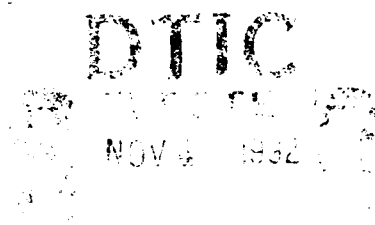


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HEALTH CARE STUDIES AND
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AMBULATORY CLASSIFICATION EVALUATION
STUDY SERIES

EVALUATION OF THE PRODUCTS OF AMBULATORY CARE
AND PRODUCTS OF AMBULATORY SURGERY
CLASSIFICATION SYSTEM FOR THE MILITARY HEALTH
CARE SYSTEM

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The Evaluation of Ambulatory Classification Systems Series

Reports published in this series:

by LTC James M. Georgoulakis, LTC Atanacio C. Guillen, Nancy K. Willcockson, MAJ Juliana Ellis-Billingsley, and David R. Bolling

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19. ABSTRACT (Continuation)

The study team utilized a sample of data from the Army Medical Department's Ambulatory Care Database (ACDB) to evaluate the PAC/PAS system. The sample consisted of 516,006 visits from six Army Medical Treatment Facilities (MTFs).

The criteria designed to evaluate the PAC/PAS were:

- (1) Clinical Relevance, from a clinical perspective did the groups make sense;
- (2) Administrative Ease of Implementation,
- (3) Statistical Analysis of the grouper results; (e.g., how accurately does the grouper account for resources); (4) Military Applicability, (e.g., can this system be utilized in an extensive and diverse military environment)?

The results of this investigation indicated a number of significant findings. First, the PAC/PAS groups were developed using sound medical logic. However, this must be tempered with the fact that even with the addition of the surgical visits the PAC groups remain excessively broad in terms of clinical meaningfulness. Second, the PAC/PAS system grouped 99.7% of the ambulatory visits. All twenty-four of the PACs were used but only twenty-eight of the forty-two PAS groups were utilized. Although nearly all the visits grouped, this grouping was not accomplished without some difficulties. For example, the logic that places the procedures into PAC 21 (Audiological Testing) requires that the procedures be performed by an audiologist. In the Army, an audiology procedure might be performed by a technician rather than an audiologist, thus causing the visit to be grouped into another PAC.

Other misgroupings were a result of differences in clinic organization. For example, the Army has audiology clinics, but the PAC grouper does not recognize this entity and treats this as a part of the ears, nose and throat (ENT) clinic. Despite these differences, the PAC/PAS appeared to be grouping appropriately. Third, the variables required for the grouping program are readily obtainable. Fourth the results of the statistical analyses of the PAC/PAS grouper using cost formulas developed by the study team varied depending on the cost formula employed.

The amount of variance accounted for (amount of resources accounted for by the model) varied from 0.07 to 0.29. The relatively small amount of variance accounted for may be due to a number of factors. One factor is the rudimentary nature of the ACES cost methodology. A second factor is the difficulty in applying any grouper to a different population from which it was developed.

In summary based on the results obtained in this study, the Products of Ambulatory Care (PAC), and the Products of Ambulatory Surgery (PAS) have a number of positive aspects. With modifications, this system would merit strong consideration as a viable system for the military to use as an ambulatory classification system for the purpose of allocating resources.

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assistance, but especially for her patience in working with a
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EXECUTIVE SUMMARY

The Ambulatory Care Evaluation Study (ACES) examined the Products of Ambulatory Care (PACs) and Products of Ambulatory Surgery (PAS) developed by the State of New York Department of Health for possible implementation by the military. The PAC/PAS system is a visit based ambulatory classification system designed to group clinically similar visits with those visits that utilize like amounts of resources. The system was developed with data derived from a comprehensive data set of 10,000 visits from outpatient and free standing clinics, located in Bronx County, and New York State's Northeast region. An individual patient visit is assigned to a PAC using a combination of gender, age, procedure(s) based on the Physicians' Current Procedural Terminology (CPT) and diagnosis according to the International Classification of Diseases, 9th Edition with Clinical Modification, (ICD-9-CM). A patient visit is assigned to a PAS if the procedure is defined as a surgical procedure.

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In summary based on the results obtained in this study, the Products of Ambulatory Care (PAC), and the Products of Ambulatory Surgery (PAS) have a number of positive aspects. With modifications, this system would merit strong consideration as a viable system for the military to use as an ambulatory classification system for the purpose of allocating resources.

INTRODUCTION

In the 1986 Omnibus Budget Reconciliation Act (OBRA), Congress directed the Health Care Financing Administration (HCFA) to develop an Outpatient Prospective Payment System (PPS) for the facility component of Medicare. This directive was based on the success of Medicare's inpatient facility prospective payment system in controlling medicare expenditures. In accordance with this mandate, HCFA issued grants to various organizations to develop a prospective payment system for the facility component of ambulatory care. Based on this mandate, Congress in the National Defense Appropriation Act of 1987, (NDA 1987, P.L. 99-661. Sec. 701, USC 1101), directed the Department of Defense, (DOD), to revise the method of allocating resources within the military health care system. The act specified that DOD implement a Diagnosis Related Groups (DRGs) type system to allocate resources to its medical treatment facilities (MTFs). The system for inpatient care was scheduled for implementation on 1 October 1987, but was not implemented until 1 October 1988. The system for outpatient facility resource allocation was initially scheduled for implementation on 1 October 1988. However, recognizing the challenges in developing an ambulatory classification system, Congress, in subsequent National Defense Authorization Acts (NDAA) for fiscal years' 1989-1991, extended the deadline for the implementation of an outpatient system until 1 October 1993. At the time of this report (September 1992),

Congress had not selected an outpatient prospective payment system.

Purpose of the Study

To assist the DOD in meeting of the objectives of the congressional mandate and to study the potential impact of a new method of allocating resources, the U.S. Army Medical Department initiated the Ambulatory Classification Evaluation Study (ACES). The purpose of the study was to review the available ambulatory classification systems for possible implementation by the military. The ACES study team utilized military data that was collected from the Army Surgeon General's Ambulatory Care Data Base (ACDB) Study (Georgoulakis, et al., 1988).

DEVELOPMENT OF THE PRODUCTS OF AMBULATORY CARE AND PRODUCTS OF AMBULATORY SURGERY CLASSIFICATION SYSTEM

The Products of Ambulatory Care (PACs) were developed by the New York State Health Department (Tenan, et al., 1988) under a grant from the Health Care Financing Administration (HCFA). This report will re-examine the PACs to determine the changes that will occur in the overall effectiveness of the PACs as an ambulatory classification system as a result of adding the PASSs to the grouping model. The PACs were added to the PAC system in 1990, as an effort to develop a more comprehensive system. The PACs is an ambulatory care classification system designed for reimbursing hospital clinics and community health centers for Medicaid patients. PACs are based on the concept of bundling together the medical services typically received by well defined groups of patients. The medical services provided to these

patients include all the labor (professional) and ancillary service costs related to a specific visit. These service bundles are the case mix sensitive part of the PAC price. The second part of the PAC price is composed of a facility specific cost component.

Prior to the development of the PACs, the New York State Department of Health Ambulatory Care Reimbursement Study Group reviewed previous efforts to classify ambulatory care services. Concurrently, they collected a comprehensive data set of approximately 10,000 visits from outpatient and free-standing clinics, located in Bronx County and New York State's Northeast region. Dental, mental health, ambulatory surgery, emergency department, and renal dialysis clinics were not included in the sample nor in the resulting initial classification system. However, a small number of mental health services such as discharge planning, or drug and alcohol counseling services were also collected. Following critical element edits and a review of the data by clinical advisory groups, an expense methodology was developed to account for labor, ancillary and facility costs. Employing the Statistical Analysis System (SAS) in conjunction with Autogroup (a software program for grouping medical data) in an iterative process with their clinical advisory groups, patterns of relationships among services and procedures were established. Finally, based on the intersection of patient characteristics (i.e., age, gender) and services (i.e., diagnosis

or management), twenty-four mutually exclusive PAC groups were established.

The PAC system has been serving as a payment system in New York since 1987. Moreover, according to Herb Fillmore of the New York Health Department (personal communication 19 April 1991), this method of payment has not only met with acceptance by Medicaid providers in New York State, but has resulted in additional providers requesting consent to participate in the demonstration project. In early 1990, the PACs were expanded to include Ambulatory Surgery visits (Products of Ambulatory Surgery-PASs), and in the process the total number of groups was increased from the original 24 to 66. Unlike the PACs that group visits using a combination of gender, age, procedure(s), and diagnosis(ses), the PAS groups only according to procedure(s) contained in the Physicians' Current Procedural Terminology (CPT). If a visit contains a specific procedure, that visit is grouped into the PAS that contains those procedures. A complete list of procedures, by CPT, and the corresponding PAS are listed in Appendix A. Appendix B contains a similar listing but this list is ordered by PAS number rather than procedure code.

METHODOLOGY

Sample

An effective evaluation of any ambulatory classification system is best accomplished through the use of a large data base containing a diversity of patients (i.e., age and gender) and types of visit (i.e., procedures and diagnoses). The ACES team

used a sample of data from the Army Medical Department's Ambulatory Care Data Base Study (ACDB) which met these requirements (Georgoulakis, et al., 1988). Researchers conducting the ACDB study collected clinical data on visits from all outpatient departments. During the twenty-one month data collection phase of the study, over 3.1 million patient visits were recorded from six study hospitals. These visits represented care provided by more than 4,000 health care providers across all Army outpatient medical specialties. For the purpose of this study, the researchers randomly selected 516,006 visits from the 3.1 million visits contained in the data base. This data is referred to as Sample 1.

Data Collection Instruments

Because of the magnitude of the project, Mark Sense Technology was selected as the most appropriate and cost efficient method of data collection. Mark Sense Technology allows for pencil entries to be electronically scanned for data and subsequently entered into a computerized data base. In order to gain the most benefit from the study, a data collection form was developed for each specialty. The patient collection instruments consisted of the same categories of data elements across all specialties. The forms contained four sections, the first section was completed by the patient and consisted of identifying information (e.g., social security number, age). The second section contained administrative information that was completed by the clinic receptionist or secretary. An example of this type

of information is the location of visit (e.g., clinic, ward, home, etc.) The third and fourth sections required completion by health care providers. Elements in this section included length of time spent with the patient, diagnoses and procedures, disposition, etc.

Study Hospitals

The six hospitals selected for the study, having diverse missions and populations, constituted a representative sample of Army Medical Department health care. Collectively, these hospitals serve a catchment area population of nearly a half million (424,000) beneficiaries. For example, Brooke Army Medical Center (BAMC), Fort Sam Houston, Texas (San Antonio) is a 500 bed facility, that in addition to providing a complete array of outpatient services is a teaching hospital and operates a Level I trauma center. BAMC serves over 17,000 active-duty military personnel; 53,000 military family members, and 39,000 retired military beneficiaries (Annals of Emergency Medicine, 1989). Additionally, BAMC serves as one of three trauma centers in San Antonio, accepting all unstable civilian emergencies within its geographic catchment area. Womack Army Community Hospital, Fort Bragg, North Carolina, (Fayetteville) is a 300 bed facility and in addition to providing extensive outpatient services, contains a Level II trauma center. Womack provides care to the 82nd Airborne Division as well as large family member and retired military populations. The total population served is in excess of 125,000 beneficiaries. The remaining four hospitals

in the study operate Level III emergency departments. Moncrief Army Community Hospital, Fort Jackson, South Carolina, (Columbia), provides access to a large population of basic trainees, some tenant troops (troops who have their headquarters at a different installation), retirees, and family members. Moncrief also provides a full array of outpatient services and operates 175 beds. Moncrief's catchment population contains slightly more than 55,000 beneficiaries. Blanchfield Army Community Hospital, Fort Campbell, Kentucky, (Clarksville), is a 200 bed facility and provides services to the 101st Airborne Division, family members and a retired population. The beneficiary population of Blanchfield is approximately 70,000. Bayne-Jones Army Hospital, Fort Polk, Louisiana, (Leesville), operates 150 beds, as well as providing a full array of outpatient services to service members, their families, and retirees. Bayne-Jones catchment population is around 40,000. The final medical treatment facility included in the study was Fox Army Community Hospital at Redstone Arsenal in Huntsville, Alabama. This hospital serves a stable military and beneficiary population of approximately 25,000 individuals. Fox primarily provides outpatient services and is a 100 bed facility.

Clinical Reliability Of The Data

To provide an accurate and objective assessment of the quality of the data collected in the ACDB, a standardized scoring instrument was developed. Utilizing a modified Delphi technique (Polit & Hungler, 1983) the most important administrative and

clinical data elements collected in the patient visits was determined. Each of the data elements was then discussed, rank ordered, and assigned a relative value in terms of importance to the study. Using this weighing process, members of the study group selected three administrative and two clinical data elements. The data elements which represented the administrative area included the sponsor's social security number with the patient's family member prefix, the date of visit, and the clinic code. The selected clinical data elements consisted of the primary diagnosis, procedure, code, and the health care provider identification code. Following a pilot study, a sample of 9,015 medical records were compared with the ACDB records. An analysis of the records indicated a mean score of 10.56 (11 was the maximum score) and a standard deviation of 1.27. This indicates an extremely high degree of reliability between the medical record and the ACDB record.

Diagnostic and Procedural Code Remapping

Under the direction of the physician member of the Ambulatory Classification Evaluation Study (ACES) staff, the diagnosis and procedure codes that were extended in the ACDB Study were recorded into conventional ICD-9-CM and CPT nomenclature. Consultants from various specialties assisted in recoding more esoteric procedures. Clinical department chiefs at Brooke Army Medical Center (BAMC) provided most consultations. The proximity of BAMC simplified in-person and telephonic consultations.

Unfortunately, many consultants were unfamiliar with CPT codes, so they provided information that the staff physician used to recode the extended procedure codes. In these cases, the consultants did not provide the actual codes but their input assisted the staff physician in making selections. This method of code selection offered greater uniformity and reduced specialty bias in the recoding process.

Some procedures listed on the data collection forms were more specific and some less specific than those in CPT. When the listed procedure possessed multiple CPT counterparts, a CPT code of common or medium technical weight was assigned. This is especially evident in assignment of codes for surgical procedures. CPT specifies surgical procedures by anatomical site, and the ACDB clinical data does not.

The lists of codes for diagnoses were developed based on ICD-9-CM. Additional codes were created so that more specificity regarding diagnoses could be captured. Although these expanded codes provided valuable information, they presented a problem in that the algorithms being used for classification recognized only valid ICD-9-CM codes. Therefore, it was necessary to map any modified diagnosis codes to the most equivalent ICD-9-CM code.

During the ACDB Study, a total of 5,990 different diagnosis codes were utilized. Of these codes, a little less than one third (1,890) were modified ICD-9-CM codes.

Under contract, two companies Code 3 and Health Systems

International remapped the extended diagnosis and procedure codes to the appropriate ICD-9-CM and CPT classification system. This involved approximately 70% of the diagnoses and procedures that required remapping. In most cases, Code 3 mapping of diagnoses was used. Specialty areas either not coded or only partially coded by Code 3 were Nutrition Care, Social Work, Psychology, Occupational Therapy, and those portions of Physical Therapy and Orthopedics associated with appliances and durable medical equipment.

Of the 1,890 modified codes, 101 were from the Social Work forms. Of all the diagnosis mapping, this area was the most difficult, since many problems did not lend themselves to the disease classification system. Examples of these are: Illiterate; poor money management; unreliable transportation; and resource delay responding to need. However, expertise in this area was available within the study group, and the most appropriate ICD-9-CM choices were made. Diagnosis mapping was reviewed by specialists in many areas and their input was used to produce the final map.

The percentage of diagnoses and procedures requiring recoding varied among specialties. For example, all procedures listed on the Neurology Clinic form were bonafide CPT codes, whereas all procedures listed for Nutritional Clinic were extended codes not found in CPT, since CPT (as mentioned earlier) is designed for physician services.

Many very specific procedures, and frequently minor ones,

with no corresponding CPT codes were recoded to general services codes (minimal, brief, extended service, etc.) This occurred more frequently with the primary care and non-surgical specialties because of the nature of the CPT system. The system contains more codes for surgical procedures thus allowing for greater specificity in that area.

Twenty-one of the 50 most commonly used procedures required coding to general services. The assigned level of service generally corresponded to the estimated amount of time required to perform the indicated procedure (less than 15 minutes was minimal, 15 to 30 minutes was counted as brief, etc.) Supplies and other resources consumed also received consideration during the assignment to general service procedures.

Many ACDB visits contain multiple procedures. Since a number of procedures designated on the data collection forms were recoded to general services, some visits appeared to be a combination of two or more general services (such as a minimal service visit plus a brief service visit). If two codes were mapped to the same code, duplicates were eliminated. Appendices A and B contain code conversions for procedures and diagnoses respectively.

Another problem arising over coding conventions used on the data collection forms centered around the ICD-9-CM diagnosis code V655, described as "Person with feared complaint in which no diagnosis was made." This code was listed on the forms as "No Problem Noted" and was available for use by all health care

providers involved in the data collection effort.

Since over eight percent of visits in the data base contained this diagnosis, a careful analysis by clinic was done. A good number of the V655 diagnoses were for various types of physical exams, including eye exams.

To provide more precision in visits where V655 was used, several corrective steps were taken. If a meaningful secondary diagnosis had been provided, then that diagnosis was used. If no secondary diagnosis had been provided, then other V codes with a higher degree of specificity were selected by the research physician on the team. A list of the more specific diagnosis codes by clinic are provided in Appendix D.

Special Coding Considerations

In order to use pertinent ancillary services data (i.e., number and type of x-rays, number of prescriptions, number of laboratory tests) captured on the front of the data collection form, information had to be translated into a coding format. For example, the Ordered Out of Clinic box contained information on specific types of x-rays like CT Scan and MR Scan. However, no CPT code was used to designate which type of CT Scan or MR Scan was used. The study team physician reviewed the data to determine the most appropriate codes in each case. In some clinics, there was a possibility that a particular radiological procedure might have been marked on both the front and back of the form. In order to avoid double counting of radiological procedures, the algorithm contained in Table 1 was developed.

Some of the information from the front of the form was converted into a CPT procedure code. If by converting this information, the number of procedures exceeded 13, the additional procedure was dropped. Since there were so few cases that exceeded 13, it was not considered to be a problem.

Table 1 contains a list of the radiological and other special procedures with their assigned CPT codes.

TABLE 1: Radiological and Other Special Procedures

PROCEDURE	CPT CODE
Barium Study	74270
IVP	74400 (If 74415 was marked on the back of the form, then 74415 was used instead of 74400).
CT Scan	70470 (If 71250 was marked on the back of the form, then 71250 was used instead).
MR Scan	70550
Ultrasound	76700 (If a code fell within the range of 76500-76999 and was marked on the back of the form, then that code was used instead).
Nuclear Medicine	78801 (If a code fell within the range of 78000-79999 and was marked on the back of the form, then that code was used instead).
Angiographic	75501
Adaptive Appliance	99070
EEG	95819 (If a code fell within the range of 95819-95823 and was marked on the back of the form, then that code was used instead).
Pulmonary	94010
EMG	95860 (If a code was within the range of 95860-95869 and was marked on the back of the form, then that code was used).

COST METHODOLOGY

In order to accurately evaluate the various ambulatory classification systems, the development of an equitable per visit

cost was necessary. This presented a significant challenge in that it required a comprehensive individual cost for each patient encounter (visit) in the ACDB data file.

The study team developed four different methods to approximate a visit cost. The development of the various methodologies was necessary because military hospitals do not use a civilian type cost methodology that is capable of producing a "cost" or more precisely a "bill" for each individual visit. Military hospitals are funded from various funding sources. For example, military pay and allowances are paid from a general fund account and may be regarded as "sunk" costs in that they are paid to military health care providers regardless of the number of patients to whom they provide care. Civilian health care provider salaries and benefits are resourced from major command allocation of funds, balanced with authorized personnel ceilings. The medical treatment facility commanders, once given their allocations of personnel, have nominal authority to manage personnel and associated cost. Normal capital expenses, new buildings and equipment, are provided subject to availability of funds, from major commands or higher command levels and are not included in the hospitals's operating budget.

Utilities are considered installation operating expenses and, as such, is not included in the hospital's operating budget. However, it should be mentioned that such installation expenses are captured in the Medical Expense Performance Report System (MEPRS) at the medical facility level. This and other expense

data elements, as products of the MEPRS system will play a significant role in ambulatory care resourcing. Finally, it was not possible for the study team to develop cost methodologies associated with indirect health care cost (i.e., provider malpractice insurance, forms, and other such indirect costs). Nevertheless, as the military adapts to new ambulatory costing and resource allocation methodologies, all inclusive expense data is vital to insure fair and equitable medical treatment facility funding.

Definitions of Cost Formula Components

A description of the various components that make up the cost formulas follows:

ANCILLARY: For those laboratory procedures indicated by CPT procedure codes within the range of 80002 - 89399, a percentage of the CHAMPUS rate was used. The following steps were taken to calculate this percentage. A military average for laboratory was calculated (total number of visits in the sample, 516,006 multiplied by the average per visit MEPRS laboratory reimbursement of \$3.36). This total was divided by the actual number of laboratory procedures performed (152,982) to provide an average cost per procedure of \$11.33. The average for all CHAMPUS laboratory procedures was \$18.25. The percentage of military to CHAMPUS ($\$11.33/\18.25) was 62.1%. This percentage was

applied to laboratory procedures indicated on the back of the data collection form.

CHAMPUS: These rates are based on the CHAMPUS prevailing rate for each CPT procedure. The CHAMPUS prevailing rates (the amount of money paid) for a specific procedure is derived from a review of the total number of claims for a particular state. The claim(s) are paid at the 80th percentile as the prevailing rate for the procedure in that state. The CHAMPUS prevailing rates in this study were the averages of the regional rates at the time of the data collection. Additionally, the CHAMPUS prevailing rate consists of both a technical component, which accounts for 60% of the prevailing rate, and a professional component accounting for the remaining 40%. (CHAMPUS Fiscal Intermediary Pricing File Extract Report for Fiscal Year 1988, August 1988).

CLMEAN: An average procedure cost per clinic group was employed for calculating a military supply cost. This average was computed by taking the sum of all CHAMPUS procedure costs for a clinic grouping divided by the number of visits in that particular grouping.

FACCOMP: The facility component is obtained by using the

following formula: AVERAGE PROCEDURE COST PER MINUTE MULTIPLIED BY PRIMARY PROVIDER TIME. The average procedure cost (AVGPROC COST) is 60% (60% represents the technical component of the CHAMPUS fee) of the sum of the procedure costs for all visits within a clinic grouping divided by the sum of the providers' time for all visits within a clinic grouping.

LAB: The number of laboratory procedures ordered during a visit was indicated on the front of the data collection form. This number was then multiplied by a computed average cost. The average cost for laboratory was calculated by multiplying the total number of visits in the sample, 516,006 by the military (MEPRS) average reimbursement per visit of \$3.36. This total was divided by the actual number of procedures performed (152,982) in the sample to provide an average cost of \$11.33 (see Table 8).

LABOR: The labor cost component used in the formulas consisted of a combination of salary and benefits for military, and salary only for civilians. It is determined by minutes of contact time with patients. The military labor costs were derived from the Composite Standard Rates for Costing Personnel Services-Military. These composite

standard rates for each grade are published annually by Department of the Army, Director of Finance and Accounting, Security Assistance and Cost and Property Accounting Division, Indianapolis, Indiana. Since data were collected across two fiscal years, the appropriate rate for each of the study years was used to determine labor costs. The published annual cost (salary and benefits exclusive of medical incentives) for each military pay grade was divided by 2,080 (duty hours per year) to derive a basic hourly rate. This hourly rate was then divided by 60 to obtain a rate/minute scale required by this study. The Civilian Health Care Provider Composite Standard Cost Rates were derived from the General Schedule Salary Tables No. 70 (FY85), No. 71 (FY86), and No. 72 (FY87). These tables are published by the Office of Personnel Management, Assistant Director for Pay and Benefits, Washington, D.C. For purposes of the study, the median step level of five was used within each grade. The annual salary was then divided by 2,087 hours (number of civilian productive hours in a calendar year) to derive a basic hourly rate. The hourly rate was then divided by 60 to obtain a rate/per minute scale.

RX:

An average cost per prescription ordered was

calculated based on the available MEPRS data. The MEPRS cost is spreaded over all visits without taking into consideration whether a prescription was actually ordered for a particular visit. In order to use the more specific visit services which were contained in the ACDB, it was necessary to compute an average cost per prescription and multiply this by the number of prescriptions ordered for a particular visit. The computations for obtaining the average cost uses the MEPRS average rate per visit (\$5.43) multiplied by the total number of visits (516,006). The result was the total reimbursement (\$2,801,912.00). This total rate was divided by the actual number of prescriptions (264,070) filled to determine average cost per unit (\$10.61) (see Table 8).

X-RAY: The charge for this service was obtained by using 39% of the CHAMPUS rate for those procedures contained in the CPT code range of 70002-79999. Since x-ray procedures have such a wide range of costs (\$27.30 for a plain film to \$661.00 for a CT Scan), it was decided that a percentage rather than the flat military (MEPRS) rate would be more appropriate. The total reimbursement was calculated by multiplying the number of visits (516,006) in the sample by the average

reimbursement per visit (\$2.49) for a total reimbursement of (\$1,284.85.00). This was divided by the number of plain films (55,308) for an average military reimbursement of \$23.23 per plain film. This ratio (\$23,23/\$59.52) of military to CHAMPUS was 39%. This percentage was applied to all radiological procedures including high technology procedures like MRI, CT Scan, etc.

TABLE 2: Basis for Laboratory and Prescription Average Costs

	TOTAL VISITS	COST PER VISIT	TOTAL COST	N OF PROC	PER UNIT
LAB	516,006	\$3.36	\$1,733,780.00	152,982	\$11.33
RX	516,006	\$5.43	\$2,801,912.00	264,070	\$10.61

Other Special Cost Considerations

The inclusion of x-ray costs in the study formulas presented a special challenge to the study group as only the number and the general types of x-rays were included in the data collection instrument (i.e., plain films, CT scan). To capture the cost of this important aspect of medical care, a staff physician assigned a CPT x-ray procedure code to each clinic. The decision to assign a particular code to a clinic was based on the most common type of x-ray for that clinic.

Some of the CPT procedure codes used in the study had no corresponding CHAMPUS costs. In order to use these codes, the physician assigned to the team selected a related CPT code to substitute for costing purposes.

The Pain clinic presented another situation which required special treatment. Because of the specificity of the data collection form, duplication of documentation for injections sometimes occurred. To correct this double counting, an algorithm was written which grouped certain CPT procedures together and assigned a cost based on the more expensive procedure.

Summary of Cost Methodology

In summary, the ACES Study team developed various cost methodologies using a variety of sources (e.g., MEPRS, CHAMPUS) to calculate resource utilization for each military health care visit. These cost equations allowed the investigation of various cost concepts using the combined strength of the ACDB data and in some equations, the CHAMPUS prevailing rates. In addition, the MEPRS cost data with its fundamental limitations was used. The development of each equation was an effort to investigate the various cost combinations and variations in those costs with respect to clinic visits in a military health care setting. Because of the limitations of the military cost expense system, the ACES team chose to incorporate the CHAMPUS prevailing rates into a "proxy cost" for cost consideration.

A brief description of the four cost methodologies follows. The first formula uses primarily military costs, the second, civilian. The two remaining formulas only deal with partial costs. COST3 is military labor only and COST4 contains reimbursable costs in the current military system.

COST FORMULAS

A brief explanation of each costing methodology follows:

$$\text{COST1} = \text{FACCOMP} + \text{X-RAY} + \text{LAB} + \text{RX} + \text{LABOR}.$$

This equation is a combination of actual and computed military costs. This formula contains as complete a military visit cost as possible to compute with available data.

$$\text{COST2} = \text{CHAMPUS PROCEDURE RATE}$$

CHAMPUS procedure rate using a minimum rate based on time (100% of CHAMPUS rate for x-ray and laboratory procedures included). This cost formula uses only CHAMPUS rates for costs. The rationale for using only civilian costs (i.e. CHAMPUS) pertains to the aforementioned fact that the system being evaluated is a civilian reimbursement classification system. Also, the CHAMPUS procedure formula provides a cleaner cost model since it is not a mixture of military and civilian costs. However, one disadvantage of using CHAMPUS costs is that they are derived from charges not actual costs. This formula establishes a minimum value for each visit based on the CHAMPUS procedure costs for Office Medical Services. This costing methodology takes into account the fact that in 42% of ACDB visits no procedures were coded. In a civilian community, any visit would contain at least one of the types of services listed in the CPT classification of Office

Medical Services. The Office Medical Services codes allowed for coding of visits which were primarily office visits without a procedure listed elsewhere in CPT. If a visit contained no other procedures, then a basic office visit code was assigned based on the amount of time spent with a patient. The following is a breakdown of the time intervals used to determine each type of Office Medical Service code:

1 - 15 minutes used CPT-4 code 90000 Brief Service.
16 - 30 minutes used CPT-4 code 90015 Intermediate Service.
Over 30 minutes used CPT-4 code 90020 Comprehensive Service.

COST3 = *Labor only*.

This costing methodology looks only at the cost of provider time for a visit. The relationship of health care provider time and its corresponding cost are of vital concern to both military and civilian health care facilities. This formula provides an advantage over using time only because it accounts for the fact that a given quantity of time does not carry the same cost for all health care providers. That is, 30 minutes of a neurosurgeon's time costs considerably more than 30 minutes of a physical therapy technician's time. Unfortunately, the various bonuses given to the different physician specialties were not included in the formula.

$$\text{COST4} = (.055 \text{ multiplied by CLEMAN}) + \text{X-RAY} + \text{ANCILLARY} + \text{LAB} + \text{RX}$$

COST4 represents the sum of reimbursable costs as they currently exist in the Army Medical Department. It includes a computed military supply cost. The 5.5 percent of the CLEMAN represents this computed supply cost. This percentage was derived with the assistance of Herb Filmore, New York State Department of Public Health. Moreover, it should be noted that the 5.5 percent military supply cost compares favorably with the supply cost developed and utilized for reimbursement by the New York State Department of Health. Since it is based on an average procedure cost for a particular clinic grouping, some differentiation in supply cost occurs.

Correlation Among Cost Methodologies

There are a number of methods available to determine the relationship among cost methodologies. However, the most meaningful examines the amount of variance accounted for by each of the cost equations. The relationship among the cost methodologies is provided in Table 3. COST1 and COST3 are highly correlated (.8) in part because of the fact that COST1 includes COST3. COST1 and COST4 are highly correlated (.5) as there is overlap in that both include x-ray, prescription, and ancillary costs. The CHAMPUS (civilian) data is less highly correlated with the military based costs. COST3 and COST4 are not

correlated. There is no overlap and a link is not really expected between labor cost and supply cost since many procedures require no supplies (e.g., psychotherapy). It is important to note that while all the correlation's are statistically significant ($p < .05$), this is due primarily to the large sample (516,006).

TABLE 3: Relationship Among Cost Methodologies
(N = 516,006)
Correlation Coefficient

COST	1	2	3	4
1	1.000			
2	0.3959	1.000		
3	0.8024	0.3376	1.000	
4	0.5360	0.2310	0.1286	1.000

$p < .05$ in all cases.

RESULTS

The sample used in this evaluation consisted of 516,006 clinic visits randomly selected from the 3.1 million patient visits contained in the ACDB. These visits represent data collected during the first phase of the data collection period from January 1, 1986, through April 30, 1987. Prior to entering this data into the PAC/PAS grouper, a series of preliminary analyses were conducted to gain a greater understanding of the population under study. The first analysis indicated that of the 516,006 visits, 279,370 (54.15%) consisted of male patients and 236,548 (45.85%) were female patients. In terms of beneficiary status, the retired population (retired service members and their

family members who are eligible for care) represented slightly more of the sample 39.41% than the active duty population (38.09%). The remaining 22.50% of the visits were comprised of family members of active duty military. A complete analysis of all patients in the sample by beneficiary status and location is included in Table 4.

TABLE 4. Patient Visits: By Beneficiary Status and Location
(N = 516,006)

LOCATION	ACTIVE DUTY		ACTIVE DUTY FAMILY MEMBER		RETIRED		TOTAL NUMBER	TOTAL PERCENT
	#	%	#	%	#	%		
REDSTONE	9998	1.94	11508	2.23	21966	4.26	43472	8.42
CAMPBELL	45062	8.73	27716	5.37	24108	4.67	96886	18.77
POLK	3879	7.51	29315	5.68	18400	3.57	86494	16.76
BRAGG	20512	3.97	15079	2.92	14305	2.77	49886	9.67
JACKSON	63089	12.23	9941	1.93	41916	8.12	11955	22.27
BAMC	19140	3.71	22474	4.35	82699	16.02	124313	24.09
TOTAL	196579	38.09	116033	22.48	203394	39.41	516006	100.00

A second analysis of the visit data was conducted to provide information on the age and gender of the patient. Results of this analysis indicated that the majority of visits (52.24%) were by patients in the 19-34 year old age group. Additional information on the age of the patients by gender for all visits in the sample is contained in Table 5.

TABLE 5: Patient Visits: Gender By Age
(N = 516,006)

AGE	MALE NUMBER	MALE PERCENT	FEMALE NUMBER	FEMALE PERCENT	TOTAL NUMBER	TOTAL PERCENT
0-2	15119	2.93	13877	2.69	28996	5.62
3-17	33472	6.49	30199	5.85	63671	12.34
18-34	148245	28.73	121310	23.51	269553	52.24
35-44	28497	5.52	23522	4.56	52019	10.08
45-64	38147	7.39	36553	7.08	74700	14.48
65-74	14626	2.83	10150	1.97	24776	4.80
75+	1298	0.25	991	0.19	2289	0.44
TOTAL	279404	54.15	236602	45.85	516006	100.00

When an additional analysis of the data is conducted looking at individual patients rather than visits, the results are basically the same. This analysis counted the demographic information on the patient only one time regardless of the number of visits per patient. Thus, the 516,006 visits represented 231,632 patients. Of these patients, males exceeded females (56.12% to 43.87%). Consistent with previous findings, the age group 18-24 comprised the largest group of patients (51.98%). Further information on individual patient characteristics by gender and age is contained in Table 6.

TABLE 6: Individual Patient Characteristics: Gender By Age
(N = 231,634)

AGE	MALE NUMBER	MALE PERCENT	FEMALE NUMBER	FEMALE PERCENT	TOTAL NUMBER	TOTAL PERCENT
0-2	6,940	3.00	6,475	2.80	13,415	5.79
3-17	17,525	7.57	15,970	6.89	33,495	14.46
18-34	70,650	30.50	49,754	21.48	120,404	51.98
34-44	12,661	5.47	10,323	4.46	22,984	9.92
45-64	16,802	7.25	15,286	6.60	32,088	13.85
65-74	5,052	2.18	3,460	1.49	8,512	3.67
75+	373	0.16	361	0.16	734	0.32
TOTAL	130,003	56.12	101,629	43.87	231,632	100.00

The final demographic analysis consisted of converting the patient visits into individual patients and obtaining frequencies of the beneficiary status of patients by location. As was expected, the largest group of patients were seen at Brooke Army Medical Center (23.66%), Fort Sam Houston, Texas. However, Moncrief Army Community Hospital, Fort Jackson, South Carolina was a very close second (22.64%). Consistent with previous findings' retirees made up the largest group of patients (42.23%) followed by active duty (35.59%) and family members of active duty (22.27%). Additional information on individual patients by location and beneficiary status is located in Table 7.

**TABLE 7: Individual Patient Characteristics
Patient Location By Beneficiary Status
(N = 231,634)**

LOCATION	ACTIVE DUTY N	ACTIVE DUTY %	ACTIVE DUTY DEP N	ACTIVE DUTY DEP %	RETIRED N	RETIRED %	TOTAL N	TOTAL %
REDSTONE	3347	1.44	4880	1.93	10792	4.66	18619	8.04
CAMPBELL	17794	7.68	13173	5.69	11333	4.89	42300	18.26
POLK	12241	5.28	9840	4.25	8046	3.47	30127	13.01
BRAGG	12972	5.60	10367	4.48	10013	4.32	33352	14.40
JACKSON	27761	11.98	4376	1.89	20301	8.76	52438	22.64
BAMC	8120	3.51	9341	4.03	37337	16.12	54798	23.66
TOTAL	82235	35.50	51577	22.27	97822	42.23	231634	100.00

The first examination of the data consisted of looking at the number of visits that grouped and how they grouped into the PAC and PAS. Of the 516,006 visits in the sample, 514,413 (99.7%) were placed into one of the 24 PACs or one of the 42 PASs groups. The remaining 1,593 (0.3%) visits did not group due to one of three types of errors: errors in age, 604 (37.9%); errors in gender, 755 (47.4%); and inappropriate diagnoses, 234 (14.7%). The causes for most of these errors were: (1) putting the current date in place of birth date, (2) coding in the wrong gender on the data collection instrument (invalid match between gender and diagnosis), and (3) miscoding diagnoses on the data collection so that the entry was not a valid ICD-9-CM code. The study team attempted to correct these coding errors by (1) reviewing the patient demographic data contained in the patient registration

form and (2) utilizing demographic data contained in the SIDPERS and DEERS data files. Of the 514,413 visits that were placed in either a PAS or a PAC, 506,557 (98.5%) were placed into one of the 24 PACS and 7,856 (1.5%) were placed into 29 of the 42 PAS groups that were utilized. There were 13 PAS groups that were not utilized. Although all the visits grouped, the grouping was not accomplished without some difficulties. For example, the logic that places the procedures into PAC 21 (Audiological Testing) requires that the procedures be performed by an audiologist. In the Army, however, an audiology procedure might be performed by a technician rather than an audiologist thus causing the visit to be grouped into another PAC. Other misgroupings were a result of differences in clinic organization. The Army has audiology clinics, but the PAC Grouper does not recognize this entity and treats this as a part of the ENT clinic. Despite these differences, the PAC/PAS system appeared to be grouping appropriately. Table 8 contains a frequency distribution of visits by PAC.

TABLE 8. Frequency Distribution of Visits by PAC
(N = 506,557)

PAC #	PAC TITLE	N	PERCENT
8	MGMT OF CLASS II PROB, ADULT > 17	171016	33.8
16	MGMT OF CLASS III PROBLEM	61503	12.1
4	MGMT OF CLASS I PROB, CHILD 0-17	54263	10.7
23	SPEECH & REHAB THERAPY	31734	6.3
20	MGMT OF CLASS V PROBLEM	27752	5.5
14	MGMT OF REPRODUCTIVE PROBLEM	26862	5.3
22	OPHTHALMOLOGICAL SERVICES	25066	4.9
6	ANNUAL EXAM, AUDLT > 17	23056	4.6
11	PRENATAL REVISITS, AGE 19-34	18726	3.7
7	DIAG INV OF CLASS II PROB, AUDLT >17	15796	3.1
12	ANNUAL GYNECOLOGICAL EXAM	8381	1.6
15	DIAG INV OF CLASS III PROBLEM	7379	1.5
1	WELL CARE EXAM, CHILD 0-2	6641	1.3
5	MEDICATION ADMINISTRATION	4890	1.0
3	DIAG INV OF CLASS I PROB, CHILD 0-17	4746	0.9
2	ANNUAL WELL CARE EXAM, CHILD 3-17	4700	0.9
19	MGMT OF CLASS IV PROBLEM	3939	0.8
21	AUDIOLOGICAL TESTING	2694	0.5
10	PRENATAL REVISITS, OVER 34 OR UNDER 19	2567	0.5
24	DIAG INV W/NUC OR CAT IMAGING	1529	0.3
13	DIAG INV OF REPRODUCTIVE PROBLEM	1346	0.3
9	INITIAL PRENATAL EVALUATION	1036	0.2
17	DIAG INV OF CLASS IV PROBLEM	489	0.1
18	MGMT OF CHEM & RADIOTHERAPY	446	0.1
TOTAL		506,557	100.0

As noted in Table 8, although all the PACs contained visits, the number of visits varied greatly between PACs. For example, PAC 8, "Management of Class II Problems", Adult Age over 17,

accounted for 171,016 visits (33.8%) while PAC 18, "Management of Chemotherapy and Radiotherapy" contained 446 visits (0.1%).

There were no empty PACs. Moreover, given the clinical characteristics of the PAC groups, the number of visits in each group seem appropriate.

In order to determine the effectiveness of the PAS, surgical procedures contained in Sample 1 were classified according to the PAS algorithm. The result of this classification is contained in Table 9.

TABLE 9. Frequency Distribution of Visits by PAS
(N = 7,856)

PAS GROUP NUMBER	PAS TITLE	NUMBER VISITS	PERCENTAGE
64	SKIN DX - RX	5246	66.8
47	CYSTOSCOPE	608	7.7
43	RECTAL DX	384	4.9
55	GYN DX	312	4.0
58	BONE RX	238	3.0
42	LOWER GI DX - RX	189	2.4
41	UPPER GI DX - RX	142	1.8
65	SKIN REPAIR	142	1.8
62	BREAST DX - RX	76	1.0
34	RHINO - SEP PLASTY	70	0.9
52	MALE GENITAL RX	50	0.6
36	NASAL - TRACH ENDO	49	0.6
48	UROLOGICAL REPAIR	47	0.6
40	VASCULAR DX - RX	40	0.6
60	BONE REPAIR	40	0.5
33	NASAL - PHAR RX	36	0.5
29	EYE TECH RX	29	0.4

31	EAR REPAIR	28	0.4
32	EAR RX	28	0.4
25	NERVE REPAIR	25	0.3
50	MALE GENITAL DX	25	0.3
61	SOFT TISSUE RX	16	0.2
26	EYE RX	15	0.2
28	LENS	5	0.1
66	UROLOGICAL DX	3	0.0
37	THORACIC DX - RX	2	0.0
27	EYE REPAIR	1	0.0
57	SOFT TISSUE REP	1	0.0
30	EYE MUSCLE REPAIR	1	0.0
35	TONSIL - ADENOID RX	0	0.0
38	VASCULAR DX II	0	0.0
39	VASCULAR REPAIR	0	0.0
44	HEPATIC DX - RX	0	0.0
45	HEPATIC ENDO	0	0.0
46	HERNIA REPAIR	0	0.0
49	LITHORIPSY	0	0.0
51	G U REPAIR	0	0.0
53	LAPAROSCOPY	0	0.0
54	OVIDUCT DX - RX	0	0.0
56	D & C	0	0.0
59	ATHOROSCOPY	0	0.0
63	BREAST REPAIR	0	0.0
TOTAL		7856	100.0

As indicated in Table 9, there were 14 (33.3%) empty PAS groups with another 18 (42.9%) containing less than 50 visits each. The largest PAS, #64 contained 5,246 visits which is nearly two-thirds of the total visits (66.7%). A complete

distribution of the range of visits by PAS is presented in Table 10.

TABLE 10. Range of Visits by PAS

NUMBER OF VISITS	NUMBER OF PAS GROUPS	PERCENT
0	14	33.3
1-50	18	42.9
51-100	2	4.8
101-1000	7	16.7
1001-5000	0	0.0
5001-10000	1	2.4
TOTAL	42	100.00

In order to evaluate the impact of the PAS grouper on the PAC, all the visits that were grouped into PASSs were originally grouped into one of the 24 PACs. PAC 8, "Management of Class II Problem", Age over 17, lost 4,605 visits to the PAS grouper, this was 58.5% of the total visits grouped by the PAS. There were three PACs that did not contribute any visits to the PAS. Table 11 presents a complete listing of the 24 PACs and the number of visits that were transferred to the PAS.

TABLE 11: Number and Percent of Visits Re-Assigned to a PAS by PAC of Origin (N = 7856)

Item Number	PAC Group Number	Product of Ambulatory Care (PAC) Title or Description	Number of Visits	Percent of Visits	Cumulative Percent
1	8	Management of a Class II Problem, Adult Age Over 17	4605	58.62	58.62
2	16	Management of a Class III Problem	1077	13.71	72.33
3	14	Management of a reproductive Problem	546	6.95	79.28
4	4	Management of a Class I Problem, Child Age 0-17	543	6.91	86.19
5	19	Management of Class IV Problems	307	3.91	90.10
6	7	Diagnostic Investigation of a Class II Problem, Adult Age Over 17	248	3.16	93.26
7	15	Diagnostic Investigation of a Class II Problem	148	1.88	95.14
8	22	Ophthalmological Services	135	1.72	96.86
9	6	Annual Examination, Adult Over Age 17	68	.84	97.27
10	3	Diagnostic Investigation of a Class I Problem, Child Age 0-17	42	.54	98.27
11	13	Diagnostic Investigation of Reproductive Problem	33	.42	98.69
12	17	Diagnostic Investigation of Class IV Problem	22	.28	98.97
13	24	Diagnostic Investigation with Nuclear or Computerized Axial Tomography Imaging	21	.27	99.24
14	2	Annual Well Care Examination, Child Age 3-17	14	.18	99.42
15	18	Management of Chemotherapy and Radiotherapy Treatments	14	.18	99.60
16	12	Annual Gynecological examination	10	.13	99.83
17	11	Prenatal Revisits for Patients Age 19-34	8	.01	99.83
18	5	Medication Administration	5	.06	99.89
19	1	Well Care Examination, Child Age 0-2	4	.05	99.94
20	9	Initial Prenatal Evaluation	3	.03	99.97
21	20	Management of Class V Problems	3	.03	100.00
22	10	Prenatal Revisits for Patients Over Age 34 and Under Age 19	0	0	100.00
23	21	Audiological Testing	0	0	100.00
24	23	Speech and Rehabilitation Therapy	0	0	100.00
TOTAL			7856	100.00	100.00

In order to examine the statistical effectiveness of the PAS grouper a series of four analysis of variance (ANOVAs) were conducted. The four analyses were: (1) The original 24 PACs using all visits (no PAS visits removed). (2) The original 24 PACs using all visits (PAS visits removed). (3) The PACs and PAS combined as a total ambulatory classification system. (4) The PAS as an ambulatory surgery classification system.

These analyses will allow an examination of (1) how the PAS visits initially affected the PAC grouper (comparison of analysis 1 and 2), (2) if the PAS increase the efficiency of the PAC group (comparison of 1 and 2 with 3), and how well the PAS grouper performs as an ambulatory surgery classification system.

Table 12 contains the results of the ANOVA on the PAC with the PAS and the PAC without the PAS utilizing the four cost formula as the dependent measure.

TABLE 12: Comparison of PAC With and Without PAS Visits
(N = 514,413 & 7,856)

COST FORMULA NUMBER	PAC WITH PAS VISITS (R-SQUARE)	PAC WITHOUT PAS VISITS (R-SQUARE)
1 Complete Military Cost	0.1430	0.1810
2 CHAMPUS Cost	0.0728	0.0750
3 Labor Cost Only	0.2976	0.2972
4 Reimbursable Military Supply Cost	0.1350	0.1309

As noted in Table 12,37 in three of the four cost formulas

the PAC without the PAS visit has a higher R-Square value. However, only cost formula one contains any measurable difference (.380). In summary, there is no difference in the amount of variance explained when the PAS visits are included or removed.

The next evaluation will compare the results of the PAC and PAS grouper combined with the previous results contained in Table 13. In order to conduct the most appropriate analyses, it was necessary to delete from consideration those groups containing less than 30 visits. This reduced the number of PAS groups from the original 28 non-empty groups to 16 groups with a sample size of 30 or more, 12 groups had an sample size of 29 or less.

TABLE 13. Comparison of PAC without PAS Visits also PAC and PAS Combined Visits

COST FORMULA NUMBER	PAC WITHOUT PAS VISITS R-SQUARE)	PAC & PAS COMBINED (R-SQUARE)
1 Complete Military Cost	0.1810	0.2194
2 CHAMPUS Cost	0.0750	0.0776
3 Labor Cost Only	0.2976	0.2943
4 Reimbursable Military Supply Cost	0.1309	0.1312

As was noted in the previous comparison in Table 12, the only difference of any magnitude was obtained using Cost1 and this resulted in only a slight (.384) difference. Thus, for the Army data there is an increase of 7.64% between the PAC with PAS

visits integrated and the PAC and PAS groupers operating in conjunction with one another.

The final analysis was designed to determine the amount of variance explained by the PAS acting independently and only on surgical visits. The results of this analysis is contained in Table 14.

TABLE 14: R-Square Values for the PAS Grouper

DESCRIPTION OF COST FORMULAS	PAS R-SQUARE
1 Complete Military Cost	0.2670
2 CHAMPUS Cost	0.1169
3 Labor Cost Only	0.1053
4 Reimbursable Military Supply Cost	0.1150

From the results of these analyses, the PAS group performs best (highest amount of variance accounted for) when using cost formula 1. The variance accounted for is slightly more than one-fourth. Overall the PAS either by itself or in concert with the PAC does provide some improvement in the amount of variance explained.

DISCUSSION

While this report is limited to the evaluation of the PAC and PAS classification systems using the Army Medical Department Data, a number of interesting and critical findings have been obtained from the results. First, attention should be drawn to the fact that at the present time these are the only two classification systems that are operational from a reimbursement perspective. Second, in terms of the development of the systems, the samples were drawn primarily from large outpatient facilities quite similar to the military system, where few free standing outpatient clinics exist. Third, it cannot be overemphasized that "if" the purpose of an ambulatory classification system for the military is the allocation of resources, the effectiveness of a classification system is directly related to the methodology used to attach a "cost" to each visit. (For an in depth discussion of the development of the costing methodology used in this study see Guillen, et al., 1992). Fourth, and most importantly, the PAC/PAS classification system does group all military visits from a clinical perspective. Fifth, a high probability exists that the PAC/PAS system does group all military visits from a clinical perspective. Finally, PAC/PAS system can be modified to increase not only the clinical meaningfulness of the system but its performance as a resource allocator as well.

CONCLUSIONS AND RECOMMENDATIONS

The results of this study provided a greater understanding of the PAC/PAS as an ambulatory classification system for the Army Medical Department. At this time it appears if the Department of Defense is to comply with the National Defense Authorization Act for FY87 (s.2638), 14 November 1986, Section 1101, which directed the Secretary of Defense to establish by regulation the use of outpatient DRGs as the primary criteria for allocation of resources for DOD Medical Treatment Facilities (MTFs) on 1 October 1993, much work needs to be accomplished. More specifically:

1. The continued development of a cost methodology directly related to accounting for as many factors related to the providing of health care as possible.
2. A continued evaluation of the leading ambulatory care classification systems in terms of military applicability.
3. Since all the current ambulatory classification systems focus on physician services and utilize CPT as the primary procedural coding system it would be prudent for the military to initiate the development of a coding system that would integrate CPT as well as military unique codes.

APPENDIX A

AMBULATORY CARE DATA BASE (ACDB) Extended Procedure Codes with conversions to CPT-4

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
00099	01800	Anesthesia (Intravenous/Local Regional)
02000	99155	Health Ed/Counsel, Health Promotion
02001	99155	Health Ed/Counsel, Hearing Conservation
02002	99155	Health Ed/Counsel, OH Program Orientation
02003	99155	Health Ed/Counsel, Radiation Protection
02004	99155	Health Ed/Counsel, Respiratory Protection
02005	99155	Health Ed/Counsel, Supervisor Orientation
02006	99155	Health Ed/Counsel, Toxic Hazard
02007	99155	Health Ed/Counsel, Vision Protection
02008	92551	Hearing Conservation, Reference Audiogram
02009	92551	Hearing Conservation, 90-Day Audiogram
02010	92551	Hearing Conservation, Follow-up 15 Hours
02011	92551	Hearing conservation, Follow-up 40 Hours
02012	92551	Hearing Conservation, Non-Job Related Audiogram
02013	92551	Hearing Conservation, Termination Audiogram
02014	90030	Hearing Conservation, Otoscopic Check
02015	92551	Hearing Conservation, Periodic Audiogram
02016	90010	Radiation Protection Program
02017	90010	Respiratory Protection Program
02018	90010	Injury, Medical Treatment
02019	90000	Injury, First Aid
02069	90030	Spectacle Procedure, New Order
02070	90030	Spectacle Procedure, Reorder
02071	92370	Spectacle Procedure, Repair/Adjustment/Dispensing
02072	92390	Type Spectacles Ordered, Aircrew
02073	92390	Type Spectacles Ordered, Safety
02074	92390	Type Spectacles Ordered, GM Inserts
02075	92390	Type Spectacles ordered, Tinted Lenses
02078	92391	Type Contact Lenses, Soft Lenses
02079	92391	Type Contact Lenses, EW
02080	92391	Type Contact Lenses, Hard Lenses
02081	92391	Type Contact Lenses, Gas Perm
02082	92391	Type Contact Lenses, Toric
02083	92391	Type Contact Lenses, Other
02105	90887	Collateral Contact
02400	90841	Therapy/Counseling, Individual, Social Work
02401	90847	Therapy, Marital/Couple, Social Work
02402	90847	Therapy, Family, Social Work
02403	90853	Therapy/Counseling, Group, Social Work
02404	90801	Interview, Evaluation
02407	90150	Visit, Home
02409	90899	Other I, SW
02410	90899	Other II, SW
02411	90899	Other III, SW
02420	90887	Collateral, Family Member (SW)
02421	90887	Collateral, Physician (SW)
02422	90887	Collateral, Nursing (SW)
02423	90887	Collateral, PAD (SW)
02424	90887	Collateral, VA (SW)
02425	90887	Collateral, JAG (SW)
02426	90887	Collateral, Civilian Agency (SW)
02427	90887	Collateral, Other Mil Med Facil (SW)
02428	90887	Collateral, ADAPCP (SW)

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
02429	90887	Collateral, School (SW)
02430	90887	Collateral, Unit (SW)
02431	90887	Collateral, Court Appearance (SW)
02432	90887	Collateral, Other I (SW)
02433	90887	Collateral, Other II (SW)
02434	90887	Collateral, Other III (SW)
02435	90899	Investigative Process-FAP
02436	90847	Intervention w/One Family Member Of Identified Patient
02437	90847	Intervention w/Two Family Members of Identified PNT
02438	90847	Intervention w/Three Family Members of Identified PNT
02439	90847	Intervention w/Four Family Members of Identified PNT
02440	90887	Collateral, ACS (SW)
02441	90887	Collateral, Law Enforcement (SW)
02442	90887	Collateral, Child Care Facility (SW)
02500	90841	Advice/Health Instruction
02502	90801	Assessment, Behavioral
02505	90841	Crisis Intervention
02506	90889	Diagnostic Formulation
02507	90889	Eval, Report Composite
02508	99199	Health Promotion
02509	90801	Interview, Psychology
02510	90887	Coordination, Medical
02511	90605	Consultation, Patient
02512	90830	Testing, Administration
02513	90830	Testing, Scoring
02514	90830	Testing, Interpretation
02515	90841	Therapy, Individual, Psychology
02516	90847	Therapy, Couple/Family, Psychology
02517	90853	Therapy, Group, Psychology
02519	90830	Exam Eval, ARMA
02520	90841	Exam Eval, Behavioral Medicine
02521	99080	Exam Eval, Clearance Admin
02522	99080	Exam Eval, Clearance Entry
02523	90801	Exam Eval, Clearance PRP
02524	90801	Exam Eval, Clearance Security
02526	90889	Disability Determination
02527	90825	Eval, Disability Rehabilitation
02528	90889	Eval, Educational
02529	90847	Eval, Family/Marital
02530	90889	Eval, Forensic
02531	90825	Eval, Functional Symptoms
02532	90801	History
02533	90889	Eval, Mental Status
02534	90841	Eval, Pre/Post Surgical
02536	90630	Treatment Recommendation/Outcome
02537	90600	Triage, Psychology
03000	90000	Screening Nutrition Assessment
03001	90000	Anthropometric Measurements
03002	90020	Comprehensive Nutrition Assessment
03003	90000	Skin Fold Caliper (AWCP)
03004	90050	Reassessment, Nutrition Status
03006	90040	Nutrition Follow-Up Evaluation
03009	90020	Nutrition Evaluation, Other
03010	90292	Discharge Planning
03011	90600	Nutrition History Consultation
03012	90010	Nonstandard Diet Calculation
03014	90000	Nutrient Intake Analysis-Limited
03016	99156	Patient Related Team Conference
03019	90699	Nutrition Procedure, Other
03020	99078	NUTR Care Ed, Nutrition Thru Life Span

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
03021	99156	NUTR Care Ed, MOD-Consistency
03022	99078	NUTR Care Ed, MOD-Overweight
03023	99078	NUTR Care Ed, MOD-Diabetes/Reactive HYP
03024	99156	NUTR Care Ed, MOD-Disease of GI Tract
03025	99078	NUTR Care Ed, MOD-Hyperlipidemia/Hyperlipoproteinemia
03026	99156	NUTR Care Ed, MOD-Sodium
03027	99156	NUTR Care Ed, MOD-Protein
03028	99156	NUTR Care Ed, MOD-Renal
03029	99156	NUTR Care Ed, MOD-Diagnostic Procedures
03030	99156	NUTR Care Ed, MOD-PEDS/Adolescent Diseases
03031	99156	NUTR Care Ed, MOD-Vegetarianism
03032	99078	NUTR Care Ed, MOD-Physiological Stress
03033	99156	NUTR Care Ed, MOD-Underweight
03034	99078	NUTR Care Ed, MOD-Athletic Training
03035	99156	NUTR Care Ed, MOD-Other Mineral
03036	99156	NUTR Care Ed, MOD-Allergy
03037	99078	NUTR Care Ed, MOD-Overweight (AWCP)
03038	90215	Eval, Parenteral/Enteral Nutrition
03039	99156	NUTR Care Ed, Other
03040	99078	NUTR Care Ed, Fitness/Wellness
03049	99156	Counseling, Nutrition (CHN)
04000	97700	Eval, Self ADL
04001	97700	Eval, Self Care
04002	97700	Eval, Home/Work/School
04003	97700	Eval, Play/Leisure Ability
04004	95882	Eval, Social/Comm Skills
04005	95882	Eval, Psychological Skills
04006	95882	Eval, Cognitive Function
04011	95851	Eval, Range of Motion, Neuromuscular Status
04012	97720	Eval, Dexterity
04013	93890	Eval, Vascular Status
04014	97720	Eval, Strength
04015	97720	Eval, Coordination, Neuromuscular
04016	97720	Eval, Endurance, Neuromuscular
04017	90030	Eval, Sensation, Neuromuscular
04018	97720	Eval, Tone, Movement & Control
04019	97720	Eval, Integration of Reflexes
04020	97720	Eval, Sensory Motor Development/Reflexes
04021	97720	Eval, Musculoskeletal Screening
04022	95831	MSE, Cervical
04023	95831	MSE, Thoracic
04024	95831	MSE, LS
04025	95831	MSE, Shoulder
04026	95831	MSE, Elbow
04027	95832	MSE, Wrist/Hand
04028	95831	MSE, Hip
04029	95831	MSE, Knee
04030	95831	MSE, Ankle
04031	95831	MSE, Foot
04032	95831	MSE, Prox UE
04033	95832	MSE, Distal UE
04034	95831	MSE, Prox LE
04035	95831	MSE, Distal LE
04050	97799	Eval, Other, OT
04051	95882	Eval, Perceptual Status
04052	90774	Eval, Developmental Status
04053	97700	Prosthetic Checkout
04061	97540	Self Care, ADL/OCC PERF
04062	97540	Pre-Voc Assessment Training, ADL/OCC PERF
04063	97540	Home/Work/School Skill, ADL/OCC PERF

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
04064	97540	Play/Leisure Ability, ADL/OCC PERF
04071	97540	Awareness Of Self, SOC Commo Skills
04072	97540	Coping Behavior/Adaptation, SOC Commo Skills
04073	97540	Listening Skills, SOC Commo Skills
04074	97540	Resumption of Roles, SOC Commo Skills
04075	97540	Self Control, SOC Commo Skills
04076	97540	Self Esteem, SOC Commo Skills
04077	97540	Self Expression, SOC Commo Skills
04078	97540	Self Identity, SOC Commo Skills
04079	97540	Sensitivity To Others
04081	97540	Orientation, COG Func
04082	97540	Sequencing, COG Func
04083	97540	Comprehension, COG Func
04084	97540	Conceptualization, COG Func
04085	97540	Visual Motor Perception Training, COG Func
04086	97540	Problem Solving Ability, COG Func
04087	97540	Visual/Auditory Memory, COG Func
04091	97530	Dexterity, Phys Func
04092	97530	Gross/Fine Motor Coordination, Phys Func
04093	90040	Edema Control, Phys Func
04094	97530	Range of Motion, Phys Func
04095	97530	Strength, Phys Func
04096	97530	Endurance, Phys Func
04097	97112	Sensation, Phys Func
04098	97112	Integrate Approp Reflexes, Phys Func
04099	97112	Develop Normal Tone, Movement, Control, Phys Func
04100	97114	Promote Adaptive Responses, Phys Func
04101	97112	Joint Protection Techniques, Phys Func
04102	97500	Orthotic Fabrication/Training, Phys Func
04103	97520	Prosthetic Training, Phys Func
04104	97112	Pain Reduction, Phys Func
04105	97112	Sensorimotor Development, Phys Func
04121	97540	Work Simplification/Energy Conservation
04122	97530	Infant Stimulation
04123	97540	Burn Protocol
04125	99078	Stress Management
04126	97540	Therapy, Work
04127	90040	Wound Management
04128	99078	Therapy, Group, (OT)
04129	97530	Physical Training/Reconditioning
04130	97799	Other Procedure (OT)
04131	99155	Ed/Consult, SIG Other
04132	90040	Re-evaluation (OT)
04133	99155	Oral-Motor Facilitation
04135	99155	CO-Therapy Teaching, SIG Other (PEDS Only)
04136	99155	Compensatory & Crg Work Study Skills
04138	99155	Cardiac Risk Factor Instructions
06000	90010	Eval, Gen Burns
06001	90000	Eval, Sports Med
06002	90050	Eval, Amputee
06003	90040	Eval, Hand
06004	90010	Scoliosis Clinic/Screening
06005	97700	Gait/Running Analysis
06006	97700	Eval, Assistive Device
06011	97010	ICE
06013	97118	Medcolator
06014	97128	Medcosonolator
06015	97012	Traction
06017	97014	Tens
06018	97018	Paraffin Bath

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
06019	97022	Whirlpool
06021	97124	Massage
06022	97126	Contrast Bath
06023	97110	Therapeutic Exercise
06024	97112	Neuromuscular Re-education
06025	97114	Functional Activities Training
06026	97116	Gait Training
06027	97260	Therapy, Manual
06028	97016	Jobst Pump
06029	97110	Tilt Table
06030	90060	Burn Care
06031	97139	Fluidtherapy
06032	90050	Rehabilitation, Cardiac
06033	97500	Splint Fabrication
06034	99155	Patient Education (PT)
06035	97240	Therapy, Pool
06037	97110	Pre Op Excercise Trng, Mastectomy
06038	97110	Pre Op Excercise Trng, Chest
06039	97110	Pre Op Excercise Trng, Knee
06040	97110	Pre Op Excercise Trng, Hip
06041	97110	Pre Op Excercise Trng, Foot and Ankle
06042	97110	Pre Op Excercise Trng, Shoulder
06043	97110	Pre Op Excercise Trng, Other
06044	97110	Pre and Post Partum Exercise Trng.
06045	97118	Facilitation/Inhibition techs
06046	94667	Postural Drainage/Chest
06047	97139	Other Procedure (PT)
06048	97012	Traction and Hot pack (PT)
06049	97014	Tens and Hot Pack (PT)
06050	97128	Ice and Ultrasound (PT)
06051	97110	Ice and Exercise (PT)
06052	99078	Back Class (PT)
06054	99078	Ankle Class (PT)
06057	99078	Diabetic Class (PT)
06058	97128	Hot Pack and Ultrasound (PT)
06059	97118	Medcolator and Ice (PT)
06060	97118	Medcolator and Hot pack (PT)
06061	97010	Ice and Elevation (PT)
06062	97014	Tens and Ice (PT)
06063	97530	Post Op Knee Rehab (PT)
06064	97530	Post Op Mastectomy Rehab (PT)
06065	97530	Post Op General Rehab (PT)
06066	97118	Ultrasound, Ice and Exercise (PT)
06067	97128	Ultrasound, Hot Pack & Exercise (PT)
06068	97128	Ultrasnd, Hot Pack & Inter Cerv Trac (PT)
06070	97016	Jobst, Ice & Elevation (PT)
06071	97128	Ice & Medcosonolator (PT)
06072	97124	Ice & Manual Therapy (PT)
06073	97128	Ice, Ultrasound & Manual Therapy (PT)
06074	97128	Ice, Medcosonolator & Manual Therapy (PT)
06075	97124	Hot Pack & Manual Therapy (PT)
06076	97128	Hot Pack, Medcosonolator & Man Ther (PT)
06077	97128	Hot Pack & Medcosonolator (PT)
06078	97022	Whirl Pool, Burn/Wound Care (PT)
06080	97520	Exercise & Gait/Prosthetic Trng (PT)
06081	97118	High Voltage Stimulation (PT)
06082	97118	Electrical Stimulation & Exercise (PT)
07000	87210	Exam Microscopic (Arthropod)
07001	83052	Screening, Sickle Cell
07002	86171	Screening, Rubella

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
07003	90753	Exam, Physical, (CHN)
07004	90774	Developmental Services
07005	90115	Evaluation, Home
07006	90000	Assessment, Health Needs
07007	90060	Wic Program
07008	90060	Complex Patient Coordination
07009	90160	Ostomy Care
07010	99155	Counseling, Breast Feeding
07011	99078	Counseling, Health Fitness
07012	97540	Counseling, ADL
07013	99155	Counseling, Post Partum
07014	99078	Counseling, Prenatal
07015	99155	Counseling, Newborn
07016	99155	Counseling, Premature Infant
07017	99155	Counseling, Family Planning
07018	99155	Counseling, Disease Specific
07019	99078	Counseling, Infectious Disease Prevention
07020	99155	Counseling, Foreign Travel
07021	90752	Pre-School Services
07030	99078	Clinic, Smoking
07035	99078	Clinic, STD
07040	99078	Clinic, Well Child
07050	99078	Clinic, Well Baby
07055	99078	Clinic, TB
07060	90760	INH Monitoring
07070	99155	Interview, STD Contact
07091	99155	interview, Comm Dis Case
07092	99155	Interview, Comm Dis Contact
07093	99155	Interview, EPI Other
10004	10000	I & D, Cyst
10062	26011	I & D, Felon
10165	10660	Blister Care, Puncture, Debride, Disinfect, & Obervation
10181	10180	I & D, Wound
11005	11040	Debridement, Ulcer/Abscess
11044	11042	Debridement, Skin, Subcutaneous Tissue
11102	11100	Biopsy, Punch
11103	11000	Biopsy, Shave
11104	11100	Biopsy, Incisional
11205	11200	Excision, Lipoma
11407	11406	Scar Excision/Revision
11410	11401	Excision, Cyst
11411	11401	Excision, Lesion, Benign, Trunk/Extremity < 1.0 CM
11412	11403	Excision, Lesion, Benign, Trunk/Extremity > 2.0 CM
11429	11406	Excision, Neoplasm, Large
11431	11421	Excision, Lesion, Scalp, Neck, Hands < 1.0 CM
11432	11423	Excision, Lesion, Scalp, Neck, Hands > 2.0 CM
11447	11441	Excision, Lesion, Face, Lids, Ears, Nose < 1.0 CM
11448	11443	Excision, Lesion, Face, Lids, Ears, Nose > 2.0 CM
11449	11443	Excision, Lesion, Benign, NOS (ENT)
11611	11601	Excision, Lesion, Malignant, Trunk/Extremity < 1.0 CM
11612	11603	Excision, Lesion, Malignant, Trunk/Extremity > 2.0 CM
11631	11621	Excision, Lesion, Malignant, Scalp, Neck, Hands < 1.0C
11632	11623	Excision, Lesion, Malignant, Scalp, Neck, Hands > 2.0C
11651	11641	Excision, Lesion, Mal, Face, Lids, Ears, Nose < 1.0 CM
11751	11740	Biopsy, Nail
11752	11750	Excision, Nail, Medial Border
11753	11750	Excision, Nail, Lateral Border
11902	11900	Injec, Intralesional, Corticosteroid
11903	11900	Injec, Intralesional, Antimetabolite

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
11998	77261	Grenz/Sup X-ray
12003	12001	Wound Repair & Simple DRSG
12008	12002	Wound Care, Local
12009	12011	Suture, Ear
12010	12011	Repair, Laceration, Eyelid
13149	13150	Repair, Laceration, Full Thickness
13164	13160	Secondary Closure, (DPC), Surgical Wound
13165	12020	Secondary Closure, Nonsurgical Wound
15040	15100	Graft, Skin
15777	15240	Autografts (Not Hair)
15786	15782	Dermabrasion, Tattoo
15792	15791	Acid Treatment
15793	15791	Chemical Peel
15827	15839	Scalp Reduction
15830	15240	Restoration, Eyebrow
17111	17110	Destruction Of Warts W/Canthrene
17112	17110	Destruction Of Warts W/Podophyllum
17203	11641	Electrosurgery, Basal Cell Excision
17210	17200	Electrocoagulation/Destruction
17308	17307	Chemosurgery, Stage V
17381	11401	Laser Therapy, Excision
17382	17100	Laser Therapy, Vascular
17383	17110	Laser Therapy, Verruca
17385	17000	Laser Therapy, Other
19121	19120	Excision, Cyst, Breast, Fibroadenoma (Other Benign)
19122	19120	Excision, Cyst, Breast, Benign
19369	19371	Mammary Capsulotomy (Closed)
20221	20225	Biopsy, Leg Thru Tibia & Fibula
20551	90782	Injec, Soft Tissue
20555	97118	Trigger Point Stimulation
20601	20610	Aspiration, Joint (Arthrocentesis)
20602	20610	Injec, Intra-Articular
20664	20665	Halo Adjustment
20685	20650	Other Orthosis Application/Adjustment
27195	97260	Manipulation, Pelvis
27197	97260	Manipulation, Spine
27199	97260	Manipulation, Not Spine/Pelvis
28301	28119	Retrocalcaneal Exostosectomy
28303	28300	Osteotomy
28450	28455	TTT, FX, Tarsal, Closed
28517	28515	TTT, FX, Toe
28650	27762	Fracture Manipulation and Immobilization, NOS
29001	29799	Cast Application
29100	29799	Splint Application
29456	29450	Cast Application, Post Amputation
29501	99070	Post Op Shoe
29502	29515	Posterior Splint, Foot & Ankle
29503	29515	Slipper Cast
29790	90040	Plaster Foot Impression
29800	29425	Cast, Removal/Repair, Reapplication
29801	29425	Cast, Primary Application
29802	29425	Cast, Secondary or Tertiary Application
30010	89100	Levin Tube
30121	30120	Electrosurgery, Rhinophyma Malignant
30940	92511	Antroscopy, Nasal
31501	31500	Endotracheal Intubation, Nasal
31545	31540	Laryngoscopy, Direct, Operative W/Laser
31654	31659	Bronchoscopy Diag W/Bronchoalveolar Lavage
31658	31659	Bronchoscopy Diag W/Needle Asp, Carinal/Paratracheal NOD

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
32001	32000	Thoracentesis, Therapeutic W/Drainage
36432	36430	Transfusion, RBC
36433	36430	Transfusion, Immunoglobulin
36434	36430	Transfusion, Platelets
36435	36430	Transfusion, Factor Replacement
36436	36440	Transfusion, Blood, Pediatrics
36481	36480	Catheter Placement, Subclavian
36801	36800	Vascular Access placement, Chronic Pediatric Hemodialysi
42822	42821	Tonsillectomy & Adenoidectomy (T&A)
42832	42831	Adenoidectomy, Primary
43261	43260	Duodenoscopy W/Contrast Injec, Both Pancreatic, Bile Duct
43265	43268	Duodenoscopy W/Cannulation of Ampulla of Vater
43452	43450	Esophageal Dilation W/Mercury Weighted Bougie(S)
45373	45370	Colonoscopy, Beyond 25CM, Below Splen Flex W/Polypectomy
45387	4585	Colonoscopy, Beyond Splenic Flexure W/Polypectomy, Multip
45989	90030	Exam, Digital Of Rectum
49304	49301	Laparoscopy W/Liver Biopsy
50701	50951	Ureteral Dilatation
51721	51700	DMSO Bladder Installations
51794	52000	Cystoscopy
52004	52005	Cystourethroscopy, Ureteral Catheterization (Unilat)
53680	53670	Foley Catheter Care
54500	54505	Biopsy, Testis (Open)
58340	74741	Hysterosalpingogram
58993	89300	Post Coital Test
59001	59000	Amniocentesis, Genetic
59002	59000	Amniocentesis, Pulmonary Maturity
59040	59420	External Cephalic Version
59423	80055	Antepartum Testing, Biophysical Profile
59450	59420	Labor Check
62275	62279	Differential Epidural
62281	62280	Phenol Block
62283	62282	Neurolytic Lumbar Sympathetic
64444	64442	Injec, Lumbar Facet
64451	64450	Post Tib Nerve Block
64452	64450	Ankle Nerve Block
64453	64450	Wrist Nerve Block
64454	64450	Digital Nerve Block
64460	64680	Neurolytic Celiac
64461	64640	Peripheral Neurolytic
64485	62278	Epidural Catheter Placement
64512	64450	Sympathetic Bier Block
65223	65222	Corneal Stain
65224	65205	Foreign Body Removal (Eye)
65780	90030	Keratometry
66683	66720	Ciliary Body Cryotherapy
66763	66762	Photocoagulation, Anterior Segment
67105	67226	Photocoagulation, Retina
67851	67850	Destruction, Lid Lesion
68111	68135	Removal Of Lesion Of Conjunctiva
69212	69210	Irrigation, Ear
69600	13152	Revision, Previous Surgery, Ear
71031	90030	Interpretation, Chest-X-Ray (2 Views)
71251	90040	Interpretation Of Chest CT
74416	74415	Flat Tomogram, Kidney, Plain
74427	74426	Antegrade Urethrogram

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
74428	74426	Antegrade Nephrostogram
74453	74451	Retrograde Urethrogram
74482	74000	Kub
76105	76100	Interpretain, Tomography, Sing, Plane, Body, Section, Not Kid
76516	76511	Ultrasonography, A-Scan
76517	76512	Ultrasonography, B-Scan
78405	78499	Muga, Interpretation Only
78589	90040	Interpretation, Ventilation/Perfusion Scan
78598	90040	Interpretation, Gallium Scans
81001	81002	Urinalysis (Dip Stick)
82999	82996	Gonadotropin Reduction Test
84998	82383	Clonidine Suppression Test
86402	95030	Prescipitin Determination
86456	86455	Anergy, Screen Result, Reading
86581	86585	TB Test, Tine (Admin)
86582	90030	TB Test (Read)
87073	87070	Culture, Cervix
87074	87070	Culture, Urethra
87204	87205	Vaginal Smear
87215	87210	Wet Mount (For OVA, Parasites, Bacteria Fungi) and KOH
87989	87207	Tzanck Stain
89101	89105	Duodenal Entubation & Aspiration, Secretin Test
89191	88161	Nasal Cytology
89321	87070	Expressed Prostatic Secretion
90002	90030	Suture Removal
90006	90050	Exam, Complaint Specific F/U
90007	90000	ACE Bandage Application
90008	90015	Evaluation, Initial
90009	90010	Exam, Complaint Specific Med.
90011	90040	Dressing Change
90012	90017	History/Exam Initial OB
90013	90000	Exam, Breast
90014	92551	Screening Hearing
90016	90010	Exam, Eye, Limited
90018	90015	Observation & Examination
90019	90040	Exam, Return To Work
90021	99155	Diabetic Teaching (Extended Services)
90024	90015	Exam, General Medical
90025	90015	Exam, Pelvic/Pap Smear
90026	90010	Exam, Physical, Partial, OB-GYN
90027	90017	Exam, Physical, Complete, OB-GYN
90028	90015	Exam, Physical MED
90029	90000	Exam, Screening Medical
90031	90030	Medications Adjustment
90032	90010	Exam, Pelvic
90033	90000	History, No Exam
90034	90010	Exam, General Medical, Partial
90042	92557	Exam, Hearing
90043	90010	Exam, Vision
90055	90060	Follow-up Evaluation
90061	90000	Diabetic Routine Foot Care
90081	90750	Exam, Flight 1/1A
90083	90750	Exam, Flight, Class 2 and 3 Type B
90084	90760	Exam, Flight, Interim, Class 2 and 3/FAA 3
90085	90750	Exam, Physical, Military (Incl Retirement)
90201	92002	Low Vision, Evaluation
90202	92012	Low Vision, Follow Up, Evaluation
90203	92392	Low Vision, Consultation/Dispensing
90601	99014	Telephone Consult (Documented)

<u>EXITCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
90635	90010	Eval, Pretreatment, Patient
90650	90600	Consultation, Limited
90652	90630	Consultation, Extensive
90655	90605	Consultation, Derm Path
90698	90799	Injec, Other (IM/IV)
90700	99080	Shot Record Review
90710	90724	IMM, Small Pox
90711	90724	IMM, Hemophilus Influenza B
90720	90749	Immunizations
90721	90724	IMM, Smallpox
90722	90799	Unlisted Therapeutic Injection
90723	90724	IMM, Adenovirus
90743	90742	Immune Serum Globulin (ISG), HEP B
90744	90742	Immune Serum Globulin (ISG), HEP Human Rabies
90745	90782	Injection/Observation
9076	90742	Immune Serum Globulin (ISG), HEP Tetanus
90747	90742	Immune Serum Globulin (IS), HEP Varicella Zoster
90765	90020	EFMP Assessment
90766	90015	EFMP Evaluation
90767	90060	EFMP Therapy
90768	99080	EFMP Coding
90769	90782	Admin of HCG-Testosterone
90770	36000	IV Admin, Diagnostic Materials
90771	62288	Injec, Intrathecal Steroid
90772	90782	Injec, Celestone
90780	90782	Injec, Anes & Steroid
90783	90782	Injec, Intramuscular, Corticosteroid
90785	90782	Injec, Desferal
90786	90784	Injec, Imferon
90787	90784	Injec, Morphine
90789	90782	Injec, Aristocort
90790	96500	Chemotherapy
90791	90782	Injec, Depo-Testosterone (100MG)
90792	90782	Injec, Delatestryl
90793	90782	Injec, Kenalog
90794	90782	Injec, Marcaine
90795	90782	Injec, Vitamin B12
90796	90782	Injec, Xylocaine
90797	90784	Injec, Amphotericin
90802	90825	Eval, Admin, Psychiatric
90848	90847	Therapy, Marital/Couple, Psychiatric
90849	90853	Therapy, Group, Psychiatric
90931	90050	Medications Adjustment
90960	90957	Hemodialysis, Chronic, Pediatric, Uncomplicated
90961	90957	Hemodialysis, Chronic, Pediatric, Complicated
90962	90955	Hemodialysis, Chronic, Uncomplicated
90963	90955	Hemodialysis, Chronic, Complicated
90966	49080	Peritoneal Lavage
90970	90982	Peritoneal Dialysis, Chronic, Intermittant, Complicated
90971	90982	Peritoneal Dialysis, Chronic, Intermittant, Uncomplicated
90972	90984	Peritoneal Dialysis, Chronic, Pediatric, Complicated
90973	90984	Peritoneal Dialysis, Chronic, Pediatric, Uncomplicated
90974	90994	Peritoneal Dialysis, Continuous, Ambulatory
90975	90994	Peritoneal Dialysis, Continuous, Cycling
90995	90990	Technique Evaluation, Dialysis
91012	91010	Esophageal Motility Study
91053	91052	Gastric Analysis W/Sham Feeding
92001	92002	Exam, Eye, Triage

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
92003	90010	Exam, Visual Acuity
92005	90000	Irrigation, Eye
92061	92280	Potential Acuity Meter
92066	92065	Binocular Vision Training, Follow-up
92067	92065	Binocular Vision Training, Session
92085	92083	Perimetry, Automated
92086	92081	Perimetry, Tangent Screen
92227	92225	Biomicroscopy (Slit Lamp)
92231	92225	Ophthalmoscopy, Indirect
92276	92002	Evaluation, Laser (Occupational Vision)
92277	92002	Evaluation, Microwave (Occupational Vision)
92278	92002	Evaluation, Depth Perception
92281	92002	Exam Safety Spectacle (Occupational Vision)
92282	92002	Contrast Sensitivity
92283	92002	Color Vision Examination
92289	92004	Exam, Optometry Flight Class I
92290	92004	Exam, Optometry Flight Class II
92291	92004	Exam, Optometry Flight Class III
92292	92004	Exam, Optometry Flight Class ATC/VO
92319	92310	Contact Lens, Hard/Gas Permeable (Eval, Fit, or Dispense)
92320	92310	Contact Lens, Mandatory (Eval, Fit or Dispense)
92343	92340	Eval, Eyeware
92375	92341	Spectacle Procedure (Fit, Order, Adjust)
92380	92340	Vision Conservation, Issue Plano
92489	92391	Contact Lens, Verification
92491	90030	Lensometry
92492	92310	Contact Lens, Evaluation For
92493	92310	Contact Lens, Follow-up
92494	92310	Contact Lens, Fitting
92495	92310	Contact Lens, Refitting
92496	92391	Contact Lens, Dispensing
92497	92002	Refraction, Manual
92498	92002	Refraction, Automated
92505	92506	Eval, Medical, Speech, Language or Hearing (Child)
92509	92507	Individual Speech Therapy (Child)
92510	92508	Group Therapy, Speech (Child)
92513	92511	Rhinoscopy
92548	92543	Eval, Otoneurological, For Vertigo
92558	92557	Audiology Test Battery/Immittance Test Battery
92593	92591	Consulation, Hearing Aid (Binaural)
92597	92557	Hearing Evaluation Pediatric
92598	92590	Earmold
92601	99070	Speech Communication Device Provided
92602	92590	Hearing Aid Issue
92603	92590	Hearing Aid Orientation
92604	92592	Hearing Aid Repair
92605	92507	Aural Rehabilitation
92606	99070	Speech Materials Provided
92607	92556	Word Recognition Scores
92608	92589	Supra Threshold Adapation Test
92609	92589	Performance Intensity Function
92610	99155	Counseling, Hearing Conservation
92611	99155	Counseling, Speech
92612	90030	Hearing, Issue/Fit Protection Device
92613	92592	Calibration, Hearing Aid
93012	93014	Rhythm Strip Analysis
93016	93015	Stress Test, Bicycle
93321	93320	Echo, M-Mode, Doppler, Interpretation Only
93786	90030	Blood Pressure Check

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
93871	93870	Duplex Scanning
93872	93870	Arteriography, Transcutaneous Ultrasonic
93891	90030	Bilat Arm BP Measurements
93911	93910	SEG Pressure Measurements
93912	93910	Ankle Pressure Measurements
94020	90040	Interpretation of Routine Pulmonary Function Studies
94061	94060	Spirometry, After Exercise
94401	94450	Oxygen Stimulation Tests
94691	95827	Sleep Studies
95004	95001	Prick Test To 60
95010	95002	Skin Test, Food, Prick
95012	95006	Skin Test, Drug, Prick
95015	95022	Intradermal Test Skin Test To 30
95024	95001	Skin Test, Inhalants, Prick
95035	95021	Skin Test, Inhalants, Intradermal
95072	94070	Bronchial Challenge, Water
95073	94070	Bronchial Challenge, Sulfite
95074	94070	Bronchial Challenge, Histamine
95090	95006	Skin test, Hymenoptera Venoms, Prick
95091	95018	Skin Test, Hymenoptera Venoms, Intradermal
95092	95016	Skin Test, Drugs, Intradermal
95093	95006	Skin Test, Fireant, WBE, Prick
95094	95016	Skin Test, Fireant, WBE, Intradermal
95122	95131	Immunization, Allergy, Two Injections
95123	95132	Immunization, Allergy, Three Injections
95124	95133	Immunization, Allergy, Four Injections
95181	95180	Densensitization Proc, Insulin
95182	95180	Densensitization Proc, Penicillin
95183	95180	Densensitization Proc, Misc
95200	95078	PUC, Mecholyl Skin Test
95201	95078	PUC, Hot Water Immersion Test
95202	95078	PUC, Exercise Challenge For Cholinergic Urticaria
95203	95078	PUC, Ice Cube Test
95204	95078	PUC, Pressure Test Immediate
95205	95078	PUC, Pressure Urticaria Delayed Test
95206	95078	PUC, Vibratory Test
95207	95078	PUC, Morphine Sulfate Skin Test
95208	95078	PUC, Dermographia Test
95210	86155	Rebuck Skin Window
95215	95078	Challenge Test, Dye
95216	95078	Challenge Test, Preservative
95217	95078	Challenge Test, Food
95218	95078	Challenge Test, Aspirin
95219	95078	Challenge Test, NSAIA
95220	95078	Challenge Test, Drug Misc
95221	90798	Emerg Treat, Asthma
95223	90798	Emerg Treat, Anaphylaxis (Epinephrine)
95640	94640	Inhalation Therapy
95850	95851	Biomechanical Exam
95901	95900	Nerve Conduction Studies, Two Extremities
95902	95900	Nerve Conduction Studies, Three Extremities
95903	95900	Nerve Conduction Studies, Four Extremities
95910	92585	Evoked Potentials, Brainstem
95911	92280	Evoked Potentials, Visual
95920	90000	Eval, Neurovascular
95934	95935	Evoked Potentials, (F Reflex)
96502	90784	Injec, Streptokinase, Intravenous
96503	90782	Injec, Gold
96521	96520	Port Pump Refill Day 2-5
96522	90030	Port-A-Cath Flush, Complex

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
96523	90030	Port-A-Cath Flush, Simple
96548	90030	Vital Signs Monitoring - 2, 4, or 6 Hours Post Chemo
96550	90784	Injec, Heparin
96600	96524	Chemotherapy, Investigational Drug
97702	97700	Orthotics Check
97703	97700	Prosthetic Check
9705	90050	Pressure Garment Fitting
98100	99070	OPAB, Reece Shoe
98101	99070	OPAB, Reece Shoe W/Extra Padding
98102	99070	OPAB, Plastizote Insole
98103	99070	OPAB, Heat Molded Plastizote
98104	99070	OPAB, Spenco Inserts
98105	99070	OPAB, Spenco W/Scaphoid Pads
98106	99070	OPAB, Spenco W/Cutouts
98107	99070	OPAB, Spenco W/Cutouts & Scaphoid Pads
98108	99070	OPAB, Spenco W/Metatarsal Pads
98109	99070	OPAB, Spenco W/Metatarsal Bars
98110	99070	OPAB, Spenco W/Dancers Pads
98111	99070	OPAB, Spenco Forefoot Extension
98112	99070	OPAB, Spenco W/Edge
98113	99070	OPAB, Spenco W/Scaphoid & Edge
98114	99070	OPAB, Spenco W/Met. Bar & Scaphoid pad
98115	99070	OPAB, Add Mortons Extension
98116	99070	OPAB, 1/4, 3/8, 1/2 Inch Heel Lifts
98117	99070	OPAB, Heel Spur Insert
98118	99070	OPAB, Heel Cups
98119	99070	OPAB, Heel Wedges (Internal)
98120	99070	OPAB, Stock Arch Supports
98121	99070	OPAB, Cork & Leather Arch Supports
98122	99070	OPAB, Polypropylene Arch Supports
98123	99070	OPAB, Dennis Brown Splints
98124	99070	OPAB, BMI
98125	99070	OPAB, UCB Inserts
98126	99070	OPAB, Flexi - Flange
98127	99070	OPAB, Sole Wedges (Internal)
98128	99070	OPAB, Soft Sole
98129	99070	OPAB, Feet, Other
98140	99070	OPAB, Leather Lace or Canvas Lace
98141	99070	OPAB, Fabricate Leather Lace
98142	99070	OPAB, Elastic Anklet
98143	99070	OPAB, Orthoplast Stirrup Splint
98144	99070	OPAB, AFO (Stock)
98145	99070	OPAB, AFO (Fabricated)
98146	99070	OPAB, Short Leg Orthosis
98147	99070	OPAB, M-R Splint
98148	99070	OPAB, Ankle, Other
98160	99070	OPAB, Cart./Hinged/Elastic Support
98161	99070	OPAB, Cho-Pat Strap
98162	99070	OPAB, Neoprene Sleeve
98163	99070	OPAB, Lenox Hill
98164	99070	OPAB, Lerman
98165	99070	OPAB, KO (Fabricated)
98166	99070	OPAB, Measure for Jobst Hose
98167	99070	OPAB, Meas F/Jobst Hose W/Garter Belt
98168	99070	OPAB, Garter Belt
98169	99070	OPAB, Waist Suspension Belt
98170	99070	OPAB, Long Leg Orthosis
98171	99070	OPAB, PTB (Polypropylene)
98172	99070	OPAB, PTB (Orthoplast)
98173	99070	OPAB, Knee/Leg, Other

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
98174	99070	Patella Stabilizer
98175	99070	Swedish Knee Cage
98180	99070	OPAB, Stump Socks
98181	99070	OPAB, Distal End Pad
98182	99070	OPAB, Pylons/Satch Foot
98183	99070	OPAB, Prosthetics, Other
98190	99070	OPAB, Scottish-Rite
98191	99070	OPAB, Pavlik Harness
98192	99070	OPAB, Akho
98193	99070	OPAB, HO
98194	99070	OPAB, Hips, Other
98200	99070	OPAB, CVA Sling
98201	99070	OPAB, Tennis Elbow
98202	99070	OPAB, Elbow Pads
98203	99070	OPAB, Elastic Wrist Band
98204	99070	OPAB, Canvas Wrist Gauntlet
98205	99070	OPAB, Polypropylene Wrist Gauntlet
98206	99070	OPAB, Measure for Jobst Gloves
98207	99070	OPAB, Finger Splints
98208	99070	OPAB, Airplane Splints
98209	99070	OPAB, Arms/Hands, Other
98220	99070	OPAB, Cervical Collar
98221	99070	OPAB, Four Poster
98222	99070	OPAB, S. O. M. I.
98223	99070	OPAB, Jewett
98224	99070	OPAB, Cash
98225	99070	OPAB, TLSO
98226	99070	OPAB, Chair Back
98227	99070	OPAB, Taylor Back
98228	99070	OPAB, Abdominal Binder
98229	99070	OPAB, L-S/S-I Corset
98230	99070	OPAB, Spinal, Other
98231	99070	Lumbar Corset
98240	99070	OPAB, Stretch Boots
98241	99070	OPAB, Stirrup Changes
98242	99070	OPAB, Heels
98243	99070	OPAB, Wedges (External)
98244	99070	OPAB, Build-ups
98245	99070	OPAB, Rocker Bottom
98246	99070	OPAB, Ripple Soles
98247	99070	OPAB, Crepe Soles
98248	99070	OPAB, Leather Soles
98249	99070	OPAB, Metatarsal Bars (External)
98250	99070	Add Velcro To Shoes
98251	99070	OPAB, Shoes, Other
98252	99070	Measure For Boston Shoes
98260	99070	OPAB, Replace Calf Leather
98261	99070	OPAB, Replace Thigh Lacer
98262	99070	OPAB, Refurbish Long Leg Orthosis
98263	99070	OPAB, Refurbish Short Leg Orthosis
98264	99070	OPAB, Refurbish Scottish-Rite
98265	99070	OPAB, Recover Airplane Splint
98266	99070	OPAB, Readjust Airplane Splint
98267	99070	OPAB, Trim TLSO
98268	99070	OPAB, Replace Straps on TLSO
98269	99070	OPAB, Minor Lennox Hill Repairs
98270	99070	OPAB, Repair Post/Polypropylene Arch
98271	99070	OPAB, Hook & Pike
98272	99070	OPAB, Cut Material W/Bandsaw
98273	99070	OPAB, Sew Material

<u>EXTCD</u>	<u>CPT-4</u>	<u>DESCRIPTION</u>
98274	99070	OPAB, Remove Shoe Build-up
98275	99070	OPAB, Repair/Replace/Fabs, Other
99025	90774	Exam, Developmental Screen For Handicaps In Early Childhood
99069	99070	Ordering Home Dialysis Supplies
99074	90030	Suture Remove & Dress
99076	99155	Teaching, Breast Self Exam
99077	99155	Teaching, Testicular Self Exam
99079	99155	Patient Education (Nephrology)
99081	99080	Med Record Review
99083	90155	Teaching, (Other Direct Patient)
99084	99082	Escort Of patient (AMBUL)
99085	99082	Escort Of Patient (MEDEVAC)
99086	99082	Transport Of Patient (EMER)
99091	99080	Screen, In Process Medical
99092	99080	Screen, POR
99093	99080	Screen, PRP
99094	99080	Screen, Security Clearance
99157	99155	Nurse-Patient Counseling
99158	99155	General Counseling/Advice Contraceptive
99169	99160	Mult Trauma Resus (Team Leader)
99196	36415	Phlebotomy, Diagnostic

APPENDIX B

AMBULATORY CARE DATA BASE (ACDB) Extended Diagnosis Codes With Conversions To ICD-9-CM

EXTCD	ICD-9-CM	DESCRIPTION
S2102	V608	Physical Barriers, Home or Community
S2103	V608	Health Hazards
S2105	V608	Barracks Condition
S2106	V608	Adequate Housing Unavailable For Dependent
S2107	V602	Faces Eviction
S2108	V609	Other Living Condition Problem
S2111	V618	Responsible Relative Unable To Cope
S2112	V604	Inadequate Support From Extended Family
S2115	V610	Situational Family Separation
S2117	V610	Problem Associated w/Being Sole Parent
S2118	V6120	Child-Mother
S2119	V618	Family Problem Associated W/Troop Deployment
S2120	V619	Other Family Problem
S2131	30989	Problem Adjusting To Medical Condition
S2132	30989	Adjustment To Acute Illness
S2133	30989	Adjustment To Chronic Illness
S2134	30989	Adjustment To Terminal Illness
S2135	30989	Adjustment to Chronic Disability
S2136	V654	Poor Understanding Of Injury/Illness, DEA
S2137	V654	Poor Understanding Of Treatment Process
S2138	V658	Unable To Follow Treatment Program
S2139	V1581	Unwilling to Follow Treatment Program
S2140	30151	Secondary Gains From Illness/Injury
S2141	V659	Inappropriate Use Of MTF
S2142	V609	Needs Discharge Plan
S2143	V632	Needs Nursing Home Placement
S2144	V469	Dependence On Machines
S2145	9599	Assault Victim
S2146	V643	Requir/Request Proc/Not Avail/Thru/Mil/Ch
S2147	V659	Other Health/Med Problem
S2151	V602	Inadequate Income
S2152	V602	Inadequate Health Coverage
S2153	V608	Poor Money Management
S2154	V6C3	Indebtedness
S2155	V608	Pay Problems
S2156	V608	Bad Check Writing
S2157	V608	Unexpected/Emergency Expenses
S2158	V609	Other Economic Problem
S2161	V623	Illiterate
S2163	V400	Poor Reader
S2164	V623	School Dropout
S2165	V623	Inadequate Training/Education
S2166	V623	Needs Special Educational Program
S2168	V654	Requires Information RE: MGT of Illness
S2169	V268	Require/Inform/Regard/Pre/Postnatal/Alter
S2170	V622	Other ED/VOC Problem
S2182	V622	Underemployment
S2184	V622	Superior Subordinate Difficulty
S2185	V622	Limitations In Kinds Of Employment
S2186	V622	Inappropriate Employment
S2187	V622	Inadequate Job Performance
S2188	V622	Other Employment Problem
S2203	V624	Social Isolation
S2204	V6281	Peer Relationship Difficulties

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
S2205	V6281	Problems W/Other Personal Relationship
S2207	3089	Normal Reaction To Stress Situation
S2208	V403	Behavioral Management
S2209	V409	Behavior Stressful To PTS/Staff
S2210	V6289	Behavior Stressful to Self/Family/Others
S2211	V6289	Other problem Of Psychosocial Functioning
S2221	V6129	Child Management Problems
S2222	V623	Absence From School
S2223	V623	Discipline Problems At School
S2224	3129	Delinquency
S2225	3139	Other Problem Of Childhood
S2231	V6289	Problems Adjusting To Different Culture
S2232	V6289	Conflicts Of Customs, Mores, Etc
S2233	V401	Language Limitations
S2234	V629	Other Cultural Problem
S2241	V6289	Lack Of Religious Support
S2243	V626	Religious Practice Conflicts
S2245	V6289	Other Religious Problems
S2251	V638	No Community Resources Available
S2252	V630	Resources Inaccessible
S2253	V638	Resources Inadequate For Needs Of Patient
S2254	V608	Resource Delay Responding to Need
S2256	V639	Other Community Resource Problem
S2261	V602	PT/Family Has No Private Transportation
S2262	V638	No Community Transportation Resources
S2263	V608	Resources Unavailable On Timely Basis
S2264	V602	Unreliable Transportation
S2265	V602	Resources Unable To Meet Patient Needs
S2266	V638	Other Transportation Problem
S2271	V613	Elderly At risk
S2272	V6149	Child At Risk
S2273	V159	Other At Risk
S2274	V613	Suspected Elderly Abuse
S2275	99581	Confirmed Elderly Abuse
S2279	V618	Suspected Spouse Abuse
S2280	99581	Confirmed Spouse Abuse
S2281	99581	Other Abused Person
S2291	V6289	Multi-Problem Situation
S2292	V6889	Needs Adoptive Services
S2293	V610	Stress Of Divorce Proceedings
S2295	V154	Environmental Disaster Victim
S2296	V654	Request/Needs Information
S2297	V6289	Problems Caused By Admin/Bureau Failure
S2298	V658	Social Work Problems, Other, I
S2299	V658	Social Work Problems, Other, II
S2301	V658	Social Work Problems, Other, IV
S3051	30510	Tobacco Use Disorder
V0171	V017	Hepatitis Exposure
V05	V069	Immunization, Prophylactic
V0711	V071	Desensitization to Allergens Follow-up
V0731	V073	INH Prophylaxis
V0732	V073	Endocarditis, Prophylaxis
V213	V218	Growth Discrepancy
V219	V6149	EFM Functional Need Assessment
V22	V221	Pregnancy, Normal
V226	V221	Pregnancy, Teenage
V23	V239	Pregnancy, High Risk
V2421	V242	Aftercare, OB (PT)
V250	V2509	General Counseling & Advice
V2504	V2509	Vasectomy Request

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
V254	V2540	Surveillance Contraceptive Method
V30	V202	Normal Newborn
V4582	V588	T&A Post-OP
V4583	V588	Spine, Post-OP
V4950	V495	Prior Surg Revascular Attempt Of Limb
V5331	V533	Pacemaker, Single Chamber
V5332	V533	Pacemaker, Dual Chamber
V5371	V537	Needs Orthotic Appliance
V5372	V537	Repair Of Orthotic Appliance
V5373	V537	Repair Of Orthotic Prosthetic
V547	V548	Aftercare, Prosthetic Replacement
V5481	V548	Cast Reapplication
V5490	V549	Aftercare Amputation, Hand
V5491	V549	Aftercare Amputation, Finger
V5492	V549	Aftercare Amputation, Upper Arm
V5493	V549	Aftercare Amputation, Forearm
V5494	V549	Aftercare Amputation, Thigh
V5495	V549	Aftercare Amputation, Lower Leg
V5574	V528	Problem With Prosthesis
V5575	V529	Other Reason For Visit
V5730	V573	Post Laryngectomy, Rehab
V5731	V573	Laryngeal Disorder, Rehab
V5732	V573	Post Tracheotomy/Tracheostomy, Rehab
V5733	V5789	Post Concussion, Rehab
V5841	V584	Aftercare, Knee Surgery
V5842	V584	Aftercare, Shoulder Surgery
V5843	V584	Aftercare, Thoracic Surgery
V5844	V584	Aftercare, Renal Transplant
V5845	V584	Aftercare, Mastectomy
V5846	V584	Aftercare, Vascular Surgery
V5847	V584	Aftercare, Cardiac Surgery
V5881	V584	Aftercare, Abdominal Surgery
V5882	V588	Aftercare, Heart Disease Treatment
V5883	V584	Aftercare, Craniotomy
V5890	V571	Aftercare, Amputation, Other (PT)
V5891	V571	Aftercare, Amputation, Upper Arm (PT)
V5892	V571	Aftercare, Amputation, Forearm (PT)
V5893	V571	Aftercare, Amputation, Thigh (PT)
V5894	V571	Aftercare, Amputation, Leg (PT)
V5895	V572	Aftercare, Amputation (OT)
V5896	V5781	Aftercare, Orthotic
V6031	V603	Lives Alone, Unable to Care For Self
V6110	V611	Marital Problem
V6119	V611	Marital Problem
V6122	V6120	Suspected Child Neglect
V6123	V6121	Confirmed Child Neglect
V6124	V6120	Suspected Child Abuse
V6125	V6121	Confirmed Child Abuse
V6126	V6121	Non-Accidental Trauma
V6180	V618	Other Specified Family Circumstances
V6102	V620	Needs Employment
V6202	V620	Laid Off
V6220	V622	Occupational Problem
V6230	V623	Academic Problem
V6251	V6889	Needs Consent To Admit Or Treat
V6252	V6889	Needs Consent For Surgical Procedures
V6253	V6889	Needs consent For Discharge Planning
V6254	V625	Needs Protective SVC For Child Or Adult
V6255	V625	Needs Legal Assist For Civil/Med Matters
V6256	V625	Legal Problems, Other

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
V6261	V626	Religion Opposes Medical Care
V6288	V6289	Borderline Intellectual Function
V6291	V624	Psychosocial Deprivation
V63	V639	Unavail Of Med Facilities For Care
V6391	V638	No Vacancies In Other Health Care Facilities
V6520	V652	Malingering
V6551	V655	Emmetropia
V6552	V642	Left Against Medical Advice
V6553	V642	Left Without Being Seen
V6581	V658	Blood Pressure Check
V6811	V681	REQ For Non Prescrip Medication
V6882	V798	PT Referred By Milpo For Fam Member Screen
V7031	V703	Exam, School Physical
V7032	V703	Exam, Sports Physical
V7051	V705	POR Qualificaitons
V710	V7109	NP Observation
V7201	V720	Request For Glasses
V7231	V723	Exam, Well Woman
V73	V739	Special Screening For Viral Disease
V7379	27910	HTLV-III, Stage Unspecified
V8160	V816	Other & Unspec Genitourinary Conditions
V8261	V705	Wellness Maintenance/Health Promotion
000	V659	No Diag/Reasn For Visit Recorded By Prov
00022	7999	Unknown Cause Of Morbidity/Mortality
001	0019	Enteritis, Cholera
00645	7999	Unknown Cause Of Morbidity/Mortality
00731	7999	Unknown Cause Of Morbidity/Mortality
00881	0088	Enteritis, Viral
00882	5589	Diarrhea/Gastroenteritis
00901	0090	Colitis, Proven Infectious
0109	01090	Tuberculin Converter
0119	01190	Tuberculosis, Pulmonary
0120	01200	Tuberculosis, Effusion, Pleural
013	01390	Tuberculosis, Meninges & Cent Nervous System
015	01590	Tuberculosis, Bones & Joints
0150	01500	Tuberculosis, Vertebral
0159	0318	Arthritis, Mycobacterial
0160	01600	Tuberculosis, Renal
018	01880	Tuberculosis, Military, Disseminated
019	01790	Tuberculosis, Nonpulmonary
020	0209	Plague
021	0219	Tularemia
022	0229	Anthrax
023	0239	Brucellosis
03191	0319	Infection, Atypical Mycobacterial
038	0389	Septicemia
03981	0399	Nocardia
03990	0399	Actinomycosis
03991	0399	Nocardiosis
04082	04089	Toxic Shock Syndrome
04292	27910	Aids, Neurological
045	0459	Poliomyelitis, Acute
0451	04510	Poliomyelitis, Acute W/Other Paralysis
046	0469	Slow Virus Infection Of Cent Nervous System
052	0529	Varicella (Chickenpox)
054	0549	Herpes Simplex
05430	0543	Herpetic Meningoencephalitis
055	0559	Rubeola
060	0609	Yellow Fever
06553	7999	Unknown Cause Of Morbidity/Mortality

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
070	0709	Hepatitis, Viral, NOS
07015	0701	Hepatitis A, Viral W/O Hepatic Coma
07811	0781	Condyloma, Acuminatum
07812	0781	Condyloma, Vagina (Unless Syphilitic)
07813	0781	Warts, Plantar
07814	0781	Condyloma, Vulva (Unless Syphilitic)
07815	0781	Condyloma, Cervix (Unless Syphilitic)
07981	0798	Chlamydia
082	0829	Rickettsiosis Tick Borne
094	0949	Neurosyphilis
098	0980	Gonorrhea
09801	0980	Urethritis, Gonococcal
0989	09889	PPNG
09941	0994	Urethritis, Chlamydia
100	1009	Leptospirosis
110	1109	Dermatophytosis
111	1119	Dermatomycosis, Other, Unspec
114	11419	Coccidioidomycosis
115	11590	Histoplasmosis
11791	1179	Pneumonia, Fungal, Not Histo/Coccid
1310	1310	Trichomoniasis, Urogen
13691	1369	Infectious Disease, Unspec
141	1419	Neoplasm, Malignant, Tongue
143	1439	Neoplasm, Malignant, Gum
144	1449	Neoplasm, Malignant, Floor Of Mouth
149	1499	Neoplasm, Malig, Ill Def Site Lip/Oral
152	1529	Neoplasm, Malig, Small Intest/Deodenum
153	1539	Neoplasm, Malignant, Colon
154	1548	Neoplasm, Malig, Rectum/Rectosigmoid/Anus
1544	1540	Neoplasm, Malignant, Rectosigmoid Junct
155	1552	Neoplasm Malig, Liver/Intrahep Bile Ducts
156	1568	Neoplasm, Malig, Gallbl/Extrahep Bile Ducts
157	1579	Neoplasm, Malignant, Pancreas
158	1589	Neoplasm, Malig, Retroperi & Peritoneum
160	1608	Neoplasm, Malig, Nasal Cav/Mid Ear/Sinus
162	1628	Neoplasm, Malignant, Trachea/Bronchus/Lung
16281	1628	Abenoma, Bronchial, Carcinoid
16290	1629	Neoplasm, Malignant, Bronchogenic, Primary
16291	1629	Neoplasm, Malignant, Lung, Poorly Diff
16292	1629	Neoplasm, Malignant, Lung Undiff
16293	1629	Cylindroma
16294	1629	Neoplasm, Malig, Bronchogenic, Large Cell
16295	1629	Neoplasm, Malig, Bronchogenic, Small Cell
16296	1629	Neoplasm, Malig, Broncho, Squamous Cell
16297	1629	Neoplasm, Malig, Lung/Nodules, Parenchymal
16298	1629	Adenocarcinoma, Lung
163	1639	Neoplasm, Malignant, Pleura
164	1648	Neoplasm Malig, Thyus/Heart/Mediastinum
17000	1700	Neoplasm, Malignant, Temporal Bone, Ear
17001	1700	Neoplasm Malignant, Skull
17020	1702	Neoplasm, Malignant, Vertebral Column
17112	1719	Neoplasm, Malignant, Connective Tissue
17192	1719	Neoplasm, Malignant, Connective Tissue
17193	1718	Neoplasm Malig, Lymph/Blood/Soft Tissue
172	1729	Melanoma, Malignant, Skin
173	1739	Neoplasm Malignant, Skin, Nos
17391	1739	Neoplasm, Malignant, Skin, Basal Cell
17392	1739	Neoplasm, Malignant, Squamous Cell
1811	181	Choriocarcinoma
186	1869	Neoplasm, Malignant, Testes

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
187	1879	Neoplasm, Malignant, Male Genitalia, Nos
1895	1890	Neoplasm, Malignant, Kidney
1896	1879	Neoplasm, Malig, Genitalia, Unspec (Male) C3(Fem)
190	1909	Neoplasm, Malignant, Eye
19001	1908	Neoplasm, Malignant, Eye/Orbit
19100	1910	Neoplasm, Malig, Cerebrum, Ex Lobes/Vents
19291	1719	Neoplasm, Malignant, Peripheral Nerves
194	1949	Neoplasm, Malig, Endo Gland & Relat Struct
19440	1944	Neoplasm, Malignant, Pineal Region
19501	1950	Neoplasm, Malignant, Nose
197	1973	Neoplasm, Malig, Respir/Digest Sys, Secon
198	19889	Neoplasm, Malig, Other Spec Sites, Secondary
19821	1982	Neoplasm, Malig, Mastectomy Site, Secondary
19831	1983	Neoplasm, Malignant, Brain, Secondary
19832	1983	Neoplasm, Malignant, Spine, Secondary
19883	19889	Neoplasm, Malignant, Head & Neck, Secondary
1991	1991	Neoplasm, Malig, Secondary, Unspec Site
19912	1991	Neoplasm, Malignant, Nos
19913	1991	Paraneoplastic Syndrome
19914	1991	Neoplasm, Malignant, Major Organ, Unspec
19915	1991	Remote Effect Of Neoplasms
1995	1990	Complication, Cancer, All Sites
200	20080	Lymphosarcoma & Reticulosarcoma
2000	20000	Reticulosarcoma
2001	20010	Lymphosarcoma
2002	20020	Burkitt's Tumor or Lymphoma
2008	20080	Other Variants Lymphosarcoma/Reticulosarcoma
201	20190	Hodgkin's Disease
2014	20140	Lymphocytic-Hystiocytic Predominance
2015	20150	Nodular Sclerosis
2016	20160	Mixed Cellularity
2017	20170	Lymphocytic Depletion
202	20290	Neoplasm, Malig, Other Lymphoid/Histiocytic
2020	20200	Nodular Lymphoma
2021	20210	Mycosis Fungiodes
2022	20220	Sezary's Disease
2023	20230	Malignant Histiocytosis
20231	20230	Reticuloendothelioses, Malignant
2024	20240	Leukemic Reticuloendotheliosis
2025	20250	Letterer-Siwe Disease
2026	20260	Malignant, Mast Cell Tumors
20281	20280	Lymphoma, Cutaneous
29282	20010	Lymphoma, Lymphocytic, Malignant, Nos
20283	20280	Lymphoma/Leukemia, Primary Of Lung
204	2049	Lymphocytic Keukemia
205	2059	Leukemia, Myeloid
20501	2050	Leukemia, Myelocytic, Acute
20511	2051	Leukemia, Myelocytic, Chronic
206	2069	Leukemia, Monocytic
208	2089	Leukemia, Unspec Cell Type
21121	2112	Neoplasm, Benign, Small Intestine
21210	2121	Papilloma, Laryngeal
21211	2121	Papilloma, Vocal
21300	2130	Neoplasm, Benign, Skull
21321	2132	Neoplasm, Benign, Spine
21501	2150	Neuroma, Neck
21593	2159	Neuroma, Unspec
21691	7019	Acrochordon
21692	2169	Dermatofibroma
21693	2169	Nevus, Melanocytic, Benign

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
21694	2169	Neoplasm, Benign, Skin/Subcutaneous Tissue
2171	217	Papilloma, Intraductal
2172	217	Fibroadenoma, Breast
221	2219	Neoplasm, Benign, Female Genitalia
222	2229	Neoplasm, Benign, Male Genitalia
2234	2230	Neoplasm, Benign, Kidney
225	2254	Meningioma, Intracranial Or Spinal
22511	2251	Neuroma, Acoustic
22701	2270	Pheochromocytoma
22702	2270	Adenoma, Adrenal Gland
22731	2273	Neoplasm, Benign, Sellar/Suprasellar
22740	2274	Neoplasm, Benign, Pineal Region
2280	22801	Hemangioma
2299	2298	Neoplasm, Benign, Unspec Site
22994	1991	Neoplasm, Mesothelioma
23291	2329	Bowen's Disease, Site Unspec
23292	2329	Melanoma, In-Situ
23293	702	Keratosis, Actinic
23331	2333	Carcinoma, In-Situ, Vulva, Cis
23332	2333	Carcinoma, In-Situ, Vagina, Cis
23571	2357	Adenoma, Bronchial
23821	7011	Keratoacanthoma
23861	2386	Plasmacytoma
23900	2390	Neoplasm, Nasopharynx, Unspec Nature
23901	2390	Neoplasm, Esophagus, Unspec Nature
23902	2390	Neoplasm, Stomach, Unspec Nature
23903	2390	Neoplasm, Biliary Tract, Unspec Nature
23904	2390	Neoplasm, Liver, Unspec Nature
23905	2390	Neoplasm, Pancreas, Unspec Nature
23906	2390	Neoplasm, Gallbladder, Unspec Nature
23907	2390	Neoplasm, Small Intestine, Unspec Nature
23908	2390	Neoplasm, Colon, Unspec Nature
23909	2390	Neoplasm, Sigmoid, Unspec Nature
23911	2391	Neoplasm, Larynx, Unspec Nature
23912	2391	Neoplasm, Pleura, Unspec Nature
23921	2391	Neoplasm, Epidermal, Unspec Nature
23922	2392	Neoplasm, Dermal, Unspec Nature
23923	2392	Neoplasm, Subcutaneous, Unspec Nature
23924	2392	Neoplasm, Spinal Column, Unspec Nature
23951	2395	Neoplasm, Cervix, Unspec Nature
23952	2395	Neoplasm, Kidney, Unspec Nature
23953	2395	Neoplasm, Ovary, Unspec Nature
23954	2395	Neoplasm, Penis, Unspec Nature
23955	2395	Neoplasm, Prostate, Unspec Nature
23956	2395	Neoplasm, Testicle, Unspec Nature
23957	2395	Neoplasm, Uterus, Unspec Nature
23963	2396	Neoplasm, Brain Tumor, Unspec
23970	2397	Neoplasm, Spinal Cord, Unspec Nature
23971	2580	Neoplasm, Mult Endocrine Neoplasia Synd
23975	2397	Neoplasm, Spinal Meninges, Unspec Nature
23976	2397	Neoplasm, Adrenal, Unspec Nature
23977	2397	Neoplasm, Nervous System, Unspec Nature
23978	2397	Neoplasm, Pituitary, Unspec Nature
23979	2397	Neoplasm, Thyroid, Unspec Nature
23900	27992	Orbital Mass
23981	2390	Neoplasm, Salivary Gland, Unspec Nature
23982	2390	Neoplasm, Tongue, Unspec Nature
23983	2390	Neoplasm, Tonsils, Unspec Nature
23984	2390	Neoplasm, Rectum/Anus, Unspec Nature
24091	2409	Goiter, Diffuse Nontoxic

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
2420	24200	Goiter, Diffuse Toxic
2429	24290	Hyperthyroidism
24490	2449	Hypothyroidism, Acquired
24521	2452	Thyroiditis, Hashimoto's
24621	2469	Mass, Thyroid
250	25000	Diabetes Mellitus
2506	25060	Neuropathy, Diabetic
2509	25090	Diabetic Complication, Nos
25300	2530	Acromegaly & Gigantism
25311	2531	Hyperprolactinemia Ant Pit Hyperfunct
25312	2531	Amenorrhea/Galactorrhea Ant Pit Hyperfunct
25320	2532	Panhypopituitarism
25541	2554	Addison's Disease
25581	2558	Adrenal Hyperplasia
25631	2563	Hypogonadism, Female
25721	2572	Hypogonadism, Male
25881	2588	Polyglandular Failure, Autoimmune
27131	2713	Intolerance, Lactose Pediatric
272	2729	Metabolic Disorder, Lipid
274	2749	Gout
27541	2754	Hypercalcemia
27542	2754	Hypocalcemia
27581	2758	Metabolic Bone Disease
27691	2767	Potassium Disorders, Other
2770	27700	Cystic Fibrosis
27741	2774	Bilirubin Metabolism, Abnormal
27781	2778	Granuloma, Eosinophilic
27801	2780	Obesity, Pediatric
2791	27919	Deficiency, Cell-Mediated Immunity
27916	27910	HTLV III Positivity
27917	27910	Aids Related Complex (ARC)
27918	27910	Immunodeficiency, Acquired (Aids)
27922	2792	Immunodeficiency, Hereditary
280	2809	Anemia, Deficiency, Iron
281	2819	Anemia, Deficiency, Unspec
28220	2822	Anemia, Deficiency, G-6PD
2826	28260	Anemia, Sickle Cell
2838	2831	Anemia, Hemolytic, Toxic
284	2849	Anemia, Aplastic
28481	2848	Anemia, Aplastic, Due To Chronic Disease
285	2859	Anemia, Unspec
287	2872	Purpura
28711	2871	Coagulopathy, Platelet Defects Acquired
28901	2890	Polycythemia, Spurious
28981	2898	Macrocytosis
28982	2898	Myelofibrosis
28991	2899	Thrombocytosis, Essential
28992	2899	Thrombocytosis, Other
29000	2900	Dementia, Pri Degen Senile Onset, Uncompl
29030	2903	Dementia, Senile, W/Delirium
2905	2948	Organic Mental Disord, Uncomplicated
29100	2910	Alcohol, Withdrawal Delirium
29101	2910	Delerium Tremens
29110	2911	Alcohol, Amnestic Disorder
29120	2912	Dementia, Alcoholic, Unspec
29130	2913	Alcohol, Hallucinosi
29140	2914	Alcohol, Idiosyncratic Intoxication
29180	2918	Alcohol Withdrawal
292	2929	Psychosis, Drug
29290	2929	Psychosis, Drug

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
29300	2930	OBS W/ Delirium
29301	2930	Confusional State, Acute, Organic
29391	2948	Psychosis, Toxic/Metabolic
29400	2940	Amnestic Syndrome, OBS W/Add DX or Unknown
29410	2941	Dementia, OBS W/Add DX or Unknown Etiol
2942	2949	Organic Psychoses Excl Alcoholic
2943	2941	Dementia, Post-Traumatic
29480	2948	Organic Brain Syndrome Atypical Or Mixed
2953	29530	Paranoid Type Disorder
2959	29590	Schizophrenia, Unspec
2962	2980	Depressive Psychosis
29622	29620	Depression, Major, Single Episode, W/O ME
29623	29620	Drpession, Major, Single Episode, W/Mela
29627	29620	Depression, Maj, Sin Epi, W/Psy Feat Mood
2963	29630	Depression, Major, Recurrent Episode
29632	29630	Depression, Major, Recurrent, W/O Melanch
29633	29630	Depression, Major, Recurrent, W/Melanchol
29637	29630	Depression, Maj, Recurr, W/Psy Feat Mood
29642	29640	Bipolar Disorder, Manic, W/O Psychotic FE
2965	29650	Bipolar Affective Disorder, Depressed
29652	29650	Bipolar Disorder, Depressed, W/O Psychoti
29657	29654	Bipolar Dis, Dep W/Psy Feat Mood Incong
29662	29660	Bipolar Disorder, Mixed, W/O Psychotic
2967	29664	Bipolar Dis, Mix, W/Pay Feat Mood Incong
29670	2967	Bipolar Disorder, Atypical
29710	2971	Paronoia
29730	2973	Paranoid Disorder, Shared
29790	2979	Paranoid Disorder, Atypical
29830	2983	Paranoid Disorder, Acute
29889	2988	Psychosis, Brief Reactive
29890	2989	Psychosis, Atypical
2990	29900	Autism
300	3009	Neupotic Disorder
3000	30000	Anxiety Disorder
30003	30000	Anxiety/Tension Nos
30017	30016	Compensation Neurosis
30030	3003	Obsessive Compulsive Disorder
30040	3004	Dythymic Disorder (Depressive Neurosis)
30060	3006	Depresonalization Disorder
30070	3007	Hypochondriasis
30071	3007	Somatoform Dis, Atypical
30072	3007	Phantom Lump
30090	3009	Unsdhc Ment Dis Nonpsycho
30093	3009	Suicide Gesture
301	3019	Personality Disorder
30100	3010	Personality Disorder, Paranoid
3011	30110	Affective Personality Disorder
30140	3014	Personality Disorder, Compulsive
30160	3016	Personality Disorder, Dependent
30170	3017	Personality Disorder, Antisocial
30198	3019	Personality Disorder, Unspecified
30200	3020	Ego-Dystonic Homosexuality
30210	3021	Zoophilia
30220	3022	Pedophilia
30230	3023	Transvestism
30240	3024	Exhibitionism
30260	3026	Gendor Identity Dis Child
3027	30270	Psychosexual Dysfunction
30278	30272	Immence, Psycogenic
30298	3029	Psychosexual Disorder, Unspecified

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
3039	3030	Alcohol Dependence, Other & Unspec
3050	30500	Alcohol Abuse
3051	30510	Tobacco Use Disorder
30595	30590	Other, Mixed, Unspec Drug Abuse
306	3069	Physiological Malfunction, Mental Facotr
30600	3060	Psychophysiological Musculoskeletal Dis
30601	3060	Psychophysiological Musculoskeletal Dis
30700	3070	Stuttering
30710	3071	Anorexia Nervosa
30760	3076	Eneuresis, Functional
30770	3077	Encopresis, Functional
3078	30780	Psychalgia
308	3089	Acute Reaction To Stress
30830	3083	Post Traumatic Stress Disorder, Acute
30900	3090	Adjustment Disorder W/Depressed Mood
3092	30929	Adjustment Reaction W/Predom Disturb Oth
30930	3093	Adjustment Dis W/Disturb Of Conduct
30940	3094	Adjustment Dis W/Mix Disturb Emotion/Cond
3098	30989	Adjustment Reactions, Other Spec
30990	3099	Adjustment Reaction, W/Atypical Features
31010	3101	Organic Personality Synd
312	3129	Conduct Disorder, Nec
31223	31220	Cond Dis, Socialized, Aggres
31290	3129	Conduct Disorder, Atypical
31300	3130	Overanxious Disorder, Childhood/Adol
31399	3139	Emotional Disturb Or Childhood/Adol
31480	31400	Attention Deficit Disorder, Residual Type
31491	3149	Minimal Brain Dysfunction
31510	3151	Developmental Arithmetic Disorder
3153	31531	Developmental Speech/Language Disorder
31591	3159	Delayed Emotional Maturation
31600	316	Psych Fact Affect Phys Cond
31700	317	Mental Retardation, Mild W/O Other Behavior
31800	3180	Mental Retardation, Mod W/O Other Behav Sym
31810	3181	Mental Retardation, Severe W/O Other Behav
320	3209	Menigitis, Bacterial Nos
32110	1179	Meningitis, Fungal
32291	3209	Meningitis, Presumed Bacterial
323	3239	Encephalitis/Myelitis
32390	3239	Myelitis, Acute Transverse
32391	3239	Encephalomyelitis
32401	3240	Intracranial Abscess/Empyema
32411	3241	Intraspinal Abscess/Empyema
3251	325	Thrombosis, Cavernous Sinus
3260	326	Late Effect Of Myelitis, Acute Transverse
327000	30540	Barb Sim Act Sed/Hyp Intoxication
32701	2920	Barb Sim Act Sed/Hyp Withdrawal
32702	2920	Barb Sim Act Sed/Hyp Withdrawal Delerium
32704	29283	Barb Sim Act Sed/Hyp Amnestic Disorder
32710	30550	Opioid Intoxication
32711	2920	Opioid Withdrawal
32720	30560	Cocaine Intoxication
32730	30570	Amphet Sim Act Sympath Intoxication
32731	29200	Amphet Sim Act Sympath Withdrawal
32732	29281	Amphet Sim Act Sympath Delerium
32735	29211	Amphet Sim Act Sympath Delusional Disorder
32740	30590	PCP/Sim Act Arylcyclohex Intoxication
32742	29281	PCP/Sim Act Arylcyclohex Delirium
32749	2929	PCP/Sim Act Arylcyclohex Mix Organ Ment Dis
32755	29211	Hallucinogen Delusional Disorder

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
32756	30530	Hallucinogen Hallucinosi
32757	29284	Hallucinogen Affective Disorder
32760	30520	Cannabis Intoxication
32765	29211	Cannabis Delusional Disorder
32790	30590	Intoxication, Subs, Unspec
32791	2920	Withdrawal, Subs, Unspec
32792	29281	Delerium, Subs Unspec
32793	29282	Dementia, Drug Induced, Subs Unspec
32794	29283	Annestic Disorder, Drug Ind, Subs Unspec
32795	29211	Delusional Disorder, Subs, Unspec
32796	29212	Hallucinosi, Drug Induced, Subs, Unspec
32797	29284	Affective Disorder, Drug Ind, Subs Unspec
32798	29289	Personality Disorder, Drug Ind, Subs Unsp
32840	30590	PCP/Sim Act Arylcycloh Abuse, Unspec
32841	30591	PCP/Sim Act Arylcycloh Abuse, Continuous
32842	30592	PCP/Sim Act Arylcycloh Abuse, Episodic
32843	30593	PCP/Sim Act Arylcycloh Abuse, In Remission
3315	3315	Hydrocephalus, Acquired
332	3320	Parkinson's Disease
333	33390	Other Movement Disorders (Extrapyramidal)
33320	3332	Myoclonus, Hereditary
33321	3332	Myoclonus, Toxic-Metabolic
33333	3333	Tics Of Organic Origin
334	3349	Spinocerebellar Disease
335	3359	Anterior Horn Cell Disease
33600	3360	Syringomyelia & Syringobulbia
33691	3369	Lesion, Spinal Cord, w/o Vertebral Injury
33700	3370	Carotidynia
33701	3370	Carotid Sinus Syndrome
33791	3379	Dystrophy, Reflex Sympathetic
33792	3379	Shoulder-Hand Syndrome
3400	340	Multiple Sclerosis, Acute
3401	340	Multiple Sclerosis, Chronic
342	3429	Hemiplegia
345	3459	Epilepsy
34500	3450	Epilepsy, Generalized, Nonconvulsive
34510	3451	Epilepsy, Generalized, Convulsive
34542	3454	Epilepsy, Complex Partial (Temporal Lobe)
34550	3455	Epilepsy, Partial, Simple
34591	3451	Epilepsy, Generalized Tonic-Clonic
34592	3458	Epilepsy, Focal Onset W/Sec Generalized
346	3469	Headache, Migraine
34621	3462	Headache, Cluster
34820	3482	Benign Intracranial Hypertension
34881	3489	Brain Disease, Acquired
34900	3490	Headache, Lumbar Puncture
350	3509	Trigeminal Nerve Disorder (5th)
35010	3501	Trigeminal Neuralgia
351	3510	Facial Nerve Palsy (7th)
3512	3510	Spasm, Hemifacial
35291	3529	Palsey, Third Cranial Nerve
35292	3529	Palsey, Sixth Cranial Nerve
35301	3530	Rucksack Palsy
35322	3522	Disorder Glossopharyngeal Nerve (9th CN)
35351	3535	Parsonage-Turner Syndrome
354	3545	Mononeuritis, Upper Limb And Multiplex
35420	3542	Lesion Of Ulnar Nerve
355	3558	Mononeuritis, Lower Limb
35591	3559	Dysfunction, Nerve, Other
35592	3559	Neuropathy, Other

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
35593	3559	Peripheral/Spinal Nerve Disorder
35594	3559	Palsy, Posterior Interosseous Nerve
35595	3559	Nerve Entrapment Syndrome
35596	3559	Palsy, Anterior Interosseous Nerve
35681	3568	Palsy, Progressive Supranuclear
358	3589	Myoneural Disorder
35800	3580	Myasthenia Gravis, Ocular
3585	3588	Neuromuscular Blockage, Non-Myasthenic
359	3599	Muscular Dystrophy & Other Myopathy
35910	3591	Dystrophy, Muscular Nos
35911	3591	Dystrophy, Muscular, Duchenne's
35912	3591	Dystrophy, Muscular, Becker's
35913	3591	Dystrophy, Muscular, Limb Girdle
35914	3591	Dystrophy, Muscular, Facioscapulohumeral
35981	3598	Myopathy, Glycogen Storage
35982	3598	Myopathy, Lipid's Storage
35983	3598	Myopath, Infectious
35984	3598	Myopathy, Traumatic
3600	36000	Endophthalmitis, Purulent
3602	36020	Degenerative Disorders Of Globe
3603	36030	Hypotony Of Eye
36083	36089	Loss Of Eye, Aftercare
3610	36100	Retinal Detachment w/Retinal Defect
3611	36110	Retinoschisis & Retinal Cysts
3618	36181	Other Forms Retinal Detachment (Inc Traction)
3620	36201	Diabetic Retinopathy
3621	36210	Other Background Retinopathy/Retin Vas Changes
3622	36229	Other Prolif Retinopathy (Non-Diabetic)
3626	36260	Retinal Degeneration, Peripheral
3627	36270	Hereditary Retinal Dystrophies
3628	36289	Other Retinal Disorders
3633	36330	Chorioretinal Scars
3634	36340	Choroidal Degenerations
3635	35350	Hereditary Choroidal Dystrophies
3640	3643	Iridocyclitis
3645	36457	Degenerations Of Iris & Ciliary Body
3646	36460	Cysts Of Iris, Ciliary Body/Ant Chamber
3647	36470	Adhesions/Disrupt Of Iris & Ciliary Body
365	3659	Glaucoma
3650	36500	Glaucoma Suspect (Borderline Glaucoma)
3652	36520	Primary Angle-Closure Glaucoma
3654	36541	Glaucoma w/Congen Anomal, Dystroph & Sys
3656	36560	Glaucoma w/Other Ocular Disorder (Second)
366	3669	Cataract
36605	36600	Cataract, Infantile
3661	36610	Cataract, Senile
3662	36620	Cataract, Traumatic
3663	36630	Cataract, Seconary To Ocular Disorders
3665	36650	Post Cataract Opacification
36700	3670	Hyperopia
36723	36720	Astigmatism, Hyperopic
36724	36720	Astigmatism, Mixed
36725	3720	Astigmatism, Myopic
36741	36751	Accommodative Disorder
36791	3679	Refractive Error
3681	36810	Subjective Visual Disturbance
36817	36813	Photophobia
36818	3688	Visual/Perceptual Motor Dysfunction
3685	36859	Color Vision Deficiencies
3690	36900	Profound Visual Impairment (Both Eyes)

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
3700	37000	Corneal Ulcer
3702	37020	Superficial Keratitis w/o Conjunctivitis
3703	37040	Keratoconjunctivitis
3705	37050	Interstitial & Deep Keratitis
3706	37060	Corneal Neovascularization
3710	37100	Corneal Scars & Opacities
3711	37110	Corneal Pigmentations & Deposits
3712	37120	Corneal Edema
3713	37130	Changes In Corneal Membrane
3714	37140	Corneal Degeneration
3716	37160	Keratoconus
3720	37200	Conjunctivitis, Acute
3721	37210	Conjunctivitis, Chronic
3722	37220	Blepharoconjunctivitis
3724	37240	Pterygium
3727	37274	Conjunctival Vascular Disorders & Cysts
3730	37300	Blepharitis
3731	37311	Hordeolum
3733	37331	Non-Infectious Dermatoses Of Eyelid
3740	37400	Entropion
3741	37410	Ectropion
3743	37430	Ptosis, Eyelid
37435	74489	Ptosis Of Eyebrow
37436	74489	Deformity, Eyebrow, Acquired
37437	74489	Deformity, Eyebrow, Levator
3744	37445	Sensorimotor Disorders Of Eyelid
37491	37434	Excess Skin, Orbit, Acquired
375	3759	Lacrimal System Disease
3750	37500	Dacryoadenitis, Unspec
3752	37520	Epiphora
3753	37530	Acute & Unspec Inflamm Lacrimal Passages
3755	37553	Stenosis & Insuff Of Lacrimal Passages
3760	37600	Acute Inflammation Of Orbit
3761	37610	Chronic Inflammatory Disorders Of Orbit
3762	37621	Exophthalmos, Endocrine
377	3779	Disorders Of Optic Nerve And Visual Pathways
3770	37700	Papilledema (Optic Disc Edema)
3771	37710	Atrophy, Optic
3772	37754	Optic Disc Disorders, Others
3773	37730	Neuritis, Optic
3774	37749	Disorders Of Optic Nerve, Other
3775	37754	Disorders Of Optic Chiasm
3776	37754	Disorders Of Other Visual Pathways
3777	37754	Disorders Of Visual Cortex
3780	37800	Esotropia
37809	37883	Convergence Insufficiency
3781	37810	Exotropia
37819	37885	Divergence Insufficiency
37846	37840	Hyperphoria
3785	37850	Strabismus, Paralytic
3786	37860	Strabismus, Mechanical
3787	37873	Strabismus, Other Specified
3788	37887	Binocular Eye Movements Disorders, Other
37891	3789	Strabismus
37895	37884	Convergence Excess
37896	37885	Divergence Excess
37907	0940	Posterior Sclerosis
37908	37900	Episcleritis
3791	37919	Sclera Disorders, Other
3799	37990	Eye and Adnexa Disorder, Unspec

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
3800	38000	Perichondritis, Auricle
3801	38023	Otitis Externa
3802	38023	Otitis Externa, Other
3812	38120	Otitis Media, Mucoid
38150	38160	Eustachian Tube Blockage
382	3824	Otitis Media, Suppurative & Unspec
3820	38200	Otitis Media, Suppurative, Acute
3832	38320	Osteomastoiditis
38391	3839	Mastoiditis (Coalescent)
3840	38400	Myringitis, Acute w/o Otitis Media
38426	38420	Perforated Tympanic Membrane, Nontraumatic
3851	38510	Otitis Media, Adhesive
3860	38600	Meniere's Syndrome
3863	38630	Labyrinthitis
3864	38640	Fistula, Labyrinthine
3881	38810	Noise Effects Of Inner Ear
3883	38830	Tinnitus
3890	38900	Hearing Loss, Conductive
3891	38910	Hearing Loss, Sensorineural
391	3919	Rheumatic Fever w/Heart Involvement
392	3929	Chorea, Sydenham's
39701	3970	Rheumatic Heart Disease, Tricuspid Valve
401	4019	Hypertension, Essential
402	40290	Hypertension w/Cardiovascular Disease
403	4039	Hypertension w/Renal Dysfunction
405	40599	Hypertension, Secondary
40592	40591	Hypertension, Renovascular
410	4109	Acute Myocardial Infarction
413	4139	Angina Pectoris
414	4149	Heart Disease, Ischemic, Chronic, Other F
41401	4140	Heart Disease, Atherosclerotic, Post Cabg
41402	4140	Arteritis, Coronary Heart Disease
41406	4140	Heart Dis, Atheroscler, Norm LV (EF>40%)
41407	4140	Heart Dis, Atheroscler, ABN, LV (EF>40%)
41408	4140	Heart Dis, Atherosclerotic, Post PTCA
41409	4140	Heart Disease, Atherosclerotic, Unstable
41781	4178	Vasculitis, Pulmonary, Acute, Unspec
4229	42290	Myocarditis, Acute
42401	4240	Mitral Annular Calcification
42402	4240	Mitral Valve Regurgitation
42403	4240	Prolapse, Mitral Valve
42411	4241	Regurgitation, Aortic
42412	4241	Stenosis, Aortic, Valve Heart (Nonrheum)
42414	4241	Endocarditis, Aortic Valve
42415	4241	Stenosis, Aortic
42421	4242	Tricuspid Valve, Regurg (Nonrheumatic)
42422	4242	Tricuspid Valve, Regurgitation, Primary
42423	4242	Tricuspid Valve, Regurgitation, Secondary
42431	4243	Stenosis, Valvular Pulmonic
42432	4243	Endocarditis, Pulmonary Valve
42433	4243	Regurgitation, Pulmonic, Primary
42434	4243	Regurgitation, Pulmonic, Secondary
42491	42490	Endocarditis Nos
425	4254	Cardiomyopathy
4256	4254	Cardiomyopathy, Dilated
2620	4262	Left Anterior Fascicular Block, LAFB
42621	4262	Left Posterior Fascicular Block, LPFB
42690	4269	Prolonged QT
427	4279	Cardiac Dysrhythmias
42791	4279	Arrhythmia, Cardiac

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
42792	42789	Tachycardia, Multifocal Atrial
42793	42789	Bradycardia
42801	4280	Heart Failure, Congestive, Second To ASHD
42802	4280	Heart Fail, Congest, Sec To Endocarditis
42891	4289	Heart Failure, Idiopathic
42931	4293	Hypertrophy, Left Ventricular
42990	4299	Cardiac Disease, Unspec
42991	42789	Arrhythmia, Atrial & Ventricular, Other
43210	4321	Hemorrhage, Cereb, Subdur W/O Paralysis
433	4339	Occlusion & Stenosis Precerebral Arteries
434	4349	Occlusion Of Cerebral Arteries
435	4359	Transient Cerebral Ischemia
43591	4359	Trans Ischemic Attck W/Neuro Def (Rine)
4361	436	Cerebrovascular Accident (CVA) Left
4362	436	Cerebrovascular Accident (CVA) Right
4363	436	Cerebrovascular Accident, Multiple Lacunar
440	4409	Atherosclerosis
44021	4402	Gangrene, Arteriosclerotic
4405	4409	Ischemic Vascular Disease, Generalized
4438	4439	Peripheral Vascular Disease, Extremities
44391	4439	Intermittent Claudication
4442	44422	Arterial Embol/Thrombosis, Arteries Extrem
4443	44489	Arterial Embolism/Thrombosis, Systemic
4448	44489	Arterial Embolism/Thrombosis, Other Spec
446	4460	Polyarteritis Nodosa & Allied Conditions
44601	4462	Vasculitis, Eosinophilic (Churg-Strauss)
44602	4460	Angitis, Necrotizing Sarcoidal
44621	4462	Goodpasture's Syndrome
44651	4465	Arteritis, Temporal
44760	2870	Vasculitis, Cutaneous
44761	4476	Arteritis, Unspec
44782	4478	Hyperlasia, Fibromuscular-Carotid
44783	4478	Vasculitis, Kidney
44784	4478	Dysplasia, Fibromuscular
451	4519	Phlebitis/Thrombophlebitis
4511	45119	Phlebitis, Deep, Lower Extremity
454	4549	Varicose Veins, Lower Extremity
459	4599	Circulatory System Disorders, Other
45901	4590	Drug Extravasation
4601	460	Coryza
4602	460	URI Acute (Cold)
461	4619	Sinusitis, Acute
4631	463	Adenotonsillitis, Acute
4641	46410	Tracheitis, Acute
4642	46420	Acute Laryngitis & Tracheitis
4643	46430	Epiglottitis
466	4660	Bronchitis & Bronchiolitis
471	4719	Polyp, Nasal, (Nasal/Sinus)
472	4722	Pharyngitis & Nasopharyngitis, Chronic
47202	4720	Rhinitis, Sicca
47203	4720	Rhinitis, Medicamentosa
47204	4722	Nasopharyngitis, Purulent, Chronic
473	4739	Sinusitis, Chronic
47380	4739	Drainage, Postnasal
4741	47410	Hypertrophy, Tonsils, Adenoids
47480	4748	Cyst, Tonsil
47481	4748	Tonsillar Tag
477	4779	Rhinitis, Allergic
47780	4720	Rhinitis, Nonspec
47781	4770	Rhinitis, Allergic, Trees

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
47782	4770	Rhinitis, Allergic, Grass
47783	4770	Rhinitis, Allergic, Weeds
47784	4778	Rhinitis, Allergic, Mold
47785	4778	Rhinitis, Allergic, Pet
47786	4778	Rhinitis, Allergic, Dust
47787	4778	Rhinitis, Allergic, Mites
47788	4779	Rhinitis, Allergic, Seasonal
47789	4779	Rhinitis, Allergic, Perennial
47790	4720	Rhinitis, Non-Allergic W/Eosinophilia
47791	4779	Rhinitis, Vasomotor
47810	4781	Abscess, Nasal Septal
47812	4781	Perforation, Septal
47814	4781	Nasal Disorder, Other
47827	47826	Cyst, Hypopharynx
4783	47830	Paralysis, Vocal Cord
47835	47830	Paralysis, Vocal Cord, Iatrogenic
47836	47830	Paralysis, Vocal Cord, Chronic
47878	47879	Obstruction, Laryngeal
480	4809	Pneumonia, Viral
48281	4828	Pneumonia, Mycobacterial-Non-Tuberculosis
491	4919	Bronchitis, Chronic
49181	4918	Bronchiolitis Obliterans
492	4928	Emphysema
493	49390	Asthma
4930	49300	Asthma, Extrinsic
4931	49310	Asthma, Intrinsic
4939	49390	Asthma, Allergic
49392	49390	Asthma, Non-Allergic
49393	39390	Asthma, Episodic/Confining
49394	49390	Asthma, Fully Reversible
49395	49490	Asthma, Partially Reversible
49396	49390	Asthma, Bronchodilator Dep
49397	49390	Asthma, Steriod Dep
49398	39390	Asthma, Exercise Induced
49399	49390	Asthma, Occupational
495	4959	Alveolitis, Allergic, Extrinsic
49521	4952	Pigeon Breeder's Lung
49591	4959	Pneumonitis, Hypersensitivity
4961	496	Impaction, Mucoid, Tracheobroncheal
5011	5119	Effusion, Pleural, Secondary To Asbestos
50781	515	Pneumonitis, Interstitial, Drug Induced
508	5089	Respiratory Cond other Unspec Ext Agents
510	5109	Empyema
511	5110	Pleurisy
5117	5119	Effusion, Pleural, Sec To Pneumoconiosis
51181	5119	Effusion, Pleural, Sec To Malignancy
51182	5119	Effusion, Pulmonary, Sec to Mesothelioma
51183	5119	Effusion, Pleural, Secondary to Fungal
51190	5119	Effusion, Pleural, Unspec
512	5128	Pneumothorax
5150	515	Pneumonitis, Interstitial
5151	5168	Pneumonitis, Interstitial, Desquamative
516	5169	Pneumonopathy, Other Alveolar/Parietoalve
51681	5168	Pneumonitis, Interstitial, Lymphocytic
518	5188	Lung Disease, Other
51880	4954	Aspergillosis, Allergic Bronchopulmonary
51881	5188	Nodule, Pulmonary
51911	5191	Stenosis, Tracheal
51981	5198	Obstruction, Upper Airway
52400	5240	Microgenia

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
52401	5240	Receding Chin (Congenital)
52410	5241	Retrognathism
52411	5241	Asymmetry Of Mandible
52721	5272	Parotitis, Acute
52722	5272	Parotitis, Chronic
52761	5285	Mucocele, Lip
530	5309	Esophagus Disease
53010	5301	Esophagitis, Infectious
53012	5301	Esophagitis, Caustic
53051	5305	Motor Disorder, Non-Specific (Esophagus)
531	53190	Ulcer, Gastric
5311	53110	Ulcer, Gastric, Acute W/Perforation
5314	53140	Ulcer, Gastric, w/Hemorrhage
53142	53140	Ulcer, Stomach, w/Hemorrh Only
5315	53150	Ulcer, Stomach, w/Perfor Only
532	53290	Ulcer, Duodenal
5324	53240	Ulcer, Duodenum (W/Hemorrh Only)
5325	53250	Ulcer, Duodenum (W/Perfor Only)
5329	53290	Duodenal Ulcer w/o Hemorrhage Or Perforat
533	53390	Ulcer, Peptic, Unspec Site
5339	53390	Peptic Ulcer Dis Nos
53501	5350	Gastritis w/Hemorrhage
53561	5353	Duodenitis w/Hemorrhage
53680	5368	Stasis/Retention
53681	5368	Acid Peptic Disease
540	5409	Appendicitis, Acute
550	55090	Hernia, Inguinal
5501	55010	Hernia, Inguinal w/Obstruction W/O Gangre
5509	55090	Hernia, Inguinal w/o Obstruction/Gangrene
55091	55090	Hernia, Inguinal w/o Obstruct Unilateral
5532	55320	Hernia, Ventral
55380	5538	Hernia, Abdominal
555	5559	Enteritis/Ileitis Regional
5561	556	Colitis, Ulcerative
55890	5589	Gastronenteritis
55891	5589	Diarrhea
55892	5589	Colitis, Idiopathic
562	56210	Diverticula Of Intestine
5620	56200	Diverticulum, Small Intestine, Nos
564	5649	Digestive Disorder, Functional, Nec
56490	5648	Motility Disorder, Small Bowel
56491	5369	GI Disorder, Unspec
565	5650	Fissure/Fistula, Anal
567	5679	Peritonitis
5688	56881	Hemoperitoneum
569	5699	Intestine Disorders, Other
56948	56949	Proctitis, Nos
5701	570	Hepatic Failure, Acute
571	5719	Chronic Liver Disease & Cirrhosis
5714	57140	Hepatitis, Chronic
57142	0709	Hepatitis, Chronic, Active, Viral
57221	5722	Encephalopathy, Hepatic
57331	5733	Hepatitis, Drug Induced
57332	5733	Hepatitis, Toxic
57391	5739	Dysfunction, Liver, Antibiotic Associated
5740	57400	Cholelithiasis w/Cholecystitis
5742	57420	Cholelithiasis w/o Cholecystitis
5745	57450	Choledocholithiasis w/o Cholecystitis
575	5759	Gall Bladder Disorder, Other
57510	5751	Cholecystitis, Chronic

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
57610	5761	Cholangitis, Acute
57611	5761	Cholangitis, Chronic Sclerosing
57781	5778	Insufficiency, Pancreatic
57890	5789	Bleeding, Upper GI
57891	5789	Bleeding, Lower GI
57894	5789	Anomaly, Vascular W/Hemorrhage
57895	5789	Bleeding, Occult GI
57896	5789	Bleeding, GI Nos
584	5849	Renal Failure, Acute
5861	586	Renal Failure, W/Uremia
589	5899	Kidney, Small, Unknown Cause
5900	59000	Pyelonephritis, Chronic
5901	59010	Pyelonephritis, Acute
59390	5939	Kidney Disease Nos
59392	5939	Renal Disorder, Unspec
59393	59389	Renal Disorder, Obstructive
59394	5939	Renal Insufficiency
595	5959	Cystitis
599	5999	Urethra/Urinary Tract Disorder, Other
59901	5990	Infection, Urinary Tract, Chronic
59951	5995	Urethrocele/Cystocele, Male
5998	5999	GU Disorder
601	5019	Prostatitis
603	6039	Hydrocele
604	60590	Orchitis & Epididymitis
606	6069	Infertility, Male
6078	60789	Disorders, Penis, Other Spec
608	6089	Genital Organ Disorder, Male, Other
60888	60889	Mass, Scrotal
60892	6089	Pain, Testicular
610	6109	Dysplasia, Mammary, Benign
61010	6101	Mastitis (Cystic), Chronic
61011	6101	Fibrocystic Disease, Breast
611	6119	Breast Disorder, Other
61101	6110	Mastitis
61102	6110	Abscess, Breast
61112	6111	Hyperplasia, Breast
61113	6111	Hypertrophy, Breast
61114	6111	Macromastia
6117	61171	Mastodynia
61180	6118	Deformity, Breast
61181	6118	Ptosis, Breast
61191	6118	Implants/Augmentation Breast
6161	61610	Vaginitis/Vulvovaginitis
61612	61610	Vaginitis, Nos
61613	61610	Vulvovaginitis
61614	61610	Vaginitis, Gardnerella
617	6179	Endometriosis
620	6209	Ovary/Fal Tube/Broad Lig Noninflam Disord
62131	6213	Hyperplasia, Endometrial Adenomatous
62132	6213	Hyperplasia, Endometrial Cystic
625	6259	Pain, Pelvic
62591	6259	Pain, Vaginal
626	6269	Menstruation & Other Bleeding Disorder
62601	6260	Amenorrhea, Primary
62602	6260	Amenorrhea, Secondary
62681	6268	Dysfunction, Menstrual
62711	6271	Bleeding, Postmenopausal w/Hormonal Ther
62712	6271	Bleeding, Postmenopausal w/o Hormon Ther
628	6289	Infertility, Female

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
633	6339	Pregnancy, Ectopic
634	63490	Abortion, Spontaneous
6341	63410	Abortion, Spontaneous, Excessive Hemorrha
635	63590	Voluntary Interruption Of Pregnancy
6373	63730	Abortion, Unspec. Comp By Renal Failure
640	64093	Hemorrhage In Early Pregnancy
6400	64003	Abortion, Threatened
641	64113	Antepart Hemorr, Abrupt Placent & Place
6410	64103	Placenta Previa w/o Hemorrhage
6411	64113	Hemorrhage From Placenta Previa
6420	64293	Pregnancy Complication, Hypertenison DRB & VA
6424	64243	Pre-Eclampsia, Mild
6425	64253	Pre-Eclampsia, Severe
6430	64303	Hyperemesis Gravidarum
644	64403	Labor, Premature
6441	64413	Labor, False
6442	64420	Early Onset Of Delivery
6462	64623	Pregnancy Complication, Renal Disease
6466	64663	Infection, Genitourinary Tract, Pregnancy Related
64661	64763	Pregnancy, Complication, Herpes Genitalis
6467	64673	Pregnancy, Complication, Liver Disorder
64675	64673	Pregnancy, Complication, Hepatitis
6468	64693	Pregnancy Complication, Other
64681	64893	Pregnancy, Complication, Endocrine Disorder
64682	64893	Pregnancy, Complication, Seizure Disorder
64683	64893	Pregnancy, Complication, Asthma
6469	64693	Pregnancy, Complication, Nos
64695	64893	Dermatosis, Pregnancy
64696	64893	Pregnancy, Complication, Pulmonary Disease
64761	64763	Pregnancy, Complication, Other Viral Disease
6480	64803	Pregnancy, Complication, Diabetes
6482	64823	Pregnancy, Complication, Anemia
6486	64863	Pregnancy, Complication, Cardiovascular Disease
6488	64883	Diabetes, Gestational
64891	64893	Pregnancy, Complication, Systemic Lupus Erythemato
64892	64893	Pregnancy, Complication, Gastrointestinal Disease
6522	65223	Breech Presentation W/O Mention Of Versio
6523	65233	Transverse/Oblique Presentation
6530	65303	Abnormality, Major, Bony Pelvis
6537	65373	Fetal Abnormality Causing Disproportion
6542	65423	Cesarean Section, Previous
6545	65453	Incompetent Cervix
655	65583	Fetal Abnormality, Known/Suspected
6553	65530	Fetal Damage Suspected FM Viral Disease I
6561	65613	Isoimmunization, RH
6562	65623	Isoimmunization, Other
6564	65643	Fetal Death In Utero
65655	65653	Intrauterine Growth Retardation
6566	65663	Fetal Growth, Excessive
657	65703	Polyhydramnios/Hydramnios
6580	65803	Oligohydramnios
6581	65813	Premature Rupture Of Membranes
6662	66624	Delayed & Secondary, Postpartum Hemorrhage
66882	66884	Anesthesia Complicatn, Delivery w/Postpart
6712	67123	Thrombophlebitis, Superficial, Preg/Puerp
6732	67324	Pregnancy, Complication, Thromboembolism
674	67494	Complications Of Puerperium
6741	67414	Disruption, Cesarean Wound
6743	67434	Complication, OB Surgical Wounds, Other
675	67594	Breast & Nipple Infections Assoc w/Childbirth

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
6752	67524	Mastitis, Nonpurulent
676	67634	Breast Disorder, Other
68091	6829	Abscess, Pyoderma
68092	6809	Boil/Carbuncle/Furuncle
68093	6809	Furuncle (May Want To Combine With 6809)
681	6819	Cellulitis/Abscess, Finger/Toe
6810	68100	Cellulitis, Finger
6811	68110	Cellulitis, Toe
68112	68111	Paronychia Toe
682	6829	Cellulitis/Abscess
68291	6829	Abscess
6854	7854	Necrosis, Skin
68611	6861	Granuloma, Nos
691	6918	Dermatitis, Atopic
692	6929	Dermatitis, Contact, Nos
6927	69270	Dermatitis, Contact, Solar Radiation
69272	69279	Photosensitive Diseases, Photoallergic
69273	69279	Photosensitive Diseases, Phototoxic
69274	69279	Photosensitive Diseases, Polymorphous Light
69282	69289	Sensitivity, Dyes, Preservatives & Additives
69291	6929	Dermatitis, Contact, Allergic
69292	6929	Dermatitis, Nos
69293	6929	Eczema (Nummular)
69294	6929	Dermatitis, Contact, Unspec Cause
69295	6929	Dermatitis, Contact, Vulva
69530	6953	Rosacea/Perioral Dermatitis
69531	6953	Rhioophyma
69540	6954	Lupus Erythematosus, Discoid
69541	6954	Lupus Erythematosus, Subacute
69587	69589	Granuloma, Annulare
6959	69589	Dermatitis, Exfoliative
696	6961	Psoriasis, Nos
698	6989	Pruritus & Related Conditions
69830	6983	Lichen Simplex, Chronicus
69831	6983	Neurodermatitis, Local
70101	7010	Lichen Sclerosus Et Atrophicus
70102	7010	Morphea
70103	7010	Scleroderma, Linear
70141	7014	Scar, Hypertrophic
70180	7018	Aging Face, Dermatochalasis
70181	7018	Cutis Laxa, Senilis
70182	7018	Elastosis Senilis
70183	7018	Rhytidosis Facialis
70184	7018	Cutis Laxa Abdomen
70185	7018	Rhytidosis, Perioral
70190	7019	Flacid Atrophy, Congenital, Face
70191	7019	Flacid Atrophy, Acquired, Face
70192	7019	Excess or Redundant Skin, Extremities
7020	702	Keratosis, Seborrheic
7021	7011	Keratosis, Other
703	7039	Nail Disease Nec
70381	7038	Onychauxis
704	7038	Hair/Hair Follicle Disease
7040	70400	Alopecia
70480	7048	Folliculitis
70481	7048	Pseudofolliculitis Barbae
70490	7011	Keratosis Pilaris
705	7059	Sweat Gland Disorder
7058	70589	Sweat Gland Disorder, Other
70610	7061	Cyst, Acne

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
70621	7062	Cyst, Pilar
70622	7062	Cyst, Sebaceous
70623	7062	Torre Syndrome (Mult Sebaceous Tumor)
70624	7062	Cyst, Mucous
70625	7062	Cyst, Epidermal, Incl Milia
7065	7062	Cyst
7072	7071	Ulceration Of Foot, Diabetic Associated
7073	7071	Ulceration Of Toe, Diabetic Associated
708	7089	Urticaria
70881	7085	Urticaria, Cholinergic
70882	7088	Urticaria, Recurrent
70883	7088	Urticaria, Acute
70884	7088	Urticaria, Chronic
70885	7088	Urticaria, Physical
70886	7088	Urticaria, Infectious
709	7099	Skin/Subcutaneous Tissue Disorder, Other
70901	7090	Chloasma (Melasma)
70902	7090	Lentigo
70903	7090	Pigmentation, Hyper
70904	7090	Pigmentation, Hypo
70905	7090	Tattoo
70906	7090	Vitiligo
70921	7092	Scar, Adherent
70922	7092	Scar, Atrophic
70923	7092	Capsular Scarring, Capsular (Post-Augmentation)
70924	7092	Scar, Contracted
70925	7092	Scar, Painful
70926	7092	Scar, Face, Nos
70927	7092	Deformity, Facial, Cosmetic, Acne
70981	7098	Chapped Skin
70991	7099	Lymphocytoma Cutis
710	7109	Connective Tissue Disease, Diffuse
71012	7101	Scleroderma, Crest
71091	7108	MCTD/Overlap Syndromes
7110	71100	Arthritis, Septic
7115	0799	Arthritis, Viral
7116	1179	Arthritis, Fungal
7119	71190	Arthritis, Infectious, Unspec
7122	2754	Pseudogout
7128	71280	Arthropathy, Hydroxyapetite
7131	5699	Arthritis, Enteropathic
71321	2827	Arthropathy, Hemoglobinopathy
71322	2860	Arthropathy, Hemophilia
71323	28260	Arthropathy, Sickle Cell
7143	71430	Polyarthritis, Chronic, Juvenile
71434	71430	Arthritis, Juvenile Rheumatoid, Adult
7159	71590	Osteoarthritis, Unspec
71593	7213	Osteoarthritis, Thoracic, Lumbar Spine
71594	71592	Osteoarthritis, Elbow
71599	71598	Arthrosis, Basal Joint
7161	71610	Arthritis, Traumatic
7165	71650	Arthritis, Polarticular, Unspec
7166	71660	Arthritis, Monoarticular, Unspec
7169	71690	Arthropathy, Unspec
717	7179	Derangement, Internal Knee
7178	71789	Derangement, Internal Knee, Other
7181	71810	Joint, Loose Body
7184	71840	Contracture, Joint
71876	71886	Instability, Knee, Chronic
7189	71890	Derangement, Joint, Unspec

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
7190	71900	Hydrarthrosis
71902	71901	Effusion Joint, Shoulder
7191	71910	Hemarthrosis
7192	71920	Synovitis, Villonodular
7194	71940	Arthralgia
71948	71945	Pain, Joint, Back
7195	71950	Joint Stiffness
7199	71990	Joint Disorder
720	7209	Spondylitis, Inflammatory, Unspec
72101	7210	Spondylosis, Cervical W/O Myelopathy
72131	7213	Spondylosis, Lumbosacral
7219	72190	Spondylosis, Unspec Site
72201	7220	Herniated Nucleus Pulposus, C4-5
72202	7220	Herniated Nucleus Pulposus, C5-6
72203	7220	Herniated Nucleus Pulposus, C6-7
72204	7220	Herniated Nucleus Pulposus, Other
72212	72210	Displacement, Lumbar/Sacral Disc
72213	72210	Herniated Nucleus Pulposus, L3-4
72214	72210	Herniated Nucleus Pulposus, L4-5
72215	72210	Herniated Nucleus Pulposus, L5-s1
72216	72210	Herniated Nucleus Pulposus, Other Lumbar
72217	7222	Herniated Nucleus Pulposus, Recurrent
7225	72252	Lumbodorsal Disc Degeneration
72341	7234	Radiculopathy, C5
72342	7234	Radiculopathy, C6
72343	7234	Radiculopathy, C7
72344	7234	Radiculopathy, Other Cervicothoracic
72381	7238	Cervical Facet Syndrome
724	7249	Back Disorder, Other & Unspec
7240	72400	Stenosis, Spinal, Other Than Cervical
72403	72400	Lateral Recess Syndrome
72411	7241	Pain In Thoracic Spine
72421	7242	Pain, Low Back w/o Radiating Symptoms
72422	7242	Pain, Low Back w/Radiating Symptoms
72423	7242	Pain, Low Back
72441	7244	Radiculitis, Thoracic
72442	7244	Radiculopathy, L4
72443	7244	Radiculopathy, L5
72444	7244	Radiculopathy, S1
72445	7244	Radiculopathy, Other L-S
72461	7246	Sacroiliac Dysfunction
726	72690	Peripheral Enthesopath & Allied Syndromes
7261	72610	Rotator Cuff Syndrome
7263	72630	Enthesopathy, Elbow Region
72641	7264	Bursitis, Hand Or Wrist
72668	72669	Iliotibial Band Syndrome
7267	72670	Enthesopathy, Ankle & Tarsus
7269	72690	Enthesopathy, Unspec
72692	72690	Tendinitis
72693	72612	Tendinitis, Bicipital
727	72709	Synovium/Tendon/Bursa Disorder, Other
7270	72700	Synovitis/Tenosynovitis
72707	72700	Tenosynovitis
72708	72709	Synovitis/Tenosynovitis, Elbow
72710	7271	Bunion, 1st Metatarsal
72711	7271	Bunion, 5th Metatarsal
7274	7062	Cyst, Myxioid Cobine With Mucous Cyst
7276	72760	Rupture Of Tendon, Nontraumatic
7281	72819	Myositis Ossificans
72851	7285	Subluxing/Hypermobility Shoulder

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
7287	72879	Fibromatoses, Other
72886	72889	Overuse Syndrome (Soft tissue), Lower Leg
72891	84212	Injury, Gamekeepers, Thumb
729	7299	Soft Tissue Disorder, Other
72961	7296	Retained hardware, Knee
7298	7295	Pain, Extremity (Not Joint)
72983	72989	Upper Extremity Disorder
72984	72989	Lower Extremity Disorder
72991	7299	Musculoskeletal Syndromes Assoc w/Malignancy
72992	7299	Soft Tissue Disorders
7300	73000	Osteomyelitis, Acute
7301	73010	Osteomyelitis, Chronic
7302	73020	Osteomyelitis Nos
73220	7322	Epiphysis, Upper Femoral Slipped
73276	7327	Osteochondritis Dissecans, Knee
73277	7327	Osteochondritis Dissecans, Ankle
7330	73000	Osteoporosis
73311	7331	Fracture, Pathologic, Femoral Shaft
73312	7331	Fracture, Hip, Stress
73313	7331	Fracture, Foot, Stress
73314	7331	Fracture, Leg, Stress
73315	7331	Stress Fracture, Boot Top
73316	7331	Stress Fracture, Pubic Rami
73317	7331	Stress Fracture, Femur, Mid-Shaft
73318	7331	Stress Fracture, Femur, Distal
7332	73320	Bone Cyst
73383	73382	Delayed Union, Lower Leg
73384	73382	Pseudoarthrosis
7339	73390	Bone/Cartilage Disorder, Other & Unspec
73392	7177	Chondromalacia, Knee
73393	73390	Osteopenia
73397	73399	Costochondritis
73398	73399	Sesamoiditis
7367	73679	Deformity, Ankle/Foot, Acquired, Other
73678	73679	Podiatric Conditions
73691	7369	Deformity, Epiphyseal
73696	7366	Deformity, Rotational Knee
73697	73689	Deformity, Rotational Lower Leg
737	7379	Curvature Of Spine
7371	73710	Kyphosis, Acquired
73728	73729	Hyperlordosis
7373	73730	Scoliosis/Kyphoscoliosis
73802	7380	Deformity, Nose, Developmental
73811	7381	Deformity, Face, Acquired
73812	5285	Deformity, Lip, Acquired
73841	7384	Spondylolisthesis, Degen
73842	7384	Spondylolisthesis w/o Lysis
73881	7366	Deformity, Angular Knee
739	7399	Lesion, Nonallopathic, Nec
7410	74100	Spina Bifida w/Hydrocephalus
7419	74190	Spina Bifida w/o Hydroscephalus
74191	74190	Meningomyelocele
7425	74259	Anomaly, Spinal Cord, Other Spec
74255	74259	Tethered Cord
74258	74259	Myelodysplasia
74291	74190	Anomalies, Nervous System, Congenital
74292	7429	Anomaly, Brain, Congenital Nos
7434	74349	Congenital Anomalies Of Anterior Segment
7436	74369	Congenital Anom, Eyelids/Lacrim Sys/Orbit
74408	3888	Atresia, Aural, Acquired

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
74428	74429	Protruding Ears, Congenital
74488	74489	Anomalies, Maxillofacial, Nec
74491	7449	Deformity, Face, Congenital, Nos
745	74519	Anomalies, Bulbus Cordis & Cardiac Septal
7456	74560	Defect, Endocardial Cushion
74652	7466	Prolapse, Mitral Valve w/Regurgitation
7471	74710	Coarctation Of Aorta
7478	74789	Anomaly, Circ Sys, Cong, Other Spec
74780	74789	Aneurysm, Multiple
74782	74781	Aneurysm, Anterior Comm Art
74783	74781	Aneurysm, Posterior Comm Art
74784	74781	Aneurysm, Mid Cerebral Art
74785	74781	Aneurysm, Ant Cerebral Art
74786	74781	Aneurysm, Other ICA
74787	74781	Aneurysm, Basilar Tip
74788	74789	Aneurysm, Other Post Circ
7479	7476	Malformation, Arteriovenous
7490	74900	Cleft Palate
7491	74910	Cleft Lip
7492	74920	Cleft Palate/Lip
7501	75010	Anomalies, Tongue, Other
75091	7509	Anomalies, Oropharyngeal, Nos
75092	7509	Deformity, Lip, Congenital, Nos
75243	75240	Anomaly, Cervix, Congenital
75249	7529	Anomaly, Genitalia Female, Congen, Nos
75291	7529	Anomalies, Genitalia, Male, Congen, Nos
753	7539	Anomalies, Urinary System, Congenital
75311	7531	Polycystic Kidney Disease
75361	7536	Atresia, Congenital, Bladder & Neck
75362	7536	Atresia, Congenital, Urethra
75391	7539	Anomalies, Kidney, Congenital, Nos
7543	75430	Dislocation, Hip, Congenital
75436	75432	Subluxation, Hip, Congenital
7545	75459	Varus Deformity Of Foot
7546	75469	Valgus Deformity Of Foot
75478	75479	Equinus
7556	75569	Anomalies, Lower Limb
75568	75565	Dislocation, Patella, Congenital
75570	75567	Tarsal Coalitions
756	7569	Anomalies, Musculosketel, Other Congent
75601	7560	Pseudo Hypertelorism
75602	7560	Hypertelorism
7561	75610	Anomalies, Spine
75618	75612	Spondylolisthesis W/Lysis
75671	7567	Anomalies Of Skull/Face Bones
75736	75739	Prokeratosis
75737	75739	Hailey-Hailey Disease
75738	75739	Darier's Disease
75761	7576	Hypoplasia, Breast
75791	7579	Nevus (Not Nevocellular), Nos
758	7589	Anomalies, Chromosomal
75921	7592	Lingual Thyroid
75980	7598	Marfan's Syndrome
75981	7598	Defect, Biochemical, Hereditary
76510	7651	Prematurity (Secondary Visual Condition)
76511	7651	Prematurity
778	7789	Integumnt & Temp Reg Cond-Fetus/Newborn
77841	7784	Fever, < Mos of Age
78020	7802	Vasovagal Syncope
78031	7803	Convulsion, Febrile

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
78042	7804	Vertigo
7805	78050	Sleep Disturbance
78092	7809	Pain, Chronic
78094	7809	Amnesia, Transient Global
78095	7809	Amnesia, Nos
78096	7809	Pain, Secondary To Malignancy
781	7819	Nervous/Musculoskeletal System Symptom
78131	7813	Handwriting Problem
78191	7819	Deficit, Sensory, Nec
78192	7819	Neurological Disorder Nec
78193	7819	Neurologic Symptoms, Ill Defined
78194	7819	Deficit, Cortical, Nos
782	7829	Skin Symptoms
78201	7820	Paresthesia
78202	7820	Hyperesthesia
78341	7834	Failure To Grow/Thrive
78342	7834	Short Stature
78401	7840	Headache, Musculoskeletal
78403	7840	Headache, Post-Traumatic
78421	7842	Mass, Neck, Cystic
78422	7842	Mass, Neck, Nos
78431	7843	Aphasia, Broca's
78432	7843	Aphasia, Wernicke's
78433	7843	Aphasia, Conduction
78434	7843	Aphasia, Global
78435	7843	Aphasia, Nos
78436	7843	Mutism
7844	78440	Voice Disorder Nec
78442	78449	Resonatory Problem
78447	78449	Dysphonia
78448	78449	Hoarseness
78451	7845	Dysarthria
78452	7845	Rate Problems
78453	7845	Articulation Disorder
78454	7845	Foreign Accent
78455	7845	Depressed Language Skills
78456	7845	Deaf Speech
78457	7845	Dysphasia
78457	78461	Dyslexia
78468	78469	Apraxia
78491	7849	Tongue Thrusting
78540	7854	Gangrene, Dry, Non-Diabetic
78541	7854	Gangrene, Dry, Diabetic
78542	7854	Gangrene, Moist, Non-Diabetic
78543	7854	Gangrene, Moist, Diabetic
78561	7856	Lymphadenopathy, Cervical
78562	7856	Lymphadenopathy, Inguinal
786	7869	Respiratory System & Other Chest Symptoms
7860	78600	Dyspnea
78604	78609	Wheeze
78631	7863	Hemorrhage, Pulmonary
7865	78650	Pain, Chest
78653	78651	Precordial Catch
788	7889	Urinary System Symptoms
78801	7880	Ureteral Colic
78831	7883	Enuresis
78832	7883	Incontinence, Stress, Male
7886	7881	Difficulty Voiding
789	7899	Abdomen/Pelvis Symptoms
78901	7890	Colic, Infantile

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
78931	7893	Mass, Adnexal
78932	7893	Mass, Pelvic
79060	7906	Hyperglycemia
79061	7906	Hyperuricemia
79191	7919	Urine Test, Sediment Abnormality
79551	V011	Tuberculosis Contact
796	7964	Clinical Findings, Abnormal, Non-Spec
79901	7990	Hypoxemia
7995	7955	Tuberculin Skin Test, Positive
7998	7589	Chromosomal Disorder
79981	7800	Drowsiness
79982	797	Confusion
79983	7807	Weakness
79990	7999	DX/Cond Defer Axis I/II
800	80000	Fracture, Skull Vault
8000	80000	Fracture, Skull, Vault W/O Intracran Inj
801	80100	Fracture, Skull Base
8010	80100	Fracture, Skull, Base W/O Intracran Inj
802	80100	Fracture, Facial Bones
8022	80220	Fracture, Mandible
80241	8024	Fracture, Malar Bone
80242	8024	Fracture, Zygoma
80281	8028	Fracture, Orbit
8030	80300	Fracture, Skull Nos
8050	80500	Fract, Vert Col W/O Spine CD Inj Cer (Closed)
8060	80600	Fract, Vert Col W/ Spin Code Inj Cerv (Closed)
8062	80620	Fract, Vert Col W/Spin Code Inj Thor (Closed)
8070	80700	Fracture, Ribs, Chest Thrauma (Closed)
808	8088	Fracture, Pelvis
8100	81000	Fracture, Clavicle (Closed)
8101	81010	Fracture, Clavicle (Open)
8110	81100	Fracture, Scapula (Closed)
8111	81110	Fracture, Scapula, (Open)
8124	81240	Fracture, Humerus, Lower (Closed)
8130	81300	Fracture, Radius/Ulna, Upper End (Closed)
8134	81340	Fracture, Radius, Distal Third (Closed)
8140	81400	Fracture, Carpal Bones, (Closed)
8160	81600	Fracture, One Or More Phalanges Of Hand
820	8209	Fracture, Femoral Neck
8210	82100	Fracture, Femur (Closed)
82102	82101	Fract, Femoral Shaft, Proximal (Closed)
82103	82101	Fracture, Femoral Shaft, Mid, (Closed)
81104	82101	Fract, Femoral Shaft, Comminuted (Closed)
8212	82120	Fracture, Femur, Lower End, Closed
8215	82100	Fracture, Femur, Unspec
8230	82300	Fracture, Tibial Spine (Closed)
8234	82381	Fracture, Sesamoid, Fibular
8235	82380	Fracture, Sesamoid, Tibial
82361	82390	Fracture, Tibia/Fibula Unspec
8238	82380	Fracture, Lower Leg, Nos (Closed)
825	82520	Fracture, One/More Tarsal & Metatarsal
82526	82526	Fracture, Trans-Talus Dome
82527	82525	Jones-Styloid FX 5th Met
829	8290	Fracture, Nos (Closed)
830	8300	Dislocation, Jaw
831	83100	Dislocation, Shoulder
832	83200	Dislocation, Elbow
833	83300	Dislocation, Wrist
834	83400	Dislocation, Finger
835	83500	Dislocation, Hip

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
836	83650	Dislocation, Knee
83621	8362	Tear Ligament, Ant Cruciate
83622	8362	Tear Ligament, Post Cruciate
839	8398	Dislocation, Site, Nos (Closed)
8390	83900	Dislocation, Cervical, (Closed)
8392	83920	Dislocation, Thoracolumbar, (Closed)
83981	8398	Dislocation, Arm
84091	8409	Strain, Upper Arm
84092	8409	Strain/Overuse, Shoulder
84191	8419	Strain, Forearm
8420	84200	Sprain, Wrist
8421	84210	Sprain, Hand
84392	8439	Strain, Hip
84393	8439	Strain, Thigh
8444	8448	Shin Splints
84491	8449	Strain, Lower Leg
84492	8449	Sprain, Knee
845	84500	Sprain/Strain, Ankle/Foot
8450	84500	Sprain/Strain, Ankle
8451	84510	Sprain/Strain, Foot
848	8489	Sprain/Strain, Site Nos
8487	8489	Laceration, Tendon
84891	8489	Sprain/Strain, Joint (Ligaments)
84892	8489	Sprain/Strain, Muscles & Tendons
850	8509	Concussion, Acute, Nos
8506	8500	Concussion, Cerebral
851	85180	Cerebral Contusion/Laceration
8518	85180	Laceratn & Contusn, Cerebral w/o IC Wound
8520	85200	Hemorrhage Follow Inj, Subarachnoid, Closed
8522	85220	Hemorrhage Follow Inj, Subdural (Hematoma)
8524	85240	Hemorrhage Follow Inj, Epidural (Hematoma)
8526	85220	Hematoma, Subdural
8527	85240	Hematoma, Epidural
8530	85300	Hematoma, Intracranial Follow Inj (Closed)
8532	85300	Hematoma, Intracerebral
854	85400	Intracranial Injury, Unspec
8540	85400	Injury, Intracranial, Closed
8541	85410	Injury, Head (Open)
8542	85410	Craniocerebral Gunshot Wound
8543	85400	Head Trauma (Closed)
860	8604	Pneumothorax/Hemothorax, Traumatic, Nos
8650	86500	Injury, Spleen w/o Open Wound Into Cavity
869	8690	Multiple Trauma, Extreme, Internal
8720	87200	Wound, Open, External Ear w/o Complication
87203	87201	Amputation, Auricular
8721	87210	Wound, Open, External Ear, Complicated
8732	87320	Laceration, Nose
876	8760	Open Wound Of Back
87981	8798	Laceration, Simple (<2 Inch)
87982	8798	Laceration, Simple (>2 Inch)
87987	8798	Wound, Puncture
87988	8798	Wound, Stab
87989	8798	Wound, Gunshot
87991	8799	Amputation, Traumatic, Open Wound
87995	8798	Bite, Animal
8800	88009	Wound, Open, Shoulder/Upper Arm w/o Comp
881	88100	Wound, Open, Elbow/Forearm/Wrist
8810	88100	Wound, Open, Elbow/Forearm/Wrist w/o Comp
882	8820	Wound, Open, Hand, Except Finger(s) Alone
8835	8830	Injury, Soft Tissue, Fingernail

<u>EXTCD</u>	<u>ICD9-CM</u>	<u>DESCRIPTION</u>
885	8850	Amputation, Thumb, Traumatic
886	8860	Amputation Finger(s) Traumatic
8878	8870	Amputation, Hand, Traumatic
8879	8874	Amputation, Arm, Traumatic
890	8900	Wound, Open, Hip/Thigh
900	9009	Injury, Blood Vessels, Head/Neck
9000	90000	Injury, Carotid Artery
90033	7999	Other Unk Cause Morbidity/Mortality
9044	90440	Injury, Popliteal Blood Vessels
910	9108	Injury, Superficial, Face/Neck/Scalp
911	9118	Injury, Superficial, Trunk
91181	9118	Superficial Injury, Perineum
913	9139	Injury, Superficial, Elbow/Forearm/Wrist
914	9148	Injury, Superficial, Hand, Except Finger
916	9168	Injury, Superficial, Hip, Thigh, Leg, Ank
9169	8798	Bite, Non-Venomous Snake
917	9178	Injury, Superficial, Foot & Toe(s)
918	9189	Superficial Injury, Eye & Adnexa
91811	9181	Abrasion, Corneal
919	9198	Inj, Superficial (Inc Abrasion, Blister)
9200	920	Hemtoma, Nasal Septal
921	9219	Contusion Of Eye And Adnexa
92241	9224	Contusion, Vulva
923	9239	Contusion, Upper Limb
9231	92310	Contusion, Elbow/Forearm
9232	92320	Contusion, Upper Limb, Wrist/Hand
924	9249	Contusion, Lower Limb & Unspec Sites
9242	92420	Contusion, Ankle & Foot, Excluding Toe(s)
930	9309	Foreign Body, Eye, External
940	9409	Burn Confined To Eye & Adnexa
9440	94408	Burn, Wrist/Hands, Unspec Degree
945	94500	Burn, Lower Limb
949	9490	Burn, Nos
9496	9490	Burn, Chemical
94971	94800	Burn, Thermal, <5% Body Surface
94972	94810	Burn, Thermal, 6-15% Body Surface
94973	94810	Burn, Thermal, 16% Or More Body Surface
950	9509	Injury To Optic Nerve & Pathways
951	9518	Injury To Other Cranial Nerves (Exc II)
95101	9519	Inj, Cranial Nerve(s) 3-12 (Noniatrogenic)
952	9529	Injury, Spinal Cord, W/O Bone Injury
953	9539	Injury, Nerve Roots & Spinal Plexus
95340	9534	Injury, Brachial Plexus, Traumatic
95341	9534	Injury, Brachial Plexus, Other
955	9559	Injury, Peripheral Nerve(s) Upper Extrem
956	9569	Injury, Peripheral Nerve(s) Lower Extrem
95790	3449	Paralysis, Traumatic Nos
95791	9579	Injury, Peripheral Nerve
95792	9579	Repair, Peripheral Nerve
95880	9588	Compartment Syndrome, Nos
95881	9588	Compartment Syndrome, Acute
95882	9588	Compartment Syndrome, Chronic
959	9599	Injury, Other, Unspec
95900	9590	Trauma, Nose
95901	9590	Trauma, Neck w/Organ Involvement
95902	9590	Trauma, Neck w/o Organ Involvement
95905	47830	Inj, Traumatic/Acute Vocal Cord Paralysis
95906	9590	Trauma, Ear
95971	9597	Injury/Pain, Knee, Nos
95990	9599	Sexual Assault

<u>EXTCD</u>	<u>ICD-9-CM</u>	<u>DESCRIPTION</u>
95991	9599	Suicide Attempt
95992	9599	Injury, Traumatic, Nos
95994	9598	Injury, Other Bone & Joint
977	9779	Overdose, Medicine, Accidental/Deliberate
9775	9779	Ingestion, Accidental
9776	9779	Overdose, Suicide Attempt
980	9809	Toxic Effect, Alcohol
982	9828	Toxic Effect, Solvents Nonpetroleum Based
983	9831	Toxic Eff, Aromatics/Acids/Caustic Alkali
98391	9831	Ingestions, Caustic/Acid
984	9849	Toxic Effect, Lead
987	9879	Toxic Effect, Other Gases, Fumes & Vapors
9880	6931	Allergy, Food, Fish & Shellfish
9889	6931	Allergy, Food, Unspec
989	9899	Toxic Effect, Chemicals Nec
98951	9895	Allergy, Fireant
98952	9895	Hymenoptera Hypersensitivity
98954	9194	Insect Bite/Sting
99002	990	Effects Of Radiation, Unspecified
993	9939	Effects Of Air Pressure
99501	99550	Anaphylaxis, Exercise
99502	9950	Anaphylaxis, Miscellaneous
99521	9952	Drug Hypersensitivity, Aspirin
99522	9952	Drug Hypersensitivity, Sulfite
99523	9952	Drug Hypersensitivity, Penicillin
99524	9952	Drug Hypersensitivity, Radiocontrast Media
99525	9952	Drug Hypersensitivity, Insulin
99582	99581	Parent/Other Adult Abuse/Neglect
99604	99602	Malfunction, Prosthetic Valve, Aortic
99605	99602	Malfunction, Prosthetic Valve, Mitral
99606	99602	Malfunction, Prosthetic Valve, Pulmonic
99607	99602	Malfunction, Prosthetic Valve, Tricuspid
99621	9962	Shunt Malfunction
99641	9964	Pseudarthrosis/Broken Rods
99661	9966	Shunt Infection
99681	9968	Complication, Renal Transplant
997	9979	Complication, Affecting Body System, Nec
9977	9999	Complication, Medical
998	9989	Complicaiton, Surgical Procedure
9982	9973	Pneumothorax, Iatrogenic
99891	9999	Complication, Hemodialysis
99892	9999	Complication, Peritoneal Dialysis
999	9999	Complication, Medical Care
99901	9999	Complication, Vaccination, Nos

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