

**MEPS HC-110I:
Appendix to MEPS 2007 Event Files
HC-110A - HC-110H
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A. Data Use Agreement

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

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

1. No one is to use the data in this data set in any way except for statistical reporting and analysis; and
2. If the identity of any person or establishment should be discovered inadvertently, then (a) no use will be made of this knowledge, (b) the Director Office of Management AHRQ will be advised of this incident, (c) the information that would identify any individual or establishment will be safeguarded or destroyed, as requested by AHRQ, and (d) no one else will be informed of the discovered identity; and
3. No one will attempt to link this data set with individually identifiable records from any data sets other than the Medical Expenditure Panel Survey or the National Health Interview Survey.

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

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

B. Background

1.0 Household Component

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

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

The set of households selected for each panel of the MEPS HC is a subsample of households participating in the previous year's National Health Interview Survey (NHIS) conducted by the National Center for Health Statistics. The NHIS sampling frame provides a nationally representative sample of the U.S. civilian non-institutionalized population and reflects an oversample of blacks and Hispanics. In 2006, the NHIS implemented a new sample design, which included Asian persons in addition to households with black and Hispanic persons in the oversampling of minority populations. MEPS further oversamples additional policy relevant subgroups such as low income households. The linkage of the MEPS to the previous year's NHIS provides additional data for longitudinal analytic purposes.

2.0 Medical Provider Component

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

3.0 Survey Management and Data Collection

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

As soon as data collection and editing are completed, the MEPS survey data are released to the public in staged releases of summary reports, micro data files, and tables via the MEPS Web site: www.meps.ahrq.gov. Selected data can be analyzed through MEPSnet, an on-line interactive tool designed to give data users the capability to statistically analyze MEPS data in a menu-driven environment.

Additional information on MEPS is available from the MEPS project manager or the MEPS public use data manager at the Center for Financing, Access, and Cost Trends, Agency for Healthcare Research and Quality, 540 Gaither Road, Rockville, MD 20850 (301-427-1406).

C. Technical and Programming Information

1.0 General Information

This documentation describes the MEPS Public Use Release HC-110I, which is the Appendix to MEPS releases HC-110A through HC-110H. This release contains two data files, both of which are provided in ASCII (with related SAS and SPSS programming statements) and SAS versions: 1) the condition-event link file; and 2) the prescribed medicines-event link file. Also included in this release are two tables provided as PDF files: 1) the condition-event frequency table and 2) the utilization and expenditures summary table.

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

Data File Information

Merging/Linking MEPS Data Files

Crosswalk of Clinical Classification Codes to ICD-9-CM Codes

Sample SAS Jobs for Linking

For more information on MEPS HC survey design see S. Cohen, 1997; J. Cohen, 1997; and S. Cohen, 1996. For information on the MEPS MPC design, see S. Cohen, 1998. Both reports, along with a copy of the survey instruments used to collect the information on this file, are available on the MEPS Web site at the following address: www.meps.ahrq.gov.

2.0 Data File Information

This public use data set consists of two data files containing variables for linkage of the MEPS 2007 event-level data files. File 1, the H110IF1 or CLNK file, is used for linking the MEPS condition file with the MEPS event files; File 2, the H110IF2 or RXLK file, is used for linking the MEPS prescribed medicines event file with other MEPS event files.

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

2.1 Codebook Format

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

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

2.2 Variable Naming and Source

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

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

File 1 (H110IF1) or the CLNK file, contains the variables needed to link each record on the MEPS 2007 condition file, HC-112, with one or more records on the MEPS 2007 event files, HC-110A through HC-110H. 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 2007 Condition file, HC-112. 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 2007 event files, HC-110B through HC-110H. (EVNTIDX is not included on the 2007 Prescription Medicines event file, HC-110A; rather, on this file the variable for linking with EVNTIDX on the CLNK file is LINKIDX.) There may be more than one record on the CLNK file for a specific EVNTIDX value.

CLNKIDX is the 24-digit number that uniquely identifies each record on the CLNK file and is the combination of CONDIDX + EVNTIDX. There is just one record on this file for each value of CLNKIDX, i.e., each unique combination of CONDIDX + EVNTIDX.

The variable EVENTYPE indicates the type of event record identified by EVNTIDX, and has the following values:

- 1 = MVIS – office-based medical provider visit event contained on MEPS release HC-110G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-110F
- 3 = EROM – emergency room visit event contained on MEPS release HC-110E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-110D
- 7 = HVIS – home health visit event contained on MEPS release HC-110H
- 8 = PMED – prescribed medicines event contained on MEPS release HC-110A

PANEL is a constructed variable used to specify the panel number for the interview in which the condition was reported. PANEL will indicate either Panel 11 or Panel 12.

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

File 2 (H110IF2) or the RXLK file, contains the variables needed to link each record on the MEPS 2007 prescribed medicines file, HC-110A, with one or more records on the MEPS 2007 event files, HC-110B and HC-110D through HC-110G. Section 3.0 contains additional information on completing this linkage.

The 8-character variable DUPERSID uniquely identifies each person represented on the file. There may be more than one record on the RXLK file for a specific DUPERSID value.

EVNTIDX is the 12-digit number that uniquely identifies each event for a person and corresponds to a unique record on one of the MEPS 2007 event files, HC-110B through HC-110G. There may be more than one record on the RXLK file for a specific EVNTIDX value.

LINKIDX is the 12-digit number that identifies the record(s) on the prescribed medicines file, HC-110A 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-110A file for a specific LINKIDX value.

RXLKIDX is the 24-digit number that uniquely identifies each record on the RXLK file, and is the combination of EVNTIDX + LINKIDX. There is just one record on this file for each value of RXLKIDX, i.e., each unique combination of EVNTIDX + LINKIDX.

The variable EVENTYPE indicates the type of event record identified by EVNTIDX, and has the following values:

- 1 = MVIS – office-based medical provider visit event contained on MEPS release HC-110G
- 2 = OPAT – outpatient department visit event contained on MEPS release HC-110F
- 3 = EROM – emergency room visit event contained on MEPS release HC-110E
- 4 = STAZ – inpatient hospital stay event contained on MEPS release HC-110D
- 5 = DVIS – dental visit event contained on MEPS release HC-110B

For 1996-2004, records for purchases of insulin and diabetic supplies in a round were included in the Other Medical Expenses event files. Beginning with the 2005 file, these records are not included in the Other Medical Expenses file because the expenditures have always been included

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

PANEL is a constructed variable used to specify the panel number for the interview in which the condition was reported. PANEL will indicate either Panel 11 or Panel 12.

2.5 2007 Condition-Event Frequency Table

Table 1 contains the MEPS 2007 Condition-Event Frequency table. This table contains unweighted and weighted counts of records on the MEPS 2007 event files, HC-110A through HC-110H, for each of the condition, procedure, and clinical classification codes contained on the MEPS 2007 Condition file, HC-112. Attachment 1 contains a crosswalk of the clinical classification codes to ICD-9-CM codes.

Analysts should use the clinical classification codes listed in the Conditions PUF document (HC-112) and the Appendix to the Event Files (HC-110I) document when analyzing MEPS conditions data. Although there is a list of clinical classification codes and labels on the Healthcare Cost and Utilization Project (HCUP) Web site, if updates to these codes and/or labels are made on the HCUP Web site after the release of the 2007 MEPS PUFs, these updates will not be reflected in the 2007 MEPS data.

Note that, for conditions related to certain medical events, the ICD-9-CM codes on the Conditions file are also released in the Prescribed Medicines, Emergency Room Visits, Office-based Medical Provider Visits, Outpatient Department Visits, and Inpatient Hospital Stays Event Files. ICD-9-CM codes are collapsed into broader codes to ensure confidentiality. Because of this collapsing, it is possible for there to be duplicate ICD-9-CM condition or procedure codes linked to a single medical event when different fully-specified codes are collapsed into the same code. For more information on ICD-9-CM codes, see the HC-112 documentation.

2.6 2007 Utilization and Expenditures Summary Table

Table 2 contains the MEPS 2007 Utilization and Expenditures Summary table. This table contains statistics for all of the utilization and expenditure variables contained on the MEPS 2007 Full Year Use and Expenditure Data file, HC-113. For each of these variables, the following statistics are provided from the HC-113 file, and from the corresponding event-level file(s) HC-110A through HC-110H:

Number of persons with positive person-level weight (PERWT07F) 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-113 variables from the event-level files.

3.0 Merging/Linking MEPS Data Files

This section provides information on using each of the two HC-110I files, RXLK and CLNK, to link with the files contained in MEPS releases HC-112 and HC-110A through HC-110H. The linking procedure is described using several examples of deriving MEPS-based estimates. Also included in this section are several caveats related to using the RXLK and CLNK files.

3.1 Example A: Using the CLNK (HC-110IF1) and RXLK (HC-110IF2) Files with the Medical Conditions File (HC-112), the Prescribed Medicines and Office-Based Medical Provider Visits Event Files (HC-110A and HC-110G)

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-112), the CLNK file (HC-110IF1), the office-based medical provider visit event file (HC-110G), the RXLK file (HC-110IF2), and the prescribed medicines event file (HC-110A). It includes the following major steps:

1. From HC-112, 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-110G 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-110G 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-110A linked to those visits.
6. Using these record IDs, obtain the linked records from the HC-110A file and calculate the weighted mean of the expenditure variable.

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

3.2 Example B: Using the CLNK File (HC-110IF1) with the Medical Conditions File (HC-112) and the Prescribed Medicines Event File (HC-110A)

This example calculates the total expenditure for prescribed medicines associated with asthma, using the condition file (HC-112), the CLNK file (HC-110IF1) and the prescribed medicines event file (HC-110A). It includes the following major steps:

1. From HC-112 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-110A 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-112) and Office-Based Medical Provider Visits Event File (HC-110G)

This example calculates the total expenditures for office-based medical provider visits associated with asthma, using the condition file (HC-112), the CLNK file (HC-110IF1) and the office-based medical provider visits event file (HC-110G). It includes the following major steps:

1. From HC-112 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-110G 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-110G records, identify only those visits which were for asthma and calculate the weighted mean of the expenditure variable.

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

3.4 Limitations/Caveats of the CLNK File

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

3.5 Limitations/Caveats of the RXLK File

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

3.6 National Health Interview Survey

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

3.7 Using MEPS Data for Trend Analysis

MEPS began in 1996, and the utility of the survey for analyzing health care trends expands with each additional year of data. However, it is important to consider a variety of factors when examining trends over time using MEPS. Statistical significance tests should be conducted to assess the likelihood that observed trends may be attributable to sampling variation. The length of time being analyzed should also be considered. In particular, large shifts in survey estimates over short periods of time (e.g. from one year to the next) that are statistically significant should be interpreted with caution, unless they are attributable to known factors such as changes in public policy, economic conditions, or MEPS survey methodology. Looking at changes over longer periods of time can provide a more complete picture of underlying trends. Analysts may wish to consider using techniques to smooth or stabilize analyses of trends using MEPS data such as comparing pooled time periods (e.g. 1996-97 versus 2005-06), working with moving averages, or using modeling techniques with several consecutive years of MEPS data to test the fit of specified patterns over time. Finally, researchers should be aware of the impact of multiple comparisons on Type I error. Without making appropriate allowance for multiple comparisons, undertaking numerous statistical significance tests of trends increases the likelihood of inappropriately concluding that a change has taken place.

3.8 Longitudinal Analysis

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

Attachment 1:

Clinical Classification Code to ICD-9-CM Code Crosswalk

Appendix A - Clinical Classification Software-DIAGNOSES (January 1980 through September 2007)

Please note that the following list provides an ICD-9-CM Condition code to CCS Condition code crosswalk.

1 Tuberculosis

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

2 Septicemia (except in labor)

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

3 Bacterial infection; unspecified site

0200	0208	0209	0218	0219	0228	0229	0230	0231	0232	0233	0238
------	------	------	------	------	------	------	------	------	------	------	------

0239	024	025	0260	0269	0270	0271	0272	0278	0279	0300	0301
0302	0303	0308	0309	0312	0318	0319	03289	0329	0330	0331	0338
0339	0341	0363	03681	03689	0369	037	0392	0393	0394	0398	0399
0400	0401	0402	0403	04081	04082	04089	0410	04100	04101	04102	04103
04104	04105	04109	0411	04110	04111	04119	0412	0413	0414	0415	0416
0417	0418	04181	04182	04183	04184	04185	04186	04189	0419	390	3929
7953	79531	79539	V090	V091	V092	V093	V094	V0950	V0951	V096	V0970
V0971	V0980	V0981	V0990	V0991							

4 Mycoses

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

5 HIV infection

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

6 Hepatitis

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

7 Viral infection

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

8 Other infections; including parasitic

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

13102	13103	13109	1318	1319	1320	1321	1322	1323	1329	1330	1338
1339	1340	1341	1342	1348	1349	135	1360	1361	1362	1364	1365
1368	1369	1398	V120	V1200	V1203	V1209					

9 Sexually transmitted infections (not HIV or hepatitis)

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

10 Immunizations and screening for infectious disease

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

11 Cancer of head and neck

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

12 Cancer of esophagus

1500	1501	1502	1503	1504	1505	1508	1509	2301	V1003		
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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			
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

46 Benign neoplasm of uterus

2180 2181 2182 2189 2190 2191 2198 2199

47 Other and unspecified benign neoplasm

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

48 Thyroid disorders

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

49 Diabetes mellitus without complication

25000 25001 7902 79021 79022 79029 7915 7916 V4585 V5391 V6546

50 Diabetes mellitus with complications

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

51 Other endocrine disorders

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

52 Nutritional deficiencies

260 261 262 2630 2631 2632 2638 2639 2640 2641 2642 2643
2644 2645 2646 2647 2648 2649 2650 2651 2652 2660 2661 2662

2669 267 2680 2681 2682 2689 2690 2691 2692 2693 2698 2699
7994 V121

53 Disorders of lipid metabolism

2720 2721 2722 2723 2724

54 Gout and other crystal arthropathies

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

55 Fluid and electrolyte disorders

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

56 Cystic fibrosis

27700 27701 27702 27703 27709

57 Immunity disorders

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

58 Other nutritional; endocrine; and metabolic disorders

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

59 Deficiency and other anemia

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

60 Acute posthemorrhagic anemia

2851

61 Sickle cell anemia

28241 28242 2825 28260 28261 28262 28263 28264 28268 28269

62 Coagulation and hemorrhagic disorders

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

63 Diseases of white blood cells

2880 2881 2882 2883 2888 2889

64 Other hematologic conditions

2890 2894 28950 28951 28952 28959 2896 2897 2898 28989 2899 7900
79001 79009 V123 V582

76 Meningitis (except that caused by tuberculosis or sexually transmitted disease)

00321 0360 0470 0471 0478 0479 0490 0491 0530 05472 0721 10081
11283 1142 11501 11511 11591 3200 3201 3202 3203 3207 3208 32081
32082 32089 3209 3210 3211 3212 3213 3214 3218 3220 3221 3222
3229

77 Encephalitis (except that caused by tuberculosis or sexually transmitted disease)

0361 0462 0498 0499 0520 0543 0550 05601 0620 0621 0622 0623
0624 0625 0628 0629 0630 0631 0632 0638 0639 064 0662 0722
1300 1390 3230 3231 3232 3234 3235 3236 3237 3238 3239

78 Other CNS infection and poliomyelitis

04500 04501 04502 04503 04510 04511 04512 04513 04520 04521 04522 04523
04590 04591 04592 04593 0460 0461 0463 0468 0469 048 138 3240
3241 3249 326 V1202

79 Parkinson`s disease

3320

80 Multiple sclerosis

340

81 Other hereditary and degenerative nervous system conditions

3300 3301 3302 3303 3308 3309 3313 3314 3317 33181 33189 3319
3330 3331 3332 3333 3334 3335 3336 3337 33381 33382 33383 33384
33389 33390 33391 33392 33393 33399 3340 3341 3342 3343 3344 3348
3349 3350 33510 33511 33519 33520 33521 33522 33523 33524 33529 3358
3359 3360 3361 3362 3363 3368 3369 3370 3371 3373 3379

82 Paralysis

3420 34200 34201 34202 3421 34210 34211 34212 34280 34281 34282 3429

34290	34291	34292	3430	3431	3432	3433	3434	3438	3439	3440	34400
34401	34402	34403	34404	34409	3441	3442	3443	34430	34431	34432	3444
34440	34441	34442	3445	34460	3448	34481	34489	3449	7814		

83 Epilepsy; convulsions

3450	34500	34501	3451	34510	34511	3452	3453	3454	34540	34541	3455
34550	34551	3456	34560	34561	3457	34570	34571	3458	34580	34581	3459
34590	34591	7803	78031	78039							

84 Headache; including migraine

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

85 Coma; stupor; and brain damage

3481	7800	78001	78003	78009							
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86 Cataract

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

87 Retinal detachments; defects; vascular occlusion; and retinopathy

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

88 Glaucoma

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

89 Blindness and vision defects

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

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

0213	03281	05320	05321	05322	05329	05440	05441	05442	05443	05444	05449
05571	0760	0761	0769	0770	0771	0772	0773	0774	0778	0779	07798
07799	11502	11512	11592	1301	1302	1391	36000	36001	36002	36003	36004
36011	36012	36013	36014	36019	36300	36301	36303	36304	36305	36306	36307
36308	36310	36311	36312	36313	36314	36315	36320	36321	36322	36400	36401
36402	36403	36404	36405	36410	36411	36421	36422	36423	36424	3643	37020
37021	37022	37023	37024	37031	37032	37033	37034	37035	37040	37044	37049
37050	37052	37054	37055	37059	3708	3709	37200	37201	37202	37203	37204
37205	37210	37211	37212	37213	37214	37215	37220	37221	37222	37230	37231
37233	37239	37300	37301	37302	37311	37312	37313	37331	37332	37333	37334
3734	3735	3736	3738	3739	37500	37501	37502	37503	37530	37531	37532
37533	37541	37542	37543	37600	37601	37602	37603	37604	37610	37611	37612
37613	37730	37731	37732	37733	37734	37739	37900	37901	37902	37903	37904
37905	37906	37907	37909								

91 Other eye disorders

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

92 Otitis media and related conditions

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

93 Conditions associated with dizziness or vertigo

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

94 Other ear and sense organ disorders

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

95 Other nervous system disorders

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

96 Heart valve disorders

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

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

03282	03640	03641	03642	03643	07420	07421	07422	07423	11281	11503	11504
11513	11514	11593	11594	1303	3910	3911	3912	3918	3919	3920	393
3980	39890	39899	4200	42090	42091	42099	4210	4211	4219	4220	42290

42291 42292 42293 42299 4230 4231 4232 4238 4239 4250 4251 4252
4253 4254 4255 4257 4258 4259 4290

98 Essential hypertension

4011 4019

99 Hypertension with complications and secondary hypertension

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

100 Acute myocardial infarction

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

101 Coronary atherosclerosis and other heart disease

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

102 Nonspecific chest pain

78650 78651 78659

103 Pulmonary heart disease

4150 4151 41519 4160 4161 4168 4169 4170 4171 4178 4179

104 Other and ill-defined heart disease

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

105 Conduction disorders

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

106 Cardiac dysrhythmias

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

107 Cardiac arrest and ventricular fibrillation

42741 42742 4275

108 Congestive heart failure; nonhypertensive

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

109 Acute cerebrovascular disease

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

110 Occlusion or stenosis of precerebral arteries

4330 43300 4331 43310 4332 43320 4333 43330 4338 43380 4339 43390

111 Other and ill-defined cerebrovascular disease

4370 4371 4373 4374 4375 4376 4377 4378 4379

112 Transient cerebral ischemia

4350 4351 4352 4353 4358 4359

113 Late effects of cerebrovascular disease

438 4380 43810 43811 43812 43819 43820 43821 43822 43830 43831 43832
43840 43841 43842 43850 43851 43852 43853 4386 4387 43881 43882 43883
43884 43885 43889 4389

114 Peripheral and visceral atherosclerosis

4400 4401 4402 44020 44021 44022 44023 44029 4408 4409 4439 5570
5571 5579

115 Aortic; peripheral; and visceral artery aneurysms

4410 44100 44101 44102 44103 4411 4412 4413 4414 4415 4416 4417
4419 4420 4421 4422 4423 44281 44282 44283 44284 44289 4429 44321
44322 44323 44324 44329

116 Aortic and peripheral arterial embolism or thrombosis

4440 4441 44421 44422 44481 44489 4449 44501 44502 44581 44589

117 Other circulatory disease

42682 4430 4431 44381 44382 44389 4460 4461 4462 44620 44621 44629
4463 4464 4465 4466 4467 4470 4471 4472 4473 4474 4475 4476
4478 4479 4480 4481 4489 4580 4581 4588 4589 4590 45989 4599
7859 79430 79431 79439 7962 V125 V1250 V1259 V151 V421 V432 V4321
V4322 V434 V717

118 Phlebitis; thrombophlebitis and thromboembolism

4510 45111 45119 4512 45181 45182 45183 45184 45189 4519 452 4530

4531	4532	4533	45340	45341	45342	4538	4539	V1251	V1252		
119	Varicose veins of lower extremity										
4540	4541	4542	4548	4549							
120	Hemorrhoids										
4550	4551	4552	4553	4554	4555	4556	4557	4558	4559		
121	Other diseases of veins and lymphatics										
4563	4564	4565	4566	4568	4570	4571	4572	4578	4579	4591	45910
45911	45912	45913	45919	4592	45930	45931	45932	45933	45939	45981	
122	Pneumonia (except that caused by tuberculosis or sexually transmitted disease)										
00322	0203	0204	0205	0212	0221	0310	0391	0521	0551	0730	0830
1124	1140	1144	1145	11505	11515	11595	1304	1363	4800	4801	4802
4803	4808	4809	481	4820	4821	4822	4823	48230	48231	48232	48239
4824	48240	48241	48249	4828	48281	48282	48283	48284	48289	4829	483
4830	4831	4838	4841	4843	4845	4846	4847	4848	485	486	5130
5171											
123	Influenza										
4870	4871	4878									
124	Acute and chronic tonsillitis										
463	4740	47400	47401	47402	47410	47411	47412	4742	4748	4749	475
125	Acute bronchitis										
4660	4661	46611	46619								
126	Other upper respiratory infections										
0320	0321	0322	0323	0340	460	4610	4611	4612	4613	4618	4619
462	4640	46400	46401	46410	46411	46420	46421	46430	46431	4644	46450
46451	4650	4658	4659	4730	4731	4732	4733	4738	4739		
127	Chronic obstructive pulmonary disease and bronchiectasis										
490	4910	4911	4912	49120	49121	49122	4918	4919	4920	4928	494
4940	4941	496									
128	Asthma										
49300	49301	49302	49310	49311	49312	49320	49321	49322	49381	49382	49390
49391	49392										

129 Aspiration pneumonitis; food/vomitus

5070

130 Pleurisy; pneumothorax; pulmonary collapse

5100 5109 5110 5111 5118 5119 5120 5128 5180 5181 5182

131 Respiratory failure; insufficiency; arrest (adult)

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

132 Lung disease due to external agents

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

133 Other lower respiratory disease

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

134 Other upper respiratory disease

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

135 Intestinal infection

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

136 Disorders of teeth and jaw

5200 5201 5202 5203 5204 5205 5206 5207 5208 5209 5210 52100
52101 52102 52103 52104 52105 52106 52107 52108 52109 5211 52110 52111
52112 52113 52114 52115 5212 52120 52121 52122 52123 52124 52125 5213
52130 52131 52132 52133 52134 52135 5214 52140 52141 52142 52149 5215
5216 5217 5218 5219 5220 5221 5222 5223 5224 5225 5226 5227
5228 5229 5230 5231 5232 52320 52321 52322 52323 52324 52325 5233
5234 5235 5236 5238 5239 5240 52400 52401 52402 52403 52404 52405

52406	52407	52409	5241	52410	52411	52412	52419	5242	52420	52421	52422
52423	52424	52425	52426	52427	52428	52429	5243	52430	52431	52432	52433
52434	52435	52436	52437	52439	5244	5245	52450	52451	52452	52453	52454
52455	52456	52457	52459	5246	52460	52461	52462	52463	52464	52469	52470
52471	52472	52473	52474	52475	52476	52479	5248	52481	52482	52489	5249
5250	5251	52510	52511	52512	52513	52519	5252	52520	52521	52522	52523
52524	52525	52526	5253	52540	52541	52542	52543	52544	52550	52551	52552
52553	52554	5258	5259	5260	5261	5262	5263	5264	5265	52681	52689
5269	V523	V534	V585	V722							

137 Diseases of mouth; excluding dental

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

138 Esophageal disorders

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

139 Gastroduodenal ulcer (except hemorrhage)

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

140 Gastritis and duodenitis

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

141 Other disorders of stomach and duodenum

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

142 Appendicitis and other appendiceal conditions

5400	5401	5409	541	542	5430	5439					
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143 Abdominal hernia

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

144 Regional enteritis and ulcerative colitis

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

145 Intestinal obstruction without hernia

5600 5601 5602 56030 56031 56039 56081 56089 5609

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 abscess03283 5670 5671 5672 56721 56722 56723 56729 56738 56739 5678 56781
56782 56789 5679 5695**149 Biliary tract disease**57400 57401 57410 57411 57420 57421 57430 57431 57440 57441 57450 57451
57460 57461 57470 57471 57480 57481 57490 57491 5750 5751 57510 57511
57512 5752 5753 5754 5755 5756 5758 5759 5760 5761 5762 5763
5764 5765 5768 5769 7933**150 Liver disease; alcohol-related**

5710 5711 5712 5713

151 Other liver diseases570 5715 5716 5718 5719 5720 5721 5722 5723 5724 5728 5730
5734 5738 5739 7824 7891 7895 7904 7905 7948 V427**152 Pancreatic disorders (not diabetes)**

5770 5771 5772 5778 5779 5794

153 Gastrointestinal hemorrhage4560 45620 5307 53082 53100 53101 53120 53121 53140 53141 53160 53161
53200 53201 53220 53221 53240 53241 53260 53261 53300 53301 53320 53321
53340 53341 53360 53361 53400 53401 53420 53421 53440 53441 53460 53461
5693 5780 5781 5789**154 Noninfectious gastroenteritis**

5589

155 Other gastrointestinal disorders5581 5582 5640 56400 56401 56402 56409 5641 5645 5647 5648 56481
56489 5649 5680 56881 56882 56889 5689 56981 56982 56983 56984 56985
56986 56989 5699 5790 5791 5792 5798 5799 7871 7872 7873 7874
7875 7876 7877 7879 78791 78799 7892 7893 78930 78931 78932 78933

78934	78935	78936	78937	78939	7894	78940	78941	78942	78943	78944	78945
78946	78947	78949	7899	7921	7934	7936	V127	V1270	V1279	V416	V441
V442	V443	V444	V453	V473	V535	V551	V552	V553	V554		

156 Nephritis; nephrosis; renal sclerosis

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

157 Acute and unspecified renal failure

5845	5846	5847	5848	5849	586						
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158 Chronic renal failure

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

159 Urinary tract infections

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

160 Calculus of urinary tract

5920	5921	5929	5940	5941	5942	5948	5949	7880	V1301		
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161 Other diseases of kidney and ureters

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

162 Other diseases of bladder and urethra

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

163 Genitourinary symptoms and ill-defined conditions

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

164 Hyperplasia of prostate

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

165 Inflammatory conditions of male genital organs

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

166 Other male genital disorders

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

167 Nonmalignant breast conditions

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

168 Inflammatory diseases of female pelvic organs

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

169 Endometriosis

6170 6171 6172 6173 6174 6175 6176 6178 6179

170 Prolapse of female genital organs

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

171 Menstrual disorders

6253 6260 6261 6262 6263 6264 6265 6266 6268 6269

172 Ovarian cyst

6200 6201 6202

173 Menopausal disorders

25631 25639 6270 6271 6272 6273 6274 6278 6279 V074

174 Female infertility

6280 6281 6282 6283 6284 6288 6289

175 Other female genital disorders

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

62923 6298 6299 79500 79501 79502 79503 79504 79505 79508 79509 V132
V1321 V1329 V557 V723

176 Contraceptive and procreative management

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

177 Spontaneous abortion

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

178 Induced abortion

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

179 Postabortion complications

6390 6391 6392 6393 6394 6395 6396 6398 6399

180 Ectopic pregnancy

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

181 Other complications of pregnancy

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

182 Hemorrhage during pregnancy; abruptio placenta; placenta previa

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

183 Hypertension complicating pregnancy; childbirth and the puerperium

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

184 Early or threatened labor

64400 64403 64410 64413 64420 64421

185 Prolonged pregnancy

64500 64501 64503 64510 64511 64513 64520 64521 64523

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

64800 64801 64802 64803 64804 64880 64881 64882 64883 64884

187 Malposition; malpresentation

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

188 Fetopelvic disproportion; obstruction

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

189 Previous C-section

65420 65421 65423

190 Fetal distress and abnormal forces of labor

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

191 Polyhydramnios and other problems of amniotic cavity

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

77984 7923

192 Umbilical cord complication

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

193 OB-related trauma to perineum and vulva

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

194 Forceps delivery

66950 66951

195 Other complications of birth; puerperium affecting management of mother

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

67680	67681	67682	67683	67684	67690	67691	67692	67693	67694	677	V230
V231	V232	V233	V234	V2341	V2349	V235	V237	V238	V2381	V2382	V2383
V2384	V2389	V239									

196 Normal pregnancy and/or delivery

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

197 Skin and subcutaneous tissue infections

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

198 Other inflammatory condition of skin

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

199 Chronic ulcer of skin

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

200 Other skin disorders

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

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

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

73093 73094 73095 73096 73097 73098 73099

202 Rheumatoid arthritis and related disease

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

203 Osteoarthritis

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

204 Other non-traumatic joint disorders

7130 7131 7132 7133 7134 7135 7136 7137 7138 71600 71601 71602
71603 71604 71605 71606 71607 71608 71609 71620 71621 71622 71623 71624
71625 71626 71627 71628 71629 71630 71631 71632 71633 71634 71635 71636
71637 71638 71639 71640 71641 71642 71643 71644 71645 71646 71647 71648
71649 71650 71651 71652 71653 71654 71655 71656 71657 71658 71659 71660
71661 71662 71663 71664 71665 71666 71667 71668 71680 71681 71682 71683
71684 71685 71686 71687 71688 71689 71690 71691 71692 71693 71694 71695
71696 71697 71698 71699 71810 71811 71812 71813 71814 71815 71817 71818
71819 71820 71821 71822 71823 71824 71825 71826 71827 71828 71829 71850
71851 71852 71853 71854 71855 71856 71857 71858 71859 71860 71865 71870
71871 71872 71873 71874 71875 71876 71877 71878 71879 71880 71881 71882
71883 71884 71885 71886 71887 71888 71889 71890 71891 71892 71893 71894
71895 71897 71898 71899 71900 71901 71902 71903 71904 71905 71906 71907
71908 71909 71910 71911 71912 71913 71914 71915 71916 71917 71918 71919
71920 71921 71922 71923 71924 71925 71926 71927 71928 71929 71930 71931
71932 71933 71934 71935 71936 71937 71938 71939 71940 71941 71942 71943
71944 71945 71946 71947 71948 71949 71950 71951 71952 71953 71954 71955
71956 71957 71958 71959 71960 71961 71962 71963 71964 71965 71966 71967
71968 71969 7197 71970 71975 71976 71977 71978 71979 71980 71981 71982
71983 71984 71985 71986 71987 71988 71989 71990 71991 71992 71993 71994
71995 71996 71997 71998 71999

205 Spondylosis; intervertebral disc disorders; other back problems

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

206 Osteoporosis

73300 73301 73302 73303 73309

207 Pathological fracture

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

208 Acquired foot deformities

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

209 Other acquired deformities

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

210 Systemic lupus erythematosus and connective tissue disorders

7100 7101 7102 7103 7104 7108 7109

211 Other connective tissue disease

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

212 Other bone disease and musculoskeletal deformities

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

213 Cardiac and circulatory congenital anomalies

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

214 Digestive congenital anomalies

7500 75010 75011 75012 75013 75015 75016 75019 75021 75022 75023 75024
75025 75026 75027 75029 7503 7504 7505 7506 7507 7508 7509 7510

7511 7512 7513 7514 7515 75160 75161 75162 75169 7517 7518 7519

215 Genitourinary congenital anomalies

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

216 Nervous system congenital anomalies

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

217 Other congenital anomalies

74300 74303 74306 74310 74311 74312 74320 74321 74322 74330 74331 74332
74333 74334 74335 74336 74337 74339 74341 74342 74343 74344 74345 74346
74347 74348 74349 74351 74352 74353 74354 74355 74356 74357 74358 74359
74361 74362 74363 74364 74365 74366 74369 7438 7439 74400 74401 74402
74403 74404 74405 74409 7441 74421 74422 74423 74424 74429 7443 74441
74442 74443 74446 74447 74449 7445 74481 74482 74483 74484 74489 7449
7480 7481 7482 7483 7484 7485 74860 74861 74869 7488 7489 74900
74901 74902 74903 74904 74910 74911 74912 74913 74914 74920 74921 74922
74923 74924 74925 7540 7541 7542 75430 75431 75432 75433 75435 75440
75441 75442 75443 75444 75450 75451 75452 75453 75459 75460 75461 75462
75469 75470 75471 75479 75481 75482 75489 75500 75501 75502 75510 75511
75512 75513 75514 75520 75521 75522 75523 75524 75525 75526 75527 75528
75529 75530 75531 75532 75533 75534 75535 75536 75537 75538 75539 7554
75550 75551 75552 75553 75554 75555 75556 75557 75558 75559 75560 75561
75562 75563 75564 75565 75566 75567 75569 7558 7559 7560 75610 75611
75612 75613 75614 75615 75616 75617 75619 7562 7563 7564 75650 75651
75652 75653 75654 75655 75656 75659 7566 7567 75670 75671 75679 75681
75682 75683 75689 7569 7570 7571 7572 75731 75732 75733 75739 7574
7575 7576 7578 7579 7580 7581 7582 7583 75831 75832 75833 75839
7584 7585 7586 7587 7588 75881 75889 7589 7590 7591 7592 7593
7594 7595 7596 7597 7598 75981 75982 75983 75989 7599 7952 V136
V1369

218 Liveborn

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

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

7640 76400 76401 76402 76403 76404 76405 76406 76407 76408 76409 7641
76410 76411 76412 76413 76414 76415 76416 76417 76418 76419 7642 76420
76421 76422 76423 76424 76425 76426 76427 76428 76429 7649 76490 76491
76492 76493 76494 76495 76496 76497 76498 76499 7650 76500 76501 76502
76503 76504 76505 76506 76507 76508 76509 7651 76510 76511 76512 76513

76514 76515 76516 76517 76518 76519 76520 76521 76522 76523 76524 76525
76526 76527 76528 76529 V2130 V2131 V2132 V2133 V2134 V2135

220 Intrauterine hypoxia and birth asphyxia

7680 7681 7682 7683 7684 7685 7686 7689

221 Respiratory distress syndrome

769

222 Hemolytic jaundice and perinatal jaundice

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

223 Birth trauma

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

224 Other perinatal conditions

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

225 Joint disorders and dislocations; trauma-related

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

226 Fracture of neck of femur (hip)

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

227 Spinal cord injury

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

228 Skull and face fractures

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

229 Fracture of upper limb

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

230 Fracture of lower limb

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

231 Other fractures

80500	80501	80502	80503	80504	80505	80506	80507	80508	80510	80511	80512
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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	9801	9802	9803	9808	9809	981	9820	9821	9822	9823	9824
9828	9830	9831	9832	9839	9840	9841	9848	9849	9850	9851	9852
9853	9854	9855	9856	9858	9859	986	9870	9871	9872	9873	9874
9875	9876	9877	9878	9879	9880	9881	9882	9888	9889	9890	9891
9892	9893	9894	9895	9896	9897	9898	98981	98982	98983	98984	98989
9899											

244 Other injuries and conditions due to external causes

7960	7990	79901	79902	9071	9073	9074	9075	9079	9085	9086	9089
9092	9094	9099	9300	9301	9302	9308	9309	931	932	9330	9331
9340	9341	9348	9349	9350	9351	9352	936	937	938	9390	9391
9392	9393	9399	9500	9501	9502	9503	9509	9510	9511	9512	9513
9514	9515	9516	9517	9518	9519	9530	9531	9532	9533	9534	9535
9538	9539	9540	9541	9548	9549	9550	9551	9552	9553	9554	9555
9556	9557	9558	9559	9560	9561	9562	9563	9564	9565	9568	9569
9570	9571	9578	9579	9580	9581	9582	9583	9584	9585	9586	9587
9588	9590	95901	95909	9591	95911	95912	95913	95914	95919	9592	9593
9594	9595	9596	9597	9598	9599	990	9910	9911	9912	9913	9914
9915	9916	9918	9919	9920	9921	9922	9923	9924	9925	9926	9927
9928	9929	9930	9931	9932	9933	9934	9938	9939	9940	9941	9942
9943	9944	9945	9946	9947	9948	9949	9951	9955	99550	99551	99552
99553	99554	99555	99559	99580	99581	99582	99583	99584	99585	99589	99590
99591	99592	99593	99594	V155	V156	V1588	V713	V714	V715	V716	

245 Syncope

7802

246 Fever of unknown origin

7806

247 Lymphadenitis

2891 2892 2893 683 7856

248 Gangrene

44024 7854

249 Shock

78550 78551 78552 78559

250 Nausea and vomiting

7870 78701 78702 78703

251 Abdominal pain

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

252 Malaise and fatigue

7807 78071 78079

253 Allergic reactions

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

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

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

255 Administrative/social admission

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

V658 V659 V680 V681 V682 V6881 V6889 V689

256 Medical examination/evaluation

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

257 Other aftercare

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

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

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

259 Residual codes; unclassified

3020 32700 32701 32709 32710 32711 32712 32713 32714 32719 32720 32721
32722 32723 32724 32725 32726 32727 32729 32740 32741 32742 32743 32744
32749 32751 32759 3278 78002 7801 78050 78051 78052 78053 78054 78055
78056 78057 78058 78059 7809 78093 78094 78095 78099 7815 7816 7823
78261 78262 7828 7829 7830 7836 7842 7901 7903 7906 7909 79091
79092 79093 79094 79095 79099 7929 7932 7939 7949 7954 7963 7964
7965 7966 7969 7980 7981 7982 7989 7992 7993 7998 79981 79989
7999 V070 V072 V073 V0731 V0739 V078 V079 V1053 V131 V138 V139
V152 V153 V1581 V1584 V1585 V1586 V1587 V1589 V159 V160 V161 V162
V163 V164 V1640 V1641 V1642 V1643 V1649 V165 V1651 V1659 V166 V167
V168 V169 V170 V171 V172 V173 V174 V175 V176 V177 V178 V1781
V1789 V180 V181 V182 V183 V184 V185 V186 V1861 V1869 V187 V188
V189 V190 V191 V192 V193 V194 V195 V196 V197 V198 V210 V211
V212 V218 V219 V418 V419 V428 V4281 V4282 V4283 V4284 V4289 V429
V438 V4381 V4382 V4383 V4389 V447 V448 V449 V4571 V4572 V4573 V4574
V4575 V4576 V4577 V4578 V4579 V4583 V4584 V4589 V460 V468 V469 V470
V471 V472 V479 V480 V488 V489 V498 V4981 V4982 V4983 V4984 V4989
V499 V500 V501 V503 V5041 V5042 V5049 V508 V509 V590 V5901 V5902
V5909 V591 V592 V593 V594 V595 V596 V5970 V5971 V5972 V5973 V5974
V598 V599 V615 V640 V6400 V6401 V6402 V6403 V6404 V6405 V6406 V6407
V6408 V6409 V641 V642 V643 V644 V6441 V6442 V6443 V690 V691 V692
V693 V694 V695 V698 V699 V8301 V8302 V8381 V8389 V8401 V8402 V8403
V8404 V8409 V848 V851

650 Adjustment disorder

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

651 Anxiety disorder

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

652 Attention-deficit, conduct, and disruptive behavior disorder

Conduct disorder

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

Oppositional defiant disorder

31381

Attention deficit disorder / Attention deficit hyperactivity disorder

31400 31401 3141 3142 3148 3149

653 Delirium, dementia, and amnesic and other cognitive disorders

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

654 Developmental disorders

Communication disorders

3070 3079 31531 31534 31539 V401

Developmental disabilities

31501 31502 31509 31532 3155 3158

Intellectual disabilities

317 3180 3181 3182 319

Learning disorders

31500 3151 3152 3159 V400

Motor skill disorders

3154

655 Disorders usually diagnosed in infancy, childhood, or adolescence

Elimination disorders

3076 3077

Other disorders of infancy, childhood or adolescence

3073 30921 31323 31389 3139

Pervasive developmental disorders

29900 29901 29910 29911 29980 29981 29990 29991

Tic disorders

30720 30721 30722 30723

656 Impulse control disorders, NEC

31230 31231 31232 31233 31234 31235 31239

657 Mood disorders

Bipolar disorders

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

Depressive disorders

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

658 Personality disorders

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

659 Schizophrenia and other psychotic disorders

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

660 Alcohol-related disorders

2910 2911 2912 2913 2914 2915 2918 29181 29182 29189 2919

30300 30301 30302 30303 30390 30391 30392 30393 30500 30501 30502
30503 76071 9800

661 Substance-related disorders

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

662 Suicide and intentional self-inflicted injury

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

663 Screening and history of mental health and substance abuse codes

Mental health disorder related codes

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

Substance-related disorder codes

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

670 Miscellaneous disorders

Dissociative disorders

30012 30013 30014 30015 3006

Eating disorders

3071 30750 30751 30752 30753 30754 30759

Factitious disorders

30016 30019

Mental disorders due to general medical condition not elsewhere classified

29389 2939 3101

Other miscellaneous mental conditions

316 64840 64841 64842 64843 64844 V402 V403 V409 V673

Psychogenic disorders

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

Sexual and gender identify disorders

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

Sleep disorders

30740 30741 30742 30743 30744 30745 30746 30747 30748 30749

Somatoform disorders

30011 3007 30081 30082 30780 30781 30789

Attachment 2:

Sample SAS Jobs for Linking Example

1

NOTE: Copyright (c) 2002-2003 by SAS Institute Inc., Cary, NC, USA.

NOTE: SAS (r) 9.1 (TS1M3)
Licensed to WESTAT INC, Site 0009005004.

NOTE: This session is executing on the XP_PRO platform.

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:
real time 1.79 seconds
cpu time 0.09 seconds

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

NOTE: AUTOEXEC processing completed.

1 ods rtf file = 'c:\sampleA.rtf' bodytitle;
NOTE: Writing RTF Body file: c:\sampleA.rtf

2
3 ods noproctitle;
4
5 OPTIONS LS=132 PS=59;
6
7 TITLE1 "HC-110I";
8 TITLE2 "Sample SAS Job for Example A";
9
10 LIBNAME IN "C:\Data";

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

11
12 *****
13 * Calculate the expenditures for prescribed medicines associated with medical visits for asthma.
14 *****;

15
16 PROC FORMAT;
17 VALUE EVENTYPE
18 1 = "1 MVIS"
19 2 = "2 OPAT"
20 3 = "3 EROM"
21 4 = "4 STAZ"
22 5 = "5 DVIS"
23 6 = "6 OMED"
24 7 = "7 HVIS"
25 8 = "8 PMED";

NOTE: Format EVENTYPE has been output.

26
27 RUN;

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

```
28
29 *-----
30 * Get condition records coded as asthma.
31 *-----;
32 DATA ASCONDS;
33     SET IN.H112 (KEEP=CONDIDX CCCODEX);
34     IF CCCODEX="128";
35
36 RUN;
```

NOTE: There were 94246 observations read from the data set IN.H112.
NOTE: The data set WORK.ASCONDS has 1879 observations and 2 variables.
NOTE: DATA statement used (Total process time):

real time	0.28 seconds
cpu time	0.04 seconds

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

NOTE: There were 1879 observations read from the data set WORK.ASCONDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCONDS has 1879 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	0.07 seconds
cpu time	0.00 seconds

```
42
43 proc print data=asconds (obs=50);
44     title3 "sample print of work.asconds - sorted by condirx";
45     title4 "COND (H112) records where cccodex=128";
46 run;
```

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

real time	0.17 seconds
cpu time	0.03 seconds

```
47
48 PROC SORT DATA=IN.H110IF1 OUT=CLNK; BY CONDIRX; RUN;
```

NOTE: There were 302137 observations read from the data set IN.H110IF1.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.CLNK has 302137 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	3.90 seconds
cpu time	0.28 seconds

3

49

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

NOTE: There were 302137 observations read from the data set WORK.CLNK.
NOTE: There were 1879 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 6602 observations and 3 variables.
NOTE: DATA statement used (Total process time):
real time 0.09 seconds
cpu time 0.07 seconds

56

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

NOTE: There were 75 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed pages 2-3.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.43 seconds
cpu time 0.00 seconds

64

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

NOTE: There were 6602 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 6602 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 0.01 seconds
cpu time 0.00 seconds

66

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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed page 4.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.14 seconds
cpu time 0.00 seconds

71

```

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

```

NOTE: There were 6602 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 6597 observations and 2 variables.

NOTE: DATA statement used (Total process time):

```

real time      0.00 seconds
cpu time       0.00 seconds

```

```

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

```

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

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time      0.04 seconds
cpu time       0.00 seconds

```

```

82
83     *-----
84     * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
85     *-----;
86     DATA MVIS;
87         SET IN.H110G (KEEP=EVNTIDX PERWT07F SEETLKPV);
88         IF PERWT07F > 0 & SEETLKPV NE 2;
89     RUN;

```

NOTE: There were 136673 observations read from the data set IN.H110G.

NOTE: The data set WORK.MVIS has 132197 observations and 3 variables.

NOTE: DATA statement used (Total process time):

```

real time      0.07 seconds
cpu time       0.07 seconds

```

```

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

```

NOTE: There were 132197 observations read from the data set WORK.MVIS.

NOTE: SAS threaded sort was used.

NOTE: The data set WORK.MVIS has 132197 observations and 3 variables.

NOTE: PROCEDURE SORT used (Total process time):

```

real time      0.17 seconds
cpu time       0.07 seconds

```

```

92
93     *-----
94     * Identify MVIS events which were for asthma.
95     *-----;

```

```

96     DATA ASMVIS;
97         MERGE ASCLNKS (IN=INASCLNK)
98             MVIS      (IN=INMVIS KEEP=EVNTIDX);
99         BY EVNTIDX;
100        IF INASCLNK & INMVIS;
101        RUN;

```

NOTE: There were 6597 observations read from the data set WORK.ASCLNKS.
NOTE: There were 132197 observations read from the data set WORK.MVIS.
NOTE: The data set WORK.ASMVIS has 2045 observations and 2 variables.
NOTE: DATA statement used (Total process time):

real time	0.04 seconds
cpu time	0.03 seconds

```

102
103     proc print data=asmvis (obs=50);
104         format eventype eventype.;
105         title3 "sample print of work.asmvis";
106         title4 "unique evntidxs from work.asclnks that are non-telephone MVIS (HC-110G) events";
107     run;

```

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

real time	0.03 seconds
cpu time	0.01 seconds

```

108
109     *-----
110     * Get PMED IDs linked to the MVIS events which were for asthma.
111     *-----;
112     PROC SORT DATA=IN.H110IF2 OUT=RXLK; BY EVNTIDX; RUN;

```

NOTE: There were 52885 observations read from the data set IN.H110IF2.
NOTE: SAS sort was used.
NOTE: The data set WORK.RXLK has 52885 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	0.04 seconds
cpu time	0.04 seconds

```

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

```

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

real time	0.03 seconds
-----------	--------------

cpu time 0.01 seconds

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

NOTE: There were 52885 observations read from the data set WORK.RXLK.
NOTE: There were 2045 observations read from the data set WORK.ASMVIS.
NOTE: The data set WORK.PMEDIDS has 1793 observations and 3 variables.
NOTE: DATA statement used (Total process time):
real time 0.03 seconds
cpu time 0.01 seconds

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

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: The PROCEDURE PRINT printed pages 12-13.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

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

NOTE: There were 1793 observations read from the data set WORK.PMEDIDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.PMEDIDS has 1793 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 0.01 seconds
cpu time 0.00 seconds

```
139
140     proc print data=pmedids (obs=50);
141         format eventype eventype.;
142         title3 "sample print of work.pmedids - sorted by linkidx";
143     run;
```

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: The PROCEDURE PRINT printed page 14.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.03 seconds
cpu time 0.00 seconds

```

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

```

NOTE: There were 1793 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.PMEDIDS has 1735 observations and 1 variables.
NOTE: DATA statement used (Total process time):

real time	0.00 seconds
cpu time	0.00 seconds

```

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

```

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

real time	0.01 seconds
cpu time	0.01 seconds

```

154
155     *-----
156     * Get PMED records linked to MVIS events which were for asthma.
157     *-----;
158     PROC SORT DATA=IN.H110A OUT=PMED; BY LINKIDX; RUN;

```

NOTE: There were 300099 observations read from the data set IN.H110A.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.PMED has 300099 observations and 13 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	6.92 seconds
cpu time	0.59 seconds

```

159
160     DATA MVPMEDS;
161         MERGE PMED (KEEP=LINKIDX RXRECIDX RXXP07X PERWT07F RXNAME)
162             PMEDIDS (IN=A);
163         BY LINKIDX;
164         IF A;
165     RUN;

```

NOTE: There were 300099 observations read from the data set WORK.PMED.
NOTE: There were 1735 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.MVPMEDS has 4729 observations and 5 variables.
NOTE: DATA statement used (Total process time):

real time	0.10 seconds
cpu time	0.09 seconds

```
166
167   proc print data=mvpmeds (obs=200);
168       var rxrecidx rxname RXXP07X PERWT07F;
169       by linkidx;
170       id linkidx;
171       title3 "sample print of work.mvpmeds";
172       title4 "PMED (HC-110A) records for unique linkidxs in work.pmedids";
173   run;
```

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

NOTE: The PROCEDURE PRINT printed pages 16-21.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.06 seconds
cpu time	0.03 seconds

```
174
175   PROC MEANS DATA=MVPMEDS N SUM;
176       VAR RXXP07X;
177       TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";
178   RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 4729 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE MEANS printed page 22.

NOTE: PROCEDURE MEANS used (Total process time):

real time	0.12 seconds
cpu time	0.01 seconds

```
179
180   PROC MEANS DATA=MVPMEDS N SUM;
181       VAR RXXP07X;
182       WEIGHT PERWT07F;
183       TITLE3 "Total Rx expenditures associated with medical visits (excluding telephone) for asthma";
184       TITLE5 "Weighted";
185   RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 4729 observations read from the data set WORK.MVPMEDS.

NOTE: The PROCEDURE MEANS printed page 23.

NOTE: PROCEDURE MEANS used (Total process time):

real time	0.04 seconds
cpu time	0.00 seconds

```
186
187   ods rtf close;
188
```

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

NOTE: The SAS System used:

real time	16.20 seconds
cpu time	1.74 seconds

HC-110I
 Sample SAS Job for Example A
 sample print of work.asconds - sorted by condidx
 COND (H112) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	600140260030	128
2	600250160011	128
3	600420150021	128
4	600730160010	128
5	601190220021	128
6	601200400010	128
7	601280520010	128
8	601320190057	128
9	601470310042	128
10	601510250029	128
11	601540680041	128
12	601590210031	128
13	601610270070	128
14	601720130135	128
15	601880440011	128
16	601880500011	128
17	602040160074	128
18	602090280120	128
19	602320110025	128
20	602410530021	128
21	602540340014	128
22	602630240034	128
23	602800190113	128
24	602800260037	128
25	602810160112	128
26	602850570028	128
27	602850640027	128
28	603020220037	128
29	603080180025	128
30	603140370012	128
31	603330280077	128
32	603330580019	128
33	603460450066	128
34	603460510022	128
35	603830390020	128
36	604010140032	128
37	604160650018	128
38	604240510022	128
39	604390530030	128
40	604440230087	128
41	604540290026	128
42	604570180068	128
43	604590140042	128
44	604640160020	128
45	604640300034	128
46	604710170023	128
47	604720210032	128
48	604770480018	128
49	604970100037	128
50	605040240062	128

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

CONDIDX	EVNTIDX	EVENTYPE
600420150021	600420150514	8 PMED
600730160010	600730160136	8 PMED
600730160010	600730160143	8 PMED
601200400010	601200400090	8 PMED
601200400010	601200400110	8 PMED
601280520010	601280520094	8 PMED
601320190057	601320190287	8 PMED
601320190057	601320190314	1 MVIS
601320190057	601320190321	1 MVIS
601320190057	601320190338	1 MVIS
601320190057	601320190403	8 PMED
601320190057	601320190458	8 PMED
601320190057	601320190465	8 PMED
601320190057	601320190472	8 PMED
601320190057	601320190496	1 MVIS
601320190057	601320190509	1 MVIS
601320190057	601320190516	1 MVIS
601320190057	601320190523	1 MVIS
601320190057	601320190530	1 MVIS
601320190057	601320190561	8 PMED
601320190057	601320190578	8 PMED
601470310042	601470310240	8 PMED
601470310042	601470310264	8 PMED
601470310042	601470310315	8 PMED
601470310042	601470310339	8 PMED
601510250029	601510250145	8 PMED
601510250029	601510250152	8 PMED
601510250029	601510250169	8 PMED
601510250029	601510250176	1 MVIS
601510250029	601510250183	8 PMED
601510250029	601510250190	8 PMED
601510250029	601510250203	8 PMED
601590210031	601590210047	8 PMED
601610270070	601610270456	8 PMED
601610270070	601610270463	8 PMED
601610270070	601610270723	1 MVIS
601610270070	601610270730	1 MVIS
601610270070	601610270747	1 MVIS
601610270070	601610270754	1 MVIS
601610270070	601610270898	8 PMED
601610270070	601610270918	8 PMED
601720130135	601720130851	8 PMED
601720130135	601720130882	8 PMED
601720130135	601720131296	8 PMED
601720130135	601720131309	8 PMED
601880440011	601880440100	1 MVIS
601880440011	601880440117	1 MVIS
601880440011	601880440124	1 MVIS
601880440011	601880440155	8 PMED
601880440011	601880440179	8 PMED
601880440011	601880440186	8 PMED
601880500011	601880500118	8 PMED
602040160074	602040160385	8 PMED
602090280120	602090280620	1 MVIS
602090280120	602090280637	1 MVIS
602090280120	602090280644	1 MVIS
602090280120	602090280651	1 MVIS
602320110025	602320110293	1 MVIS
602320110025	602320110351	8 PMED
602320110025	602320110440	8 PMED
602320110025	602320110464	8 PMED
602320110025	602320110508	8 PMED
602630240034	602630240221	8 PMED
602630240034	602630240252	8 PMED

CONDIDX	EVNTIDX	EVENTYPE
602630240034	602630240269	8 PMED
602800190113	602800191214	3 EROM
602800190113	602800191310	8 PMED
602800190113	602800191365	8 PMED
602800190113	602800191478	1 MVIS
602800190113	602800191485	1 MVIS
602800190113	602800191865	8 PMED
602800260037	602800260362	1 MVIS
602800260037	602800260379	1 MVIS
602800260037	602800260386	3 EROM
602800260037	602800260393	4 STAZ

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

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	600420150021	600420150514	8 PMED
2	600730160010	600730160136	8 PMED
3	600730160010	600730160143	8 PMED
4	601200400010	601200400090	8 PMED
5	601200400010	601200400110	8 PMED
6	601280520010	601280520094	8 PMED
7	601320190057	601320190287	8 PMED
8	601320190057	601320190314	1 MVIS
9	601320190057	601320190321	1 MVIS
10	601320190057	601320190338	1 MVIS
11	601320190057	601320190403	8 PMED
12	601320190057	601320190458	8 PMED
13	601320190057	601320190465	8 PMED
14	601320190057	601320190472	8 PMED
15	601320190057	601320190496	1 MVIS
16	601320190057	601320190509	1 MVIS
17	601320190057	601320190516	1 MVIS
18	601320190057	601320190523	1 MVIS
19	601320190057	601320190530	1 MVIS
20	601320190057	601320190561	8 PMED
21	601320190057	601320190578	8 PMED
22	601470310042	601470310240	8 PMED
23	601470310042	601470310264	8 PMED
24	601470310042	601470310315	8 PMED
25	601470310042	601470310339	8 PMED
26	601510250029	601510250145	8 PMED
27	601510250029	601510250152	8 PMED
28	601510250029	601510250169	8 PMED
29	601510250029	601510250176	1 MVIS
30	601510250029	601510250183	8 PMED
31	601510250029	601510250190	8 PMED
32	601510250029	601510250203	8 PMED
33	601590210031	601590210047	8 PMED
34	601610270070	601610270456	8 PMED
35	601610270070	601610270463	8 PMED
36	601610270070	601610270723	1 MVIS
37	601610270070	601610270730	1 MVIS
38	601610270070	601610270747	1 MVIS
39	601610270070	601610270754	1 MVIS
40	601610270070	601610270898	8 PMED
41	601610270070	601610270918	8 PMED
42	601720130135	601720130851	8 PMED
43	601720130135	601720130882	8 PMED
44	601720130135	601720131296	8 PMED
45	601720130135	601720131309	8 PMED
46	601880440011	601880440100	1 MVIS
47	601880440011	601880440117	1 MVIS
48	601880440011	601880440124	1 MVIS
49	601880440011	601880440155	8 PMED
50	601880440011	601880440179	8 PMED

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

Obs	EVNTIDX	EVENTYPE
1	600420150514	8 PMED
2	600730160136	8 PMED
3	600730160143	8 PMED
4	601200400090	8 PMED
5	601200400110	8 PMED
6	601280520094	8 PMED
7	601320190287	8 PMED
8	601320190314	1 MVIS
9	601320190321	1 MVIS
10	601320190338	1 MVIS
11	601320190403	8 PMED
12	601320190458	8 PMED
13	601320190465	8 PMED
14	601320190472	8 PMED
15	601320190496	1 MVIS
16	601320190509	1 MVIS
17	601320190516	1 MVIS
18	601320190523	1 MVIS
19	601320190530	1 MVIS
20	601320190561	8 PMED
21	601320190578	8 PMED
22	601470310240	8 PMED
23	601470310264	8 PMED
24	601470310315	8 PMED
25	601470310339	8 PMED
26	601510250145	8 PMED
27	601510250152	8 PMED
28	601510250169	8 PMED
29	601510250176	1 MVIS
30	601510250183	8 PMED
31	601510250190	8 PMED
32	601510250203	8 PMED
33	601590210047	8 PMED
34	601610270456	8 PMED
35	601610270463	8 PMED
36	601610270723	1 MVIS
37	601610270730	1 MVIS
38	601610270747	1 MVIS
39	601610270754	1 MVIS
40	601610270898	8 PMED
41	601610270918	8 PMED
42	601720130851	8 PMED
43	601720130882	8 PMED
44	601720131296	8 PMED
45	601720131309	8 PMED
46	601880440100	1 MVIS
47	601880440117	1 MVIS
48	601880440124	1 MVIS
49	601880440155	8 PMED
50	601880440179	8 PMED

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 Sample SAS Job for Example A
 sample print of work.asmvis
 unique evtidxs from work.asclnks that are non-telephone MVIS (HC-110G) events

Obs	EVNTIDX	EVENTYPE
1	601320190314	1 MVIS
2	601320190321	1 MVIS
3	601320190338	1 MVIS
4	601320190496	1 MVIS
5	601320190509	1 MVIS
6	601320190516	1 MVIS
7	601320190523	1 MVIS
8	601320190530	1 MVIS
9	601510250176	1 MVIS
10	601610270723	1 MVIS
11	601610270730	1 MVIS
12	601610270747	1 MVIS
13	601610270754	1 MVIS
14	601880440100	1 MVIS
15	601880440117	1 MVIS
16	601880440124	1 MVIS
17	602090280620	1 MVIS
18	602090280637	1 MVIS
19	602090280644	1 MVIS
20	602090280651	1 MVIS
21	602320110293	1 MVIS
22	602800191478	1 MVIS
23	602800191485	1 MVIS
24	602800260362	1 MVIS
25	602800260379	1 MVIS
26	602800260622	1 MVIS
27	602800260646	1 MVIS
28	602800260660	1 MVIS
29	602800260800	1 MVIS
30	603020221359	1 MVIS
31	603020221366	1 MVIS
32	603080180428	1 MVIS
33	603460510187	1 MVIS
34	603830390106	1 MVIS
35	603830390113	1 MVIS
36	603830390120	1 MVIS
37	604160650084	1 MVIS
38	604160650091	1 MVIS
39	604160650135	1 MVIS
40	604240510507	1 MVIS
41	604240510514	1 MVIS
42	604390530215	1 MVIS
43	604390530222	1 MVIS
44	604390530239	1 MVIS
45	604390530246	1 MVIS
46	604720210356	1 MVIS
47	604720210483	1 MVIS
48	605040240532	1 MVIS
49	605040240549	1 MVIS
50	605300180443	1 MVIS

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Sample SAS Job for Example A
sample print of work.rx1k - sorted by evntidx
Rx+event link file records (HC-110IF2)

EVNTIDX	LINKIDX	EVENTYPE
600010290034	600010290089	1 MVIS
600040130117	600040130131	1 MVIS
600040130117	600040130148	1 MVIS
600040130117	600040130155	1 MVIS
600040130117	600040130162	1 MVIS
600040130124	600040130131	1 MVIS
600040130124	600040130148	1 MVIS
600040130124	600040130155	1 MVIS
600040130124	600040130162	1 MVIS
600040200100	600040200148	1 MVIS
600040200100	600040200155	1 MVIS
600070110238	600070110245	1 MVIS
600070110238	600070110252	1 MVIS
600070110238	600070110269	1 MVIS
600070110238	600070110276	1 MVIS
600070110238	600070110283	1 MVIS
600070280012	600070280036	1 MVIS
600070280012	600070280043	1 MVIS
600070280012	600070280050	1 MVIS
600070280067	600070280081	1 MVIS
600070280074	600070280098	1 MVIS
600070420067	600070420098	1 MVIS
600070580051	600070580075	1 MVIS
600080190106	600080190120	1 MVIS
600080190106	600080190137	1 MVIS
600080190106	600080190144	1 MVIS
600080190106	600080190151	1 MVIS
600110170178	600110170192	1 MVIS
600110170178	600110170205	1 MVIS
600110170178	600110170212	1 MVIS
600110170178	600110170229	1 MVIS
600110170178	600110170236	1 MVIS
600110170178	600110170243	1 MVIS
600110170178	600110170250	1 MVIS
600140190069	600140190090	1 MVIS
600140190076	600140190103	1 MVIS
600140190110	600140190134	1 MVIS
600140190127	600140190141	1 MVIS
600140260069	600140260076	1 MVIS
600140260069	600140260083	1 MVIS
600140260069	600140260090	1 MVIS
600170150565	600170150616	4 STAZ
600170150565	600170150623	4 STAZ
600170150565	600170150630	4 STAZ
600170150565	600170150647	4 STAZ
600170150596	600170150654	1 MVIS
600170150596	600170150661	1 MVIS
600170150596	600170150678	1 MVIS
600170150596	600170150685	1 MVIS
600170150596	600170150692	1 MVIS
600170150596	600170150705	1 MVIS
600170150596	600170150712	1 MVIS
600170150596	600170150729	1 MVIS
600170150596	600170150736	1 MVIS
600170150767	600170150849	1 MVIS
600170150774	600170150849	4 STAZ
600210100934	600210100989	1 MVIS
600220230373	600220230380	1 MVIS
600230110507	600230110552	1 MVIS
600270130043	600270130098	1 MVIS
600270130043	600270130101	1 MVIS
600270130043	600270130118	1 MVIS
600270370132	600270370194	1 MVIS
600270370214	600270370221	1 MVIS
600270370214	600270370238	1 MVIS

EVNTIDX	LINKIDX	EVENTYPE
600280180046	600280180053	2 OPAT
600280320015	600280320046	1 MVIS
600280320022	600280320053	1 MVIS
600280490039	600280490077	1 MVIS
600280490046	600280490084	1 MVIS
600280550023	600280550030	1 MVIS
600280550061	600280550143	2 OPAT
600280550085	600280550150	1 MVIS
600290130123	600290130154	1 MVIS
600290130178	600290130192	1 MVIS
600300100049	600300100087	1 MVIS
600300270169	600300270227	1 MVIS
600300270183	600300270234	1 MVIS
600300270203	600300270241	1 MVIS
600300270210	600300270258	1 MVIS
600300270210	600300270265	1 MVIS
600350100010	600350100041	1 MVIS
600350100027	600350100058	3 EROM
600370280010	600370280034	5 DVIS
600380210015	600380210039	1 MVIS
600380210015	600380210046	1 MVIS
600380210022	600380210053	1 MVIS
600380210022	600380210060	1 MVIS
600380450022	600380450039	1 MVIS
600380450022	600380450046	1 MVIS
600390120051	600390120068	1 MVIS
600390590076	600390590090	1 MVIS
600400100480	600400100620	1 MVIS
600400101010	600400101072	1 MVIS
600400101010	600400101089	1 MVIS
600400101010	600400101096	1 MVIS
600400101010	600400101109	1 MVIS
600400101010	600400101116	1 MVIS
600400101010	600400101123	1 MVIS
600400101010	600400101130	1 MVIS
600400101010	600400101147	1 MVIS
600400101010	600400101154	1 MVIS
600400101010	600400101161	1 MVIS
600400101010	600400101178	1 MVIS
600400101010	600400101185	1 MVIS
600400101010	600400101192	1 MVIS
600400101010	600400101205	1 MVIS
600400101010	600400101212	1 MVIS
600420150336	600420150456	1 MVIS
600420150590	600420150761	1 MVIS
600420150590	600420150778	1 MVIS
600420150634	600420150785	1 MVIS
600440140064	600440140071	1 MVIS
600470460074	600470460081	1 MVIS
600490130402	600490130419	1 MVIS
600520180136	600520180198	1 MVIS
600520250516	600520250561	1 MVIS
600520250523	600520250578	1 MVIS
600520250643	600520250650	1 MVIS
600540170108	600540170139	5 DVIS
600570190982	600570191081	1 MVIS
600570191214	600570191245	1 MVIS
600570191290	600570191485	1 MVIS
600570191303	600570191492	1 MVIS
600570191327	600570191505	5 DVIS
600570260095	600570260146	1 MVIS
600590340138	600590340145	3 EROM
600590340138	600590340152	3 EROM
600610190646	600610190677	5 DVIS
600610260266	600610260280	1 MVIS
600610260266	600610260297	1 MVIS
600610260266	600610260300	1 MVIS
600610330071	600610330108	1 MVIS
600620120100	600620120124	5 DVIS
600620360100	600620360124	1 MVIS
600630170189	600630170223	3 EROM

EVNTIDX	LINKIDX	EVENTYPE
600630170278	600630170312	1 MVIS
600630170285	600630170329	1 MVIS
600630170336	600630170343	1 MVIS
600630170336	600630170350	1 MVIS

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

EVNTIDX	LINKIDX	EVENTYPE
601510250176	601510250183	1 MVIS
601510250176	601510250190	1 MVIS
601510250176	601510250203	1 MVIS
601880440117	601880440155	1 MVIS
601880440117	601880440162	1 MVIS
601880440117	601880440179	1 MVIS
601880440117	601880440186	1 MVIS
602800260622	602800260704	1 MVIS
602800260622	602800260711	1 MVIS
602800260622	602800260728	1 MVIS
602800260622	602800260735	1 MVIS
602800260622	602800260742	1 MVIS
602800260622	602800260759	1 MVIS
602800260800	602800260848	1 MVIS
602800260800	602800260855	1 MVIS
603080180428	603080180459	1 MVIS
603080180428	603080180466	1 MVIS
603080180428	603080180473	1 MVIS
603460510187	603460510194	1 MVIS
603830390106	603830390137	1 MVIS
603830390106	603830390144	1 MVIS
604240510507	604240510521	1 MVIS
604240510514	604240510538	1 MVIS
604720210356	604720210414	1 MVIS
605510380195	605510380239	1 MVIS
605510380195	605510380246	1 MVIS
605510380195	605510380253	1 MVIS
605510380260	605510380284	1 MVIS
605510380260	605510380291	1 MVIS
605660121391	605660121428	1 MVIS
605660121391	605660121435	1 MVIS
605840370205	605840370212	1 MVIS
605840370205	605840370229	1 MVIS
605840370205	605840370236	1 MVIS
605840370250	605840370281	1 MVIS
605840370205	605840370298	1 MVIS
605840370301	605840370318	1 MVIS
607310102541	607310102630	1 MVIS
607990180122	607990180259	1 MVIS
607990180122	607990180266	1 MVIS
607990180122	607990180273	1 MVIS
607990180122	607990180280	1 MVIS
608720310070	608720310049	1 MVIS
608720310070	608720310056	1 MVIS
608720310087	608720310107	1 MVIS
608720310087	608720310114	1 MVIS
608720310087	608720310121	1 MVIS
608720310094	608720310138	1 MVIS
608780570042	608780570059	1 MVIS
610690470174	610690470218	1 MVIS

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

Obs	EVNTIDX	LINKIDX	EVENTYPE
1	601510250176	601510250183	1 MVIS
2	601510250176	601510250190	1 MVIS
3	601510250176	601510250203	1 MVIS
4	601880440117	601880440155	1 MVIS
5	601880440117	601880440162	1 MVIS
6	601880440117	601880440179	1 MVIS
7	601880440117	601880440186	1 MVIS
8	602800260622	602800260704	1 MVIS
9	602800260622	602800260711	1 MVIS
10	602800260622	602800260728	1 MVIS
11	602800260622	602800260735	1 MVIS
12	602800260622	602800260742	1 MVIS
13	602800260622	602800260759	1 MVIS
14	602800260800	602800260848	1 MVIS
15	602800260800	602800260855	1 MVIS
16	603080180428	603080180459	1 MVIS
17	603080180428	603080180466	1 MVIS
18	603080180428	603080180473	1 MVIS
19	603460510187	603460510194	1 MVIS
20	603830390106	603830390137	1 MVIS
21	603830390106	603830390144	1 MVIS
22	604240510507	604240510521	1 MVIS
23	604240510514	604240510538	1 MVIS
24	604720210356	604720210414	1 MVIS
25	605510380195	605510380239	1 MVIS
26	605510380195	605510380246	1 MVIS
27	605510380195	605510380253	1 MVIS
28	605510380260	605510380284	1 MVIS
29	605510380260	605510380291	1 MVIS
30	605660121391	605660121428	1 MVIS
31	605660121391	605660121435	1 MVIS
32	605840370205	605840370212	1 MVIS
33	605840370205	605840370229	1 MVIS
34	605840370205	605840370236	1 MVIS
35	605840370250	605840370281	1 MVIS
36	605840370250	605840370298	1 MVIS
37	605840370301	605840370318	1 MVIS
38	607310102541	607310102630	1 MVIS
39	607990180122	607990180259	1 MVIS
40	607990180122	607990180266	1 MVIS
41	607990180122	607990180273	1 MVIS
42	607990180122	607990180280	1 MVIS
43	608720310070	608720310049	1 MVIS
44	608720310070	608720310056	1 MVIS
45	608720310087	608720310107	1 MVIS
46	608720310087	608720310114	1 MVIS
47	608720310087	608720310121	1 MVIS
48	608720310094	608720310138	1 MVIS
49	608780570042	608780570059	1 MVIS
50	610690470174	610690470218	1 MVIS

HC-110I
Sample SAS Job for Example A
sample print of unique linkidxs in work.pmedids

Obs	LINKIDX
1	601510250183
2	601510250190
3	601510250203
4	601880440155
5	601880440162
6	601880440179
7	601880440186
8	602800260704
9	602800260711
10	602800260728
11	602800260735
12	602800260742
13	602800260759
14	602800260848
15	602800260855
16	603080180459
17	603080180466
18	603080180473
19	603460510194
20	603830390137
21	603830390144
22	604240510521
23	604240510538
24	604720210414
25	605510380239
26	605510380246
27	605510380253
28	605510380284
29	605510380291
30	605660121428
31	605660121435
32	605840370212
33	605840370229
34	605840370236
35	605840370281
36	605840370298
37	605840370318
38	607310102630
39	607990180259
40	607990180266
41	607990180273
42	607990180280
43	608720310049
44	608720310056
45	608720310107
46	608720310114
47	608720310121
48	608720310138
49	608780570059
50	610690470218

HC-1101
Sample SAS Job for Example A
sample print of work.mvpmeds
PMED (HC-110A) records for unique linkidxs in work.pmedids

LINKIDX	RXRECIDX	RXNAME	RXXP07X	PERWT07F
601510250183	601510250183001	SINGULAIR (UNIT OF USE)	110.66	8732.59
601510250183	601510250183002	SINGULAIR (UNIT OF USE)	110.66	8732.59
601510250183	601510250183003	SINGULAIR (UNIT OF USE)	110.66	8732.59
601510250190	601510250190001	ALBUTEROL	23.41	8732.59
601510250190	601510250190002	ALBUTEROL	23.41	8732.59
601510250190	601510250190003	ALBUTEROL	23.41	8732.59
601510250203	601510250203001	ADVAIR DISK	186.06	8732.59
601510250203	601510250203002	ADVAIR DISK	186.06	8732.59
601510250203	601510250203003	ADVAIR DISK	186.06	8732.59
601880440155	601880440155001	ALBUTEROL	23.13	11208.77
601880440162	601880440162001	FLUTICASONE PROPIONATE	43.91	11208.77
601880440179	601880440179001	AEROCHAMBER	52.59	11208.77
601880440186	601880440186001	AEROCHAMBER	52.59	11208.77
602800260704	602800260704001	MUCINEX	28.73	2974.09
602800260704	602800260704002	MUCINEX	28.73	2974.09
602800260711	602800260711001	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711002	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711003	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711004	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711005	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711006	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260728	602800260728001	ATROVENT HFA	79.85	2974.09
602800260728	602800260728002	ATROVENT HFA	79.85	2974.09
602800260728	602800260728003	ATROVENT HFA	79.85	2974.09
602800260728	602800260728004	ATROVENT HFA	79.85	2974.09
602800260728	602800260728005	ATROVENT HFA	79.85	2974.09
602800260728	602800260728006	ATROVENT HFA	79.85	2974.09
602800260735	602800260735001	FLOVENT HFA	111.53	2974.09
602800260735	602800260735002	FLOVENT HFA	111.53	2974.09
602800260735	602800260735003	FLOVENT HFA	111.53	2974.09
602800260735	602800260735004	FLOVENT HFA	111.53	2974.09
602800260735	602800260735005	FLOVENT HFA	111.53	2974.09
602800260735	602800260735006	FLOVENT HFA	111.53	2974.09
602800260742	602800260742001	FORTEO (DISPOSABLE, RDNA ORIGIN)	694.26	2974.09
602800260742	602800260742002	FORTEO (DISPOSABLE, RDNA ORIGIN)	694.26	2974.09
602800260742	602800260742003	FORTEO (DISPOSABLE, RDNA ORIGIN)	694.26	2974.09
602800260742	602800260742004	FORTEO (DISPOSABLE, RDNA ORIGIN)	694.26	2974.09
602800260742	602800260742005	FORTEO (DISPOSABLE, RDNA ORIGIN)	694.26	2974.09
602800260742	602800260742006	FORTEO (DISPOSABLE, RDNA ORIGIN)	694.26	2974.09
602800260759	602800260759001	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759002	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759003	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759004	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759005	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759006	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260848	602800260848001	XOPENEX HFA (200 ACTUATIONS)	43.54	2974.09
602800260848	602800260848002	XOPENEX HFA (200 ACTUATIONS)	43.54	2974.09
602800260855	602800260855001	FLOVENT HFA	111.53	2974.09
602800260855	602800260855002	FLOVENT HFA	111.53	2974.09
603080180459	603080180459001	SPIRIVA (W/HANDIHALER)	125.76	11687.12
603080180459	603080180459002	SPIRIVA (W/HANDIHALER)	125.76	11687.12
603080180459	603080180459003	SPIRIVA (W/HANDIHALER)	125.76	11687.12
603080180466	603080180466001	ADVAIR DISKUS 250/50	183.68	11687.12
603080180466	603080180466002	ADVAIR DISKUS 250/50	183.68	11687.12
603080180466	603080180466003	ADVAIR DISKUS 250/50	183.68	11687.12
603080180473	603080180473001	ALBUTEROL	8.00	11687.12
603080180473	603080180473002	ALBUTEROL	8.00	11687.12
603080180473	603080180473003	ALBUTEROL	8.00	11687.12
603460510194	603460510194001	SINGULAIR	103.33	7717.80
603830390137	603830390137001	ALBUTEROL	12.89	6243.18
603830390137	603830390137002	ALBUTEROL	12.89	6243.18
603830390137	603830390137003	ALBUTEROL	20.54	6243.18
603830390144	603830390144001	SINGULAIR	103.33	6243.18
604240510521	604240510521001	NASONEX	79.51	11477.95

LINKIDX	RXRECIDX	RXNAME	RXXP07X	PERWT07F
604240510538	604240510538001	PREDNISONE	4.83	11477.95
604720210414	604720210414001	ALBUTEROL	10.00	17999.36
605510380239	605510380239001	ASMANEX TWISTHALER (60-INHALATION)	96.06	10301.48
605510380246	605510380246001	PROAIR HFA	92.08	10301.48
605510380253	605510380253001	PREDNISONE	2.80	10301.48
605510380284	605510380284001	ADVAIR DISKUS 100/50	150.23	10301.48
605510380291	605510380291001	PREDNISONE	3.04	10301.48
605660121428	605660121428001	SINGULAIR (UNIT OF USE)	97.67	8924.35
605660121435	605660121435001	ALBUTEROL	18.46	8924.35
605840370212	605840370212001	ALBUTEROL	24.99	6961.73
605840370212	605840370212002	ALBUTEROL	24.99	6961.73
605840370229	605840370229001	ADVAIR	175.92	6961.73
605840370236	605840370236001	CIPRO HC	91.49	6961.73
605840370281	605840370281001	ALBUTEROL	31.43	6961.73
605840370281	605840370281002	ALBUTEROL	31.43	6961.73
605840370298	605840370298001	ADVAIR	175.92	6961.73
605840370298	605840370298002	ADVAIR	175.92	6961.73
605840370318	605840370318001	ALBUTEROL	24.99	6961.73
607310102630	607310102630001	PREDNISONE	2.95	24811.46
607990180259	607990180259001	NAPROXEN	20.42	3450.93
607990180259	607990180259002	NAPROXEN	20.42	3450.93
607990180259	607990180259003	NAPROXEN	20.42	3450.93
607990180259	607990180259004	NAPROXEN	20.42	3450.93
607990180259	607990180259005	NAPROXEN	20.42	3450.93
607990180266	607990180266001	PREVACID	583.17	3450.93
607990180266	607990180266002	PREVACID	583.17	3450.93
607990180266	607990180266003	PREVACID	583.17	3450.93
607990180266	607990180266004	PREVACID	583.17	3450.93
607990180266	607990180266005	PREVACID	583.17	3450.93
607990180273	607990180273001	IBUPROFEN	10.00	3450.93
607990180273	607990180273002	IBUPROFEN	10.00	3450.93
607990180273	607990180273003	IBUPROFEN	10.00	3450.93
607990180273	607990180273004	IBUPROFEN	10.00	3450.93
607990180273	607990180273005	IBUPROFEN	10.00	3450.93
607990180280	607990180280001	EFFEXOR-XR	100.86	3450.93
607990180280	607990180280002	EFFEXOR-XR	100.86	3450.93
607990180280	607990180280003	EFFEXOR-XR	100.86	3450.93
608720310049	608720310049001	ADVAIR DISKUS 500/50	240.00	3201.68
608720310049	608720310049002	ADVAIR DISKUS 500/50	240.00	3201.68
608720310056	608720310056001	FLUTICASONE PROPIONATE	43.92	3201.68
608720310056	608720310056002	FLUTICASONE PROPIONATE	41.42	3201.68
608720310107	608720310107001	ALBUTEROL SULFATE (25X3ML, LDPE)	20.88	3201.68
608720310107	608720310107002	ALBUTEROL SULFATE (25X3ML, LDPE)	20.88	3201.68
608720310107	608720310107003	ALBUTEROL SULFATE (25X3ML, LDPE)	20.88	3201.68
608720310107	608720310107004	ALBUTEROL SULFATE (25X3ML, LDPE)	20.88	3201.68
608720310107	608720310107005	ALBUTEROL SULFATE (25X3ML, LDPE)	20.88	3201.68
608720310114	608720310114001	FLUTICASONE PROPIONATE	41.42	3201.68
608720310107	608720310114002	FLUTICASONE PROPIONATE	41.42	3201.68
608720310107	608720310114003	FLUTICASONE PROPIONATE	40.00	3201.68
608720310107	608720310114004	FLUTICASONE PROPIONATE	41.42	3201.68
608720310107	608720310114005	FLUTICASONE PROPIONATE	40.00	3201.68
608720310121	608720310121001	ADVAIR DISKUS 500/50	240.00	3201.68
608720310121	608720310121002	ADVAIR DISKUS 500/50	240.00	3201.68
608720310121	608720310121003	ADVAIR DISKUS 500/50	240.00	3201.68
608720310121	608720310121004	ADVAIR DISKUS 500/50	240.00	3201.68
608720310121	608720310121005	ADVAIR DISKUS 500/50	240.00	3201.68
608720310138	608720310138001	SINGULAIR	103.33	3201.68
608720310138	608720310138002	SINGULAIR	103.33	3201.68
608780570059	608780570059001	PULMICORT RESPULES (5X6)	173.83	10095.32
610690470218	610690470218001	PEDIATAN D (SF,BUBBLEGUM)	25.95	5960.67
610690470218	610690470218002	PEDIATAN D (SF,BUBBLEGUM)	25.95	5960.67
610690470232	610690470232001	DERMA-SMOOTH/FS (SCALP OIL)	36.77	5960.67
610690470249	610690470249001	SINGULAIR	125.52	5960.67
610690470256	610690470256001	FLOXIN	101.01	5960.67
610690470263	610690470263001	PRYTHOMYCIN	9.39	5960.67
610690470287	610690470287001	ENULOSE	2.56	5960.67
610690470307	610690470307001	XOPENEX HFA (200 ACTUATIONS)	86.42	5960.67
610690470307	610690470307002	XOPENEX HFA (200 ACTUATIONS)	86.42	5960.67
611060212185	611060212185001	GABAPENTIN	8.21	13778.38
611060212185	611060212185002	GABAPENTIN	8.15	13778.38
611060212185	611060212185003	GABAPENTIN	8.15	13778.38

LINKIDX	RXRECIDX	RXNAME	RXXP07X	PERWT07F
611060212185	611060212185004	GABAPENTIN	5.06	13778.38
611060212185	611060212185005	GABAPENTIN	8.21	13778.38
611060212185	611060212185006	GABAPENTIN	8.09	13778.38
611060212192	611060212192001	FUROSEMIDE	8.00	13778.38
611060212192	611060212192002	FUROSEMIDE	8.00	13778.38
611060212192	611060212192003	FUROSEMIDE	8.00	13778.38
611060212192	611060212192004	FUROSEMIDE	8.00	13778.38
611060212192	611060212192005	FUROSEMIDE	8.00	13778.38
611060212192	611060212192006	FUROSEMIDE	8.00	13778.38
611060212212	611060212212001	PREVACID	145.79	13778.38
611060212212	611060212212002	PREVACID	145.79	13778.38
611060212212	611060212212003	PREVACID	145.79	13778.38
611060212212	611060212212004	PREVACID	145.79	13778.38
611060212212	611060212212005	PREVACID	145.79	13778.38
611060212212	611060212212006	PREVACID	145.79	13778.38
611060212229	611060212229001	PROPRANOLOL HCL	10.80	13778.38
611060212229	611060212229002	PROPRANOLOL HCL	10.80	13778.38
611060212229	611060212229003	PROPRANOLOL HCL	10.80	13778.38
611060212229	611060212229004	PROPRANOLOL HCL	10.80	13778.38
611060212229	611060212229005	PROPRANOLOL HCL	10.80	13778.38
611060212229	611060212229006	PROPRANOLOL HCL	10.80	13778.38
611060212243	611060212243001	PROAIR HFA	32.23	13778.38
611060212243	611060212243002	PROAIR HFA	30.00	13778.38
611060212243	611060212243003	PROAIR HFA	30.00	13778.38
611060212243	611060212243004	PROAIR HFA	32.23	13778.38
611060212243	611060212243005	PROAIR HFA	32.23	13778.38
611060212243	611060212243006	PROAIR HFA	30.00	13778.38
611060212250	611060212250001	LISINAPRIL	13.96	13778.38
611060212250	611060212250002	LISINAPRIL	13.96	13778.38
611060212250	611060212250003	LISINAPRIL	13.96	13778.38
611060212250	611060212250004	LISINAPRIL	13.96	13778.38
611060212250	611060212250005	LISINAPRIL	13.96	13778.38
611060212250	611060212250006	LISINAPRIL	13.96	13778.38
611060212267	611060212267001	CARBIDOPA/LEVODOPA	17.36	13778.38
611060212267	611060212267002	CARBIDOPA/LEVODOPA	17.36	13778.38
611060212267	611060212267003	CARBIDOPA/LEVODOPA	17.36	13778.38
611060212267	611060212267004	CARBIDOPA/LEVODOPA	17.36	13778.38
611060212267	611060212267005	CARBIDOPA/LEVODOPA	17.36	13778.38
611060212267	611060212267006	CARBIDOPA/LEVODOPA	17.36	13778.38
611060212274	611060212274001	ADV AIR DISKUS 100/50	144.52	13778.38
611060212274	611060212274002	ADV AIR DISKUS 100/50	144.52	13778.38
611060212274	611060212274003	ADV AIR DISKUS 100/50	144.52	13778.38
611060212274	611060212274004	ADV AIR DISKUS 100/50	144.52	13778.38
611060212274	611060212274005	ADV AIR DISKUS 100/50	144.52	13778.38
611060212274	611060212274006	ADV AIR DISKUS 100/50	144.52	13778.38
611060212281	611060212281001	VYTORIN	89.37	13778.38
611060212281	611060212281002	VYTORIN	89.37	13778.38
611060212281	611060212281003	VYTORIN	89.37	13778.38
611060212281	611060212281004	VYTORIN	89.37	13778.38
611060212281	611060212281005	VYTORIN	89.37	13778.38
611060212281	611060212281006	VYTORIN	89.37	13778.38
611060212298	611060212298001	FLUTICASONE PROPIONATE	40.76	13778.38
611060212298	611060212298002	FLUTICASONE PROPIONATE	40.76	13778.38
611060212298	611060212298003	FLUTICASONE PROPIONATE	40.76	13778.38
611060212298	611060212298004	FLUTICASONE PROPIONATE	40.76	13778.38
611060212298	611060212298005	FLUTICASONE PROPIONATE	40.76	13778.38
611060212298	611060212298006	FLUTICASONE PROPIONATE	40.76	13778.38
611060212301	611060212301001	FEXOFENADINE HCL (FILM-COATED)	40.86	13778.38
611060212301	611060212301002	FEXOFENADINE HCL (FILM-COATED)	40.86	13778.38
611060212301	611060212301003	FEXOFENADINE HCL (FILM-COATED)	40.86	13778.38
611060212301	611060212301004	FEXOFENADINE HCL (FILM-COATED)	40.86	13778.38
611060212301	611060212301005	FEXOFENADINE HCL (FILM-COATED)	40.86	13778.38
611060212301	611060212301006	FEXOFENADINE HCL (FILM-COATED)	40.86	13778.38
611060212318	611060212318001	FLOVENT HFA	111.53	13778.38
611460240064	611460240064001	PROAIR HFA	25.00	2401.79

C-110I
Sample SAS Job for Example A
Total Rx expenditures associated with medical visits (excluding telephone) for asthma

Analysis Variable : RXXP07X SUM OF PAYMENTS RXSF07X-RXOU07X (IMPUTED)	
N	Sum
4729	409852.29

C-110I
Sample SAS Job for Example A
Total Rx expenditures associated with medical visits (excluding telephone) for asthma

Weighted

Analysis Variable : RXXP07X SUM OF PAYMENTS RXSF07X-RXOU07X (IMPUTED)	
N	Sum
4729	3684494356

1

NOTE: Copyright (c) 2002-2003 by SAS Institute Inc., Cary, NC, USA.
 NOTE: SAS (r) 9.1 (TS1M3)
 Licensed to WESTAT INC, Site 0009005004.
 NOTE: This session is executing on the XP_PRO platform.

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:
 real time 1.76 seconds
 cpu time 0.21 seconds

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

NOTE: AUTOEXEC processing completed.

```

1      ods rtf file = 'c:\sampleB.rtf' bodytitle;
NOTE: Writing RTF Body file: c:\sampleB.rtf
2
3      ods noproctitle;
4
5      OPTIONS LS=132 PS=59;
6
7      TITLE1 "HC-110I";
8      TITLE2 "Sample SAS Job for Example B";
9
10     LIBNAME IN "C:\Data";

```

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

```

11
12     *****
13     * Calculate the expenditures for prescribed medicines associated with asthma.
14     *****;
15     PROC FORMAT;
16     VALUE EVENTYPE
17     1 = "1 MVIS"
18     2 = "2 OPAT"
19     3 = "3 EROM"
20     4 = "4 STAZ"
21     5 = "5 DVIS"
22     6 = "6 OMED"
23     7 = "7 HVIS"
24     8 = "8 PMED";

```

NOTE: Format EVENTYPE has been output.
 25 RUN;

NOTE: PROCEDURE FORMAT used (Total process time):
 real time 0.06 seconds
 cpu time 0.00 seconds

2

26

```

27 *-----
28 * Get condition records coded as asthma.
29 *-----;
30 DATA ASCONDS;
31     SET IN.H112 (KEEP=CONDDIX CCCODEX);
32     IF CCCODEX="128";
33     RUN;

```

NOTE: There were 94246 observations read from the data set IN.H112.
NOTE: The data set WORK.ASCONDS has 1879 observations and 2 variables.
NOTE: DATA statement used (Total process time):
real time 0.25 seconds
cpu time 0.07 seconds

34

```

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

```

NOTE: There were 1879 observations read from the data set WORK.ASCONDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCONDS has 1879 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 0.07 seconds
cpu time 0.00 seconds

39

```

40 proc print data=asconds (obs=50);
41     title3 "sample print of work.asconds - sorted by conddix";
42     title4 "COND (H112) records where cccodex=128";
43 run;

```

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
NOTE: The PROCEDURE PRINT printed page 1.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.15 seconds
cpu time 0.06 seconds

44

```

45 PROC SORT DATA=IN.H110IF1 OUT=CLNK; BY CONDDIX; RUN;

```

NOTE: There were 302137 observations read from the data set IN.H110IF1.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.CLNK has 302137 observations and 6 variables.
NOTE: PROCEDURE SORT used (Total process time):
real time 4.45 seconds
cpu time 0.37 seconds

46

```

47 DATA ASCLNKS;
48     MERGE CLNK (IN=INCLNK KEEP=CONDDIX EVNTIDX EVENTYPE)

```

```
49          ASCONDS (IN=INASCOND KEEP=CONDIDX);
50          BY CONDIDX;
51          IF INCLNK & INASCOND;
52          RUN;
```

NOTE: There were 302137 observations read from the data set WORK.CLNK.
NOTE: There were 1879 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 6602 observations and 3 variables.
NOTE: DATA statement used (Total process time):

real time	0.07 seconds
cpu time	0.07 seconds

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

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

real time	0.43 seconds
cpu time	0.01 seconds

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

NOTE: There were 6602 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 6602 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	0.00 seconds
cpu time	0.00 seconds

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

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

real time	0.03 seconds
cpu time	0.00 seconds

```
68
69          DATA ASCLNKS;
70              SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
71              BY EVNTIDX;
```

```
72     IF FIRST.EVNTIDX;
73     RUN;
```

NOTE: There were 6602 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 6597 observations and 2 variables.

NOTE: DATA statement used (Total process time):

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

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

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

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used (Total process time):

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

```
79
80     *-----
81     * Get PMED records linked to asthma condition records.
82     *-----;
83     PROC SORT DATA=IN.H110A OUT=PMED; BY LINKIDX; RUN;
```

NOTE: There were 300099 observations read from the data set IN.H110A.

NOTE: SAS threaded sort was used.

NOTE: The data set WORK.PMED has 300099 observations and 13 variables.

NOTE: PROCEDURE SORT used (Total process time):

```
real time      4.85 seconds
cpu time       0.68 seconds
```

```
84
85     DATA ASPMEDS;
86         MERGE PMED (KEEP=LINKIDX RXRECIDX RXNAME RXXP07X PERWT07F)
87             ASCLNKS (IN=INASCLNK KEEP=EVNTIDX RENAME=(EVNTIDX=LINKIDX));
88         BY LINKIDX;
89         IF INASCLNK & PERWT07F>0;
90     RUN;
```

NOTE: There were 300099 observations read from the data set WORK.PMED.

NOTE: There were 6597 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASPMEDS has 9334 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```
real time      0.10 seconds
cpu time       0.09 seconds
```

```
91
92     proc print data=aspmeds (obs=300);
93         by linkidx;
94         id linkidx;
```

```
95      var rxrecidx rxname RXXP07X PERWT07F;
96      title3 "sample print of work.aspmeds";
97      title4 "PMED (HC-110A) records which link to condition records coded as asthma";
98      run;
```

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

NOTE: The PROCEDURE PRINT printed pages 6-14.

NOTE: PROCEDURE PRINT used (Total process time):

```
real time      0.18 seconds
cpu time       0.03 seconds
```

```
99
100     PROC MEANS DATA=ASPMEDS N SUM;
101         VAR RXXP07X;
102         TITLE3 "Total Rx expenditures associated with asthma";
103     RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 9334 observations read from the data set WORK.ASPMEDS.

NOTE: The PROCEDURE MEANS printed page 15.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time      0.12 seconds
cpu time       0.01 seconds
```

```
104
105     PROC MEANS DATA=ASPMEDS N SUM;
106         VAR RXXP07X;
107         WEIGHT PERWT07F;
108         TITLE3 "Total Rx expenditures associated with asthma";
109         TITLE5 "Weighted";
110     RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 9334 observations read from the data set WORK.ASPMEDS.

NOTE: The PROCEDURE MEANS printed page 16.

NOTE: PROCEDURE MEANS used (Total process time):

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

```
111
112     ods rtf close;
113
```

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

NOTE: The SAS System used:

```
real time      14.03 seconds
cpu time       1.98 seconds
```

HC-110I
 Sample SAS Job for Example B
 sample print of work.asconds - sorted by condidx
 COND (H112) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	600140260030	128
2	600250160011	128
3	600420150021	128
4	600730160010	128
5	601190220021	128
6	601200400010	128
7	601280520010	128
8	601320190057	128
9	601470310042	128
10	601510250029	128
11	601540680041	128
12	601590210031	128
13	601610270070	128
14	601720130135	128
15	601880440011	128
16	601880500011	128
17	602040160074	128
18	602090280120	128
19	602320110025	128
20	602410530021	128
21	602540340014	128
22	602630240034	128
23	602800190113	128
24	602800260037	128
25	602810160112	128
26	602850570028	128
27	602850640027	128
28	603020220037	128
29	603080180025	128
30	603140370012	128
31	603330280077	128
32	603330580019	128
33	603460450066	128
34	603460510022	128
35	603830390020	128
36	604010140032	128
37	604160650018	128
38	604240510022	128
39	604390530030	128
40	604440230087	128
41	604540290026	128
42	604570180068	128
43	604590140042	128
44	604640160020	128
45	604640300034	128
46	604710170023	128
47	604720210032	128
48	604770480018	128
49	604970100037	128
50	605040240062	128

HC-110I
 Sample SAS Job for Example B
 sample print of work.asclnks - sorted by condidx
 events linked to asthma condition records

CONDIDX	EVNTIDX	EVENTYPE
600420150021	600420150514	8 PMED
600730160010	600730160136	8 PMED
600730160010	600730160143	8 PMED
601200400010	601200400090	8 PMED
601200400010	601200400110	8 PMED
601280520010	601280520094	8 PMED
601320190057	601320190287	8 PMED
601320190057	601320190314	1 MVIS
601320190057	601320190321	1 MVIS
601320190057	601320190338	1 MVIS
601320190057	601320190403	8 PMED
601320190057	601320190458	8 PMED
601320190057	601320190465	8 PMED
601320190057	601320190472	8 PMED
601320190057	601320190496	1 MVIS
601320190057	601320190509	1 MVIS
601320190057	601320190516	1 MVIS
601320190057	601320190523	1 MVIS
601320190057	601320190530	1 MVIS
601320190057	601320190561	8 PMED
601320190057	601320190578	8 PMED
601470310042	601470310240	8 PMED
601470310042	601470310264	8 PMED
601470310042	601470310315	8 PMED
601470310042	601470310339	8 PMED
601510250029	601510250145	8 PMED
601510250029	601510250152	8 PMED
601510250029	601510250169	8 PMED
601510250029	601510250176	1 MVIS
601510250029	601510250183	8 PMED
601510250029	601510250190	8 PMED
601510250029	601510250203	8 PMED
601590210031	601590210047	8 PMED
601610270070	601610270456	8 PMED
601610270070	601610270463	8 PMED
601610270070	601610270723	1 MVIS
601610270070	601610270730	1 MVIS
601610270070	601610270747	1 MVIS
601610270070	601610270754	1 MVIS
601610270070	601610270898	8 PMED
601610270070	601610270918	8 PMED
601720130135	601720130851	8 PMED
601720130135	601720130882	8 PMED
601720130135	601720131296	8 PMED
601720130135	601720131309	8 PMED
601880440011	601880440100	1 MVIS
601880440011	601880440117	1 MVIS
601880440011	601880440124	1 MVIS
601880440011	601880440155	8 PMED
601880440011	601880440179	8 PMED
601880440011	601880440186	8 PMED
601880500011	601880500118	8 PMED
602040160074	602040160385	8 PMED
602090280120	602090280620	1 MVIS
602090280120	602090280637	1 MVIS
602090280120	602090280644	1 MVIS
602090280120	602090280651	1 MVIS
602320110025	602320110293	1 MVIS
602320110025	602320110351	8 PMED
602320110025	602320110440	8 PMED
602320110025	602320110464	8 PMED
602320110025	602320110508	8 PMED
602630240034	602630240221	8 PMED
602320110025	602630240252	8 PMED
602320110025	602630240269	8 PMED
602800190113	602800191214	3 EROM

CONDIDX	EVNTIDX	EVENTYPE
602800190113	602800191310	8 PMED
602800190113	602800191365	8 PMED
602800190113	602800191478	1 MVIS
602800190113	602800191485	1 MVIS
602800190113	602800191865	8 PMED
602800260037	602800260362	1 MVIS
602800260037	602800260379	1 MVIS
602800260037	602800260386	3 EROM
602800260037	602800260393	4 STAZ

HC-110I
Sample SAS Job for Example B
sample print of work.asclnks - sorted by evtidx

Obs	CONDDX	EVNTIDX	EVENTYPE
1	600420150021	600420150514	8 PMED
2	600730160010	600730160136	8 PMED
3	600730160010	600730160143	8 PMED
4	601200400010	601200400090	8 PMED
5	601200400010	601200400110	8 PMED
6	601280520010	601280520094	8 PMED
7	601320190057	601320190287	8 PMED
8	601320190057	601320190314	1 MVIS
9	601320190057	601320190321	1 MVIS
10	601320190057	601320190338	1 MVIS
11	601320190057	601320190403	8 PMED
12	601320190057	601320190458	8 PMED
13	601320190057	601320190465	8 PMED
14	601320190057	601320190472	8 PMED
15	601320190057	601320190496	1 MVIS
16	601320190057	601320190509	1 MVIS
17	601320190057	601320190516	1 MVIS
18	601320190057	601320190523	1 MVIS
19	601320190057	601320190530	1 MVIS
20	601320190057	601320190561	8 PMED
21	601320190057	601320190578	8 PMED
22	601470310042	601470310240	8 PMED
23	601470310042	601470310264	8 PMED
24	601470310042	601470310315	8 PMED
25	601470310042	601470310339	8 PMED
26	601510250029	601510250145	8 PMED
27	601510250029	601510250152	8 PMED
28	601510250029	601510250169	8 PMED
29	601510250029	601510250176	1 MVIS
30	601510250029	601510250183	8 PMED
31	601510250029	601510250190	8 PMED
32	601510250029	601510250203	8 PMED
33	601590210031	601590210047	8 PMED
34	601610270070	601610270456	8 PMED
35	601610270070	601610270463	8 PMED
36	601610270070	601610270723	1 MVIS
37	601610270070	601610270730	1 MVIS
38	601610270070	601610270747	1 MVIS
39	601610270070	601610270754	1 MVIS
40	601610270070	601610270898	8 PMED
41	601610270070	601610270918	8 PMED
42	601720130135	601720130851	8 PMED
43	601720130135	601720130882	8 PMED
44	601720130135	601720131296	8 PMED
45	601720130135	601720131309	8 PMED
46	601880440011	601880440100	1 MVIS
47	601880440011	601880440117	1 MVIS
48	601880440011	601880440124	1 MVIS
49	601880440011	601880440155	8 PMED
50	601880440011	601880440179	8 PMED

HC-110I
Sample SAS Job for Example B
sample print of unique evtidxs from work.asclnks

Obs	EVNTIDX	EVENTYPE
1	600420150514	8 PMED
2	600730160136	8 PMED
3	600730160143	8 PMED
4	601200400090	8 PMED
5	601200400110	8 PMED
6	601280520094	8 PMED
7	601320190287	8 PMED
8	601320190314	1 MVIS
9	601320190321	1 MVIS
10	601320190338	1 MVIS
11	601320190403	8 PMED
12	601320190458	8 PMED
13	601320190465	8 PMED
14	601320190472	8 PMED
15	601320190496	1 MVIS
16	601320190509	1 MVIS
17	601320190516	1 MVIS
18	601320190523	1 MVIS
19	601320190530	1 MVIS
20	601320190561	8 PMED
21	601320190578	8 PMED
22	601470310240	8 PMED
23	601470310264	8 PMED
24	601470310315	8 PMED
25	601470310339	8 PMED
26	601510250145	8 PMED
27	601510250152	8 PMED
28	601510250169	8 PMED
29	601510250176	1 MVIS
30	601510250183	8 PMED
31	601510250190	8 PMED
32	601510250203	8 PMED
33	601590210047	8 PMED
34	601610270456	8 PMED
35	601610270463	8 PMED
36	601610270723	1 MVIS
37	601610270730	1 MVIS
38	601610270747	1 MVIS
39	601610270754	1 MVIS
40	601610270898	8 PMED
41	601610270918	8 PMED
42	601720130851	8 PMED
43	601720130882	8 PMED
44	601720131296	8 PMED
45	601720131309	8 PMED
46	601880440100	1 MVIS
47	601880440117	1 MVIS
48	601880440124	1 MVIS
49	601880440155	8 PMED
50	601880440179	8 PMED

HC-110I
 Sample SAS Job for Example B
 sample print of work.aspmeds
 PMED (HC-110A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP07X	PERWT07F
600420150514	600420150514001	RHINOCORT NASAL SPRAY	80.34	5685.08
600420150514	600420150514002	RHINOCORT NASAL SPRAY	80.34	5685.08
600420150514	600420150514003	RHINOCORT NASAL SPRAY	80.34	5685.08
600420150514	600420150514004	RHINOCORT NASAL SPRAY	80.34	5685.08
600730160136	600730160136001	ALBUTEROL	12.13	7362.56
600730160143	600730160143001	ADVAIR DISKUS 100/50	144.46	7362.56
601200400090	601200400090001	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400090	601200400090002	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400090	601200400090003	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400090	601200400090004	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400090	601200400090005	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400090	601200400090006	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400090	601200400090007	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400110	601200400110001	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400110	601200400110002	SINGULAIR (UNIT OF USE)	97.55	9205.09
601200400110	601200400110003	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400110	601200400110004	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400110	601200400110005	SINGULAIR (UNIT OF USE)	60.00	9205.09
601200400110	601200400110006	SINGULAIR (UNIT OF USE)	97.55	9205.09
601280520094	601280520094001	ALBUTEROL	16.69	8522.73
601320190287	601320190287001	ALBUTEROL	6.00	4671.36
601320190403	601320190403001	ED-BRON G (ORANGE)	19.25	4671.36
601320190403	601320190403002	ED-BRON G (ORANGE)	19.25	4671.36
601320190403	601320190403003	ED-BRON G (ORANGE)	19.25	4671.36
601320190403	601320190403004	ED-BRON G (ORANGE)	19.25	4671.36
601320190403	601320190403005	ED-BRON G (ORANGE)	19.25	4671.36
601320190403	601320190403006	ED-BRON G (ORANGE)	19.25	4671.36
601320190458	601320190458001	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190458	601320190458002	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190458	601320190458003	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190458	601320190458004	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190458	601320190458005	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190465	601320190465001	ADVAIR DISKUS 500/50	246.64	4671.36
601320190465	601320190465002	ADVAIR DISKUS 500/50	246.64	4671.36
601320190465	601320190465003	ADVAIR DISKUS 500/50	246.64	4671.36
601320190465	601320190465004	ADVAIR DISKUS 500/50	246.64	4671.36
601320190465	601320190465005	ADVAIR DISKUS 500/50	246.64	4671.36
601320190472	601320190472001	PROMETHAZINE WITH CODEINE (GRAPE)	18.45	4671.36
601320190472	601320190472002	PROMETHAZINE WITH CODEINE (GRAPE)	18.45	4671.36
601320190472	601320190472003	PROMETHAZINE WITH CODEINE (GRAPE)	18.45	4671.36
601320190472	601320190472004	PROMETHAZINE WITH CODEINE (GRAPE)	18.45	4671.36
601320190472	601320190472005	PROMETHAZINE WITH CODEINE (GRAPE)	18.45	4671.36
601320190561	601320190561001	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190561	601320190561002	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190561	601320190561003	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190561	601320190561004	SINGULAIR (UNIT OF USE)	97.13	4671.36
601320190561	601320190561005	SINGULAIR (UNIT OF USE)	98.28	4671.36
601320190578	601320190578001	ADVAIR DISKUS 500/50	246.64	4671.36
601320190578	601320190578002	ADVAIR DISKUS 500/50	246.64	4671.36
601320190578	601320190578003	ADVAIR DISKUS 500/50	246.64	4671.36
601320190578	601320190578004	ADVAIR DISKUS 500/50	246.64	4671.36
601320190578	601320190578005	ADVAIR DISKUS 500/50	246.64	4671.36
601470310240	601470310240001	SINGULAIR	64.39	10895.28
601470310240	601470310240002	SINGULAIR	64.39	10895.28
601470310240	601470310240003	SINGULAIR	64.39	10895.28
601470310240	601470310240004	SINGULAIR	64.39	10895.28
601470310240	601470310240005	SINGULAIR	64.39	10895.28
601470310264	601470310264001	PROVENTIL	101.77	10895.28
601470310264	601470310264002	PROVENTIL	101.77	10895.28
601470310264	601470310264003	PROVENTIL	101.77	10895.28
601470310264	601470310264004	PROVENTIL	101.77	10895.28
601470310315	601470310315001	SINGULAIR	64.39	10895.28
601470310315	601470310315002	SINGULAIR	64.39	10895.28
601470310339	601470310339001	PROVENTIL	101.77	10895.28
601510250145	601510250145001	SINGULAIR (UNIT OF USE)	109.04	8732.59
601470310315	601510250145002	SINGULAIR (UNIT OF USE)	109.04	8732.59

LINKIDX	RXRECIDX	RXNAME	RXXP07X	PERWT07F
601510250152	601510250152001	ALBUTEROL	20.27	8732.59
601510250152	601510250152002	ALBUTEROL	20.27	8732.59
601510250169	601510250169001	ADVAIR DISKUS 250/50	189.14	8732.59
601510250169	601510250169002	ADVAIR DISKUS 250/50	189.14	8732.59
601510250183	601510250183001	SINGULAIR (UNIT OF USE)	110.66	8732.59
601510250183	601510250183002	SINGULAIR (UNIT OF USE)	110.66	8732.59
601510250183	601510250183003	SINGULAIR (UNIT OF USE)	110.66	8732.59
601510250190	601510250190001	ALBUTEROL	23.41	8732.59
601510250190	601510250190002	ALBUTEROL	23.41	8732.59
601510250190	601510250190003	ALBUTEROL	23.41	8732.59
601510250203	601510250203001	ADVAIR DISK	186.06	8732.59
601510250203	601510250203002	ADVAIR DISK	186.06	8732.59
601510250203	601510250203003	ADVAIR DISK	186.06	8732.59
601590210047	601590210047001	ALBUTEROL	10.00	14889.05
601590210047	601590210047002	ALBUTEROL	10.00	14889.05
601590210047	601590210047003	ALBUTEROL	10.00	14889.05
601590210047	601590210047004	ALBUTEROL	10.00	14889.05
601590210047	601590210047005	ALBUTEROL	10.00	14889.05
601610270456	601610270456001	PROAIR HFA	34.13	17874.38
601610270456	601610270456002	PROAIR HFA	34.13	17874.38
601610270456	601610270456003	PROAIR HFA	34.13	17874.38
601610270456	601610270456004	PROAIR HFA	34.13	17874.38
601610270456	601610270456005	PROAIR HFA	34.13	17874.38
601610270463	601610270463001	ADVAIR DISKUS 250/50	181.13	17874.38
601610270463	601610270463002	ADVAIR DISKUS 250/50	181.13	17874.38
601610270463	601610270463003	ADVAIR DISKUS 250/50	181.13	17874.38
601610270463	601610270463004	ADVAIR DISKUS 250/50	181.13	17874.38
601610270463	601610270463005	ADVAIR DISKUS 250/50	181.13	17874.38
601610270898	601610270898001	PROAIR HFA	34.13	17874.38
601610270898	601610270898002	PROAIR HFA	34.13	17874.38
601610270898	601610270898003	PROAIR HFA	34.13	17874.38
601610270918	601610270918001	ADVAIR DISKUS 250/50	181.13	17874.38
601610270918	601610270918002	ADVAIR DISKUS 250/50	181.13	17874.38
601720130851	601720130851001	FLOVENT DISKUS	83.75	13085.00
601720130882	601720130882001	SEREVENT DISKUS	130.04	13085.00
601720131296	601720131296001	SEREVENT DISKUS	127.11	13085.00
601720131296	601720131296002	SEREVENT DISKUS	127.11	13085.00
601720131309	601720131309001	FLOVENT DISKUS	83.75	13085.00
601720131309	601720131309002	FLOVENT DISKUS	83.75	13085.00
601880440155	601880440155001	ALBUTEROL	23.13	11208.77
601880440179	601880440179001	AEROCHAMBER	52.59	11208.77
601880440186	601880440186001	AEROCHAMBER	52.59	11208.77
601880500118	601880500118001	ALBUTEROL	11.87	11956.55
602040160385	602040160385001	ADVAIR DISKUS 250/50	175.90	4369.50
602040160385	602040160385002	ADVAIR DISKUS 250/50	175.90	4369.50
602040160385	602040160385003	ADVAIR DISKUS 250/50	175.90	4369.50
602320110351	602320110351001	SINGULAIR (UNIT OF USE)	91.77	2450.49
602320110440	602320110440001	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110440	602320110440002	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110440	602320110440003	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110440	602320110440004	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110440	602320110440005	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110464	602320110464001	ALBUTEROL	13.70	2450.49
602320110508	602320110508001	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110508	602320110508002	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110508	602320110508003	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110508	602320110508004	SINGULAIR (UNIT OF USE)	97.13	2450.49
602320110508	602320110508005	SINGULAIR (UNIT OF USE)	97.13	2450.49
602630240221	602630240221001	SODIUM CHLORIDE	8.64	9104.25
602630240221	602630240221002	SODIUM CHLORIDE	8.64	9104.25
602630240252	602630240252001	SODIUM CHLORIDE	8.64	9104.25
602630240252	602630240252002	SODIUM CHLORIDE	8.64	9104.25
602630240252	602630240252003	SODIUM CHLORIDE	8.64	9104.25
602630240252	602630240252004	SODIUM CHLORIDE	8.64	9104.25
602630240252	602630240252005	SODIUM CHLORIDE	8.64	9104.25
602630240252	602630240252006	SODIUM CHLORIDE	8.64	9104.25
602630240269	602630240269001	ALBUTEROL	16.28	9104.25
602800191310	602800191310001	ALBUTEROL SULFATE (PF)	41.20	2005.96
602800191365	602800191365001	FLOVENT DISKUS	83.75	2005.96
602800191865	602800191865001	FLOVENT DISKUS	83.75	2005.96
602800191865	602800191865002	FLOVENT DISKUS	83.75	2005.96

LINKIDX	RXRECIDX	RXNAME	RXXP07X	PERWT07F
602800191865	602800191865003	FLOVENT DISKUS	83.75	2005.96
602800191865	602800191865004	FLOVENT DISKUS	83.75	2005.96
602800191865	602800191865005	FLOVENT DISKUS	83.75	2005.96
602800191865	602800191865006	FLOVENT DISKUS	83.75	2005.96
602800260420	602800260420001	XOPENEX HFA	50.58	2974.09
602800260437	602800260437001	ATROVENT HFA	79.85	2974.09
602800260526	602800260526001	FLOVENT HFA	111.53	2974.09
602800260526	602800260526002	FLOVENT HFA	111.53	2974.09
602800260526	602800260526003	FLOVENT HFA	111.53	2974.09
602800260526	602800260526004	FLOVENT HFA	111.53	2974.09
602800260564	602800260564001	SINGULAIR	101.31	2974.09
602800260564	602800260564002	SINGULAIR	101.31	2974.09
602800260704	602800260704001	MUCINEX	28.73	2974.09
602800260704	602800260704002	MUCINEX	28.73	2974.09
602800260711	602800260711001	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711002	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711003	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711004	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711005	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260711	602800260711006	XOPENEX HFA (200 ACTUATIONS)	46.50	2974.09
602800260728	602800260728001	ATROVENT HFA	79.85	2974.09
602800260728	602800260728002	ATROVENT HFA	79.85	2974.09
602800260728	602800260728003	ATROVENT HFA	79.85	2974.09
602800260728	602800260728004	ATROVENT HFA	79.85	2974.09
602800260728	602800260728005	ATROVENT HFA	79.85	2974.09
602800260728	602800260728006	ATROVENT HFA	79.85	2974.09
602800260735	602800260735001	FLOVENT HFA	111.53	2974.09
602800260735	602800260735002	FLOVENT HFA	111.53	2974.09
602800260735	602800260735003	FLOVENT HFA	111.53	2974.09
602800260735	602800260735004	FLOVENT HFA	111.53	2974.09
602800260735	602800260735005	FLOVENT HFA	111.53	2974.09
602800260735	602800260735006	FLOVENT HFA	111.53	2974.09
602800260759	602800260759001	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759002	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759003	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759004	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759005	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260759	602800260759006	SINGULAIR (UNIT OF USE)	98.28	2974.09
602800260848	602800260848001	XOPENEX HFA (200 ACTUATIONS)	43.54	2974.09
602800260848	602800260848002	XOPENEX HFA (200 ACTUATIONS)	43.54	2974.09
602800260855	602800260855001	FLOVENT HFA	111.53	2974.09
602800260855	602800260855002	FLOVENT HFA	111.53	2974.09
602800260913	602800260913001	SINGULAIR	102.71	2974.09
602800260913	602800260913002	SINGULAIR	102.71	2974.09
602800260937	602800260937001	MUCINEX	28.73	2974.09
602800260937	602800260937002	MUCINEX	28.73	2974.09
602810160458	602810160458001	FLOVENT DISKUS	79.95	19496.91
603020221417	603020221417001	SINGULAIR (UNIT OF USE)	98.28	11266.94
603020221417	603020221417002	SINGULAIR (UNIT OF USE)	98.28	11266.94
603080180459	603080180459001	SPIRIVA (W/HANDIHALER)	125.76	11687.12
603080180459	603080180459002	SPIRIVA (W/HANDIHALER)	125.76	11687.12
603080180459	603080180459003	SPIRIVA (W/HANDIHALER)	125.76	11687.12
603080180466	603080180466001	ADVAIR DISKUS 250/50	183.68	11687.12
603080180466	603080180466002	ADVAIR DISKUS 250/50	183.68	11687.12
603080180466	603080180466003	ADVAIR DISKUS 250/50	183.68	11687.12
603080180473	603080180473001	ALBUTEROL	8.00	11687.12
603080180473	603080180473002	ALBUTEROL	8.00	11687.12
603080180473	603080180473003	ALBUTEROL	8.00	11687.12
603080180579	603080180579001	SPIRIVA (W/ HANDIHALER)	398.24	11687.12
603080180579	603080180579002	SPIRIVA (W/ HANDIHALER)	398.24	11687.12
603080180606	603080180606001	ADVAIR DISKUS 250/50	543.40	11687.12
603080180606	603080180606002	ADVAIR DISKUS 250/50	543.40	11687.12
603140370171	603140370171001	ALLEGRA	40.25	30689.19
603140370171	603140370171002	ALLEGRA	40.25	30689.19
603330280289	603330280289001	ALBUTEROL	20.00	4239.71
603330280289	603330280289002	ALBUTEROL	20.00	4239.71
603330280467	603330280467001	PROVENTIL HFA (M.D.I.)	36.51	4239.71
603330280467	603330280467002	PROVENTIL HFA (M.D.I.)	38.14	4239.71
603330280467	603330280467003	PROVENTIL HFA (M.D.I.)	36.51	4239.71
603330580502	603330580502001	ALBUTEROL HFA	64.15	5095.79
603330580519	603330580519001	ALBUTEROL SULFATE (PF)	13.55	5095.79

LINKIDX	RXRECIDX	RXNAME	RXXP07X	PERWT07F
603330580831	603330580831001	SINGULAIR (UNIT OF USE)	100.99	5095.79
603330580831	603330580831002	SINGULAIR (UNIT OF USE)	100.99	5095.79
603330580831	603330580831003	SINGULAIR (UNIT OF USE)	100.99	5095.79
603460450237	603460450237001	ALBUTEROL	25.01	10283.95
603460450299	603460450299001	AMPHETAMINE SALT COMBO	35.17	10283.95
603460450299	603460450299002	AMPHETAMINE SALT COMBO	35.17	10283.95
603460450299	603460450299003	AMPHETAMINE SALT COMBO	35.17	10283.95
603460450299	603460450299004	AMPHETAMINE SALT COMBO	35.17	10283.95
603460450299	603460450299005	AMPHETAMINE SALT COMBO	35.17	10283.95
603460510132	603460510132001	ALBUTEROL	16.99	7717.80
603460510149	603460510149001	ALBUTEROL	5.50	7717.80
603460510156	603460510156001	PHARMAFLUR	5.10	7717.80
603460510163	603460510163001	NASACORT AQ	83.64	7717.80
603460510194	603460510194001	SINGULAIR	103.33	7717.80
603460510214	603460510214001	SINGULAIR	103.33	7717.80
603460510214	603460510214002	SINGULAIR	103.33	7717.80
603460510214	603460510214003	SINGULAIR	103.33	7717.80
603460510214	603460510214004	SINGULAIR	103.33	7717.80
603460510214	603460510214005	SINGULAIR	103.33	7717.80
603460510221	603460510221001	PULMICORT TURBUHALER	154.55	7717.80
603460510221	603460510221002	PULMICORT TURBUHALER	154.55	7717.80
603460510238	603460510238001	NASACORT AQ	83.64	7717.80
603460510245	603460510245001	ALBUTEROL	5.27	7717.80
603460510252	603460510252001	ALBUTEROL	26.25	7717.80
603460510252	603460510252002	ALBUTEROL	26.25	7717.80
603460510252	603460510252003	ALBUTEROL	26.25	7717.80
603460510252	603460510252004	ALBUTEROL	26.25	7717.80
603460510252	603460510252005	ALBUTEROL	26.25	7717.80
603830390137	603830390137001	ALBUTEROL	12.89	6243.18
603830390137	603830390137002	ALBUTEROL	12.89	6243.18
603830390137	603830390137003	ALBUTEROL	20.54	6243.18
603830390144	603830390144001	SINGULAIR	103.33	6243.18
604160650104	604160650104001	ZYRTEC	66.17	16140.79
604160650111	604160650111001	FLOVENT HFA	176.40	16140.79
604160650128	604160650128001	SINGULAIR	100.76	16140.79
604240510470	604240510470001	SINGULAIR (UNIT OF USE)	99.81	11477.95
604240510470	604240510470002	SINGULAIR (UNIT OF USE)	99.81	11477.95
604240510470	604240510470003	SINGULAIR (UNIT OF USE)	99.81	11477.95
604240510494	604240510494001	PULMICORT TURBUHALER	158.99	11477.95
604240510494	604240510494002	PULMICORT TURBUHALER	158.99	11477.95
604240510538	604240510538001	PREDNISONE	4.83	11477.95
604240510545	604240510545001	SINGULAIR (UNIT OF USE)	99.81	11477.95
604240510545	604240510545002	SINGULAIR (UNIT OF USE)	99.81	11477.95
604240510545	604240510545003	SINGULAIR (UNIT OF USE)	99.81	11477.95
604240510545	604240510545004	SINGULAIR (UNIT OF USE)	99.81	11477.95
604240510545	604240510545005	SINGULAIR (UNIT OF USE)	99.81	11477.95
604240510569	604240510569001	ALBUTEROL SULFATE (PF)	16.65	11477.95
604240510576	604240510576001	PULMICORT FLEXHALER	112.78	11477.95
604240510576	604240510576002	PULMICORT FLEXHALER	112.78	11477.95
604390530171	604390530171001	PULMICORT RESPULES (5X6)	140.70	6212.66
604390530277	604390530277001	ALBUTEROL	19.79	6212.66
604390530277	604390530277002	ALBUTEROL	19.79	6212.66
604390530284	604390530284001	FLOVENT HFA	77.20	6212.66
604440230291	604440230291001	ALBUTEROL HFA	19.80	8879.27
604440230291	604440230291002	ALBUTEROL HFA	19.80	8879.27
604590140524	604590140524001	ALBUTEROL	29.56	5007.82
604590140682	604590140682001	PROVENTIL HFA (M.D.I.)	36.51	5007.82
604590140682	604590140682002	PROVENTIL HFA (M.D.I.)	36.51	5007.82
604640300808	604640300808001	SINGULAIR (UNIT OF USE)	99.02	26532.10
604640301003	604640301003001	PROAIR HFA	92.08	26532.10
604640301027	604640301027001	SINGULAIR	99.06	26532.10
604640301027	604640301027002	SINGULAIR	99.06	26532.10
604640301027	604640301027003	SINGULAIR	99.06	26532.10
604640301027	604640301027004	SINGULAIR	99.06	26532.10
604640301027	604640301027005	SINGULAIR	99.06	26532.10
604640301027	604640301027006	SINGULAIR	99.06	26532.10
604640301027	604640301027007	SINGULAIR	99.06	26532.10
604640301027	604640301027008	SINGULAIR	99.06	26532.10
604710170325	604710170325001	QVAR	85.52	8294.27
604710170349	604710170349001	ALBUTEROL	12.20	8294.27
604720210414	604720210414001	ALBUTEROL	10.00	17999.36

LINKIDX	RXRECIDX	RXNAME	RXXP07X	PERWT07F
605040240621	605040240621001	ALBUTEROL	19.79	14084.94
605040240621	605040240621002	ALBUTEROL	19.79	14084.94
605040240621	605040240621003	ALBUTEROL	19.79	14084.94
605040240621	605040240621004	ALBUTEROL	19.79	14084.94
605040240621	605040240621005	ALBUTEROL	19.79	14084.94
605040240645	605040240645001	SPIRIVA (W/ HANDIHALER)	134.81	14084.94
605040240645	605040240645002	SPIRIVA (W/ HANDIHALER)	134.81	14084.94
605040240645	605040240645003	SPIRIVA (W/ HANDIHALER)	134.81	14084.94
605040240645	605040240645004	SPIRIVA (W/ HANDIHALER)	134.81	14084.94
605040240645	605040240645005	SPIRIVA (W/ HANDIHALER)	134.81	14084.94
605060440040	605060440040001	ALBUTEROL	16.28	7415.09
605060440088	605060440088001	ALBUTEROL	18.44	7415.09
605060440095	605060440095001	ZYRTEC	66.42	7415.09
605060440122	605060440122001	ALBUTEROL	55.45	7415.09
605110140301	605110140301001	ALBUTEROL	16.28	19335.13
605300180501	605300180501001	ALBUTEROL	37.20	12382.50
605510380239	605510380239001	ASMANEX TWISTHALER (60-INHALATION)	96.06	10301.48
605510380246	605510380246001	PROAIR HFA	92.08	10301.48
605510380253	605510380253001	PREDNISONE	2.80	10301.48
605510380284	605510380284001	ADV AIR DISKUS 100/50	150.23	10301.48
605510380291	605510380291001	PREDNISONE	3.04	10301.48

HC-110I
Sample SAS Job for Example B
Total Rx expenditures associated with asthma

Analysis Variable : RXXP07X SUM OF PAYMENTS RXSF07X-RXOU07X (IMPUTED)	
N	Sum
9334	894282.90

HC-110I
Sample SAS Job for Example B
Total Rx expenditures associated with asthma
Weighted

Analysis Variable : RXXP07X SUM OF PAYMENTS RXSF07X-RXOU07X (IMPUTED)	
N	Sum
9334	8968375727

NOTE: Copyright (c) 2002-2003 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) 9.1 (TS1M3)
Licensed to WESTAT INC, Site 0009005004.
NOTE: This session is executing on the XP_PRO platform.

NOTE: SAS 9.1.3 Service Pack 4

NOTE: SAS initialization used:
real time 1.76 seconds
cpu time 0.21 seconds

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

NOTE: AUTOEXEC processing completed.

```
1 ods rtf file = 'c:\sampleC.rtf' bodytitle;  
NOTE: Writing RTF Body file: c:\sampleC.rtf  
2  
3 ods noproctitle;  
4  
5 OPTIONS LS=132 PS=59;  
6  
7 TITLE1 "HC-110I";  
8 TITLE2 "Sample SAS Job for Example C";  
9  
10 LIBNAME IN "C:\Data";
```

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

```
11  
12 *****  
13 * Calculate the expenditures for medical visits associated with asthma.  
14 *****;  
15 PROC FORMAT;  
16 VALUE EVENTYPE  
17 1 = "1 MVIS"  
18 2 = "2 OPAT"  
19 3 = "3 EROM"  
20 4 = "4 STAZ"  
21 5 = "5 DVIS"  
22 6 = "6 OMED"  
23 7 = "7 HVIS"  
24 8 = "8 PMED";  
NOTE: Format EVENTYPE has been output.  
25 RUN;
```

NOTE: PROCEDURE FORMAT used (Total process time):
real time 0.06 seconds
cpu time 0.00 seconds

2

26

```

27 *-----
28 * Get conditions records coded as asthma.
29 *-----;
30 DATA ASCONDS;
31     SET IN.H112 (KEEP=CONDIDX CCCODEX);
32     IF CCCODEX="128";
33     RUN;

```

NOTE: There were 94246 observations read from the data set IN.H112.
 NOTE: The data set WORK.ASCONDS has 1879 observations and 2 variables.
 NOTE: DATA statement used (Total process time):
 real time 0.23 seconds
 cpu time 0.01 seconds

34

```

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

```

NOTE: There were 1879 observations read from the data set WORK.ASCONDS.
 NOTE: SAS sort was used.
 NOTE: The data set WORK.ASCONDS has 1879 observations and 2 variables.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.06 seconds
 cpu time 0.00 seconds

39

```

40 proc print data=asconds (obs=50);
41     title3 "sample print of work.asconds - sorted by condidx";
42     title4 "COND (H112) records where cccodex=128";
43 run;

```

NOTE: There were 50 observations read from the data set WORK.ASCONDS.
 NOTE: The PROCEDURE PRINT printed page 1.
 NOTE: PROCEDURE PRINT used (Total process time):
 real time 0.21 seconds
 cpu time 0.00 seconds

44

```

45 PROC SORT DATA=IN.H110IF1 OUT=CLNK; BY CONDDIX; RUN;

```

NOTE: There were 302137 observations read from the data set IN.H110IF1.
 NOTE: SAS threaded sort was used.
 NOTE: The data set WORK.CLNK has 302137 observations and 6 variables.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 1.20 seconds
 cpu time 0.21 seconds

46

```

47 DATA ASCLNKS;
48     MERGE CLNK (IN=INCLNK KEEP=CONDIDX EVNTIDX EVENTYPE)

```

```
49          ASCONDS (IN=INASCOND KEEP=CONDIDX);
50          BY CONDIDX;
51          IF INCLNK & INASCOND;
52          RUN;
```

NOTE: There were 302137 observations read from the data set WORK.CLNK.
NOTE: There were 1879 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 6602 observations and 3 variables.
NOTE: DATA statement used (Total process time):

real time	0.07 seconds
cpu time	0.06 seconds

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

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

real time	0.20 seconds
cpu time	0.00 seconds

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

NOTE: There were 6602 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 6602 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):

real time	0.01 seconds
cpu time	0.01 seconds

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

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

real time	0.04 seconds
cpu time	0.00 seconds

```
68
69          DATA ASCLNKS;
70              SET ASCLNKS (KEEP=EVNTIDX EVENTYPE);
71              BY EVNTIDX;
```

```
72     IF FIRST.EVNTIDX;
73     RUN;
```

NOTE: There were 6602 observations read from the data set WORK.ASCLNKS.

NOTE: The data set WORK.ASCLNKS has 6597 observations and 2 variables.

NOTE: DATA statement used (Total process time):

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

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

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

NOTE: The PROCEDURE PRINT printed page 5.

NOTE: PROCEDURE PRINT used (Total process time):

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

```
79
80     *-----
81     * Get non-telephone office based visits (i.e. MVIS events) for persons with positive weights.
82     *-----;
83     DATA MVIS;
84         SET IN.H110G (KEEP=EVNTIDX PERWT07F SEETLKPV OBXP07X);
85         IF PERWT07F > 0 & SEETLKPV NE 2;
86     RUN;
```

NOTE: There were 136673 observations read from the data set IN.H110G.

NOTE: The data set WORK.MVIS has 132197 observations and 4 variables.

NOTE: DATA statement used (Total process time):

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

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

NOTE: There were 132197 observations read from the data set WORK.MVIS.

NOTE: SAS threaded sort was used.

NOTE: The data set WORK.MVIS has 132197 observations and 4 variables.

NOTE: PROCEDURE SORT used (Total process time):

```
real time      0.17 seconds
cpu time       0.06 seconds
```

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

```
96         BY EVNTIDX;
97         IF INASCLNK & INMVIS;
98         RUN;
```

NOTE: There were 6597 observations read from the data set WORK.ASCLNKS.

NOTE: There were 132197 observations read from the data set WORK.MVIS.

NOTE: The data set WORK.ASMVIS has 2045 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```
real time      0.04 seconds
cpu time       0.04 seconds
```

```
99
100        proc print data=asmvis (obs=50);
101            format eventype eventype.;
102            title3 "sample print of work.asmvis";
103            title4 "unique evtidxs from work.asclnks that are non-telephone MVIS (HC-110G) events";
104        run;
```

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

NOTE: The PROCEDURE PRINT printed page 6.

NOTE: PROCEDURE PRINT used (Total process time):

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

```
105
106        PROC MEANS DATA=ASMVIS N SUM;
107            VAR OEXP07X;
108            TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
109        RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 2045 observations read from the data set WORK.ASMVIS.

NOTE: The PROCEDURE MEANS printed page 7.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time      0.10 seconds
cpu time       0.03 seconds
```

```
110
111        PROC MEANS DATA=ASMVIS N SUM;
112            VAR OEXP07X;
113            WEIGHT PERWT07F;
114            TITLE3 "Total medical visit expenditures (excluding telephone) associated with asthma";
115            TITLE5 "Weighted";
116        RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.

NOTE: There were 2045 observations read from the data set WORK.ASMVIS.

NOTE: The PROCEDURE MEANS printed page 8.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time      0.04 seconds
cpu time       0.00 seconds
```

117

```
118     ods rtf close;
119
120
```

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

NOTE: The SAS System used:

real time	5.75 seconds
cpu time	0.98 seconds

HC-110I
 Sample SAS Job for Example C
 sample print of work.asconds - sorted by condidx
 COND (H112) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	600140260030	128
2	600250160011	128
3	600420150021	128
4	600730160010	128
5	601190220021	128
6	601200400010	128
7	601280520010	128
8	601320190057	128
9	601470310042	128
10	601510250029	128
11	601540680041	128
12	601590210031	128
13	601610270070	128
14	601720130135	128
15	601880440011	128
16	601880500011	128
17	602040160074	128
18	602090280120	128
19	602320110025	128
20	602410530021	128
21	602540340014	128
22	602630240034	128
23	602800190113	128
24	602800260037	128
25	602810160112	128
26	602850570028	128
27	602850640027	128
28	603020220037	128
29	603080180025	128
30	603140370012	128
31	603330280077	128
32	603330580019	128
33	603460450066	128
34	603460510022	128
35	603830390020	128
36	604010140032	128
37	604160650018	128
38	604240510022	128
39	604390530030	128
40	604440230087	128
41	604540290026	128
42	604570180068	128
43	604590140042	128
44	604640160020	128
45	604640300034	128
46	604710170023	128
47	604720210032	128
48	604770480018	128
49	604970100037	128
50	605040240062	128

HC-110I
Sample SAS Job for Example C
sample print of work.asclnks - sorted by condidx
events linked to asthma condition records

CONDIDX	EVNTIDX	EVENTYPE
600420150021	600420150514	8 PMED
600730160010	600730160136	8 PMED
600730160010	600730160143	8 PMED
601200400010	601200400090	8 PMED
601200400010	601200400110	8 PMED
601280520010	601280520094	8 PMED
601320190057	601320190287	8 PMED
601320190057	601320190314	1 MVIS
601320190057	601320190321	1 MVIS
601320190057	601320190338	1 MVIS
601320190057	601320190403	8 PMED
601320190057	601320190458	8 PMED
601320190057	601320190465	8 PMED
601320190057	601320190472	8 PMED
601320190057	601320190496	1 MVIS
601320190057	601320190509	1 MVIS
601320190057	601320190516	1 MVIS
601320190057	601320190523	1 MVIS
601320190057	601320190530	1 MVIS
601320190057	601320190561	8 PMED
601320190057	601320190578	8 PMED
601470310042	601470310240	8 PMED
601470310042	601470310264	8 PMED
601470310042	601470310315	8 PMED
601470310042	601470310339	8 PMED
601510250029	601510250145	8 PMED
601510250029	601510250152	8 PMED
601510250029	601510250169	8 PMED
601510250029	601510250176	1 MVIS
601510250029	601510250183	8 PMED
601510250029	601510250190	8 PMED
601510250029	601510250203	8 PMED
601590210031	601590210047	8 PMED
601610270070	601610270456	8 PMED
601610270070	601610270463	8 PMED
601610270070	601610270723	1 MVIS
601610270070	601610270730	1 MVIS
601610270070	601610270747	1 MVIS
601610270070	601610270754	1 MVIS
601610270070	601610270898	8 PMED
601610270070	601610270918	8 PMED
601720130135	601720130851	8 PMED
601720130135	601720130882	8 PMED
601720130135	601720131296	8 PMED
601720130135	601720131309	8 PMED
601880440011	601880440100	1 MVIS
601880440011	601880440117	1 MVIS
601880440011	601880440124	1 MVIS
601880440011	601880440155	8 PMED
601880440011	601880440179	8 PMED
601880440011	601880440186	8 PMED
601880500011	601880500118	8 PMED
602040160074	602040160385	8 PMED
602090280120	602090280620	1 MVIS
602090280120	602090280637	1 MVIS
602090280120	602090280644	1 MVIS
602090280120	602090280651	1 MVIS
602320110025	602320110293	1 MVIS
602320110025	602320110351	8 PMED
602320110025	602320110440	8 PMED
602320110025	602320110464	8 PMED
602320110025	602320110508	8 PMED
602630240034	602630240221	8 PMED
602630240034	602630240252	8 PMED

CONDIDX	EVNTIDX	EVENTYPE
602630240034	602630240269	8 PMED
602800190113	602800191214	3 EROM
602800190113	602800191310	8 PMED
602800190113	602800191365	8 PMED
602800190113	602800191478	1 MVIS
602800190113	602800191485	1 MVIS
602800190113	602800191865	8 PMED
602800260037	602800260362	1 MVIS
602800260037	602800260379	1 MVIS
602800260037	602800260386	3 EROM
602800260037	602800260393	4 STAZ

HC-110I
Sample SAS Job for Example C
sample print of work.asclnks - sorted by evtidx

Obs	CONDDX	EVNTIDX	EVENTYPE
1	600420150021	600420150514	8 PMED
2	600730160010	600730160136	8 PMED
3	600730160010	600730160143	8 PMED
4	601200400010	601200400090	8 PMED
5	601200400010	601200400110	8 PMED
6	601280520010	601280520094	8 PMED
7	601320190057	601320190287	8 PMED
8	601320190057	601320190314	1 MVIS
9	601320190057	601320190321	1 MVIS
10	601320190057	601320190338	1 MVIS
11	601320190057	601320190403	8 PMED
12	601320190057	601320190458	8 PMED
13	601320190057	601320190465	8 PMED
14	601320190057	601320190472	8 PMED
15	601320190057	601320190496	1 MVIS
16	601320190057	601320190509	1 MVIS
17	601320190057	601320190516	1 MVIS
18	601320190057	601320190523	1 MVIS
19	601320190057	601320190530	1 MVIS
20	601320190057	601320190561	8 PMED
21	601320190057	601320190578	8 PMED
22	601470310042	601470310240	8 PMED
23	601470310042	601470310264	8 PMED
24	601470310042	601470310315	8 PMED
25	601470310042	601470310339	8 PMED
26	601510250029	601510250145	8 PMED
27	601510250029	601510250152	8 PMED
28	601510250029	601510250169	8 PMED
29	601510250029	601510250176	1 MVIS
30	601510250029	601510250183	8 PMED
31	601510250029	601510250190	8 PMED
32	601510250029	601510250203	8 PMED
33	601590210031	601590210047	8 PMED
34	601610270070	601610270456	8 PMED
35	601610270070	601610270463	8 PMED
36	601610270070	601610270723	1 MVIS
37	601610270070	601610270730	1 MVIS
38	601610270070	601610270747	1 MVIS
39	601610270070	601610270754	1 MVIS
40	601610270070	601610270898	8 PMED
41	601610270070	601610270918	8 PMED
42	601720130135	601720130851	8 PMED
43	601720130135	601720130882	8 PMED
44	601720130135	601720131296	8 PMED
45	601720130135	601720131309	8 PMED
46	601880440011	601880440100	1 MVIS
47	601880440011	601880440117	1 MVIS
48	601880440011	601880440124	1 MVIS
49	601880440011	601880440155	8 PMED
50	601880440011	601880440179	8 PMED

HC-110I
Sample SAS Job for Example C
sample print of unique evtidxs from work.asclnks

Obs	EVNTIDX	EVENTYPE
1	600420150514	8 PMED
2	600730160136	8 PMED
3	600730160143	8 PMED
4	601200400090	8 PMED
5	601200400110	8 PMED
6	601280520094	8 PMED
7	601320190287	8 PMED
8	601320190314	1 MVIS
9	601320190321	1 MVIS
10	601320190338	1 MVIS
11	601320190403	8 PMED
12	601320190458	8 PMED
13	601320190465	8 PMED
14	601320190472	8 PMED
15	601320190496	1 MVIS
16	601320190509	1 MVIS
17	601320190516	1 MVIS
18	601320190523	1 MVIS
19	601320190530	1 MVIS
20	601320190561	8 PMED
21	601320190578	8 PMED
22	601470310240	8 PMED
23	601470310264	8 PMED
24	601470310315	8 PMED
25	601470310339	8 PMED
26	601510250145	8 PMED
27	601510250152	8 PMED
28	601510250169	8 PMED
29	601510250176	1 MVIS
30	601510250183	8 PMED
31	601510250190	8 PMED
32	601510250203	8 PMED
33	601590210047	8 PMED
34	601610270456	8 PMED
35	601610270463	8 PMED
36	601610270723	1 MVIS
37	601610270730	1 MVIS
38	601610270747	1 MVIS
39	601610270754	1 MVIS
40	601610270898	8 PMED
41	601610270918	8 PMED
42	601720130851	8 PMED
43	601720130882	8 PMED
44	601720131296	8 PMED
45	601720131309	8 PMED
46	601880440100	1 MVIS
47	601880440117	1 MVIS
48	601880440124	1 MVIS
49	601880440155	8 PMED
50	601880440179	8 PMED

HC-110I
 Sample SAS Job for Example C
 sample print of work.asmvis
 unique evtidxs from work.asclnks that are non-telephone MVIS (HC-110G) events

Obs	EVNTIDX	EVENTYPE	SEETLKPV	OBXP07X	PERWT07F
1	601320190314	1 MVIS	1	39.80	4671.36
2	601320190321	1 MVIS	1	94.34	4671.36
3	601320190338	1 MVIS	1	26.27	4671.36
4	601320190496	1 MVIS	1	56.03	4671.36
5	601320190509	1 MVIS	1	56.03	4671.36
6	601320190516	1 MVIS	1	56.03	4671.36
7	601320190523	1 MVIS	1	95.34	4671.36
8	601320190530	1 MVIS	1	130.20	4671.36
9	601510250176	1 MVIS	1	56.56	8732.59
10	601610270723	1 MVIS	1	99.22	17874.38
11	601610270730	1 MVIS	1	62.50	17874.38
12	601610270747	1 MVIS	1	39.64	17874.38
13	601610270754	1 MVIS	1	58.44	17874.38
14	601880440100	1 MVIS	1	97.21	11208.77
15	601880440117	1 MVIS	1	158.81	11208.77
16	601880440124	1 MVIS	1	173.20	11208.77
17	602090280620	1 MVIS	1	55.51	14021.69
18	602090280637	1 MVIS	1	84.27	14021.69
19	602090280644	1 MVIS	1	55.51	14021.69
20	602090280651	1 MVIS	1	502.87	14021.69
21	602320110293	1 MVIS	1	56.03	2450.49
22	602800191478	1 MVIS	1	99.69	2005.96
23	602800191485	1 MVIS	1	65.19	2005.96
24	602800260362	1 MVIS	1	376.13	2974.09
25	602800260379	1 MVIS	1	99.76	2974.09
26	602800260622	1 MVIS	1	93.48	2974.09
27	602800260646	1 MVIS	1	99.76	2974.09
28	602800260660	1 MVIS	1	146.03	2974.09
29	602800260800	1 MVIS	1	81.34	2974.09
30	603020221359	1 MVIS	1	12.36	11266.94
31	603020221366	1 MVIS	1	40.35	11266.94
32	603080180428	1 MVIS	1	49.89	11687.12
33	603460510187	1 MVIS	1	126.62	7717.80
34	603830390106	1 MVIS	1	29.00	6243.18
35	603830390113	1 MVIS	1	23.58	6243.18
36	603830390120	1 MVIS	1	23.58	6243.18
37	604160650084	1 MVIS	1	15.00	16140.79
38	604160650091	1 MVIS	1	351.74	16140.79
39	604160650135	1 MVIS	1	1387.44	16140.79
40	604240510507	1 MVIS	1	470.92	11477.95
41	604240510514	1 MVIS	1	117.56	11477.95
42	604390530215	1 MVIS	1	25.83	6212.66
43	604390530222	1 MVIS	1	4.94	6212.66
44	604390530239	1 MVIS	1	0.00	6212.66
45	604390530246	1 MVIS	1	4.94	6212.66
46	604720210356	1 MVIS	1	86.35	17999.36
47	604720210483	1 MVIS	1	25.00	17999.36
48	605040240532	1 MVIS	1	205.00	14084.94
49	605040240549	1 MVIS	1	157.00	14084.94
50	605300180443	1 MVIS	1	302.00	12382.50

HC-110I
Sample SAS Job for Example C
Total medical visit expenditures (excluding telephone) associated with asthma

Analysis Variable : OBP07X	
SUM OF OBSF07X - OBOT07X	
(IMPUTED)	
N	Sum
2045	219906.41

HC-110I
Sample SAS Job for Example C
Total medical visit expenditures (excluding telephone) associated with asthma

Weighted

Analysis Variable : OBP07X	
SUM OF OBSF07X - OBOT07X	
(IMPUTED)	
N	Sum
2045	2065958051