MEPS HC-160I:
Appendix to MEPS 2013 Event Files
HC-160A - HC-160H

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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. 299a-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, insurance coverage, and health status. Using computer assisted personal interviewing (CAPI) technology, information about each household member is collected, and the survey builds on this information from interview to interview. All data for a sampled household are reported by a single household respondent.

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

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

2.0 Medical Provider Component

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

3.0 Survey Management and Data Collection

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

As soon as data collection and editing are completed, the MEPS survey data are released to the public in staged releases of summary reports, micro data files, and tables via the MEPS Web site: meps.ahrq.gov. Selected data can be analyzed through MEPSnet, a menu-driven 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 160I, which is the Appendix to MEPS releases HC-160A through HC-160H. This release contains two data files, both of which are provided in ASCII (with related SAS, SPSS, and Stata programming statements and data user information) and SAS versions: 1) the condition-event link file; and 2) the prescribed medicines event link file. Also included in this release is a PDF file of the condition-event frequency table. Note that, as of 2008, Table 2, a utilization and expenditures summary table, is no longer available.

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

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

For more information on MEPS HC survey design see T. Ezzati-Rice, et al, 1998-2007 and S. Cohen, 1996. For information on the MEPS MPC design, see S. Cohen, 1998. These reports, along with a copy of the survey instruments used to collect the information on this file, are available on the MEPS Web site at the following address: 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 2013 event-level data files. File 1, the H160F1 or CLNK file, is used for linking the MEPS Conditions file with the MEPS event files; File 2, the H160F2 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 CHA
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 (HC-160IF1) or the CLNK file, contains the variables needed to link each record on the MEPS 2013 Conditions file, HC-162, with one or more records on the MEPS 2013 event files, HC-160A, and HC-160D through HC-160H. 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 2013 Conditions file, HC-162. 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 2013 event files, HC-160B through HC-160H. (EVNTIDX is not included on the 2013 Prescribed Medicines event file, HC-160A; 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-160B
2 = OPAT – outpatient department visit event contained on MEPS release HC-160F
3 = EROM – emergency room visit event contained on MEPS release HC-160E
4 = STAZ – inpatient hospital stay event contained on MEPS release HC-160D
7 = HVIS – home health visit event contained on MEPS release HC-160H
8 = PMED – prescribed medicines event contained on MEPS release HC-160A

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 17 or Panel 18

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

File 2 (H160IF2) or the RXLK file, contains the variables needed to link each record on the MEPS 2013 Prescribed Medicines file, HC-160A, with one or more records on the MEPS 2013 event files, HC-160B and HC-160D through HC-160G. 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 2013 event files, HC-160B through HC-160G. 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-160A that 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-160A 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-160G
2 = OPAT – outpatient department visit event contained on MEPS release HC-160F
3 = EROM – emergency room visit event contained on MEPS release HC-160E
4 = STAZ – inpatient hospital stay event contained on MEPS release HC-160D
5 = DVIS – dental visit event contained on MEPS release HC-160B

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 expenses 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 17 or Panel 18.

2.5 2013 Condition-Event Frequency Table

Table 1 contains the MEPS 2013 Condition-Event Frequency table. This table contains unweighted and weighted counts of records on the MEPS 2013 event files, HC-160A through HC-160H, for each of the condition, procedure, and clinical classification codes contained on the MEPS 2013 Conditions file, HC-162. 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-162) and the Appendix to the Event Files (HC-160I) 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 2013 MEPS PUFs, these updates will not be reflected in the 2013 MEPS data.

Note that, through FY2012, for conditions related to certain medical events, the ICD-9-CM codes on the Conditions file were also released in the Prescribed Medicines, Emergency Room Visits, Office-based Medical Provider Visits, Outpatient Department Visits, and Inpatient Hospital Stays Event Files. In FY2013, ICD-9-CM condition and procedure codes variables were released only on the Conditions file. For more information on ICD-9-CM codes, see the HC-162 documentation.

3.0 Merging/Linking MEPS Data Files

This section provides information on using each of the two RXLK files, RXLK and CLNK, to link with the files contained in MEPS releases HC-162 and HC-160A through HC-160H. The linking procedure is described using several examples of deriving MEPS 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-160IF1) and RXLK (HC-160IF2) Files with the Medical Conditions File (HC-162), the Prescribed Medicines and Office-Based Medical Provider Visits Event Files (HC-160A and HC-160G)

This example calculates the total expenditures for prescribed medicines associated with office-based medical provider visits for asthma, using these files: the Conditions file (HC-162), the CLNK file (HC-160IF1), the office-based medical provider visit event file (HC-160G), the RXLK file (HC-160IF2), and the prescribed medicines event file (HC-160A). It includes the following major steps:

1. From HC-162 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-160G 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-160G 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-160A linked to those visits.

6. Using these record IDs, obtain the linked records from the HC-160A 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-160IF1) with the Medical Conditions File (HC-162) and the Prescribed Medicines Event File (HC-160A)

This example calculates the total expenditure for prescribed medicines associated with asthma, using the Conditions file (HC-162), the CLNK file (HC-160IF1) and the prescribed medicines event file (HC-160A). It includes the following major steps:

1. From HC-162 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-160A 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 (HC-160IF1) with the Medical Conditions File (HC-162) and Office-Based Medical Provider Visits Event File (HC-160G)

This example calculates the total expenditures for office-based medical provider visits associated with asthma, using the Conditions file (HC-162), the CLNK file (HC-160IF1) and the office-based medical provider visits event file (HC-160G). It includes the following major steps:

1. From HC-162 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-160G 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-160G records, identify only those visits which were for asthma and calculate the weighted mean of the expenditure variable.

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

3.4 Limitations/Caveats of the CLNK File

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

3.5 Limitations/Caveats of the RXLK File

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

3.6 National Health Interview Survey

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

With respect to methodological considerations, in 2013 MEPS introduced an effort to obtain more complete information about health care utilization from MEPS respondents with full implementation in early 2014 at the start of the final rounds of data collection for 2013. This effort likely resulted in improved data quality and a reduction in underreporting in 2013, but could have some modest impact on analyses involving trends in utilization across years.

There are also statistical factors to consider in interpreting trend analyses. 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 evaluate, smooth, or stabilize analyses of trends using MEPS data such as comparing pooled time periods (e.g. 1996-97 versus 2012-13), 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 concluding that a change has taken place when one has not.

3.8 Longitudinal Analysis

Panel-specific longitudinal files are available for downloading in the data section of the MEPS Web site. For each panel, the longitudinal file comprises MEPS survey data obtained in Rounds 1 through 5 of the panel and can be used to analyze changes over a two-year period. Variables in the file pertaining to survey administration, demographics, employment, health status, disability

days, quality of care, patient satisfaction, health insurance, and medical care use and expenditures were obtained from the MEPS full-year Consolidated files from the two years covered by that panel.

Attachment 1:

Clinical Classification Code to ICD-9-CM Code Crosswalk

Appendix A - Clinical Classification Software -DIAGNOSES (January 1980 through September 201 3)

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

1 Tuberculosis

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

2 Septicemia (except in labor)

0031	0202	0223	0362	0380	0381	03810	03811	03812	03819	0382	0383
03840	03841	03842	03843	03844	03849	0388	0389	0545	449	77181	7907
99591	99592										

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	04042	04081	04082	04089	0410	04100	04101	04102
04103	04104	04105	04109	0411	04110	04111	04112	04119	0412	0413	04142
04143	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	V097	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	57142	57149	5731	5732	5733	

7 Viral infection

0500	0501	0502	0509	0510	05101	05102	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	05810	05811
05812	05881	05882	05889	05900	05901	05909	05910	05911	05912	05919	05920
05921	05922	0598	0599	0600	0601	0650	0651	0652	0653	0654	0658
0659	0660	0661	0663	0664	06640	0609	061	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	07812	07819	0782
0783	0784	0785	0786	0787	07881	07882	07888	07889	0790	0791	0792
0793	0794	07950	07951	07952	07959	0796	0798	07981	07982	07983	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	13621	13629
	1364	1365	1368	1369	1398	V120	V1200	V1203	V1204	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	79505	79515	79519	79675	79679		

10 Immunizations and screening for infectious disease

79551	79552	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	V0253	V0254	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
V731	V732	V733	V734	V735	V736	V738	V7381	V7388	V7389	V739	V7398
V730	V7399	V740	V741	V742	V743	V744	V745	V746	V748	V749	V750
V751	V752	V753	V754	V755	V756	V757	V758	V759			

11 Cancer of head and neck

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

12 Cancer of esophagus

1500	1501	1502	1503	1504	1505	1508	1509	2301	V1003

13 Cancer of stomach

1510	1511	1512	1513	1514	1515	1516	1518	1519	20923	2302	V1004

14 Cancer of colon

1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1590	20910
20911	20912	20913	20914	20915	20916	2303	V1005				

15 Cancer of rectum and anus

1540	1541	1542	1543	1548	20917	2304	2305	2306	79670	79671	79672
79673	79674	79676	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 20900 20901 20902 20903 2307 2309 V1000
V1009

19 Cancer of bronchus; lung
1622 1623 1624 1625 1628 1629 20921 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
17300 17301 17302 17309 17310 17311 17312 17319 17320 17321 17322 17329
17332 17339 17340 17341 17342 17349 17350 17351 17352 17359 17360 17361
17362 17369 17370 17371 17372 17379 17380 17381 17382 17389 17390 17391
17392 17399 20931 20932 20933 20934 20935 20936 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 23330 23331 23332 23339 79516 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 20924 V1052 V1053

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 25802 25803 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 20030 20031 20032 20033 20034 20035 20036 20038 20041
20042 20043 20044 20045 20046 20047 20048 20051 20052 20053 20054 20055
20056 20057 20058 20060 20061 20062 20064 20065 20066 20067 20068 20070
20071 20072 20073 20074 20075 20076 20077 20078 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 20270 20271 20272 20273
20274 20275 20276 20277 20278 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
20312 2040 20400 20401 20402 2041 20410 20411 20412 2042 20420 20421
20422 2048 20480 20481 20482 2049 20490 20491 20492 2050 20500 20501
2051 20510 20511 20512 2052 20520 20521 2053 20530 20531 2058 20580
20581 20582 2059 20590 20591 2060 20600 20601 20602 2061 20610 20611
20612 2062 20620 20621 20622 2068 20680 20681 20682 2069 20690 20691
20692 2070 20700 20701 20702 2071 20710 20711 20712 2072 20720 20721
20722 2078 20780 20781 20782 2080 20800 20801 2081 20810 20811 20812
2082 20820 20821 20822 2088 20880 20881 20882 2089 20890 20891 20892
V1060 V1061 V1062 V1063 V1069

40 Multiple myeloma

2030 20300 20301 20302 2038 20380 20381

41 Cancer; other and unspecified primary

1640 1641 1642 1643 1648 1649 1760 1761 1762 1763 1764 1765
1768 1769 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909
1940 1941 1943 1944 1945 1946 1948 1949 1951 1952 1953 1954
1955 1958 20230 20231 20232 20233 20234 20235 20236 20237 20238 20250
20251 20252 20253 20254 20255 20256 20257 20258 20260 20261 20262 20263
20264 20265 20266 20267 20268 20922 20925 20926 20927 2340 2348 2349
7951 79511 79512 79513 V1029 V1081 V1084 V1088 V1089 V109 V1091 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 20971 20972 20973 20974 51181 78951

43 Malignant neoplasm without specification of site

1990 1991 1992 20920 20929 20930 20970 20975 20979

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 23773 23779 2379 2380
2381 2382 2383 2384 2385 2386 2387 23877 2388 2389 2390 2391
2392 2393 2394 2395 2396 2397 2398 23981 23989 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

20940 20941 20942 20943 20950 20951 20952 20953 20954 20955 20956 20957
20960 20961 20962 20963 20964 20965 20966 20967 20969 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

24900 25000 25001 7902 79021 79022 79029 7915 7916 V4585 V5391 V6546

50 Diabetes mellitus with complications

24901 24910 24911 24920 24921 24930 24931 24940 24941 24950 24951 24960
24961 24970 24971 24980 24981 24990 24991 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 25541 25542 2555 2556 2558 2559 2560 2561
2562 2563 2564 2568 2569 2570 2571 2572 2578 2579 2580 25801
2581 2588 2589 2590 2591 2592 2593 2594 2595 25950 25951 25952
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 27403 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 27669 2767
2768 2769 9951

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 27949 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 27503 27509 27542 27549 2758 2759
2751 2752 2753 2754 27540 27541 2771 2772 2773 2774 2775 2776
2777 2778 27781 27782 27784 27785 27786 27787 27789 2779 2780 27800
27801 27802 27803 2781 2782 2783 2784 2788 7831 7832 78321 78322
7833 7834 78340 78341 78342 78343 7835 7837 7839 7947 7957 79579

V1229 V850 V8521 V8522 V8523 V8524 V8525 V8530 V8531 V8532 V8533 V8534
V8535 V8536 V8537 V8538 V8539 V854 V8541 V8542 V8543 V8544 V8545

59 Deficiency and other anemia
2800 2801 2808 2809 2810 2811 2812 2813 2814 2818 2819 2820
2821 2822 2823 2824 28240 28243 28245 28246 28247 28249 2827 2828
2829 2830 2831 28310 28311 28319 2832 2839 2840 28411 28412 28419
2848 28481 28489 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 28653 2866 2867 2869 2870 2871 2872
2873 28730 28731 28732 28733 28739 2874 28749 2875 2878 2879 28981
28982 28984 7827

63 Diseases of white blood cells
2880 2881 2882 2883 28866 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 05821 05829 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 04611 04619 0463 04671 04672 04679
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 3315 3316 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 33700 33701
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 78072

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

33900 33901 33902 33903 33904 33905 33909 33910 33911 33912 33920 33921
33922 3393 33941 33942 33943 33944 33981 33982 33983 33984 33985 33989
3460 34600 34601 34602 34603 3461 34612 34613 34610 34611 3462 34620
34621 34622 34623 34630 34631 34632 34633 34640 34642 34643 34651 34652
34653 34670 34671 34672 34673 3468 34680 34681 34682 34683 3469 34690
34691 7840

85 Coma; stupor; and brain damage

3481 7800 78001 78003 78009

86 Cataract

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

87 Retinal detachments; defects; vascular occlusion; and retinopathy

36100 36101 36102 36103 36104 36105 36106 36107 36110 36111 36112 36113
36114 36119 3612 36130 36131 36132 36133 36181 36189 3619 36201 36202
36203 36204 36205 36206 36207 36210 36211 36212 36213 36214 36215 36216
36217 36218 36221 36222 36223 36224 36225 36226 36227 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 36506 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 36570 36571 36572 36573
36574 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 37206 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 36481 36482
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 37234 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 37927 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	38845	3885	38860	38861	38869	38870
38871	38872	3888	3889	38900	38901	38902	38903	38904	38905	38906	38908
38910	38911	38912	38913	38914	38918	3892	38921	38922	3897	3898	3899
V412	V413	V4985	V532	V721							

95 Other nervous system disorders

325	3321	32702	32715	32730	32731	32732	32733	32734	32735	32736	32737
32739	32753	33183	33720	33721	33722	33729	3410	3411	3418	3419	34461
347	34700	34701	34710	34711	3480	3482	3483	34830	34831	34839	3484
3485	3488	34881	34882	34889	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	35830	35839	3588
3589	3590	3591	3592	35921	35922	35923	35924	35929	3593	3594	3595
3596	35971	35979	3598	35981	35989	3599	7810	7811	7812	7813	7817
7818	7820	7843	7845	78451	78452	78459	78460	78461	78469	7920	7930
79400	79401	79402	79409	79410	79411	79412	79413	79414	79415	79416	79417
79419	7961	79951	79952	79953	79954	79955	79959	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 42511 42518
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
41406 4148 4149 V4581 V4582

102 Nonspecific chest pain
78650 78651 78659

103 Pulmonary heart disease
4150 4151 41512 41513 41519 4160 4161 4162 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 42682 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
34660 34661 34662 34663 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 43813 43814 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 4404 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 44770 44771 44772 44773

116 Aortic and peripheral arterial embolism or thrombosis
44409 4441 44421 44422 44481 44489 4449 44501 44502 44581 44589

117 Other circulatory disease
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 V1253 V1254 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 45351 45352 4536 45371 45372 45373
45374 45375 45376 45377 45379 4538 45382 45386 45387 4539 V1251 V1252
V1255

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 488 4880 48801 48802 48809 4881 48811 48812 48819
48881 48882 48889

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 51281 51282 51283 51284 51289
5180 5181 5182

131 Respiratory failure; insufficiency; arrest (adult)
5173 51851 51852 51853 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 5082 5088 5089

133 Other lower respiratory disease
5131 514 515 5160 5161 5162 51630 51631 51632 51633 51634 51635
51636 51637 5164 5165 51661 51662 51663 51664 51669 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 79311 79319 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 78442 78443 78444 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 52571 52572 52573 52579 5258 5259 5260 5261 5262 5263
5264 5265 52681 52689 5269 78492 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 5354 53540
53541 5355 53550 53551 5356 53560 53561 53571

141 Other disorders of stomach and duodenum

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

142 Appendicitis and other appendiceal conditions

5400 5401 5409 541 542 5430 5439

143 Abdominal hernia

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

144 Regional enteritis and ulcerative colitis

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

145 Intestinal obstruction without hernia

5600 5601 5602 56030 56031 56032 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 56943 56944 56949

148 Peritonitis and intestinal abscess

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

149 Biliary tract disease

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

150 Liver disease; alcohol -related

5710 5711 5712 5713

151 Other liver diseases

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

152 Pancreatic disorders (not diabetes)

5770 5771 5772 5778 5779 5794

153 Gastrointestinal hemorrhage

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

154 Noninfectious gastroenteritis

55841 55842 5589

155 Other gastrointestinal disorders

5581 5582 5640 56400 56401 56402 56409 5641 5645 5647 5648 56481
56489 5649 5680 56881 56882 56889 5689 56981 56982 56983 56984 56985
56986 56987 56989 5699 5790 5791 5792 5798 5799 7871 7872 78722
78723 78724 78729 7873 7874 7875 7876 78761 78762 78763 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 V5350 V5351 V5359 V551 V552 V553 V554

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

157 Acute and unspecified renal failure
5845 5846 5847 5848 5849 586

158 Chronic renal failure
585 5851 5852 5853 5854 5855 5856 5859 7925 V420 V451 V4512
V560 V561 V562 V5631 V5632 V568

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

160 Calculus of urinary tract
5920 5921 5929 5940 5941 5942 5948 5949 7880 V1301

161 Other diseases of kidney and ureters
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 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 61181 61182 61183 61189 6119 6120
6121 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 62571

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 62134 62135 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 62401 62402 62409 6241 6242 6243 6244 6245
6246 6248 6249 6250 6251 6252 6254 6255 6256 62570 62579 6258
6259 6267 6290 6291 62920 62921 62922 62923 6298 6299 79500 79501
79502 79503 79504 79507 79508 79509 V132 V1321 V1322 V1323 V1234 V1329
V557 V723

176 Contraceptive and procreative management

V157 V2501 V2502 V2503 V2509 V251 V2511 V2513 V252 V253 V2540 V2541
V2542 V2543 V2549 V255 V258 V259 V260 V261 V262 V2621 V2622 V2629
V263 V2631 V2632 V2633 V264 V2641 V2642 V2649 V2651 V2652 V268 V2681
V2682 V2689 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 6318 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 V2342 V2387

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 67810 67811 67813

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 66460 66461 66464 66480 66481 66484
66490 66491 66494

194 Forceps delivery

66950 66951

195 Other complications of birth; puerperium affecting management of mother

64970 64971 64973 64981 64982 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 67010 67012 67014
67020 67022 67024 67030 67032 67034 67080 67082 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 67800 67801 67803 67900 67901 67902 67903 67904 67910
67911 67912 67913 67914 V230 V231 V232 V233 V234 V2341 V2349 V235
V237 V238 V2381 V2382 V2383 V2384 V2385 V2386 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 V9100 V9101 V9102 V9103 V9109
V9110 V9111 V9112 V9119 V9120 V9121 V9122 V9129 V9190 V9191 V9192 V9199

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 69510 69512 69513 69514
69515 69519 6952 6953 6954 69550 69551 69552 69555 69556 69557 69558
69559 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 70720 70721 70722 70723 70724 70725
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 70441 70442 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 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
73396 73397 73398 V1351 V1352

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 72991 72992 7819 78191 78192 78194 78199
7937 V135 V1359 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
73345 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 V8821 V8822 V8829

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 74732 74740 74741 74742 74749 7475

7476 74760 74761 74762 74763 74764 74769 74781 74782 74783 74789 7479
V1365

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
V1367

215 Genitourinary congenital anomalies

7520 75210 75211 75219 7522 7523 75231 75232 75233 75234 75235 75236
75239 75240 75241 75242 75243 75244 75245 75246 75247 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 V1362

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 V1363

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 75672 75673
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 V1364 V1366 V1368 V1369

218 Liveborn

76520 76529 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 76521 76522 76523 76524 76525 76526
76527 76528 V2130 V2131 V2132 V2133 V2134 V2135

220 Intrauterine hypoxia and birth asphyxia
7680 7681 7682 7683 7684 7685 7686 76870 76871 76872 76873 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
04041 7600 7601 7602 7603 7604 7605 7606 76061 76062 76063 76064
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 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 77750 77751 77752
77753 7776 7778 7779 7780 7781 7782 7783 7784 7785 7786 7787
7788 7789 7790 7791 7792 7793 77931 77932 77933 7794 7795 7796
7797 7798 77981 77982 77983 77989 7799 78091 78092 7897 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

34939 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 81347 81350 81351 81352 81353 81354 81380 81381
81382 81383 81390 81391 81392 81393 81400 81401 81402 81403 81404 81405
81406 81407 81408 81409 81410 81411 81412 81413 81414 81415 81416 81417
81418 81419 81500 81501 81502 81503 81504 81509 81510 81511 81512 81513
81514 81519 81600 81601 81602 81603 81610 81611 81612 81613 8170 8171
8180 8181 8190 8191 9052 V5410 V5411 V5412 V5420 V5421 V5422

230 Fracture of lower limb

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

231 Other fractures

80500 80501 80502 80503 80504 80505 80506 80507 80508 80510 80511 80512
80513 80514 80515 80516 80517 80518 8052 8053 8054 8055 8056 8057
8058 8059 80700 80701 80702 80703 80704 80705 80706 80707 80708 80709
80710 80711 80712 80713 80714 80715 80716 80717 80718 80719 8072 8073
8074 8075 8076 8080 8081 8082 8083 80841 80842 80843 80844 80849
80851 80852 80853 80854 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 V1552

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

27950 27951 27952 27953 41402 41403 41404 41405 41407 44030 44031 44032
56960 56961 56969 59682 59683 62931 62932 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 99688 99689 99690 99691 99692
99693 99694 99695 99696 99699 99931 99932 99933

238 Complications of surgical procedures or medical care

27661 27783 27788 2853 28741 3490 3491 34931 41511 4294 4582 45821
45829 5121 5122 5190 51900 51901 51902 51909 53086 53087 53640 53641
53642 53649 53901 53909 53981 53989 5642 5643 5644 5696 56962 56971
56979 5793 59681 78062 78063 78066 9093 99524 9954 99586 9970 99700
99701 99702 99709 9971 9972 9973 99731 99732 99739 99741 99749 9975

99760 99761 99762 99769 99771 99772 99779 9979 99791 99799 99800 99801
99802 99809 9981 99811 99812 99813 9982 9983 99831 99832 99833 9984
9985 99851 99859 9986 9987 9988 99881 99882 99883 99889 9989 9990
9991 9992 9993 99934 99939 99941 99942 99949 99951 99952 9996 99960
99961 99962 99963 99969 9997 99970 99971 99972 99973 99974 99975 99976
99977 99978 99979 9998 99980 99981 99982 99983 99984 99985 99988 9999
V1553 V1580 V1583 V9001 V9009

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 96900 96902 96903 96904 96905 96909 9691 9692 9693 9694 9695
9696 9697 96970 96971 96972 96973 96979 9698 9699

242 Poisoning by other medications and drugs

9090 9095 9600 9601 9602 9603 9604 9605 9606 9607 9608 9609
9610 9611 9612 9613 9614 9615 9616 9617 9618 9619 9620 9621
9622 9623 9624 9625 9626 9627 9628 9629 9630 9631 9632 9633
9634 9635 9638 9639 9640 9641 9642 9643 9644 9645 9646 9647
9648 9649 96500 96501 96502 96509 9651 9654 9655 9656 96561 96569
9657 9658 9659 9660 9661 9662 9663 9664 9670 9671 9672 9673
9674 9675 9676 9678 9679 9680 9681 9682 9683 9684 9685 9686
9687 9689 9700 9701 9708 97081 97089 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 9955 99550 99551 99552 99593
99553 99554 99555 99559 99580 99581 99582 99583 99584 99585 99589 99590
99594 V155 V1551 V1559 V156 V1588 V713 V714 V715 V716 V9010 V9011
V9012 V902 V9031 V9032 V9033 V9039 V9081 V9083 V9089 V909

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 V1381 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 V2031 V2032 V600 V601 V602 V603 V604 V605 V606
V608 V6081 V6089 V609 V610 V6101 V6102 V6103 V6104 V6105 V6106 V6107
V6108 V611 V6110 V6111 V6112 V6120 V6121 V6122 V6123 V6124 V6125 V6129
V613 V6141 V6142 V6149 V616 V617 V618 V619 V620 V621 V622 V6221
V6222 V6229 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 V6801 V6809 V700 V703 V704 V705
V706 V707 V708 V709 V718 V719 V7231 V7232 V725 V726 V7262 V7263
V7269 V728 V7281 V7282 V7283 V7284 V7285 V7286 V729

257 Other aftercare
V51 V510 V518 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)

79518 79677 79678 V280 V281 V282 V283 V284 V285 V288 V2882 V2889
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 V8001
V8009 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 78064 78065 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 79921 79922
79923 79925 79929 7993 7998 79981 79882 79989 7999 V070 V072 V073
V0731 V0739 V0751 V0752 V0759 V078 V079 V131 V1389 V139 V152 V1521
V1522 V1529 V153 V1581 V1584 V1585 V1586 V1587 V1589 V159 V160 V161
V162 V163 V164 V1640 V1641 V1642 V1643 V1649 V165 V1651 V1652 V1659
V166 V167 V168 V169 V170 V171 V172 V173 V174 V1741 V1749 V175
V176 V177 V178 V1781 V1789 V180 V181 V1811 V1819 V182 V183 V184
V185 V186 V1861 V1869 V187 V188 V189 V190 V1911 V1919 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 V4986 V4987 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
V8481 V8489 V851 V8701 V8702 V8709 V8711 V8712 V8719 V872 V8731 V8732
V8739 V8741 V8742 V8743 V8744 V8745 V8746 V8749 V8801 V8802 V8803 V8811
V8812 V8901 V8902 V8903 V8904 V8905 V8909

650 Adjustment disorder

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

651 Anxiety disorder

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

652 Attention -deficit, conduct, and disruptive behavior disorder

Conduct disorder

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

Oppositional defiant disorder

31381

Attention deficit disorder / Attention deficit hyperactivity disorder
31400 31401 3141 3142 3148 3149

653 Delirium, dementia, and amnestic and other cognitive disorders
2900 29010 29011 29012 29013 29020 29021 2903 29040 29041 29042 29043
2908 2909 2930 2931 2940 2941 29410 29411 29420 29421 2948 2949
3100 3102 31081 31089 3109 3310 3311 33111 33119 3312 33182 797

654 Developmental disorders

Communication disorders
3070 3079 31531 31534 31535 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 V114 V118 V119 V154 V1541 V1542 V1549 V1582
V6285 V663 V701 V702 V7101 V7102 V7109 V790 V792 V793 V798 V799

Substance-related disorder codes

3051 30510 30511 30512 30513 3575 4255 5353 53530 53531 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 V4031 V4039 V409 V673

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

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

Sleep disorders
30740 30741 30742 30743 30744 30745 30746 30747 30748 30749

Somatoform disorders
30011 3007 30081 30082 30780 30781 30789

Attachment 2:

Sample SAS Jobs for Linking Example

```
NOTE: Copyright (c) 2002-          2010 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software 9.3 (TS1M2)
NOTE: This session is executing on the W32_7PRO  platform.



NOTE: SAS initialization used:
      real time           1.33 seconds
      cpu time            0.18 seconds


NOTE: AUTOEXEC processing beginning; file is C:\                    Program Files\       SAS\SASMISC\autoexec_93.sas.


NOTE: DATA statement used (Total process time):
      real time           0.04 seconds
      cpu time            0.04 seconds



NOTE: AUTOEXEC processing completed.

1          ods rtf file = 'C:\                          Data\  sampleA.rtf'
1         ! bodytitle;
NOTE:  Writing RTF Body file: C:\               Data\  sampleA.rtf
2
3          ods noproctitle;
4
5          OPTIONS LS=132 PS=59;
6
7          TITLE1 "HC-              160I";
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           0.00 seconds
      cpu time            0.00 seconds


28
29         *-------------------------------------------------------------------------------
30         * Get condition records coded as asthma.
31         *           -------------------------------------------------------------------------------;
32         DATA ASCONDS;
33           SET IN.H162 (KEEP=CONDIDX CCCODEX);
34           IF CCCODEX="128";
35
36         RUN;

NOTE: There were 123875 observations read from the data set IN.H162.
NOTE: The data set WORK.ASCONDS has 2469 observations and 2 variables.
NOTE: Compressing data set WORK.ASCONDS increased size by 80.00 percent.
      Compressed is 18 pages; un-                compressed would require 10 pages.
NOTE: DATA statement used (Total process time):
      real time           0.99 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 CONDIDX; RUN;

NOTE: There were 2469 observations read from the data set WORK.ASCONDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCONDS has 2469 observations and 2 variables.
NOTE: Compressing data set WORK.ASCONDS increased size by 80.00 percent.
      Compressed is 18 pages; un-                compressed would require 10 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


42
43         proc print data=asconds (obs=50);
44           title3 "sample print of work.asconds -                              sorted by condidx";
45           title4 "COND (H162) 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           0.04 seconds
      cpu time            0.04 seconds


47
48         PROC SORT DATA=IN.H160IF1 OUT=CLNK; BY CONDIDX; RUN;

NOTE: There were 357551 observations read from the data set IN.H160IF1.
```

```
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.CLNK has 357551 observations and 6 variables.
NOTE: Compressing data set WORK.CLNK increased size by 5.90 percent.
      Compressed is 6763 pages; un-              compressed would require 6386 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          1.75 seconds
      cpu time           0.64 seconds


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

NOTE: There were 357551 observations read from the data set WORK.CLNK.
NOTE: There were 2469 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7471 observations and 3 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 26.67 percent.
      Compressed is 76 pages; un-              compressed would require 60 pages.
NOTE: DATA statement used (Total process time):
      real time          0.21 seconds
      cpu time           0.21 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-         4.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.09 seconds
      cpu time           0.03 seconds


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

NOTE: There were 7471 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 7471 observations and 3 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 26.67 percent.
      Compressed is 76 pages; un-              compressed would require 60 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.01 seconds
       cpu time          0.01 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 5.
NOTE: PROCEDUREPRINT used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


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

NOTE: There were 7471 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7459 observations and 2 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 17.78 percent.
      Compressed is 53 pages; un-                compressed would require 45 pages.
NOTE: DATA statement used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 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 6.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.00 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.H160G (KEEP=EVNTIDX PERWT13F SEETLKPV);
88          IF PERWT13F > 0 & SEETLKPV NE 2;
89        RUN;

NOTE: There were 165764 observations read from the data set IN.H160G.
NOTE: The data set WORK.MVIS has 160755 observations and 3 variables.
NOTE: Compressing data set WORK.MVIS increased size by 12.84 percent.
      Compressed is 1441 pages; un-                compressed would require 1277 pages.
NOTE: DATA statement used (Total process time):
      real time          3.20 seconds
      cpu time           0.28 seconds
```

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

NOTE: There were 160755 observations read from the data set WORK.MVIS.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.MVIS has 160755 observations and 3 variables.
NOTE: Compressing data set WORK.MVIS increased size by 12.84 percent.
      Compressed is 1441 pages; un-                compressed would require 1277 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.18 seconds
      cpu time           0.20 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 7459 observations read from the data set WORK.ASCLNKS.
NOTE: There were 160755 observations read from the data set WORK.MVIS.
NOTE: The data set WORK.ASMVIS has 2101 observations and 2 variables.
NOTE: Compressing data set WORK.ASMVIS increased size by 23.08 percent.
      Compressed is 16 pages; un-                compressed would require 13 pages.
NOTE: DATA statement used (Total process time):
      real time          0.07 seconds
      cpu time           0.07 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-       160G) events";
107       run;

NOTE: There were 50 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE PRINT printed page 7.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.00 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.H160IF2 OUT=RXLK; BY EVNTIDX; RUN;

NOTE: There were 65314 observations read from the data set IN.H160IF2.
```

```
NOTE: SAS sort was used.
NOTE: The data set WORK.RXLK has 65314 observations and 6 variables.
NOTE: Compressing data set WORK.RXLK increased size by 6.08 percent.
      Compressed is 1238 pages; un-                compressed would require 1167 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.37 seconds
      cpu time           0.17 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-                              160IF2)";
121       run;

NOTE: There were 140 observations read from the data set WORK.RXLK.
NOTE: The PROCEDURE PRINT printed pages 8-         14.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.04 seconds
      cpu         time           0.04 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 65314 observations read from the data set WORK.RXLK.
NOTE: There were 2101 observations read from the data set WORK.ASMVIS.
NOTE: The data set WORK.PMEDIDS has 2142 observations and 3 variables.
NOTE: Compressing data set WORK.PMEDIDS increased size by 27.78 percent.
      Compressed is 23 pages; un-                compressed would require 18 pages.
NOTE: DATA statement used (Total process time):
      real time          0.04 seconds
      cpu time           0.04 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 15-         16.
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 2142 observations read from the data set WORK.PMEDIDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.PMEDIDS has 2142 observations and 3 variables.
NOTE: Compressing data set WORK.PMEDIDS increased size by 27.78 percent.
      Compressed is 23 pages; un-                compressed would require 18 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.00 seconds
      cpu time           0.01 seconds


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

NOTE: There were 50 observations read from the data set WORK.PMEDIDS.
NOTE: The PROCEDURE PRINT printed page 17.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


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

NOTE: Compression was disabled for data set WORK.PMEDIDS because compression overhead would increase the size of the data set.
NOTE: There were 2142 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.PMEDIDS has 2022 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 18.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.00 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.H160A OUT=PMED; BY LINKIDX; RUN;

NOTE: There were 327557 observations read from the data set IN.H160A.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.PMED has 327557 observations and 13 variables.
NOTE: Compressing data set WORK.PMED decreased size by 19.98 percent.
      Compressed is 5699 pages; un-                compressed would require 7122 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          7.90 seconds
      cpu time           1.60 seconds


159
160       DATA MVPMEDS;
161         MERGE PMED (KEEP=LINKIDX RXRECIDX  RXXP13X PERWT13F RXNAME)
162               PMEDIDS (IN=A);
163         BY LINKIDX;
164         IF A;
165       RUN;

NOTE: There were 327557 observations read from the data set WORK.PMED.
NOTE: There were       2022 observations read from the data set WORK.PMEDIDS.
NOTE: The data set WORK.MVPMEDS has 5640 observations and 5 variables.
NOTE: Compressing data set WORK.MVPMEDS decreased size by 29.41 percent.
      Compressed is 48 pages; un-                compressed would require 68 pages.
NOTE: DATA statement used (Total process time):
      real time          0.24 seconds
      cpu time           0.23 seconds


166
167       proc print data=mvpmeds (obs=200);
168         var rxrecidx rxname RXXP13X  PERWT13F;
169         by linkidx;
170         id linkidx;
171         title3 "sample print of work.mvpmeds";
172         title4 "PMED (HC-                160A) 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 19-          25.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.05 seconds
      cpu time           0.04 seconds


174
175       PROC MEANS DATA=MVPMEDS N SUM;
176         VAR RXXP13X;
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 5640 observations read from the data set WORK.MVPMEDS.
```

NOTE: The PROCEDURE MEANS printed page 26.
NOTE: PROCEDURE MEANS used (Total process time):
real time 0.13 seconds
cpu time 0.01 seconds

```
179
180       PROC MEANS DATA=MVPMEDS  N SUM;
181         VAR RXXP13X;
182         WEIGHT PERWT13F;
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 5640 observations read from the data set WORK.MVPMEDS.
NOTE: The PROCEDURE MEANS printed page 27.
NOTE: PROCEDURE MEANS used (Total process time):
real time 0.02 seconds
cpu time 0.01 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 18.67 seconds
cpu time 4.21 seconds

HC-160I

Sample SAS Job for Example A

sample print of work.asconds - sorted by condidx

COND (H162) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	200321020011	128
2	200331040011	128
3	200331080011	128
4	200341010041	128
5	200411050011	128
6	200461030011	128
7	200591010021	128
8	200591020021	128
9	200591030011	128
10	200891020081	128
11	200941010021	128
12	200941020051	128
13	200961010081	128
14	200961020021	128
15	200961030011	128
16	201091060011	128
17	201391010061	128
18	201501020021	128
19	201731020021	128
20	201751010042	128
21	201751010062	128
22	201781010031	128
23	201791020011	128
24	201921020051	128
25	202221010031	128
26	202301020021	128
27	202301030011	128
28	202301050061	128
29	202541010021	128
30	202551030021	128
31	202571010021	128
32	202621020042	128
33	202621060012	128
34	202641010041	128
35	202641010061	128
36	202781020011	128
37	202831040011	128
38	202831040021	128
39	202851040011	128
40	202971030011	128
41	203141030011	128
42	203341010051	128
43	203411010021	128
44	203451020021	128
45	203451030011	128
46	203591010041	128
47	203661020011	128
48	203921010051	128
49	203951020021	128
50	204191040061	128

HC-160I

Sample SAS Job for Example A

sample print of work.asclnks - sorted by condidx

events linked to asthma condition records

CONDIDX	EVNTIDX	EVENTYPE
200331040011	200331040011	8 PMED
200331080011	200331080011	1 MVIS
200331080011	200331080021	8 PMED
200331080011	200331080031	8 PMED
200341010041	200341010771	1 MVIS
200411050011	200411050151	8 PMED
200411050011	200411050161	8 PMED
200411050011	200411050171	8 PMED
200461030011	200461030031	8 PMED
200591010021	200591010531	8 PMED
200591030011	200591030151	8 PMED
200591030011	200591030181	8 PMED
200941010021	200941010271	8 PMED
200941010021	200941010431	8 PMED
200941020051	200941020231	7 HVIS
200941020051	200941020381	7 HVIS
200961010081	200961010441	1 MVIS
200961010081	200961011161	1 MVIS
200961010081	200961011171	1 MVIS
200961010081	200961011181	1 MVIS
200961020021	200961020071	1 MVIS
200961020021	200961020101	8 PMED
200961020021	200961020111	8 PMED
201391010061	201391010681	1 MVIS
201391010061	201391010691	1 MVIS
201391010061	201391010701	1 MVIS
201391010061	201391010721	1 MVIS
201391010061	201391010731	1 MVIS
201391010061	201391010741	1 MVIS
201391010061	201391010751	1 MVIS
201391010061	201391010991	8 PMED
201391010061	201391011101	8 PMED
201501020021	201501020391	8 PMED
201501020021	201501020401	8 PMED
201731020021	201731020261	8 PMED
201731020021	201731020381	1 MVIS
201731020021	201731020431	8 PMED
201731020021	201731020461	8 PMED
201731020021	201731020491	1 MVIS
201731020021	201731020521	8 PMED
201731020021	201731020531	8 PMED
201751010042	201751010142	8 PMED
201751010062	201751010132	1 MVIS
201781010031	201781010611	8 PMED
201791020011	201791020041	8 PMED
201791020011	201791020061	8 PMED
201791020011	201791020101	8 PMED
201921020051	201921020091	1 MVIS
201921020051	201921020661	8 PMED
201921020051	201921020781	8 PMED
202301020021	202301020021	1 MVIS
202301020021	202301020031	8 PMED
202301020021	202301020041	8 PMED
202301030011	202301030021	1 MVIS
202301030011	202301030041	8 PMED
202301030011	202301030051	8 PMED
202301030011	202301030061	1 MVIS
202301030011	202301030081	8 PMED
202301030011	202301030091	8 PMED
202301030011	202301030101	8 PMED
202301030011	202301030111	8 PMED
202301030011	202301030121	8 PMED
202301030011	202301030131	8 PMED
202301050061	202301050131	1 MVIS

CONDIDX	EVNTIDX	EVENTYPE
202301050061	202301050141	1 MVIS
202301050061	202301050151	1 MVIS
202301050061	202301050181	8 PMED
202301050061	202301050251	8 PMED
202541010021	202541010381	1 MVIS
202541010021	202541010391	1 MVIS
202541010021	202541010411	8 PMED
202541010021	202541010461	8 PMED
202551030021	202551030051	8 PMED
202621020042	202621020192	7 HVIS
202621020042	202621020222	1 MVIS

Sample SAS Job for Example A

sample print of work.asclnks - sorted by evntidx

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	200331040011	200331040011	8 PMED
2	200331080011	200331080011	1 MVIS
3	200331080011	200331080021	8 PMED
4	200331080011	200331080031	8 PMED
5	200341010041	200341010771	1 MVIS
6	200411050011	200411050151	8 PMED
7	200411050011	200411050161	8 PMED
8	200411050011	200411050171	8 PMED
9	200461030011	200461030031	8 PMED
10	200591010021	200591010531	8 PMED
11	200591030011	200591030151	8 PMED
12	200591030011	200591030181	8 PMED
13	200941010021	200941010271	8 PMED
14	200941010021	200941010431	8 PMED
15	200941020051	200941020231	7 HVIS
16	200941020051	200941020381	7 HVIS
17	200961010081	200961010441	1 MVIS
18	200961010081	200961011161	1 MVIS
19	200961010081	200961011171	1 MVIS
20	200961010081	200961011181	1 MVIS
21	200961020021	200961020071	1 MVIS
22	200961020021	200961020101	8 PMED
23	200961020021	200961020111	8 PMED
24	201391010061	201391010681	1 MVIS
25	201391010061	201391010691	1 MVIS
26	201391010061	201391010701	1 MVIS
27	201391010061	201391010721	1 MVIS
28	201391010061	201391010731	1 MVIS
29	201391010061	201391010741	1 MVIS
30	201391010061	201391010751	1 MVIS
31	201391010061	201391010991	8 PMED
32	201391010061	201391011101	8 PMED
33	201501020021	201501020391	8 PMED
34	201501020021	201501020401	8 PMED
35	201731020021	201731020261	8 PMED
36	201731020021	201731020381	1 MVIS
37	201731020021	201731020431	8 PMED
38	201731020021	201731020461	8 PMED
39	201731020021	201731020491	1 MVIS
40	201731020021	201731020521	8 PMED
41	201731020021	201731020531	8 PMED
42	201751010062	201751010132	1 MVIS
43	201751010042	201751010142	8 PMED
44	201781010031	201781010611	8 PMED
45	201791020011	201791020041	8 PMED
46	201791020011	201791020061	8 PMED
47	201791020011	201791020101	8 PMED
48	201921020051	201921020091	1 MVIS
49	201921020051	201921020661	8 PMED
50	201921020051	201921020781	8 PMED

Sample SAS Job for Example A

sample print of unique evntidxs from work.asclnks

Obs	EVNTIDX	EVENTYPE
1	200331040011	8 PMED
2	200331080011	1 MVIS
3	200331080021	8 PMED
4	200331080031	8 PMED
5	200341010771	1 MVIS
6	200411050151	8 PMED
7	200411050161	8 PMED
8	200411050171	8 PMED
9	200461030031	8 PMED
10	200591010531	8 PMED
11	200591030151	8 PMED
12	200591030181	8 PMED
13	200941010271	8 PMED
14	200941010431	8 PMED
15	200941020231	7 HVIS
16	200941020381	7 HVIS
17	200961010441	1 MVIS
18	200961011161	1 MVIS
19	200961011171	1 MVIS
20	200961011181	1 MVIS
21	200961020071	1 MVIS
22	200961020101	8 PMED
23	200961020111	8 PMED
24	201391010681	1 MVIS
25	201391010691	1 MVIS
26	201391010701	1 MVIS
27	201391010721	1 MVIS
28	201391010731	1 MVIS
29	201391010741	1 MVIS
30	201391010751	1 MVIS
31	201391010991	8 PMED
32	201391011101	8 PMED
33	201501020391	8 PMED
34	201501020401	8 PMED
35	201731020261	8 PMED
36	201731020381	1 MVIS
37	201731020431	8 PMED
38	201731020461	8 PMED
39	201731020491	1 MVIS
40	201731020521	8 PMED
41	201731020531	8 PMED
42	201751010132	1 MVIS
43	201751010142	8 PMED
44	201781010611	8 PMED
45	201791020041	8 PMED
46	201791020061	8 PMED
47	201791020101	8 PMED
48	201921020091	1 MVIS
49	201921020661	8 PMED
50	201921020781	8 PMED

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Sample SAS Job for Example A

sample print of work.asmvis

unique evntidxs from work.asclnks that are non- telephone MVIS (HC- 160G) events

Obs	EVNTIDX	EVENTYPE
1	200331080011	1 MVIS
2	200341010771	1 MVIS
3	200961010441	1 MVIS
4	200961011161	1 MVIS
5	200961011171	1 MVIS
6	200961011181	1 MVIS
7	200961020071	1 MVIS
8	201391010681	1 MVIS
9	201391010691	1 MVIS
10	201391010701	1 MVIS
11	201391010721	1 MVIS
12	201391010731	1 MVIS
13	201391010741	1 MVIS
14	201391010751	1 MVIS
15	201731020381	1 MVIS
16	201731020491	1 MVIS
17	201751010132	1 MVIS
18	201921020091	1 MVIS
19	202301020021	1 MVIS
20	202301030021	1 MVIS
21	202301030061	1 MVIS
22	202301050131	1 MVIS
23	202301050141	1 MVIS
24	202301050151	1 MVIS
25	202541010381	1 MVIS
26	202541010391	1 MVIS
27	202621020222	1 MVIS
28	202621020252	1 MVIS
29	202641010321	1 MVIS
30	202831040061	1 MVIS
31	203411010331	1 MVIS
32	203411010421	1 MVIS
33	203451020141	1 MVIS
34	203451030091	1 MVIS
35	203591010341	1 MVIS
36	203591010351	1 MVIS
37	203591010361	1 MVIS
38	203591010371	1 MVIS
39	203591010381	1 MVIS
40	203591010481	1 MVIS
41	203591010491	1 MVIS
42	203591010501	1 MVIS
43	203591010511	1 MVIS
44	203661020211	1 MVIS
45	203921010831	1 MVIS
46	203921011071	1 MVIS
47	203921011081	1 MVIS
48	204881010361	1 MVIS
49	204881010541	1 MVIS
50	204881010551	1 MVIS

HC-160I

Sample SAS Job for Example A

sample print of work.rxlk - sorted by evntidx

Rx+event link file records (HC- 160IF2)

EVNTIDX	LINKIDX	EVENTYPE
200041030021	200041030041	2 OPAT
200041030031	200041030041	2 OPAT
200051010201	200051010211	1 MVIS
200051010251	200051010271	1 MVIS
200051010251	200051010281	1 MVIS
200051010251	200051010291	1 MVIS
200051010251	200051010301	1 MVIS
200121010011	200121010021	3 EROM
200121010011	200121010031	3 EROM
200151010011	200151010021	1 MVIS
200151020051	200151020061	1 MVIS
200161010201	200161010311	5 DVIS
200161010241	200161010321	1 MVIS
200171040041	200171040051	1 MVIS
200171040041	200171040061	1 MVIS
200171050061	200171050071	1 MVIS
200171050081	200171050091	1 MVIS
200171060071	200171060081	1 MVIS
200201010311	200201010451	1 MVIS
200201020211	200201020291	1 MVIS
200201020251	200201020301	1 MVIS
200201020631	200201020691	1 MVIS
200201020651	200201020691	1 MVIS
200201020661	200201020691	1 MVIS
200201020741	200201020761	1 MVIS
200231010011	200231010021	3 EROM
200241010261	200241010271	1 MVIS
200241010261	200241010281	1 MVIS
200241010341	200241010421	1 MVIS
200241010341	200241010431	1 MVIS
200241020161	200241020201	1 MVIS
200241020191	200241020221	1 MVIS
200241020251	200241020311	1 MVIS
200241020351	200241020381	2 OPAT
200271010921	200271011111	1 MVIS
200271010921	200271011121	1 MVIS
200271010921	200271011131	1 MVIS
200271010921	200271011141	1 MVIS
200271010921	200271011151	1 MVIS
200271010921	200271011161	1 MVIS
200271010921	200271011171	1 MVIS
200271010921	200271011181	1 MVIS
200271010921	200271011191	1 MVIS
200271010921	200271011201	1 MVIS
200271010991	200271011211	1 MVIS
200271011011	200271011221	1 MVIS
200271020811	200271020901	5 DVIS
200271020811	200271020921	5 DVIS
200271020961	200271020971	1 MVIS
200271020961	200271020981	1 MVIS
200271020961	200271020991	1 MVIS
200271021131	200271021691	1 MVIS
200271021131	200271021701	1 MVIS
200271021131	200271021711	1 MVIS
200271021131	200271021721	1 MVIS
200271021131	200271021731	1 MVIS
200271021231	200271021741	1 MVIS
200271021231	200271021751	1 MVIS
200271021231	200271021761	1 MVIS
200271021601	200271021771	1 MVIS
200301010121	200301010141	1 MVIS
200301010121	200301010151	1 MVIS
200301010121	200301010161	1 MVIS
200311010291	200311010391	1 MVIS

EVNTIDX	LINKIDX	EVENTYPE
200311010291	200311010401	1 MVIS
200311010291	200311010411	1 MVIS
200311010361	200311010421	1 MVIS
200311020341	200311020471	1 MVIS
200311020371	200311020511	1 MVIS
200311020521	200311020601	1 MVIS
200311020541	200311020611	1 MVIS
200321010071	200321010081	1 MVIS
200321030061	200321030081	1 MVIS
200321030111	200321030121	1 MVIS
200331080011	200331080021	1 MVIS
200341010251	200341010321	1 MVIS
200341010391	200341010591	3 EROM
200341010581	200341010611	1 MVIS
200341010581	200341010621	1 MVIS
200341010581	200341010631	1 MVIS
200341010581	200341010641	1 MVIS
200341010681	200341010931	2 OPAT
200341010681	200341010941	2 OPAT
200341010721	200341010951	2 OPAT
200341010841	200341010951	2 OPAT
200381030041	200381030071	1 MVIS
200381030041	200381030081	1 MVIS
200381030041	200381030091	1 MVIS
200411020062	200411020072	3 EROM
200411030011	200411030041	1 MVIS
200411030021	200411030051	1 MVIS
200411030061	200411030111	5 DVIS
200411030061	200411030121	5 DVIS
200411030071	200411030131	5 DVIS
200411030091	200411030111	1 MVIS
200411030101	200411030141	1 MVIS
200411040061	200411040091	5 DVIS
200411040061	200411040101	5 DVIS
200411040061	200411040111	5 DVIS
200411050051	200411050061	1 MVIS
200411050051	200411050071	1 MVIS
200411050121	200411050131	1 MVIS
200411050121	200411050141	1 MVIS
200421010251	200421010281	2 OPAT
200421010251	200421010291	2 OPAT
200421010251	200421010301	2 OPAT
200421010261	200421010331	1 MVIS
200421010261	200421010371	1 MVIS
200421010271	200421010371	1 MVIS
200421010391	200421010471	1 MVIS
200421010421	200421010481	1 MVIS
200421010491	200421010481	2 OPAT
200441030031	200441030051	1 MVIS
200441040061	200441040071	1 MVIS
200441040061	200441040081	1 MVIS
200461010101	200461010121	2 OPAT
200461010101	200461010131	2 OPAT
200461010101	200461010141	2 OPAT
200461010151	200461010171	1 MVIS
200461010151	200461010181	1 MVIS
200461010151	200461010191	1 MVIS
200461020081	200461020101	1 MVIS
200461020081	200461020111	1 MVIS
200461020081	200461020121	1 MVIS
200461020081	200461020131	1 MVIS
200461020091	200461020141	3 EROM
200461020091	200461020151	3 EROM
200461020171	200461020221	2 OPAT
200461060101	200461060131	1 MVIS
200461060111	200461060141	1 MVIS
200461060111	200461060151	1 MVIS
200461060241	200461060251	1 MVIS
200461060241	200461060261	1 MVIS
200461060241	200461060271	1 MVIS

EVNTIDX	LINKIDX	EVENTYPE
200461060241	200461060281	1 MVIS
200461060241	200461060291	1 MVIS
200461060241	200461060301	1 MVIS
200471010291	200471010301	3 EROM
200471010291	200471010311	3 EROM
200471020021	200471020031	3 EROM

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Sample SAS Job for Example A

sample print of work.pmedids - sorted by evntidx

work.rxlk records for evntidxs in work.asmvis

EVNTIDX	LINKIDX	EVENTYPE
200331080011	200331080021	1 MVIS
200961011161	200961011451	1 MVIS
200961011161	200961011461	1 MVIS
200961011161	200961011471	1 MVIS
200961020071	200961020101	1 MVIS
200961020071	200961020111	1 MVIS
200961020071	200961020121	1 MVIS
200961020071	200961020131	1 MVIS
201391010681	201391010891	1 MVIS
201391010681	201391010901	1 MVIS
201391010681	201391010911	1 MVIS
201391010681	201391010921	1 MVIS
201391010681	201391010931	1 MVIS
201391010681	201391010941	1 MVIS
201391010681	201391010951	1 MVIS
201391010681	201391010961	1 MVIS
201391010681	201391010971	1 MVIS
201391010681	201391010981	1 MVIS
201391010681	201391010991	1 MVIS
201391010681	201391011001	1 MVIS
201391010681	201391011011	1 MVIS
201391010681	201391011021	1 MVIS
201391010681	201391011031	1 MVIS
201391010681	201391011041	1 MVIS
201391010681	201391011051	1 MVIS
201731020381	201731020431	1 MVIS
201731020491	201731020511	1 MVIS
201731020491	201731020521	1 MVIS
201751010132	201751010142	1 MVIS
202301020021	202301020031	1 MVIS
202301020021	202301020041	1 MVIS
202301030021	202301030041	1 MVIS
202301030061	202301030081	1 MVIS
202301030061	202301030091	1 MVIS
202301030061	202301030101	1 MVIS
202541010381	202541010411	1 MVIS
202621020222	202621020362	1 MVIS
202641010321	202641010331	1 MVIS
202641010321	202641010341	1 MVIS
202641010321	202641010351	1 MVIS
202641010321	202641010361	1 MVIS
202641010321	202641010371	1 MVIS
202641010321	202641010381	1 MVIS
202641010321	202641010391	1 MVIS
202641010321	202641010401	1 MVIS
202641010321	202641010411	1 MVIS
202831040061	202831040081	1 MVIS
203411010331	203411010441	1 MVIS
203451020141	203451020151	1 MVIS
203451020141	203451020161	1 MVIS

Sample SAS Job for Example A

sample print of work.pmedids - sorted by linkidx

Obs	EVNTIDX	LINKIDX	EVENTYPE
1	200331080011	200331080021	1 MVIS
2	200961011161	200961011451	1 MVIS
3	200961011161	200961011461	1 MVIS
4	200961011161	200961011471	1 MVIS
5	200961020071	200961020101	1 MVIS
6	200961020071	200961020111	1 MVIS
7	200961020071	200961020121	1 MVIS
8	200961020071	200961020131	1 MVIS
9	201391010681	201391010891	1 MVIS
10	201391010681	201391010901	1 MVIS
11	201391010681	201391010911	1 MVIS
12	201391010681	201391010921	1 MVIS
13	201391010681	201391010931	1 MVIS
14	201391010681	201391010941	1 MVIS
15	201391010681	201391010951	1 MVIS
16	201391010681	201391010961	1 MVIS
17	201391010681	201391010971	1 MVIS
18	201391010681	201391010981	1 MVIS
19	201391010681	201391010991	1 MVIS
20	201391010681	201391011001	1 MVIS
21	201391010681	201391011011	1 MVIS
22	201391010681	201391011021	1 MVIS
23	201391010681	201391011031	1 MVIS
24	201391010681	201391011041	1 MVIS
25	201391010681	201391011051	1 MVIS
26	201731020381	201731020431	1 MVIS
27	201731020491	201731020511	1 MVIS
28	201731020491	201731020521	1 MVIS
29	201751010132	201751010142	1 MVIS
30	202301020021	202301020031	1 MVIS
31	202301020021	202301020041	1 MVIS
32	202301030021	202301030041	1 MVIS
33	202301030061	202301030081	1 MVIS
34	202301030061	202301030091	1 MVIS
35	202301030061	202301030101	1 MVIS
36	202541010381	202541010411	1 MVIS
37	202621020222	202621020362	1 MVIS
38	202641010321	202641010331	1 MVIS
39	202641010321	202641010341	1 MVIS
40	202641010321	202641010351	1 MVIS
41	202641010321	202641010361	1 MVIS
42	202641010321	202641010371	1 MVIS
43	202641010321	202641010381	1 MVIS
44	202641010321	202641010391	1 MVIS
45	202641010321	202641010401	1 MVIS
46	202641010321	202641010411	1 MVIS
47	202831040061	202831040081	1 MVIS
48	203411010331	203411010441	1 MVIS
49	203451020141	203451020151	1 MVIS
50	203451020141	203451020161	1 MVIS

Sample SAS Job for Example A

sample print of unique linkidxs in work.pmedids

Obs	LINKIDX
1	200331080021
2	200961011451
3	200961011461
4	200961011471
5	200961020101
6	200961020111
7	200961020121
8	200961020131
9	201391010891
10	201391010901
11	201391010911
12	201391010921
13	201391010931
14	201391010941
15	201391010951
16	201391010961
17	201391010971
18	201391010981
19	201391010991
20	201391011001
21	201391011011
22	201391011021
23	201391011031
24	201391011041
25	201391011051
26	201731020431
27	201731020511
28	201731020521
29	201751010142
30	202301020031
31	202301020041
32	202301030041
33	202301030081
34	202301030091
35	202301030101
36	202541010411
37	202621020362
38	202641010331
39	202641010341
40	202641010351
41	202641010361
42	202641010371
43	202641010381
44	202641010391
45	202641010401
46	202641010411
47	202831040081
48	203411010441
49	203451020151
50	203451020161

LINKIDX	RXRECIDX	RXNAME	RXXP13X	PERWT13F
200331080021	200331080021001	ALBUTEROL	10.08	6343.158235
200331080021	200331080021002	ALBUTEROL	10.08	6343.158235
200961011451	200961011451001	METOPROL TAR	3.69	2494.907426
200961011451	200961011451002	METOPROL TAR	3.69	2494.907426
200961011451	200961011451003	METOPROL TAR	3.69	2494.907426
200961011451	200961011451004	METOPROL TAR	3.69	2494.907426
200961011451	200961011451005	METOPROL TAR	3.69	2494.907426
200961011461	200961011461001	AGGRENOX	271.98	2494.907426
200961011461	200961011461002	AGGRENOX	271.98	2494.907426
200961011461	200961011461003	AGGRENOX	271.98	2494.907426
200961011461	200961011461004	AGGRENOX	271.98	2494.907426
200961011461	200961011461005	AGGRENOX	271.98	2494.907426
200961011471	200961011471001	LEVEMIR	171.49	2494.907426
200961011471	200961011471002	LEVEMIR	171.49	2494.907426
200961011471	200961011471003	LEVEMIR	171.49	2494.907426
200961011471	200961011471004	LEVEMIR	171.49	2494.907426
200961011471	200961011471005	LEVEMIR	171.49	2494.907426
200961011471	200961011471006	LEVEMIR	171.49	2494.907426
200961011471	200961011471007	LEVEMIR	171.49	2494.907426
200961011471	200961011471008	LEVEMIR	196.92	2494.907426
200961011471	200961011471009	LEVEMIR	196.92	2494.907426
200961011471	200961011471010	LEVEMIR	196.92	2494.907426
200961020101	200961020101001	ADVAIR DISKU	73.27	1891.106308
200961020111	200961020111001	PROAIR HFA	65.99	1891.106308
200961020121	200961020121001	MUCINEX	10.03	1891.106308
200961020131	200961020131001	CIPRO (5%)	208.55	1891.106308
201391010891	201391010891001	PRAMIPEXOLE	44.60	8890.828987
201391010891	201391010891002	PRAMIPEXOLE	44.60	8890.828987
201391010891	201391010891003	PRAMIPEXOLE	44.60	8890.828987
201391010891	201391010891004	PRAMIPEXOLE	44.60	8890.828987
201391010891	201391010891005	PRAMIPEXOLE	44.60	8890.828987
201391010891	201391010891006	PRAMIPEXOLE	44.60	8890.828987
201391010891	201391010891007	PRAMIPEXOLE	44.60	8890.828987
201391010901	201391010901001	LANTUS	235.08	8890.828987
201391010901	201391010901002	LANTUS	258.13	8890.828987
201391010901	201391010901003	LANTUS	258.13	8890.828987
201391010901	201391010901004	LANTUS	283.47	8890.828987
201391010911	201391010911001	POT CL MICRO	16.00	8890.828987
201391010911	201391010911002	POT CL MICRO	16.00	8890.828987
201391010911	201391010911003	POT CL MICRO	29.74	8890.828987
201391010911	201391010911004	POT CL MICRO	29.74	8890.828987
201391010911	201391010911005	POT CL MICRO	29.74	8890.828987
201391010911	201391010911006	POT CL MICRO	29.74	8890.828987
201391010911	201391010911007	POT CL MICRO	29.74	8890.828987
201391010921	201391010921001	FEXOFENADINE	25.00	8890.828987
201391010921	201391010921002	FEXOFENADINE	25.00	8890.828987
201391010921	201391010921003	FEXOFENADINE	25.00	8890.828987
201391010921	201391010921004	FEXOFENADINE	25.00	8890.828987
201391010921	201391010921005	FEXOFENADINE	25.00	8890.828987
201391010921	201391010921006	FEXOFENADINE	25.00	8890.828987
201391010921	201391010921007	FEXOFENADINE	25.00	8890.828987
201391010931	201391010931001	CYMBALTA	224.26	8890.828987
201391010931	201391010931002	CYMBALTA	204.67	8890.828987
201391010931	201391010931003	CYMBALTA	204.67	8890.828987
201391010931	201391010931004	CYMBALTA	204.67	8890.828987
201391010931	201391010931005	CYMBALTA	204.67	8890.828987
201391010931	201391010931006	CYMBALTA	224.71	8890.828987
201391010931	201391010931007	CYMBALTA	224.71	8890.828987
201391010941	201391010941001	NAMENDA	251.79	8890.828987
201391010941	201391010941002	NAMENDA	251.79	8890.828987
201391010941	201391010941003	NAMENDA	273.01	8890.828987
201391010941	201391010941004	NAMENDA	273.01	8890.828987
201391010941	201391010941005	NAMENDA	273.01	8890.828987

LINKIDX	RXRECIDX	RXNAME	RXXP13X	PERWT13F
201391010941	201391010941006	NAMENDA	273.01	8890.828987
201391010941	201391010941007	NAMENDA	273.01	8890.828987
201391010951	201391010951001	FUROSEMIDE	2.54	8890.828987
201391010951	201391010951002	FUROSEMIDE	2.54	8890.828987
201391010951	201391010951003	FUROSEMIDE	5.01	8890.828987
201391010951	201391010951004	FUROSEMIDE	5.01	8890.828987
201391010951	201391010951005	FUROSEMIDE	5.01	8890.828987
201391010951	201391010951006	FUROSEMIDE	5.01	8890.828987
201391010951	201391010951007	FUROSEMIDE	5.01	8890.828987
201391010961	201391010961001	AMLODIPINE	5.11	8890.828987
201391010961	201391010961002	AMLODIPINE	5.11	8890.828987
201391010961	201391010961003	AMLODIPINE	5.11	8890.828987
201391010961	201391010961004	AMLODIPINE	5.11	8890.828987
201391010961	201391010961005	AMLODIPINE	5.11	8890.828987
201391010961	201391010961006	AMLODIPINE	5.11	8890.828987
201391010961	201391010961007	AMLODIPINE	5.11	8890.828987
201391010971	201391010971001	CLORAZ DIPOT	22.13	8890.828987
201391010971	201391010971002	CLORAZ DIPOT	22.13	8890.828987
201391010971	201391010971003	CLORAZ DIPOT	22.13	8890.828987
201391010971	201391010971004	CLORAZ DIPOT	22.13	8890.828987
201391010971	201391010971005	CLORAZ DIPOT	22.13	8890.828987
201391010971	201391010971006	CLORAZ DIPOT	22.13	8890.828987
201391010971	201391010971007	CLORAZ DIPOT	22.13	8890.828987
201391010981	201391010981001	LISINOPRIL	5.00	8890.828987
201391010981	201391010981002	LISINOPRIL	5.00	8890.828987
201391010981	201391010981003	LISINOPRIL	5.00	8890.828987
201391010981	201391010981004	LISINOPRIL	5.00	8890.828987
201391010981	201391010981005	LISINOPRIL	5.00	8890.828987
201391010981	201391010981006	LISINOPRIL	5.00	8890.828987
201391010981	201391010981007	LISINOPRIL	5.00	8890.828987
201391010991	201391010991001	MONTELUKAST	27.63	8890.828987
201391010991	201391010991002	MONTELUKAST	27.63	8890.828987
201391010991	201391010991003	MONTELUKAST	27.63	8890.828987
201391010991	201391010991004	MONTELUKAST	27.63	8890.828987
201391010991	201391010991005	MONTELUKAST	27.63	8890.828987
201391010991	201391010991006	MONTELUKAST	27.63	8890.828987
201391010991	201391010991007	MONTELUKAST	27.63	8890.828987
201391011001	201391011001001	HUMULIN R	234.81	8890.828987
201391011001	201391011001002	HUMULIN R	234.81	8890.828987
201391011001	201391011001003	HUMULIN R	234.81	8890.828987
201391011001	201391011001004	HUMULIN R	234.81	8890.828987
201391011001	201391011001005	HUMULIN R	254.70	8890.828987
201391011001	201391011001006	HUMULIN R	254.70	8890.828987
201391011001	201391011001007	HUMULIN R	254.70	8890.828987
201391011011	201391011011001	HYDRALAZINE	21.95	8890.828987
201391011011	201391011011002	HYDRALAZINE	21.95	8890.828987
201391011011	201391011011003	HYDRALAZINE	21.95	8890.828987
201391011011	201391011011004	HYDRALAZINE	21.95	8890.828987
201391011011	201391011011005	HYDRALAZINE	21.95	8890.828987
201391011011	201391011011006	HYDRALAZINE	21.95	8890.828987
201391011011	201391011011007	HYDRALAZINE	21.95	8890.828987
201391011021	201391011021001	FERROUS SULF	10.00	8890.828987
201391011021	201391011021002	FERROUS SULF	10.00	8890.828987
201391011021	201391011021003	FERROUS SULF	10.00	8890.828987
201391011021	201391011021004	FERROUS SULF	10.00	8890.828987
201391011021	201391011021005	FERROUS SULF	10.00	8890.828987
201391011021	201391011021006	FERROUS SULF	10.00	8890.828987
201391011021	201391011021007	FERROUS SULF	10.00	8890.828987
201391011031	201391011031001	MAGOX 400	17.65	8890.828987
201391011031	201391011031002	MAGOX 400	17.65	8890.828987
201391011031	201391011031003	MAGOX 400	17.65	8890.828987
201391011031	201391011031004	MAGOX 400	17.65	8890.828987
201391011031	201391011031005	MAGOX 400	17.65	8890.828987
201391011031	201391011031006	MAGOX 400	17.65	8890.828987
201391011031	201391011031007	MAGOX 400	17.65	8890.828987
201391011041	201391011041001	OMEPRAZOLE	7.19	8890.828987
201391011041	201391011041002	OMEPRAZOLE	7.19	8890.828987
201391011041	201391011041003	OMEPRAZOLE	7.19	8890.828987
201391011041	201391011041004	OMEPRAZOLE	7.19	8890.828987
201391011041	201391011041005	OMEPRAZOLE	7.19	8890.828987
201391011051	201391011051001	OXCARBAZEPIN	82.52	8890.828987
201391011051	201391011051002	OXCARBAZEPIN	48.52	8890.828987

LINKIDX	RXRECIDX	RXNAME	RXXP13X	PERWT13F
201391011051	201391011051003	OXCARBAZEPIN	48.52	8890.828987
201391011051	201391011051004	OXCARBAZEPIN	48.52	8890.828987
201391011051	201391011051005	OXCARBAZEPIN	48.52	8890.828987
201391011051	201391011051006	OXCARBAZEPIN	48.52	8890.828987
201391011051	201391011051007	OXCARBAZEPIN	48.52	8890.828987
201731020431	201731020431001	ADVAIR HFA	276.42	11122.533252
201731020511	201731020511001	BUT/APAP/CAF	4.10	11122.533252
201731020511	201731020511002	BUT/APAP/CAF	4.10	11122.533252
201731020521	201731020521001	ADVAIR HFA	284.66	11122.533252
201731020521	201731020521002	ADVAIR HFA	284.66	11122.533252
201731020521	201731020521003	ADVAIR HFA	284.66	11122.533252
201751010142	201751010142001	PREDNISONE	2.74	5544.853057
202301020031	202301020031001	PROAIR HFA	53.14	2849.505704
202301020041	202301020041001	MONTELUKAST	15.00	2849.505704
202301030041	202301030041001	PROAIR HFA	53.14	3066.926265
202301030081	202301030081001	PROAIR HFA	53.14	3066.926265
202301030091	202301030091001	MONTELUKAST	63.90	3066.926265
202301030101	202301030101001	NEBULIZER MASK ADULT	2.01	3066.926265
202541010411	202541010411001	QVAR	163.91	43833.688905
202621020362	202621020362001	PREDNISONE	2.37	2745.028438
202641010331	202641010331001	PROAIR HFA	46.39	7838.109009
202641010331	202641010331002	PROAIR HFA	45.87	7838.109009
202641010331	202641010331003	PROAIR HFA	45.87	7838.109009
202641010341	202641010341001	QVAR	4163.94	7838.109009
202641010341	202641010341002	QVAR	713.76	7838.109009
202641010341	202641010341003	QVAR	713.76	7838.109009
202641010351	202641010351001	ADVAIR DISKU	233.88	7838.109009
202641010361	202641010361001	AMLODIPINE	43.59	7838.109009
202641010361	202641010361002	AMLODIPINE	43.59	7838.109009
202641010361	202641010361003	AMLODIPINE	43.59	7838.109009
202641010371	202641010371001	THEOPHYLLINE	20.07	7838.109009
202641010371	202641010371002	THEOPHYLLINE	20.07	7838.109009
202641010371	202641010371003	THEOPHYLLINE	20.07	7838.109009
202641010381	202641010381001	SPIRIVA	267.90	7838.109009
202641010381	202641010381002	SPIRIVA	267.90	7838.109009
202641010381	202641010381003	SPIRIVA	267.90	7838.109009
202641010391	202641010391001	LEVOFLOXACIN	6.07	7838.109009
202641010401	202641010401001	NEXIUM	690.51	7838.109009
202641010401	202641010401002	NEXIUM	690.51	7838.109009
202641010401	202641010401003	NEXIUM	588.43	7838.109009
202641010411	202641010411001	IBUPROFEN	110.97	7838.109009
202641010411	202641010411002	IBUPROFEN	110.97	7838.109009
202641010411	202641010411003	IBUPROFEN	110.97	7838.109009
202831040081	202831040081001	VENTOLIN HFA	62.99	2352.240154
203411010441	203411010441001	DULERA	223.67	8976.320877
203411010441	203411010441002	DULERA	223.67	8976.320877
203411010441	203411010441003	DULERA	223.67	8976.320877
203411010441	203411010441004	DULERA	223.67	8976.320877
203451020151	203451020151001	SERTRALINE	134.99	14832.750240
203451020161	203451020161001	ADVAIR HFA	342.99	14832.750240
203451020161	203451020161002	ADVAIR HFA	342.99	14832.750240
203451020161	203451020161003	ADVAIR HFA	342.99	14832.750240
203451020161	203451020161004	ADVAIR HFA	342.99	14832.750240
203451030101	203451030101001	Advair	253.37	9445.971672
203451030101	203451030101002	Advair	253.37	9445.971672
203451030101	203451030101003	Advair	253.37	9445.971672
203451030101	203451030101004	Advair	253.37	9445.971672
203451030111	203451030111001	ALBUTEROL	76.99	9445.971672
203451030111	203451030111002	ALBUTEROL	76.99	9445.971672
203591010401	203591010401001	SIMVASTATIN	125.99	5767.614461
203591010401	203591010401002	SIMVASTATIN	125.99	5767.614461
203591010401	203591010401003	SIMVASTATIN	125.99	5767.614461
203591010411	203591010411001	DULERA	699.30	5767.614461
203591010411	203591010411002	DULERA	699.30	5767.614461
203591010411	203591010411003	DULERA	699.30	5767.614461

HC-160I

Sample SAS Job for Example A

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

Analysis Variable : RXXP13X SUM OF PAYMENTS RXSF13X- RXOU13X(IMPUTED)

N	Sum
5640	529582.49

HC-160I

Sample SAS Job for Example A

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

Weighted

Analysis Variable : RXXP13X SUM OF PAYMENTS RXSF13X- RXOU13X(IMPUTED)

N	Sum
5640	4843260307

NOTE: Copyright (c) 2002- 2010 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software 9.3 (TS1M2)
NOTE: This session is executing on the W32_7PRO platform.

NOTE: SAS initialization used:
real time 1.58 seconds
cpu time 0.20 seconds

NOTE: AUTOEXEC processing beginning; file is C:\ Program Files\ SASMISC\autoexec_93.sas.

NOTE: DATA statement used (Total process time):
real time 0.04 seconds
cpu time 0.04 seconds

NOTE: AUTOEXEC processing completed.

```
1         ods rtf file = 'C:\                        Data\  sampleB.rtf'
1       ! bodytitle;
NOTE: Writing RTF Body file: C:\               Data\  sampleB.rtf
2
3         ods noproctitle;
4
5         OPTIONS LS=132 PS=59;
6
7         TITLE1 "HC-             160I";
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          0.00 seconds
```

```
    cpu time          0.00 seconds


26
27        *-------------------------------------------------------------------------------
28        * Get condition records coded as asthma.
29        *-------------------------------------------------------------------------------;
30        DATA ASCONDS;
31          SET IN.H162 (KEEP=CONDIDX CCCODEX);
32          IF CCCODEX="128";
33        RUN;

NOTE: There were 123875 observations read from the data set IN.H162.
NOTE: The data set WORK.ASCONDS has 2469 observations and 2                variables.
NOTE: Compressing data set WORK.ASCONDS increased size by 80.00 percent.
      Compressed is 18 pages; un-              compressed would require 10 pages.
NOTE: DATA statement used (Total process time):
      real time          1.19 seconds
      cpu time           0.09 seconds


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

NOTE: There were 2469 observations read from the data set WORK.ASCONDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCONDS has 2469 observations and 2 variables.
NOTE: Compressing data set WORK.ASCONDS increased size by 80.00 percent.
      Compressed is 18 pages; un-              compressed would require 10 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


39
40        proc print data=asconds (obs=50);
41          title3 "sample print of work.asconds -                    sorted by condidx";
42          title4 "COND (H162) 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          0.05 seconds
      cpu time           0.03 seconds


44
45        PROC SORT DATA=IN.H160IF1 OUT=CLNK; BY CONDIDX; RUN;

NOTE: There were 357551 observations read from the data set IN.H160IF1.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.CLNK has 357551 observations and 6 variables.
NOTE: Compressing data set WORK.CLNK increased size by 5.90 percent.
```

```
     Compressed is 6763 pages; un-              compressed    would require 6386 pages.
NOTE: PROCEDURE SORT used (Total process time):
     real time          1.93 seconds
     cpu time           0.65 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 357551 observations read from the data set WORK.CLNK.
NOTE: There were 2469 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7471 observations and 3 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 26.67 percent.
     Compressed is 76 pages; un-              compressed would require 60 pages.
NOTE: DATA statement used (Total process time):
     real time          0.22 seconds
     cpu time           0.21 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-         4.
NOTE: PROCEDURE PRINT used (Total process time):
     real time          0.02 seconds
     cpu time           0.01 seconds


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

NOTE: There were 7471 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 7471 observations and 3 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 26.67 percent.
     Compressed is 76 pages; un-              compressed would require 60 pages.
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 5.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


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

NOTE: There were 7471 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7459 observations and 2 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 17.78 percent.
      Compressed is 53 pages; un-                compressed would require 45 pages.
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 6.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.00 seconds
      cpu time           0.01 seconds


79
80        *-------------------------------------------------------------------------------
81        * Get PMED records linked to asthma condition records.
82        *-------------------------------------------------------------------------------;
83        PROC SORT DATA=IN.H160A OUT=PMED; BY LINKIDX; RUN;

NOTE: There were 327557 observations read from the data set IN.H160A.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.PMED has 327557 observations and 13 variables.
NOTE: Compressing data set WORK.PMED decreased size by 19.98 percent.
      Compressed is 5699 pages; un-                compressed would require 7122 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          9.50 seconds
      cpu time           1.48 seconds


84
85        DATA ASPMEDS;
86          MERGE PMED (KEEP=LINKIDX RXRECIDX RXNAME RXXP13X  PERWT13F)
```

```
87              ASCLNKS (IN=INASCLNK KEEP=EVNTIDX RENAME=(EVNTIDX=LINKIDX));
88           BY LINKIDX;
89           IF INASCLNK & PERWT13F>0;
90         RUN;
```

NOTE: There were 327557 observations read from the data set WORK.PMED.
NOTE: There were 7459 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASPMEDS has 10533 observations and 5 variables.
NOTE: Compressing data set WORK.ASPMEDS decreased size by 28.57 percent.
Compressed is 90 pages; un- compressed would require 126 pages.
NOTE: DATA statement used (Total process time):
real time 0.25 seconds
cpu time 0.24 seconds

```
91
92         proc print data=aspmeds (obs=300);
93           by linkidx;
94           id linkidx;
95           var rxrecidx rxname RXXP13X  PERWT13F;
96           title3 "sample print of work.aspmeds";
97           title4 "PMED (HC- 160A) 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 7- 19.
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.11 seconds
cpu time 0.10 seconds

```
99
100        PROC MEANS DATA=ASPMEDS N SUM;
101          VAR RXXP13X;
102          TITLE3 "Total Rx expenditures associated with asthma";
103        RUN;
```

NOTE: Multiple concurrent threads will be used to summarize data.
NOTE: There were 10533 observations read from the data set WORK.ASPMEDS.
NOTE: The PROCEDURE MEANS printed page 20.
NOTE: PROCEDURE MEANS used (Total process time):
real time 0.02 seconds
cpu time 0.03 seconds

```
104
105        PROC MEANS DATA=ASPMEDS N SUM;
106                  VAR RXXP13X;
107          WEIGHT PERWT13F;
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 10533 observations read from the data set WORK.ASPMEDS.
NOTE: The PROCEDURE MEANS printed page 21.
NOTE: PROCEDURE MEANS used (Total process time):

real time 0.01 seconds
cpu time 0.01 seconds

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

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
NOTE: The SAS System used:
real time 17.09 seconds
cpu time 3.44 seconds

HC-160I

Sample SAS Job for Example B

sample print of work.asconds - sorted by condidx

COND (H162) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	200321020011	128
2	200331040011	128
3	200331080011	128
4	200341010041	128
5	200411050011	128
6	200461030011	128
7	200591010021	128
8	200591020021	128
9	200591030011	128
10	200891020081	128
11	200941010021	128
12	200941020051	128
13	200961010081	128
14	200961020021	128
15	200961030011	128
16	201091060011	128
17	201391010061	128
18	201501020021	128
19	201731020021	128
20	201751010042	128
21	201751010062	128
22	201781010031	128
23	201791020011	128
24	201921020051	128
25	202221010031	128
26	202301020021	128
27	202301030011	128
28	202301050061	128
29	202541010021	128
30	202551030021	128
31	202571010021	128
32	202621020042	128
33	202621060012	128
34	202641010041	128
35	202641010061	128
36	202781020011	128
37	202831040011	128
38	202831040021	128
39	202851040011	128
40	202971030011	128
41	203141030011	128
42	203341010051	128
43	203411010021	128
44	203451020021	128
45	203451030011	128
46	203591010041	128
47	203661020011	128
48	203921010051	128
49	203951020021	128
50	204191040061	128

HC-160I

Sample SAS Job for Example B

sample print of work.asclnks - sorted by condidx

events linked to asthma condition records

CONDIDX	EVNTIDX	EVENTYPE
200331040011	200331040011	8 PMED
200331080011	200331080011	1 MVIS
200331080011	200331080021	8 PMED
200331080011	200331080031	8 PMED
200341010041	200341010771	1 MVIS
200411050011	200411050151	8 PMED
200411050011	200411050161	8 PMED
200411050011	200411050171	8 PMED
200461030011	200461030031	8 PMED
200591010021	200591010531	8 PMED
200591030011	200591030151	8 PMED
200591030011	200591030181	8 PMED
200941010021	200941010271	8 PMED
200941010021	200941010431	8 PMED
200941020051	200941020231	7 HVIS
200941020051	200941020381	7 HVIS
200961010081	200961010441	1 MVIS
200961010081	200961011161	1 MVIS
200961010081	200961011171	1 MVIS
200961010081	200961011181	1 MVIS
200961020021	200961020071	1 MVIS
200961020021	200961020101	8 PMED
200961020021	200961020111	8 PMED
201391010061	201391010681	1 MVIS
201391010061	201391010691	1 MVIS
201391010061	201391010701	1 MVIS
201391010061	201391010721	1 MVIS
201391010061	201391010731	1 MVIS
201391010061	201391010741	1 MVIS
201391010061	201391010751	1 MVIS
201391010061	201391010991	8 PMED
201391010061	201391011101	8 PMED
201501020021	201501020391	8 PMED
201501020021	201501020401	8 PMED
201731020021	201731020261	8 PMED
201731020021	201731020381	1 MVIS
201731020021	201731020431	8 PMED
201731020021	201731020461	8 PMED
201731020021	201731020491	1 MVIS
201731020021	201731020521	8 PMED
201731020021	201731020531	8 PMED
201751010042	201751010142	8 PMED
201751010062	201751010132	1 MVIS
201781010031	201781010611	8 PMED
201791020011	201791020041	8 PMED
201791020011	201791020061	8 PMED
201791020011	201791020101	8 PMED
201921020051	201921020091	1 MVIS
201921020051	201921020661	8 PMED
201921020051	201921020781	8 PMED
202301020021	202301020021	1 MVIS
202301020021	202301020031	8 PMED
202301020021	202301020041	8 PMED
202301030011	202301030021	1 MVIS
202301030011	202301030041	8 PMED
202301030011	202301030051	8 PMED
202301030011	202301030061	1 MVIS
202301030011	202301030081	8 PMED
202301030011	202301030091	8 PMED
202301030011	202301030101	8 PMED
202301030011	202301030111	8 PMED
202301030011	202301030121	8 PMED
202301030011	202301030131	8 PMED
202301050061	202301050131	1 MVIS

CONDIDX	EVNTIDX	EVENTYPE
202301050061	202301050141	1 MVIS
202301050061	202301050151	1 MVIS
202301050061	202301050181	8 PMED
202301050061	202301050251	8 PMED
202541010021	202541010381	1 MVIS
202541010021	202541010391	1 MVIS
202541010021	202541010411	8 PMED
202541010021	202541010461	8 PMED
202551030021	202551030051	8 PMED
202621020042	202621020192	7 HVIS
202621020042	202621020222	1 MVIS

Sample SAS Job for Example B

sample print of work.asclnks - sorted by evntidx

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	200331040011	200331040011	8 PMED
2	200331080011	200331080011	1 MVIS
3	200331080011	200331080021	8 PMED
4	200331080011	200331080031	8 PMED
5	200341010041	200341010771	1 MVIS
6	200411050011	200411050151	8 PMED
7	200411050011	200411050161	8 PMED
8	200411050011	200411050171	8 PMED
9	200461030011	200461030031	8 PMED
10	200591010021	200591010531	8 PMED
11	200591030011	200591030151	8 PMED
12	200591030011	200591030181	8 PMED
13	200941010021	200941010271	8 PMED
14	200941010021	200941010431	8 PMED
15	200941020051	200941020231	7 HVIS
16	200941020051	200941020381	7 HVIS
17	200961010081	200961010441	1 MVIS
18	200961010081	200961011161	1 MVIS
19	200961010081	200961011171	1 MVIS
20	200961010081	200961011181	1 MVIS
21	200961020021	200961020071	1 MVIS
22	200961020021	200961020101	8 PMED
23	200961020021	200961020111	8 PMED
24	201391010061	201391010681	1 MVIS
25	201391010061	201391010691	1 MVIS
26	201391010061	201391010701	1 MVIS
27	201391010061	201391010721	1 MVIS
28	201391010061	201391010731	1 MVIS
29	201391010061	201391010741	1 MVIS
30	201391010061	201391010751	1 MVIS
31	201391010061	201391010991	8 PMED
32	201391010061	201391011101	8 PMED
33	201501020021	201501020391	8 PMED
34	201501020021	201501020401	8 PMED
35	201731020021	201731020261	8 PMED
36	201731020021	201731020381	1 MVIS
37	201731020021	201731020431	8 PMED
38	201731020021	201731020461	8 PMED
39	201731020021	201731020491	1 MVIS
40	201731020021	201731020521	8 PMED
41	201731020021	201731020531	8 PMED
42	201751010062	201751010132	1 MVIS
43	201751010042	201751010142	8 PMED
44	201781010031	201781010611	8 PMED
45	201791020011	201791020041	8 PMED
46	201791020011	201791020061	8 PMED
47	201791020011	201791020101	8 PMED
48	201921020051	201921020091	1 MVIS
49	201921020051	201921020661	8 PMED
50	201921020051	201921020781	8 PMED

Sample SAS Job for Example B

sample print of unique evntidxs from work.asclnks

Obs	EVNTIDX	EVENTYPE
1	200331040011	8 PMED
2	200331080011	1 MVIS
3	200331080021	8 PMED
4	200331080031	8 PMED
5	200341010771	1 MVIS
6	200411050151	8 PMED
7	200411050161	8 PMED
8	200411050171	8 PMED
9	200461030031	8 PMED
10	200591010531	8 PMED
11	200591030151	8 PMED
12	200591030181	8 PMED
13	200941010271	8 PMED
14	200941010431	8 PMED
15	200941020231	7 HVIS
16	200941020381	7 HVIS
17	200961010441	1 MVIS
18	200961011161	1 MVIS
19	200961011171	1 MVIS
20	200961011181	1 MVIS
21	200961020071	1 MVIS
22	200961020101	8 PMED
23	200961020111	8 PMED
24	201391010681	1 MVIS
25	201391010691	1 MVIS
26	201391010701	1 MVIS
27	201391010721	1 MVIS
28	201391010731	1 MVIS
29	201391010741	1 MVIS
30	201391010751	1 MVIS
31	201391010991	8 PMED
32	201391011101	8 PMED
33	201501020391	8 PMED
34	201501020401	8 PMED
35	201731020261	8 PMED
36	201731020381	1 MVIS
37	201731020431	8 PMED
38	201731020461	8 PMED
39	201731020491	1 MVIS
40	201731020521	8 PMED
41	201731020531	8 PMED
42	201751010132	1 MVIS
43	201751010142	8 PMED
44	201781010611	8 PMED
45	201791020041	8 PMED
46	201791020061	8 PMED
47	201791020101	8 PMED
48	201921020091	1 MVIS
49	201921020661	8 PMED
50	201921020781	8 PMED

Sample SAS Job for Example B

sample print of work.aspmeds

PMED (HC-160A) records which link to condition records coded as asthma

LINKIDX	RXRECIDX	RXNAME	RXXP13X	PERWT13F
200331040011	200331040011001	PROVENTIL	60.05	6634.169309
200331080021	200331080021001	ALBUTEROL	10.08	6343.158235
200331080021	200331080021002	ALBUTEROL	10.08	6343.158235
200331080031	200331080031001	ALBUTEROL	10.08	6343.158235
200411050151	200411050151001	NASONEX	168.99	8698.715936
200411050161	200411050161001	ALBUTEROL	4.78	8698.715936
200411050171	200411050171001	PULMICORT	647.06	8698.715936
200461030031	200461030031001	ALBUTEROL	39.99	7582.691309
200591010531	200591010531001	PROAIR HFA	68.85	5395.994678
200591030151	200591030151001	FLOVENT HFA	165.34	7826.271268
200591030181	200591030181001	FLOVENT HFA	204.99	7826.271268
200941010271	200941010271001	ALBUTEROL	37.38	4542.465027
200941010431	200941010431001	ALBUTEROL	25.10	4542.465027
200961020101	200961020101001	ADVAIR DISKU	73.27	1891.106308
200961020111	200961020111001	PROAIR HFA	65.99	1891.106308
201391010991	201391010991001	MONTELUKAST	27.63	8890.828987
201391010991	201391010991002	MONTELUKAST	27.63	8890.828987
201391010991	201391010991003	MONTELUKAST	27.63	8890.828987
201391010991	201391010991004	MONTELUKAST	27.63	8890.828987
201391010991	201391010991005	MONTELUKAST	27.63	8890.828987
201391010991	201391010991006	MONTELUKAST	27.63	8890.828987
201391010991	201391010991007	MONTELUKAST	27.63	8890.828987
201391011101	201391011101001	PROAIR HFA	47.66	8890.828987
201501020391	201501020391001	ADVAIR DISKU	347.84	20731.426824
201501020391	201501020391002	ADVAIR DISKU	347.84	20731.426824
201501020401	201501020401001	TRIAMCINOLON	95.72	20731.426824
201731020261	201731020261001	VENTOLIN HFA	41.59	11122.533252
201731020431	201731020431001	ADVAIR HFA	276.42	11122.533252
201731020461	201731020461001	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461002	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461003	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461004	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461005	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461006	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461007	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461008	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461009	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461010	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461011	VENTOLIN HFA	41.59	11122.533252
201731020461	201731020461012	VENTOLIN HFA	41.59	11122.533252
201731020521	201731020521001	ADVAIR HFA	284.66	11122.533252
201731020521	201731020521002	ADVAIR HFA	284.66	11122.533252
201731020521	201731020521003	ADVAIR HFA	284.66	11122.533252
201731020531	201731020531001	VENTOLIN HFA	41.59	11122.533252
201731020531	201731020531002	VENTOLIN HFA	41.59	11122.533252
201731020531	201731020531003	VENTOLIN HFA	41.59	11122.533252
201751010142	201751010142001	PREDNISONE	2.74	5544.853057
201781010611	201781010611001	PROAIR HFA	45.74	2773.839722
201781010611	201781010611002	PROAIR HFA	45.74	2773.839722
201791020041	201791020041001	PROAIR HFA	47.94	18693.965426
201791020061	201791020061001	PROAIR HFA	65.99	18693.965426
201791020061	201791020061002	PROAIR HFA	65.99	18693.965426
201791020061	201791020061003	PROAIR HFA	65.99	18693.965426
201791020061	201791020061004	PROAIR HFA	53.51	18693.965426
201791020061	201791020061005	PROAIR HFA	53.51	18693.965426
201791020101	201791020101001	PROAIR HFA	47.94	18693.965426
201791020101	201791020101002	PROAIR HFA	35.00	18693.965426
201791020101	201791020101003	PROAIR HFA	53.51	18693.965426
201791020101	201791020101004	PROAIR HFA	41.00	18693.965426
201921020661	201921020661001	FLUTICASONE	70.59	17007.191579
201921020661	201921020661002	FLUTICASONE	70.59	17007.191579
201921020781	201921020781001	PROAIR HFA	62.56	17007.191579
202301020031	202301020031001	PROAIR HFA	53.14	2849.505704
202301020041	202301020041001	MONTELUKAST	15.00	2849.505704
202301030041	202301030041001	PROAIR HFA	53.14	3066.926265

LINKIDX	RXRECIDX	RXNAME	RXXP13X	PERWT13F
202301030051	202301030051001	AZITHROMYCIN	44.99	3066.926265
202301030081	202301030081001	PROAIR HFA	53.14	3066.926265
202301030091	202301030091001	MONTELUKAST	63.90	3066.926265
202301030101	202301030101001	NEBULIZER MASK ADULT	2.01	3066.926265
202301030111	202301030111001	PROAIR HFA	53.14	3066.926265
202301030121	202301030121001	MONTELUKAST	63.90	3066.926265
202301030121	202301030121002	MONTELUKAST	50.94	3066.926265
202301030131	202301030131001	BUDESONIDE	239.98	3066.926265
202301050181	202301050181001	ALBUTEROL	5.01	2229.862126
202301050181	202301050181002	ALBUTEROL	5.01	2229.862126
202301050181	202301050181003	ALBUTEROL	5.01	2229.862126
202301050181	202301050181004	ALBUTEROL	5.01	2229.862126
202301050181	202301050181005	ALBUTEROL	5.01	2229.862126
202301050251	202301050251001	LORATADINE	9.59	2229.862126
202541010411	202541010411001	QVAR	163.91	43833.688905
202541010461	202541010461001	VENTOLIN HFA	47.12	43833.688905
202551030051	202551030051001	ALBUTEROL	76.99	6409.590319
202621020362	202621020362001	PREDNISONE	2.37	2745.028438
202621020612	202621020612001	ADVAIR DISKU	272.76	2745.028438
202621020612	202621020612002	ADVAIR DISKU	272.76	2745.028438
202621060072	202621060072001	ADVAIR HFA	342.99	2844.768922
202621060072	202621060072002	ADVAIR HFA	342.99	2844.768922
202621060072	202621060072003	ADVAIR HFA	342.99	2844.768922
202641010211	202641010211001	PROAIR HFA	46.39	7838.109009
202641010221	202641010221001	QVAR	237.92	7838.109009
202641010231	202641010231001	PROAIR HFA	45.87	7838.109009
202641010251	202641010251001	THEOPHYLLINE	20.07	7838.109009
202641010261	202641010261001	ADVAIR DISKU	233.88	7838.109009
202641010271	202641010271001	IPRATROPIUM	5.67	7838.109009
202641010281	202641010281001	SPIRIVA	267.90	7838.109009
202641010291	202641010291001	LEVOFLOXACIN	6.07	7838.109009
202641010331	202641010331001	PROAIR HFA	46.39	7838.109009
202641010331	202641010331002	PROAIR HFA	45.87	7838.109009
202641010331	202641010331003	PROAIR HFA	45.87	7838.109009
202641010341	202641010341001	QVAR	4163.94	7838.109009
202641010341	202641010341002	QVAR	713.76	7838.109009
202641010341	202641010341003	QVAR	713.76	7838.109009
202641010351	202641010351001	ADVAIR DISKU	233.88	7838.109009
202641010371	202641010371001	THEOPHYLLINE	20.07	7838.109009
202641010371	202641010371002	THEOPHYLLINE	20.07	7838.109009
202641010371	202641010371003	THEOPHYLLINE	20.07	7838.109009
202641010381	202641010381001	SPIRIVA	267.90	7838.109009
202641010381	202641010381002	SPIRIVA	267.90	7838.109009
202641010381	202641010381003	SPIRIVA	267.90	7838.109009
202641010411	202641010411001	IBUPROFEN	110.97	7838.109009
202641010411	202641010411002	IBUPROFEN	110.97	7838.109009
202641010411	202641010411003	IBUPROFEN	110.97	7838.109009
202641010441	202641010441001	PROAIR HFA	45.87	7838.109009
202641010441	202641010441002	PROAIR HFA	45.87	7838.109009
202641010471	202641010471001	PROAIR HFA	45.87	7838.109009
202641010471	202641010471002	VENTOLIN HFA	43.87	7838.109009
202641010481	202641010481001	ADVAIR DISKU	233.88	7838.109009
202641010481	202641010481002	ADVAIR DISKU	233.88	7838.109009
202781020134	202781020134001	ADVAIR DISKU	396.99	2768.490490
202781020144	202781020144001	IPRATROPIUM/	126.00	2768.490490
202781020174	202781020174001	PREDNISONE	1.15	2768.490490
202781020214	202781020214001	ADVAIR DISKU	396.99	2768.490490
202781020224	202781020224001	PROAIR HFA	45.87	2768.490490
202831040081	202831040081001	VENTOLIN HFA	62.99	2352.240154
202831040101	202831040101001	ALBUTEROL	76.99	2352.240154
202831040101	202831040101002	ALBUTEROL	76.99	2352.240154
202831040111	202831040111001	VENTOLIN HFA	62.99	2352.240154
202831040121	202831040121001	ALBUTEROL	76.99	2352.240154
202831040121	202831040121002	ALBUTEROL	76.99	2352.240154
202831040131	202831040131001	PREDNISOLONE	36.99	2352.240154
202831040141	202831040141001	VENTOLIN HFA	62.99	2352.240154
202851040101	202851040101001	MONTELUKAST	105.60	22229.558338
202851040191	202851040191001	PROAIR HFA	34.69	22229.558338
202851040201	202851040201001	MONTELUKAST	29.74	22229.558338
202851040201	202851040201002	MONTELUKAST	29.74	22229.558338
202971030121	202971030121001	XOPENEX HFA	51.15	4333.030621
202971030131	202971030131001	ALBUTEROL	72.57	4333.030621

LINKIDX	RXRECIDX	RXNAME	RXXP13X	PERWT13F
203141030041	203141030041001	PROVENTIL	54.58	2914.415455
203411010441	203411010441001	DULERA	223.67	8976.320877
203411010441	203411010441002	DULERA	223.67	8976.320877
203411010441	203411010441003	DULERA	223.67	8976.320877
203411010441	203411010441004	DULERA	223.67	8976.320877
203451020121	203451020121001	ADVAIR HFA	326.99	14832.750240
203451020121	203451020121002	ADVAIR HFA	326.99	14832.750240
203451020121	203451020121003	ADVAIR HFA	326.99	14832.750240
203451020161	203451020161001	ADVAIR HFA	342.99	14832.750240
203451020161	203451020161002	ADVAIR HFA	342.99	14832.750240
203451020161	203451020161003	ADVAIR HFA	342.99	14832.750240
203451020161	203451020161004	ADVAIR HFA	342.99	14832.750240
203451020241	203451020241001	PREDNISONE	27.98	14832.750240
203451020251	203451020251001	AZITHROMYCIN	44.99	14832.750240
203451020271	203451020271001	ADVAIR HFA	353.99	14832.750240
203451020271	203451020271002	ADVAIR HFA	353.99	14832.750240
203451020271	203451020271003	ADVAIR HFA	353.99	14832.750240
203451020271	203451020271004	ADVAIR HFA	353.99	14832.750240
203451020271	203451020271005	ADVAIR HFA	353.99	14832.750240
203451030051	203451030051001	Advair	253.37	9445.971672
203451030051	203451030051002	Advair	253.37	9445.971672
203451030051	203451030051003	Advair	253.37	9445.971672
203451030061	203451030061001	ALBUTEROL	76.99	9445.971672
203451030101	203451030101001	Advair	253.37	9445.971672
203451030101	203451030101002	Advair	253.37	9445.971672
203451030101	203451030101003	Advair	253.37	9445.971672
203451030101	203451030101004	Advair	253.37	9445.971672
203451030111	203451030111001	ALBUTEROL	76.99	9445.971672
203451030111	203451030111002	ALBUTEROL	76.99	9445.971672
203451030141	203451030141001	Advair	253.37	9445.971672
203451030141	203451030141002	Advair	253.37	9445.971672
203451030141	203451030141003	Advair	253.37	9445.971672
203451030141	203451030141004	Advair	253.37	9445.971672
203451030141	203451030141005	Advair	253.37	9445.971672
203451030151	203451030151001	ALBUTEROL	76.99	9445.971672
203451030151	203451030151002	ALBUTEROL	76.99	9445.971672
203451030151	203451030151003	ALBUTEROL	76.99	9445.971672
203451030151	203451030151004	ALBUTEROL	76.99	9445.971672
203451030151	203451030151005	ALBUTEROL	76.99	9445.971672
203591010251	203591010251001	DULERA	699.30	5767.614461
203591010411	203591010411001	DULERA	699.30	5767.614461
203591010411	203591010411002	DULERA	699.30	5767.614461
203591010411	203591010411003	DULERA	699.30	5767.614461
203591010411	203591010411004	DULERA	699.30	5767.614461
203591010411	203591010411005	DULERA	699.30	5767.614461
203591010411	203591010411006	DULERA	699.30	5767.614461
203591010411	203591010411007	DULERA	699.30	5767.614461
203591010541	203591010541001	DULERA	699.30	5767.614461
203661020121	203661020121001	MONTELUKAST	26.95	5151.081659
203661020131	203661020131001	SYMBICORT	741.26	5151.081659
203661020131	203661020131002	SYMBICORT	741.26	5151.081659
203661020131	203661020131003	SYMBICORT	741.26	5151.081659
203661020181	203661020181001	MONTELUKAST	26.95	5151.081659
203661020181	203661020181002	MONTELUKAST	26.95	5151.081659
203661020191	203661020191001	DULERA	228.42	5151.081659
203661020191	203661020191002	DULERA	228.42	5151.081659
203661020231	203661020231001	MONTELUKAST	26.95	5151.081659
203661020231	203661020231002	MONTELUKAST	26.95	5151.081659
203661020231	203661020231003	MONTELUKAST	26.95	5151.081659
203661020231	203661020231004	MONTELUKAST	26.95	5151.081659
203661020241	203661020241001	ALBUTEROL	4.00	5151.081659
203661020241	203661020241002	ALBUTEROL	4.00	5151.081659
203921011171	203921011171001	PROAIR HFA	67.99	5277.489496
203921011171	203921011171002	PROAIR HFA	67.99	5277.489496
203921011171	203921011171003	PROAIR HFA	67.99	5277.489496
203921011171	203921011171004	PROAIR HFA	67.99	5277.489496
203921011171	203921011171005	PROAIR HFA	67.99	5277.489496
203921011171	203921011171006	PROAIR HFA	67.99	5277.489496
203951020061	203951020061001	PROAIR HFA	47.33	3943.009041
203951020111	203951020111001	ALBUTEROL	9.60	3943.009041
204191050101	204191050101001	PROVENTIL	53.22	3846.072238
204191050101	204191050101002	PROVENTIL	53.22	3846.072238

LINKIDX	RXRECIDX	RXNAME	RXXP13X	PERWT13F
204191050101	204191050101003	PROVENTIL	53.22	3846.072238
204191050101	204191050101004	PROVENTIL	53.22	3846.072238
204191050101	204191050101005	PROVENTIL	53.22	3846.072238
204191050101	204191050101006	PROVENTIL	53.22	3846.072238
204191050111	204191050111001	EPIPEN- JR	275.05	3846.072238
204191050111	204191050111002	EPIPEN- JR	275.05	3846.072238
204191050111	204191050111003	EPIPEN- JR	275.05	3846.072238
204191050111	204191050111004	EPIPEN- JR	275.05	3846.072238
204191050111	204191050111005	EPIPEN- JR	275.05	3846.072238
204191050111	204191050111006	EPIPEN- JR	24.00	3846.072238
204191060131	204191060131001	OXYBUTYNIN	7.91	4131.221457
204191060131	204191060131002	OXYBUTYNIN	7.91	4131.221457
204191060131	204191060131003	OXYBUTYNIN	7.91	4131.221457
204191060131	204191060131004	OXYBUTYNIN	7.91	4131.221457
204241050121	204241050121001	VENTOLIN HFA	41.59	2505.087343
204241050131	204241050131001	VENTOLIN HFA	41.59	2505.087343
204251010801	204251010801001	ADVAIR HFA	342.99	5253.340977
204271040121	204271040121001	Fluticas NAS SPR	24.61	3216.392861
204551040011	204551040011001	Advair	274.08	3302.729717
204551040021	204551040021001	FLUTICASONE	10.63	3302.729717
204551040031	204551040031001	ALBUTEROL	15.00	3302.729717
204551040041	204551040041001	ALLEGRA ALRG	30.00	3302.729717
204621010031	204621010031001	ALBUTEROL	3.33	940.353341
204621030061	204621030061001	Azithromycin	7.58	596.439882
204621030071	204621030071001	ALBUTEROL	48.99	596.439882
205331010431	205331010431001	LEVOCETIRIZI	59.49	8668.564218
205331011051	205331011051001	SYMBICORT	288.23	8668.564218
205331011051	205331011051002	SYMBICORT	288.23	8668.564218
205411010581	205411010581001	COMBIVENT	225.11	2608.865536
205411010581	205411010581002	COMBIVENT	225.11	2608.865536
205411010581	205411010581003	COMBIVENT	225.11	2608.865536
205411010991	205411010991001	COMBIVENT	223.86	2608.865536
205411010991	205411010991002	COMBIVENT	223.86	2608.865536
205531020091	205531020091001	VENTOLIN HFA	17.21	1449.146217
205531020091	205531020091002	VENTOLIN HFA	17.21	1449.146217
205531020091	205531020091003	VENTOLIN HFA	17.21	1449.146217
205531020091	205531020091004	VENTOLIN HFA	17.21	1449.146217
205531020091	205531020091005	VENTOLIN HFA	17.21	1449.146217
205531040031	205531040031001	SINGULAIR	177.14	1527.195611
205651010421	205651010421001	DULERA	235.72	13298.281573
205691020051	205691020051001	PROAIR HFA	34.69	3231.750452
205691020061	205691020061001	Zyflo CR	704.80	3231.750452
205691020061	205691020061002	Zyflo CR	766.48	3231.750452
205691020081	205691020081001	Advair Diskus	789.54	3231.750452
205691020081	205691020081002	ADVAIR DISKU	1028.97	3231.750452
205691020091	205691020091001	VENTOLIN HFA	35.00	3231.750452
205691020091	205691020091002	VENTOLIN HFA	42.41	3231.750452
205691020101	205691020101001	Zyflo CR	766.48	3231.750452
205691020101	205691020101002	Zyflo CR	766.48	3231.750452
205871020071	205871020071001	VENTOLIN HFA	42.96	6424.650124
205871020121	205871020121001	VENTOLIN HFA	42.96	6424.650124
205871020121	205871020121002	VENTOLIN HFA	42.96	6424.650124
205871020121	205871020121003	VENTOLIN HFA	42.96	6424.650124
205871020121	205871020121004	VENTOLIN HFA	42.96	6424.650124
205871020121	205871020121005	VENTOLIN HFA	42.96	6424.650124
205871020121	205871020121006	VENTOLIN HFA	42.96	6424.650124
205871020131	205871020131001	QVAR	110.72	6424.650124
205871020131	205871020131002	QVAR	110.72	6424.650124
205871020131	205871020131003	QVAR	110.72	6424.650124
205871020131	205871020131004	QVAR	110.72	6424.650124
205871020131	205871020131005	QVAR	110.72	6424.650124
205871020131	205871020131006	QVAR	110.72	6424.650124
205951010531	205951010531001	SPIRIVA	310.99	24095.119856
205951010531	205951010531002	SPIRIVA	335.99	24095.119856
205951010541	205951010541001	ADVAIR DISKU	741.60	24095.119856
205951010541	205951010541002	ADVAIR DISKU	741.60	24095.119856
205951010771	205951010771001	SPIRIVA	939.60	24095.119856
205951010771	205951010771002	SPIRIVA	939.60	24095.119856
205951010771	205951010771003	SPIRIVA	310.99	24095.119856
205951010771	205951010771004	SPIRIVA	310.99	24095.119856
205951010771	205951010771005	SPIRIVA	310.99	24095.119856
205951010781	205951010781001	ADVAIR DISKU	264.99	24095.119856

LINKIDX	RXRECIDX	RXNAME	RXXP13X	PERWT13F
205951010781	205951010781002	ADVAIR DISKU	264.99	24095.119856
205951010781	205951010781003	ADVAIR DISKU	755.19	24095.119856
205951010781	205951010781004	ADVAIR DISKU	755.19	24095.119856
205951010781	205951010781005	ADVAIR DISKU	755.19	24095.119856
206161040101	206161040101001	PREDNISOLONE	5.45	10173.920992
206161040111	206161040111001	BUDESONIDE	239.99	10173.920992
206161040171	206161040171001	BUDESONIDE	479.98	10173.920992
206161040201	206161040201001	ALBUTEROL	6.05	10173.920992
206161040211	206161040211001	BUDESONIDE	239.99	10173.920992
206261010681	206261010681001	PULMICORT	163.98	5511.110065
206261010681	206261010681002	PULMICORT	163.98	5511.110065
206311010021	206311010021001	Nasal Spray B - Camphor/Menthol/Eucalyptol/Light Min	12.00	4438.564378
206421010171	206421010171001	PROAIR HFA	206.99	2255.219630
206421010171	206421010171002	PROAIR HFA	206.99	2255.219630
206421010171	206421010171003	PROAIR HFA	206.99	2255.219630
206421010171	206421010171004	PROAIR HFA	206.99	2255.219630
206421010181	206421010181001	ADVAIR	274.77	2255.219630
206421010181	206421010181002	ADVAIR	274.77	2255.219630
206421010181	206421010181003	ADVAIR	274.77	2255.219630

HC-160I

Sample SAS Job for Example B

Total Rx expenditures associated with asthma

Analysis Variable : RXXP13X SUM OF PAYMENTS RXSF13X- RXOU13X(IMPUTED)

N	Sum
10533	1433974.52

HC-160I

Sample SAS Job for Example B

Total Rx expenditures associated with asthma

Weighted

Analysis Variable : RXXP13X SUM OF PAYMENTS RXSF13XRXOU13X(IMPUTED)

N	Sum
10533	14697980784

```
NOTE: Copyright (c) 2002-          2010 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software 9.3 (TS1M2)
NOTE: This session is executing on the W32_7PRO  platform.



NOTE: SAS initialization used:
      real time           1.44 seconds
      c       pu time             0.15 seconds


NOTE: AUTOEXEC processing beginning; file is C:\                    Program Files\       SAS\SASMISC\autoexec_93.sas.


NOTE: DATA statement used (Total process time):
      real time           0.04 seconds
      cpu time            0.04 seconds



NOTE: AUTOEXEC processing completed.

1          ods rtf file = 'C:\                          Data\  sampleC.rtf'
1        ! bodytitle;
NOTE: Writing RTF Body file: C:\                Data\  sampleC.rtf
2
3          ods noproctitle;
4
5          OPTIONS LS=132 PS=59;
6
7          TITLE1 "HC-               160I";
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           0.00 seconds
```

```
    cpu time          0.00 seconds


26
27        *-------------------------------------------------------------------------------
28        * Get conditions records coded as asthma.
29        *-------------------------------------------------------------------------------;
30        DATA ASCONDS;
31          SET IN.H162 (KEEP=CONDIDX CCCODEX);
32          IF CCCODEX="128";
33        RUN;

NOTE: There were 123875 observations read from the data set IN.H162.
NOTE: The data set WORK.ASCONDS has 2469 observations and 2 variables.
NOTE: Compressing data set WORK.ASCONDS increased size by 80.00 percent.
      Compressed is 18 pages; un-                compressed would require 10 pages.
NOTE: DATA statement used (Total process time):
      real time          1.37 seconds
      cpu time           0.07 seconds


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

NOTE: There were 2469 observations read from the data set WORK.ASCONDS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCONDS has 2469 observations and 2 variables.
NOTE: Compressing data set WORK.ASCONDS increased size by 80.00 percent.
      Compressed is 18 pages; un-                compressed would require 10 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


39
40        proc print data=asconds (obs=50);
41          title3 "sample print of work.asconds -                              sorted by condidx";
42          title4 "COND (H162) 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          0.04 seconds
      cpu time           0.04 seconds


44
45        PROC SORT DATA=IN.H160IF1 OUT=CLNK; BY CONDIDX; RUN;

NOTE: There were 357551 observations read from the data set IN.H160IF1.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.CLNK has 357551 observations and 6 variables.
NOTE: Compressing data set WORK.CLNK increased size by 5.90 percent.
```

```
     Compressed is 6763 pages; un-                compressed would require 6386 pages.
NOTE: PROCEDURE SORT used (Total process time):
     real time          1.75 seconds
     cpu time           0.60 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 357551 observations read from the data set WORK.CLNK.
NOTE: There were 2469 observations read from the data set WORK.ASCONDS.
NOTE: The data set WORK.ASCLNKS has 7471 observations and 3 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 26.67 percent.
     Compressed is 76 pages; un-                compressed would require 60 pages.
NOTE: DATA statement used (Total process time):
     real          time          0.21 seconds
     cpu time           0.21 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-         4.
NOTE: PROCEDURE PRINT used (Total process time):
     real time          0.01 seconds
     cpu time           0.01 seconds


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

NOTE: There were 7471 observations read from the data set WORK.ASCLNKS.
NOTE: SAS sort was used.
NOTE: The data set WORK.ASCLNKS has 7471 observations and 3 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 26.67 percent.
     Compressed is 76 pages; un-                compressed would require 60 pages.
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 5.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.01 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 7471 observations read from the data set WORK.ASCLNKS.
NOTE: The data set WORK.ASCLNKS has 7459 observations and 2 variables.
NOTE: Compressing data set WORK.ASCLNKS increased size by 17.78 percent.
      Compressed is 53 pages; un-                compressed would require 45 pages.
NOTE: DATA statement used (Total process time):
      real time          0.01 seconds
      cpu time           0.00 seconds


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

NOTE: There were 50 observations read from the data set WORK.ASCLNKS.
NOTE: The PROCEDURE PRINT printed page 6.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.01 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.H160G (KEEP=EVNTIDX PERWT13F SEETLKPV OBXP13X);
85          IF PERWT13F > 0 & SEETLKPV NE 2;
86        RUN;

NOTE: There were 165764 observations read from the data set IN.H160G.
NOTE: The data set WORK.MVIS has 160755 observations and 4 variables.
NOTE: Compressing data set WORK.MVIS increased size by 6.28 percent.
      Compressed is 1693 pages; un-                compressed would require 1593 pages.
NOTE: DATA statement used (Total process time):
      real time          3.87 seconds
      cpu time           0.32 seconds


87
```

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

NOTE: There were 160755 observations read from the data set WORK.MVIS.
NOTE: SAS threaded sort was used.
NOTE: The data set WORK.MVIS has 160755 observations and 4 variables.
NOTE: Compressing data set WORK.MVIS increased size by 6.28 percent.
      Compressed is 1693 pages; un-              compressed would require 1593 pages.
NOTE: PROCEDURE SORT used (Total process time):
      real time          0.19 seconds
      cpu time           0.20 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 7459 observations read from the data set WORK.ASCLNKS.
NOTE: There were 160755 observations read from the data set WORK.MVIS.
NOTE: The data set WORK.ASMVIS has 2101 observations and 5 variables.
NOTE: Compressing data set WORK.ASMVIS decreased size by 0.00 percent.
      Compressed is 26 pages; un-              compressed would require 26 pages.
NOTE: DATA statement used (Total process time):
      real time          0.08 seconds
      cpu time           0.09 seconds


99
100     proc print data=asmvis (obs=50);
101       format eventype eventype.;
102       title3 "sample print of work.asmvis";
103       title4 "unique evntidxs from work.asclnks that are non-                    telephone MVIS (HC-      160G) events";
104     run;

NOTE: There were 50 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE PRINT printed       page 7.
NOTE: PROCEDURE PRINT used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


105
106     PROC MEANS DATA=ASMVIS N SUM;
107       VAR OBXP13X;
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 2101 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE MEANS printed page 8.
NOTE: PROCEDURE MEANS used (Total process time):
```

real time 0.02 seconds
cpu time 0.03 seconds

```
110
111       PROC MEANS DATA=ASMVIS N SUM;
112         VAR OBXP13X;
113         WEIGHT PERWT13F;
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 2101 observations read from the data set WORK.ASMVIS.
NOTE: The PROCEDURE MEANS printed page 9.
NOTE: PROCEDURE MEANS used (Total process time):
real time 0.01 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 11.13 seconds
cpu time 2.02 seconds

HC-160I

Sample SAS Job for Example C

sample print of work.asconds - sorted by condidx

COND (H162) records where cccodex=128

Obs	CONDIDX	CCCODEX
1	200321020011	128
2	200331040011	128
3	200331080011	128
4	200341010041	128
5	200411050011	128
6	200461030011	128
7	200591010021	128
8	200591020021	128
9	200591030011	128
10	200891020081	128
11	200941010021	128
12	200941020051	128
13	200961010081	128
14	200961020021	128
15	200961030011	128
16	201091060011	128
17	201391010061	128
18	201501020021	128
19	201731020021	128
20	201751010042	128
21	201751010062	128
22	201781010031	128
23	201791020011	128
24	201921020051	128
25	202221010031	128
26	202301020021	128
27	202301030011	128
28	202301050061	128
29	202541010021	128
30	202551030021	128
31	202571010021	128
32	202621020042	128
33	202621060012	128
34	202641010041	128
35	202641010061	128
36	202781020011	128
37	202831040011	128
38	202831040021	128
39	202851040011	128
40	202971030011	128
41	203141030011	128
42	203341010051	128
43	203411010021	128
44	203451020021	128
45	203451030011	128
46	203591010041	128
47	203661020011	128
48	203921010051	128
49	203951020021	128
50	204191040061	128

HC-160I

Sample SAS Job for Example C

sample print of work.asclnks - sorted by condidx

events linked to asthma condition records

CONDIDX	EVNTIDX	EVENTYPE
200331040011	200331040011	8 PMED
200331080011	200331080011	1 MVIS
200331080011	200331080021	8 PMED
200331080011	200331080031	8 PMED
200341010041	200341010771	1 MVIS
200411050011	200411050151	8 PMED
200411050011	200411050161	8 PMED
200411050011	200411050171	8 PMED
200461030011	200461030031	8 PMED
200591010021	200591010531	8 PMED
200591030011	200591030151	8 PMED
200591030011	200591030181	8 PMED
200941010021	200941010271	8 PMED
200941010021	200941010431	8 PMED
200941020051	200941020231	7 HVIS
200941020051	200941020381	7 HVIS
200961010081	200961010441	1 MVIS
200961010081	200961011161	1 MVIS
200961010081	200961011171	1 MVIS
200961010081	200961011181	1 MVIS
200961020021	200961020071	1 MVIS
200961020021	200961020101	8 PMED
200961020021	200961020111	8 PMED
201391010061	201391010681	1 MVIS
201391010061	201391010691	1 MVIS
201391010061	201391010701	1 MVIS
201391010061	201391010721	1 MVIS
201391010061	201391010731	1 MVIS
201391010061	201391010741	1 MVIS
201391010061	201391010751	1 MVIS
201391010061	201391010991	8 PMED
201391010061	201391011101	8 PMED
201501020021	201501020391	8 PMED
201501020021	201501020401	8 PMED
201731020021	201731020261	8 PMED
201731020021	201731020381	1 MVIS
201731020021	201731020431	8 PMED
201731020021	201731020461	8 PMED
201731020021	201731020491	1 MVIS
201731020021	201731020521	8 PMED
201731020021	201731020531	8 PMED
201751010042	201751010142	8 PMED
201751010062	201751010132	1 MVIS
201781010031	201781010611	8 PMED
201791020011	201791020041	8 PMED
201791020011	201791020061	8 PMED
201791020011	201791020101	8 PMED
201921020051	201921020091	1 MVIS
201921020051	201921020661	8 PMED
201921020051	201921020781	8 PMED
202301020021	202301020021	1 MVIS
202301020021	202301020031	8 PMED
202301020021	202301020041	8 PMED
202301030011	202301030021	1 MVIS
202301030011	202301030041	8 PMED
202301030011	202301030051	8 PMED
202301030011	202301030061	1 MVIS
202301030011	202301030081	8 PMED
202301030011	202301030091	8 PMED
202301030011	202301030101	8 PMED
202301030011	202301030111	8 PMED
202301030011	202301030121	8 PMED
202301030011	202301030131	8 PMED
202301050061	202301050131	1 MVIS

CONDIDX	EVNTIDX	EVENTYPE
202301050061	202301050141	1 MVIS
202301050061	202301050151	1 MVIS
202301050061	202301050181	8 PMED
202301050061	202301050251	8 PMED
202541010021	202541010381	1 MVIS
202541010021	202541010391	1 MVIS
202541010021	202541010411	8 PMED
202541010021	202541010461	8 PMED
202551030021	202551030051	8 PMED
202621020042	202621020192	7 HVIS
202621020042	202621020222	1 MVIS

Sample SAS Job for Example C

sample print of work.asclnks - sorted by evntidx

Obs	CONDIDX	EVNTIDX	EVENTYPE
1	200331040011	200331040011	8 PMED
2	200331080011	200331080011	1 MVIS
3	200331080011	200331080021	8 PMED
4	200331080011	200331080031	8 PMED
5	200341010041	200341010771	1 MVIS
6	200411050011	200411050151	8 PMED
7	200411050011	200411050161	8 PMED
8	200411050011	200411050171	8 PMED
9	200461030011	200461030031	8 PMED
10	200591010021	200591010531	8 PMED
11	200591030011	200591030151	8 PMED
12	200591030011	200591030181	8 PMED
13	200941010021	200941010271	8 PMED
14	200941010021	200941010431	8 PMED
15	200941020051	200941020231	7 HVIS
16	200941020051	200941020381	7 HVIS
17	200961010081	200961010441	1 MVIS
18	200961010081	200961011161	1 MVIS
19	200961010081	200961011171	1 MVIS
20	200961010081	200961011181	1 MVIS
21	200961020021	200961020071	1 MVIS
22	200961020021	200961020101	8 PMED
23	200961020021	200961020111	8 PMED
24	201391010061	201391010681	1 MVIS
25	201391010061	201391010691	1 MVIS
26	201391010061	201391010701	1 MVIS
27	201391010061	201391010721	1 MVIS
28	201391010061	201391010731	1 MVIS
29	201391010061	201391010741	1 MVIS
30	201391010061	201391010751	1 MVIS
31	201391010061	201391010991	8 PMED
32	201391010061	201391011101	8 PMED
33	201501020021	201501020391	8 PMED
34	201501020021	201501020401	8 PMED
35	201731020021	201731020261	8 PMED
36	201731020021	201731020381	1 MVIS
37	201731020021	201731020431	8 PMED
38	201731020021	201731020461	8 PMED
39	201731020021	201731020491	1 MVIS
40	201731020021	201731020521	8 PMED
41	201731020021	201731020531	8 PMED
42	201751010062	201751010132	1 MVIS
43	201751010042	201751010142	8 PMED
44	201781010031	201781010611	8 PMED
45	201791020011	201791020041	8 PMED
46	201791020011	201791020061	8 PMED
47	201791020011	201791020101	8 PMED
48	201921020051	201921020091	1 MVIS
49	201921020051	201921020661	8 PMED
50	201921020051	201921020781	8 PMED

Sample SAS Job for Example C

sample print of unique evntidxs from work.asclnks

Obs	EVNTIDX	EVENTYPE
1	200331040011	8 PMED
2	200331080011	1 MVIS
3	200331080021	8 PMED
4	200331080031	8 PMED
5	200341010771	1 MVIS
6	200411050151	8 PMED
7	200411050161	8 PMED
8	200411050171	8 PMED
9	200461030031	8 PMED
10	200591010531	8 PMED
11	200591030151	8 PMED
12	200591030181	8 PMED
13	200941010271	8 PMED
14	200941010431	8 PMED
15	200941020231	7 HVIS
16	200941020381	7 HVIS
17	200961010441	1 MVIS
18	200961011161	1 MVIS
19	200961011171	1 MVIS
20	200961011181	1 MVIS
21	200961020071	1 MVIS
22	200961020101	8 PMED
23	200961020111	8 PMED
24	201391010681	1 MVIS
25	201391010691	1 MVIS
26	201391010701	1 MVIS
27	201391010721	1 MVIS
28	201391010731	1 MVIS
29	201391010741	1 MVIS
30	201391010751	1 MVIS
31	201391010991	8 PMED
32	201391011101	8 PMED
33	201501020391	8 PMED
34	201501020401	8 PMED
35	201731020261	8 PMED
36	201731020381	1 MVIS
37	201731020431	8 PMED
38	201731020461	8 PMED
39	201731020491	1 MVIS
40	201731020521	8 PMED
41	201731020531	8 PMED
42	201751010132	1 MVIS
43	201751010142	8 PMED
44	201781010611	8 PMED
45	201791020041	8 PMED
46	201791020061	8 PMED
47	201791020101	8 PMED
48	201921020091	1 MVIS
49	201921020661	8 PMED
50	201921020781	8 PMED

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Sample SAS Job for Example C

sample print of work.asmvis

unique evntidxs from work.asclnks that are non- telephone MVIS (HC- 160G) events

Obs	EVNTIDX	EVENTYPE	SEETLKPV	OBXP13X	PERWT13F
1	200331080011	1 MVIS	1	71.74	6343.16
2	200341010771	1 MVIS	1	39.89	3445.84
3	200961010441	1 MVIS	1	25.00	2494.91
4	200961011161	1 MVIS	1	130.50	2494.91
5	200961011171	1 MVIS	1	13.81	2494.91
6	200961011181	1 MVIS	1	13.81	2494.91
7	200961020071	1 MVIS	1	122.00	1891.11
8	201391010681	1 MVIS	1	76.15	8890.83
9	201391010691	1 MVIS	1	0.00	8890.83
10	201391010701	1 MVIS	1	671.68	8890.83
11	201391010721	1 MVIS	1	97.42	8890.83
12	201391010731	1 MVIS	1	103.49	8890.83
13	201391010741	1 MVIS	1	66.15	8890.83
14	201391010751	1 MVIS	1	66.15	8890.83
15	201731020381	1 MVIS	1	216.06	11122.53
16	201731020491	1 MVIS	1	78.35	11122.53
17	201751010132	1 MVIS	1	77.80	5544.85
18	**201921020091**	**1 MVIS**	**1**	**73.00**	**17007.19**