

**MEPS HC-085I:  
Appendix to MEPS 2004 Event Files  
HC-085A - HC-085H  
November 2006**

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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**

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 noninstitutionalized population. MEPS is co-sponsored by the Agency for Healthcare Research and Quality (AHRQ) and the National Center for Health Statistics (NCHS), and has been conducted annually since 1996. The predecessor surveys to MEPS were the 1977 National Medical Care Expenditure Survey (NMCES, also known as NMES-1) and the 1987 National Medical Expenditure Survey (NMES-2).

MEPS is a family of three surveys. The Household Component (HC) is the core survey and also forms the basis for the Medical Provider Component (MPC). Together these two surveys yield comprehensive data that provide national estimates of the level and distribution of health care use and expenditures, support health services research, and can be used to assess health care policy implications. The third survey, the Insurance Component (IC), is a survey of private and public sector employers that provides national and state level estimates of employer-sponsored health insurance coverage and cost.

### **1.0 Household Component**

The MEPS HC, a nationally representative survey of the U.S. civilian noninstitutionalized population, collects medical expenditure data at both the person and household levels. Using computer-assisted personal interviewing (CAPI) technology, the HC collects detailed data on demographic characteristics, health conditions, health status, use of medical care services, charges and payments, access to care, satisfaction with care, health insurance coverage, income, and employment.

The HC is based on an overlapping panel design in which data covering a two year period are collected through a preliminary contact followed by a series of five rounds of interviews over a 2 ½-year period. Data on medical expenditures and use for two calendar years are collected from each household. This series of data collection rounds is launched each year on a new sample panel of households, and annual data are developed by combining data from the first year of the new panel with that from the second year of the previous panel.

Each year's sample for the MEPS HC is drawn from respondents to the previous year's National Health Interview Survey (NHIS). The NHIS provides a nationally representative sample of the U.S. civilian noninstitutionalized population, with an over-sampling of Hispanics and blacks that carries over to the MEPS sample. In addition, the MEPS sample design over-samples Asians and persons in low income families.

## **2.0 Medical Provider Component**

The MEPS MPC collects data from providers that are primarily used to supplement and/or replace information on medical care expenditures reported in the MEPS HC. The survey contacts medical providers and pharmacies identified by household respondents and for which signed Health Insurance Portability and Accountability Act of 1996 (HIPAA) compliant permission forms have been obtained from family members who received services from the medical providers and pharmacies.

The MPC sample includes all hospitals, emergency rooms, home health agencies, outpatient departments and pharmacies reported by HC respondents as well as all physician's who provide services for patients in hospitals but bill separately from the hospital. Office based medical providers where the provider is either a doctor of medicine (MD) or Osteopathy (DO) or practices under the direct supervision of an MD or DO are included in the MPC as well.

Data are collected on medical and financial characteristics of medical and pharmacy events reported by HC respondents. These data include dates of visit, diagnosis and procedure codes, charges and payments. These data allow records to be matched with household events to facilitate expenditure imputation. The MPC was not designed as a stand alone survey to generate national estimates. The MPC data are collected from sampled providers through an initial screening telephone contact to verify provider eligibility, a mailed or faxed questionnaire, and a phone call to collect the data. Many providers prefer to send electronic, fax, or hard copies of records from which the necessary information can be abstracted. To supplement abstraction, telephone calls are placed to providers to clarify items, obtain critical information that may be missing, and follow-up on nonresponse.

## **3.0 Insurance Component**

The MEPS IC collects data on health insurance plans obtained through private and public-sector employers. Data obtained in the IC include the number and types of private insurance plans offered, benefits associated with these plans, premiums, contributions by employers and employees, eligibility requirements, and employer characteristics.

Establishments participating in the MEPS IC are selected through two sampling frames:

- A Bureau of the Census list frame of private sector business establishments.
- The Census of Governments from the Bureau of the Census.

Data from these two Census Bureau sampling frames are used to produce annual national and state estimates of the supply and cost of private health insurance available to American workers and to evaluate policy issues pertaining to health insurance. National estimates of employer contributions to group insurance from the MEPS IC are used in the computation of Gross Domestic Product (GDP) by the Bureau of Economic Analysis.

The MEPS IC is an annual survey. Data are collected from the selected organizations through a prescreening telephone interview, a mailed questionnaire, and a telephone follow-up for non-respondents.

#### **4.0 Survey Management**

MEPS HC data are collected under the authority of the Public Health 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 this Act and the Privacy Act. NCHS provides consultation and technical assistance.

MEPS IC data are collected under the authority of the Public Health Service Act and under the authority provided in Title 13, United States Code (U.S.C.). The data are collected under an interagency agreement with the U.S. Census Bureau. Data sets and summary statistics are edited and published in accordance with the confidentiality provisions of this Act, Title 13 U.S.C., and the Privacy Act.

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). (MEPS IC micro data files are confidential and are only accessible for approved research projects at the Census Bureau's Research Data Centers.) 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-085I, which is the Appendix to MEPS releases HC-085A through HC-085H. 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 both HTML and 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 codebooks (provided as files H85IF1CB.PDF and H85IF2CB.PDF). It contains the following sections:

- Data File Information
- Merging MEPS Data Files
- Crosswalk of Clinical Classification Code to ICD-9-CM Code
- 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: <<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 2004 event-level data files. File 1, the H85IF1 or CLNK file, is used for linking the MEPS condition file with the MEPS event files; File 2, the H85IF2 or RXLK file, is used for linking the MEPS prescribed medicines event file with other MEPS event files.

The CLNK file contains 5 variables and has a logical record length of 57 with an additional 2-byte carriage return/line feed at the end of each record. The RXLK file contains 5 variables and has a logical record length of 57 with an additional 2-byte carriage return/line feed at the end of each record.

### **2.1 Using MEPS Data for Trend and Longitudinal Analysis**

MEPS began in 1996 and several annual data files have been released. As more years of data are produced, MEPS will become increasingly valuable for examining health care trends. 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 are attributable to sampling variation. MEPS expenditure estimates are especially sensitive to sampling variation due to the underlying skewed distribution of expenditures. For example, 1

percent of the population accounts for about one-quarter of all expenditures. The extent to which observations with extremely high expenditures are captured in the MEPS sample varies from year to year (especially for smaller population subgroups), which can produce substantial shifts in estimates of means or totals that are simply an artifact of the sample(s). 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 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 trend analyses of MEPS data such as pooling time periods for comparison (e.g. 1996-97 versus 1998-99), 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 because performing numerous statistical significance tests of trend increases the likelihood of inappropriately concluding a change is statistically significant.

The records on this file can be linked to all other 2004 MEPS-HC public use data sets by the sample person identifier (DUPERSID).

## 2.2 Codebook Format

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

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

## 2.3 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.

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

File 1 (H85IF1) or the CLNK file, contains the variables needed to link each record on the MEPS 2004 condition file, HC-087, with one or more records on the MEPS 2004 event files, HC-085A through HC-085H. 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 2004 Condition file, HC-087. 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 2004 event files, HC-085B through HC-085H. (EVNTIDX is not included on the 2004 Prescription Medicines event file, HC-085A; 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 which 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-085G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-085F
- 3 = EROM – emergency room visit event contained on MEPS release HC-085E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-085D
- 7 = HVIS – home health visit event contained on MEPS release HC-085H
- 8 = PMED – prescribed medicines event contained on MEPS release HC-085A

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

File 2 (H85IF2) or the RXLK file, contains the variables needed to link each record on the MEPS 2004 prescribed medicines file, HC-085A, with one or more records on the MEPS 2004 event files, HC-085B through HC-085H. 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 which uniquely identifies each event for a person and corresponds to a unique record on one of the MEPS 2004 event files, HC-085B through HC-085H. There may be more than one record on the RXLK file for a specific EVNTIDX value.

LINKIDX is the 12-digit number which identifies the record(s) on the prescribed medicines file, HC-085A 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-085A file for a specific LINKIDX value.

RXLKIDX is the 24-digit number which 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-085G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-085F
- 3 = EROM – emergency room visit event contained on MEPS release HC-085E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-085D
- 5 = DVIS – dental visit event contained on MEPS release HC-085B
- 6 = OMED – other medical expense event contained on MEPS release HC-085C

## **2.6 2004 Condition-Event Frequency Table**

The files H85IT1.HTM and H85IT1.PDF contain the MEPS 2004 Condition-Event Frequency table. This table contains unweighted and weighted counts of records on the MEPS 2004 event files, HC-085A through HC-085H, for each of the condition, procedure and clinical classification codes contained on the MEPS 2004 condition file, HC-087. Attachment 1 contains a crosswalk of the clinical classification codes to ICD-9-CM codes.

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-087 documentation.

## **2.7 2004 Utilization and Expenditures Summary Table**

The files H85IT2.HTM and H85IT2.PDF contain the MEPS 2004 Utilization and Expenditures Summary table. This table contains statistics for all of the utilization and expenditure variables contained on the MEPS 2004 Full Year Use and Expenditure Data file, HC-089. For each of these variables, the following statistics are provided from the HC-089 file, and from the corresponding event-level file(s) HC-085A through HC-085H:

Number of persons with positive person-level weight (PERWT04F) 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-082 variables from the event-level files.

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

This section provides information on using each of the two HC-085I files, RXLK and CLNK, to link with the files contained in MEPS releases HC-087 and HC-085A through HC-085H. 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-087), the Prescribed Medicines and Office-Based Medical Provider Visits Event Files (HC-085A and HC-085G)**

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-087), the CLNK file (HC-085I1), the office-based medical provider visit event file (HC-085G), the RXLK file (HC-085I2), and the prescribed medicines event file (HC-085A). It includes the following major steps:

1. From HC-087 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-085G 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-085G 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-085A linked to those visits.
6. Using these record IDs obtain the linked records from the HC-085A 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 with the Medical Conditions File (HC-087) and the Prescribed Medicines Event File (HC-085A)**

This example calculates the total expenditure for prescribed medicines associated with asthma, using the condition file (HC-087), the CLNK file and the prescribed medicines event file (HC-085A). It includes the following major steps:

1. From HC-087 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-085A 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-087) and Office-Based Medical Provider Visits Event File (HC-085G)**

This example calculates the total expenditures for office-based medical provider visits associated with asthma, using the condition file (HC-087), the CLNK file and the office-based medical provider visits event file (HC-085G). It includes the following major steps:

1. From HC-087 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-085G 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-085G 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 Example D: Using the RXLK File with the Other Medical Expenses Event File (HC-085C)**

This example calculates the total prescription expenditures for other medical events reported by the household with type of other medical expense indicated as insulin (OMTYPEX=2), using the RXLK file and the other medical expenses event file (HC-085C). It includes the following major steps:

1. From HC-085C file select only records for other medical expense type of insulin, for persons with a positive weight.
2. Use the RXLK file to obtain unique record IDs of prescribed medicine events which are linked to each of the selected other medical expense records.
3. Use the selected record IDs from the RXLK file to obtain the linked prescribed medicines event records from the HC-085A file, and calculate the weighted sum of the expenditure variable.

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

### **3.5 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.

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

When using RXLK, 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.

**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
0339	0341	0363	03681	03689	0369	037	0392	0393	0394	0398	0399

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

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									
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**30 Cancer of testis**

1860	1869	V1047									
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**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
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**33 Cancer of kidney and renal pelvis**

1890	1891	V1052									
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**34 Cancer of other urinary organs**

1892	1893	1894	1898	1899	2339	V1050	V1059				
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**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										
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**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				
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**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	
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**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							
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**54 Gout and other crystal arthropathies**

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

**55 Fluid and electrolyte disorders**

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

**56 Cystic fibrosis**

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

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

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

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

**59 Deficiency and other anemia**

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

**60 Acute posthemorrhagic anemia**

2851

**61 Sickle cell anemia**

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

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

**63 Diseases of white blood cells**

2880 2881 2882 2883 2888 2889

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

3320

**80 Multiple sclerosis**

340

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

**84 Headache; including migraine**

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

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

3481 7800 78001 78003 78009

**86 Cataract**

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

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

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

**88 Glaucoma**

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

**89 Blindness and vision defects**

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

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

0213 03281 05320 05321 05322 05329 05440 05441 05442 05443 05444 05449  
05571 0760 0761 0769 0770 0771 0772 0773 0774 0778 0779 07798  
07799 11502 11512 11592 1301 1302 1391 36000 36001 36002 36003 36004  
36011 36012 36013 36014 36019 36300 36301 36303 36304 36305 36306 36307  
36308 36310 36311 36312 36313 36314 36315 36320 36321 36322 36400 36401  
36402 36403 36404 36405 36410 36411 36421 36422 36423 36424 3643 37020  
37021 37022 37023 37024 37031 37032 37033 37034 37035 37040 37044 37049  
37050 37052 37054 37055 37059 3708 3709 37200 37201 37202 37203 37204  
37205 37210 37211 37212 37213 37214 37215 37220 37221 37222 37230 37231



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

**91 Other eye disorders**

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

**92 Otitis media and related conditions**

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

**93 Conditions associated with dizziness or vertigo**

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

**94 Other ear and sense organ disorders**

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

**95 Other nervous system disorders**

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

**96 Heart valve disorders**

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

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

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

**98 Essential hypertension**

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

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

**100 Acute myocardial infarction**

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

**101 Coronary atherosclerosis and other heart disease**

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

**102 Nonspecific chest pain**

78650 78651 78659

**103 Pulmonary heart disease**

4150 4151 41519 4160 4161 4168 4169 4170 4171 4178 4179

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

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

**105 Conduction disorders**

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

**106 Cardiac dysrhythmias**

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

**107 Cardiac arrest and ventricular fibrillation**

42741 42742 4275

**108 Congestive heart failure; nonhypertensive**

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

<b>109</b>	<b>Acute cerebrovascular disease</b>										
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							

**120 Hemorrhoids**

4550 4551 4552 4553 4554 4555 4556 4557 4558 4559

**121 Other diseases of veins and lymphatics**

4563 4564 4565 4566 4568 4570 4571 4572 4578 4579 4591 45910  
45911 45912 45913 45919 4592 45930 45931 45932 45933 45939 45981

**122 Pneumonia (except that caused by tuberculosis or sexually transmitted disease)**

00322 0203 0204 0205 0212 0221 0310 0391 0521 0551 0730 0830  
1124 1140 1144 1145 11505 11515 11595 1304 1363 4800 4801 4802  
4803 4808 4809 481 4820 4821 4822 4823 48230 48231 48232 48239  
4824 48240 48241 48249 4828 48281 48282 48283 48284 48289 4829 483  
4830 4831 4838 4841 4843 4845 4846 4847 4848 485 486 5130  
5171

**123 Influenza**

4870 4871 4878

**124 Acute and chronic tonsillitis**

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

**125 Acute bronchitis**

4660 4661 46611 46619

**126 Other upper respiratory infections**

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

**127 Chronic obstructive pulmonary disease and bronchiectasis**

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

**128 Asthma**

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

**129 Aspiration pneumonitis; food/vomitus**

5070

**130 Pleurisy; pneumothorax; pulmonary collapse**

5100 5109 5110 5111 5118 5119 5120 5128 5180 5181 5182

**131 Respiratory failure; insufficiency; arrest (adult)**

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

**132 Lung disease due to external agents**

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

**133 Other lower respiratory disease**

5131 514 515 5160 5161 5162 5163 5168 5169 5172 5178 5183  
5184 51889 5194 5198 5199 7825 78600 78601 78602 78603 78604 78605  
78606 78607 78609 7862 7863 7864 78652 7866 7867 7868 7869 7931  
7942 V126 V1260 V1261 V1269 V426

**134 Other upper respiratory disease**

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

**135 Intestinal infection**

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

**136 Disorders of teeth and jaw**

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

**137 Diseases of mouth; excluding dental**

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

**138 Esophageal disorders**

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

**139 Gastroduodenal ulcer (except hemorrhage)**

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

**140 Gastritis and duodenitis**

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

**141 Other disorders of stomach and duodenum**

5360	5361	5362	5363	5368	5369	5370	5371	5372	5373	5374	5375
5376	53781	53782	53783	53784	53789	5379					

**142 Appendicitis and other appendiceal conditions**

5400	5401	5409	541	542	5430	5439					
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**143 Abdominal hernia**

55000	55001	55002	55003	55010	55011	55012	55013	55090	55091	55092	55093
55100	55101	55102	55103	5511	55120	55121	55129	5513	5518	5519	55200
55201	55202	55203	5521	55220	55221	55229	5523	5528	5529	55300	55301
55302	55303	5531	55320	55321	55329	5533	5538	5539			

**144 Regional enteritis and ulcerative colitis**

5550	5551	5552	5559	556	5560	5561	5562	5563	5564	5565	5566
5568	5569										

**145 Intestinal obstruction without hernia**

5600	5601	5602	56030	56031	56039	56081	56089	5609			
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**146 Diverticulosis and diverticulitis**

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

5646	5650	5651	566	5690	5691	5692	56941	56942	56949		
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**148 Peritonitis and intestinal abscess**

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

**149 Biliary tract disease**

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

**150 Liver disease; alcohol-related**

5710 5711 5712 5713

**151 Other liver diseases**

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

**152 Pancreatic disorders (not diabetes)**

5770 5771 5772 5778 5779 5794

**153 Gastrointestinal hemorrhage**

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

**154 Noninfectious gastroenteritis**

5589

**155 Other gastrointestinal disorders**

5581 5582 5640 56400 56401 56402 56409 5641 5645 5647 5648 56481  
56489 5649 5680 56881 56882 56889 5689 56981 56982 56983 56984 56985  
56986 56989 5699 5790 5791 5792 5798 5799 7871 7872 7873 7874  
7875 7876 7877 7879 78791 78799 7892 7893 78930 78931 78932 78933  
78934 78935 78936 78937 78939 7894 78940 78941 78942 78943 78944 78945  
78946 78947 78949 7899 7921 7934 7936 V127 V1270 V1279 V416 V441  
V442 V443 V444 V453 V473 V535 V551 V552 V553 V554

**156 Nephritis; nephrosis; renal sclerosis**

5800 5804 58081 58089 5809 5810 5811 5812 5813 58181 58189 5819  
5820 5821 5822 5824 58281 58289 5829 5830 5831 5832 5834 5836  
5837 58381 58389 5839 587

**157 Acute and unspecified renal failure**

5845 5846 5847 5848 5849 586



**158 Chronic renal failure**

585 5853 5854 5855 5856 5859 7925 V420 V451 V560 V561 V562  
V5631 V5632 V568

**159 Urinary tract infections**

03284 59000 59001 59010 59011 5902 5903 59080 59081 5909 5950 5951  
5952 5953 5954 59581 59582 59589 5959 5970 59780 59781 59789 59800  
59801 5990

**160 Calculus of urinary tract**

5920 5921 5929 5940 5941 5942 5948 5949 7880 V1301

**161 Other diseases of kidney and ureters**

5851 5852 5880 5881 5888 58881 58889 5889 5890 5891 5899 591  
5930 5931 5932 5933 5934 5935 5936 5937 59370 59371 59372 59373  
59381 59382 59389 5939

**162 Other diseases of bladder and urethra**

5960 5961 5962 5963 5964 5965 59651 59652 59653 59654 59655 59659  
5966 5967 5968 5969 5981 5982 5988 5989 5991 5992 5993 5994  
5995 59981 59982 59983 59984

**163 Genitourinary symptoms and ill-defined conditions**

5996 59960 59969 5997 5998 59989 5999 7881 7882 78820 78821 78829  
7883 78830 78831 78832 78833 78834 78835 78836 78837 78838 78839 7884  
78841 78842 78843 7885 7886 78861 78862 78863 78869 7887 7888 7889  
7910 7911 7912 7913 7914 7917 7919 7935 7944 V130 V1300 V1302  
V1303 V1309 V417 V435 V445 V4450 V4451 V4452 V4459 V446 V474 V475  
V536 V555 V556

**164 Hyperplasia of prostate**

600 6000 60000 60001 6001 60010 60011 6002 60020 60021 6003 6009  
60090 60091

**165 Inflammatory conditions of male genital organs**

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

**166 Other male genital disorders**

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

**167 Nonmalignant breast conditions**

6100 6101 6102 6103 6104 6108 6109 6110 6111 6112 6113 6114  
6115 6116 61171 61172 61179 6118 6119 7938 79380 79381 79389

**168 Inflammatory diseases of female pelvic organs**

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

**169 Endometriosis**

6170 6171 6172 6173 6174 6175 6176 6178 6179

**170 Prolapse of female genital organs**

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

**171 Menstrual disorders**

6253 6260 6261 6262 6263 6264 6265 6266 6268 6269

**172 Ovarian cyst**

6200 6201 6202

**173 Menopausal disorders**

25631 25639 6270 6271 6272 6273 6274 6278 6279 V074

**174 Female infertility**

6280 6281 6282 6283 6284 6288 6289

**175 Other female genital disorders**

6190 6191 6192 6198 6199 6203 6204 6205 6206 6207 6208 6209  
6210 6211 6212 6213 62130 62131 62132 62133 6214 6215 6216 6217  
6218 6219 6220 6221 62210 62211 62212 6222 6223 6224 6225 6226  
6227 6228 6229 6230 6231 6232 6233 6234 6235 6236 6237 6238  
6239 6240 6241 6242 6243 6244 6245 6246 6248 6249 6250 6251  
6252 6254 6255 6256 6258 6259 6267 6290 6291 62920 62921 62922  
62923 6298 6299 79500 79501 79502 79503 79504 79505 79508 79509 V132  
V1321 V1329 V557 V723

**176 Contraceptive and procreative management**

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

**177 Spontaneous abortion**

63400 63401 63402 63410 63411 63412 63420 63421 63422 63430 63431 63432  
63440 63441 63442 63450 63451 63452 63460 63461 63462 63470 63471 63472  
63480 63481 63482 63490 63491 63492

**178 Induced abortion**

63500 63501 63502 63510 63511 63512 63520 63521 63522 63530 63531 63532  
63540 63541 63542 63550 63551 63552 63560 63561 63562 63570 63571 63572  
63580 63581 63582 63590 63591 63592 63600 63601 63602 63610 63611 63612  
63620 63621 63622 63630 63631 63632 63640 63641 63642 63650 63651 63652  
63660 63661 63662 63670 63671 63672 63680 63681 63682 63690 63691 63692  
63700 63701 63702 63710 63711 63712 63720 63721 63722 63730 63731 63732  
63740 63741 63742 63750 63751 63752 63760 63761 63762 63770 63771 63772  
63780 63781 63782 63790 63791 63792 6380 6381 6382 6383 6384 6385  
6386 6387 6388 6389

**179 Postabortion complications**

6390 6391 6392 6393 6394 6395 6396 6398 6399

**180 Ectopic pregnancy**

6330 63300 63301 6331 63310 63311 6332 63320 63321 6338 63380 63381  
6339 63390 63391

**181 Other complications of pregnancy**

630 631 632 64300 64301 64303 64310 64311 64313 64320 64321 64323  
64380 64381 64383 64390 64391 64393 64600 64601 64603 64610 64611 64612  
64613 64614 64620 64621 64622 64623 64624 64630 64631 64633 64640 64641  
64642 64643 64644 64650 64651 64652 64653 64654 64660 64661 64662 64663  
64664 64670 64671 64673 64680 64681 64682 64683 64684 64690 64691 64693  
64700 64701 64702 64703 64704 64710 64711 64712 64713 64714 64720 64721  
64722 64723 64724 64730 64731 64732 64733 64734 64740 64741 64742 64743  
64744 64750 64751 64752 64753 64754 64760 64761 64762 64763 64764 64780  
64781 64782 64783 64784 64790 64791 64792 64793 64794 64810 64811 64812  
64813 64814 64820 64821 64822 64823 64824 64830 64831 64832 64833 64834  
64840 64841 64842 64843 64844 64850 64851 64852 64853 64854 64860 64861  
64862 64863 64864 64870 64871 64872 64873 64874 64890 64891 64892 64893  
64894

**182 Hemorrhage during pregnancy; abruptio placenta; placenta previa**

64000 64001 64003 64080 64081 64083 64090 64091 64093 64100 64101 64103  
64110 64111 64113 64120 64121 64123 64130 64131 64133 64180 64181 64183  
64190 64191 64193

**183 Hypertension complicating pregnancy; childbirth and the puerperium**

64200 64201 64202 64203 64204 64210 64211 64212 64213 64214 64220 64221  
64222 64223 64224 64230 64231 64232 64233 64234 64240 64241 64242 64243  
64244 64250 64251 64252 64253 64254 64260 64261 64262 64263 64264 64270  
64271 64272 64273 64274 64290 64291 64292 64293 64294

**184 Early or threatened labor**

64400 64403 64410 64413 64420 64421

**185 Prolonged pregnancy**

64500 64501 64503 64510 64511 64513 64520 64521 64523

**186 Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium**

64800 64801 64802 64803 64804 64880 64881 64882 64883 64884

**187 Malposition; malpresentation**

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

**188 Fetopelvic disproportion; obstruction**

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

**189 Previous C-section**

65420 65421 65423

**190 Fetal distress and abnormal forces of labor**

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

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

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

**192 Umbilical cord complication**

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

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

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

**194 Forceps delivery**

66950 66951

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

65103	65113	65123	65130	65131	65133	65140	65141	65143	65150	65151	65153
65160	65161	65163	65183	65193	65400	65401	65402	65403	65404	65410	65411
65412	65413	65414	65430	65431	65432	65433	65434	65440	65441	65442	65443
65444	65450	65451	65452	65453	65454	65460	65461	65462	65463	65464	65470
65471	65472	65473	65474	65480	65481	65482	65483	65484	65490	65491	65492
65493	65494	65500	65501	65503	65510	65511	65513	65520	65521	65523	65530
65531	65533	65540	65541	65543	65550	65551	65553	65560	65561	65563	65570
65571	65573	65580	65581	65583	65590	65591	65593	65600	65601	65603	65610
65611	65613	65620	65621	65623	65640	65641	65643	65650	65651	65653	65660
65661	65663	65670	65671	65673	65680	65681	65683	65690	65691	65693	65900
65901	65903	65910	65911	65913	65920	65921	65923	65930	65931	65933	65940
65941	65943	65950	65951	65953	65960	65961	65963	65970	65971	65973	65980
65981	65983	65990	65991	65993	66500	66501	66503	66510	66511	66512	66514
66520	66522	66524	66530	66531	66534	66540	66541	66544	66550	66551	66554
66560	66561	66564	66570	66571	66572	66574	66580	66581	66582	66583	66584
66590	66591	66592	66593	66594	66600	66602	66604	66610	66612	66614	66620
66622	66624	66630	66632	66634	66700	66702	66704	66710	66712	66714	66800
66801	66802	66803	66804	66810	66811	66812	66813	66814	66820	66821	66822
66823	66824	66880	66881	66882	66883	66884	66890	66891	66892	66893	66894
66900	66901	66902	66903	66904	66910	66911	66912	66913	66914	66920	66921
66922	66923	66924	66930	66932	66934	66940	66941	66942	66943	66944	66960
66961	66970	66971	66980	66981	66982	66983	66984	66990	66991	66992	66993
66994	67000	67002	67004	67100	67101	67102	67103	67104	67110	67111	67112
67113	67114	67120	67121	67122	67123	67124	67130	67131	67133	67140	67142
67144	67150	67151	67152	67153	67154	67180	67181	67182	67183	67184	67190
67191	67192	67193	67194	67200	67202	67204	67300	67301	67302	67303	67304
67310	67311	67312	67313	67314	67320	67321	67322	67323	67324	67330	67331
67332	67333	67334	67380	67381	67382	67383	67384	67400	67401	67402	67403
67404	67410	67412	67414	67420	67422	67424	67430	67432	67434	67440	67442
67444	67450	67451	67452	67453	67454	67480	67482	67484	67490	67492	67494
67500	67501	67502	67503	67504	67510	67511	67512	67513	67514	67520	67521
67522	67523	67524	67580	67581	67582	67583	67584	67590	67591	67592	67593
67594	67600	67601	67602	67603	67604	67610	67611	67612	67613	67614	67620
67621	67622	67623	67624	67630	67631	67632	67633	67634	67640	67641	67642
67643	67644	67650	67651	67652	67653	67654	67660	67661	67662	67663	67664
67680	67681	67682	67683	67684	67690	67691	67692	67693	67694	677	V230
V231	V232	V233	V234	V2341	V2349	V235	V237	V238	V2381	V2382	V2383
V2384	V2389	V239									

**196 Normal pregnancy and/or delivery**

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

**197 Skin and subcutaneous tissue infections**

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

**198 Other inflammatory condition of skin**

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

**199 Chronic ulcer of skin**

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

**200 Other skin disorders**

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

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

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

**202 Rheumatoid arthritis and related disease**

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

**221 Respiratory distress syndrome**

769

**222 Hemolytic jaundice and perinatal jaundice**

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

**223 Birth trauma**

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

**224 Other perinatal conditions**

7600 7601 7602 7603 7604 7605 7606 76070 76071 76072 76073 76074  
76075 76076 76077 76078 76079 7608 7609 7610 7611 7612 7613 7614  
7615 7616 7617 7618 7619 7620 7621 7622 7623 7624 7625 7626  
7627 7628 7629 7630 7631 7632 7633 7634 7635 7636 7637 7638  
76381 76382 76383 76384 76389 7639 7660 7661 7662 76621 76622 7700  
7701 77010 77011 77012 77013 77014 77015 77016 77017 77018 7702 7703  
7704 7705 7706 7707 7708 77081 77082 77083 77084 77085 77086 77089  
7709 7710 7711 7712 7713 7714 7715 7716 7717 7718 77181 77182  
77183 77189 7720 7721 77210 77211 77212 77213 77214 7722 7723 7724  
7725 7726 7728 7729 7750 7751 7752 7753 7754 7755 7756 7757  
7758 7759 7760 7761 7762 7763 7764 7765 7766 7767 7768 7769  
7771 7772 7773 7774 7775 7776 7778 7779 7780 7781 7782 7783  
7784 7785 7786 7787 7788 7789 7790 7791 7792 7793 7794 7795  
7796 7797 7798 77981 77982 77983 77989 7799 78091 78092 V137 V502

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

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

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

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

**227 Spinal cord injury**

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

**228 Skull and face fractures**

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

**229 Fracture of upper limb**

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

**230 Fracture of lower limb**

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

**231 Other fractures**

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

**232 Sprains and strains**

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

**233 Intracranial injury**

80010	80011	80012	80013	80014	80015	80016	80019	80020	80021	80022	80023
80024	80025	80026	80029	80030	80031	80032	80033	80034	80035	80036	80039
80040	80041	80042	80043	80044	80045	80046	80049	80060	80061	80062	80063
80064	80065	80066	80069	80070	80071	80072	80073	80074	80075	80076	80079
80080	80081	80082	80083	80084	80085	80086	80089	80090	80091	80092	80093
80094	80095	80096	80099	80110	80111	80112	80113	80114	80115	80116	80119
80120	80121	80122	80123	80124	80125	80126	80129	80130	80131	80132	80133
80134	80135	80136	80139	80140	80141	80142	80143	80144	80145	80146	80149
80160	80161	80162	80163	80164	80165	80166	80169	80170	80171	80172	80173
80174	80175	80176	80179	80180	80181	80182	80183	80184	80185	80186	80189
80190	80191	80192	80193	80194	80195	80196	80199	80310	80311	80312	80313
80314	80315	80316	80319	80320	80321	80322	80323	80324	80325	80326	80329
80330	80331	80332	80333	80334	80335	80336	80339	80340	80341	80342	80343
80344	80345	80346	80349	80360	80361	80362	80363	80364	80365	80366	80369
80370	80371	80372	80373	80374	80375	80376	80379	80380	80381	80382	80383
80384	80385	80386	80389	80390	80391	80392	80393	80394	80395	80396	80399
80410	80411	80412	80413	80414	80415	80416	80419	80420	80421	80422	80423
80424	80425	80426	80429	80430	80431	80432	80433	80434	80435	80436	80439
80440	80441	80442	80443	80444	80445	80446	80449	80460	80461	80462	80463
80464	80465	80466	80469	80470	80471	80472	80473	80474	80475	80476	80479
80480	80481	80482	80483	80484	80485	80486	80489	80490	80491	80492	80493
80494	80495	80496	80499	8500	8501	85011	85012	8502	8503	8504	8505
8509	85100	85101	85102	85103	85104	85105	85106	85109	85110	85111	85112
85113	85114	85115	85116	85119	85120	85121	85122	85123	85124	85125	85126
85129	85130	85131	85132	85133	85134	85135	85136	85139	85140	85141	85142
85143	85144	85145	85146	85149	85150	85151	85152	85153	85154	85155	85156
85159	85160	85161	85162	85163	85164	85165	85166	85169	85170	85171	85172
85173	85174	85175	85176	85179	85180	85181	85182	85183	85184	85185	85186
85189	85190	85191	85192	85193	85194	85195	85196	85199	85200	85201	85202
85203	85204	85205	85206	85209	85210	85211	85212	85213	85214	85215	85216
85219	85220	85221	85222	85223	85224	85225	85226	85229	85230	85231	85232
85233	85234	85235	85236	85239	85240	85241	85242	85243	85244	85245	85246
85249	85250	85251	85252	85253	85254	85255	85256	85259	85300	85301	85302
85303	85304	85305	85306	85309	85310	85311	85312	85313	85314	85315	85316
85319	85400	85401	85402	85403	85404	85405	85406	85409	85410	85411	85412
85413	85414	85415	85416	85419	9070						

**234 Crushing injury or internal injury**

8600	8601	8602	8603	8604	8605	86100	86101	86102	86103	86110	86111
86112	86113	86120	86121	86122	86130	86131	86132	8620	8621	86221	86222
86229	86231	86232	86239	8628	8629	8630	8631	86320	86321	86329	86330
86331	86339	86340	86341	86342	86343	86344	86345	86346	86349	86350	86351
86352	86353	86354	86355	86356	86359	86380	86381	86382	86383	86384	86385
86389	86390	86391	86392	86393	86394	86395	86399	86400	86401	86402	86403
86404	86405	86409	86410	86411	86412	86413	86414	86415	86419	86500	86501
86502	86503	86504	86509	86510	86511	86512	86513	86514	86519	86600	86601
86602	86603	86610	86611	86612	86613	8670	8671	8672	8673	8674	8675
8676	8677	8678	8679	86800	86801	86802	86803	86804	86809	86810	86811
86812	86813	86814	86819	8690	8691	90000	90001	90002	90003	9001	90081
90082	90089	9009	9010	9011	9012	9013	90140	90141	90142	90181	90182
90183	90189	9019	9020	90210	90211	90219	90220	90221	90222	90223	90224
90225	90226	90227	90229	90231	90232	90233	90234	90239	90240	90241	90242
90249	90250	90251	90252	90253	90254	90255	90256	90259	90281	90282	90287

90289	9029	90300	90301	90302	9031	9032	9033	9034	9035	9038	9039
9040	9041	9042	9043	90440	90441	90442	90450	90451	90452	90453	90454
9046	9047	9048	9049	9064	9080	9081	9082	9083	9084	925	9251
9252	9260	92611	92612	92619	9268	9269	92700	92701	92702	92703	92709
92710	92711	92720	92721	9273	9278	9279	92800	92801	92810	92811	92820
92821	9283	9288	9289	9290	9299						

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

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

**236 Open wounds of extremities**

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

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

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

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

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

**239 Superficial injury; contusion**

9062	9063	9100	9101	9102	9103	9104	9105	9106	9107	9108	9109
9110	9111	9112	9113	9114	9115	9116	9117	9118	9119	9120	9121
9122	9123	9124	9125	9126	9127	9128	9129	9130	9131	9132	9133
9134	9135	9136	9137	9138	9139	9140	9141	9142	9143	9144	9145

9146	9147	9148	9149	9150	9151	9152	9153	9154	9155	9156	9157
9158	9159	9160	9161	9162	9163	9164	9165	9166	9167	9168	9169
9170	9171	9172	9173	9174	9175	9176	9177	9178	9179	9180	9181
9182	9189	9190	9191	9192	9193	9194	9195	9196	9197	9198	9199
920	9210	9211	9212	9213	9219	9220	9221	9222	9223	92231	92232
92233	9224	9228	9229	92300	92301	92302	92303	92309	92310	92311	92320
92321	9233	9238	9239	92400	92401	92410	92411	92420	92421	9243	9244
9245	9248	9249									

**240 Burns**

9065	9066	9067	9068	9069	9400	9401	9402	9403	9404	9405	9409
94100	94101	94102	94103	94104	94105	94106	94107	94108	94109	94110	94111
94112	94113	94114	94115	94116	94117	94118	94119	94120	94121	94122	94123
94124	94125	94126	94127	94128	94129	94130	94131	94132	94133	94134	94135
94136	94137	94138	94139	94140	94141	94142	94143	94144	94145	94146	94147
94148	94149	94150	94151	94152	94153	94154	94155	94156	94157	94158	94159
94200	94201	94202	94203	94204	94205	94209	94210	94211	94212	94213	94214
94215	94219	94220	94221	94222	94223	94224	94225	94229	94230	94231	94232
94233	94234	94235	94239	94240	94241	94242	94243	94244	94245	94249	94250
94251	94252	94253	94254	94255	94259	94300	94301	94302	94303	94304	94305
94306	94309	94310	94311	94312	94313	94314	94315	94316	94319	94320	94321
94322	94323	94324	94325	94326	94329	94330	94331	94332	94333	94334	94335
94336	94339	94340	94341	94342	94343	94344	94345	94346	94349	94350	94351
94352	94353	94354	94355	94356	94359	94400	94401	94402	94403	94404	94405
94406	94407	94408	94410	94411	94412	94413	94414	94415	94416	94417	94418
94420	94421	94422	94423	94424	94425	94426	94427	94428	94430	94431	94432
94433	94434	94435	94436	94437	94438	94440	94441	94442	94443	94444	94445
94446	94447	94448	94450	94451	94452	94453	94454	94455	94456	94457	94458
94500	94501	94502	94503	94504	94505	94506	94509	94510	94511	94512	94513
94514	94515	94516	94519	94520	94521	94522	94523	94524	94525	94526	94529
94530	94531	94532	94533	94534	94535	94536	94539	94540	94541	94542	94543
94544	94545	94546	94549	94550	94551	94552	94553	94554	94555	94556	94559
9460	9461	9462	9463	9464	9465	9470	9471	9472	9473	9474	9478
9479	94800	94810	94811	94820	94821	94822	94830	94831	94832	94833	94840
94841	94842	94843	94844	94850	94851	94852	94853	94854	94855	94860	94861
94862	94863	94864	94865	94866	94870	94871	94872	94873	94874	94875	94876
94877	94880	94881	94882	94883	94884	94885	94886	94887	94888	94890	94891
94892	94893	94894	94895	94896	94897	94898	94899	9490	9491	9492	9493
9494	9495										

**241 Poisoning by psychotropic agents**

9690	9691	9692	9693	9694	9695	9696	9697	9698	9699
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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									
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**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**

31200	31201	31202	31203	31210	31211	31212	31213	31220	31221	31222	31223
3124	3128	31281	31282	31289	3129	31381	31400	31401	3141	3142	3148
3149											

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

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

**654 Developmental disorders**

3070	3079	31531	31539	V401	31501	31502	31509	31532	3155	3158	317
3180	3181	3182	319	31500	3151	3152	3159	V400	3154		

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

3076 3077 3073 30921 31323 31389 3139 29900 29901 29910 29911 29980  
29981 29990 29991 30720 30721 30722 30723

**656 Impulse control disorders, NEC**

31230 31231 31232 31233 31234 31235 31239

**657 Miscellaneous mental disorders**

30012 30013 30014 30015 3006 3071 30750 30751 30752 30753 30754 30759  
30016 30019 29389 2939 3101 316 64840 64841 64842 64843 64844 V402  
V403 V409 V673 3060 3061 3062 3063 3064 30650 30652 30653 30659  
3066 3067 3068 3069 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 30740 30741 30742 30743 30744 30745 30746  
30747 30748 30749 30011 3007 30081 30082 30780 30781 30789

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

**659 Personality disorders**

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

**660 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

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

33392 V110 V111 V112 V118 V119 V154 V1541 V1542 V1549 V1582 V663  
V701 V702 V7101 V7102 V7109 V790 V792 V793 V798 V799 3051 3575  
4255 5353 5710 5711 5712 5713 76071 7903 V113 V791

**662 Substance-related disorders**

2910 2911 2912 2913 2914 2915 2918 29181 29189 2919 30300 30301  
30302 30303 30390 30391 30392 30393 30500 30501 30502 30503 2920 29211  
29212 2922 29281 29282 29283 29284 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

30510	30511	30512	30513	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							

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

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	

**2601 E Codes: Cut/pierce**

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

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

**2603 E Codes: Fall**

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

**2604 E Codes: Fire/burn**

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

**2605 E Codes: Firearm**

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

**2606 E Codes: Machinery**

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

E8100	E8101	E8102	E8103	E8104	E8105	E8106	E8107	E8108	E8109	E8110	E8111
E8112	E8113	E8114	E8115	E8116	E8117	E8118	E8119	E8120	E8121	E8122	E8123
E8124	E8125	E8126	E8127	E8128	E8129	E8130	E8131	E8132	E8133	E8134	E8135
E8136	E8137	E8138	E8139	E8140	E8141	E8142	E8143	E8144	E8145	E8146	E8147
E8148	E8149	E8150	E8151	E8152	E8153	E8154	E8155	E8156	E8157	E8158	E8159
E8160	E8161	E8162	E8163	E8164	E8165	E8166	E8167	E8168	E8169	E8170	E8171

E8172 E8173 E8174 E8175 E8176 E8177 E8178 E8179 E8180 E8181 E8182 E8183  
E8184 E8185 E8186 E8187 E8188 E8189 E8190 E8191 E8192 E8193 E8194 E8195  
E8196 E8197 E8198 E8199 E9585 E9685 E9885

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

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

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

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

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

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

**2611 E Codes: Natural/environment**

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

**2612 E Codes: Overexertion**

E927

**2613 E Codes: Poisoning**

E8500 E8501 E8502 E8503 E8504 E8505 E8506 E8507 E8508 E8509 E851 E8520  
E8521 E8522 E8523 E8524 E8525 E8528 E8529 E8530 E8531 E8532 E8538 E8539  
E8540 E8541 E8542 E8543 E8548 E8550 E8551 E8552 E8553 E8554 E8555 E8556  
E8558 E8559 E856 E857 E8580 E8581 E8582 E8583 E8584 E8585 E8586 E8587  
E8588 E8589 E8600 E8601 E8602 E8603 E8604 E8608 E8609 E8610 E8611 E8612  
E8613 E8614 E8615 E8616 E8619 E8620 E8621 E8622 E8623 E8624 E8629 E8630  
E8631 E8632 E8633 E8634 E8635 E8636 E8637 E8638 E8639 E8640 E8641 E8642

E8643 E8644 E8650 E8651 E8652 E8653 E8654 E8655 E8658 E8659 E8660 E8661  
E8662 E8663 E8664 E8665 E8666 E8667 E8668 E8669 E867 E8680 E8681 E8682  
E8683 E8688 E8689 E8690 E8691 E8692 E8693 E8694 E8698 E8699 E9500 E9501  
E9502 E9503 E9504 E9505 E9506 E9507 E9508 E9509 E9510 E9511 E9518 E9520  
E9521 E9528 E9529 E9620 E9621 E9622 E9629 E972 E9800 E9801 E9802 E9803  
E9804 E9805 E9806 E9807 E9808 E9809 E9810 E9811 E9818 E9820 E9821 E9828  
E9829

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

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

**2615 E Codes: Suffocation**

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

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

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

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

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

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

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

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

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

**2620 E Codes: Unspecified**

E887 E9289 E9299 E9589 E9689 E976 E9889 E9979

**2621 E Codes: Place of occurrence**

E8490 E8491 E8492 E8493 E8494 E8495 E8496 E8497 E8498 E8499

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

1

NOTE: Copyright (c) 1999-2001 by SAS Institute Inc., Cary, NC, USA.  
NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)  
NOTE: This session is executing on the WIN\_PRO platform.

NOTE: This installation is running Base SAS hot fix bundle 82BX09.

NOTE: SAS initialization used:  
real time 3.28 seconds  
cpu time 0.54 seconds

NOTE: AUTOEXEC processing beginning; file is C:\progra~1\sasins~1\sas\v8\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1      OPTIONS LS=132 PS=59;
2
3      TITLE1 "HC-085I";
4      TITLE2 "Sample SAS Job for Example A";
5
6      LIBNAME IN V8 "C:\DATA";
```

NOTE: Libref IN was successfully assigned as follows:  
Engine: V8  
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:  
real time 0.17 seconds  
cpu time 0.00 seconds

24



2

```

25 *-----
26 * Get condition records coded as asthma.
27 *-----;
28 DATA ASCONDS;
29     SET IN.H87 (KEEP=CONDIDX CCCODEX);
30     IF CCCODEX="128";
31
32     RUN;

```

NOTE: There were 106738 observations read from the data set IN.H87.  
NOTE: The data set WORK.ASCONDS has 1835 observations and 2 variables.  
NOTE: DATA statement used:  
real time 1.81 seconds  
cpu time 0.18 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 1835 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCONDS has 1835 observations and 2 variables.  
NOTE: PROCEDURE SORT used:  
real time 0.10 seconds  
cpu time 0.00 seconds

```

38
39 proc print data=asconds (obs=50);
40     title3 "sample print of work.asconds - sorted by condidx";
41     title4 "COND (H87) 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:  
real time 0.46 seconds  
cpu time 0.03 seconds

```

43
44 PROC SORT DATA=IN.H85IF1 OUT=CLNK; BY CONDIDX; RUN;

```

NOTE: There were 348119 observations read from the data set IN.H85IF1.  
NOTE: The data set WORK.CLNK has 348119 observations and 5 variables.  
NOTE: PROCEDURE SORT used:  
real time 18.96 seconds  
cpu time 2.31 seconds

```

45
46 DATA ASCLNKS;
47     MERGE CLNK (IN=INCLNK KEEP=CONDIDX EVNTIDX EVENTTYPE)
48     ASCONDS (IN=INASCOND KEEP=CONDIDX);
49     BY CONDIDX;

```

```
50      IF INCLNK & INASCOND;
51      RUN;
```

```
NOTE: There were 348119 observations read from the data set WORK.CLNK.
NOTE: There were 1835 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7244 observations and 3 variables.
NOTE: DATA statement used:
      real time          1.06 seconds
      cpu time           0.39 seconds
```

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

```
NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed pages 2-3.
NOTE: PROCEDURE PRINT used:
      real time          0.12 seconds
      cpu time           0.03 seconds
```

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

```
NOTE: There were 7244 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7244 observations and 3 variables.
NOTE: PROCEDURE SORT used:
      real time          0.03 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:
      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 7244 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 7225 observations and 2 variables.

NOTE: DATA statement used:

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

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

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

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used:

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

```
78
79   *-----
80   * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
81   *-----;
82   DATA MVIS;
83       SET IN.H85G (KEEP=EVNTIDX PERWT04F SEETLKPV);
84       IF PERWT04F > 0 & SEETLKPV NE 2;
85   RUN;
```

NOTE: There were 157536 observations read from the data set IN.H85G.

NOTE: The data set WORK.MVIS has 152603 observations and 3 variables.

NOTE: DATA statement used:

```
real time      1.71 seconds
cpu time       0.56 seconds
```

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

NOTE: There were 152603 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.MVIS has 152603 observations and 3 variables.

NOTE: PROCEDURE SORT used:

```
real time      0.76 seconds
cpu time       0.70 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 7225 observations read from the data set WORK.ASCLNKS.

NOTE: There were 152603 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.ASMVIS has 2165 observations and 2 variables.

NOTE: DATA statement used:

```
real time      0.90 seconds
cpu time       0.18 seconds
```

```
98
99      proc print data=asmvis (obs=50);
100      format eventype eventype.;
101      title3 "sample print of work.asmvis";
102      title4 "unique evtidxs from work.asclnks that are non-telephone MVIS (HC-085G) 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:

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

```
104
105      *-----
106      * Get PMED IDs linked to the MVIS events which were for asthma.
107      *-----;
108      PROC SORT DATA=IN.H85IF2 OUT=RXLK; BY EVNTIDX; RUN;
```

NOTE: There were 62663 observations read from the data set IN.H85IF2.

NOTE: The data set WORK.RXLK has 62663 observations and 5 variables.

NOTE: PROCEDURE SORT used:

```
real time      0.35 seconds
cpu time       0.35 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-85IF2)";
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:

```
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 62663 observations read from the data set WORK.RXLK.
NOTE: There were 2165 observations read from the data set WORK.ASMVIS.
NOTE: The data set WORK.PMEDIDS has 1978 observations and 3 variables.
NOTE: DATA statement used:
      real time          0.07 seconds
      cpu time           0.07 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.asmviz";
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:
      real time          0.01 seconds
      cpu time           0.00 seconds
```

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

```
NOTE: There were 1978 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.PMEDIDS has 1978 observations and 3 variables.
NOTE: PROCEDURE SORT used:
      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:
      real time          0.01 seconds
      cpu time           0.00 seconds
```

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

NOTE: There were 1978 observations read from the data set WORK.PMEDIDS.  
 NOTE: The data set WORK.PMEDIDS has 1867 observations and 1 variables.  
 NOTE: DATA statement used:  
     real time          0.00 seconds  
     cpu time           0.00 seconds

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

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.  
 NOTE: The PROCEDURE PRINT printed page 15.  
 NOTE: PROCEDURE PRINT used:  
     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.H85A OUT=PMED; BY LINKIDX; RUN;
```

NOTE: There were 317065 observations read from the data set IN.H85A.  
 NOTE: The data set WORK.PMED has 317065 observations and 13 variables.  
 NOTE: PROCEDURE SORT used:  
     real time          47.00 seconds  
     cpu time           4.56 seconds

```
155
156   DATA MVPMEDS;
157       MERGE PMED (KEEP=LINKIDX RXRECIDX RXXP04X PERWT04F RXNAME)
158           PMEDIDS (IN=A);
159       BY LINKIDX;
160       IF A;
161   RUN;
```

NOTE: There were 317065 observations read from the data set WORK.PMED.  
 NOTE: There were 1867 observations read from the data set WORK.PMEDIDS.  
 NOTE: The data set WORK.MVPMEDS has 4945 observations and 5 variables.  
 NOTE: DATA statement used:  
     real time          0.71 seconds  
     cpu time           0.48 seconds

```
162
163   proc print data=mvpmeds (obs=200);
164       var rxrecidx rxname RXXP04X PERWT04F;
165       by linkidx;
166       id linkidx;
167       title3 "sample print of work.mvpmeds";
168       title4 "PMED (HC-085A) 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:

real time	0.01 seconds
cpu time	0.01 seconds

```
170
171 PROC MEANS DATA=MVPMEDS N SUM;
172 VAR RXXP04X;
173 TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";
174 RUN;
```

NOTE: There were 4945 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE MEANS printed page 22.

NOTE: PROCEDURE MEANS used:

real time	0.31 seconds
cpu time	0.01 seconds

```
175
176 PROC MEANS DATA=MVPMEDS N SUM;
177 VAR RXXP04X;
178 WEIGHT PERWT04F;
179 TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";
180 TITLE5 "Weighted";
181 RUN;
```

NOTE: There were 4945 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE MEANS printed page 23.

NOTE: PROCEDURE MEANS used:

real time	0.01 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	1:19.01
cpu time	10.73 seconds

Sample SAS Job for Example A  
 sample print of work.asconds - sorted by condidx  
 COND (H87) records where cccodex=128

Obs	CCCODEX	CONDIDX
1	128	500070130028
2	128	500070200033
3	128	500200110056
4	128	500360140018
5	128	500430190052
6	128	500460100016
7	128	500660410013
8	128	500680120023
9	128	500700150079
10	128	500950250018
11	128	500990170024
12	128	501090310018
13	128	501150120029
14	128	501160150036
15	128	501170360054
16	128	501290180058
17	128	501420340016
18	128	501690160041
19	128	501840550020
20	128	501840620013
21	128	501910540019
22	128	501970350043
23	128	502110120053
24	128	502620440014
25	128	502870280065
26	128	502900180021
27	128	503080270027
28	128	503100450013
29	128	503250380018
30	128	503370280017
31	128	503500310054
32	128	503580110010
33	128	503720160023
34	128	503730590022
35	128	504010100086
36	128	504200240023
37	128	504200480015
38	128	504230270053
39	128	504480460018
40	128	504520190016
41	128	504580270025
42	128	504580270075
43	128	504600560011
44	128	504720230091
45	128	504910450035
46	128	505160200037
47	128	505160500013
48	128	505160670034
49	128	505180190034
50	128	505280110061



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

CONDIDX	EVNTIDX	EVENTYPE
500070130028	500070130256	8 PMED
	500070130263	8 PMED
	500070130410	8 PMED
	500070130427	8 PMED
500070200033	500070200085	8 PMED
	500070200092	8 PMED
	500070200105	8 PMED
500200110056	500200110232	8 PMED
	500200110636	8 PMED
	500200111040	8 PMED
500360140018	500360140029	1 MVIS
	500360140074	8 PMED
	500360140252	8 PMED
	500360140269	8 PMED
	500360140276	8 PMED
	500360140283	8 PMED
	500360140290	8 PMED
	500360140601	8 PMED
	500360140618	8 PMED
	500360140625	8 PMED
500430190052	500430190066	8 PMED
500460100016	500460100012	8 PMED
500660410013	500660410013	1 MVIS
	500660410020	1 MVIS
	500660410037	1 MVIS
	500660410044	8 PMED
	500660410051	8 PMED
	500660410068	8 PMED
	500660410082	8 PMED
500680120023	500680120011	1 MVIS
	500680120035	8 PMED
	500680120042	8 PMED
	500680120059	8 PMED
	500680120117	8 PMED
500680120124	8 PMED	
500700150079	500700150393	8 PMED
	500700150413	1 MVIS
	500700150437	1 MVIS
	500700150622	8 PMED
	500700150660	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
500990170024	500990170063	8 PMED
	500990170169	8 PMED
	500990170176	8 PMED
	500990170183	8 PMED
	500990170272	8 PMED
501090310018	501090310018	1 MVIS
	501090310025	1 MVIS
	501090310032	1 MVIS
	501090310049	1 MVIS
	501090310056	1 MVIS
	501090310063	1 MVIS
	501090310070	1 MVIS
	501090310087	1 MVIS
	501090310176	8 PMED
	501090310183	8 PMED
501150120029	501150120037	8 PMED
	501150120119	1 MVIS
	501150120126	1 MVIS
	501150120133	1 MVIS
	501150120140	1 MVIS
	501150120157	1 MVIS
	501150120164	8 PMED
501160150036	501160150024	1 MVIS
	501160150031	1 MVIS
	501160150048	8 PMED
	501160150079	8 PMED
	501160150144	1 MVIS
	501160150168	8 PMED
	501160150459	8 PMED
	501160150466	8 PMED
501170360054	501170360156	1 MVIS
	501170360170	8 PMED
	501170360214	8 PMED
	501170360221	8 PMED
	501170360238	8 PMED

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

Obs	EVNTIDX	EVENTYPE	CONDIDX
1	500070130256	8 PMED	500070130028
2	500070130263	8 PMED	500070130028
3	500070130410	8 PMED	500070130028
4	500070130427	8 PMED	500070130028
5	500070200085	8 PMED	500070200033
6	500070200092	8 PMED	500070200033
7	500070200105	8 PMED	500070200033
8	500200110232	8 PMED	500200110056
9	500200110636	8 PMED	500200110056
10	500200111040	8 PMED	500200110056
11	500360140029	1 MVIS	500360140018
12	500360140074	8 PMED	500360140018
13	500360140252	8 PMED	500360140018
14	500360140269	8 PMED	500360140018
15	500360140276	8 PMED	500360140018
16	500360140283	8 PMED	500360140018
17	500360140290	8 PMED	500360140018
18	500360140601	8 PMED	500360140018
19	500360140618	8 PMED	500360140018
20	500360140625	8 PMED	500360140018
21	500430190066	8 PMED	500430190052
22	500460100012	8 PMED	500460100016
23	500660410013	1 MVIS	500660410013
24	500660410020	1 MVIS	500660410013
25	500660410037	1 MVIS	500660410013
26	500660410044	8 PMED	500660410013
27	500660410051	8 PMED	500660410013
28	500660410068	8 PMED	500660410013
29	500660410082	8 PMED	500660410013
30	500680120011	1 MVIS	500680120023
31	500680120035	8 PMED	500680120023
32	500680120042	8 PMED	500680120023
33	500680120059	8 PMED	500680120023
34	500680120117	8 PMED	500680120023
35	500680120124	8 PMED	500680120023
36	500700150393	8 PMED	500700150079
37	500700150413	1 MVIS	500700150079
38	500700150437	1 MVIS	500700150079
39	500700150622	8 PMED	500700150079
40	500700150660	8 PMED	500700150079
41	500990170063	8 PMED	500990170024
42	500990170169	8 PMED	500990170024
43	500990170176	8 PMED	500990170024
44	500990170183	8 PMED	500990170024
45	500990170272	8 PMED	500990170024
46	501090310018	1 MVIS	501090310018
47	501090310025	1 MVIS	501090310018
48	501090310032	1 MVIS	501090310018
49	501090310049	1 MVIS	501090310018
50	501090310056	1 MVIS	501090310018

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

Obs	EVNTIDX	EVENTYPE
1	500070130256	8 PMED
2	500070130263	8 PMED
3	500070130410	8 PMED
4	500070130427	8 PMED
5	500070200085	8 PMED
6	500070200092	8 PMED
7	500070200105	8 PMED
8	500200110232	8 PMED
9	500200110636	8 PMED
10	500200111040	8 PMED
11	500360140029	1 MVIS
12	500360140074	8 PMED
13	500360140252	8 PMED
14	500360140269	8 PMED
15	500360140276	8 PMED
16	500360140283	8 PMED
17	500360140290	8 PMED
18	500360140601	8 PMED
19	500360140618	8 PMED
20	500360140625	8 PMED
21	500430190066	8 PMED
22	500460100012	8 PMED
23	500660410013	1 MVIS
24	500660410020	1 MVIS
25	500660410037	1 MVIS
26	500660410044	8 PMED
27	500660410051	8 PMED
28	500660410068	8 PMED
29	500660410082	8 PMED
30	500680120011	1 MVIS
31	500680120035	8 PMED
32	500680120042	8 PMED
33	500680120059	8 PMED
34	500680120117	8 PMED
35	500680120124	8 PMED
36	500700150393	8 PMED
37	500700150413	1 MVIS
38	500700150437	1 MVIS
39	500700150622	8 PMED
40	500700150660	8 PMED
41	500990170063	8 PMED
42	500990170169	8 PMED
43	500990170176	8 PMED
44	500990170183	8 PMED
45	500990170272	8 PMED
46	501090310018	1 MVIS
47	501090310025	1 MVIS
48	501090310032	1 MVIS
49	501090310049	1 MVIS
50	501090310056	1 MVIS

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

unique evtidxs from work.asclinks that are non-telephone MVIS (HC-085G) events

Obs	EVNTIDX	EVENTYPE
1	500360140029	1 MVIS
2	500660410013	1 MVIS
3	500660410020	1 MVIS
4	500660410037	1 MVIS
5	500680120011	1 MVIS
6	500700150413	1 MVIS
7	500700150437	1 MVIS
8	501090310018	1 MVIS
9	501090310025	1 MVIS
10	501090310032	1 MVIS
11	501090310049	1 MVIS
12	501090310056	1 MVIS
13	501090310063	1 MVIS
14	501090310070	1 MVIS
15	501090310087	1 MVIS
16	501150120119	1 MVIS
17	501150120126	1 MVIS
18	501150120133	1 MVIS
19	501150120140	1 MVIS
20	501150120157	1 MVIS
21	501160150024	1 MVIS
22	501160150031	1 MVIS
23	501160150144	1 MVIS
24	501170360156	1 MVIS
25	501290180101	1 MVIS
26	501290180252	1 MVIS
27	501420340022	1 MVIS
28	501420340039	1 MVIS
29	501420340046	1 MVIS
30	501420340053	1 MVIS
31	501420340060	1 MVIS
32	501420340077	1 MVIS
33	501420340084	1 MVIS
34	501420340091	1 MVIS
35	501420340104	1 MVIS
36	501420340111	1 MVIS
37	501420340128	1 MVIS
38	501420340135	1 MVIS
39	501420340142	1 MVIS
40	501420340159	1 MVIS
41	501420340166	1 MVIS
42	501420340173	1 MVIS
43	501420340180	1 MVIS
44	501420340197	1 MVIS
45	501420340231	1 MVIS
46	501420340248	1 MVIS
47	501420340255	1 MVIS
48	501910540017	1 MVIS
49	501970350012	1 MVIS
50	503250380022	1 MVIS

Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evntidx  
 Rx+event link file records (HC-85IF2)

EVNTIDX	LINKIDX	EVENTYPE
500020110010	500020110130	1 MVIS
500020110027	500020110147	1 MVIS
500020110058	500020110154	1 MVIS
500020110065	500020110147	1 MVIS
500020150016	500020150023	1 MVIS
	500020150030	1 MVIS
500020150054	500020150143	1 MVIS
	500020150150	1 MVIS
	500020150167	1 MVIS
500020150085	500020150174	1 MVIS
	500020150181	1 MVIS
500020150105	500020150181	1 MVIS
500020150129	500020150174	1 MVIS
	500020150198	1 MVIS
	500020150201	1 MVIS
500020150225	500020150263	1 MVIS
	500020150270	1 MVIS
	500020150287	1 MVIS
500020150256	500020150307	4 STAZ
	500020150314	4 STAZ
500020150294	500020150321	1 MVIS
500020390016	500020390054	1 MVIS
500020390023	500020390061	1 MVIS
	500020390078	1 MVIS
	500020390085	1 MVIS
500020390129	500020390150	1 MVIS
	500020390167	1 MVIS
500020390143	500020390167	1 MVIS
500020390201	500020390256	1 MVIS
500020390218	500020390256	1 MVIS
500030180016	500030180078	1 MVIS

Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evtidx  
 Rx+event link file records (HC-85IF2)

EVNTIDX	LINKIDX	EVENTYPE
500030180023	500030180085	1 MVIS
500030180061	500030180092	1 MVIS
500030180174	500030180198	1 MVIS
500030180181	500030180201	1 MVIS
500030180287	500030180307	1 MVIS
500030250078	500030250085	1 MVIS
	500030250092	1 MVIS
500050180027	500050180034	1 MVIS
	500050180041	1 MVIS
500060110012	500060110098	1 MVIS
	500060110101	1 MVIS
	500060110118	1 MVIS
	500060110125	1 MVIS
500060110067	500060110132	1 MVIS
500060110245	500060110416	1 MVIS
500070130218	500070130232	1 MVIS
	500070130249	1 MVIS
500070200016	500070200085	1 MVIS
	500070200092	1 MVIS
	500070200105	1 MVIS
500070200078	500070200112	1 MVIS
500080130048	500080130106	1 MVIS
500080130055	500080130113	1 MVIS
500080130079	500080130120	5 DVIS
	500080130137	5 DVIS
500100260034	500100260161	1 MVIS
	500100260178	1 MVIS
	500100260185	1 MVIS
	500100260192	1 MVIS
	500100260205	1 MVIS
	500100260212	1 MVIS
	500100260229	1 MVIS
	500100260236	1 MVIS

Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evntidx  
 Rx+event link file records (HC-85IF2)

EVNTIDX	LINKIDX	EVENTYPE
500100260034	500100260243	1 MVIS
	500100260250	1 MVIS
500110200020	500110200037	3 EROM
500120260111	500120260166	5 DVIS
500130170015	500130170060	5 DVIS
500130170022	500130170060	5 DVIS
500130170077	500130170128	5 DVIS
500130170084	500130170128	5 DVIS
500130170091	500130170128	5 DVIS
500130170111	500130170135	2 OPAT
500130170142	500130170180	5 DVIS
500130170159	500130170180	5 DVIS
500130170173	500130170197	1 MVIS
500130240039	500130240046	1 MVIS
500130240060	500130240084	1 MVIS
500130240077	500130240091	1 MVIS
500140150029	500140150245	1 MVIS
500140150194	500140150252	1 MVIS
500140220012	500140220043	1 MVIS
500140220067	500140220098	1 MVIS
500150220024	500150220048	1 MVIS
500150530024	500150530048	4 STAZ
500190190015	500190190046	1 MVIS
	500190190053	1 MVIS
	500190190060	1 MVIS
500190190022	500190190053	3 EROM
	500190190077	3 EROM



Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evntidx  
 Rx+event link file records (HC-85IF2)

EVNTIDX	LINKIDX	EVENTYPE
500190190022	500190190084	3 EROM
	500190190091	3 EROM
500190190039	500190190046	2 OPAT
	500190190053	2 OPAT
	500190190084	2 OPAT
500190190104	500190190111	1 MVIS
	500190190128	1 MVIS
500190260015	500190260022	1 MVIS
500190260053	500190260060	1 MVIS
	500190260077	1 MVIS
	500190260084	1 MVIS
500190330022	500190330039	1 MVIS
500190400022	500190400039	1 MVIS
	500190400046	1 MVIS
500190590020	500190590044	1 MVIS
500190590037	500190590051	1 MVIS
	500190590068	1 MVIS
	500190590075	1 MVIS
500190590082	500190590126	1 MVIS
	500190590133	1 MVIS
	500190590140	1 MVIS
500190590099	500190590140	1 MVIS
500200110085	500200110136	4 STAZ
500200110294	500200110530	4 STAZ
500240160045	500240160069	1 MVIS
	500240160076	1 MVIS
500240300038	500240300052	3 EROM
500250270018	500250270025	1 MVIS
500250270032	500250270114	1 MVIS
	500250270121	1 MVIS
500260320018	500260320049	1 MVIS

Sample SAS Job for Example A  
 sample print of work.rxlk - sorted by evntidx  
 Rx+event link file records (HC-85IF2)

EVNTIDX	LINKIDX	EVENTYPE
500290130019	500290130146	1 MVIS
	500290130153	1 MVIS
	500290130160	1 MVIS
	500290130177	1 MVIS
	500290130184	1 MVIS
500290130191	500290130437	1 MVIS
500290130300	500290130444	1 MVIS
500290200019	500290200095	1 MVIS
	500290200108	1 MVIS
	500290200115	1 MVIS
500290200122	500290200153	1 MVIS
	500290200160	1 MVIS
500290200139	500290200177	1 MVIS
500300170013	500300170037	1 MVIS
500300240013	500300240068	1 MVIS
500330220025	500330220049	1 MVIS
500330460018	500330460032	3 EROM
	500330460049	3 EROM

Sample SAS Job for Example A  
 sample print of work.pmedids - sorted by evtidx  
 work.rx1k records for evtidxs in work.asmvis

EVNTIDX	EVENTYPE	LINKIDX
500360140029	1 MVIS	500360140074
500660410013	1 MVIS	500660410044
500660410037	1 MVIS	500660410051
500680120011	1 MVIS	500680120028
500700150413	1 MVIS	500700150622
501170360156	1 MVIS 1 MVIS	501170360170 501170360207
501910540017	1 MVIS	501910540024
501970350012	1 MVIS	501970350043
503250380022	1 MVIS 1 MVIS	503250380046 503250380053
504480460070	1 MVIS	504480460114
504480460087	1 MVIS 1 MVIS	504480460121 504480460138
504480460183	1 MVIS 1 MVIS	504480460265 504480460272
504480460296	1 MVIS 1 MVIS	504480460354 504480460361
504480460347	1 MVIS 1 MVIS	504480460378 504480460392
504520190012	1 MVIS 1 MVIS	504520190029 504520190036
504580270179	1 MVIS 1 MVIS 1 MVIS 1 MVIS 1 MVIS	504580270186 504580270193 504580270206 504580270213 504580270220
504600560019	1 MVIS	504600560026
505160200019	1 MVIS	505160200040
505160500065	1 MVIS 1 MVIS	505160500096 505160500109

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

EVNTIDX	EVENTYPE	LINKIDX
505160500065	1 MVIS	505160500116
	1 MVIS	505160500123
505160670096	1 MVIS	505160670123
	1 MVIS	505160670130
	1 MVIS	505160670147
505460330017	1 MVIS	505460330024
506250260669	1 MVIS	506250260690
	1 MVIS	506250260703
506310290013	1 MVIS	506310290075
506310290455	1 MVIS	506310290462
506350380042	1 MVIS	506350380066
	1 MVIS	506350380073
	1 MVIS	506350380080
	1 MVIS	506350380097
	1 MVIS	506350380100
506350750012	1 MVIS	506350750036
	1 MVIS	506350750043
506350750050	1 MVIS	506350750074
	1 MVIS	506350750081

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

Obs	EVNTIDX	EVENTYPE	LINKIDX
1	500360140029	1 MVIS	500360140074
2	500660410013	1 MVIS	500660410044
3	500660410037	1 MVIS	500660410051
4	500680120011	1 MVIS	500680120028
5	500700150413	1 MVIS	500700150622
6	501170360156	1 MVIS	501170360170
7	501170360156	1 MVIS	501170360207
8	501910540017	1 MVIS	501910540024
9	501970350012	1 MVIS	501970350043
10	503250380022	1 MVIS	503250380046
11	503250380022	1 MVIS	503250380053
12	504480460070	1 MVIS	504480460114
13	504480460087	1 MVIS	504480460121
14	504480460087	1 MVIS	504480460138
15	504480460183	1 MVIS	504480460265
16	504480460183	1 MVIS	504480460272
17	504480460296	1 MVIS	504480460354
18	504480460296	1 MVIS	504480460361
19	504480460347	1 MVIS	504480460378
20	504480460347	1 MVIS	504480460392
21	504520190012	1 MVIS	504520190029
22	504520190012	1 MVIS	504520190036
23	504580270179	1 MVIS	504580270186
24	504580270179	1 MVIS	504580270193
25	504580270179	1 MVIS	504580270206
26	504580270179	1 MVIS	504580270213
27	504580270179	1 MVIS	504580270220
28	504600560019	1 MVIS	504600560026
29	505160200019	1 MVIS	505160200040
30	505160500065	1 MVIS	505160500096
31	505160500065	1 MVIS	505160500109
32	505160500065	1 MVIS	505160500116
33	505160500065	1 MVIS	505160500123
34	505160670096	1 MVIS	505160670123
35	505160670096	1 MVIS	505160670130
36	505160670096	1 MVIS	505160670147
37	505460330017	1 MVIS	505460330024
38	506250260669	1 MVIS	506250260690
39	506250260669	1 MVIS	506250260703
40	506310290013	1 MVIS	506310290075
41	506310290455	1 MVIS	506310290462
42	506350380042	1 MVIS	506350380066
43	506350380042	1 MVIS	506350380073
44	506350380042	1 MVIS	506350380080
45	506350380042	1 MVIS	506350380097
46	506350380042	1 MVIS	506350380100
47	506350750012	1 MVIS	506350750036
48	506350750012	1 MVIS	506350750043
49	506350750050	1 MVIS	506350750074
50	506350750050	1 MVIS	506350750081

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

Obs	LINKIDX
1	500360140074
2	500660410044
3	500660410051
4	500680120028
5	500700150622
6	501170360170
7	501170360207
8	501910540024
9	501970350043
10	503250380046
11	503250380053
12	504480460114
13	504480460121
14	504480460138
15	504480460265
16	504480460272
17	504480460354
18	504480460361
19	504480460378
20	504480460392
21	504520190029
22	504520190036
23	504580270186
24	504580270193
25	504580270206
26	504580270213
27	504580270220
28	504600560026
29	505160200040
30	505160500096
31	505160500109
32	505160500116
33	505160500123
34	505160670123
35	505160670130
36	505160670147
37	505460330024
38	506250260690
39	506250260703
40	506310290075
41	506310290462
42	506350380066
43	506350380073
44	506350380080
45	506350380097
46	506350380100
47	506350750036
48	506350750043
49	506350750074
50	506350750081

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

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
500360140074	500360140074001	ALBUTEROL	29.79	18145.547255
500660410044	500660410044001	TRIPROLIDINE/PSEUDOEPHEDRINE	2.34	1746.779809
500660410051	500660410051001	ALBUTEROL	5.71	1746.779809
500680120028	500680120028001	FLONASE	71.68	10088.578356
500700150622	500700150622001	PREDNISONE	9.99	13075.037223
501170360170	501170360170001	ALBUTEROL	17.32	5454.071837
	501170360170002	ALBUTEROL	17.32	5454.071837
	501170360170003	ALBUTEROL	17.32	5454.071837
501170360207	501170360207001	ZYRTEC	59.40	5454.071837
501910540024	501910540024001	ALBUTEROL	20.50	2697.068823
	501910540024002	ALBUTEROL	20.50	2697.068823
	501910540024003	ALBUTEROL	20.50	2697.068823
501970350043	501970350043001	ALLEGRA-D	29.70	2370.738304
503250380046	503250380046001	FLOVENT	59.14	4859.543960
503250380053	503250380053001	ALBUTEROL	9.70	4859.543960
504480460114	504480460114001	ORAPRED	11.53	23796.692200
504480460121	504480460121001	FLOVENT	41.02	23796.692200
	504480460121002	FLOVENT	58.72	23796.692200
504480460138	504480460138001	NASACORT AQ	65.35	23796.692200
	504480460138002	NASACORT AQ	31.76	23796.692200
504480460265	504480460265001	FLOVENT	43.72	23796.692200
	504480460265002	FLOVENT	43.72	23796.692200
504480460272	504480460272001	NASACORT AQ	31.76	23796.692200
	504480460272002	NASACORT AQ	35.35	23796.692200
504480460354	504480460354001	PREDNISONE	3.46	23796.692200
504480460361	504480460361001	AMOXIL (BUBBLEGUM)	6.55	23796.692200
504480460378	504480460378001	FLOVENT	41.02	23796.692200
504480460392	504480460392001	ALBUTEROL	11.43	23796.692200
504520190029	504520190029001	ALBUTEROL	29.79	4720.030822

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

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
504520190036	504520190036001	ALLEGRA-D	89.49	4720.030822
504580270186	504580270186001	ADVAIR	2.72	6698.424396
	504580270186002	ADVAIR	2.72	6698.424396
	504580270186003	ADVAIR	2.72	6698.424396
504580270193	504580270193001	ZYRTEC	158.85	6698.424396
	504580270193002	ZYRTEC	158.85	6698.424396
	504580270193003	ZYRTEC	158.85	6698.424396
504580270206	504580270206001	RHINOCORT AQUA	74.84	6698.424396
	504580270206002	RHINOCORT AQUA	74.84	6698.424396
	504580270206003	RHINOCORT AQUA	74.84	6698.424396
504580270213	504580270213001	ZITHROMAX Z-PAK	49.43	6698.424396
504580270220	504580270220001	ALBUTEROL	10.14	6698.424396
504600560026	504600560026001	AVALIDE	54.55	4836.513225
505160200040	505160200040001	ENALAPRIL	61.27	1743.606923
505160500096	505160500096001	FORADIL AEROLIZER (10X6)	85.52	2219.999712
	505160500096002	FORADIL AEROLIZER (10X6)	85.52	2219.999712
	505160500096003	FORADIL AEROLIZER (10X6)	85.52	2219.999712
	505160500096004	FORADIL AEROLIZER (10X6)	85.52	2219.999712
	505160500096005	FORADIL AEROLIZER (10X6)	85.52	2219.999712
505160500109	505160500109001	CLARITIN	32.38	2219.999712
	505160500109002	CLARITIN	32.38	2219.999712
	505160500109003	CLARITIN	32.38	2219.999712
	505160500109004	CLARITIN	32.38	2219.999712
	505160500109005	CLARITIN	32.38	2219.999712
505160500116	505160500116001	SINGULAIR (UNIT OF USE)	90.54	2219.999712
	505160500116002	SINGULAIR (UNIT OF USE)	90.54	2219.999712
	505160500116003	SINGULAIR (UNIT OF USE)	90.54	2219.999712
	505160500116004	SINGULAIR (UNIT OF USE)	90.54	2219.999712
	505160500116005	SINGULAIR (UNIT OF USE)	90.54	2219.999712
505160500123	505160500123001	FLOVENT	60.33	2219.999712
	505160500123002	FLOVENT	60.33	2219.999712
	505160500123003	FLOVENT	60.33	2219.999712
	505160500123004	FLOVENT	60.33	2219.999712
	505160500123005	FLOVENT	60.33	2219.999712
505160670123	505160670123001	PULMICORT RESPULES (5X6)	262.19	1585.083960
	505160670123002	PULMICORT RESPULES (5X6)	262.19	1585.083960
	505160670123003	PULMICORT RESPULES (5X6)	262.19	1585.083960



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

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
505160670123	505160670123004	PULMICORT RESPULES (5X6)	237.77	1585.083960
	505160670123005	PULMICORT RESPULES (5X6)	246.86	1585.083960
505160670130	505160670130001	SINGULAIR (UNIT OF USE)	81.85	1585.083960
	505160670130002	SINGULAIR (UNIT OF USE)	81.85	1585.083960
	505160670130003	SINGULAIR (UNIT OF USE)	81.85	1585.083960
	505160670130004	SINGULAIR (UNIT OF USE)	81.85	1585.083960
	505160670130005	SINGULAIR (UNIT OF USE)	81.85	1585.083960
505160670147	505160670147001	CLARITIN	32.38	1585.083960
	505160670147002	CLARITIN	32.38	1585.083960
	505160670147003	CLARITIN	32.38	1585.083960
	505160670147004	CLARITIN	32.38	1585.083960
	505160670147005	CLARITIN	32.38	1585.083960
505460330024	505460330024001	ALBUTEROL	21.41	1194.723502
	505460330024002	ALBUTEROL	21.41	1194.723502
506250260690	506250260690001	ALBUTEROL	155.70	7142.252547
506250260703	506250260703001	AZMACORT	88.15	7142.252547
506310290075	506310290075001	PULMICORT	261.29	2414.143569
506310290462	506310290462001	ADVAIR DISKUS	171.41	2414.143569
506350380066	506350380066001	ALBUTEROL	21.41	17226.408358
	506350380066002	ALBUTEROL	21.41	17226.408358
506350380073	506350380073001	ADVAIR DISKUS 100/50	114.38	17226.408358
506350380080	506350380080001	ALLEGRA (FILM-COATED)	22.02	17226.408358
	506350380080002	ALLEGRA (FILM-COATED)	22.02	17226.408358
506350380097	506350380097001	ELIDEL	50.83	17226.408358
506350380100	506350380100001	FLONASE	66.70	17226.408358
506350750036	506350750036001	ALBUTEROL	21.41	11826.856420
	506350750036002	ALBUTEROL	21.41	11826.856420
506350750043	506350750043001	ZITHROMAX	47.99	11826.856420
506350750074	506350750074001	ALBUTEROL	24.99	11826.856420
506350750081	506350750081001	ZITHROMAX	61.31	11826.856420
	506350750081002	ZITHROMAX	61.31	11826.856420
506350750098	506350750098001	SINGULAIR	90.54	11826.856420

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

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
506350750098	506350750098002	SINGULAIR	90.54	11826.856420
506450470038	506450470038001	SINGULAIR	81.85	4787.331871
	506450470038002	SINGULAIR	81.85	4787.331871
	506450470038003	SINGULAIR	81.85	4787.331871
	506450470038004	SINGULAIR	81.85	4787.331871
	506450470038005	SINGULAIR	81.85	4787.331871
506600190237	506600190237001	WARFARIN SODIUM	24.76	11149.008735
506600190244	506600190244001	AVANDIA	118.78	11149.008735
506600190251	506600190251001	LISINOPRIL	7.32	11149.008735
506600190268	506600190268001	SINGULAIR	33.65	11149.008735
506600190275	506600190275001	LIPITOR	68.42	11149.008735
506860150074	506860150074001	ADVAIR DISKUS 250/50	139.36	14580.339502
	506860150074002	ADVAIR DISKUS 250/50	139.36	14580.339502
506860150081	506860150081001	ALBUTEROL	30.90	14580.339502
506860150098	506860150098001	PREDNISON	4.01	14580.339502
	506860150098002	PREDNISON	4.01	14580.339502
	506860150098003	PREDNISON	4.01	14580.339502
	506860150098004	PREDNISON	4.01	14580.339502
	506860150098005	PREDNISON	4.01	14580.339502
506870150727	506870150727001	ADVAIR DISKUS 250/50	271.89	2542.936632
506870150734	506870150734001	SPIRIVA (W/HANDIHALER)	120.00	2542.936632
506870151080	506870151080001	ALBUTEROL	18.90	2542.936632
	506870151080002	ALBUTEROL	18.90	2542.936632
	506870151080003	ALBUTEROL	18.90	2542.936632
	506870151080004	ALBUTEROL	18.90	2542.936632
	506870151080005	ALBUTEROL	18.90	2542.936632
	506870151080006	ALBUTEROL	18.90	2542.936632
506870151097	506870151097001	THEOPHYLLINE	17.67	2542.936632
	506870151097002	THEOPHYLLINE	16.03	2542.936632
	506870151097003	THEOPHYLLINE	17.67	2542.936632
	506870151097004	THEOPHYLLINE	17.67	2542.936632
	506870151097005	THEOPHYLLINE	16.03	2542.936632
	506870151097006	THEOPHYLLINE	20.86	2542.936632
	506870151097007	THEOPHYLLINE	20.86	2542.936632
506870151100	506870151100001	ALBUTEROL	19.51	2542.936632

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

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
506870151100	506870151100002	ALBUTEROL	19.51	2542.936632
	506870151100003	ALBUTEROL	19.51	2542.936632
	506870151100004	ALBUTEROL	13.35	2542.936632
	506870151100005	ALBUTEROL	13.35	2542.936632
	506870151100006	ALBUTEROL	13.35	2542.936632
	506870151100007	ALBUTEROL	19.51	2542.936632
	506870151117	506870151117001	FUROSEMIDE	6.31
506870151117002		FUROSEMIDE	6.31	2542.936632
506870151117003		FUROSEMIDE	6.31	2542.936632
506870151117004		FUROSEMIDE	6.31	2542.936632
506870151117005		FUROSEMIDE	6.31	2542.936632
506870151117006		FUROSEMIDE	6.31	2542.936632
506870151117007		FUROSEMIDE	6.31	2542.936632
506870151124	506870151124001	SPIRIVA (W/HANDIHALER)	120.00	2542.936632
	506870151124002	SPIRIVA (W/HANDIHALER)	120.00	2542.936632
	506870151124003	SPIRIVA (W/HANDIHALER)	120.00	2542.936632
	506870151124004	SPIRIVA (W/HANDIHALER)	120.00	2542.936632
	506870151124005	SPIRIVA (W/HANDIHALER)	120.00	2542.936632
507680400105	507680400105001	ORAPRED (DYE-FREE, GRAPE)	45.17	1847.389592
	507680400105002	ORAPRED (DYE-FREE, GRAPE)	31.90	1847.389592
507680400129	507680400129001	ALBUTEROL SULFATE (PF)	14.57	1847.389592
508200140013	508200140013001	FLOVENT	66.74	6686.895596
508200140020	508200140020001	FORADIL AEROLIZER (BLISTER PACK,10X6)	83.15	6686.895596
509070180042	509070180042001	ALBUTEROL	19.20	12945.051075
509070180059	509070180059001	IPRATROPIUM BROMIDE	7.00	12945.051075
509250240180	509250240180001	ADVAIR	22.85	14875.543284
	509250240180002	ADVAIR	22.85	14875.543284
	509250240180003	ADVAIR	22.85	14875.543284
510780110039	510780110039001	PREDNISONE	10.20	4063.251901
510780110522	510780110522001	TRIAMTERENE/HCTZ	10.11	4063.251901
	510780110522002	TRIAMTERENE/HCTZ	10.11	4063.251901
510780110539	510780110539001	SEREVENT DISKUS	46.81	4063.251901
	510780110539002	SEREVENT DISKUS	48.12	4063.251901
	510780110539003	SEREVENT DISKUS	46.81	4063.251901
	510780110539004	SEREVENT DISKUS	48.12	4063.251901
510780110546	510780110546001	ASTELIN	31.35	4063.251901

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

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
510780110553	510780110553001	ESTRACE	34.19	4063.251901
510780110560	510780110560001	ACIPHEX	188.79	4063.251901
	510780110560002	ACIPHEX	188.79	4063.251901
	510780110560003	ACIPHEX	188.79	4063.251901
	510780110560004	ACIPHEX	188.79	4063.251901
510780110577	510780110577001	STORE CALCIUM	3.49	4063.251901
510780110584	510780110584001	WELCHOL	33.50	4063.251901
	510780110584002	WELCHOL	33.50	4063.251901
	510780110584003	WELCHOL	33.50	4063.251901
	510780110584004	WELCHOL	33.50	4063.251901
510780110591	510780110591001	STORE IRON	4.06	4063.251901
510780110604	510780110604001	TYLENOL	2.99	4063.251901
510780110611	510780110611001	LEVOTHYROXINE SODIUM	7.46	4063.251901
	510780110611002	LEVOTHYROXINE SODIUM	7.46	4063.251901
	510780110611003	LEVOTHYROXINE SODIUM	7.46	4063.251901
510900200176	510900200176001	ADVAIR	114.66	16486.283663
510900200183	510900200183001	OGESTREL-28 (3X28)	33.81	16486.283663
	510900200183002	OGESTREL-28 (3X28)	33.81	16486.283663
	510900200183003	OGESTREL-28 (3X28)	33.81	16486.283663
	510900200183004	OGESTREL-28 (3X28)	33.81	16486.283663
510900200190	510900200190001	ALBUTEROL	19.50	16486.283663
511120700030	511120700030001	FLOVENT	57.09	1754.764178
	511120700030002	FLOVENT	57.09	1754.764178
511120700047	511120700047001	SINGULAIR	84.19	1754.764178
	511120700047002	SINGULAIR	84.19	1754.764178
511120700054	511120700054001	ALBUTEROL	10.78	1754.764178
	511120700054002	ALBUTEROL	10.78	1754.764178
511280130123	511280130123001	NORVASC	72.89	7821.827981
	511280130123002	NORVASC	72.89	7821.827981
	511280130123003	NORVASC	72.89	7821.827981
511280130130	511280130130001	METOPROLOL	35.98	7821.827981

Sample SAS Job for Example A

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

The MEANS Procedure

Analysis Variable : RXXP04X SUM OF PAYMENTS RXSF04X-RXOU04X(IMPUTED)

N	Sum
4945	304956.43

Sample SAS Job for Example A

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

Weighted

The MEANS Procedure

Analysis Variable : RXXP04X SUM OF PAYMENTS RXSF04X-RXOU04X(IMPUTED)

N	Sum
4945	2470593127

1

NOTE: Copyright (c) 1999-2001 by SAS Institute Inc., Cary, NC, USA.  
NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)  
NOTE: This session is executing on the WIN\_PRO platform.

NOTE: This installation is running Base SAS hot fix bundle 82BX09.

NOTE: SAS initialization used:  
real time 2.31 seconds  
cpu time 0.39 seconds

NOTE: AUTOEXEC processing beginning; file is C:\progra~1\sasins~1\sas\v8\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1      OPTIONS LS=132 PS=59;
2
3      TITLE1 "HC-085I";
4      TITLE2 "Sample SAS Job for Example B";
5
6      LIBNAME IN "C:\data";
```

NOTE: Libref IN was successfully assigned as follows:  
Engine: V8  
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:  
real time 0.10 seconds  
cpu time 0.01 seconds

```
22
23     *-----
24     * Get condition records coded as asthma.
```

2

```
25 *-----;
26 DATA ASCONDS;
27     SET IN.H87 (KEEP=CONDIDX CCCODEX);
28     IF CCCODEX="128";
29     RUN;
```

NOTE: There were 106738 observations read from the data set IN.H87.  
NOTE: The data set WORK.ASCONDS has 1835 observations and 2 variables.  
NOTE: DATA statement used:  
real time 1.35 seconds  
cpu time 0.20 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 1835 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCONDS has 1835 observations and 2 variables.  
NOTE: PROCEDURE SORT used:  
real time 0.06 seconds  
cpu time 0.03 seconds

```
35
36 proc print data=asconds (obs=50);
37     title3 "sample print of work.asconds - sorted by condidx";
38     title4 "COND (H87) 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:  
real time 0.21 seconds  
cpu time 0.03 seconds

```
40
41 PROC SORT DATA=IN.H85IF1 OUT=CLNK; BY CONDIDX; RUN;
```

NOTE: There were 348119 observations read from the data set IN.H85IF1.  
NOTE: The data set WORK.CLNK has 348119 observations and 5 variables.  
NOTE: PROCEDURE SORT used:  
real time 23.37 seconds  
cpu time 2.67 seconds

```
42
43 DATA ASCLNK;
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 348119 observations read from the data set WORK.CLNK.  
NOTE: There were 1835 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCLNKS has 7244 observations and 3 variables.  
NOTE: DATA statement used:  
real time 3.17 seconds  
cpu time 0.37 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:  
real time 0.07 seconds  
cpu time 0.00 seconds

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

NOTE: There were 7244 observations read from the data set WORK.ASCLNKS.  
NOTE: The data set WORK.ASCLNKS has 7244 observations and 3 variables.  
NOTE: PROCEDURE SORT used:  
real time 0.03 seconds  
cpu time 0.01 seconds

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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.  
NOTE: The PROCEDURE PRINT printed page 4.  
NOTE: PROCEDURE PRINT used:  
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 7244 observations read from the data set WORK.ASCLNKS.  
NOTE: The data set WORK.ASCLNKS has 7225 observations and 2 variables.  
NOTE: DATA statement used:

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

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

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

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used:

```
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.H85A OUT=PMED; BY LINKIDX; RUN;
```

NOTE: There were 317065 observations read from the data set IN.H85A.

NOTE: The data set WORK.PMED has 317065 observations and 13 variables.

NOTE: PROCEDURE SORT used:

```
real time      56.31 seconds
cpu time      4.53 seconds
```

```
80
81     DATA ASPMEDS;
82         MERGE PMED (KEEP=LINKIDX RXRECIDX RXNAME RXXP04X PERWT04F)
83             ASCLNKS (IN=INASCLNK KEEP=EVNTIDX RENAME=(EVNTIDX=LINKIDX));
84         BY LINKIDX;
85         IF INASCLNK & PERWT04F>0;
86     RUN;
```

NOTE: There were 317065 observations read from the data set WORK.PMED.

NOTE: There were 7225 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASPMEDS has 10670 observations and 5 variables.

NOTE: DATA statement used:

```
real time      1.73 seconds
cpu time      0.63 seconds
```

```
87
88     proc print data=aspmeds (obs=300);
89         by linkidx;
90         id linkidx;
91         var rxrecidx rxname RXXP04X PERWT04F;
92         title3 "sample print of work.aspmeds";
93         title4 "PMED (HC-085A) 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:  
real time 0.00 seconds  
cpu time 0.00 seconds

```
95
96 PROC MEANS DATA=ASPMEDS N SUM;
97 VAR RXXP04X;
98 TITLE3 "Total Rx expenditures associated with asthma";
99 RUN;
```

NOTE: There were 10670 observations read from the data set WORK.ASPMEDS.

NOTE: The PROCEDURE MEANS printed page 15.

NOTE: PROCEDURE MEANS used:  
real time 0.09 seconds  
cpu time 0.01 seconds

```
100
101 PROC MEANS DATA=ASPMEDS N SUM;
102 VAR RXXP04X;
103 WEIGHT PERWT04F;
104 TITLE3 "Total Rx expenditures associated with asthma";
105 TITLE5 "Weighted";
106 RUN;
```

NOTE: There were 10670 observations read from the data set WORK.ASPMEDS.

NOTE: The PROCEDURE MEANS printed page 16.

NOTE: PROCEDURE MEANS used:  
real time 0.03 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 1:29.32  
cpu time 9.06 seconds

Sample SAS Job for Example B  
 sample print of work.asconds - sorted by condidx  
 COND (H87) records where cccodex=128

Obs	CCCODEX	CONDIDX
1	128	500070130028
2	128	500070200033
3	128	500200110056
4	128	500360140018
5	128	500430190052
6	128	500460100016
7	128	500660410013
8	128	500680120023
9	128	500700150079
10	128	500950250018
11	128	500990170024
12	128	501090310018
13	128	501150120029
14	128	501160150036
15	128	501170360054
16	128	501290180058
17	128	501420340016
18	128	501690160041
19	128	501840550020
20	128	501840620013
21	128	501910540019
22	128	501970350043
23	128	502110120053
24	128	502620440014
25	128	502870280065
26	128	502900180021
27	128	503080270027
28	128	503100450013
29	128	503250380018
30	128	503370280017
31	128	503500310054
32	128	503580110010
33	128	503720160023
34	128	503730590022
35	128	504010100086
36	128	504200240023
37	128	504200480015
38	128	504230270053
39	128	504480460018
40	128	504520190016
41	128	504580270025
42	128	504580270075
43	128	504600560011
44	128	504720230091
45	128	504910450035
46	128	505160200037
47	128	505160500013
48	128	505160670034
49	128	505180190034
50	128	505280110061

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

CONDIDX	EVNTIDX	EVENTYPE
500070130028	500070130256	8 PMED
	500070130263	8 PMED
	500070130410	8 PMED
	500070130427	8 PMED
500070200033	500070200085	8 PMED
	500070200092	8 PMED
	500070200105	8 PMED
500200110056	500200110232	8 PMED
	500200110636	8 PMED
	500200111040	8 PMED
500360140018	500360140029	1 MVIS
	500360140074	8 PMED
	500360140252	8 PMED
	500360140269	8 PMED
	500360140276	8 PMED
	500360140283	8 PMED
	500360140290	8 PMED
	500360140601	8 PMED
	500360140618	8 PMED
	500360140625	8 PMED
500430190052	500430190066	8 PMED
500460100016	500460100012	8 PMED
500660410013	500660410013	1 MVIS
	500660410020	1 MVIS
	500660410037	1 MVIS
	500660410044	8 PMED
	500660410051	8 PMED
	500660410068	8 PMED
	500660410082	8 PMED
500680120023	500680120011	1 MVIS
	500680120035	8 PMED
	500680120042	8 PMED
	500680120059	8 PMED
	500680120117	8 PMED
500680120124	8 PMED	
500700150079	500700150393	8 PMED
	500700150413	1 MVIS
	500700150437	1 MVIS
	500700150622	8 PMED
	500700150660	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
500990170024	500990170063	8 PMED
	500990170169	8 PMED
	500990170176	8 PMED
	500990170183	8 PMED
	500990170272	8 PMED
501090310018	501090310018	1 MVIS
	501090310025	1 MVIS
	501090310032	1 MVIS
	501090310049	1 MVIS
	501090310056	1 MVIS
	501090310063	1 MVIS
	501090310070	1 MVIS
	501090310087	1 MVIS
	501090310176	8 PMED
	501090310183	8 PMED
501150120029	501150120037	8 PMED
	501150120119	1 MVIS
	501150120126	1 MVIS
	501150120133	1 MVIS
	501150120140	1 MVIS
	501150120157	1 MVIS
	501150120164	8 PMED
501160150036	501160150024	1 MVIS
	501160150031	1 MVIS
	501160150048	8 PMED
	501160150079	8 PMED
	501160150144	1 MVIS
	501160150168	8 PMED
	501160150459	8 PMED
	501160150466	8 PMED
501170360054	501170360156	1 MVIS
	501170360170	8 PMED
	501170360214	8 PMED
	501170360221	8 PMED
	501170360238	8 PMED

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

Obs	EVNTIDX	EVENTYPE	CONDIDX
1	500070130256	8 PMED	500070130028
2	500070130263	8 PMED	500070130028
3	500070130410	8 PMED	500070130028
4	500070130427	8 PMED	500070130028
5	500070200085	8 PMED	500070200033
6	500070200092	8 PMED	500070200033
7	500070200105	8 PMED	500070200033
8	500200110232	8 PMED	500200110056
9	500200110636	8 PMED	500200110056
10	500200111040	8 PMED	500200110056
11	500360140029	1 MVIS	500360140018
12	500360140074	8 PMED	500360140018
13	500360140252	8 PMED	500360140018
14	500360140269	8 PMED	500360140018
15	500360140276	8 PMED	500360140018
16	500360140283	8 PMED	500360140018
17	500360140290	8 PMED	500360140018
18	500360140601	8 PMED	500360140018
19	500360140618	8 PMED	500360140018
20	500360140625	8 PMED	500360140018
21	500430190066	8 PMED	500430190052
22	500460100012	8 PMED	500460100016
23	500660410013	1 MVIS	500660410013
24	500660410020	1 MVIS	500660410013
25	500660410037	1 MVIS	500660410013
26	500660410044	8 PMED	500660410013
27	500660410051	8 PMED	500660410013
28	500660410068	8 PMED	500660410013
29	500660410082	8 PMED	500660410013
30	500680120011	1 MVIS	500680120023
31	500680120035	8 PMED	500680120023
32	500680120042	8 PMED	500680120023
33	500680120059	8 PMED	500680120023
34	500680120117	8 PMED	500680120023
35	500680120124	8 PMED	500680120023
36	500700150393	8 PMED	500700150079
37	500700150413	1 MVIS	500700150079
38	500700150437	1 MVIS	500700150079
39	500700150622	8 PMED	500700150079
40	500700150660	8 PMED	500700150079
41	500990170063	8 PMED	500990170024
42	500990170169	8 PMED	500990170024
43	500990170176	8 PMED	500990170024
44	500990170183	8 PMED	500990170024
45	500990170272	8 PMED	500990170024
46	501090310018	1 MVIS	501090310018
47	501090310025	1 MVIS	501090310018
48	501090310032	1 MVIS	501090310018
49	501090310049	1 MVIS	501090310018
50	501090310056	1 MVIS	501090310018

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

Obs	EVNTIDX	EVENTYPE
1	500070130256	8 PMED
2	500070130263	8 PMED
3	500070130410	8 PMED
4	500070130427	8 PMED
5	500070200085	8 PMED
6	500070200092	8 PMED
7	500070200105	8 PMED
8	500200110232	8 PMED
9	500200110636	8 PMED
10	500200111040	8 PMED
11	500360140029	1 MVIS
12	500360140074	8 PMED
13	500360140252	8 PMED
14	500360140269	8 PMED
15	500360140276	8 PMED
16	500360140283	8 PMED
17	500360140290	8 PMED
18	500360140601	8 PMED
19	500360140618	8 PMED
20	500360140625	8 PMED
21	500430190066	8 PMED
22	500460100012	8 PMED
23	500660410013	1 MVIS
24	500660410020	1 MVIS
25	500660410037	1 MVIS
26	500660410044	8 PMED
27	500660410051	8 PMED
28	500660410068	8 PMED
29	500660410082	8 PMED
30	500680120011	1 MVIS
31	500680120035	8 PMED
32	500680120042	8 PMED
33	500680120059	8 PMED
34	500680120117	8 PMED
35	500680120124	8 PMED
36	500700150393	8 PMED
37	500700150413	1 MVIS
38	500700150437	1 MVIS
39	500700150622	8 PMED
40	500700150660	8 PMED
41	500990170063	8 PMED
42	500990170169	8 PMED
43	500990170176	8 PMED
44	500990170183	8 PMED
45	500990170272	8 PMED
46	501090310018	1 MVIS
47	501090310025	1 MVIS
48	501090310032	1 MVIS
49	501090310049	1 MVIS
50	501090310056	1 MVIS



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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
500070130256	500070130256001	ALBUTEROL	10.68	8889.356585
	500070130256002	ALBUTEROL	10.68	8889.356585
	500070130256003	ALBUTEROL	10.68	8889.356585
500070130263	500070130263001	FLOVENT	76.55	8889.356585
	500070130263002	FLOVENT	76.55	8889.356585
	500070130263003	FLOVENT	76.55	8889.356585
500070130410	500070130410001	ALBUTEROL	36.54	8889.356585
	500070130410002	ALBUTEROL	36.54	8889.356585
	500070130410003	ALBUTEROL	36.54	8889.356585
500070130427	500070130427001	FLOVENT	76.55	8889.356585
	500070130427002	FLOVENT	76.55	8889.356585
	500070130427003	FLOVENT	76.55	8889.356585
500070200085	500070200085001	ALBUTEROL	20.50	6960.075150
	500070200085002	ALBUTEROL	20.50	6960.075150
	500070200085003	ALBUTEROL	20.50	6960.075150
500070200092	500070200092001	FLOVENT	83.47	6960.075150
	500070200092002	FLOVENT	83.47	6960.075150
	500070200092003	FLOVENT	83.47	6960.075150
500070200105	500070200105001	CLARINEX	66.20	6960.075150
500200110232	500200110232001	SINGULAIR (UNIT OF USE)	88.79	5925.342066
500200110636	500200110636001	ALLEGRA (FILM-COATED)	83.51	5925.342066
	500200110636002	ALLEGRA (FILM-COATED)	83.51	5925.342066
	500200110636003	ALLEGRA (FILM-COATED)	83.51	5925.342066
	500200110636004	ALLEGRA (FILM-COATED)	83.51	5925.342066
	500200110636005	ALLEGRA (FILM-COATED)	83.51	5925.342066
500200111040	500200111040001	ALLEGRA	39.43	5925.342066
	500200111040002	ALLEGRA	39.43	5925.342066
	500200111040003	ALLEGRA	39.43	5925.342066
	500200111040004	ALLEGRA	39.43	5925.342066
	500200111040005	ALLEGRA	39.43	5925.342066
500360140074	500360140074001	ALBUTEROL	29.79	18145.547255
500360140252	500360140252001	ADVAIR DISKUS 60'S	521.34	18145.547255
	500360140252002	ADVAIR DISKUS 60'S	521.34	18145.547255
500360140269	500360140269001	IPRATROPIUM BROMIDE	56.19	18145.547255
	500360140269002	IPRATROPIUM BROMIDE	56.19	18145.547255
500360140276	500360140276001	UNIPHYL	110.73	18145.547255

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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
500360140276	500360140276002	UNIPHYL	110.73	18145.547255
500360140283	500360140283001	COMBIVENT	302.84	18145.547255
	500360140283002	COMBIVENT	302.84	18145.547255
500360140290	500360140290001	PREDNISONE	4.41	18145.547255
	500360140290002	PREDNISONE	4.41	18145.547255
500360140601	500360140601001	COMBIVENT	302.84	18145.547255
	500360140601002	COMBIVENT	302.84	18145.547255
500360140618	500360140618001	IPRATROPIUM BROMIDE	56.19	18145.547255
	500360140618002	IPRATROPIUM BROMIDE	56.19	18145.547255
500360140625	500360140625001	METHYLPREDNISOLONE	74.34	18145.547255
	500360140625002	METHYLPREDNISOLONE	74.34	18145.547255
	500360140625003	METHYLPREDNISOLONE	74.34	18145.547255
500430190066	500430190066001	ALBUTEROL	11.34	6423.278613
500460100012	500460100012001	ORTHO TRI-CYCLEN	43.74	8690.565089
	500460100012002	ORTHO TRI-CYCLEN	43.74	8690.565089
	500460100012003	ORTHO TRI-CYCLEN	43.74	8690.565089
	500460100012004	ORTHO TRI-CYCLEN	43.74	8690.565089
500660410044	500660410044001	TRIPROLIDINE/PSEUDOEPHEDRINE	2.34	1746.779809
500660410051	500660410051001	ALBUTEROL	5.71	1746.779809
500660410068	500660410068001	BROTAPP-DM C+C	14.49	1746.779809
500660410082	500660410082001	DIPHEN AF (CHERRY)	17.99	1746.779809
500680120035	500680120035001	SEREVENT DISKUS	20.00	10088.578356
500680120042	500680120042001	COMBIVENT	58.47	10088.578356
500680120059	500680120059001	FLOVENT	20.00	10088.578356
500680120117	500680120117001	SEREVENT DISKUS	20.00	10088.578356
500680120124	500680120124001	FLOVENT	20.00	10088.578356
500700150393	500700150393001	ALBUTEROL	21.41	13075.037223
500700150622	500700150622001	PREDNISONE	9.99	13075.037223
500700150660	500700150660001	ALBUTEROL	21.41	13075.037223
	500700150660002	ALBUTEROL	21.41	13075.037223

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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
500990170063	500990170063001	ADVAIR DISKUS 100/50	118.01	4051.586162
500990170169	500990170169001	ADVAIR DISKUS 100/50	114.32	4051.586162
500990170176	500990170176001	FLONASE	64.36	4051.586162
500990170183	500990170183001	ALBUTEROL	10.05	4051.586162
500990170272	500990170272001	ADVAIR DISKUS 100/50	118.01	4051.586162
501090310176	501090310176001	ADVAIR	106.02	12809.897585
501090310183	501090310183001	NASACORT	59.85	12809.897585
501150120037	501150120037001	SINGULAIR (UNIT OF USE)	98.40	5655.210465
	501150120037002	SINGULAIR (UNIT OF USE)	98.40	5655.210465
	501150120037003	SINGULAIR (UNIT OF USE)	98.40	5655.210465
501150120164	501150120164001	SINGULAIR (UNIT OF USE)	86.17	5655.210465
	501150120164002	SINGULAIR (UNIT OF USE)	86.17	5655.210465
	501150120164003	SINGULAIR (UNIT OF USE)	86.17	5655.210465
	501150120164004	SINGULAIR (UNIT OF USE)	98.40	5655.210465
501160150048	501160150048001	SINGULAIR (UNIT OF USE)	20.00	16315.927203
501160150079	501160150079001	ADVAIR DISKUS 100/50	129.10	16315.927203
501160150168	501160150168001	SINGULAIR (UNIT OF USE)	20.00	16315.927203
501160150459	501160150459001	ASTELIN	74.06	16315.927203
501160150466	501160150466001	ADVAIR DISKUS 250/50	163.41	16315.927203
501170360170	501170360170001	ALBUTEROL	17.32	5454.071837
	501170360170002	ALBUTEROL	17.32	5454.071837
	501170360170003	ALBUTEROL	17.32	5454.071837
501170360214	501170360214001	NASONEX	77.58	5454.071837
501170360221	501170360221001	SODIUM CHLORIDE	19.28	5454.071837
501170360238	501170360238001	PULMICORT	269.08	5454.071837
501290180194	501290180194001	ALBUTEROL	42.82	8032.825596
	501290180194002	ALBUTEROL	42.82	8032.825596
501290180303	501290180303001	NASONEX	67.17	8032.825596
	501290180303002	NASONEX	67.17	8032.825596

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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
501290180341	501290180341001	ALBUTEROL	21.35	8032.825596
	501290180341002	ALBUTEROL	21.35	8032.825596
501290180358	501290180358001	AZMACORT	88.15	8032.825596
	501290180358002	AZMACORT	88.15	8032.825596
501420340200	501420340200001	ALBUTEROL	89.37	11749.261656
501420340279	501420340279001	SINGULAIR (UNIT OF USE)	98.40	11749.261656
501420340286	501420340286001	THEOPHYLLINE ER	95.81	11749.261656
501420340293	501420340293001	ADVAIR DISKUS 500/50	40.00	11749.261656
501420340313	501420340313001	ALBUTEROL	89.37	11749.261656
	501420340313002	ALBUTEROL	89.37	11749.261656
	501420340313003	ALBUTEROL	89.37	11749.261656
	501420340313004	ALBUTEROL	89.37	11749.261656
	501420340313005	ALBUTEROL	89.37	11749.261656
	501420340313006	ALBUTEROL	89.37	11749.261656
501420340368	501420340368001	ALBUTEROL	64.23	11749.261656
501420340375	501420340375001	SINGULAIR (UNIT OF USE)	40.00	11749.261656
501420340382	501420340382001	THEOPHYLLINE ER	95.81	11749.261656
501420340399	501420340399001	ADVAIR DISKUS 500/50	40.00	11749.261656
501420340402	501420340402001	PREDNISONE	7.98	11749.261656
	501420340402002	PREDNISONE	7.98	11749.261656
501420340419	501420340419001	FLONASE	71.68	11749.261656
501690160090	501690160090001	FORMALIN	19.60	2468.166224
	501690160090002	FORMALIN	19.60	2468.166224
	501690160090003	FORMALIN	19.60	2468.166224
501690160103	501690160103001	SINGULAIR	40.00	2468.166224
	501690160103002	SINGULAIR	40.00	2468.166224
	501690160103003	SINGULAIR	40.00	2468.166224
501690160247	501690160247001	FLOVENT	89.36	2468.166224
	501690160247002	FLOVENT	89.36	2468.166224
	501690160247003	FLOVENT	89.36	2468.166224
	501690160247004	FLOVENT	89.36	2468.166224
501690160329	501690160329001	ADVAIR DISKUS 250/50	163.41	2468.166224
	501690160329002	ADVAIR DISKUS 250/50	163.41	2468.166224

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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
501690160329	501690160329003	ADVAIR DISKUS 250/50	163.41	2468.166224
501840550070	501840550070001	FLOVENT	62.69	2263.595578
501840550087	501840550087001	PROVENTIL	4.33	2263.595578
501840550121	501840550121001	FLOVENT	77.71	2263.595578
	501840550121002	FLOVENT	77.71	2263.595578
	501840550121003	FLOVENT	77.71	2263.595578
501840550176	501840550176001	FLOVENT	77.71	2263.595578
501840550183	501840550183001	PROVENTIL	4.33	2263.595578
501840620025	501840620025001	FLOVENT	62.69	2860.398153
	501840620025002	FLOVENT	62.69	2860.398153
	501840620025003	FLOVENT	62.69	2860.398153
501840620032	501840620032001	ALBUTEROL	12.10	2860.398153
501840620063	501840620063001	FLOVENT	62.69	2860.398153
	501840620063002	FLOVENT	62.69	2860.398153
	501840620063003	FLOVENT	62.69	2860.398153
501840620070	501840620070001	ALBUTEROL	17.99	2860.398153
501840620107	501840620107001	FLOVENT	62.69	2860.398153
	501840620107002	FLOVENT	62.69	2860.398153
501840620114	501840620114001	ALBUTEROL	21.41	2860.398153
501910540024	501910540024001	ALBUTEROL	20.50	2697.068823
	501910540024002	ALBUTEROL	20.50	2697.068823
	501910540024003	ALBUTEROL	20.50	2697.068823
501910540055	501910540055001	ALBUTEROL	12.10	2697.068823
501910540062	501910540062001	ALBUTEROL	20.50	2697.068823
501910540079	501910540079001	PREDNISOLONE SODIUM PHOSPHATE	12.60	2697.068823
501970350043	501970350043001	ALLEGRA-D	29.70	2370.738304
502110120089	502110120089001	DILEX-G	10.07	17173.728728
502620440012	502620440012001	ADVAIR	114.66	6994.808716
	502620440012002	ADVAIR	114.66	6994.808716
	502620440012003	ADVAIR	114.66	6994.808716
	502620440012004	ADVAIR	114.66	6994.808716

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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
502620440012	502620440012005	ADVAIR	114.66	6994.808716
	502620440012006	ADVAIR	114.66	6994.808716
	502620440012007	ADVAIR	114.66	6994.808716
	502620440012008	ADVAIR	114.66	6994.808716
502870280137	502870280137001	ADVAIR DISKUS	171.41	6662.211040
	502870280137002	ADVAIR DISKUS	171.41	6662.211040
502870280168	502870280168001	ALBUTEROL	9.96	6662.211040
	502870280168002	ALBUTEROL	9.96	6662.211040
	502870280168003	ALBUTEROL	9.96	6662.211040
502870280264	502870280264001	ADVAIR DISKUS 250/50	163.41	6662.211040
503080270063	503080270063001	FLOVENT	54.43	22924.398377
503100450013	503100450013001	SINGULAIR	85.14	10693.385683
	503100450013002	SINGULAIR	85.14	10693.385683
	503100450013003	SINGULAIR	85.14	10693.385683
	503100450013004	SINGULAIR	85.14	10693.385683
503100450020	503100450020001	SINGULAIR	81.31	10693.385683
	503100450020002	SINGULAIR	81.31	10693.385683
503100450037	503100450037001	ALBUTEROL	27.85	10693.385683
	503100450037002	ALBUTEROL	27.85	10693.385683
	503100450037003	ALBUTEROL	27.85	10693.385683
503100450044	503100450044001	ALBUTEROL	27.85	10693.385683
	503100450044002	ALBUTEROL	27.85	10693.385683
503100450051	503100450051001	SINGULAIR	81.31	10693.385683
	503100450051002	SINGULAIR	81.31	10693.385683
503250380046	503250380046001	FLOVENT	59.14	4859.543960
503250380053	503250380053001	ALBUTEROL	9.70	4859.543960
503370280056	503370280056001	ALBUTEROL	19.60	4920.362655
503500310167	503500310167001	ALBUTEROL SULFATE	12.03	14552.194330
503500310174	503500310174001	ALBUTEROL	18.75	14552.194330
503580110017	503580110017001	THEOPHYLLINE	13.81	13651.008031
	503580110017002	THEOPHYLLINE	13.81	13651.008031
503580110024	503580110024001	ALBUTEROL	17.47	13651.008031
	503580110024002	ALBUTEROL	6.23	13651.008031

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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
503580110031	503580110031001	FLOVENT	138.81	13651.008031
	503580110031002	FLOVENT	138.81	13651.008031
503580110048	503580110048001	GUAIFENESIN	9.07	13651.008031
	503580110048002	GUAIFENESIN	9.07	13651.008031
503580110079	503580110079001	THEOPHYLLINE	13.81	13651.008031
	503580110079002	THEOPHYLLINE	13.81	13651.008031
	503580110079003	THEOPHYLLINE	13.81	13651.008031
	503580110079004	THEOPHYLLINE	13.81	13651.008031
	503580110079005	THEOPHYLLINE	13.81	13651.008031
503580110086	503580110086001	ALBUTEROL	15.22	13651.008031
	503580110086002	ALBUTEROL	15.22	13651.008031
	503580110086003	ALBUTEROL	15.22	13651.008031
	503580110086004	ALBUTEROL	15.22	13651.008031
	503580110086005	ALBUTEROL	15.22	13651.008031
503580110093	503580110093001	FLOVENT	138.81	13651.008031
	503580110093002	FLOVENT	138.81	13651.008031
	503580110093003	FLOVENT	138.81	13651.008031
	503580110093004	FLOVENT	138.81	13651.008031
	503580110093005	FLOVENT	138.81	13651.008031
503580110106	503580110106001	GUAIFENESIN	9.07	13651.008031
	503580110106002	GUAIFENESIN	9.07	13651.008031
	503580110106003	GUAIFENESIN	9.07	13651.008031
	503580110106004	GUAIFENESIN	9.07	13651.008031
	503580110106005	GUAIFENESIN	9.07	13651.008031
503580110137	503580110137001	THEOPHYLLINE	13.81	13651.008031
	503580110137002	THEOPHYLLINE	13.81	13651.008031
	503580110137003	THEOPHYLLINE	13.81	13651.008031
	503580110137004	THEOPHYLLINE	13.81	13651.008031
503580110144	503580110144001	ALBUTEROL	6.23	13651.008031
	503580110144002	ALBUTEROL	6.23	13651.008031
	503580110144003	ALBUTEROL	6.23	13651.008031
	503580110144004	ALBUTEROL	6.23	13651.008031
503580110151	503580110151001	FLOVENT	138.81	13651.008031
	503580110151002	FLOVENT	138.81	13651.008031
	503580110151003	FLOVENT	138.81	13651.008031
	503580110151004	FLOVENT	138.81	13651.008031
503580110168	503580110168001	GUAIFENESIN	9.07	13651.008031
	503580110168002	GUAIFENESIN	9.07	13651.008031
	503580110168003	GUAIFENESIN	9.07	13651.008031
	503580110168004	GUAIFENESIN	9.07	13651.008031

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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
503720160032	503720160032001	BRONCHO SALINE	6.79	18405.939356
	503720160032002	BRONCHO SALINE	6.79	18405.939356
	503720160032003	BRONCHO SALINE	6.79	18405.939356
503720160107	503720160107001	BRONCHO SALINE	6.79	18405.939356
	503720160107002	BRONCHO SALINE	6.79	18405.939356
	503720160107003	BRONCHO SALINE	6.79	18405.939356
	503720160107004	BRONCHO SALINE	6.79	18405.939356
	503720160107005	BRONCHO SALINE	6.79	18405.939356
503720160114	503720160114001	ALBUTEROL	10.38	18405.939356
	503720160114002	ALBUTEROL	10.38	18405.939356
	503720160114003	ALBUTEROL	10.38	18405.939356
	503720160114004	ALBUTEROL	10.38	18405.939356
	503720160114005	ALBUTEROL	10.38	18405.939356
	503720160114006	ALBUTEROL	10.38	18405.939356
503720160190	503720160190001	BRONCHO SALINE	6.79	18405.939356
	503720160190002	BRONCHO SALINE	6.79	18405.939356
	503720160190003	BRONCHO SALINE	6.79	18405.939356
504010100228	504010100228001	ADVAIR	23.04	8758.376893
	504010100228002	ADVAIR	23.04	8758.376893
	504010100228003	ADVAIR	23.04	8758.376893
504200240039	504200240039001	SINGULAIR	108.03	4410.770983
504200240053	504200240053001	SINGULAIR	108.03	4410.770983
504230270109	504230270109001	ADVAIR DISKUS 250/50	163.41	13933.778795
	504230270109002	ADVAIR DISKUS 250/50	163.41	13933.778795
504480460114	504480460114001	ORAPRED	11.53	23796.692200
504480460121	504480460121001	FLOVENT	41.02	23796.692200
	504480460121002	FLOVENT	58.72	23796.692200
504480460265	504480460265001	FLOVENT	43.72	23796.692200
	504480460265002	FLOVENT	43.72	23796.692200
504480460272	504480460272001	NASACORT AQ	31.76	23796.692200
	504480460272002	NASACORT AQ	35.35	23796.692200
504480460354	504480460354001	PREDNISONE	3.46	23796.692200
504480460378	504480460378001	FLOVENT	41.02	23796.692200
504480460392	504480460392001	ALBUTEROL	11.43	23796.692200



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

PMED (HC-085A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
504520190029	504520190029001	ALBUTEROL	29.79	4720.030822
504580270035	504580270035001	Z-PAK	45.00	6698.424396
504580270042	504580270042001	CHOLESTYRAMINE	5.00	6698.424396
504580270059	504580270059001	ADVAIR	23.04	6698.424396
	504580270059002	ADVAIR	23.04	6698.424396
	504580270059003	ADVAIR	23.04	6698.424396
504580270066	504580270066001	ZYRTEC	59.67	6698.424396
	504580270066002	ZYRTEC	59.67	6698.424396
	504580270066003	ZYRTEC	59.67	6698.424396
504580270097	504580270097001	ZYRTEC	158.85	6698.424396
	504580270097002	ZYRTEC	158.85	6698.424396
	504580270097003	ZYRTEC	158.85	6698.424396
	504580270097004	ZYRTEC	158.85	6698.424396
	504580270097005	ZYRTEC	158.85	6698.424396
504580270100	504580270100001	ADVAIR	23.04	6698.424396
	504580270100002	ADVAIR	23.04	6698.424396
	504580270100003	ADVAIR	23.04	6698.424396
	504580270100004	ADVAIR	23.04	6698.424396
	504580270100005	ADVAIR	23.04	6698.424396
504580270117	504580270117001	RHINOCORT AQUA	74.84	6698.424396
	504580270117002	RHINOCORT AQUA	74.84	6698.424396
	504580270117003	RHINOCORT AQUA	74.84	6698.424396
	504580270117004	RHINOCORT AQUA	74.84	6698.424396
	504580270117005	RHINOCORT AQUA	74.84	6698.424396
504580270186	504580270186001	ADVAIR	2.72	6698.424396
	504580270186002	ADVAIR	2.72	6698.424396
	504580270186003	ADVAIR	2.72	6698.424396
504580270220	504580270220001	ALBUTEROL	10.14	6698.424396
504600560026	504600560026001	AVALIDE	54.55	4836.513225
504600560095	504600560095001	AVALIDE	179.22	4836.513225
504720230077	504720230077001	ADVAIR 100/50	112.73	21497.051971
	504720230077002	ADVAIR 100/50	112.73	21497.051971
	504720230077003	ADVAIR 100/50	112.73	21497.051971
504720230084	504720230084001	ATROVENT	57.94	21497.051971

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

The MEANS Procedure

Analysis Variable : RXXP04X SUM OF PAYMENTS RXSF04X-RXOU04X(IMPUTED)

N	Sum
10670	729496.51

HC-085I

14:42 Monday, September 18, 2006 16

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

Weighted

The MEANS Procedure

Analysis Variable : RXXP04X SUM OF PAYMENTS RXSF04X-RXOU04X(IMPUTED)

N	Sum
10670	6400164170

1

NOTE: Copyright (c) 1999-2001 by SAS Institute Inc., Cary, NC, USA.  
NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)  
NOTE: This session is executing on the WIN\_PRO platform.

NOTE: This installation is running Base SAS hot fix bundle 82BX09.

NOTE: SAS initialization used:  
real time 2.10 seconds  
cpu time 0.39 seconds

NOTE: AUTOEXEC processing beginning; file is C:\progra-1\sasins-1\sas\v8\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```
1
2     OPTIONS LS=132 PS=59;
3
4     TITLE1 "HC-085I";
5     TITLE2 "Sample SAS Job for Example C";
6
7     LIBNAME IN "C:\DATA";
```

NOTE: Libref IN was successfully assigned as follows:  
Engine: V8  
Physical Name: C:\DATA

```
8
9     *****
10    * Calculate the expenditures for medical visits associated with asthma.
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    RUN;
```

NOTE: PROCEDURE FORMAT used:  
real time 0.10 seconds  
cpu time 0.01 seconds

```
23
24    *-----
```

2

```

25      * Get conditions records coded as asthma.
26      *-----;
27      DATA ASCONDS;
28          SET IN.H87 (KEEP=CONDIDX CCCODEX);
29          IF CCCODEX="128";
30      RUN;

```

NOTE: There were 106738 observations read from the data set IN.H87.  
NOTE: The data set WORK.ASCONDS has 1835 observations and 2 variables.  
NOTE: DATA statement used:

real time	1.43 seconds
cpu time	0.17 seconds

```

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

```

NOTE: There were 1835 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCONDS has 1835 observations and 2 variables.  
NOTE: PROCEDURE SORT used:

real time	0.04 seconds
cpu time	0.00 seconds

```

36
37      proc print data=asconds (obs=50);
38          title3 "sample print of work.asconds - sorted by condidx";
39          title4 "COND (HC-087) records where cccodex=128";
40      run;

```

NOTE: There were 50 observations read from the data set WORK.ASCONDS.  
NOTE: The PROCEDURE PRINT printed page 1.  
NOTE: PROCEDURE PRINT used:

real time	0.21 seconds
cpu time	0.00 seconds

```

41
42      PROC SORT DATA=IN.H85IF1 OUT=CLNK; BY CONDIDX; RUN;

```

NOTE: There were 348119 observations read from the data set IN.H85IF1.  
NOTE: The data set WORK.CLNK has 348119 observations and 5 variables.  
NOTE: PROCEDURE SORT used:

real time	21.67 seconds
cpu time	2.54 seconds

```

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

```

NOTE: There were 348119 observations read from the data set WORK.CLNK.  
NOTE: There were 1835 observations read from the data set WORK.ASCONDS.  
NOTE: The data set WORK.ASCLNKS has 7244 observations and 3 variables.  
NOTE: DATA statement used:  
real time 2.82 seconds  
cpu time 0.40 seconds

```
50
51 proc print data=asclnks (obs=75);
52     by condidx;
53     id condidx;
54     format eventype eventype.;
55     title3 "sample print of work.asclnks - sorted by condidx";
56     title4 "events linked to asthma condition records";
57 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:  
real time 0.32 seconds  
cpu time 0.04 seconds

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

NOTE: There were 7244 observations read from the data set WORK.ASCLNKS.  
NOTE: The data set WORK.ASCLNKS has 7244 observations and 3 variables.  
NOTE: PROCEDURE SORT used:  
real time 0.01 seconds  
cpu time 0.01 seconds

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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.  
NOTE: The PROCEDURE PRINT printed page 4.  
NOTE: PROCEDURE PRINT used:  
real time 0.06 seconds  
cpu time 0.00 seconds

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

NOTE: There were 7244 observations read from the data set WORK.ASCLNKS.  
NOTE: The data set WORK.ASCLNKS has 7225 observations and 2 variables.

NOTE: DATA statement used:  
 real time 0.01 seconds  
 cpu time 0.01 seconds

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

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

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used:  
 real time 0.06 seconds  
 cpu time 0.00 seconds

```
76
77   *-----
78   * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
79   *-----;
80   DATA MVIS;
81       SET IN.H85G (KEEP=EVNTIDX PERWT04F SEETLKPV OBXP04X);
82       IF PERWT04F > 0 & SEETLKPV NE 2;
83   RUN;
```

NOTE: There were 157536 observations read from the data set IN.H85G.

NOTE: The data set WORK.MVIS has 152603 observations and 4 variables.

NOTE: DATA statement used:  
 real time 7.53 seconds  
 cpu time 0.71 seconds

```
84
85   PROC SORT DATA=MVIS; BY EVNTIDX; RUN;
```

NOTE: There were 152603 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.MVIS has 152603 observations and 4 variables.

NOTE: PROCEDURE SORT used:  
 real time 4.28 seconds  
 cpu time 0.87 seconds

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

NOTE: There were 7225 observations read from the data set WORK.ASCLNKS.

NOTE: There were 152603 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.ASMVIS has 2165 observations and 5 variables.

NOTE: DATA statement used:

```
real time      1.59 seconds
cpu time       0.18 seconds
```

```
96
97   proc print data=asmvis (obs=50);
98       format eventype eventype.;
99       title3 "sample print of work.asmvis";
100      title4 "unique evtidxs from work.asclnks that are non-telephone MVIS (HC-085G) events";
101      run;
```

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

NOTE: The PROCEDURE PRINT printed page 6.

NOTE: PROCEDURE PRINT used:

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

```
102
103   PROC MEANS DATA=ASMVIS N SUM;
104       VAR OBP04X;
105       TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
106       RUN;
```

NOTE: There were 2165 observations read from the data set WORK.ASMVIS.

NOTE: The PROCEDURE MEANS printed page 7.

NOTE: PROCEDURE MEANS used:

```
real time      0.09 seconds
cpu time       0.01 seconds
```

```
107
108   PROC MEANS DATA=ASMVIS N SUM;
109       VAR OBP04X;
110       WEIGHT PERWT04F;
111       TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
112       TITLE5 "Weighted";
113       RUN;
```

NOTE: There were 2165 observations read from the data set WORK.ASMVIS.

NOTE: The PROCEDURE MEANS printed page 8.

NOTE: PROCEDURE MEANS used:

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

```
114
115
116
```

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

NOTE: The SAS System used:

```
real time      42.90 seconds
cpu time       5.53 seconds
```



Sample SAS Job for Example C  
 sample print of work.asconds - sorted by condidx  
 COND (HC-087) records where cccodex=128

Obs	CCCODEX	CONDIDX
1	128	500070130028
2	128	500070200033
3	128	500200110056
4	128	500360140018
5	128	500430190052
6	128	500460100016
7	128	500660410013
8	128	500680120023
9	128	500700150079
10	128	500950250018
11	128	500990170024
12	128	501090310018
13	128	501150120029
14	128	501160150036
15	128	501170360054
16	128	501290180058
17	128	501420340016
18	128	501690160041
19	128	501840550020
20	128	501840620013
21	128	501910540019
22	128	501970350043
23	128	502110120053
24	128	502620440014
25	128	502870280065
26	128	502900180021
27	128	503080270027
28	128	503100450013
29	128	503250380018
30	128	503370280017
31	128	503500310054
32	128	503580110010
33	128	503720160023
34	128	503730590022
35	128	504010100086
36	128	504200240023
37	128	504200480015
38	128	504230270053
39	128	504480460018
40	128	504520190016
41	128	504580270025
42	128	504580270075
43	128	504600560011
44	128	504720230091
45	128	504910450035
46	128	505160200037
47	128	505160500013
48	128	505160670034
49	128	505180190034
50	128	505280110061

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

CONDIDX	EVNTIDX	EVENTYPE
500070130028	500070130256	8 PMED
	500070130263	8 PMED
	500070130410	8 PMED
	500070130427	8 PMED
500070200033	500070200085	8 PMED
	500070200092	8 PMED
	500070200105	8 PMED
500200110056	500200110232	8 PMED
	500200110636	8 PMED
	500200111040	8 PMED
500360140018	500360140029	1 MVIS
	500360140074	8 PMED
	500360140252	8 PMED
	500360140269	8 PMED
	500360140276	8 PMED
	500360140283	8 PMED
	500360140290	8 PMED
	500360140601	8 PMED
	500360140618	8 PMED
	500360140625	8 PMED
500430190052	500430190066	8 PMED
500460100016	500460100012	8 PMED
500660410013	500660410013	1 MVIS
	500660410020	1 MVIS
	500660410037	1 MVIS
	500660410044	8 PMED
	500660410051	8 PMED
	500660410068	8 PMED
	500660410082	8 PMED
500680120023	500680120011	1 MVIS
	500680120035	8 PMED
	500680120042	8 PMED
	500680120059	8 PMED
	500680120117	8 PMED
500680120124	8 PMED	
500700150079	500700150393	8 PMED
	500700150413	1 MVIS
	500700150437	1 MVIS
	500700150622	8 PMED
	500700150660	8 PMED

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

CONDIDX	EVNTIDX	EVENTYPE
500990170024	500990170063	8 PMED
	500990170169	8 PMED
	500990170176	8 PMED
	500990170183	8 PMED
	500990170272	8 PMED
501090310018	501090310018	1 MVIS
	501090310025	1 MVIS
	501090310032	1 MVIS
	501090310049	1 MVIS
	501090310056	1 MVIS
	501090310063	1 MVIS
	501090310070	1 MVIS
	501090310087	1 MVIS
	501090310176	8 PMED
	501090310183	8 PMED
501150120029	501150120037	8 PMED
	501150120119	1 MVIS
	501150120126	1 MVIS
	501150120133	1 MVIS
	501150120140	1 MVIS
	501150120157	1 MVIS
	501150120164	8 PMED
501160150036	501160150024	1 MVIS
	501160150031	1 MVIS
	501160150048	8 PMED
	501160150079	8 PMED
	501160150144	1 MVIS
	501160150168	8 PMED
	501160150459	8 PMED
	501160150466	8 PMED
501170360054	501170360156	1 MVIS
	501170360170	8 PMED
	501170360214	8 PMED
	501170360221	8 PMED
	501170360238	8 PMED

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

Obs	EVNTIDX	EVENTYPE	CONDIDX
1	500070130256	8 PMED	500070130028
2	500070130263	8 PMED	500070130028
3	500070130410	8 PMED	500070130028
4	500070130427	8 PMED	500070130028
5	500070200085	8 PMED	500070200033
6	500070200092	8 PMED	500070200033
7	500070200105	8 PMED	500070200033
8	500200110232	8 PMED	500200110056
9	500200110636	8 PMED	500200110056
10	500200111040	8 PMED	500200110056
11	500360140029	1 MVIS	500360140018
12	500360140074	8 PMED	500360140018
13	500360140252	8 PMED	500360140018
14	500360140269	8 PMED	500360140018
15	500360140276	8 PMED	500360140018
16	500360140283	8 PMED	500360140018
17	500360140290	8 PMED	500360140018
18	500360140601	8 PMED	500360140018
19	500360140618	8 PMED	500360140018
20	500360140625	8 PMED	500360140018
21	500430190066	8 PMED	500430190052
22	500460100012	8 PMED	500460100016
23	500660410013	1 MVIS	500660410013
24	500660410020	1 MVIS	500660410013
25	500660410037	1 MVIS	500660410013
26	500660410044	8 PMED	500660410013
27	500660410051	8 PMED	500660410013
28	500660410068	8 PMED	500660410013
29	500660410082	8 PMED	500660410013
30	500680120011	1 MVIS	500680120023
31	500680120035	8 PMED	500680120023
32	500680120042	8 PMED	500680120023
33	500680120059	8 PMED	500680120023
34	500680120117	8 PMED	500680120023
35	500680120124	8 PMED	500680120023
36	500700150393	8 PMED	500700150079
37	500700150413	1 MVIS	500700150079
38	500700150437	1 MVIS	500700150079
39	500700150622	8 PMED	500700150079
40	500700150660	8 PMED	500700150079
41	500990170063	8 PMED	500990170024
42	500990170169	8 PMED	500990170024
43	500990170176	8 PMED	500990170024
44	500990170183	8 PMED	500990170024
45	500990170272	8 PMED	500990170024
46	501090310018	1 MVIS	501090310018
47	501090310025	1 MVIS	501090310018
48	501090310032	1 MVIS	501090310018
49	501090310049	1 MVIS	501090310018
50	501090310056	1 MVIS	501090310018

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

Obs	EVNTIDX	EVENTYPE
1	500070130256	8 PMED
2	500070130263	8 PMED
3	500070130410	8 PMED
4	500070130427	8 PMED
5	500070200085	8 PMED
6	500070200092	8 PMED
7	500070200105	8 PMED
8	500200110232	8 PMED
9	500200110636	8 PMED
10	500200111040	8 PMED
11	500360140029	1 MVIS
12	500360140074	8 PMED
13	500360140252	8 PMED
14	500360140269	8 PMED
15	500360140276	8 PMED
16	500360140283	8 PMED
17	500360140290	8 PMED
18	500360140601	8 PMED
19	500360140618	8 PMED
20	500360140625	8 PMED
21	500430190066	8 PMED
22	500460100012	8 PMED
23	500660410013	1 MVIS
24	500660410020	1 MVIS
25	500660410037	1 MVIS
26	500660410044	8 PMED
27	500660410051	8 PMED
28	500660410068	8 PMED
29	500660410082	8 PMED
30	500680120011	1 MVIS
31	500680120035	8 PMED
32	500680120042	8 PMED
33	500680120059	8 PMED
34	500680120117	8 PMED
35	500680120124	8 PMED
36	500700150393	8 PMED
37	500700150413	1 MVIS
38	500700150437	1 MVIS
39	500700150622	8 PMED
40	500700150660	8 PMED
41	500990170063	8 PMED
42	500990170169	8 PMED
43	500990170176	8 PMED
44	500990170183	8 PMED
45	500990170272	8 PMED
46	501090310018	1 MVIS
47	501090310025	1 MVIS
48	501090310032	1 MVIS
49	501090310049	1 MVIS
50	501090310056	1 MVIS

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

unique evtntidxs from work.asclinks that are non-telephone MVIS (HC-085G) events

Obs	EVNTIDX	EVENTYPE	SEETLKPV	OBP04X	PERWT04F
1	500360140029	1 MVIS	1	168.62	18145.55
2	500660410013	1 MVIS	1	94.73	1746.78
3	500660410020	1 MVIS	1	49.53	1746.78
4	500660410037	1 MVIS	1	183.00	1746.78
5	500680120011	1 MVIS	1	103.20	10088.58
6	500700150413	1 MVIS	1	156.44	13075.04
7	500700150437	1 MVIS	1	128.72	13075.04
8	501090310018	1 MVIS	1	110.00	12809.90
9	501090310025	1 MVIS	1	89.91	12809.90
10	501090310032	1 MVIS	1	113.00	12809.90
11	501090310049	1 MVIS	1	86.24	12809.90
12	501090310056	1 MVIS	1	11.07	12809.90
13	501090310063	1 MVIS	1	30.00	12809.90
14	501090310070	1 MVIS	1	121.00	12809.90
15	501090310087	1 MVIS	1	107.68	12809.90
16	501150120119	1 MVIS	1	13.33	5655.21
17	501150120126	1 MVIS	1	13.33	5655.21
18	501150120133	1 MVIS	1	13.33	5655.21
19	501150120140	1 MVIS	1	31.11	5655.21
20	501150120157	1 MVIS	1	20.00	5655.21
21	501160150024	1 MVIS	1	58.00	16315.93
22	501160150031	1 MVIS	1	58.00	16315.93
23	501160150144	1 MVIS	1	58.00	16315.93
24	501170360156	1 MVIS	1	61.16	5454.07
25	501290180101	1 MVIS	1	14.00	8032.83
26	501290180252	1 MVIS	1	61.97	8032.83
27	501420340022	1 MVIS	1	10.00	11749.26
28	501420340039	1 MVIS	1	10.00	11749.26
29	501420340046	1 MVIS	1	69.00	11749.26
30	501420340053	1 MVIS	1	264.00	11749.26
31	501420340060	1 MVIS	1	10.00	11749.26
32	501420340077	1 MVIS	1	10.00	11749.26
33	501420340084	1 MVIS	1	10.00	11749.26
34	501420340091	1 MVIS	1	10.00	11749.26
35	501420340104	1 MVIS	1	10.00	11749.26
36	501420340111	1 MVIS	1	10.00	11749.26
37	501420340128	1 MVIS	1	10.00	11749.26
38	501420340135	1 MVIS	1	264.00	11749.26
39	501420340142	1 MVIS	1	10.00	11749.26
40	501420340159	1 MVIS	1	10.00	11749.26
41	501420340166	1 MVIS	1	10.00	11749.26
42	501420340173	1 MVIS	1	10.00	11749.26
43	501420340180	1 MVIS	1	10.00	11749.26
44	501420340197	1 MVIS	1	126.11	11749.26
45	501420340231	1 MVIS	1	69.49	11749.26
46	501420340248	1 MVIS	1	155.60	11749.26
47	501420340255	1 MVIS	1	155.60	11749.26
48	501910540017	1 MVIS	1	103.95	2697.07
49	501970350012	1 MVIS	1	0.00	2370.74
50	503250380022	1 MVIS	1	26.00	4859.54

Sample SAS Job for Example C

Total medical visit expenditures (excluding telephone) associated with asthma

The MEANS Procedure

Analysis Variable : OBP04X SUM OF OBSF04X - OBOT04X (IMPUTED)

N	Sum
2165	179729.42

Sample SAS Job for Example C

Total medical visit expenditures (excluding telephone) associated with asthma

Weighted

The MEANS Procedure

Analysis Variable : OBXP04X SUM OF OBSF04X - OBOT04X (IMPUTED)

N	Sum
2165	1518235749



NOTE: Copyright (c) 1999-2001 by SAS Institute Inc., Cary, NC, USA.  
 NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)  
 NOTE: This session is executing on the WIN\_PRO platform.

NOTE: This installation is running Base SAS hot fix bundle 82BX09.

NOTE: SAS initialization used:  
 real time 2.17 seconds  
 cpu time 0.38 seconds

NOTE: AUTOEXEC processing beginning; file is C:\progra-1\sasins-1\sas\v8\autoexec.sas.

NOTE: AUTOEXEC processing completed.

```

1
2     OPTIONS LS=132 PS=59;
3
4     TITLE1 "HC-085I";
5     TITLE2 "Sample SAS Job for Example D";
6
7     LIBNAME IN "C:\DATA";
NOTE: Libref IN was successfully assigned as follows:
Engine:          V8
Physical Name:  C:\DATA

```

```

8
9     *****
10    * Calculate the expenditures for prescribed medicines associated
11    * with insulin reported by the household as an other medical expense.
12    *****;
13

```

```

14    PROC FORMAT;
15        VALUE EVENTYPE
16            1 = "1 MVIS"
17            2 = "2 OPAT"
18            3 = "3 EROM"
19            4 = "4 STAZ"
20            5 = "5 DVIS"
21            6 = "6 OMED"
22            7 = "7 HVIS"
23            8 = "8 PMED";

```

NOTE: Format EVENTYPE has been output.

```

24
25        VALUE OMTYPE
26            -9 = "-9 NOT ASCERTAINED"
27            -8 = "-8 DK"
28            -7 = "-7 REFUSED"
29            -1 = "-1 INAPPLICABLE"
30            1 = "1 GLASSES OR CONTACT LENSES"

```

```

31      2 = "2 INSULIN"
32      3 = "3 DIABETIC EQUIPMENT/SUPPLIES"
33      4 = "4 AMBULANCE SERVICES"
34      5 = "5 ORTHOPEDIC ITEMS"
35      6 = "6 HEARING DEVICES"
36      7 = "7 PROSTHESIS"
37      8 = "8 BATHROOM AIDS"
38      9 = "9 MEDICAL EQUIPMENT"
39     10 = "10 DISPOSABLE SUPPLIES"
40     11 = "11 ALTERATIONS/MODIFICATIONS"
41     91 = "91 OTHER"
42      ;

```

NOTE: Format OMTYPE has been output.

```
43      RUN;
```

NOTE: PROCEDURE FORMAT used:

```

real time      0.10 seconds
cpu time       0.01 seconds

```

```

44
45      *-----
46      * Get other medical records for insulin for persons with positive weights.
47      *-----;
48
49      DATA OMED;
50          SET IN.H85C (KEEP=EVNTIDX PERWT04F OMTYPEX);
51          IF PERWT04F > 0 & OMTYPEX = 2;
52      RUN;

```

NOTE: There were 9580 observations read from the data set IN.H85C.

NOTE: The data set WORK.OMED has 558 observations and 3 variables.

NOTE: DATA statement used:

```

real time      0.43 seconds
cpu time       0.01 seconds

```

```

53
54      PROC SORT DATA=OMED; BY EVNTIDX; RUN;

```

NOTE: There were 558 observations read from the data set WORK.OMED.

NOTE: The data set WORK.OMED has 558 observations and 3 variables.

NOTE: PROCEDURE SORT used:

```

real time      0.04 seconds
cpu time       0.01 seconds

```

```

55
56      proc print data=omed (obs=100);
57          var evntidx OMTYPEX PERWT04F;
58          format OMTYPEX omtype.;
59          title3 "sample print of OMED (HC-085C) records where OMTYPEX=2";
60      run;

```

NOTE: There were 100 observations read from the data set WORK.OMED.

NOTE: The PROCEDURE PRINT printed pages 1-2.

NOTE: PROCEDURE PRINT used:

```
real time      0.32 seconds
cpu time       0.06 seconds
```

```
61
62      *-----
63      * Get PMED IDs linked to the OMED events which were for insulin.
64      *-----;
65
66      PROC SORT DATA=IN.H85IF2 OUT=RXLK; BY EVNTIDX; RUN;
```

NOTE: There were 62663 observations read from the data set IN.H85IF2.

NOTE: The data set WORK.RXLK has 62663 observations and 5 variables.

NOTE: PROCEDURE SORT used:

```
real time      0.62 seconds
cpu time       0.60 seconds
```

```
67
68      proc print data=rxlk (obs=150);
69          by evntidx;
70          id evntidx;
71          var linkidx eventype;
72          format eventype eventype.;
73          title3 "sample print of Rx+event link file records (HC-85IF2) - sorted by evntidx";
74      run;
```

NOTE: There were 150 observations read from the data set WORK.RXLK.

NOTE: The PROCEDURE PRINT printed pages 3-7.

NOTE: PROCEDURE PRINT used:

```
real time      0.06 seconds
cpu time       0.01 seconds
```

```
75
76      data omedrxlk;
77          set rxlk (where=(eventype=6));
78      run;
```

NOTE: There were 1958 observations read from the data set WORK.RXLK.

WHERE eventype=6;

NOTE: The data set WORK.OMEDRXLK has 1958 observations and 5 variables.

NOTE: DATA statement used:

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

```
79      proc print data=omedrxlk (obs=120);
80          by evntidx;
81          id evntidx;
82          var linkidx eventype;
83          format eventype eventype.;
84          title3 "sample print of work.omedrxlk - sorted by evntidx";
85          title4 "Rx+event link file records (HC-85IF2) where eventype=6 (omed)";
86      run;
```

NOTE: There were 120 observations read from the data set WORK.OMEDRXLK.

NOTE: The PROCEDURE PRINT printed pages 8-12.

NOTE: PROCEDURE PRINT used:  
real time 0.01 seconds  
cpu time 0.00 seconds

```
87
88     DATA PMEDIDS;
89         MERGE RXLK (IN=INRXLK KEEP=EVNTIDX LINKIDX EVENTYPE)
90             OMED (IN=INOMED KEEP=EVNTIDX);
91     BY EVNTIDX;
92     IF INRXLK & INOMED;
93     RUN;
```

NOTE: There were 62663 observations read from the data set WORK.RXLK.

NOTE: There were 558 observations read from the data set WORK.OMED.

NOTE: The data set WORK.PMEDIDS has 524 observations and 3 variables.

NOTE: DATA statement used:  
real time 0.07 seconds  
cpu time 0.07 seconds

```
94
95     proc print data=pmedids (obs=50);
96         by evtidx;
97         id evtidx;
98         format eventype eventype.;
99         title3 "sample print of work.pmedids - sorted by evtidx";
100        title4 "work.rxlk records for omed events for insulin";
101    run;
```

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

NOTE: The PROCEDURE PRINT printed pages 13-14.

NOTE: PROCEDURE PRINT used:  
real time 0.03 seconds  
cpu time 0.01 seconds

```
102
103     PROC SORT DATA=PMEDIDS; BY LINKIDX; RUN;
```

NOTE: There were 524 observations read from the data set WORK.PMEDIDS.

NOTE: The data set WORK.PMEDIDS has 524 observations and 3 variables.

NOTE: PROCEDURE SORT used:  
real time 0.00 seconds  
cpu time 0.00 seconds

```
104
105     proc print data=pmedids (obs=50);
106         format eventype eventype.;
107         title3 "sample print of work.pmedids - sorted by linkidx";
108    run;
```

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

NOTE: The PROCEDURE PRINT printed page 15.

NOTE: PROCEDURE PRINT used:

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

```
109
110 DATA PMEDIDS;
111     SET PMEDIDS (KEEP=LINKIDX);
112     BY LINKIDX;
113     IF FIRST.LINKIDX;
114     KEEP LINKIDX;
115 RUN;
```

NOTE: There were 524 observations read from the data set WORK.PMEDIDS.

NOTE: The data set WORK.PMEDIDS has 524 observations and 1 variables.

NOTE: DATA statement used:

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

```
116
117 proc print data=pmedids (obs=50);
118     title3 "sample print of unique linkidxs in work.pmedids";
119 run;
```

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

NOTE: The PROCEDURE PRINT printed page 16.

NOTE: PROCEDURE PRINT used:

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

```
120
121
122 *-----
123 * Get PMED records for OMED event which were for insulin.
124 *-----;
125 PROC SORT DATA=IN.H85A OUT=PMED; BY LINKIDX; RUN;
```

NOTE: There were 317065 observations read from the data set IN.H85A.

NOTE: The data set WORK.PMED has 317065 observations and 13 variables.

NOTE: PROCEDURE SORT used:

```
real time      57.95 seconds
cpu time       4.78 seconds
```

```
126
127 DATA OMPMEDS;
128     MERGE PMED (KEEP=LINKIDX RXRECIDX RXXP04X PERWT04F RXNAME)
129     PMEDIDS (IN=A);
130     BY LINKIDX;
131     IF A & PERWT04F>0;
132 RUN;
```

NOTE: There were 317065 observations read from the data set WORK.PMED.

NOTE: There were 524 observations read from the data set WORK.PMEDIDS.

NOTE: The data set WORK.OMPAMEDS has 1778 observations and 5 variables.

NOTE: DATA statement used:

```
real time      1.29 seconds
cpu time       0.56 seconds
```

```
133
134   proc print data=ompmeds (obs=200);
135       by linkidx;
136       id linkidx;
137       var rxrecidx rxname RXXP04X PERWT04F;
138       title3 "sample print of work.pmeds";
139       title4 "PMED (HC-085A) records for unique linkidxs in work.pmedids";
140   run;
```

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

NOTE: The PROCEDURE PRINT printed pages 17-22.

NOTE: PROCEDURE PRINT used:

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

```
141
142   PROC MEANS DATA=OMPMEDS N SUM;
143       VAR RXXP04X;
144       TITLE3 "Total Rx expenditures associated with other medical expenses for insulin";
145   RUN;
```

NOTE: There were 1778 observations read from the data set WORK.OMPMEDS.

NOTE: The PROCEDURE MEANS printed page 23.

NOTE: PROCEDURE MEANS used:

```
real time      0.09 seconds
cpu time       0.01 seconds
```

```
146
147   PROC MEANS DATA=OMPMEDS N SUM;
148       VAR RXXP04X;
149       WEIGHT PERWT04F;
150       TITLE3 "Total Rx expenditures associated with other medical expenses for insulin";
151       TITLE5 "Weighted";
152   RUN;
```

NOTE: There were 1778 observations read from the data set WORK.OMPMEDS.

NOTE: The PROCEDURE MEANS printed page 24.

NOTE: PROCEDURE MEANS used:

```
real time      0.03 seconds
cpu time       0.01 seconds
```

153

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

NOTE: The SAS System used:

```
real time      1:03.75
cpu time       6.71 seconds
```

Sample SAS Job for Example D  
 sample print of OMED (HC-085C) records where OMTYPEX=2

Obs	EVNTIDX	OMTYPEX	PERWT04F
1	500700150300	2 INSULIN	13075.04
2	501080110161	2 INSULIN	18430.40
3	501310130073	2 INSULIN	5163.42
4	501870180072	2 INSULIN	3468.33
5	501970110238	2 INSULIN	2187.34
6	501970110454	2 INSULIN	2187.34
7	502530110012	2 INSULIN	3273.35
8	502690200024	2 INSULIN	10510.90
9	502690200113	2 INSULIN	10510.90
10	502690200233	2 INSULIN	10510.90
11	503170120154	2 INSULIN	13931.14
12	503170121013	2 INSULIN	13931.14
13	503410180024	2 INSULIN	8126.48
14	503410180586	2 INSULIN	8126.48
15	503660150374	2 INSULIN	23221.14
16	503660150398	2 INSULIN	23221.14
17	503990290017	2 INSULIN	4825.86
18	504400260201	2 INSULIN	4159.47
19	504610440051	2 INSULIN	3598.28
20	504980110161	2 INSULIN	11916.39
21	505580280033	2 INSULIN	4117.42
22	506420190015	2 INSULIN	4223.47
23	506430140144	2 INSULIN	3912.15
24	506430140548	2 INSULIN	3912.15
25	506510110154	2 INSULIN	4754.90
26	506510110483	2 INSULIN	4754.90
27	506510110750	2 INSULIN	4754.90
28	507030240050	2 INSULIN	2804.13
29	508170140168	2 INSULIN	26666.52
30	508190110291	2 INSULIN	5580.12
31	508190110626	2 INSULIN	5580.12
32	508340150046	2 INSULIN	11959.31
33	508340150128	2 INSULIN	11959.31
34	509560340032	2 INSULIN	9519.80
35	509630150030	2 INSULIN	14901.34
36	509900180151	2 INSULIN	1461.32
37	509900180264	2 INSULIN	1461.32
38	510300200053	2 INSULIN	8222.21
39	510300200337	2 INSULIN	8222.21
40	510300200755	2 INSULIN	8222.21
41	510750220064	2 INSULIN	5016.14
42	510750220235	2 INSULIN	5016.14
43	512580110025	2 INSULIN	19642.33
44	513230190049	2 INSULIN	14134.78
45	513230190087	2 INSULIN	14134.78
46	513410200067	2 INSULIN	11319.22
47	513410200283	2 INSULIN	11319.22
48	513410201111	2 INSULIN	11319.22
49	514550150013	2 INSULIN	3681.44
50	514770130079	2 INSULIN	6216.68
51	515660240064	2 INSULIN	9037.21
52	515660240266	2 INSULIN	9037.21
53	516110150030	2 INSULIN	1670.71

Sample SAS Job for Example D  
 sample print of OMED (HC-085C) records where OMTYPEX=2

Obs	EVNTIDX	OMTYPEX	PERWT04F
54	516460240056	2 INSULIN	4718.72
55	516460240114	2 INSULIN	4718.72
56	516710230163	2 INSULIN	11757.18
57	517300230188	2 INSULIN	13334.03
58	518070470242	2 INSULIN	5963.44
59	518860190081	2 INSULIN	21968.89
60	518860190252	2 INSULIN	21968.89
61	518860190889	2 INSULIN	21968.89
62	519610160020	2 INSULIN	9370.18
63	519610160102	2 INSULIN	9370.18
64	520060210199	2 INSULIN	6039.12
65	520800210446	2 INSULIN	10524.68
66	521130140083	2 INSULIN	8213.66
67	521350120033	2 INSULIN	6483.53
68	521350120280	2 INSULIN	6483.53
69	521710240102	2 INSULIN	5918.06
70	521940180111	2 INSULIN	5456.91
71	521940180611	2 INSULIN	5456.91
72	522090160029	2 INSULIN	9805.65
73	522090160207	2 INSULIN	9805.65
74	522090160365	2 INSULIN	9805.65
75	522440190135	2 INSULIN	9234.98
76	522460130029	2 INSULIN	4023.71
77	522720240030	2 INSULIN	12938.34
78	522720240369	2 INSULIN	12938.34
79	522720240496	2 INSULIN	12938.34
80	523100200036	2 INSULIN	12375.90
81	523370220762	2 INSULIN	19824.93
82	523820190032	2 INSULIN	10314.33
83	524020240182	2 INSULIN	11081.75
84	524130150015	2 INSULIN	7017.68
85	524130150053	2 INSULIN	7017.68
86	524390120131	2 INSULIN	7209.98
87	524390120237	2 INSULIN	7209.98
88	524680260105	2 INSULIN	10436.37
89	524680260352	2 INSULIN	10436.37
90	524680260578	2 INSULIN	10436.37
91	525360230067	2 INSULIN	4338.87
92	527320181514	2 INSULIN	9054.18
93	527370190026	2 INSULIN	8038.61
94	527660110033	2 INSULIN	13661.81
95	527660110235	2 INSULIN	13661.81
96	527660110475	2 INSULIN	13661.81
97	528050260196	2 INSULIN	1791.34
98	529470140127	2 INSULIN	10531.71
99	529470140374	2 INSULIN	10531.71
100	530840140130	2 INSULIN	4915.79



Sample SAS Job for Example D

sample print of Rx+event link file records (HC-85IF2) - sorted by evtidx

EVNTIDX	LINKIDX	EVENTYPE
500020110010	500020110130	1 MVIS
500020110027	500020110147	1 MVIS
500020110058	500020110154	1 MVIS
500020110065	500020110147	1 MVIS
500020150016	500020150023	1 MVIS
	500020150030	1 MVIS
500020150054	500020150143	1 MVIS
	500020150150	1 MVIS
	500020150167	1 MVIS
500020150085	500020150174	1 MVIS
	500020150181	1 MVIS
500020150105	500020150181	1 MVIS
500020150129	500020150174	1 MVIS
	500020150198	1 MVIS
	500020150201	1 MVIS
500020150225	500020150263	1 MVIS
	500020150270	1 MVIS
	500020150287	1 MVIS
500020150256	500020150307	4 STAZ
	500020150314	4 STAZ
500020150294	500020150321	1 MVIS
500020390016	500020390054	1 MVIS
500020390023	500020390061	1 MVIS
	500020390078	1 MVIS
	500020390085	1 MVIS
500020390129	500020390150	1 MVIS
	500020390167	1 MVIS
500020390143	500020390167	1 MVIS
500020390201	500020390256	1 MVIS
500020390218	500020390256	1 MVIS
500030180016	500030180078	1 MVIS

Sample SAS Job for Example D

sample print of Rx+event link file records (HC-85IF2) - sorted by evtidx

EVNTIDX	LINKIDX	EVENTYPE
500030180023	500030180085	1 MVIS
500030180061	500030180092	1 MVIS
500030180174	500030180198	1 MVIS
500030180181	500030180201	1 MVIS
500030180287	500030180307	1 MVIS
500030250078	500030250085	1 MVIS
	500030250092	1 MVIS
500050180027	500050180034	1 MVIS
	500050180041	1 MVIS
500060110012	500060110098	1 MVIS
	500060110101	1 MVIS
	500060110118	1 MVIS
	500060110125	1 MVIS
500060110067	500060110132	1 MVIS
500060110245	500060110416	1 MVIS
500070130218	500070130232	1 MVIS
	500070130249	1 MVIS
500070200016	500070200085	1 MVIS
	500070200092	1 MVIS
	500070200105	1 MVIS
500070200078	500070200112	1 MVIS
500080130048	500080130106	1 MVIS
500080130055	500080130113	1 MVIS
500080130079	500080130120	5 DVIS
	500080130137	5 DVIS
500100260034	500100260161	1 MVIS
	500100260178	1 MVIS
	500100260185	1 MVIS
	500100260192	1 MVIS
	500100260205	1 MVIS
	500100260212	1 MVIS
	500100260229	1 MVIS
	500100260236	1 MVIS
	500100260243	1 MVIS

Sample SAS Job for Example D  
 sample print of Rx+event link file records (HC-85IF2) - sorted by evtidx

EVNTIDX	LINKIDX	EVENTYPE
500100260034	500100260250	1 MVIS
500110200020	500110200037	3 EROM
500120260111	500120260166	5 DVIS
500130170015	500130170060	5 DVIS
500130170022	500130170060	5 DVIS
500130170077	500130170128	5 DVIS
500130170084	500130170128	5 DVIS
500130170091	500130170128	5 DVIS
500130170111	500130170135	2 OPAT
500130170142	500130170180	5 DVIS
500130170159	500130170180	5 DVIS
500130170173	500130170197	1 MVIS
500130240039	500130240046	1 MVIS
500130240060	500130240084	1 MVIS
500130240077	500130240091	1 MVIS
500140150029	500140150245	1 MVIS
500140150194	500140150252	1 MVIS
500140220012	500140220043	1 MVIS
500140220067	500140220098	1 MVIS
500150220024	500150220048	1 MVIS
500150530024	500150530048	4 STAZ
500190190015	500190190046	1 MVIS
	500190190053	1 MVIS
	500190190060	1 MVIS
500190190022	500190190053	3 EROM
	500190190077	3 EROM
	500190190084	3 EROM
	500190190091	3 EROM

Sample SAS Job for Example D

sample print of Rx+event link file records (HC-85IF2) - sorted by evtidx

EVNTIDX	LINKIDX	EVENTYPE
500190190039	500190190046	2 OPAT
	500190190053	2 OPAT
	500190190084	2 OPAT
500190190104	500190190111	1 MVIS
	500190190128	1 MVIS
500190260015	500190260022	1 MVIS
500190260053	500190260060	1 MVIS
	500190260077	1 MVIS
	500190260084	1 MVIS
500190330022	500190330039	1 MVIS
500190400022	500190400039	1 MVIS
	500190400046	1 MVIS
500190590020	500190590044	1 MVIS
500190590037	500190590051	1 MVIS
	500190590068	1 MVIS
	500190590075	1 MVIS
500190590082	500190590126	1 MVIS
	500190590133	1 MVIS
	500190590140	1 MVIS
500190590099	500190590140	1 MVIS
500200110085	500200110136	4 STAZ
500200110294	500200110530	4 STAZ
500240160045	500240160069	1 MVIS
	500240160076	1 MVIS
500240300038	500240300052	3 EROM
500250270018	500250270025	1 MVIS
500250270032	500250270114	1 MVIS
	500250270121	1 MVIS
500260320018	500260320049	1 MVIS
500290130019	500290130146	1 MVIS
	500290130153	1 MVIS
	500290130160	1 MVIS
	500290130177	1 MVIS

Sample SAS Job for Example D

sample print of Rx+event link file records (HC-85IF2) - sorted by evtidx

EVNTIDX	LINKIDX	EVENTYPE
500290130019	500290130184	1 MVIS
500290130191	500290130437	1 MVIS
500290130300	500290130444	1 MVIS
500290200019	500290200095	1 MVIS
	500290200108	1 MVIS
	500290200115	1 MVIS
500290200122	500290200153	1 MVIS
	500290200160	1 MVIS
500290200139	500290200177	1 MVIS
500300170013	500300170037	1 MVIS
500300240013	500300240068	1 MVIS
500330220025	500330220049	1 MVIS
500330460018	500330460032	3 EROM
	500330460049	3 EROM
500340100021	500340100052	1 MVIS
	500340100069	1 MVIS
500340100076	500340100398	1 MVIS
	500340100401	1 MVIS
	500340100418	1 MVIS
	500340100425	1 MVIS
	500340100432	1 MVIS
	500340100449	1 MVIS
500340100305	500340100456	4 STAZ
500340100312	500340100398	4 STAZ

Sample SAS Job for Example D  
 sample print of work.omedrxlk - sorted by evtntidx  
 Rx+event link file records (HC-85IF2) where eventype=6 (omed)

EVNTIDX	LINKIDX	EVENTYPE
500520250140	500520250157	6 OMED
500700150595	500700150608	6 OMED
500790140147	500790140154	6 OMED
500970120169	500970120176	6 OMED
500970120183	500970120190	6 OMED
501080110161	501080110178	6 OMED
501080110192	501080110205	6 OMED
501310130073	501310130080	6 OMED
501310130097	501310130100	6 OMED
501520130123	501520130130	6 OMED
501720140021	501720140038	6 OMED
501720140141	501720140158	6 OMED
501720140312	501720140329	6 OMED
501870180072	501870180089	6 OMED
501870180096	501870180109	6 OMED
501870180349	501870180356	6 OMED
501870490027	501870490034	6 OMED
501870490096	501870490109	6 OMED
501970110238	501970110245	6 OMED
501970110454	501970110461	6 OMED
501970110478	501970110485	6 OMED
502530110012	502530110029	6 OMED
502530110036	502530110043	6 OMED
502690200024	502690200031	6 OMED
502690200048	502690200055	6 OMED

Sample SAS Job for Example D  
 sample print of work.omedrxlk - sorted by evtidx  
 Rx+event link file records (HC-85IF2) where eventype=6 (omed)

EVNTIDX	LINKIDX	EVENTYPE
502690200113	502690200120	6 OMED
502690200137	502690200144	6 OMED
502690200233	502690200240	6 OMED
502690200257	502690200264	6 OMED
502850140211	502850140228	6 OMED
503170120154	503170120161	6 OMED
503170120178	503170120185	6 OMED
503170121013	503170121020	6 OMED
503170121037	503170121044	6 OMED
503220250234	503220250241	6 OMED
503290100376	503290100383	6 OMED
503410180024	503410180031	6 OMED
503410180048	503410180055	6 OMED
503410180295	503410180308	6 OMED
503410180586	503410180593	6 OMED
503410180606	503410180613	6 OMED
503660150374	503660150381	6 OMED
503660150398	503660150401	6 OMED
503990290017	503990290024	6 OMED
503990290031	503990290048	6 OMED
504450280971	504450280988	6 OMED
504600190087	504600190094	6 OMED
504600190138	504600190145	6 OMED
504610130051	504610130068	6 OMED
504610440051	504610440068	6 OMED

Sample SAS Job for Example D  
 sample print of work.omedrxlk - sorted by evtidx  
 Rx+event link file records (HC-85IF2) where eventype=6 (omed)

EVNTIDX	LINKIDX	EVENTYPE
504610440075	504610440082	6 OMED
504610440164	504610440171	6 OMED
504980110041	504980110058	6 OMED
504980110147	504980110154	6 OMED
504980110161	504980110178	6 OMED
505360110073	505360110080	6 OMED
505580280033	505580280040	6 OMED
505580280057	505580280064	6 OMED
505710170055	505710170062	6 OMED
505710170202	505710170219	6 OMED
505710170308	505710170315	6 OMED
506420190015	506420190022	6 OMED
506420190039	506420190046	6 OMED
506430140144	506430140151	6 OMED
506430140548	506430140555	6 OMED
506430140562	506430140579	6 OMED
506480160058	506480160065	6 OMED
506480160212	506480160229	6 OMED
506480160445	506480160452	6 OMED
506510110154	506510110161	6 OMED
506510110178	506510110185	6 OMED
506510110483	506510110490	6 OMED
506510110503	506510110510	6 OMED
506510110750	506510110767	6 OMED
506510110774	506510110781	6 OMED



Sample SAS Job for Example D  
sample print of work.omedrxlk - sorted by evtidx  
Rx+event link file records (HC-85IF2) where eventype=6 (omed)

EVNTIDX	LINKIDX	EVENTYPE
506510280243	506510280250	6 OMED
506600190117	506600190124	6 OMED
506640250068	506640250075	6 OMED
506700230156	506700230163	6 OMED
506870340448	506870340455	6 OMED
506870340462	506870340479	6 OMED
506870341085	506870341092	6 OMED
506870341105	506870341112	6 OMED
506950160148	506950160155	6 OMED
507120160211	507120160228	6 OMED
507310100310	507310100327	6 OMED
507310100581	507310100598	6 OMED
507480290250	507480290267	6 OMED
507500100621	507500100638	6 OMED
507680190030	507680190047	6 OMED
508060250060	508060250077	6 OMED
508190110291	508190110304	6 OMED
508190110311	508190110328	6 OMED
508190110626	508190110633	6 OMED
508190110640	508190110657	6 OMED
508190110917	508190110924	6 OMED
508320210012	508320210029	6 OMED
508320210238	508320210245	6 OMED
508320210372	508320210389	6 OMED
508340150046	508340150053	6 OMED

Sample SAS Job for Example D  
 sample print of work.omedrxlk - sorted by evtidx  
 Rx+event link file records (HC-85IF2) where eventype=6 (omed)

EVNTIDX	LINKIDX	EVENTYPE
508340150128	508340150135	6 OMED
508340150142	508340150159	6 OMED
508340150320	508340150337	6 OMED
509070180028	509070180035	6 OMED
509360280135	509360280142	6 OMED
509360280173	509360280180	6 OMED
509560340032	509560340049	6 OMED
509560340056	509560340063	6 OMED
509630150030	509630150047	6 OMED
509630220218	509630220225	6 OMED
509810190031	509810190048	6 OMED
509810190233	509810190240	6 OMED
509900180151	509900180168	6 OMED
509900180175	509900180182	6 OMED
509900180264	509900180271	6 OMED
509900180288	509900180295	6 OMED
510160140220	510160140237	6 OMED
510160210333	510160210340	6 OMED
510230110025	510230110032	6 OMED
510300200053	510300200060	6 OMED

Sample SAS Job for Example D  
 sample print of work.pmedids - sorted by evntidx  
 work.rxlk records for omed events for insulin

EVNTIDX	EVENTYPE	LINKIDX
501080110161	6 OMED	501080110178
501310130073	6 OMED	501310130080
501870180072	6 OMED	501870180089
501970110238	6 OMED	501970110245
501970110454	6 OMED	501970110461
502530110012	6 OMED	502530110029
502690200024	6 OMED	502690200031
502690200113	6 OMED	502690200120
502690200233	6 OMED	502690200240
503170120154	6 OMED	503170120161
503170121013	6 OMED	503170121020
503410180024	6 OMED	503410180031
503410180586	6 OMED	503410180593
503660150374	6 OMED	503660150381
503660150398	6 OMED	503660150401
503990290017	6 OMED	503990290024
504610440051	6 OMED	504610440068
504980110161	6 OMED	504980110178
505580280033	6 OMED	505580280040
506420190015	6 OMED	506420190022
506430140144	6 OMED	506430140151
506430140548	6 OMED	506430140555
506510110154	6 OMED	506510110161
506510110483	6 OMED	506510110490
506510110750	6 OMED	506510110767

Sample SAS Job for Example D  
 sample print of work.pmedids - sorted by evtidx  
 work.rxlk records for omed events for insulin

EVNTIDX	EVENTYPE	LINKIDX
508190110291	6 OMED	508190110304
508190110626	6 OMED	508190110633
508340150046	6 OMED	508340150053
508340150128	6 OMED	508340150135
509560340032	6 OMED	509560340049
509630150030	6 OMED	509630150047
509900180151	6 OMED	509900180168
509900180264	6 OMED	509900180271
510300200053	6 OMED	510300200060
510300200337	6 OMED	510300200344
510300200755	6 OMED	510300200762
510750220064	6 OMED	510750220071
510750220235	6 OMED	510750220242
512580110025	6 OMED	512580110032
513230190049	6 OMED	513230190056
513230190087	6 OMED	513230190094
513410200067	6 OMED	513410200074
513410200283	6 OMED	513410200290
513410201111	6 OMED	513410201128
514550150013	6 OMED	514550150020
514770130079	6 OMED	514770130086
515660240064	6 OMED	515660240595
515660240266	6 OMED	515660240273
516460240056	6 OMED	516460240063
516460240114	6 OMED	516460240121

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

Obs	EVNTIDX	EVENTYPE	LINKIDX
1	501080110161	6 OMED	501080110178
2	501310130073	6 OMED	501310130080
3	501870180072	6 OMED	501870180089
4	501970110238	6 OMED	501970110245
5	501970110454	6 OMED	501970110461
6	502530110012	6 OMED	502530110029
7	502690200024	6 OMED	502690200031
8	502690200113	6 OMED	502690200120
9	502690200233	6 OMED	502690200240
10	503170120154	6 OMED	503170120161
11	503170121013	6 OMED	503170121020
12	503410180024	6 OMED	503410180031
13	503410180586	6 OMED	503410180593
14	503660150374	6 OMED	503660150381
15	503660150398	6 OMED	503660150401
16	503990290017	6 OMED	503990290024
17	504610440051	6 OMED	504610440068
18	504980110161	6 OMED	504980110178
19	505580280033	6 OMED	505580280040
20	506420190015	6 OMED	506420190022
21	506430140144	6 OMED	506430140151
22	506430140548	6 OMED	506430140555
23	506510110154	6 OMED	506510110161
24	506510110483	6 OMED	506510110490
25	506510110750	6 OMED	506510110767
26	508190110291	6 OMED	508190110304
27	508190110626	6 OMED	508190110633
28	508340150046	6 OMED	508340150053
29	508340150128	6 OMED	508340150135
30	509560340032	6 OMED	509560340049
31	509630150030	6 OMED	509630150047
32	509900180151	6 OMED	509900180168
33	509900180264	6 OMED	509900180271
34	510300200053	6 OMED	510300200060
35	510300200337	6 OMED	510300200344
36	510300200755	6 OMED	510300200762
37	510750220064	6 OMED	510750220071
38	510750220235	6 OMED	510750220242
39	512580110025	6 OMED	512580110032
40	513230190049	6 OMED	513230190056
41	513230190087	6 OMED	513230190094
42	513410200067	6 OMED	513410200074
43	513410200283	6 OMED	513410200290
44	513410201111	6 OMED	513410201128
45	514550150013	6 OMED	514550150020
46	514770130079	6 OMED	514770130086
47	515660240266	6 OMED	515660240273
48	515660240064	6 OMED	515660240095
49	516460240056	6 OMED	516460240063
50	516460240114	6 OMED	516460240121

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

Obs	LINKIDX
1	501080110178
2	501310130080
3	501870180089
4	501970110245
5	501970110461
6	502530110029
7	502690200031
8	502690200120
9	502690200240
10	503170120161
11	503170121020
12	503410180031
13	503410180593
14	503660150381
15	503660150401
16	503990290024
17	504610440068
18	504980110178
19	505580280040
20	506420190022
21	506430140151
22	506430140555
23	506510110161
24	506510110490
25	506510110767
26	508190110304
27	508190110633
28	508340150053
29	508340150135
30	509560340049
31	509630150047
32	509900180168
33	509900180271
34	510300200060
35	510300200344
36	510300200762
37	510750220071
38	510750220242
39	512580110032
40	513230190056
41	513230190094
42	513410200074
43	513410200290
44	513410201128
45	514550150020
46	514770130086
47	515660240273
48	515660240595
49	516460240063
50	516460240121

Sample SAS Job for Example D  
sample print of work.pmeds

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
501080110178	501080110178001	HUMULIN N	91.50	18430.395108
	501080110178002	HUMULIN N	91.50	18430.395108
	501080110178003	HUMULIN N	91.50	18430.395108
501310130080	501310130080001	INSULIN	83.67	5163.421124
	501310130080002	INSULIN	83.67	5163.421124
501870180089	501870180089001	INSULIN	83.67	3468.326078
	501870180089002	INSULIN	83.67	3468.326078
	501870180089003	INSULIN	83.67	3468.326078
501970110245	501970110245001	INSULIN NOVOLIN NOVO DE	80.58	2187.339310
	501970110245002	INSULIN NOVOLIN NOVO DE	80.58	2187.339310
	501970110245003	INSULIN NOVOLIN NOVO DE	80.58	2187.339310
501970110461	501970110461001	INSULIN NOVOLIN NOVO DE	80.58	2187.339310
	501970110461002	INSULIN NOVOLIN NOVO DE	80.58	2187.339310
502530110029	502530110029001	INSULIN	83.67	3273.354593
	502530110029002	INSULIN	83.67	3273.354593
	502530110029003	INSULIN	83.67	3273.354593
502690200031	502690200031001	INSULIN	83.67	10510.898613
502690200120	502690200120001	HUMULIN R (VIAL)	26.45	10510.898613
502690200240	502690200240001	HUMULIN R (VIAL)	27.75	10510.898613
	502690200240002	HUMULIN R (VIAL)	27.75	10510.898613
	502690200240003	HUMULIN R (VIAL)	27.75	10510.898613
	502690200240004	HUMULIN R (VIAL)	27.75	10510.898613
	502690200240005	HUMULIN R (VIAL)	27.75	10510.898613
503170120161	503170120161001	LANTUS	121.70	13931.140208
503170121020	503170121020001	HUMALOG	93.86	13931.140208
	503170121020002	HUMALOG	93.86	13931.140208
	503170121020003	HUMALOG	93.86	13931.140208
	503170121020004	HUMALOG	93.86	13931.140208
503410180031	503410180031001	HUMULIN 70/30 (VIAL)	55.09	8126.477197
503410180593	503410180593001	HUMULIN 70/30 (VIAL)	57.94	8126.477197
	503410180593002	HUMULIN 70/30 (VIAL)	57.94	8126.477197
	503410180593003	HUMULIN 70/30 (VIAL)	57.94	8126.477197
	503410180593004	HUMULIN 70/30 (VIAL)	57.94	8126.477197
	503410180593005	HUMULIN 70/30 (VIAL)	57.94	8126.477197
503660150381	503660150381001	INSULIN	83.67	23221.138824
	503660150381002	INSULIN	83.67	23221.138824

Sample SAS Job for Example D  
sample print of work.pmeds

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
503660150381	503660150381003	INSULIN	83.67	23221.138824
503660150401	503660150401001	INSULIN	83.67	23221.138824
	503660150401002	INSULIN	83.67	23221.138824
	503660150401003	INSULIN	83.67	23221.138824
503990290024	503990290024001	INSULIN	83.67	4825.858715
504610440068	504610440068001	INSULIN	30.76	3598.275760
504980110178	504980110178001	INSULIN	83.67	11916.390791
505580280040	505580280040001	INSULIN	83.67	4117.416060
506420190022	506420190022001	HUMULIN N	30.76	4223.466629
506430140151	506430140151001	HUMALOG	62.17	3912.151905
	506430140151002	HUMALOG	62.17	3912.151905
	506430140151003	HUMALOG	62.17	3912.151905
506430140555	506430140555001	LANTUS	53.73	3912.151905
	506430140555002	LANTUS	53.73	3912.151905
	506430140555003	LANTUS	58.44	3912.151905
506510110161	506510110161001	INSULIN	30.76	4754.895939
	506510110161002	INSULIN	30.76	4754.895939
	506510110161003	INSULIN	30.76	4754.895939
506510110490	506510110490001	INSULIN	30.76	4754.895939
	506510110490002	INSULIN	30.76	4754.895939
	506510110490003	INSULIN	30.76	4754.895939
	506510110490004	INSULIN	30.76	4754.895939
506510110767	506510110767001	INSULIN	30.76	4754.895939
	506510110767002	INSULIN	30.76	4754.895939
508190110304	508190110304001	HUMALOG MIX 75/25	139.92	5580.122341
	508190110304002	HUMALOG MIX 75/25	139.92	5580.122341
	508190110304003	HUMALOG MIX 75/25	139.92	5580.122341
	508190110304004	HUMALOG MIX 75/25	139.92	5580.122341
	508190110304005	HUMALOG MIX 75/25	139.92	5580.122341
	508190110304006	HUMALOG MIX 75/25	139.92	5580.122341
508190110633	508190110633001	INSULIN	30.76	5580.122341
	508190110633002	INSULIN	30.76	5580.122341
508340150053	508340150053001	LANTUS	105.45	11959.314156
508340150135	508340150135001	INSULIN	83.67	11959.314156



Sample SAS Job for Example D  
 sample print of work.pmeds

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
508340150135	508340150135002	INSULIN	83.67	11959.314156
509560340049	509560340049001	INSULIN	83.67	9519.802194
509630150047	509630150047001	NOVOLIN N	91.50	14901.342788
	509630150047002	NOVOLIN N	91.50	14901.342788
509900180168	509900180168001	INSULIN	83.67	1461.320448
	509900180168002	INSULIN	83.67	1461.320448
	509900180168003	INSULIN	83.67	1461.320448
	509900180168004	INSULIN	83.67	1461.320448
	509900180168005	INSULIN	83.67	1461.320448
	509900180168006	INSULIN	83.67	1461.320448
	509900180168007	INSULIN	83.67	1461.320448
	509900180168008	INSULIN	83.67	1461.320448
	509900180168009	INSULIN	83.67	1461.320448
	509900180168010	INSULIN	83.67	1461.320448
509900180271	509900180271001	INSULIN	83.67	1461.320448
	509900180271002	INSULIN	83.67	1461.320448
	509900180271003	INSULIN	83.67	1461.320448
	509900180271004	INSULIN	83.67	1461.320448
	509900180271005	INSULIN	83.67	1461.320448
	509900180271006	INSULIN	83.67	1461.320448
	509900180271007	INSULIN	83.67	1461.320448
	509900180271008	INSULIN	83.67	1461.320448
	509900180271009	INSULIN	83.67	1461.320448
	509900180271010	INSULIN	83.67	1461.320448
510300200060	510300200060001	LANTUS	113.03	8222.207028
	510300200060002	LANTUS	58.27	8222.207028
	510300200060003	LANTUS	58.27	8222.207028
510300200344	510300200344001	LANTUS	113.03	8222.207028
	510300200344002	LANTUS	113.03	8222.207028
	510300200344003	LANTUS	113.03	8222.207028
	510300200344004	LANTUS	113.03	8222.207028
	510300200344005	LANTUS	113.03	8222.207028
	510300200344006	LANTUS	113.03	8222.207028
510300200762	510300200762001	LANTUS	122.89	8222.207028
	510300200762002	LANTUS	113.03	8222.207028
	510300200762003	LANTUS	122.89	8222.207028
	510300200762004	LANTUS	122.89	8222.207028
	510300200762005	LANTUS	113.03	8222.207028
	510300200762006	LANTUS	122.89	8222.207028
	510300200762007	LANTUS	122.89	8222.207028
510750220071	510750220071001	HUMULIN N PEN (PREFILLED DISPOSABLE)	96.61	5016.143983

Sample SAS Job for Example D  
sample print of work.pmeds

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
510750220071	510750220071002	HUMULIN N PEN (PREFILLED DISPOSABLE)	102.49	5016.143983
510750220242	510750220242001	HUMULIN N PEN (PREFILLED DISPOSABLE)	106.69	5016.143983
	510750220242002	HUMULIN N PEN (PREFILLED DISPOSABLE)	96.61	5016.143983
	510750220242003	HUMULIN N PEN (PREFILLED DISPOSABLE)	96.61	5016.143983
	510750220242004	HUMULIN N PEN (PREFILLED DISPOSABLE)	96.61	5016.143983
	510750220242005	HUMULIN N PEN (PREFILLED DISPOSABLE)	106.69	5016.143983
512580110032	512580110032001	INSULIN HUMAN NPH	80.58	19642.332695
513230190056	513230190056001	INSULIN	83.67	14134.776807
513230190094	513230190094001	INSULIN	83.67	14134.776807
513410200074	513410200074001	HUMULIN N	61.00	11319.218855
513410200290	513410200290001	HUMULIN N	53.60	11319.218855
	513410200290002	HUMULIN N	53.60	11319.218855
	513410200290003	HUMULIN N	53.60	11319.218855
	513410200290004	HUMULIN N	53.60	11319.218855
	513410200290005	HUMULIN N	57.99	11319.218855
	513410200290006	HUMULIN N	57.99	11319.218855
513410201128	513410201128001	HUMULIN N	57.99	11319.218855
	513410201128002	HUMULIN N	57.99	11319.218855
514550150020	514550150020001	INSULIN	83.67	3681.444088
	514550150020002	INSULIN	83.67	3681.444088
514770130086	514770130086001	INSULIN	30.76	6216.676135
515660240273	515660240273001	INSULIN GLARGINE	38.69	9037.210537
515660240595	515660240595001	INSULIN GLARGINE	6.09	9037.210537
	515660240595002	INSULIN GLARGINE	6.09	9037.210537
	515660240595003	INSULIN GLARGINE	6.09	9037.210537
516460240063	516460240063001	INSULIN	83.67	4718.719456
	516460240063002	INSULIN	83.67	4718.719456
	516460240063003	INSULIN	83.67	4718.719456
516460240121	516460240121001	INSULIN	83.67	4718.719456
	516460240121002	INSULIN	83.67	4718.719456
	516460240121003	INSULIN	83.67	4718.719456
516710230170	516710230170001	LANTUS	54.58	11757.181617
	516710230170002	LANTUS	54.58	11757.181617
	516710230170003	LANTUS	54.58	11757.181617
	516710230170004	LANTUS	54.58	11757.181617

Sample SAS Job for Example D  
 sample print of work.pmeds  
 PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
516710230170	516710230170005	LANTUS	54.58	11757.181617
517300230195	517300230195001	INSULIN	83.67	13334.029474
518070470259	518070470259001	HUMULIN N	30.76	5963.437092
	518070470259002	HUMULIN N	30.76	5963.437092
518860190098	518860190098001	INSULIN	83.67	21968.892227
518860190269	518860190269001	INSULIN	83.67	21968.892227
	518860190269002	INSULIN	83.67	21968.892227
518860190896	518860190896001	HUMULIN R	30.76	21968.892227
519610160037	519610160037001	INSULIN	83.67	9370.182095
	519610160037002	INSULIN	83.67	9370.182095
	519610160037003	INSULIN	83.67	9370.182095
519610160119	519610160119001	INSULIN	83.67	9370.182095
	519610160119002	INSULIN	83.67	9370.182095
	519610160119003	INSULIN	83.67	9370.182095
	519610160119004	INSULIN	83.67	9370.182095
	519610160119005	INSULIN	83.67	9370.182095
	519610160119006	INSULIN	83.67	9370.182095
	519610160119007	INSULIN	83.67	9370.182095
	519610160119008	INSULIN	83.67	9370.182095
	519610160119009	INSULIN	83.67	9370.182095
	519610160119010	INSULIN	83.67	9370.182095
520060210202	520060210202001	INSULIN	83.67	6039.122452
	520060210202002	INSULIN	83.67	6039.122452
	520060210202003	INSULIN	83.67	6039.122452
520800210453	520800210453001	INSULIN NOVOLIN	30.29	10524.682402
	520800210453002	INSULIN NOVOLIN	30.29	10524.682402
	520800210453003	INSULIN NOVOLIN	30.29	10524.682402
	520800210453004	INSULIN NOVOLIN	30.29	10524.682402
521130140090	521130140090001	HUMULIN N	30.50	8213.658232
	521130140090002	HUMULIN N	30.50	8213.658232
	521130140090003	HUMULIN N	30.50	8213.658232
521350120040	521350120040001	INSULIN	30.76	6483.531936
	521350120040002	INSULIN	30.76	6483.531936
	521350120040003	INSULIN	30.76	6483.531936
521350120297	521350120297001	INSULIN	30.76	6483.531936
	521350120297002	INSULIN	30.76	6483.531936
	521350120297003	INSULIN	30.76	6483.531936

Sample SAS Job for Example D  
 sample print of work.pmeds

PMED (HC-085A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP04X	PERWT04F
521710240119	521710240119001	INSULIN	83.67	5918.059051
	521710240119002	INSULIN	83.67	5918.059051
	521710240119003	INSULIN	83.67	5918.059051
	521710240119004	INSULIN	83.67	5918.059051
521940180128	521940180128001	HUMULIN 70/30 (VIAL)	79.89	5456.907176
	521940180128002	HUMULIN 70/30 (VIAL)	79.89	5456.907176
	521940180128003	HUMULIN 70/30 (VIAL)	79.89	5456.907176
	521940180128004	HUMULIN 70/30 (VIAL)	79.89	5456.907176
	521940180128005	HUMULIN 70/30 (VIAL)	79.89	5456.907176
521940180628	521940180628001	HUMULIN 70/30 (VIAL)	79.89	5456.907176
	521940180628002	HUMULIN 70/30 (VIAL)	79.89	5456.907176
	521940180628003	HUMULIN 70/30 (VIAL)	79.89	5456.907176
522090160036	522090160036001	INSULIN	83.67	9805.653493
522090160214	522090160214001	INSULIN	83.67	9805.653493
	522090160214002	INSULIN	83.67	9805.653493
	522090160214003	INSULIN	83.67	9805.653493
	522090160214004	INSULIN	83.67	9805.653493

Sample SAS Job for Example D

Total Rx expenditures associated with other medical expenses for insulin

The MEANS Procedure

Analysis Variable : RXXP04X SUM OF PAYMENTS RXSF04X-RXOU04X(IMPUTED)

N	Sum
1778	124276.65

Sample SAS Job for Example D

Total Rx expenditures associated with other medical expenses for insulin

Weighted

The MEANS Procedure

Analysis Variable : RXXP04X SUM OF PAYMENTS RXSF04X-RXOU04X(IMPUTED)

N	Sum
1778	1099947734