

**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 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. (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 EVENTTYPE 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 EVENTTYPE 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)¹

1 Tuberculosis

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

2 Septicemia (except in labor)

0031	0202	0223	0362	0380	0381	03810	03811	03819	0382	0383	03840
03841	03842	03843	03844	03849	0388	0389	0545	7907			

3 Bacterial infection; unspecified site

0200	0208	0209	0218	0219	0228	0229	0230	0231	0232	0233	0238
0239	024	025	0260	0269	0270	0271	0272	0278	0279	0300	0301
0302	0303	0308	0309	0312	0318	0319	03289	0329	0330	0331	0338
0339	0341	0363	03681	03689	0369	037	0392	0393	0394	0398	0399

¹ 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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16	Cancer of liver and intrahepatic bile duct											
1550	1551	1552	2308	V1007								
17	Cancer of pancreas											
1570	1571	1572	1573	1574	1578	1579						
18	Cancer of other GI organs; peritoneum											
1520	1521	1522	1523	1528	1529	1560	1561	1562	1568	1569	1580	
1588	1589	1591	1598	1599	2307	2309	V1000	V1009				
19	Cancer of bronchus; lung											
1622	1623	1624	1625	1628	1629	2312	V1011					
20	Cancer; other respiratory and intrathoracic											
1620	1630	1631	1638	1639	1650	1658	1659	2311	2318	2319	V1012	
V1020	V1022											
21	Cancer of bone and connective tissue											
1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710	1712	
1713	1714	1715	1716	1717	1718	1719						
22	Melanomas of skin											
1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	V1082		
23	Other non-epithelial cancer of skin											
1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	2320	2321	
2322	2323	2324	2325	2326	2327	2328	2329	V1083				
24	Cancer of breast											
1740	1741	1742	1743	1744	1745	1746	1748	1749	1750	1759	2330	
V103												
25	Cancer of uterus											
179	1820	1821	1828	2332	V1042							
26	Cancer of cervix											
1800	1801	1808	1809	2331	7950	V1041						
27	Cancer of ovary											
1830	V1043											

28	Cancer of other female genital organs											
181	1832	1833	1834	1835	1838	1839	1840	1841	1842	1843	1844	
1848	1849	2333	V1040	V1044								
29	Cancer of prostate											
185	2334	V1046										
30	Cancer of testis											
1860	1869	V1047										
31	Cancer of other male genital organs											
1871	1872	1873	1874	1875	1876	1877	1878	1879	2335	2336	V1045	
V1048	V1049											
32	Cancer of bladder											
1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	2337	V1051	
33	Cancer of kidney and renal pelvis											
1890	1891	V1052										
34	Cancer of other urinary organs											
1892	1893	1894	1898	1899	2339	V1050	V1059					
35	Cancer of brain and nervous system											
1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	
1922	1923	1928	1929	V1085	V1086							
36	Cancer of thyroid											
193	V1087											
37	Hodgkin's disease											
20100	20101	20102	20103	20104	20105	20106	20107	20108	20110	20111	20112	
20113	20114	20115	20116	20117	20118	20120	20121	20122	20123	20124	20125	
20126	20127	20128	20140	20141	20142	20143	20144	20145	20146	20147	20148	
20150	20151	20152	20153	20154	20155	20156	20157	20158	20160	20161	20162	
20163	20164	20165	20166	20167	20168	20170	20171	20172	20173	20174	20175	
20176	20177	20178	20190	20191	20192	20193	20194	20195	20196	20197	20198	
V1072												
38	Non-Hodgkin's lymphoma											
20000	20001	20002	20003	20004	20005	20006	20007	20008	20010	20011	20012	
20013	20014	20015	20016	20017	20018	20020	20021	20022	20023	20024	20025	
20026	20027	20028	20080	20081	20082	20083	20084	20085	20086	20087	20088	
20200	20201	20202	20203	20204	20205	20206	20207	20208	20210	20211	20212	
20213	20214	20215	20216	20217	20218	20220	20221	20222	20223	20224	20225	

20226	20227	20228	20280	20281	20282	20283	20284	20285	20286	20287	20288
20290	20291	20292	20293	20294	20295	20296	20297	20298	V1071	V1079	

39 Leukemias

20240	20241	20242	20243	20244	20245	20246	20247	20248	2031	20310	20311
2040	20400	20401	2041	20410	20411	2042	20420	20421	2048	20480	20481
2049	20490	20491	2050	20500	20501	2051	20510	20511	2052	20520	20521
2053	20530	20531	2058	20580	20581	2059	20590	20591	2060	20600	20601
2061	20610	20611	2062	20620	20621	2068	20680	20681	2069	20690	20691
2070	20700	20701	2071	20710	20711	2072	20720	20721	2078	20780	20781
2080	20800	20801	2081	20810	20811	2082	20820	20821	2088	20880	20881
2089	20890	20891	V1060	V1061	V1062	V1063	V1069				

40 Multiple myeloma

2030	20300	20301	2038	20380	20381						
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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 conditions2890 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 conditions3300 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
3872	3878	3879									

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

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									
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103 Pulmonary heart disease

4150	4151	41519	4160	4161	4168	4169	4170	4171	4178	4179	
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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									
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108 Congestive heart failure; nonhypertensive

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

109	Acute cerebrovascular disease											
430	431	4320	4321	4329	43301	43311	43321	43331	43381	43391	4340	
43400	43401	4341	43410	43411	4349	43490	43491	436				
110	Occlusion or stenosis of precerebral arteries											
4330	43300	4331	43310	4332	43320	4333	43330	4338	43380	4339	43390	
111	Other and ill-defined cerebrovascular disease											
4370	4371	4373	4374	4375	4376	4377	4378	4379				
112	Transient cerebral ischemia											
4350	4351	4352	4353	4358	4359							
113	Late effects of cerebrovascular disease											
438	4380	43810	43811	43812	43819	43820	43821	43822	43830	43831	43832	
43840	43841	43842	43850	43851	43852	43853	4386	4387	43881	43882	43883	
43884	43885	43889	4389									
114	Peripheral and visceral atherosclerosis											
4400	4401	4402	44020	44021	44022	44023	44029	4408	4409	4439	5570	
5571	5579											
115	Aortic; peripheral; and visceral artery aneurysms											
4410	44100	44101	44102	44103	4411	4412	4413	4414	4415	4416	4417	
4419	4420	4421	4422	4423	44281	44282	44283	44284	44289	4429	44321	
44322	44323	44324	44329									
116	Aortic and peripheral arterial embolism or thrombosis											
4440	4441	44421	44422	44481	44489	4449	44501	44502	44581	44589		
117	Other circulatory disease											
42682	4430	4431	44381	44382	44389	4460	4461	4462	44620	44621	44629	
4463	4464	4465	4466	4467	4470	4471	4472	4473	4474	4475	4476	
4478	4479	4480	4481	4489	4580	4581	4588	4589	4590	45989	4599	
7859	79430	79431	79439	7962	V125	V1250	V1259	V151	V421	V432	V4321	
V4322	V434	V717										
118	Phlebitis; thrombophlebitis and thromboembolism											
4510	45111	45119	4512	45181	45182	45183	45184	45189	4519	452	4530	
4531	4532	4533	45340	45341	45342	4538	4539	V1251	V1252			
119	Varicose veins of lower extremity											
4540	4541	4542	4548	4549								

120	Hemorrhoids										
4550	4551	4552	4553	4554	4555	4556	4557	4558	4559		
121	Other diseases of veins and lymphatics										
4563	4564	4565	4566	4568	4570	4571	4572	4578	4579	4591	45910
45911	45912	45913	45919	4592	45930	45931	45932	45933	45939	45981	
122	Pneumonia (except that caused by tuberculosis or sexually transmitted disease)										
00322	0203	0204	0205	0212	0221	0310	0391	0521	0551	0730	0830
1124	1140	1144	1145	11505	11515	11595	1304	1363	4800	4801	4802
4803	4808	4809	481	4820	4821	4822	4823	48230	48231	48232	48239
4824	48240	48241	48249	4828	48281	48282	48283	48284	48289	4829	483
4830	4831	4838	4841	4843	4845	4846	4847	4848	485	486	5130
5171											
123	Influenza										
4870	4871	4878									
124	Acute and chronic tonsillitis										
463	4740	47400	47401	47402	47410	47411	47412	4742	4748	4749	475
125	Acute bronchitis										
4660	4661	46611	46619								
126	Other upper respiratory infections										
0320	0321	0322	0323	0340	460	4610	4611	4612	4613	4618	4619
462	4640	46400	46401	46410	46411	46420	46421	46430	46431	4644	46450
46451	4650	4658	4659	4730	4731	4732	4733	4738	4739		
127	Chronic obstructive pulmonary disease and bronchiectasis										
490	4910	4911	4912	49120	49121	49122	4918	4919	4920	4928	494
4940	4941	496									
128	Asthma										
49300	49301	49302	49310	49311	49312	49320	49321	49322	49381	49382	49390
49391	49392										
129	Aspiration pneumonitis; food/vomitus										
5070											
130	Pleurisy; pneumothorax; pulmonary collapse										
5100	5109	5110	5111	5118	5119	5120	5128	5180	5181	5182	

131 Respiratory failure; insufficiency; arrest (adult)

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

132 Lung disease due to external agents

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

133 Other lower respiratory disease

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

134 Other upper respiratory disease

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

135 Intestinal infection

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

136 Disorders of teeth and jaw

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

137	Diseases of mouth; excluding dental											
5270	5271	5272	5273	5274	5275	5276	5277	5278	5279	5280	5281	
5282	5283	5284	5285	5286	5287	52871	52872	52879	5288	5289	5290	
5291	5292	5293	5294	5295	5296	5298	5299	7924				
138	Esophageal disorders											
4561	45621	5300	5301	53010	53011	53012	53019	5302	53020	53021	5303	
5304	5305	5306	5308	53081	53083	53084	53085	53089	5309			
139	Gastroduodenal ulcer (except hemorrhage)											
53110	53111	53130	53131	53150	53151	53170	53171	53190	53191	53210	53211	
53230	53231	53250	53251	53270	53271	53290	53291	53310	53311	53330	53331	
53350	53351	53370	53371	53390	53391	53410	53411	53430	53431	53450	53451	
53470	53471	53490	53491	V1271								
140	Gastritis and duodenitis											
5350	53500	53501	5351	53510	53511	5352	53520	53521	5353	53530	53531	
5354	53540	53541	5355	53550	53551	5356	53560	53561				
141	Other disorders of stomach and duodenum											
5360	5361	5362	5363	5368	5369	5370	5371	5372	5373	5374	5375	
5376	53781	53782	53783	53784	53789	5379						
142	Appendicitis and other appendiceal conditions											
5400	5401	5409	541	542	5430	5439						
143	Abdominal hernia											
55000	55001	55002	55003	55010	55011	55012	55013	55090	55091	55092	55093	
55100	55101	55102	55103	5511	55120	55121	55129	5513	5518	5519	55200	
55201	55202	55203	5521	55220	55221	55229	5523	5528	5529	55300	55301	
55302	55303	5531	55320	55321	55329	5533	5538	5539				
144	Regional enteritis and ulcerative colitis											
5550	5551	5552	5559	556	5560	5561	5562	5563	5564	5565	5566	
5568	5569											
145	Intestinal obstruction without hernia											
5600	5601	5602	56030	56031	56039	56081	56089	5609				
146	Diverticulosis and diverticulitis											
56200	56201	56202	56203	56210	56211	56212	56213					
147	Anal and rectal conditions											
5646	5650	5651	566	5690	5691	5692	56941	56942	56949			

148 Peritonitis and intestinal abscess

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

149 Biliary tract disease

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

150 Liver disease; alcohol-related

5710	5711	5712	5713								
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151 Other liver diseases

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

152 Pancreatic disorders (not diabetes)

5770	5771	5772	5778	5779	5794						
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153 Gastrointestinal hemorrhage

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

154 Noninfectious gastroenteritis

5589											
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155 Other gastrointestinal disorders

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

156 Nephritis; nephrosis; renal sclerosis

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

157 Acute and unspecified renal failure

5845	5846	5847	5848	5849	586						
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158	Chronic renal failure											
585 V5631	5853 V5632	5854 V568	5855	5856	5859	7925	V420	V451	V560	V561	V562	
159	Urinary tract infections											
03284 5952 59801	59000 5953 5990	59001 5954	59010 59581	59011 59582	5902 59589	5903 5959	59080 5970	59081 59780	5909 59781	5950 59789	5951 59800	
160	Calculus of urinary tract											
5920	5921	5929	5940	5941	5942	5948	5949	7880	V1301			
161	Other diseases of kidney and ureters											
5851 5930 59381	5852 5931 59382	5880 5932	5881 5933	5888 5934	58881 5935	58889 5936	5889 5937	5890 59370	5891 59371	5899 59372	591 59373	
162	Other diseases of bladder and urethra											
5960 5966 5995	5961 5967 59981	5962 5968 59982	5963 5969 59983	5964 5981 59984	5965 5982	59651 5988	59652 5989	59653 5991	59654 5992	59655 5993	59659 5994	
163	Genitourinary symptoms and ill-defined conditions											
5996 7883 78841 7910 V1303 V536	59960 78830 78842 7911 V1309 V555	59969 78831 78843 7912 V417 V556	5997 78832 7885 7913 V435	5998 78834 7886 7914 V445	59989 78835 78861 7917 V4450	5999 78836 78862 7919 V4451	7881 78837 78863 7935 V4452	7882 78838 78869 7944 V4459	78820 78839 7887 V130 V446	78821 7884 7888 V1300 V474	78829 7884 7889 V1302 V475	
164	Hyperplasia of prostate											
600 60090	6000 60091	60000	60001	6001	60010	60011	6002	60020	60021	6003	6009	
165	Inflammatory conditions of male genital organs											
6010 6071	6011 6072	6012 6080	6013 6084	6014	6018	6019	6031	6040	60490	60491	60499	
166	Other male genital disorders											
6020 6068 6082	6021 6069 6083	6022 6070 60881	6023 6073 60882	6028 60781 60883	6029 60782 60884	6030 60783 60885	6038 60784 60886	6039 60785 60887	605 60789 60889	6060 6079 6089	6061 6081 7922	
167	Nonmalignant breast conditions											
6100 6115	6101 6116	6102 61171	6103 61172	6104 61179	6108 6118	6109 6119	6110 7938	6111 79380	6112 79381	6113 79389	6114	

168	Inflammatory diseases of female pelvic organs											
6140	6141	6142	6143	6144	6145	6146	6147	6148	6149	6150	6151	
6159	6160	61610	61611	6162	6163	6164	61650	61651	6168	6169		
169	Endometriosis											
6170	6171	6172	6173	6174	6175	6176	6178	6179				
170	Prolapse of female genital organs											
6180	61800	61801	61802	61803	61804	61805	61809	6181	6182	6183	6184	
6185	6186	6187	6188	61881	61882	61883	61889	6189				
171	Menstrual disorders											
6253	6260	6261	6262	6263	6264	6265	6266	6268	6269			
172	Ovarian cyst											
6200	6201	6202										
173	Menopausal disorders											
25631	25639	6270	6271	6272	6273	6274	6278	6279	V074			
174	Female infertility											
6280	6281	6282	6283	6284	6288	6289						
175	Other female genital disorders											
6190	6191	6192	6198	6199	6203	6204	6205	6206	6207	6208	6209	
6210	6211	6212	6213	62130	62131	62132	62133	6214	6215	6216	6217	
6218	6219	6220	6221	62210	62211	62212	6222	6223	6224	6225	6226	
6227	6228	6229	6230	6231	6232	6233	6234	6235	6236	6237	6238	
6239	6240	6241	6242	6243	6244	6245	6246	6248	6249	6250	6251	
6252	6254	6255	6256	6258	6259	6267	6290	6291	62920	62921	62922	
62923	6298	6299	79500	79501	79502	79503	79504	79505	79508	79509	V132	
V1321	V1329	V557	V723									
176	Contraceptive and procreative management											
V157	V2501	V2502	V2503	V2509	V251	V252	V253	V2540	V2541	V2542	V2543	
V2549	V255	V258	V259	V260	V261	V262	V2621	V2622	V2629	V263	V2631	
V2632	V2633	V264	V2651	V2652	V268	V269	V455	V4551	V4552	V4559		
177	Spontaneous abortion											
63400	63401	63402	63410	63411	63412	63420	63421	63422	63430	63431	63432	
63440	63441	63442	63450	63451	63452	63460	63461	63462	63470	63471	63472	
63480	63481	63482	63490	63491	63492							

178 Induced abortion

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

179 Postabortion complications

6390	6391	6392	6393	6394	6395	6396	6398	6399			
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180 Ectopic pregnancy

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

181 Other complications of pregnancy

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

182 Hemorrhage during pregnancy; abruptio placenta; placenta previa

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

183 Hypertension complicating pregnancy; childbirth and the puerperium

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

184 Early or threatened labor

64400	64403	64410	64413	64420	64421						
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185	Prolonged pregnancy										
64500	64501	64503	64510	64511	64513	64520	64521	64523			
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

218 Liveborn

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

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

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

220 Intrauterine hypoxia and birth asphyxia

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

769

222 Hemolytic jaundice and perinatal jaundice

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

223 Birth trauma

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

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					
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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
-------	-------	-------	-------	-------	-------	-------	-------	------	------	------	------

2602 E Codes: Drowning/submersion

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

2603 E Codes: Fall

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

2604 E Codes: Fire/burn

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

2605 E Codes: Firearm

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

2606 E Codes: Machinery

E9190	E9191	E9192	E9193	E9194	E9195	E9196	E9197	E9198	E9199		
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	--	--

2607 E Codes: Motor vehicle traffic (MVT)

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

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

2608 E Codes: Pedal cyclist; not MVT

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

2609 E Codes: Pedestrian; not MVT

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

2610 E Codes: Transport; not MVT

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

2611 E Codes: Natural/environment

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

2612 E Codes: Overexertion

E927

2613 E Codes: Poisoning

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

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

2614 E Codes: Struck by; against

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

2615 E Codes: Suffocation

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

2616 E Codes: Adverse effects of medical care

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

2617 E Codes: Adverse effects of medical drugs

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

2618 E Codes: Other specified and classifiable

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

2619 E Codes: Other specified; NEC

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

2620 E Codes: Unspecified

E887 E9289 E9299 E9589 E9689 E976 E9889 E9979

2621 E Codes: Place of occurrence

E8490 E8491 E8492 E8493 E8494 E8495 E8496 E8497 E8498 E8499

Attachment 2:
Sample SAS Jobs for Linking Example

1

The SAS System

14:41 Monday, September 18, 2006

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:\program1\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

```

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 EVENTTYPE);
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 evntidxs 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 evntidx;
112         id evntidx;
113         var linkidx eventype;
114         format eventype eventype.;
115         title3 "sample print of work.rxlk - sorted by evntidx";
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 EVENTTYPE)
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 evntidx;
128      id evntidx;
129      format eventype eventype.;
130      title3 "sample print of work.pmedids - sorted by evntidx";
131      title4 "work.rxlk records for evntidxs in work.asmvvis";
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

182

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

HC-085I
Sample SAS Job for Example A
sample print of work.asconds - sorted by condidx
COND (H87) records where cccodex=128

14:41 Monday, September 18, 2006 1

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

HC-085I
Sample SAS Job for Example A
sample print of work.asclinks - sorted by condidx
events linked to asthma condition records

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CONDIDX	EVNTIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example A
sample print of work.asclinks - sorted by condidx
events linked to asthma condition records

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CONDIDX	EVNTIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example A
sample print of work.asclinks - sorted by evntidx

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Obs	EVNTIDX	EVENTTYPE	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

HC-085I
Sample SAS Job for Example A
sample print of unique evntidxs from work.asclnks

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Obs	EVNTIDX	EVENTTYPE
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

HC-085I
 Sample SAS Job for Example A
 sample print of work.asmvis
 unique evntidxs from work.asclinks that are non-telephone MVIS (HC-085G) events

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Obs	EVNTIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example A
sample print of work.rxlk - sorted by evntidx
Rx+event link file records (HC-85IF2)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example A
sample print of work.rxlk - sorted by evntidx
Rx+event link file records (HC-85IF2)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example A
sample print of work.rxlk - sorted by evntidx
Rx+event link file records (HC-85IF2)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example A
sample print of work.rxlink - sorted by evntidx
Rx+event link file records (HC-85IF2)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example A
sample print of work.rxlk - sorted by evntidx
Rx+event link file records (HC-85IF2)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example A
sample print of work.pmedids - sorted by evntidx
work.rxlk records for evntidxs in work.asmvis

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

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

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EVNTIDX	EVENTTYPE	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

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

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Obs	EVNTIDX	EVENTTYPE	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

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

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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

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

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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

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

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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

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

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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

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

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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	PREDNISONE	4.01	14580.339502
	506860150098002	PREDNISONE	4.01	14580.339502
	506860150098003	PREDNISONE	4.01	14580.339502
	506860150098004	PREDNISONE	4.01	14580.339502
	506860150098005	PREDNISONE	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

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

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LINKIDX	RXRECIDX	RXNAME	RXXXP04X	PERWT04F
506870151100	50687015110002	ALBUTEROL	19.51	2542.936632
	50687015110003	ALBUTEROL	19.51	2542.936632
	50687015110004	ALBUTEROL	13.35	2542.936632
	50687015110005	ALBUTEROL	13.35	2542.936632
	50687015110006	ALBUTEROL	13.35	2542.936632
	50687015110007	ALBUTEROL	19.51	2542.936632
506870151117	506870151117001	FUROSEMIDE	6.31	2542.936632
	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
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	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

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

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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

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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

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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

The SAS System

14:42 Monday, September 18, 2006

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:\program1\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;
22
23      -----
24      * Get condition records coded as asthma.
```

```
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      * Get the events linked to each of the asthma condition records.  
32      *-----;  
33      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      proc print data=asconds (obs=50);  
36          title3 "sample print of work.asconds - sorted by condidx";  
37          title4 "COND (H87) records where cccodex=128";  
38      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      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      DATA ASCLNKS;  
43          MERGE CLNK    (IN=INCLNK   KEEP=CONDIDX EVNTIDX EVENTTYPE)  
44              ASCONDS(IN=INASCOND KEEP=CONDIDX);  
45          BY CONDIDX;  
46          IF INCLNK & INASCOND;  
47      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 "P MED (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

HC-085I
Sample SAS Job for Example B
sample print of work.asconds - sorted by condidx
COND (H87) records where cccodex=128

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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

HC-085I
Sample SAS Job for Example B
sample print of work.asclinks - sorted by condidx
events linked to asthma condition records

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CONDIDX	EVNTIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example B
sample print of work.asclinks - sorted by condidx
events linked to asthma condition records

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CONDIDX	EVNTIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example B
sample print of work.asclinks - sorted by evntidx

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Obs	EVNTIDX	EVENTTYPE	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

HC-085I
Sample SAS Job for Example B
sample print of unique evntidxs from work.asclnks

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Obs	EVNTIDX	EVENTTYPE
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

HC-085I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-085A) records which link to condition records coded as asthma

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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

HC-085I
Sample SAS Job for Example B
sample print of work.aspmeds
PMED (HC-085A) records which link to condition records coded as asthma

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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-CYLEN	43.74	8690.565089
	500460100012002	ORTHO TRI-CYLEN	43.74	8690.565089
	500460100012003	ORTHO TRI-CYLEN	43.74	8690.565089
	500460100012004	ORTHO TRI-CYLEN	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

HC-085I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-085A) records which link to condition records coded as asthma

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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

HC-085I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-085A) records which link to condition records coded as asthma

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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

HC-085I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-085A) records which link to condition records coded as asthma

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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

HC-085I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-085A) records which link to condition records coded as asthma

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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

HC-085I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-085A) records which link to condition records coded as asthma

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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

HC-085I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-085A) records which link to condition records coded as asthma

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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

HC-085I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-085A) records which link to condition records coded as asthma

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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

HC-085I
Sample SAS Job for Example B
Total Rx expenditures associated with asthma

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The MEANS Procedure

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

N	Sum
10670	729496.51

HC-085I
Sample SAS Job for Example B
Total Rx expenditures associated with asthma

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Weighted

The MEANS Procedure

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

N	Sum
10670	6400164170

1

The SAS System

14:44 Monday, September 18, 2006

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:\program\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 EVENTTYPE
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 EVENTTYPE has been output.
22 RUN;

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

23
24 -----

```
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=INASCOND KEEP=CONDIDX);  
47          BY CONDIDX;  
48          IF INCLNK & INASCOND;  
49      RUN;
```

NOTE: There were 348119 observations read from the data set WORK.CLINK.
 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      proc print data=asclinks (obs=50);
72          format eventype eventype.;
73          title3 "sample print of unique evntidxs from work.asclinks";
74      run;
```

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

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 ASCLINKS (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.ASCLINKS.

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.asmv";
100 title4 "unique evntidxs from work.asclinks 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 OBXP04X;
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 OBXP04X;
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

HC-085I
Sample SAS Job for Example C
sample print of work.asconds - sorted by condidx
COND (HC-087) records where cccodex=128

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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

HC-085I
Sample SAS Job for Example C
sample print of work.asclinks - sorted by condidx
events linked to asthma condition records

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CONDIDX	EVNTIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example C
sample print of work.asclinks - sorted by condidx
events linked to asthma condition records

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CONDIDX	EVNTIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example C
sample print of work.asclinks - sorted by evntidx

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Obs	EVNTIDX	EVENTTYPE	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

HC-085I
Sample SAS Job for Example C
sample print of unique evntidxs from work.asclnks

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Obs	EVNTIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example C
sample print of work.asmvvis
unique evntidxs from work.asclnks that are non-telephone MVIS (HC-085G) events

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Obs	EVNTIDX	EVENTTYPE	SEETLKPV	OBXP04X	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

HC-085I
Sample SAS Job for Example C
Total medical visit expenditures (excluding telephone) associated with asthma

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The MEANS Procedure

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

N	Sum
2165	179729.42

HC-085I
Sample SAS Job for Example C
Total medical visit expenditures (excluding telephone) associated with asthma

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Weighted

The MEANS Procedure

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

N	Sum
2165	1518235749

1

The SAS System

14:45 Monday, September 18, 2006

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:\program\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 D";
5
6      LIBNAME IN "C:\DATA";
7
NOTE: Libref IN was successfully assigned as follows:
8      Engine:          V8
9      Physical Name:  C:\DATA
10
11      ****
12      * Calculate the expenditures for prescribed medicines associated
13      * with insulin reported by the household as an other medical expense.
14      ****;
15
16      PROC FORMAT;
17          VALUE EVENTYPE
18              1 = "1 MVIS"
19              2 = "2 OPAT"
20              3 = "3 EROM"
21              4 = "4 STAZ"
22              5 = "5 DVIS"
23              6 = "6 OMED"
24              7 = "7 HVIS"
25              8 = "8 PMED";
26
NOTE: Format EVENTYPE has been output.
27
28      VALUE OMTYPE
29          -9 = "-9 NOT ASCERTAINED"
30          -8 = "-8 DK"
31          -7 = "-7 REFUSED"
32          -1 = "-1 INAPPLICABLE"
33          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 eventtype;
72          format eventtype eventtype.;
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=(eventtype=6));
78      run;

NOTE: There were 1958 observations read from the data set WORK.RXLK.
      WHERE eventtype=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 eventtype;
83          format eventtype eventtype.;
84          title3 "sample print of work.omedrxlk - sorted by evntidx";
85          title4 "Rx+event link file records (HC-85IF2) where eventtype=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 EVENTTYPE)
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 evntidx;
97          id evntidx;
98          format eventype eventype.;
99          title3 "sample print of work.pmedids - sorted by evntidx";
100         title4 "work.rxlk records for omeg 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      DATA PMEDIDS;
110      SET PMEDIDS (KEEP=LINKIDX);
111      BY LINKIDX;
112      IF FIRST.LINKIDX;
113      KEEP LINKIDX;
114
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      proc print data=pmedids (obs=50);
117      title3 "sample print of unique linkidxs in work.pmedids";
118      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      DATA OMPMEDS;
127      MERGE PMED (KEEP=LINKIDX RXRECIDX RXXP04X PERWT04F RXNAME)
128          PMEDIDS (IN=A);
129      BY LINKIDX;
130      IF A & PERWT04F>0;
131
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.OMPMEDES 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

```

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

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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

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

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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

HC-085I
Sample SAS Job for Example D
sample print of Rx+event link file records (HC-85IF2) - sorted by evntidx

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EVNTIDX	LINKIDX	EVENTTYPE
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

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

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

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

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EVNTIDX	LINKIDX	EVENTTYPE
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

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

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EVNTIDX	LINKIDX	EVENTTYPE
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

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

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example D
sample print of work.omedixlk - sorted by evntidx
Rx+event link file records (HC-85IF2) where eventtype=6 (omed)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example D
sample print of work.omedixlk - sorted by evntidx
Rx+event link file records (HC-85IF2) where eventtype=6 (omed)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example D
sample print of work.omedixlk - sorted by evntidx
Rx+event link file records (HC-85IF2) where eventtype=6 (omed)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example D
sample print of work.omedixlk - sorted by evntidx
Rx+event link file records (HC-85IF2) where eventtype=6 (omed)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example D
sample print of work.omedixlk - sorted by evntidx
Rx+event link file records (HC-85IF2) where eventtype=6 (omed)

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EVNTIDX	LINKIDX	EVENTTYPE
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

HC-085I
Sample SAS Job for Example D
sample print of work.pmedids - sorted by evntidx
work.rxlk records for omed events for insulin

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EVNTIDX	EVENTTYPE	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

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

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EVNTIDX	EVENTTYPE	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

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

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Obs	EVNTIDX	EVENTTYPE	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

HC-085I
Sample SAS Job for Example D
sample print of unique linkidxs in work.pmedids

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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

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

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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

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

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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

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

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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

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

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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

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

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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

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

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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

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Sample SAS Job for Example D
Total Rx expenditures associated with other medical expenses for insulin

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The MEANS Procedure

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

N	Sum
1778	124276.65

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Sample SAS Job for Example D
Total Rx expenditures associated with other medical expenses for insulin

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Weighted

The MEANS Procedure

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

N	Sum
1778	1099947734