230349003	ACCOLATE	64.00	7972.673129
	303350230349004	ACCOLATE	64.00	7972.673129
303350230370	303350230370001	ADVAIR 100/50	245.00	7972.673129
	303350230370002	ADVAIR 100/50	245.00	7972.673129
	303350230370003	ADVAIR 100/50	245.00	7972.673129
	303350230370004	ADVAIR 100/50	245.00	7972.673129
303350230527	303350230527001	SINGULAIR	112.81	7972.673129
303490360024	303490360024001	SINGULAIR	92.22	2955.316741
303490360031	303490360031001	ALBUTEROL INHALER	21.35	2955.316741
303490360048	303490360048001	FLOVENT	71.41	2955.316741
303490360062	303490360062001	SINGULAIR (UNIT OF USE)	235.13	2955.316741
	303490360062002	SINGULAIR (UNIT OF USE)	235.13	2955.316741
303490360079	303490360079001	FLOVENT	61.73	2955.316741
	303490360079002	FLOVENT	61.73	2955.316741
303490360086	303490360086001	ALBUTEROL INHALER	39.90	2955.316741
303490360144	303490360144001	ALBUTEROL INHALER	21.35	2955.316741
303490360151	303490360151001	FLOVENT HFA	174.94	2955.316741
303510370099	303510370099001	ACCOLATE	84.16	25384.104215
	303510370099002	ACCOLATE	84.16	25384.104215
303510370102	303510370102001	ADVAIR 100/50	132.01	25384.104215
	303510370102002	ADVAIR 100/50	132.01	25384.104215
303510370119	303510370119001	ALBUTEROL	21.41	25384.104215

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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
303510370133	303510370133001	ALBUTEROL	14.60	25384.104215
303510370208	303510370208001	DEXAMETHASONE	13.95	25384.104215
	303510370208002	DEXAMETHASONE	13.95	25384.104215
303510370239	303510370239001	ADVAIR 100/50	132.01	25384.104215
303510370246	303510370246001	ALBUTEROL	21.41	25384.104215
303510370260	303510370260001	ALBUTEROL	7.98	25384.104215
303510370342	303510370342001	ALBUTEROL	7.98	25384.104215
303510370359	303510370359001	ALLEGRA	88.49	25384.104215
	303510370359002	ALLEGRA	88.49	25384.104215
	303510370359003	ALLEGRA	88.49	25384.104215
	303510370359004	ALLEGRA	88.49	25384.104215
	303510370359005	ALLEGRA	88.49	25384.104215
303510370366	303510370366001	ACCOLATE	84.16	25384.104215
	303510370366002	ACCOLATE	84.16	25384.104215
	303510370366003	ACCOLATE	84.16	25384.104215
	303510370366004	ACCOLATE	84.16	25384.104215
	303510370366005	ACCOLATE	84.16	25384.104215
303510370373	303510370373001	ADVAIR 100/50	132.01	25384.104215
	303510370373002	ADVAIR 100/50	132.01	25384.104215
	303510370373003	ADVAIR 100/50	132.01	25384.104215
	303510370373004	ADVAIR 100/50	132.01	25384.104215
	303510370373005	ADVAIR 100/50	132.01	25384.104215
303510370380	303510370380001	ALBUTEROL	21.41	25384.104215
303600490173	303600490173001	XOPENEX (PF)	129.33	12427.409638
303600490217	303600490217001	SINGULAIR	96.87	12427.409638
303670100158	303670100158001	WARFARIN SODIUM	15.95	3871.574902
	303670100158002	WARFARIN SODIUM	15.95	3871.574902
	303670100158003	WARFARIN SODIUM	15.95	3871.574902
	303670100158004	WARFARIN SODIUM	15.95	3871.574902
303730200216	303730200216001	ALBUTEROL	21.41	10062.157830
303730200223	303730200223001	DYTAN (BERRY)	62.49	10062.157830
303730200247	303730200247001	ADVAIR DISKUS 250/50	176.30	10062.157830
303730200261	303730200261001	PREDNISONE	3.14	10062.157830

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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
303730200278	303730200278001	ALBUTEROL	29.66	10062.157830
303730200285	303730200285001	SINGULAIR (UNIT OF USE)	103.13	10062.157830
303730200470	303730200470001	ALBUTEROL INHALER	29.79	10062.157830
303730200487	303730200487001	ADVAIR DISKUS 250/50	120.00	10062.157830
303730200494	303730200494001	ALBUTEROL	29.66	10062.157830
	303730200494002	ALBUTEROL	29.66	10062.157830
303730200507	303730200507001	SINGULAIR	103.13	10062.157830
	303730200507002	SINGULAIR	103.13	10062.157830
	303730200507003	SINGULAIR	103.13	10062.157830
	303730200507004	SINGULAIR	103.13	10062.157830
303760240525	303760240525001	ALBUTEROL	9.45	11756.819120
	303760240525002	ALBUTEROL	9.45	11756.819120
303760241011	303760241011001	ALBUTEROL	9.45	11756.819120
303780330158	303780330158001	ALBUTEROL SULFATE (VIAL)	21.75	18474.466386
	303780330158002	ALBUTEROL SULFATE (VIAL)	21.75	18474.466386
303780330165	303780330165001	FLOVENT HFA	72.91	18474.466386
	303780330165002	FLOVENT HFA	72.91	18474.466386
303780330172	303780330172001	SINGULAIR	90.69	18474.466386
303780330254	303780330254001	PREDNISOLONE SODIUM PHOSPHATE (DYE-FREE, GRAPE)	12.47	18474.466386
	303780330254002	PREDNISOLONE SODIUM PHOSPHATE (DYE-FREE, GRAPE)	12.47	18474.466386
303780330261	303780330261001	XOPENEX (PF)	118.80	18474.466386
303780330292	303780330292001	ALBUTEROL	9.87	18474.466386
303780330312	303780330312001	FLOVENT HFA	72.91	18474.466386
	303780330312002	FLOVENT HFA	76.63	18474.466386
	303780330312003	FLOVENT HFA	72.91	18474.466386
	303780330312004	FLOVENT HFA	76.63	18474.466386
303780330329	303780330329001	ALBUTEROL SULFATE (VIAL)	21.75	18474.466386
303780330336	303780330336001	SINGULAIR (UNIT OF USE)	87.39	18474.466386
	303780330336002	SINGULAIR (UNIT OF USE)	87.39	18474.466386
	303780330336003	SINGULAIR (UNIT OF USE)	87.39	18474.466386
	303780330336004	SINGULAIR (UNIT OF USE)	87.39	18474.466386
	303780330336005	SINGULAIR (UNIT OF USE)	87.39	18474.466386

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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
304220360027	304220360027001	ALBUTEROL	11.11	9874.793586
304220360089	304220360089001	ALBUTEROL	21.41	9874.793586
	304220360089002	ALBUTEROL	21.41	9874.793586
304220360161	304220360161001	ALBUTEROL	17.69	9874.793586
304220360178	304220360178001	ALLEGRA	60.46	9874.793586
304220360192	304220360192001	ADVAIR DISKUS 100/50	130.27	9874.793586
304250390047	304250390047001	ALBUTEROL	29.79	15760.782426
	304250390047002	ALBUTEROL	29.79	15760.782426
304250390054	304250390054001	SINGULAIR	81.42	15760.782426
304250390085	304250390085001	ALBUTEROL	29.79	15760.782426
304250390092	304250390092001	SINGULAIR	81.42	15760.782426
304250390136	304250390136001	ALBUTEROL	29.79	15760.782426
	304250390136002	ALBUTEROL	29.79	15760.782426
	304250390136003	ALBUTEROL	29.79	15760.782426
	304250390136004	ALBUTEROL	29.79	15760.782426
	304250390136005	ALBUTEROL	29.79	15760.782426
	304250390136006	ALBUTEROL	29.79	15760.782426
304280150187	304280150187001	UNIPHYL	71.00	3395.891167
	304280150187002	UNIPHYL	71.00	3395.891167
304280150194	304280150194001	ACCOLATE	84.16	3395.891167
	304280150194002	ACCOLATE	84.16	3395.891167
304280150207	304280150207001	SEREVENT DISKUS	10.00	3395.891167
	304280150207002	SEREVENT DISKUS	10.00	3395.891167
304280150214	304280150214001	FLOVENT	10.00	3395.891167
	304280150214002	FLOVENT	10.00	3395.891167
304280150543	304280150543001	UNIPHYL	71.00	3395.891167
	304280150543002	UNIPHYL	71.00	3395.891167
304280150550	304280150550001	ACCOLATE	84.16	3395.891167
	304280150550002	ACCOLATE	84.16	3395.891167
304280150567	304280150567001	SEREVENT DISKUS	10.00	3395.891167
	304280150567002	SEREVENT DISKUS	10.00	3395.891167
304570200094	304570200094001	ALBUTEROL	29.79	9559.357601



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

PMED (HC-094A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP05X	PERWT05F
304570200094	304570200094002	ALBUTEROL	29.79	9559.357601
304570200107	304570200107001	QVAR	77.44	9559.357601
	304570200107002	QVAR	77.44	9559.357601
304570200169	304570200169001	ALBUTEROL	29.79	9559.357601
304570200176	304570200176001	QVAR	10.61	9559.357601
304710110188	304710110188001	ALBUTEROL INHALER	29.79	20265.653243
304780320048	304780320048001	ALBUTEROL INHALER	29.79	5003.054831
304780320055	304780320055001	SINGULAIR	85.14	5003.054831
304780320062	304780320062001	ADVAIR	114.84	5003.054831
305350320107	305350320107001	ALBUTEROL INHALER	18.90	16723.953247
305350320152	305350320152001	ALBUTEROL	74.65	16723.953247
305460360118	305460360118001	ADVAIR DISKUS 250/50	82.27	904.304728
305460360125	305460360125001	ALBUTEROL	22.69	904.304728
305460360252	305460360252001	ADVAIR DISKUS 250/50	149.07	904.304728
305460360269	305460360269001	LODRANE 24 (DYE-FREE)	30.20	904.304728
305460360276	305460360276001	ALBUTEROL	7.08	904.304728
	305460360276002	ALBUTEROL	9.52	904.304728
	305460360276003	ALBUTEROL	9.52	904.304728
	305460360276004	ALBUTEROL	9.52	904.304728
	305460360276005	ALBUTEROL	9.52	904.304728
	305460360276006	ALBUTEROL	7.08	904.304728
	305460360276007	ALBUTEROL	7.08	904.304728
	305460360276008	ALBUTEROL	9.52	904.304728
	305460360276009	ALBUTEROL	7.08	904.304728
	305460360276010	ALBUTEROL	7.08	904.304728
305460360485	305460360485001	ADVAIR DISKUS 250/50	156.26	904.304728
	305460360485002	ADVAIR DISKUS 250/50	156.26	904.304728
	305460360485003	ADVAIR DISKUS 250/50	156.26	904.304728
	305460360485004	ADVAIR DISKUS 250/50	156.26	904.304728
	305460360485005	ADVAIR DISKUS 250/50	156.26	904.304728
305460360492	305460360492001	ALBUTEROL	18.99	904.304728

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

The MEANS Procedure

Analysis Variable : RXXP05X SUM OF PAYMENTS RXSF05X-RXOU05X(IMPUTED)

N	Sum
10906	792241.41

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

Weighted

The MEANS Procedure

Analysis Variable : RXXP05X SUM OF PAYMENTS RXSF05X-RXOU05X(IMPUTED)

N	Sum
10906	7384252499

1

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

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:  
real time 3.67 seconds  
cpu time 0.92 seconds

NOTE: AUTOEXEC processing beginning; file is C:\Program Files\SAS\SAS 9.1\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1      OPTIONS LS=132 PS=59;
2
3      TITLE1 "HC-094I";
4      TITLE2 "Sample SAS Job for Example C";
5
6      LIBNAME IN "C:\DATA";
```

NOTE: Libref IN was successfully assigned as follows:  
Engine: V9  
Physical Name: C:\DATA

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

NOTE: Format EVENTYPE has been output.

```
21     RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):  
real time 0.10 seconds  
cpu time 0.03 seconds

```
22
23     *-----
24     * Get conditions records coded as asthma.
25     *-----;
26     DATA ASCONDS;
```

2

```

27      SET IN.H96 (KEEP=CONDIDX CCCODEX);
28      IF CCCODEX="128";
29      RUN;

```

NOTE: There were 104855 observations read from the data set IN.H96.  
NOTE: The data set WORK.ASCONDS has 1869 observations and 2 variables.  
NOTE: DATA statement used (Total process time):

real time	1.25 seconds
cpu time	0.22 seconds

```

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

```

NOTE: There were 1869 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCONDS has 1869 observations and 2 variables.  
NOTE: PROCEDURE SORT used (Total process time):

real time	0.07 seconds
cpu time	0.00 seconds

```

35
36      proc print data=asconds (obs=50);
37          title3 "sample print of work.asconds - sorted by condidx";
38          title4 "COND (HC-096) records where cccodex=128";
39      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	0.32 seconds
cpu time	0.09 seconds

```

40
41      PROC SORT DATA=IN.H94IF1 OUT=CLNK; BY CONDIDX; RUN;

```

NOTE: There were 343960 observations read from the data set IN.H94IF1.  
NOTE: The data set WORK.CLNK has 343960 observations and 6 variables.  
NOTE: PROCEDURE SORT used (Total process time):

real time	6.53 seconds
cpu time	1.40 seconds

```

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

```

NOTE: There were 343960 observations read from the data set WORK.CLNK.  
NOTE: There were 1869 observations read from the data set WORK.ASCONDS.

NOTE: The data set WORK.ASCLNKS has 7360 observations and 3 variables.  
NOTE: DATA statement used (Total process time):  
real time 5.12 seconds  
cpu time 0.50 seconds

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

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.  
NOTE: The PROCEDURE PRINT printed pages 2-3.  
NOTE: PROCEDURE PRINT used (Total process time):  
real time 0.07 seconds  
cpu time 0.01 seconds

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

NOTE: There were 7360 observations read from the data set WORK.ASCLNKS.  
NOTE: The data set WORK.ASCLNKS has 7360 observations and 3 variables.  
NOTE: PROCEDURE SORT used (Total process time):  
real time 0.03 seconds  
cpu time 0.03 seconds

```
59
60     proc print data=asclnks (obs=50);
61         format eventype eventype.;
62         title3 "sample print of work.asclnks - sorted by evntidx";
63     run;
```

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.  
NOTE: The PROCEDURE PRINT printed page 4.  
NOTE: PROCEDURE PRINT used (Total process time):  
real time 0.01 seconds  
cpu time 0.01 seconds

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

NOTE: There were 7360 observations read from the data set WORK.ASCLNKS.  
NOTE: The data set WORK.ASCLNKS has 7338 observations and 2 variables.  
NOTE: DATA statement used (Total process time):  
real time 0.03 seconds  
cpu time 0.03 seconds

```

70
71     proc print data=asclnks (obs=50);
72         format eventype eventype.;
73         title3 "sample print of unique evtidxs from work.asclnks";
74     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      0.03 seconds
cpu time       0.01 seconds

```

```

75
76     *-----
77     * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
78     *-----;
79     DATA MVIS;
80         SET IN.H94G (KEEP=EVNTIDX PERWT05F SEETLKPV OBXP05X);
81         IF PERWT05F > 0 & SEETLKPV NE 2;
82     RUN;

```

NOTE: There were 152748 observations read from the data set IN.H94G.

NOTE: The data set WORK.MVIS has 148765 observations and 4 variables.

NOTE: DATA statement used (Total process time):

```

real time      10.46 seconds
cpu time       0.53 seconds

```

```

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

```

NOTE: There were 148765 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.MVIS has 148765 observations and 4 variables.

NOTE: PROCEDURE SORT used (Total process time):

```

real time      0.48 seconds
cpu time       0.46 seconds

```

```

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

```

NOTE: There were 7338 observations read from the data set WORK.ASCLNKS.

NOTE: There were 148765 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.ASMVIS has 2174 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```

real time      0.26 seconds

```

cpu time 0.24 seconds

```
95
96   proc print data=asmvis (obs=50);
97       format eventype eventype.;
98       title3 "sample print of work.asmvis";
99       title4 "unique evntidxs from work.asclinks that are non-telephone MVIS (HC-094G) events";
100   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

```
101
102   PROC MEANS DATA=ASMVIS N SUM;
103       VAR OBXP05X;
104       TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
105   RUN;
```

NOTE: There were 2174 observations read from the data set WORK.ASMVIS.

NOTE: The PROCEDURE MEANS printed page 7.

NOTE: PROCEDURE MEANS used (Total process time):

real time 0.14 seconds  
cpu time 0.01 seconds

```
106
107   PROC MEANS DATA=ASMVIS N SUM;
108       VAR OBXP05X;
109       WEIGHT PERWT05F;
110       TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
111       TITLE5 "Weighted";
112   RUN;
```

NOTE: There were 2174 observations read from the data set WORK.ASMVIS.

NOTE: The PROCEDURE MEANS printed page 8.

NOTE: PROCEDURE MEANS used (Total process time):

real time 0.04 seconds  
cpu time 0.03 seconds

113  
114  
115

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

NOTE: The SAS System used:

real time 29.10 seconds  
cpu time 4.70 seconds



Sample SAS Job for Example C  
 sample print of work.asconds - sorted by condidx  
 COND (HC-096) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	300180180093	128
2	300180250064	128
3	300490270010	128
4	300600350034	128
5	300610290019	128
6	300680130051	128
7	300830210012	128
8	300910450025	128
9	301170420016	128
10	301320230021	128
11	302050190018	128
12	302560570015	128
13	302740680016	128
14	302850140023	128
15	302920640046	128
16	302930150015	128
17	302950160019	128
18	302950230018	128
19	302980530024	128
20	303350230045	128
21	303490360020	128
22	303510370015	128
23	303600490028	128
24	303670100066	128
25	303730200010	128
26	303760240088	128
27	303780330060	128
28	303780400075	128
29	304220290013	128
30	304220360012	128
31	304250390016	128
32	304280150074	128
33	304570200013	128
34	304710110124	128
35	304740470017	128
36	304780320015	128
37	304840230070	128
38	305260250057	128
39	305260320084	128
40	305350320069	128
41	305460360018	128
42	305490330016	128
43	305490400015	128
44	305540110050	128
45	305890140018	128
46	306130130099	128
47	306160160019	128
48	306160160081	128
49	306460410012	128
50	306630300010	128

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

CONDIDX	EVNTIDX	EVENTYPE
300180180093	300180180134	8 PMED
	300180180261	8 PMED
300180250064	300180250141	8 PMED
300490270010	300490270015	8 PMED
300600350034	300600350155	8 PMED
	300600350162	8 PMED
300610290019	300610290021	1 MVIS
	300610290045	8 PMED
	300610290052	8 PMED
	300610290076	1 MVIS
	300610290083	1 MVIS
	300610290090	1 MVIS
	300610290103	1 MVIS
	300610290110	1 MVIS
	300610290127	1 MVIS
	300610290134	1 MVIS
	300610290141	1 MVIS
	300610290158	1 MVIS
	300610290165	8 PMED
	300610290172	8 PMED
	300610290189	8 PMED
	300610290196	8 PMED
	300610290209	8 PMED
	300610290216	8 PMED
	300610290285	1 MVIS
	300610290329	8 PMED
	300610290336	8 PMED
	300610290343	8 PMED
	300610290350	8 PMED
300610290367	8 PMED	
300610290374	8 PMED	
300610290398	8 PMED	
300610290401	8 PMED	
300830210012	300830210042	4 STAZ
	300830210066	1 MVIS
	300830210097	8 PMED
	300830210100	8 PMED
	300830210155	8 PMED
	300830210162	8 PMED
	300830210179	8 PMED
300910450025	300910450020	1 MVIS
	300910450044	8 PMED
	300910450051	8 PMED

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

CONDIDX	EVNTIDX	EVENTTYPE
300910450025	300910450099	8 PMED
	300910450102	8 PMED
301170420016	301170420017	8 PMED
	301170420024	8 PMED
301320230021	301320230030	8 PMED
	301320230047	8 PMED
	301320230232	8 PMED
	301320230249	8 PMED
	301320230270	8 PMED
302560570015	301320230287	8 PMED
	302560570036	8 PMED
	302560570043	1 MVIS
	302560570050	8 PMED
	302560570067	8 PMED
	302560570074	8 PMED
	302560570081	8 PMED
302560570101	8 PMED	
302920640046	302920640065	1 MVIS
	302920640096	8 PMED
	302920640109	8 PMED
	302920640116	8 PMED
302930150015	302930150027	8 PMED
	302930150034	8 PMED
	302930150058	8 PMED
	302930150065	8 PMED
	302930150130	8 PMED
	302930150147	8 PMED
302950230018	302950230019	8 PMED
	302950230057	8 PMED
302980530024	302980530010	1 MVIS
	302980530034	8 PMED
	302980530041	8 PMED

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

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	300180180093	300180180134	8 PMED
2	300180180093	300180180261	8 PMED
3	300180250064	300180250141	8 PMED
4	300490270010	300490270015	8 PMED
5	300600350034	300600350155	8 PMED
6	300600350034	300600350162	8 PMED
7	300610290019	300610290021	1 MVIS
8	300610290019	300610290045	8 PMED
9	300610290019	300610290052	8 PMED
10	300610290019	300610290076	1 MVIS
11	300610290019	300610290083	1 MVIS
12	300610290019	300610290090	1 MVIS
13	300610290019	300610290103	1 MVIS
14	300610290019	300610290110	1 MVIS
15	300610290019	300610290127	1 MVIS
16	300610290019	300610290134	1 MVIS
17	300610290019	300610290141	1 MVIS
18	300610290019	300610290158	1 MVIS
19	300610290019	300610290165	8 PMED
20	300610290019	300610290172	8 PMED
21	300610290019	300610290189	8 PMED
22	300610290019	300610290196	8 PMED
23	300610290019	300610290209	8 PMED
24	300610290019	300610290216	8 PMED
25	300610290019	300610290285	1 MVIS
26	300610290019	300610290329	8 PMED
27	300610290019	300610290336	8 PMED
28	300610290019	300610290343	8 PMED
29	300610290019	300610290350	8 PMED
30	300610290019	300610290367	8 PMED
31	300610290019	300610290374	8 PMED
32	300610290019	300610290398	8 PMED
33	300610290019	300610290401	8 PMED
34	300830210012	300830210042	4 STAZ
35	300830210012	300830210066	1 MVIS
36	300830210012	300830210097	8 PMED
37	300830210012	300830210100	8 PMED
38	300830210012	300830210155	8 PMED
39	300830210012	300830210162	8 PMED
40	300830210012	300830210179	8 PMED
41	300910450025	300910450020	1 MVIS
42	300910450025	300910450044	8 PMED
43	300910450025	300910450051	8 PMED
44	300910450025	300910450099	8 PMED
45	300910450025	300910450102	8 PMED
46	301170420016	301170420017	8 PMED
47	301170420016	301170420024	8 PMED
48	301320230021	301320230030	8 PMED
49	301320230021	301320230047	8 PMED
50	301320230021	301320230232	8 PMED

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

Obs	EVNTIDX	EVENTYPE
1	300180180134	8 PMED
2	300180180261	8 PMED
3	300180250141	8 PMED
4	300490270015	8 PMED
5	300600350155	8 PMED
6	300600350162	8 PMED
7	300610290021	1 MVIS
8	300610290045	8 PMED
9	300610290052	8 PMED
10	300610290076	1 MVIS
11	300610290083	1 MVIS
12	300610290090	1 MVIS
13	300610290103	1 MVIS
14	300610290110	1 MVIS
15	300610290127	1 MVIS
16	300610290134	1 MVIS
17	300610290141	1 MVIS
18	300610290158	1 MVIS
19	300610290165	8 PMED
20	300610290172	8 PMED
21	300610290189	8 PMED
22	300610290196	8 PMED
23	300610290209	8 PMED
24	300610290216	8 PMED
25	300610290285	1 MVIS
26	300610290329	8 PMED
27	300610290336	8 PMED
28	300610290343	8 PMED
29	300610290350	8 PMED
30	300610290367	8 PMED
31	300610290374	8 PMED
32	300610290398	8 PMED
33	300610290401	8 PMED
34	300830210042	4 STAZ
35	300830210066	1 MVIS
36	300830210097	8 PMED
37	300830210100	8 PMED
38	300830210155	8 PMED
39	300830210162	8 PMED
40	300830210179	8 PMED
41	300910450020	1 MVIS
42	300910450044	8 PMED
43	300910450051	8 PMED
44	300910450099	8 PMED
45	300910450102	8 PMED
46	301170420017	8 PMED
47	301170420024	8 PMED
48	301320230030	8 PMED
49	301320230047	8 PMED
50	301320230232	8 PMED

Sample SAS Job for Example C  
 sample print of work.asmvis

unique evtntidx from work.asclinks that are non-telephone MVIS (HC-094G) events

Obs	EVNTIDX	EVENTYPE	SEETLKPV	OBP05X	PERWT05F
1	300610290021	1 MVIS	1	41.00	14494.60
2	300610290076	1 MVIS	1	145.58	14494.60
3	300610290083	1 MVIS	1	176.04	14494.60
4	300610290090	1 MVIS	1	60.89	14494.60
5	300610290103	1 MVIS	1	143.45	14494.60
6	300610290110	1 MVIS	1	267.81	14494.60
7	300610290127	1 MVIS	1	80.58	14494.60
8	300610290134	1 MVIS	1	60.89	14494.60
9	300610290141	1 MVIS	1	60.89	14494.60
10	300610290158	1 MVIS	1	121.78	14494.60
11	300610290285	1 MVIS	1	60.89	14494.60
12	300830210066	1 MVIS	1	44.51	14113.18
13	300910450020	1 MVIS	1	30.57	9170.44
14	302560570043	1 MVIS	1	105.70	4791.58
15	302920640065	1 MVIS	1	50.48	1608.78
16	302980530010	1 MVIS	1	62.00	12707.55
17	302980530065	1 MVIS	1	95.00	12707.55
18	303510370044	1 MVIS	1	69.50	25384.10
19	303510370195	1 MVIS	1	47.14	25384.10
20	303510370277	1 MVIS	1	70.00	25384.10
21	303600490060	1 MVIS	1	20.00	12427.41
22	303670100312	1 MVIS	1	21.28	3871.57
23	303670100329	1 MVIS	1	37.50	3871.57
24	303730200014	1 MVIS	1	81.27	10062.16
25	303730200021	1 MVIS	1	51.99	10062.16
26	303730200038	1 MVIS	1	81.27	10062.16
27	303730200045	1 MVIS	1	51.99	10062.16
28	303730200052	1 MVIS	1	51.99	10062.16
29	303730200069	1 MVIS	1	81.27	10062.16
30	303730200165	1 MVIS	1	79.97	10062.16
31	303730200172	1 MVIS	1	66.00	10062.16
32	303730200189	1 MVIS	1	229.00	10062.16
33	303760240258	1 MVIS	1	55.00	11756.82
34	303760240265	1 MVIS	1	27.40	11756.82
35	303760240272	1 MVIS	1	55.00	11756.82
36	303760240289	1 MVIS	1	55.00	11756.82
37	303760240296	1 MVIS	1	55.00	11756.82
38	303760240316	1 MVIS	1	27.40	11756.82
39	303760240330	1 MVIS	1	27.40	11756.82
40	303760240347	1 MVIS	1	55.00	11756.82
41	303760240361	1 MVIS	1	27.40	11756.82
42	303760240378	1 MVIS	1	27.40	11756.82
43	303760240498	1 MVIS	1	27.40	11756.82
44	303760240532	1 MVIS	1	109.00	11756.82
45	303760240549	1 MVIS	1	55.00	11756.82
46	303760240556	1 MVIS	1	55.00	11756.82
47	303760240570	1 MVIS	1	27.40	11756.82
48	303760240587	1 MVIS	1	27.40	11756.82
49	303760240594	1 MVIS	1	55.00	11756.82
50	303760240607	1 MVIS	1	27.40	11756.82

Sample SAS Job for Example C

Total medical visit expenditures (excluding telephone) associated with asthma

The MEANS Procedure

Analysis Variable : OBP05X SUM OF OBSF05X - OBOT05X (IMPUTED)

N	Sum
2174	212947.90

Sample SAS Job for Example C

Total medical visit expenditures (excluding telephone) associated with asthma

Weighted

The MEANS Procedure

Analysis Variable : OBP05X SUM OF OBSF05X - OBOT05X (IMPUTED)

N	Sum
2174	1858208530