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**MEDICAL RESOURCE PLANNING: THE NEED TO USE
A STANDARDIZED DIAGNOSTIC SYSTEM**

Christopher G. Blood
Corazon B. Nirona
Leif S. Pederson



Medical Decisions Support Program
Naval Health Research Center
P.O. Box 85122
San Diego, CA 92138-9174

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Summary

Problem

Medical readiness is an integral component of wartime planning. Projection of the anticipated battle injuries and diseases within a theater of operations will allow prepositioning of medical resources.

Objective

DEPMEDS is a Department of Defense initiative designed to project the medical requirements for an operational scenario and package the needed supplies in modular assemblages. The DEPMEDS system is based on 348 Patient Conditions expected to encompass the injuries and diseases likely to be present which require a quantifiable allocation of medical resources. The object of the present study is to determine which hospital admissions do not readily convert to Patient Conditions.

Approach

The Marine Corps Inpatient Medical Data file maintained by the Naval Health Research Center was the source of an extract of inpatient records during the Vietnam conflict. The hospitalization diagnoses which did not readily convert to Patient Condition (PC) Codes were examined and an alternative system encompassing all admissions was investigated.

Results

The multiplicity and specificity of Patient Condition components did not generally conform to the diagnoses system currently in use at Navy inpatient facilities. Some PC criteria could be accommodated using similar yet inexact matches to International Classification of Diseases (ICD-9) diagnoses; other PC criteria were wholly unascertainable. Further, some ICD-9 diagnoses are unaccounted for using the PC system. A system based on ICD-9 classifications and encompassing all admissions was proposed.

Conclusions

Any system projecting the medical requirements of an operational scenario must include all injuries and diseases expected to be incurred. Presently, Navy treatment facilities use the ICD-9 coding schema and battle injury and disease projections should be tied to this format.

**MEDICAL RESOURCE PLANNING: THE NEED TO USE
A STANDARDIZED DIAGNOSTIC SYSTEM**

Programming the medical requirements for a military operation necessitates accurate projections of the battle injuries and diseases expected to be incurred. Military planners are best able to estimate the needed supplies, equipment, and medical personnel if reliable rates of casualty and disease can be predicted. The critical nature of medical preparedness is underscored in several articles detailing the need for combat-ready surgeons and facilities^{1,2,3}.

The Department of Defense has undertaken a quad-service initiative designed to project, and make readily deployable, the equipment and supplies needed to establish treatment facilities within operational theaters. Deployable Medical Systems (DEPMEDS) is a modular system which determines the medical resources needed based on the expected injuries and illnesses⁴. The required supplies are projected from algorithms which allocate resources according to the anticipated frequencies of occurrence within a set of Patient Conditions (PCs)⁵. The PCs, currently numbering in excess of three hundred, and the necessary medical resources are derived from input by all service branches.

A recent investigation retrospectively determined the frequencies of Patient Conditions among U.S. Marines serving in Vietnam⁶. This study indicated that there were 51,976 battle injury hospitalizations and 108,956 inpatient admissions for Disease and Non-Battle Injury (DNBI) causes. Patient condition codes accounted for seventy three percent of the battle injuries and sixty-three percent of the DNBI hospitalizations. The current investigation seeks to: 1) determine which PC criteria do not readily map to the diagnostic coding system used in Navy inpatient treatment facilities; 2) specify which hospitalizations are not accounted for by the Patient Condition system, and 3) recommend a schemata that will differentiate among injuries and diseases yet account for all hospitalizations.

Patient Conditions

The set of Patient Conditions presently under consideration by the Defense Medical Standardization Board comprises 348 injuries and illnesses

likely to present themselves in a theater of operations. The injuries include both combat-induced wounds and non-battle related trauma. Table 1 is a listing of descriptions for the 348 patient conditions. A few PC numbers have been intentionally left blank so that as new disorders arise this system may more easily accommodate them. It can readily be seen from this list that many of the patient conditions are composed of multiple criteria. Likewise, it is also apparent that some PCs are very specific in their descriptions of battle traumas. Both the multiplicity and specificity of patient condition components are typified by PC's 1 and 60: PC 1 is "multiple fragment wound brain, multiple fragment wound chest, sucking chest wound, and pneumohemothorax, and, PC 60 is "multiple fragment wound brain, multiple fragment wound abdomen, shock, and penetrating perforating wound liver." Undoubtedly, projection of very specific cases of trauma allows for the greatest precision in determining needed medical resources. However, the trade-off for such a high degree of detail is that some wounds will not meet the criteria for any one of the patient conditions.

Furthermore, it should be noted that the PC coding schema is quite different than the diagnostic nomenclature in use at Naval Medical facilities. The diagnoses system used at Navy inpatient centers is the International Classification of Diseases, Ninth Revision (ICD-9). For a hospitalization to meet all the criteria of a detailed patient condition it would require multiple diagnoses to have been assigned. This requirement is borne out by Table 2 which delineates which PC components are accommodated by the ICD-9 nomenclature and the numerical diagnoses that correspond to the components. Patient Condition 11, for instance, requires "Multiple Fragment Wound Chest," Pneumohemothorax," and "Wound Spleen open"; therefore, a patient must have three ICD-9 diagnoses to be classified into this PC.

Non-Determinable PC Criteria

In addition to there being many traumas within the PC coding system that require multiple diagnoses, a number of injuries and illnesses specify criteria without ICD-9 equivalents. Some of these PCs have components with similar but not exact ICD-9 parallels, while other PC elements are completely outside the scope of the ICD-9 diagnostic system.

Examples of PC criteria with similar but not exact ICD-9 equivalents are found in PC 24 and PC 25 which call for "soft tissue injury to upper

limbs resulting from fragments" and "multiple nonperforating fragment wounds of skin and soft tissue." The investigation of patient conditions among Marines in Vietnam used the ICD-9 diagnoses "MFW, open wound shoulder/arm," and "MFW superficial injury", respectively as the parallel components. There were numerous instances of similar yet inexact translations from PC component to ICD-9 diagnosis. As in the aforementioned examples, some translation discrepancies are in terminology only. In these cases the ICD-9 description and the patient condition are essentially the same and the treatment resources would not be expected to differ.

Among other patient conditions, however, the mapping to ICD-9 diagnoses was far less precise. By illustration, the difference between PC 75 and PC 76 is that the former stipulates the open wound to the forearm is "severe, requiring major debridement," and PC 76 is "moderate, not requiring major debridement,"; because ICD-9 diagnoses do not indicate severity or treatments, the closest conversions are "with complications" and "without complications." In these instances, it is uncertain whether the resources required for a given patient condition and its concomitant ICD-9 translation would indeed be the same.

Finally, there are numerous PC criteria that simply have no corresponding ICD-9 codes. Some of these are due to patient condition criteria actually being symptoms (PC 34 includes "without focal neurological deficit", for example), which are generally not found in the ICD-9 system. Other PC components not translatable to ICD-9 codes are due to the degree of detail accorded the PCs (patient condition 69 calls for an open wound of arm that is "penetrating, lacerated" while ICD-9 simply indicates whether the wound is "open" or not). These two types of discrepancies should not bear too greatly on the resources required. However, some PC criteria without equivalents could have a significant effect on the medical supplies or equipment needed. This category would include PC 95 for example, defined as "injury lung closed with pneumothorax," which has an ICD-9 parallel, but also states "one lung with pulmonary contusion and acute, severe respiratory distress", which is outside the scope of the ICD-9 description. Complications of traumas such as this would be expected to influence the resources needed to treat the basic condition.

The patient condition criteria not discernible by ICD-9 diagnoses are displayed in Table 3. This listing includes those components which have no ICD-9 equivalencies as well as those with less than exact translations.

ICD-9 Diagnoses Not Converted to Patient Conditions

In addition to there being Patient Conditions that received less than a full accounting in the conversion process, many ICD-9 diagnoses did not map to any of the PCs. While it is the goal of the DEPMEDS project to include only those conditions likely to be present and which require a quantifiable allocation of resources to treat, there were a substantial number of disorders that would be allocated no resources whatsoever with the PC system. Specifically, in the aforementioned Vietnam study there were 13,796 battle traumas as well as 40,077 DNBI hospitalizations among Marines that did not convert to patient condition codes.

The battle injury diagnoses that did not translate to PCs were of two main types: 1) injuries that were multiple and or ill-defined such as "open wounds lower limbs, both multiple" and "fracture of lower limbs/lower with upper limb", and 2) wounds that did not meet the specific criteria within a Patient Condition--the PC system accommodates "fracture tibia and fibula, closed" yet there is no PC that accounts for "fracture tibia and fibula, open". Among the diseases not accounted for, most simply did not fit into any of the patient conditions. Table 4 indicates the combat traumas and corresponding frequencies not tallied among the PCs while Table 5 is a similar listing for diseases and non-battle injuries.

ICD-9 Based Categories

As long as military treatment facilities record hospital admissions as ICD-9 diagnoses there cannot be a direct correspondence to a medical resource allocation system based on a different coding schema. This lack of compatibility can only be remedied by basing the supplies, equipment, and medical personnel needed on the diagnostic system actually used at treatment facilities.

It is not possible to have a disorder category for every combination of diagnoses that might occur. For instance, a casualty might receive diagnoses of a fractured arm, open wound shoulder, injury nerves of arm, and dislocation elbow; to have a resource allocation system based on such a level of detail would require many thousands of potential conditions. Therefore, some traumas must be categorized sacrificing some detail. A

workable system might base needed resources on the primary wounds of hospital admissions with supplies augmented for secondary conditions.

A medical disorder system is proposed which funnels all individual ICD-9 diagnoses into categories of trauma and diseases. This system, 98 categories of battle injuries and 216 DNBI categories, incorporates all primary disorders found in the PC system. Tables 6 and 7 indicate the ICD-9 diagnoses that comprise each diagnostic category. Table 8 is a display of the frequency and percent of total battle injuries accounted for by each combat trauma category among U.S. Marines in Vietnam. The rate of occurrence per 1000 men per day of each battle injury is also shown in Table 8, while Table 9 indicates the frequencies and percentages of secondary battle injury diagnoses. Frequencies, percentages, and rates for the DNBI categories are similarly seen in Tables 10 and 11.

Discussion

Medical resource needs projection is an integral component of the planning for any operational scenario. With insufficient equipment, supplies, and/or medical personnel there would be a higher DOW (Died of Wounds) rate, a greater likelihood that some injuries would be permanently disabling, and less immediate returns to duty among those personnel with diseases and minor injuries.

The concept of projecting medical resource allocations from predicted rates of injuries and disease is a sound one. Accurate battle injury and disease prediction may be best accomplished by using a comparable battle scenario from the past to estimate the medical needs for a future operation.

The system currently in place to record hospital admissions among Navy and Marine Corps personnel uses the International Classification of Diseases - Ninth Revision (ICD-9). More than twelve thousand individual diagnoses exist and a hospitalization record may include as many secondary diagnoses as necessary. As such, there is a virtually limitless number of potential diagnosis combinations that might occur. Consequently, projections of medical resources should be tied to a finite number of primary diagnoses rather than a set of multi-criteria conditions which would allow some hospitalizations to remain unquantified. Use of primary diagnoses, ensures that all possible hospitalizations are considered. With this type of system those admissions which do not require a quantifiable amount of supplies to be allocated may be factored into the resource

algorithms accordingly while at the same time the needed bed space would not be overlooked. Resource projections based on primary diagnoses would require that supplies be supplemented in accordance with the types and numbers of secondary diagnoses anticipated. The International Classification of Diseases system is an accepted standard and is unlikely to be replaced in the near future. While the ICD-9 nomenclature does not include the severity ratings and explicitness of many of the PCs, it is far more comprehensive and should be used in the determination of medical resource allocations.

Current efforts underway at the Naval Health Research Center attempt to determine casualty rates for various operational scenarios. Knowledge of injury and disease rates of past conflicts will enable medical planners to more accurately project rates for future operations.

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TABLE 1. PATIENT CONDITION CODES AND DESCRIPTIONS

<u>PC</u>	<u>PATIENT DESCRIPTION</u>
001	MFW brain and chest with sucking chest wound and pneumothorax
002	MFW brain and abdomen with penetrating, perforating wound, colon
003	MFW brain and abdomen with penetrating, perforating wound, kidney
004	MFW brain and abdomen with penetrating, perforating wound, bladder
005	MFW brain and abdomen with shock and penetrating, perforating wound, spleen
006	MFW brain and abdomen with shock and penetrating, perforating wound, liver
007	MFW brain and lower limbs requiring bilateral above knee amputations
008	MFW chest with pneumothorax and abdomen with penetrating wound, colon
009	MFW chest with pneumothorax and abdomen with penetrating, perforating wound, kidney
010	MFW chest with pneumothorax and abdomen with penetrating, perforating wound, bladder
011	MFW chest with pneumothorax and abdomen with penetrating, perforating wound, spleen
012	MFW chest with pneumothorax and abdomen with penetrating, perforating wound, liver
013	MFW chest with pneumothorax and limbs with fracture and vascular injury
014	MFW abdomen with penetrating, perforating wound of colon and bladder
015	MFW abdomen with penetrating, perforating wound of colon and spleen
016	MFW abdomen with penetrating, perforating wound of colon and liver
017	MFW abdomen and limbs with penetrating, perforating wound of colon and open fracture and neurovascular injury of salvageable lower limb

PCPATIENT DESCRIPTION

- 018 MFW abdomen and pelvis with penetrating, perforating wound of liver and kidney
- 019 MFW abdomen and pelvis with penetrating, perforating wounds of spleen and bladder
- 020 MFW abdomen, pelvis, limbs, with fracture and neurovascular injury, limb salvageable, and penetrating wound, kidney
- 021 MFW abdomen, pelvis, limbs, without fracture or neurovascular injury, and penetrating, perforating wound, bladder
- 022 MFW abdomen and lower limbs, with fracture and nerve injury, with penetrating wound of spleen
- 023 MFW abdomen and limbs, without fracture or nerve injury, with penetrating wound of liver
- 024 MFW chest with pneumohemothorax, soft tissue injury to upper limbs, and penetrating wound of brain
- 025 MFW chest with pneumohemothorax, soft tissue injury to upper limbs, and abdomen, with wound of colon
- 026 MFW chest with pneumohemothorax, pelvis and abdomen, with wound of colon and bladder
- 027 MFW abdomen and chest with multiple organ damage
- 028 Multiple, nonperforating fragment wounds of skin and soft tissue
- 029
- 030
- 031 Cerebral concussion, closed, with/without nondepressed linear skull fracture severe - loss of consciousness from 2 - 12 hours
- 032 Cerebral concussion, closed, with/without nondepressed linear skull fracture moderate - loss of consciousness less than 2
- 033 Cerebral contusion, closed, with/without nondepressed linear skull fracture severe - loss of consciousness greater than 24 hours, with focal neurological deficit

PC

PATIENT DESCRIPTION

- 034 Cerebral contusion, closed, with/without nondepressed linear skull fracture moderate - loss of consciousness from 12 - 24 hours, without focal neurological deficit
- 035 Cerebral contusion, closed, with intracranial hematoma, with/without nondepressed linear skull fracture severe - large hematoma (including epidural hematoma) with rapidly deteriorating comatose patient
- 036 Cerebral contusion, closed, with/without nondepressed linear skull fracture severe - loss of consciousness greater than 24 hours, with/without focal neurological deficit
- 037 Cerebral contusion, closed, with depressed skull fracture severe - with associated intracerebral hematoma and/or massive depression
- 038 Cerebral contusion, closed, with depressed skull fracture moderate - no associated hematoma or significant effect from depression
- 039 Cerebral contusion with open skull fracture severe - with intracranial fragments and/or depressed skull fracture
- 040 Cerebral contusion with open skull fracture moderate - without intracranial fragments and/or depressed skull fracture
- 041 Wound, scalp, open without cerebral injury or skull fracture severe - scalped with avulsion of tissue
- 042 Wound, scalp, open without cerebral injury or skull fracture moderate - scalp laceration
- 043 Fracture, facial bones, closed, exclusive of mandible, severe - multiple fractures
- 044 Fracture, facial bones, closed, exclusive of mandible, moderate - single fracture
- 045 Wound, face, jaws, an neck, open, lacerated with associated fractures, excluding spinal fractures, severe - with airway obstruction
- 046 Wound, face, jaws, and neck, open, lacerated with associated fractures, excluding spinal fractures, moderate - without airway obstruction
- 047 Wound, face and neck, open, lacerated, contused without fractures, severe - with airway obstructions and/or major vessel involvement

PCPATIENT DESCRIPTION

- 048 Wound, face and neck, open, lacerated, contused without fractures, moderate - without airway obstruction or major vessel involvement
- 049 Fracture, mandible, with/without oral laceration, without airway involvement, unstable, requiring open reduction
- 050 Fracture, mandible, with/without oral laceration, without airway involvement, mild displacement, stable
- 051 Eye wound, severe - loss of intraocular fluid, with/without retinal detachment, eye not salvageable
- 052 Eye wound, lacerated, penetrated with retinal injury, eye salvageable
- 053 Eye wound, lacerated, moderate - without retinal detachment or retinal injury, no foreign body retained, without loss of vitreous fluid, patient has hyphema, eye salvageable
- 054 Eye wound, chemical burn
- 055 Wound, tympanic membrane, perforated, lacerated, ruptured, severe - involvement of middle ear ossicles
- 056 Wound, tympanic membrane, perforated, lacerated, ruptured, moderate - involvement of drum only
- 057 Fracture, spine, closed, without cord damage, unstable lesion
- 058 Fracture, spine, closed, without cord damage, stable lesion
- 059 Fracture, spine, closed, with cord damage, cervical spine with respiratory involvement
- 060 Fracture, spine, closed, with cord damage, below cervical spine (progressive)
- 061 Fracture, spine, open, with cord damage, cervical spine with respiratory distress
- 062 Fracture, spine, open, with cord damage, below cervical spine (progressive)
- 063
- 064 Fracture, clavicle, closed, all cases

PCPATIENT DESCRIPTION

- 065 Wound, shoulder girdle, open, with bone injury, severe - joint involvement
- 066 Wound, shoulder girdle, open, with bone injury, moderate -- no joint involvement
- 067 Fracture, humerus, closed, upper shaft, all cases
- 068 Wound, upper arm, open, penetrating, lacerated, without fracture, severe - with nerve injury
- 069 Wound, upper arm, open, penetrating lacerated, without fracture, severe - with vascular injury
- 070 Wound, upper arm, open, penetrating, lacerated, without fracture, moderate - without nerve or vascular injury
- 071 Wound, upper arm, open with fractures and nerve and vascular injury, arm non-salvageable
- 072 Wound, upper arm, open with fractures and nerve injury, no vascular injury, arm salvageable
- 073 Fracture, radius and ulna, closed, severe - shafts of bones
- 074 Fracture, radius and ulna, closed, moderate - colles fracture
- 075 Wound, forearm, open, lacerated, penetrating, without bone, nerve or vascular injury, with major loss of muscle tissue, severe - requiring major debridement
- 076 Wound, forearm, open, lacerated, penetrating, without bone, nerve or vascular injury, moderate - not requiring major debridement
- 077 Wound, forearm, open, lacerated, penetrating, with fracture and with nerve and vascular injury, forearm not salvageable
- 078 Wound, forearm, open, lacerated, penetrating, with fracture and with nerve and vascular injury, forearm salvageable
- 079 Fracture, hand or fingers, closed, severe - requiring closed reduction
- 080 Fracture, hand and/or fingers, closed, moderate - not requiring closed reduction

PCPATIENT DESCRIPTION

- 081 Wound, hand and/or fingers, open, lacerated without fractures, severe - superficial and deep tendon involvement
- 082 Wound, hand and/or fingers, open, lacerated without fractures, moderate - no tendon involvement or limited to sublimis tendon involvement
- 083 Wound, hand, open, lacerated, contused, crushed, with fracture(s), all cases - involving fractures of carpals and/or metacarpals
- 084 Wound, fingers, open, lacerated, contused, crushed, with fracture(s) of phalangeals, requiring rehabilitation
- 085 Wound, fingers, open, lacerated, contused, crushed, with fracture(s) of phalangeals, not requiring rehabilitation
- 086 Crush injury, upper extremity, severe - limb not salvageable
- 087 Crush injury, upper extremity, moderate - limb salvageable
- 088 Dislocation/fracture, elbow, closed, acute
- 089 Amputation, hand, traumatic, complete, all cases
- 090 Amputation, forearm, traumatic, complete, all cases
- 091 Amputation, full arm, traumatic, complete, all cases
- 092
- 093 Fracture, rib, closed, severe - multiple fractures
- 094 Fracture, rib, closed, moderate - single fracture
- 095 Injury, lung, closed (blast, crush) with pneumothorax, severe - one lung with pulmonary contusion and acute, severe respiratory distress
- 096 Injury, lung, closed (blast, crush) with pneumothorax, moderate - one lung with pulmonary contusion and respiratory distress
- 097 Wound, thorax (anterior or posterior), open, superficial, lacerated, contused, abraded, avulsed, requiring major debridement
- 098 Wound, thorax (anterior or posterior), open, superficial, lacerated, contused, abraded, avulsed, not requiring major debridement

PC

PATIENT DESCRIPTION

- 099 Wound, thorax (anterior or posterior), open, penetrating, with associated rib fractures and pneumohemothorax, acute, severe respiratory distress
- 100 Wound, thorax (anterior or posterior), open, penetrating, with associated rib fractures and pneumohemothorax, moderate respiratory distress
- 101 Wound, heart, open, penetrating, perforating, lacerating to include tamponade
- 102 Wound, abdominal wall (anterior or posterior), lacerated, abraded, contused, avulsed without entering abdominal cavity, severe - requiring major debridement
- 103 Wound, abdominal wall (anterior or posterior), lacerated, abraded, contused, avulsed without entering abdominal cavity, not requiring major debridement
- 104 Wound, liver, closed, acute (crush, fracture), major liver damage
- 105 Wound, liver, closed, acute (crush, fracture), minor liver damage
- 106 Wound, spleen, closed, acute (crush, fracture), all cases
- 107 Wound, abdominal cavity, open, with lacerating, penetrating, perforating wound to the large bowel
- 108 Wound, abdominal cavity, open, with lacerating, penetrating, perforating wound to the small bowel, without major or multiple resections
- 109 Wound, abdominal cavity, open, with penetrating, perforating wound of liver, major damage
- 110 Wound, abdominal cavity, open, with penetrating, perforating abdominal wound with lacerated liver
- 111 Wound, abdominal cavity, open, with penetrating, perforating wound of spleen
- 112 Wound, abdominal cavity, open, with lacerated, penetrated, perforated wound with shattered kidney

PCPATIENT DESCRIPTION

- 113 Wound, abdominal cavity, open, with lacerated, penetrating, perforating wound with lacerated kidney, initially repaired, but subsequent nephrectomy
- 114 Wound, abdominal cavity, open, with lacerated, penetrating, perforating wound, kidney, moderate - kidney salvageable
- 115 Wound, abdominal cavity, open, with lacerated, penetrating, perforating wound with shattered bladder
- 116 Wound, abdominal cavity, open, with lacerated, penetrating, perforating wound with lacerated bladder
- 117 Wound, buttocks, severe - open, lacerated, penetrating, perforating, and avulsed
- 118 Wound, buttocks, moderate - open, lacerated, contused and abraded
- 119 Displaced fracture of pelvis, closed, with associated soft tissue damage and pelvic organ damage
- 120 Non-displaced fracture of pelvis, closed, with associated soft tissue damage
- 121 Wound, abdomen, open, with pelvic fracture and penetrating, perforating wounds to multiple pelvic structures (male or female)
- 122 Wound, abdomen, open, with pelvic fracture and penetrating, perforating wounds to pelvic colon only (male or female)
- 123 Wound, external genitalia, male, severe - lacerated, avulsed, crushed
- 124 Wound, external genitalia, male, moderate - abraded, contused
- 125 Wound, external genitalia, female, severe - lacerated, avulsed, crushed
- 126 Wound, external genitalia, female, moderate - abraded, contused
- 127
- 128 Fracture, closed, femur, shaft, all cases
- 129 Wound, thigh, open, without fracture, nerve or vascular injury, requiring major debridement

<u>PC</u>	<u>PATIENT DESCRIPTION</u>
130	Wound, thigh, open, without fracture, nerve or vascular injury, not requiring major debridement
131	Wound, thigh, open, lacerated, penetrating, perforating, with fracture and nerve/vascular injury, limb not salvageable
132	Wound, thigh, open, lacerated, penetrating, perforating, with fracture and nerve injury, limb salvageable
133	Wound, thigh, open, lacerated, penetrating, perforating, with fracture and vascular injury, limb salvageable
134	Wound, knee, open, lacerated, penetrating, perforating, with joint space penetration, shattered knee
135	Wound, knee, open, lacerated, penetrating, perforating, with joint space penetration, articular cartilage damage, no bone injury
136	Wound, knee, open, lacerated, penetrating, perforating, with joint space penetration, no bone or articular cartilage injury
137	Fracture, closed, tibia and fibula, shaft, all cases
138	Wound, lower leg, open, lacerated, penetrating, perforating, without fractures, requiring major debridement
139	Wound, lower leg, open, lacerated, penetrating, perforating, without fractures, not requiring major debridement
140	Wound, lower leg, open, lacerated, penetrating, perforating, with fracture and nerve/vascular injury, limb not salvageable
141	Wound, lower leg, open, lacerated, penetrating, perforating, with fracture and nerve injury, limb salvageable
142	Wound, lower leg, open, lacerated, penetrating, perforating, with fracture and vascular injury, limb salvageable
143	Fracture, ankle/foot, closed, displaced, requiring reduction
144	Fracture, ankle/foot, closed, nondisplaced, not requiring reduction
145	Wound, ankle, foot, toes, open, lacerated, contused, without fractures, but requiring major debridement

PCPATIENT DESCRIPTION

- 146 Wound, ankle, foot, toes, open, lacerated, contused, without fractures, not requiring major debridement
- 147 Wound, ankle, foot, toes, open, penetrating, perforating, with fractures and nerve/vascular injury, limb not salvageable
- 148 Wound, ankle, foot, toes, open, penetrating, perforating, with fractures and nerve injury, limb salvageable
- 149 Wound, ankle, foot, toes, open penetrating, perforating, with fractures and vascular injury, limb salvageable
- 150 Crush injury, lower extremity, limb not salvageable
- 151 Crush injury, lower extremity, limb salvageable
- 152 Amputation, foot, traumatic, complete, all cases
- 153 Amputation, below knee, traumatic, complete, all cases
- 154 Amputation, above knee, traumatic, complete
- 155 Amputation, traumatic, complete, requiring hip disarticulation
- 156
- 157 Burn, thermal, full thickness, lower extremities and genitalia, greater than 30% but less than 40% of total body area involved
- 158 Burn, thermal, full thickness, trunk, greater than 20% but less than 30% of total body area involved
- 159 Burn, thermal, full thickness, lower extremity and genitalia, greater than 15% but less than 30% of total body area involved
- 160 Burn, thermal, full thickness, upper extremities, greater than 10% but less than 20% of total body area involved
- 161 Burn, thermal, full thickness, trunk, greater than 10% but less than 20% of total body area involved
- 162 Burn, thermal, full thickness, head and neck, greater than 5% but less than 10% of total body area with eye involvement
- 163 Burn, thermal, full thickness, upper extremity, less than 10% of total body area involved

PCPATIENT DESCRIPTION

- 164 Burn, thermal, full thickness, head and neck, less than 5% of total body area and no eye involvement
- 165 Burn, thermal, partial thickness, lower extremities and genitalia, greater than 30% but less than 40% of total body area involved
- 166 Burn, thermal, partial thickness, trunk, greater than 20% but less than 30% of total body area involved
- 167 Burn, thermal, partial thickness, lower extremity and genitalia, greater than 15% but less than 30% of total body area involved
- 168 Burn, thermal, partial thickness, upper extremities, greater than 10% but less than 20% of total body area involved
- 169 Burn, thermal, partial thickness, trunk, greater than 10% but less than 20% of total body area involved
- 170 Burn, thermal, partial thickness, head and neck, greater than 5% but less than 10% of total body area and/or eye involvement
- 171 Burn, thermal, partial thickness, upper extremity, less than 10% of total body area involved
- 172 Burn, thermal, partial thickness, head and neck, less than 5% of total body area and no eye involvement
- 173 Burn, thermal, superficial, lower extremities and genitalia, greater than 30% but less than 40% of total body area involved
- 174 Burn, thermal, superficial, trunk, greater than 20% but less than 30% of total body area involved
- 175 Burn, thermal, superficial, lower extremity and genitalia, greater than 15% but less than 30% of total body area involved
- 176 Burn, thermal, superficial, upper extremities, greater than 10% but less than 20% of total body area involved
- 177 Burn, thermal, superficial, trunk, greater than 10% but less than 20% of total body area involved
- 178 Burn, thermal, superficial, head and neck, greater than 5% but less than 10% of total body area and/or eye involvement

PCPATIENT DESCRIPTION

- 179 Burn, thermal, superficial, upper extremity, less than 10% of total body area involved
- 180 Burn, thermal, superficial, head and neck, less than 5% of total body area and no eye involvement
- 181 Burns, phosphorous (WP), all cases
- 182
- 183
- 184 Dislocation, temporomandibular joint, subluxation without fracture, chronic, requiring correction
- 185 Dislocation, temporomandibular joint, subluxation without fracture, acute, initial injury
- 186 Intervertebral disc disorders with nerve root compression, resistant bed rest/traction
- 187 Intervertebral disc disorders with nerve root compression, responding to bed rest/traction
- 188 Strain, lumbosacral, sacroiliac joint, chronic, all cases
- 189 Strains and sprains, sacroiliac region, severe - non-ambulatory
- 190 Strains and sprains, sacroiliac region, moderate - ambulatory
- 191 Dislocation, shoulder, closed, acute, all cases
- 192 Dislocation, elbow, closed, acute
- 193 Tenosynovitis, elbow, wrist, shoulders, etc.
- 194 Dislocation, hand or wrist, closed, acute
- 195 Dislocation, hand, wrist, fingers, closed, acute, fingers
- 196 Sprain, wrist, closed, acute, all cases
- 197 Sprain, thumb, closed, acute, severe
- 198 Sprain, fingers, closed, acute, moderate - no thumb involvement

<u>PC</u>	<u>PATIENT DESCRIPTION</u>
199	Dislocation, hip, closed, acute, all cases
200	Tear, ligaments, knee, acute, complete rupture
201	Tear, ligaments, knee, acute, incomplete rupture
202	Internal derangement of knee, chronic, with torn meniscus and/or ligament laxity
203	Chondromalacia
204	Sprain, ankle, closed, acute, with complete ligament rupture
205	Sprain, ankle, closed, acute, grade 2, incomplete ligament rupture
206	Dislocation, toes, closed, acute, all cases
207	Trench foot, immersion foot, severe - vesicle formation
208	Trench foot, immersion foot, moderate - no vesicle formation
209	Chilblains, all cases
210	Frostbite, full skin thickness or deeper involvement
211	Frostbite, less than full skin thickness
212	Hypothermia, all cases
213	Heat stroke
214	Heat exhaustion
215	Heat cramps, all cases
216	Blisters, hand, fingers, foot, toes, due to friction, acute, moderate - all cases
217	Insect bites and stings (unspecified body area) with systemic symptoms and/or respiratory difficulty
218	Insect bites and stings (unspecified body area), moderate - localized symptoms
219	Animal bites and rabies exposure

PCPATIENT DESCRIPTION

- 220 Near drowning
- 221 Toxic inhalation
- 222
- 223
- 224 Appendicitis, acute, with perforation, rupture, peritonitis
- 225 Appendicitis, acute, without perforation, rupture, peritonitis
- 226 Inguinal hernia, complicated, direct or indirect, sliding, incarceration of bowel
- 227 Inguinal hernia, uncomplicated, direct or indirect, no sliding, no incarceration of bowel or bladder
- 228 Boils, furuncles, pyoderma, requiring surgery
- 229 Pilonidal cyst/abscess, requiring major excision
- 230 Peptic ulcer, gastric or duodenal, penetrating and/or perforating
- 231 Hemorrhoidal disease
- 232 Cholecystitis with cholelithiasis, all cases
- 233 Facial cellulitis and infection, involvement of facial spaces, sinuses and/or salivary glands, airway involvement
- 234 Facial cellulitis and infection, involvement of facial spaces, sinuses and/or salivary glands, no airway obstruction
- 235 Cellulitis, involving face or weight bearing areas
- 236 Cellulitis, other than face or weight bearing areas
- 237 Pilonidal cyst/abscess, requiring minor incision
- 238 Ingrown toenails, bilateral, with secondary infections unresolvable at echelon 2
- 239 Ingrown toenails, without secondary infection

<u>PC</u>	<u>PATIENT DESCRIPTION</u>
240	Eczema, dermatitis, seborrheic, contact, others, affecting weight bearing or pressure areas
241	Eczema, dermatitis, seborrheic, contact, others, not affecting weight bearing areas
242	Boils, furuncles, pyoderma, not requiring surgery
243	Dermatophytosis, severe - affecting feet
244	Dermatophytosis, all other cases
245	Pediculosis, all cases
246	Scabies, all cases
247	Herpes simplex and zoster, without encephalitis, all types, all cases
248	Hyperhydrosis, all cases
249	Blepharitis, all cases
250	Conjunctivitis, severe - all cases
251	Conjunctivitis, moderate - all cases
252	Trachoma, all cases
253	Corneal ulcer
254	Corneal abrasion
255	Iridocyclitis, acute, marked visual impairment
256	Iridocyclitis, acute, minimal visual impairment
257	Refraction and accommodation disorders, refraction required
258	Refraction and accommodation disorders, replacement of spectacles required
259	Otitis externa, all cases
260	Otitis media, acute, suppurative, all cases
261	Mastoiditis, chronic, all cases

<u>PC</u>	<u>PATIENT DESCRIPTION</u>
262	Hearing impairment
263	
264	Allergic rhinitis, all cases
265	Upper respiratory infections, acute, all cases
266	Bronchitis, acute, all cases
267	Asthma, with disabling symptoms or repeated attacks
268	Asthma, other cases
269	Adult respiratory distress syndrome, severe
270	Adult respiratory distress syndrome, moderate
271	Food poisoning, staphylococcal, disabling symptoms
272	Food poisoning, staphylococcal, moderate symptoms
273	Diarrheal disease, severe
274	Diarrheal disease, moderate
275	Gastritis, acute, all cases
276	Peptic ulcer, gastric or duodenal, uncomplicated
277	Regional ileitis, disabling symptoms, unresponsive to treatment
278	Regional ileitis, responds to treatment
279	Helminthiasis, all cases
280	Intracranial hemorrhage, spontaneous, nontraumatic, severe - comatose or semicomatose with possible respiratory distress without associated hematoma
281	Intracranial hemorrhage, spontaneous, nontraumatic, moderate - awake without respiratory distress or severe neurologic deficit
282	Essential hypertension
283	Ischemic heart disease

<u>PC</u>	<u>PATIENT DESCRIPTION</u>
284	Phlebitis, deep vein involvement
285	Phlebitis, superficial vein involvement
286	Sexually transmitted diseases (STD), genital ulcers and/or adenopathy
287	Sexually transmitted diseases (STD), complicated
288	Sexually transmitted diseases (STD), urethritis
289	Glomerulonephritis, acute
290	Glomerulonephritis, chronic
291	Pyelonephritis, acute, no obstruction
292	Nephrotic syndrome, all cases
293	Ureteral calculus, not causing obstruction
294	Epididymitis, cystitis, prostatitis, acute, all cases
295	Balanoposthitis, all cases
296	Pyelonephritis, acute, secondary to obstruction
297	Ureteral calculus, causing obstruction, impacted
298	
299	Migraine, all cases
300	Meningo-encephalitis, complicated
301	Meningo-encephalitis, uncomplicated
302	Mumps, all cases
303	Infectious mononucleosis, all cases
304	Hepatitis, infectious, viral, all cases
305	Pancreatitis, acute, all cases
306	Cirrhosis, severe - hemorrhagic complications

<u>EC</u>	<u>PATIENT DESCRIPTION</u>
307	Cirrhosis, moderate - no hemorrhage
308	Malaria, severe - all species
309	Malaria, moderate - all species
310	Febrile illness, acute, severe - except malaria and pneumonia
311	Febrile illness, acute, moderate
312	Cutaneous ulcers, including leishmaniasis
313	Joint disorders, including septic
314	Motion sickness
315	Diabetes mellitus
316	Thyroid disorder
317	Anemia, all cases
318	Schistosomiasis, all cases
319	Neoplasms, malignant
320	Neoplasms, benign
321	Psychosis
322	Conduct disorders
323	Non-psychotic mental disorders
324	Alcohol dependency, severe - impending or actual DTs
325	Alcohol dependency syndrome, moderate
326	Alcohol misuse, simple intoxication
327	Drug dependency (other than alcohol), severe
328	Drug misuse (other than alcohol), severe - atypical, no dependency
329	Drug misuse (other than alcohol), mild or moderate

PC

PATIENT DESCRIPTION

330

331

332 Stress reaction, severe - unresponsive to treatment

333 Stress reaction, severe - delayed improvement

334 Stress reaction, severe - moderate

335 Stress reaction, moderate

336 Stress reaction, acute, moderate-mild

337 Stress reaction, acute, mild

338

339

340 Dysfunctional uterine bleeding

341 Dysmenorrhea, amenorrhea

342 Pelvic inflammatory disease (PID) all cases

343 Cervicitis, endocervicitis, with symptomatic leukorrhea

344 Vulvovaginitis

345 Tubal pregnancy, impending rupture/rupture

346 Tubal pregnancy, not ruptured

347 Abortion, spontaneous with hemorrhage

348 Pregnancy, uncomplicated

TABLE 2. PATIENT CONDITION CODES AND CONSTITUENT ICD-9 DIAGNOSES

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9 CODES</u>
MULT FRAG WOUND BRAIN	1	851XX 854XX 90700
MULT FRAG WOUND CHEST	1	875XX 90840
PNEUMOHEMOTHORAX	1	860XX
MULT FRAG WOUND BRAIN	2	851XX 854XX 90700
WOUND COLON OPEN	2	86350 86351 86352 86353 86354
MULT FRAG WOUND BRAIN	3	851XX 854XX 90700
WOUND KIDNEY OPEN	3	86610 86611 86612 86613
MULT FRAG WOUND BRAIN	4	851XX 854XX 90700
OPEN WOUND BLADDER	4	86710
MULT FRAG WOUND BRAIN	5	851XX 854XX 90700
WOUND SPLEEN OPEN	5	86510 86511 86512 86513 86514 86519
MULT FRAG WOUND BRAIN	6	851XX 854XX 90700
WOUND LIVER OPEN	6	86410 86411 86412 86413 86414 86419
MULT FRAG WOUND BRAIN	7	851XX 854XX 90700
OPEN WOUND LOWER LIMB MULT	7	894XX
AMPUTATION LEGS BILATERAL	7	89760 89770
MULT FRAG WOUND CHEST	8	875XX 90840
PNEUMOHEMOTHORAX	8	860XX
WOUND COLON OPEN	8	86350 86351 86352 86353 86354
MULT FRAG WOUND CHEST	9	875XX 90840
PNEUMOHEMOTHORAX	9	860XX
WOUND KIDNEY OPEN	9	86610 86611 86612 86613

*

ICD9 diagnostic codes ending in XX represent entire range of five digit codes starting with the shown first three numbers.

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
MULT FRAG WOUND CHEST	10	875XX	90840
OPEN WOUND BLADDER	10	86710	
PNEUMOHEMOTHORAX	10	860XX	
MULT FRAG WOUND CHEST	11	875XX	90840
PNEUMOHEMOTHORAX	11	860XX	
WOUND SPLEEN OPEN	11	86510	86511 86512 86513 86514 86519
MULT FRAG WOUND CHEST	12	875XX	90840
PNEUMOHEMOTHORAX	12	860XX	
WOUND LIVER OPEN	12	86410	86411 86412 86413 86414 86419
MULT FRAG WOUND CHEST	13	875XX	90840
PNEUMOHEMOTHORAX	13	860XX	
FRACTURE UPPER LIMB	13	818XX	
MULT FRAG WOUND			
OPEN WOUND BLADDER	14	86710	
WOUND COLON OPEN	14	86350	86351 86352 86353 86354
MULT FRAG WOUND			
WOUND COLON OPEN	15	86350	86351 86352 86353 86354
WOUND SPLEEN OPEN	15	86510	86511 86512 86513 86514 86519
MULT FRAG WOUND			
WOUND COLON OPEN	16	86350	86351 86352 86353 86354
WOUND LIVER OPEN	16	86410	86411 86412 86413 86414 86419
MULT FRAG WOUND			
OPEN WOUND LOWER LIMB MULT	17	894XX	
INJURY NERVES LOWER LIMBS	17	95600	95610 95620 95640 95650 95690 95630
INJURY NERVES LOWER LIMBS	17	90750	
WOUND COLON OPEN	17	86350	86351 86352 86353 86354
FRACTURE LOWER LIMB	17	827XX	
MULT FRAG WOUND			
WOUND LIVER OPEN	18	86410	86411 86412 86413 86414 86419
WOUND KIDNEY OPEN	18	86610	86611 86612 86613

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9 CODES</u>
MULT FRAG WOUND		
OPEN WOUND BLADDER	19	86710
WOUND SPLEEN OPEN	19	86510 86511 86512 86513 86514 86519
MULT FRAG WOUND		
OPEN WOUND LOWER LIMB MULT	20	894XX
INJURY NERVES LOWER LIMBS	20	95600 95610 95620 95640 95650 95690 95630
INJURY NERVES LOWER LIMBS	20	90750
WOUND KIDNEY OPEN	20	86610 86611 86612 86613
FRACTURE LOWER LIMB	20	827XX
MULT FRAG WOUND		
OPEN WOUND BLADDER	21	86710
OPEN WOUND LOWER LIMB MULT	21	894XX
MULT FRAG WOUND		
OPEN WOUND LOWER LIMB MULT	22	894XX
INJURY NERVES LOWER LIMBS	22	95600 95610 95620 95640 95650 95690 95630
INJURY NERVES LOWER LIMBS	22	90750
WOUND SPLEEN OPEN	22	86510 86511 86512 86513 86514 86519
FRACTURE LOWER LIMB	22	827XX
MULT FRAG WOUND		
OPEN WOUND LOWER LIMB MULT	23	894XX
WOUND LIVER OPEN	23	86410 86411 86412 86413 86414 86419
MULT FRAG WOUND BRAIN	24	851XX 854XX 90700
MULT FRAG WOUND CHEST	24	875XX 90840
OPEN WND SHOULDER/UPPER ARM	24	884XX
PNEUMOHEMOTHORAX	24	860XX
MULT FRAG WOUND CHEST	25	875XX 90840
OPEN WND SHOULDER/UPPER ARM	25	884XX
PNEUMOHEMOTHORAX	25	860XX
WOUND COLON CLOSED	25	86340 86341 86342 86343 86344 86345 86346
WOUND COLON CLOSED	25	86349

DESCRIPTION	PC	ICD9	CODES
MULT FRAG WOUND CHEST	26	875XX	90840
OPEN WOUND BLADDER	26	86710	
PNEUMOHEMOTHORAX	26	860XX	
WOUND COLON OPEN	26	86350	86351 86352 86353 86354
MULT FRAG WOUND CHEST	27	875XX	90840
MULTIPLE ORGAN DAMAGE	27	862XX	868XX 869XX 90800
SUPERFICIAL MULT FRAG WOUNDS	28	90620	910XX 911XX 912XX 913XX 914XX 915XX
SUPERFICIAL MULT FRAG WOUNDS	28	916XX	917XX 918XX 919XX
CEREB CONCU LOSS CONSC < 24	31	85010	85020 85050
CEREB CONCU LOSS CONSC < 24	32	85010	85020 85050
FRAC SKUL CLS LOSS CON < 24	32	80122	80123 80126 80132 80133 80136 80142
FRAC SKUL CLS LOSS CON < 24	32	80143	80146 80302 80303 80306 80312 80313
FRAC SKUL CLS LOSS CON < 24	32	80023	80026 80032 80033 80036 80042 80043
FRAC SKUL CLS LOSS CON < 24	32	80002	80003 80006 80012 80013 80016 80022
FRAC SKUL CLS LOSS CON < 24	32	80046	80102 80103 80106 80112 80113 80116
FRAC SKUL CLS LOSS CON < 24	32	80316	80322 80323 80326 80332 80333 80336
FRAC SKUL CLS LOSS CON < 24	32	80342	80343 80346
INJURY NERVES CRANIAL	33	950XX	951XX 90710
CERE CONT CLS LOSS CON > 24	33	85104	85105 85144 85145
FRAC SKUL CLS LOSS CON > 24	33	80124	80125 80134 80135 80144 80145 80304
FRAC SKUL CLS LOSS CON > 24	33	80305	80314 80315 80324 80325 80334 80335
FRAC SKUL CLS LOSS CON > 24	33	80004	80005 80014 80015 80024 80025 80034
FRAC SKUL CLS LOSS CON > 24	33	80035	80044 80045 80104 80105 80114 80115
FRAC SKUL CLS LOSS CON > 24	33	80344	80345
CERE CONT CLS LOSS CON < 24	34	85102	85103 85142 85143
FRAC SKUL CLS LOSS CON < 24	34	80122	80132 80133 80136 80142 80316 80322
FRAC SKUL CLS LOSS CON < 24	34	80323	80326 80332 80333 80336 80023 80026
FRAC SKUL CLS LOSS CON < 24	34	80032	80033 80036 80042 80043 80002 80003
FRAC SKUL CLS LOSS CON < 24	34	80006	80012 80013 80016 80022 80143 80146
FRAC SKUL CLS LOSS CON < 24	34	80302	80303 80306 80312 80313 80046 80102
FRAC SKUL CLS LOSS CON < 24	34	80103	80106 80112 80113 80116 80342 80343
FRAC SKUL CLS LOSS CON < 24	34	80346	

DESCRIPTION	PC	ICD9	CODES
CERE CONT CLS LOSS CON > 24	35	85104 85105 85144 85145	
FRAC SKUL CLS LOSS CON > 24	35	80124 80125 80134 80135 80144 80145 80304	
FRAC SKUL CLS LOSS CON > 24	35	80004 80005 80014 80015 80024 80025 80034	
FRAC SKUL CLS LOSS CON > 24	35	80035 80044 80045 80104 80105 80114 80115	
FRAC SKUL CLS LOSS CON > 24	35	80305 80314 80315 80324 80325 80334 80335	
FRAC SKUL CLS LOSS CON > 24	35	80344 80345	
CERE CONT CLS LOSS CON > 24	36	DIAGNOSES DO NOT DISTINGUISH FROM PC 33	
CERE CONT CLS NO/UNSPEC LOC	37	85100 85101 85106 85109 85140 85141 85146	
CERE CONT CLS NO/UNSPEC LOC	37	85149	
FRAC SKULL CLS UNSPEC LOC	37	80000 80001 80009 80010 80011 80019 80020	
FRAC SKULL CLS UNSPEC LOC	37	80021 80029 80030 80031 80039 80040 80041	
FRAC SKULL CLS UNSPEC LOC	37	80049 80100 80101 80109 80110 80111 80119	
FRAC SKULL CLS UNSPEC LOC	37	80120 80121 90129 80130 80131 80139 80140	
FRAC SKULL CLS UNSPEC LOC	37	80141 80149 80300 80301 80309 80310 80311	
FRAC SKULL CLS UNSPEC LOC	37	80319 80320 80321 80329 80330 80331 80339	
FRAC SKULL CLS UNSPEC LOC	37	80340 80341 80349	
INTRA CRAN HEM POST INJURY	37	85200 85201 85202 85203 85204 85205 85206	
INTRA CRAN HEM POST INJURY	37	85209 85300 85301 85302 85303 85304 85305	
INTRA CRAN HEM POST INJURY	37	85306 85309	
CERE CONT CLS NO/UNSPEC LOC	38	85100 85101 85106 85109 85140 85141 85146	
CERE CONT CLS NO/UNSPEC LOC	38	85149	
FRAC SKULL CLS UNSPEC LOC	38	80000 80001 80009 80010 80011 80019 80020	
FRAC SKULL CLS UNSPEC LOC	38	80021 80029 80030 80031 80039 80040 80041	
FRAC SKULL CLS UNSPEC LOC	38	80049 80100 80101 80109 80110 80111 80119	
FRAC SKULL CLS UNSPEC LOC	38	80120 80121 90129 80130 80131 80139 80140	
FRAC SKULL CLS UNSPEC LOC	38	80141 80149 80300 80301 80309 80310 80311	
FRAC SKULL CLS UNSPEC LOC	38	80319 80320 80321 80329 80330 80331 80339	
FRAC SKULL CLS UNSPEC LOC	38	80340 80341 80349	
CEREBRAL CONTUSION OPEN	39	85119 85150 85151 85152 85153 85154 85155	
CEREBRAL CONTUSION OPEN	39	85110 85111 85112 85113 85114 85115 85116	
CEREBRAL CONTUSION OPEN	39	85156 85159	
FRAC SKULL/FOREIGN BODY	39	NO ICD9 EQUIVALENT	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>									
CEREBRAL CONTUSION OPEN	40	85119	85150	85151	85152	85153	85154	85155				
CEREBRAL CONTUSION OPEN	40	85110	85111	85112	85113	85114	85115	85116				
CEREBRAL CONTUSION OPEN	40	85156	85159									
FRACTURE OF SKULL OPEN	40	80366	80369	80370	80371	80372	80373	80374				
FRACTURE OF SKULL OPEN	40	80390	80351	80352	80353	80354	80355	80356				
FRACTURE OF SKULL OPEN	40	80359	80360	80361	80362	80363	80364	80365				
FRACTURE OF SKULL OPEN	40	80092	80093	80094	80095	80096	80099	80350				
FRACTURE OF SKULL OPEN	40	80384	80385	80386	80389	80391	80392	80393				
FRACTURE OF SKULL OPEN	40	80174	80175	80176	80179	80180	80181	80182				
FRACTURE OF SKULL OPEN	40	80055	80056	80059	80060	80061	80062	80063				
FRACTURE OF SKULL OPEN	40	80064	80065	80066	80069	80070	80071	80072				
FRACTURE OF SKULL OPEN	40	80165	80166	80169	80170	80171	80172	80173				
FRACTURE OF SKULL OPEN	40	80375	80376	80379	80380	80381	80382	80383				
FRACTURE OF SKULL OPEN	40	80050	80090	80051	80052	80053	80054	80183				
FRACTURE OF SKULL OPEN	40	80184	80185	80186	80189	80191	80192	80150				
FRACTURE OF SKULL OPEN	40	80190	80151	80152	80153	80154	80155	80156				
FRACTURE OF SKULL OPEN	40	80159	80160	80161	80162	80163	80164	80073				
FRACTURE OF SKULL OPEN	40	80074	80075	80076	80079	80080	80081	80082				
FRACTURE OF SKULL OPEN	40	80083	80084	80085	80086	80089	80091	80193				
FRACTURE OF SKULL OPEN	40	80194	80195	80196	80199	80394	80395	80396				
FRACTURE OF SKULL OPEN	40	80399	80450	80451	80452	80453	80454	80455				
FRACTURE OF SKULL OPEN	40	80456	80459	80460	80461	80462	80463	80464				
FRACTURE OF SKULL OPEN	40	80465	80466	80469	80470	80471	80472	80473				
FRACTURE OF SKULL OPEN	40	80474	80475	80476	80479	80480	80481	80482				
FRACTURE OF SKULL OPEN	40	80483	80484	80485	80486	80489	80490	80491				
FRACTURE OF SKULL OPEN	40	80492	80493	80494	80495	80496	80499	90500				
WOUND SCALP EXCL SIMPLE	41	NO ICD9 EQUIVALENT										
WOUND SCALP SIMPLE	42	87300										
MULT FRC FACE BNS CL EX MAND	43	80400	80401	80402	80403	80404	80405	80406				
MULT FRC FACE BNS CL EX MAND	43	80409	80410	80411	80412	80413	80414	80415				
MULT FRC FACE BNS CL EX MAND	43	80416	80419	80420	80421	80422	80423	80424				
MULT FRC FACE BNS CL EX MAND	43	80425	80426	80429	80430	80431	80432	80433				
MULT FRC FACE BNS CL EX MAND	43	80434	80435	80436	80439	80440	80441	80442				
MULT FRC FACE BNS CL EX MAND	43	80443	80444	80445	80446	80449						
FRAC FACE BONES CLS EXC MAND	44	80200	80240	80260	80280							

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
FRACTURE FACE BONES	45	802XX	
WOUND NECK W AIRWAY OBSTRCTN	45	87410 87411 87412	
FRACTURE FACE BONES	46	802XX	
WOUND FACE JAWS NECK	46	874XX 92000 92500	
WOUND NECK W AIRWAY OBSTRCTN	47	87410 87411 87412	
WOUND FACE JAWS NECK	48	874XX 92000 92500 87330	
FRACTUR FACE BONES MAND OPEN	49	80230 80231 80232 80233 80234 80235 80236	
FRACTUR FACE BONES MAND OPEN	49	80237 80238 80239	
FRACTUR FACE BONES MAND CLSD	50	80220 80221 80222 80223 80224 80225 80226	
FRACTUR FACE BONES MAND CLSD	50	80227 80228 80229	
EYE WND/NOT SALVAGEABLE	51	87110 87120 87130	
EYE WND/RETINAL-SALVAGEABLE	52	87100	
EYE WND/NO RET INJ-SALVAGBL	53	870XX 921XX 87100 87110 87120 87140 87150	
EYE WND/NO RET INJ-SALVAGBL	53	87160 87170 87190	
EYE WOUND CHEMICAL BURN	54	94000 94020 94030	
EAR WOUND OPEN OSSICLES	55	87262 87272	
EAR WOUND OPEN TYMPANIC MEM	56	87261 87271 38420 38421 38422 38423 38424	
EAR WOUND OPEN TYMPANIC MEM	56	38425	
FRAC SPIN CLSD NO CORD DAMA	57	80500 80560 80580 80520 80540 80501 80502	
FRAC SPIN CLSD NO CORD DAMA	57	80503 80504 80505 80506 80507 80508	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
FRAC SPIN CLSD NO CORD DAMA	58	DIAGNOSES DO NOT DISTINGUISH FROM PC 57	
FRAC CERV SPINE CLS/CORD DMG	59	80600	80601 80602 80603 80604 80605 80606
FRAC CERV SPINE CLS/CORD DMG	59	80607	80608 80609
FRAC BLW CERV SPN CL/COR DAM	60	80620	80621 80622 80623 80624 80625 80626
FRAC BLW CERV SPN CL/COR DAM	60	80627	80628 80629 80640 80660 80661 80662
FRAC BLW CERV SPN CL/COR DAM	60	80669	
FRAC CERV SPIN OPEN/CORD DAM	51	80610	80611 80612 80613 80614 80615 80616
FRAC CERV SPIN OPEN/CORD DAM	61	80617	80618 80619
FRAC BLW CERV SP OPN/COR DAM	62	80630	80631 80632 80633 80634 80635 80636
FRAC BLW CERV SP OPN/COR DAM	62	80637	80638 80639 80650 80670 80671 80672
FRAC BLW CERV SP OPN/COR DAM	62	80679	
FRACTURE CLAVICLE CLOSED	64	81000	81001 81002 81003
OPN WND SHLDER COMP EX TNDN	65	88010	88011 88012 88013 88019 88410
OPN WND SHLDER W/TNDN INVOLV	66	88020	88021 88022 88023 88029 88420
FRACT HUMERUS CLOSED SHAFT	67	81221	
OPEN WND SHOULDER/UPPER ARM	68	880XX	884XX 92300 92301 92302 92303 92309
OPEN WND SHOULDER/UPPER ARM	68	92700	92701 92702 92703 92709
INJURY NERVES UPPER ARM	68	95340	95500 95540 95550 95570 95590
VASCULAR INJ/UPPER EXTREMITY	69	903XX	
OPEN WND SHOULDER/UPPER ARM	69	880XX	884XX 92300 92301 92302 92303 92309
OPEN WND SHOULDER/UPPER ARM	69	92700	92701 92702 92703 92709
OPN WND SHLDR/UP ARM WMO CMP	70	88000	88001 88002 88003 88009 88400

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
VASCULAR INJ/UPPER EXTREMITY	71	903XX	
FRACT HUMERUS OPEN	71	81210 81230 81250 81211 81212 81213 81219	
FRACT HUMERUS OPEN	71	81231 81251 81252 81253 81254 81259	
INJURY NERVES UPPER ARM	71	95340 95500 95540 95550 95570 95590	
AMPUTATION FULL ARM	71	88720 88730	
FRACT HUMERUS OPEN	72	81210 81230 81250 81211 81212 81213 81219	
FRACT HUMERUS OPEN	72	81231 81251 81252 81253 81254 81259	
INJURY NERVES UPPER ARM	72	95340 95500 95540 95550 95570 95590	
FRAC RADIUS/ULNA CLSD SHAFT	73	81323	
FRAC RADIU/ULNA CLSD COLLES	74	81341	
WND FOREARM OPN W/COMPLIC	75	88110 88111 88112 88113 88120 88121 88122	
WND FOREARM OPN W/COMPLIC	75	88123	
WND FOREARM OPN W/O COMPLIC	76	88100 88101 88102 88103	
VASCULAR INJ/UPPER EXTREMITY	77	903XX	
FRACTURE RADIUS/ULNA OPEN	77	81311 81312 81313 81314 81331 81332 81333	
FRACTURE RADIUS/ULNA OPEN	77	81351 81352 81353 81354 81310 81330 81350	
FRACTURE RADIUS/ULNA OPEN	77	81315 81316 81317 81318 81391 81392 81393	
FRACTURE RADIUS/ULNA OPEN	77	81390	
INJURY NERVES FOREARM	77	NO ICD9 EQUIVALENT	
AMPUTATION FOREARM	77	88700 88710	
VASCULAR INJ/UPPER EXTREMITY	78	903XX	
FRACTURE RADIUS/ULNA OPEN	78	81315 81316 81317 81318 81391 81392 81393	
FRACTURE RADIUS/ULNA OPEN	78	81331 81332 81333 81351 81352 81353 81354	
FRACTURE RADIUS/ULNA OPEN	78	81310 81330 81350 81311 81312 81313 81314	
FRACTURE RADIUS/ULNA OPEN	78	81390	
INJURY NERVES FOREARM	78	NO ICD9 EQUIVALENT	
FRAC HAND/FNGR CLSD NOT SIMP	79	81400 81401 81402 81403 81404 81405 81406	
FRAC HAND/FNGR CLSD NOT SIMP	79	81407 81408 81409 81500 81501 81502 81503	
FRAC HAND/FNGR CLSD NOT SIMP	79	81504 81509 81600 81601 81602 81603 81700	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
FRAC HAND/FINGR CLSD SIMPLE	80	NO ICD9 EQUIVALENT	
WND HAND/WRST/FNGR W TENDNS	81	88220 88320	
WND HAND/WRST/FNGR NO TENDNS	82	88200	88210 88300 88310 90610 92320 92321
WND HAND/WRST/FNGR NO TENDNS	82	92330	92720 92721 92730
FRACTURE HAND OPEN	83	81410	81511 81512 81513 81411 81412 81413
FRACTURE HAND OPEN	83	81414	81415 81416 81417 81418 81419 81510
FRACTURE HAND OPEN	83	81514	81519 81710
FRACTURE FINGERS OPEN	84	81610	81611 81612 81613
CRUSHING INJURY TO FINGER	84	92730	
FRACTURE FINGERS OPEN	85	81610	81611 81612 81613
CRUSHED UPPER EXTREMITY	86	92700	92701 92702 92703 92709 92710 92711
CRUSHED UPPER EXTREMITY	86	92780	92790
AMPUTATION FULL ARM	86	88720	88730
CRUSHED UPPER EXTREMITY	87	92700	92701 92702 92703 92709 92710 92711
CRUSHED UPPER EXTREMITY	87	92780	92790
DISLOCATION ELBOW CLOSED	88	83200	83201 83202 83203 83204 83209 81242
FRACTURE ELBOW CLOSED	88	81241	81243 81244 81249
AMPUTATION HAND	89	885XX	886XX 90590
AMPUTATION FOREARM	90	88700	88710
AMPUTATION FULL ARM	91	88720	88730
FRACTURE RIBS MULT CLOSED	93	80702	80842 80704 80705 80706 80707 80708
FRACTURE RIBS MULT CLOSED	93	80709	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
FRACTURE RIB SINGLE CLOSED	94	80701	
INJURY LUNG CLOSED	95	86120 86121 86122	
PNEUMOHEMOTHORAX	95	860XX	
INJURY LUNG CLOSED	96	86120 86121 86122	
WND CHEST/BACK OPEN COMPLIC	97	87510 87610 90840	
WND CHEST/BACK OPEN SIMPLE	98	87500 87610	
FRACTURE RIB(S) OPEN	99	80710 80711 80712 80713 80714 80715 80716	
FRACTURE RIB(S) OPEN	99	80717 80718 80719	
WOUND CHEST/BACK OPEN	99	875XX 876XX 90840	
PNEUMOHEMOTHORAX	99	860XX	
FRACTURE RIB(S) OPEN	100	80710 80711 80712 80713 80714 80715 80716	
FRACTURE RIB(S) OPEN	100	80717 80718 80719	
WOUND CHEST/BACK OPEN	100	875XX 876XX 90840	
INJURY HEART OPEN	101	86110 86111 86112 86113	
WOUND ABDOMINAL WALL OPEN	102	87920 87930 87940 87950	
WND ABDOMINAL WALL CONTUSN	103	92220	
WND LIVER CLS MAJ DAMAGE	104	86402 86403 86404	
WND LIVER CLS MIN/UNSP DAM	105	86400 86401 86409	
WOUND SPLEEN CLOSED	106	86500 86501 86502 86503 86504 86509	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
WOUND COLON OPEN	107	86350	86351 86352 86353 86354 86355 86356
WOUND COLON OPEN	107	86359	
WOUND SMALL INTESTINE OPEN	108	86330	86331 86339
WOUND LIVER OPEN-MAJR DAMG	109	86412	86413 86414
WND LIVER OPN-MINR/UNSP DMG	110	86410	86411 86419
WOUND SPLEEN OPEN	111	86510	86511 86512 86513 86514 86519
WND KIDNEY DISRUP PARENCH	112	86603	86613
WOUND KIDNEY LACERATION	113	86602	86612
OPN WND KIDNEY WMO LAC/PAR	114	86610	86611
WOUND BLADDER/URETER OPEN	115	86710	86730
WND BLADDER/URETER NOT OPEN	116	86700	86720
OPEN WOUND BUTTOCKS COMPLIC	117	87710	
OPEN WOUND BUTTOCKS SIMPLE	118	87700	
WOUND PELVIC ORGANS	119	867XX	
FRACTURE PELVIS CLOSED	119	80842	80704 80849 80851 80852 80853 80859
FRACTURE PELVIS CLOSED	119	80800	80820 80840 80880 80850 80841
FRACTURE PELVIS CLOSED	120	80842	80704 80849 80851 80852 80853 80859
FRACTURE PELVIS CLOSED	120	80800	80820 80840 80880 80850 80841

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
WOUND PELVIC ORGANS	121	867XX	
FRACTURE PELVIS OPEN	121	80810 80830 80890	
WOUND COLON OPEN	122	86350 86351 86352 86353 86354 86355 86356	
WOUND COLON OPEN	122	86359	
FRACTURE PELVIS OPEN	122	80810 80830 80890	
WND EXT GENITALIA MALE OPN	123	87800 87820 87880 87810 87830 87890	
WND EXT GENIT MLE CONT/CRSH	124	92240 92600	
WND EXT GENITALIA FEML COMP	125	87850 87870	
WND EXT GENIT FEML WMO COMP	126	87840 87860	
FRACTURE FEMUR SHAFT CLOSED	128	82101	
OPN WND HIP/THIGH COMPLIC	129	89010 89020	
OPN WND HIP/THIGH WMO COMP	130	89000	
VASCULAR INJ/LOW EXTREMITY	131	904XX	
INJURY NERVES THIGH	131	95600 95610	
AMPUTATION LEG ABOVE KNEE	131	89720 89730	
FRACTURE FEMUR OPEN	131	82011 82012 82013 82019 82031 82032 82110	
FRACTURE FEMUR OPEN	131	82130 82010 82030 82090 82111 82131 82132	
FRACTURE FEMUR OPEN	131	82133 82139	
INJURY NERVES THIGH	132	95600 95610	
FRACTURE FEMUR OPEN	132	82111 82131 82132 82031 82032 82110 82130	
FRACTURE FEMUR OPEN	132	82010 82030 82090 82011 82012 82013 82019	
FRACTURE FEMUR OPEN	132	82133 82139	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
VASCULAR INJ/LOW EXTREMITY	133	904XX	
FRACTURE FEMUR OPEN	133	82111 82131 82132 82031 82032 82110 82130	
FRACTURE FEMUR OPEN	133	82010 82030 82090 82011 82012 82013 82019	
FRACTURE FEMUR OPEN	133	82133 82139	
 FRACTURE PATELLA OPEN	 134	 82210	
 WND KNEE/LOWER LEG/ANK OPEN	 135	 891XX	
TORN CARTLGE/INT DERANG KNE	135	83600 83610 83620 717XX	
 WND KNEE/LEG/ANK OPN W/TNDN	 136	 89120	
 FRAC TIBIA & FIBUL SHFT CLS	 137	 82322	
 WND KNEE/LEG/ANK OPEN COMP	 138	 89110	
 WND KNE/LEG/ANK OPN NO COMP	 139	 89100	
 VASCULAR INJ/LOW EXTREMITY	 140	 904XX	
INJURY NERVES LOWER LEG	140	95620 95630 95640 95650 95690 90750	
AMPUTATION LEG BELOW KNEE	140	89700 89710	
FRAC TIBIA & FIBULA OPEN	140	82311 82312 82390 82391 82392 82310 82330	
FRAC TIBIA & FIBULA OPEN	140	82331 82332	
 INJURY NERVES LOWER LEG	 141	 95620 95630 95640 95650 95690 90750	
FRAC TIBIA & FIBULA OPEN	141	82311 82312 82390 82391 82392 82310 82330	
FRAC TIBIA & FIBULA OPEN	141	82331 82332	
 VASCULAR INJ/LOW EXTREMITY	 142	 904XX	
FRAC TIBIA & FIBULA OPEN	142	82311 82312 82390 82391 83392 82310 82330	
FRAC TIBIA & FIBULA OPEN	142	82331 82332	
 FRAC ANKLE/FOOT/TOES CLOSED	 143	 82500 82520 82521 82522 82523 82524 82525	
FRAC ANKLE/FOOT/TOES CLOSED	143	82400 82420 82440 82460 82480 82529 82600	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>	
FRAC ANKLE/FOOT/TOES CLOSED	144	DIAGNOSES DO NOT DISTINGUISH FROM PC 143		
OPN WND ANK/FT/TS TNDN/COMP	145	89210	89220	89310 89320
OPN WND ANK/FT/TS NO COMP	146	89200	89300	
VASCULAR INJ/LOW EXTREMITY	147	904XX		
AMPUTATION FOOT	147	896XX		
INJURY NERVES FOOT & ANKLE	147	95630		
FRAC ANKLE/FOOT/TOES OPEN	147	82510	82530 82531 82532 82533 82534 82535	
FRAC ANKLE/FOOT/TOES OPEN	147	82410	82430 82450 82470 82490 82539 82610	
INJURY NERVES FOOT & ANKLE	148	95630		
FRAC ANKLE/FOOT/TOES OPEN	148	82539	82610 82410 82430 82450 82470 82490	
FRAC ANKLE/FOOT/TOES OPEN	148	82510	82530 82532 82533 82534 82535	
VASCULAR INJ/LOW EXTREMITY	149	904XX		
FRAC ANKLE/FOOT/TOES OPEN	149	82410	82430 82450 82470 82490 82539 82610	
FRAC ANKLE/FOOT/TOES OPEN	149	82510	82530 82531 82532 82533 82534 82535	
CRUSH LOWER EXTREMITY	150	92800	92810 92890 92801 92811 92820 92830	
CRUSH LOWER EXTREMITY	150	92821	92880	
AMPUTATION LEG ABOVE KNEE	150	89720	89730	
CRUSH LOWER EXTREMITY	151	92800	92810 92890 92801 92811 92820 92830	
CRUSH LOWER EXTREMITY	151	92821	92880	
AMPUTATION FOOT	152	896XX		
AMPUTATION LEG BELOW KNEE	153	89700	89710	
AMPUTATION LEG ABOVE KNEE	154	89720	89730	
AMPUTATION LEGS BILATERAL	155	89760	89770	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
BURNS 3RD DEGREE BSA 30-39%	157	94833	
BURNS GENITALIA 3RD DEGREE	157	94235	94245 94255
BURNS LOWER EXTREM 3RD DEGR	157	94535	94536 94539 94541 94542 94543 94544
BURNS LOWER EXTREM 3RD DEGR	157	94530	94540 94531 94532 94533 94534 94545
BURNS LOWER EXTREM 3RD DEGR	157	94546	94549 94550 94551 94552 94553 94554
BURNS LOWER EXTREM 3RD DEGR	157	94555	94556 94559
BURNS 3RD DEGREE BSA 20-29%	158	94822	
BURNS TRUNK 3RD DEGREE	158	94239	94241 94242 94243 94244 94249 94250
BURNS TRUNK 3RD DEGREE	158	94230	94240 94231 94232 94233 94234 94251
BURNS TRUNK 3RD DEGREE	158	94252	94253 94254 94259
BURNS 3RD DEGREE BSA 20-29%	159	94822	
BURNS GENITALIA 3RD DEGREE	159	94235	94245 94255
BURNS LOWER EXTREM 3RD DEGR	159	94545	94546 94549 94550 94551 94552 94553
BURNS LOWER EXTREM 3RD DEGR	159	94535	94536 94539 94541 94542 94543 94544
BURNS LOWER EXTREM 3RD DEGR	159	94530	94540 94531 94532 94533 94534 94554
BURNS LOWER EXTREM 3RD DEGR	159	94555	94556 94559
BURNS 3RD DEGREE BSA 10-19%	160	94811	
BURNS UPPER EXTREM 3RD DEGR	160	94345	94346 94349 94350 94351 94352 94353
BURNS UPPER EXTREM 3RD DEGR	160	94438	94441 94442 94443 94444 94445 94446
BURNS UPPER EXTREM 3RD DEGR	160	94431	94432 94433 94434 94435 94436 94437
BURNS UPPER EXTREM 3RD DEGR	160	94354	94355 94356 94359 94430 94440 94330
BURNS UPPER EXTREM 3RD DEGR	160	94340	94331 94332 94333 94334 94335 94336
BURNS UPPER EXTREM 3RD DEGR	160	94339	94341 94342 94343 94344 94447 94448
BURNS UPPER EXTREM 3RD DEGR	160	94450	94451 94452 94453 94454 94455 94456
BURNS UPPER EXTREM 3RD DEGR	160	94457	94458
BURNS 3RD DEGREE BSA 10-19%	161	94811	
BURNS TRUNK 3RD DEGREE	161	94239	94241 94242 94243 94244 94249 94250
BURNS TRUNK 3RD DEGREE	161	94230	94240 94231 94232 94233 94234 94251
BURNS TRUNK 3RD DEGREE	161	94252	94253 94254 94259
BURNS 3RD DEGREE BSA < 10%	162	94800	
BURN EYES 3RD DEGREE	162	NO ICD9 EQUIVALENT	
BURNS HEAD & NECK 3RD DEGR	162	94150	94151 94152 94153 94154 94155 94146
BURNS HEAD & NECK 3RD DEGR	162	94130	94140 94131 94132 94133 94134 94143
BURNS HEAD & NECK 3RD DEGR	162	94144	94145 94146 94147 94148 94149 94135
BURNS HEAD & NECK 3RD DEGR	162	94136	94137 94138 94139 94141 94142 94157
BURNS HEAD & NECK 3RD DEGR	162	94158	94159

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
BURNS 3RD DEGREE BSA < 10%	163	94800	
BURNS UPPER EXTREM 3RD DEGR	163	94345	94346 94349 94350 94351 94352 94353
BURNS UPPER EXTREM 3RD DEGR	163	94447	94448 94450 94451 94452 94453 94454
BURNS UPPER EXTREM 3RD DEGR	163	94431	94432 94433 94434 94435 94436 94437
BURNS UPPER EXTREM 3RD DEGR	163	94438	94441 94442 94443 94444 94445 94446
BURNS UPPER EXTREM 3RD DEGR	163	94354	94355 94356 94359 94430 94440 94335
BURNS UPPER EXTREM 3RD DEGR	163	94336	94339 94341 94342 94343 94344 94330
BURNS UPPER EXTREM 3RD DEGR	163	94340	94331 94332 94333 94334 94455 94456
BURNS UPPER EXTREM 3RD DEGR	163	94457	94458
 BURNS 3RD DEGREE BSA < 10%	164	94800	
BURNS HEAD & NECK 3RD DEGR	164	94150	94151 94152 94153 94154 94155 94156
BURNS HEAD & NECK 3RD DEGR	164	94130	94140 94131 94132 94133 94134 94143
BURNS HEAD & NECK 3RD DEGR	164	94144	94145 94146 94147 94148 94149 94135
BURNS HEAD & NECK 3RD DEGR	164	94136	94137 94138 94139 94141 94142 94157
BURNS HEAD & NECK 3RD DEGR	164	94158	94159
 BURNS BSA 30-39%	165	94830	
BURNS GENITALIA 2ND DEGREE	165	94225	
BURNS LOWER EXTREM 2ND DEGR	165	94520	94521 94522 94523 94524 94525 94526
BURNS LOWER EXTREM 2ND DEGR	165	94529	
 BURNS BSA 20-29%	166	94820	
BURNS TRUNK 2ND DEGREE	166	94220	94221 94222 94223 94224 94229
 BURNS BSA 20-29%	167	94820	
BURNS GENITALIA 2ND DEGREE	167	94225	
BURNS LOWER EXTREM 2ND DEGR	167	94520	94521 94522 94523 94524 94525 94526
BURNS LOWER EXTREM 2ND DEGR	167	94529	
 BURNS BSA 10-19%	168	94810	
BURNS UPPER EXTREM 2ND DEGR	168	94320	94321 94322 94323 94324 94325 94326
BURNS UPPER EXTREM 2ND DEGR	168	94329	94420 94421 94422 94423 94424 94425
BURNS UPPER EXTREM 2ND DEGR	168	94426	94427 94428
 BURNS BSA 10-19%	169	94810	
BURNS TRUNK 2ND DEGREE	169	94220	94221 94222 94223 94224 94229

<u>DESCRIPTION</u>	<u>IC</u>	<u>ICD9 CODES</u>
BURNS BSA < 10%	170	94800
BURN EYES 2ND DEGREE	170	NO ICD9 EQUIVALENT
BURNS HEAD & NECK 2ND DEGR	170	94120 94121 94122 94123 94124 94125 94126
BURNS HEAD & NECK 2ND DEGR	170	94127 94128 94129
 BURNS BSA < 10%	 171	 94800
BURNS UPPER EXTREM 2ND DEGR	171	94320 94321 94322 94323 94324 94325 94326
BURNS UPPER EXTREM 2ND DEGR	171	94329 94420 94421 94422 94423 94424 94425
BURNS UPPER EXTREM 2ND DEGR	171	94426 94427 94428
 BURNS BSA < 10%	 172	 94800
BURNS HEAD & NECK 2ND DEGR	172	94120 94121 94122 94123 94124 94125 94126
BURNS HEAD & NECK 2ND DEGR	172	94127 94128 94129
 BURNS BSA 30-39%	 173	 94830
BURNS GENITALIA 1ST DEGREE	173	94215
BURNS LOWER EXTREM 1ST DEGR	173	94510 94511 94512 94513 94514 94515 94516
BURNS LOWER EXTREM 1ST DEGR	173	94519
 BURNS BSA 20-29%	 174	 94820
BURNS TRUNK 1ST DEGREE	174	94210 94211 94212 94213 94214 94219
 BURNS BSA 20-29%	 175	 94820
BURNS GENITALIA 1ST DEGREE	175	94215
BURNS LOWER EXTREM 1ST DEGR	175	94510 94511 94512 94513 94514 94515 94516
BURNS LOWER EXTREM 1ST DEGR	175	94519
 BURNS BSA 10-19%	 176	 94810
BURNS UPPER EXTREM 1ST DEGR	176	94316 94319 94410 94411 94412 94413 94310
BURNS UPPER EXTREM 1ST DEGR	176	94311 94312 94313 94314 94315 94414 94415
BURNS UPPER EXTREM 1ST DEGR	176	94416 94417 94418
 BURNS BSA 10-19%	 177	 94810
BURNS TRUNK 1ST DEGREE	177	94210 94211 94212 94213 94214 94219

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9 CODES</u>
BURNS BSA < 10%	178	94800
BURN EYES 1ST DEGREE	178	NO ICD9 EQUIVALENT
BURNS HEAD & NECK 1ST DEGR	178	94110 94111 94112 94113 94114 94115 94116
BURNS HEAD & NECK 1ST DEGR	178	94117 94118 94119
BURNS BSA < 10%	179	94800
BURNS UPPER EXTREM 1ST DEGR	179	94316 94319 94410 94411 94412 94413 94310
BURNS UPPER EXTREM 1ST DEGR	179	94311 94312 94313 94314 94315 94414 94415
BURNS UPPER EXTREM 1ST DEGR	179	94416 94417 94418
BURNS BSA < 10%	180	94800
BURNS HEAD & NECK 1ST DEGR	180	94110 94111 94112 94113 94114 94115 94116
BURNS HEAD & NECK 1ST DEGR	180	94117 94118 94119
DISLOC TEMPOROMANDIBULAR JNT	184	52460
DISLOCATION JAW	185	830XX
INTRVT DSC DIS DGEN/MYLOPHY	186	72240 72250 72251 72252 72260 72270 72271
INTRVT DSC DIS DGEN/MYLOPHY	186	72272 72273 72279
INT DSC DIS NO DGEN/MYLOPHY	187	72200 72210 72211 72220 72230 72231 72232
INT DSC DIS NO DGEN/MYLOPHY	187	72239
STRNS/SPRNS SACROILIAC JNT	188	84600
STRNS/SPRNS SACROILIAC OPN	189	NO ICD9 EQUIVALENT
STRNS/SPRNS SAC WMO OPN/JNT	190	84610 84620 84630 84680 84690
DISLOCATION SHOULDER CLOSED	191	83100 83101 83102 83103 83104 83109
DISLOCATION ELBOW CLOSED	192	83200 83201 83202 83203 83204 83209

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
TENOSYNOVITIS ELB/WRST/SHLDR	193	71920 71921 71922 71923 71924 71925 71926	
TENOSYNOVITIS ELB/WRST/SHLDR	193	71927 71928 71929 72010 72610 72611 72612	
TENOSYNOVITIS ELB/WRST/SHLDR	193	72619 72630 72631 72632 72633 72639 72640	
TENOSYNOVITIS ELB/WRST/SHLDR	193	72650 72660 72661 72662 72663 72664 72665	
TENOSYNOVITIS ELB/WRST/SHLDR	193	72669 72680 72690 72691 72700 72701 72702	
TENOSYNOVITIS ELB/WRST/SHLDR	193	72703 72704 72705 72706 72709 72720 72730	
TENOSYNOVITIS ELB/WRST/SHLDR	193	72740 72741 72742 72743 72749 72750 72751	
TENOSYNOVITIS ELB/WRST/SHLDR	193	72759	
DISLOCAT HAND/WRIST CLOSED	194	83300 83301 83302 83303 83304 83305 83309	
DISLOCATION FINGERS CLOSED	195	83400 83401 83402	
SPRAIN WRIST CLOSED	196	84200 84201 84202 84209	
SPRAIN THUMB CLOSED	197	84212	
SPRAIN HAND/FINGERS CLOSED	198	84210 84211 84213 84219	
DISLOCATION HIP CLOSED	199	83500 83501 83502 83503	
STRAIN/SPRAIN KNEE OPEN	200	NO ICD9 EQUIVALENT	
STRAIN/SPRAIN KNEE WMO OPN	201	844XX	
TORN CARTLGE/INT DERANG KNE	202	83600 83610 83620 717XX	
CHONDROMALACIA	203	73392 71770	
SPRN/STRN ANK/FT CLS LIGAMT	204	84501 84502 84503 84511	
SPR/STRN ANK/FT WMO OPN/LIG	205	84500 84509 84510 84512 84513 84519	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9 CODES</u>
DISLOCAT FOOT/TOES CLOSED	206	83800 83801 83802 83803 83804 83805 83806
DISLOCAT FOOT/TOES CLOSED	206	83809
FROSTBITE FOOT	207	99120
IMMERSION FOOT REDUCED TEMP	208	99140
EFF REDUCED TEMP EXCESS DAMP	209	NO ICD9 EQUIVALENT
FROSTBITE WMO OF FOOT	210	99100 99110 99130
EFFECT OF REDUCED TEMP OTHER	211	99180 99190
HYPOTHERMIA ALL	212	99160
HEATSTROKE	213	99200 99210
HEAT EXHAUSTION	214	99230 99240 99250 99260
HEAT CRAMPS ALL	215	99220
BLISTERS-DUE TO FRICTION	216	91400 91420 91410 91430 91500 91520 91510
BLISTERS-DUE TO FRICTION	216	91530 91700 91720 91710 91730
INSECT BITES/STINGS	217	91040 91050 91140 91150 91240 91250 91340
INSECT BITES/STINGS	217	91350 91440 91450 91540 91550 91640 91650
INSECT BITES/STINGS	217	91740 91750 91940 91950
SYSTEMIC SYMPTOMS/RESP COND	217	40500 40501 40509 40510 40511 40519 40590
SYSTEMIC SYMPTOMS/RESP COND	217	40591 40599 50880 50890 78690
INSECT BITES/STINGS	218	91040 91050 91140 91150 91240 91250 91340
INSECT BITES/STINGS	218	91350 91440 91450 91540 91550 91640 91650
INSECT BITES/STINGS	218	91740 91750 91940 91950

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
ANIMAL BITES/RABIES EXPOSURE	219	07100	
NEAR DROWNING	220	99410	
TOXIC INHALATION	221	98600 98700 98710 98720 98730 98740 98750	
TOXIC INHALATION	221	98760 98770 98780 98790	
APPENDICITIS ACUTE W PERITON	224	54000 54010	
APPNDICITIS ACUTE NO PERITON	225	54090	
INGUIN HERN DIR/INDIR INCARC	226	55000 55001 55002 55003 55010 55011 55012	
INGUIN HERN DIR/INDIR INCARC	226	55013	
INGUIN HERN DIR/IND NO INCRC	227	55090 55091 55092 55093	
BOILS FURUNCLES PYODERMA	228	680XX 68600	
PILONIDAL CYST/ABSCCESS	229	685XX	
PEPTIC ULC GASTRIC/DUOD PERF	230	53110 53111 53120 53121 53150 53151 53160	
PEPTIC ULC GASTRIC/DUOD PERF	230	53161 53210 53211 53220 53221 53250 53251	
PEPTIC ULC GASTRIC/DUOD PERF	230	53260 53261 53310 53311 53320 53321 53350	
PEPTIC ULC GASTRIC/DUOD PERF	230	53351 53360 53361 53410 53411 53420 53421	
PEPTIC ULC GASTRIC/DUOD PERF	230	53450 53451 53460 53461	
HEMORRHOIDAL DISEASE	231	455XX	
CHOLECYSTITIS W CHOLELITHIAS	232	57400 57401 57410 57411 57430 57431 57440	
CHOLECYSTITIS W CHOLELITHIAS	232	57441	
CELLULITIS FACE/HEAD/NECK	233	68200 68210	
UPPER RESP TRACT EDEMA	233	47825	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
CELLULITIS FACE/HEAD/NECK	234	68200	68210
CELLULITIS OF HAND/FOOT	235	68240	68270
CELLULITIS EXC HEAD/HANDS/FT	236	68220 68230 68250 68260 68280 68290	
PILONIDAL CYST/ABSCCESS	237	685XX	
INGROWN NAIL	238	70300	
ONYCHIA/PARONYCHIA	238	68111	
INGROWN NAIL	239	70300	
DERMATITIS/DERMATOSIS/ECZEMA	240	690XX 692XX 37330 37331 37332 37334 69180	
DERMATITIS/DERMATOSIS/ECZEMA	240	69400 69410 69420 69430 99530	
DERMATITIS/DERMATOSIS/ECZEMA	241	DIAGNOSES DO NOT DISTINGUISH FROM PC 240	
BOILS FURUNCLES PYODERMA	242	680XX 68600	
DERMATOPHYTOSIS FEET	243	11040	
DERMATOPHYTOSIS ALL OTHERS	244	11000 11010 11020 11030 11050 11060 11080	
DERMATOPHYTOSIS ALL OTHERS	244	11090	
PEDICULOSIS ALL	245	13200 13210 13230 13290	
SCABIES ALL	246	133XX	
HERPES SMPLX/ZOST NO ENCEPHA	247	053XX 05400 05410 05411 05412 05413 05419	
HERPES SMPLX/ZOST NO ENCEPHA	247	05420 05440 05441 05442 05443 05444 05449	
HERPES SMPLX/ZOST NO ENCEPHA	247	05450 05460 05470 05471 05472 05473 05479	
HERPES SMPLX/ZOST NO ENCEPHA	247	05480 05490 37010	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
HYPERHYDROSIS (DYSHIDROSIS)	248	70581	
BLEPHARITIS ALL	249	37300 37301 37302 37380 37390	
CHRONIC CONJUNCTIVITIS	250	37210 37211 37212 37213 37214 37215	
CONJUNCTIVITIS ACUTE/NOT SPEC	251	37200 37201 37202 37203 37204 37205 37220	
CONJUNCTIVITIS ACUTE/NOT SPEC	251	37221 37222 37230 37231 37233 37239	
TRACHOMA ALL	252	076XX 077XX 13910	
CORNEAL ULCER	253	37000 37001 37002 37003 37004 37005 37006	
CORNEAL ULCER	253	37007	
CORNEAL ABRASION	254	91610	
IRIDOCYCLITIS CHRONIC	255	36410 36411	
IRIDOCYCLITS ACUT/SUBAC/UNSP	256	36400 36401 36402 36403 36404 36405 36420	
IRIDOCYCLITS ACUT/SUBAC/UNSP	256	36421 36422 36423 36424 36430	
EYE EXAMINATION	257	NO ICD9 EQUIVALENT	
REFRACTION/ACCOMMODATION DIS	258	367XX 36990	
OTITIS EXTERNA ALL	259	38010 38011 38012 38013 38014 38015 38016	
OTITIS EXTERNA ALL	259	38020 38021 38022 38023	
OTITIS MEDIA ACUTE SUPPURAT	260	38200 38201 38202	
MASTOIDITIS CHRONIC ALL	261	38310	
HEARING IMPAIRMENT	262	NO ICD9 EQUIVALENT	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
ALLERGIC RHINITIS ALL	264	477XX	47880
UPPER RESP INFECT ACUTE ALL	265	465XX	
BRONCHITIS ACUTE ALL	266	466XX	
ASTHMA STATUS ASTHMATICUS	267	49301	49311 49391
ASTHMA WMO STAT ASTHMATICUS	268	49300	49310 49390
ADULT RESP DISTRESS SYND SEV	269	NO ICD9	EQUIVALENT
ADULT RESP DISTRESS SYND MOD	270	NO ICD9	EQUIVALENT
FOOD POISON STAPH BACT TOXEM	271	NO ICD9	EQUIVALENT
FOOD POISON STAPHYLOCOCCAL	272	00500	
DIARRHEAL DIS INFECT ORIGIN	273	00900	00910 00920 00930
DIARRHEAL DIS WMO INFCT ORIG	274	NO ICD9	EQUIVALENT
GASTRITIS ACUTE ALL	275	53500	
PEPTIC ULC GASTR/DUOD UNCOMP	276	53100	53101 53130 53131 53140 53141 53170
PEPTIC ULC GASTR/DUOD UNCOMP	276	53171	53190 53191 53200 53201 53230 53231
PEPTIC ULC GASTR/DUOD UNCOMP	276	53240	53241 53270 53271 53290 53291 53300
PEPTIC ULC GASTR/DUOD UNCOMP	276	53301	53330 53331 53340 53341 53370 53371
PEPTIC ULC GASTR/DUOD UNCOMP	276	53390	53391 53400 53401 53430 53431 53440
PEPTIC ULC GASTR/DUOD UNCOMP	276	53441	53470 53471 53490 53491
REGIONAL ILEITIS DISABLING	277	NO ICD9	EQUIVALENT
REGIONAL ENTERITIS WMO CHRON	278	55500	55510 55520 55590

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9 CODES</u>
HELMINTHIASIS ALL	279	121XX 122XX 123XX 124XX 125XX 126XX 127XX
HELMINTHIASIS ALL	279	128XX
INTRACRAN HEMOR NON-TRAUMAT	280	431XX 432XX
COMA	280	78000
INTRACRAN HEMOR NON-TRAUMAT	281	431XX 432XX
ESSENTIAL HYPERTENSION	282	401XX
ISCHEMIC HEART DISEASE	283	411XX 412XX 413XX 414XX 42920
PHLEBITIS DEEP VESSELS	284	45110 45111 45119
PHLEBITIS WMO DEEP VESSELS	285	45100 45120 45180 45181 45189 45190
STD-GENITAL ULCERS	286	09900
STD	287	090XX 091XX 092XX 093XX 094XX 095XX 096XX
STD	287	097XX 098XX 09910 09920 09980 09990
STD-URETHRITIS	288	597XX 09940
GLOMERULONEPHRITIS ACUTE	289	580XX
GLOMERULONEPHRITIS CHRONIC	290	582XX
PYELONEPHRITIS ACUTE	291	59010 59011
NEPHROTIC SYNDROME ALL	292	581XX
CALC URIN TRCT NOT KID/URETR	293	59400 59410 59480 59490

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
EPIDIDYMITIS/CYSTI/PROST ACU	294	604XX	59500 60100
BALANOPOSTHITIS ALL	295	60710	
PYELONEPHRITIS CHRONIC	296	59000	59001
CALCULUS OF KIDNEY/URETER	297	59200	59210 59290
MIGRAINE ALL	299	346XX	
MENINGOCOCCAL INFECTION	300	036XX	
MENINGITIS DUE TO ENTOVIRUS	301	047XX	
MUMPS ALL	302	072XX	
INFECTIOUS MONONUCLEOSIS ALL	303	075XX	
HEPATITIS INFECTUS VIRAL ALL	304	070XX	
PANCREATITIS ACUTE ALL	305	57700	
CIRRHOSIS W CHRON HEPATITIS	306	57140	57141 57149
CIRRHOSIS WMO HEPATITIS	307	57100	57110 57120 57130 57150 57160 57180
CIRRHOSIS WMO HEPATITIS	307	57190	57230
MALARIA PERNICIOUS COMPLIC	308	08490	
MALARIA WMO PERNICIOUS COMP	309	08400	08410 08420 08430 08440 08450 08460
MALARIA WMO PERNICIOUS COMP	309	08470	08480

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
FEBRILE ILLNESS SEVERE	310	78060	
FEBRILE ILLNESS MODERATE	311	DIAGNOSES DO NOT DISTINGUISH FROM PC 310	
CUTANEUS ULC INC LEISHMANIA	312	085XX	
JOINT DISORDERS	313	711XX 712XX 713XX 714XX 715XX	71030 71040
JOINT DISORDERS	313	71600 71601 71602 71603 71604	71605 71606
JOINT DISORDERS	313	71609 71610 71611 71612 71613	71614 71615
JOINT DISORDERS	313	71616 71617 71618 71619 71650	71651 71652
JOINT DISORDERS	313	71653 71654 71655 71656 71657	71658 71659
JOINT DISORDERS	313	71661 71662 71663 71664 71665	71666 71667
JOINT DISORDERS	313	71668 71669 71690 71691 71692	71693 71694
JOINT DISORDERS	313	71695 71696 71697 71698 71699	71700 71710
JOINT DISORDERS	313	71720 71730 71740 71741 71742	71743 71749
JOINT DISORDERS	313	71750 71760 71770 71780 71790	71800 71801
JOINT DISORDERS	313	71802 71803 71804 71805 71806	71807 71808
JOINT DISORDERS	313	71809 71810 71811 71812 71813	71814 71815
JOINT DISORDERS	313	71816 71817 71818 71819 71820	71821 71822
JOINT DISORDERS	313	71823 71824 71825 71826 71827	71828 71829
JOINT DISORDERS	313	71830 71831 71832 71833 71834	71835 71836
JOINT DISORDERS	313	71837 71838 71839 71840 71841	71842 71843
JOINT DISORDERS	313	71844 71845 71846 71847 71848	71849 71850
JOINT DISORDERS	313	71851 71852 71853 71854 71855	71856 71857
JOINT DISORDERS	313	71858 71859 71880 71881 71882	71883 71884
JOINT DISORDERS	313	71885 71886 71887 71888 71889	71890 71891
JOINT DISORDERS	313	71892 71893 71894 71895 71896	71897 71898
JOINT DISORDERS	313	71899 71900 71901 71902 71903	71904 71905
JOINT DISORDERS	313	71906 71907 71908 71909 71910	71911 71912
JOINT DISORDERS	313	71913 71914 71915 71916 71917	71918 71919
JOINT DISORDERS	313	71930 71931 71932 71933 71934	71935 71936
JOINT DISORDERS	313	71937 71938 71939 71950 71951	71952 71953
JOINT DISORDERS	313	71954 71955 71956 71957 71958	71959 71960
JOINT DISORDERS	313	71961 71962 71963 71964 71965	71966 71967
JOINT DISORDERS	313	71968 71981 71982 71985 71986	71991 71992
JOINT DISORDERS	313	71995 71996 72000 72020 72080	72081 72089
JOINT DISORDERS	313	72090 72100 72120 72130 72150	72160 72170
JOINT DISORDERS	313	72180 72190 72191 72290 72300	72350 72370
JOINT DISORDERS	313	72390 72400 72460 72470 72480	72490 72500
JOINT DISORDERS	313	72600 72620 72820 72900 72910	72931 73840
MOTION SICKNESS	314	99460	

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
DIABETES MELLITUS	315	250XX	35720 36200
THYROID DISORDER	316	240XX	241XX 242XX 243XX 244XX 245XX 246XX
THYROID DISORDER	316	252XX	
ANEMIA ALL	317	280XX	281XX 282XX 283XX 284XX 285XX
SCHISTOSOMIASIS ALL	318	120XX	
NEOPLASMS MALIGNANT	319	140XX	141XX 142XX 143XX 144XX 145XX 146XX
NEOPLASMS MALIGNANT	319	147XX	148XX 149XX 150XX 151XX 152XX 153XX
NEOPLASMS MALIGNANT	319	154XX	155XX 156XX 157XX 158XX 159XX 160XX
NEOPLASMS MALIGNANT	319	161XX	162XX 163XX 164XX 165XX 170XX 171XX
NEOPLASMS MALIGNANT	319	172XX	173XX 174XX 175XX 179XX 180XX 181XX
NEOPLASMS MALIGNANT	319	182XX	183XX 184XX 185XX 186XX 187XX 188XX
NEOPLASMS MALIGNANT	319	189XX	190XX 191XX 192XX 193XX 194XX 195XX
NEOPLASMS MALIGNANT	319	196XX	197XX 198XX 199XX 200XX 201XX 203XX
NEOPLASMS MALIGNANT	319	204XX	205XX 206XX 208XX 230XX 231XX 232XX
NEOPLASMS MALIGNANT	319	234XX	20200 20201 20202 20203 20204 20205
NEOPLASMS MALIGNANT	319	20206	20207 20208 20210 20211 20212 20213
NEOPLASMS MALIGNANT	319	20214	20215 20216 20217 20218 20230 20231
NEOPLASMS MALIGNANT	319	20232	20233 20234 20235 20236 20237 20238
NEOPLASMS MALIGNANT	319	20240	20241 20242 20243 20244 20245 20246
NEOPLASMS MALIGNANT	319	20247	20248 20280 20281 20282 20283 20284
NEOPLASMS MALIGNANT	319	20285	20286 20287 20288 20290 20291 20292
NEOPLASMS MALIGNANT	319	20293	20294 20295 20296 20297 20298 20700
NEOPLASMS MALIGNANT	319	20720	20780 23300 23310 23320 23330 23350
NEOPLASMS MALIGNANT	319	23360	23370 23390 23560 23570 23580 23590
NEOPLASMS MALIGNANT	319	23600	23610 23800 23810 23820 23830 23860
NEOPLASMS MALIGNANT	319	23870	23900 23910 23920 23930
NEOPLASMS BENIGN	320	210XX	212XX 213XX 214XX 215XX 216XX 217XX
NEOPLASMS BENIGN	320	218XX	219XX 220XX 221XX 223XX 224XX 225XX
NEOPLASMS BENIGN	320	226XX	227XX 228XX 229XX 21100 21110 21120
NEOPLASMS BENIGN	320	21130	21140 21150 21160 21180 21190 22200
NEOPLASMS BENIGN	320	22210	22230 22240 22280 22290 56900 61620
NEOPLASMS BENIGN	320	62100	62370 62460
PSYCHOSIS	321	290XX	292XX 293XX 294XX 295XX 296XX 297XX
PSYCHOSIS	321	298XX	299XX

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
CONDUCT DISORDERS	322	312XX	30930 30940
NON-PSYCHOTIC MENTAL DISORD	323	V40XX V60XX V62XX	V6100 V6110 V6120 V6121
NON-PSYCHOTIC MENTAL DISORD	323	V6129 V6130 V6140	V6141 V6149 V6160 V6170
NON-PSYCHOTIC MENTAL DISORD	323	V6180 V6190 300XX	301XX 302XX 306XX 307XX
NON-PSYCHOTIC MENTAL DISORD	323	311XX 313XX 314XX	315XX 316XX 317XX 318XX
NON-PSYCHOTIC MENTAL DISORD	323	319XX 347XX	31000 31010 31080 31090 78050
NON-PSYCHOTIC MENTAL DISORD	323	78070 79920	79930
ALCOHOL DEPENDENCY	324	291XX 303XX	35750 53530
ALCOHOL DEPENDENCY SYNDROME	325	303XX	35750 53530
ALCOHOL MISUSE/SIMPLE INTOXI	326	30540	30550
DRUG DEPENDENCY NON-ALCOHOL	327	3040A 3040B 3040C	3040D 3040E 3040F 3040G
DRUG DEPENDENCY NON-ALCOHOL	327	3040H 3040K 3040L	3040M 3040N 3041A 3041B
DRUG DEPENDENCY NON-ALCOHOL	327	3041C 3041D 3041E	3041F 3041G 3041H 3041K
DRUG DEPENDENCY NON-ALCOHOL	327	3041L 3041M 3041N	3042A 3042B 3042C 3042D
DRUG DEPENDENCY NON-ALCOHOL	327	3042E 3042F 3042G	3042H 3042K 3042L 3042M
DRUG DEPENDENCY NON-ALCOHOL	327	3042N 3043A 3043B	3043C 3043D 3043E 3043F
DRUG DEPENDENCY NON-ALCOHOL	327	3043G 3043H 3043K	3043L 3043M 3043N 30400
DRUG DEPENDENCY NON-ALCOHOL	327	30410 30420	30430
MULT DRUG MISUSE EXCL ALCOH	328	3051A 3051B 3051C	3051D 3051E 3051F 3051G
MULT DRUG MISUSE EXCL ALCOH	328	3051H 3051K 3051L	3051M 3051N 30510
SINGLE DRUG MISUSE EXCL ALC	329	3050A 3050B 3050C	3050D 3050E 3050F 3050G
SINGLE DRUG MISUSE EXCL ALC	329	3050H 3050K 3050L	3050M 3050N 30500 V9110
SINGLE DRUG MISUSE EXCL ALC	329	V9120	
POST TRAUMATIC STRESS SYNDR	332	30981	
POST TRAUMATIC STRESS SYNDR	333	DIAGNOSES DO NOT DISTIGUISH FROM PC	332

<u>DESCRIPTION</u>	<u>PC</u>	<u>ICD9</u>	<u>CODES</u>
ADJUSTMENT REACTION WMO PTSD	334	30900	30910 30920 30921 30922 30923 30924
ADJUSTMENT REACTION WMO PTSD	334	30928	30929 30930 30940 30980 30982 30983
ADJUSTMENT REACTION WMO PTSD	334	30989	30990
ACUTE REACTION TO STRESS	335	30800	30810 30820 30830 30840 30890
ACUTE REACTION TO STRESS	336	DIAGNOSES DO NOT DISTINGUISH FROM PC 335	
TRANSIENT SITUATIONAL DISTUR	337	NO ICD9 EQUIVALENT	
DYSFUNCTIONAL UTERINE BLEEDING	340	62140	62520 62540 62580 62610 62620 62630
DYSFUNCTIONAL UTERINE BLEEDING	340	62640	62650 62660 62680 62700 62710
DYSMENORRHEA/AMENORRHEA	341	62530	62600
PELVIC INFLAMMATORY DISEASE	342	61430	61440 61450 61460 61470 61480 61490
CERVICITIS/ENDOCERV W LEUKOR	343	61600	62350
VULVOVAGINITIS	344	615XX	
TUBAL PREG ABORTIVE OUTCOME	345	63315	
TUBAL PREGNANCY	346	63310	63311 63312 63314
ABORTION SPONTANEOUS	347	634XX	63900 63901 63902 63903 63904 63905
ABORTION SPONTANEOUS	347	63910	63911 63912 63913 63914 63915 63920
ABORTION SPONTANEOUS	347	63921	63922 63923 63924 63925 63930 63931
ABORTION SPONTANEOUS	347	63932	63933 63934 63935 63940 63941 63942
ABORTION SPONTANEOUS	347	63943	63944 63945 63950 63951 63952 63953
ABORTION SPONTANEOUS	347	63954	
PREGNANCY UNCOMPLICATED	348	65000	

TABLE 3. PATIENT CONDITION CRITERIA LACKING ICD-9 EQUIVALENTS
OR EXACT TRANSLATIONS*

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
001	sucking wound
005	shock
006	shock
013	vascular injury
021	without fracture or neurovascular injury
024	soft tissue injury
025	soft tissue injury
028	skin and soft tissue
031	with/without nondepressed linear skull fracture severe - from 2 - 12 hours
032	with/without nondepressed linear skull fracture moderate - less than 2 hours
033	with/without nondepressed linear skull fracture severe
034	with/without nondepressed linear skull fracture moderate - from 12 - 24 hours, without focal neurological deficit
035	with intracranial hematoma, with/without nondepressed linear skull fracture severe - large hematoma (including epidural hematoma) with rapidly deteriorating comatose patient
036	Cerebral contusion, closed, with/without nondepressed linear skull fracture severe - with/without focal neurological deficit
037	with depressed skull fracture severe - with massive depression

* Patient condition criteria with inexact ICD-9 translations are in bold text.

PC COMPONENT LACKING ICD-9 PARALLEL

- 038 with depressed moderate skull fracture - no associated hematoma or significant effect from depression
- 039 severe - depressed skull fracture with intracranial fragments
- 040 moderate - without intracranial fragments and/or depressed skull fracture
- 041 wound scalp open without cerebral injury or skull fracture severe - scalp with avulsion of tissue
- 042 open without cerebral injury or skull fracture moderate - scalp laceration
- 043 severe fractures
- 044 moderate fractures
- 045 jaws and neck, open, lacerated with associated fractures, excluding spinal fractures, severe
- 046 open, lacerated excluding spinal fractures, moderate - without airway obstruction
- 047 face, open, lacerated, contused without fractures, severe, or major vessel involvement
- 048 contused without fractures, moderate - without airway obstruction or major vessel involvement
- 049 without airway involvement, unstable, requiring open reduction
- 050 without airway involvement, mild displacement, stable
- 052 lacerated
- 053 lacerated, moderate - no foreign body retained, without loss of vitreous fluid, patient has hyphema
- 055 tympanic membrane, perforated, lacerated, ruptured, severe
- 056 perforated, lacerated, ruptured, moderate - involvement of drum only
- 057 unstable lesion
- 058 stable lesion

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
059	respiratory involvement
060	(progressive)
061	with respiratory distress
062	(progressive)
065	with bone injury, severe - joint involvement
066	with bone injury, moderate - no joint involvement
067	upper
068	penetrating, lacerated, without fracture, severe
069	penetrating lacerated, severe
070	penetrating, lacerated, without fracture, moderate - without nerve or vascular injury
073	severe
074	moderate
075	lacerated, penetrating, without bone, nerve or vascular injury, with major loss of muscle tissue, severe - requiring major debridement
076	lacerated, penetrating, moderate - not requiring major debridement
077	lacerated, penetrating, nerve and vascular injury
078	lacerated, penetrating, nerve and vascular injury
079	requiring closed reduction
080	moderate - not requiring closed reduction
081	lacerated without fractures, severe
082	lacerated without fractures, moderate - limited to sublimis tendon involvement
083	lacerated, contused, crushed, involving fractures of carpals and/or metacarpals

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
084	lacerated, contused, requiring rehabilitation
085	lacerated, contused, not requiring rehabilitation
087	moderate
088	acute
093	severe
094	moderate
095	severe - one lung with pulmonary contusion and acute, severe respiratory distress
097	superficial, lacerated, contused, abraded, avulsed, requiring major debridement
098	superficial, lacerated, contused, abraded, avulsed, not requiring major debridement
099	penetrating, acute, severe respiratory distress
100	thorax (anterior or posterior), penetrating, moderate respiratory distress
101	penetrating, perforating, lacerating to include tamponade
102	lacerated, abraded, contused, avulsed without entering abdominal cavity, severe - requiring major debridement
103	lacerated, abraded, contused, avulsed without entering abdominal cavity, not requiring major debridement
104	acute (crush, fracture)
105	acute (crush, fracture)
106	acute (crush, fracture), all cases
107	abdominal cavity, with lacerating, penetrating, perforating wound to the large bowel
108	abdominal cavity, with lacerating, penetrating, perforating wound to the small bowel, without major or multiple resections

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
109	abdominal cavity, with penetrating, perforating wound of liver, major damage
110	abdominal cavity, with penetrating, perforating abdominal wound with lacerated liver
111	abdominal cavity, with penetrating, perforating
112	with lacerated, penetrated, perforated wound with shattered kidney
113	penetrating, perforating wound, initially repaired, but subsequent nephrectomy
114	penetrating, perforating wound, kidney, moderate
115	with lacerated, penetrating, perforating wound with shattered bladder
116	with lacerated, penetrating, perforating wound with lacerated bladder
117	severe - open, lacerated, penetrating, perforating, and avulsed
118	moderate - open, lacerated, contused and abraded
119	displaced fracture, with associated soft tissue damage
120	non-displaced fracture, with associated soft tissue damage
121	penetrating, perforating wounds to multiple pelvic structures
122	penetrating, perforating wounds to pelvic colon only (male or female)
123	severe - lacerated, avulsed, crushed
124	moderate - abraded
125	severe - lacerated, avulsed, crushed
126	moderate - abraded, contused
129	without fracture, nerve or vascular injury, requiring major debridement

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
130	without fracture, nerve or vascular injury, not requiring major debridement
131	lacerated, penetrating, perforating
132	lacerated, penetrating, perforating, limb salvageable
133	thigh, lacerated, penetrating, perforating, limb salvageable
134	lacerated, penetrating, perforating, with joint space penetration
135	lacerated, penetrating, perforating, with joint space penetration, articular cartilage damage, no bone injury
136	lacerated, penetrating, perforating, with joint space penetration, no bone or articular cartilage injury
138	lacerated, penetrating, perforating, without fractures, requiring major debridement
139	lacerated, penetrating, perforating, not requiring major debridement
140	lacerated, penetrating, perforating
141	lacerated, penetrating, perforating
142	lacerated, penetrating, perforating
143	displaced, requiring reduction
144	nondisplaced, not requiring reduction
145	lacerated, contused, without fractures, but requiring major debridement
146	lacerated, contused, not requiring major debridement
147	penetrating, perforating
148	penetrating, perforating
149	penetrating, perforating
155	traumatic, complete, requiring hip disarticulation
159	thermal, full thickness, greater than 15%

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
162	greater than 5%, eye involvement
164	less than 5%, no eye involvement
167	greater than 15% less than 20%
170	greater than 5%, eye involvement
172	less than 5% of total, no eye involvement
175	greater than 15%
178	greater than 5%, eye involvement
180	less than 5%, no eye involvement
181	burns, phosphorous (WP), all cases
184	subluxation without fracture, chronic, requiring correction
185	temporomandibular joint, subluxation without fracture, acute, initial injury
186	with nerve root compression, resistant bed rest/traction
187	with nerve root compression, responding to bed rest/traction
188	lumbosacral, chronic, all cases
189	severe
190	moderate-ambulatory
191	acute
192	acute
194	acute
195	acute
196	acute
197	acute, severe
198	acute, moderate-no thumb involvement

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
199	acute
200	tear, ligaments, knee, acute, complete rupture
201	tear, ligaments, knee, acute, incomplete rupture
202	chronic, with torn meniscus and/or ligament laxity
204	acute, with complete ligament rupture
205	closed, acute, grade 2, incomplete ligament rupture
206	acute
207	trench foot, immersion foot, severe - vesicle formation
208	trench foot, immersion foot, moderate - no vesicle formation
209	chilblains, all cases
210	full skin thickness or deeper involvement
211	frostbite, less than full skin thickness
216	moderate-all cases
224	with perforation, rupture
225	without perforation, rupture
226	complicated, sliding
227	uncomplicated, no sliding
230	and/or penetrating
235	involving face or weight bearing areas
236	other than face or weight bearing areas
238	bilateral, with secondary infections unresolvable at echelon 2
240	seborrheic, contact, others, affecting weight bearing or pressure areas
241	seborrheic, contact, others, not affecting weight bearing areas

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
243	severe
248	hyperhydrosis
250	severe
251	moderate
255	acute, marked visual impairment
257	refraction and accommodation disorders, refraction required
267	with disabling symptoms or repeated attacks
271	disabling symptoms
272	moderate symptoms
273	severe
274	moderate
277	regional ileitis, disabling symptoms, unresponsive to treatment
278	responds to treatment
280	spontaneous, severe - semicomatose with possible respiratory distress without associated hematoma
281	spontaneous, moderate - awake without respiratory distress or severe neurologic deficit
286	and/or adenopathy
287	complicated
293	not causing obstruction
296	acute, secondary to obstruction
297	causing obstruction, impacted
300	encephalitis, complicated
301	encephalitis, uncomplicated

<u>PC</u>	<u>COMPONENT LACKING ICD-9 PARALLEL</u>
306	severe - hemorrhagic complications
307	moderate - no hemorrhage
308	severe
309	moderate
310	acute, severe
311	acute, moderate
328	severe - atypical, no dependency
329	mild or moderate
332	stress reaction, severe - unresponsive to treatment
333	stress reaction, severe - delayed improvement
337	stress reaction, acute, mild
345	impending rupture/rupture
346	not ruptured

TABLE 4. FREQUENCIES OF BATTLE INJURY DIAGNOSES UNACCOUNTED FOR
BY PATIENT CONDITION CODES; U.S. MARINES IN VIETNAM

<u>DISORDER</u>	<u>N</u>
FRACTURE OF PATELLA/TIBIA AND FIBULA/ANKLE	633
FRACTURE OF HUMERUS/RADIUS AND ULNA	422
FRACTURE OF FEMUR	283
FRACTURE OF TARSAL/METATARSAL BONE	260
FRACTURE OF BOTH LOWER LIMBS/LOWER WITH UPPER LIMB	189
FRACTURE OF SKULL	175
FRACTURE OF VERTEBRAL COLUMN	151
FRACTURE OF OTHER, MULTIPLE, AND ILL-DEFINED	113
FRACTURE OF UPPER LIMB(S) OTHER AND MULTIPLE ILL-DEFINED	64
FRACTURE OF PELVIS	62
FRACTURE OF SCAPULA/CLAVICLE	50
FRACTURE OF RIB(S)	47
FRACTURE OF TRUNK MULTIPLE AND ILL-DEFINED	15
FRACTURE OF CARPAL BONE(S)/PHALANGES OF HAND	4
SUBTOTAL	<u>2468</u>
OPEN WOUNDS LOWER LIMBS BOTH MULTIPLE	5637
OPEN WOUNDS OF HEAD, NECK, AND TRUNK OTHER MULTIPLE & UNSPECIFIED	1146
OPEN WOUND EAR	424
OPEN WOUND LOWER LIMB MULTIPLE & UNSPECIFIED	351
OPEN WOUND HAND EXCEPT FINGER(S) ALONE	6
SUBTOTAL	<u>7564</u>
TRAUMATIC AMPUTATION LEG(S)/TOE(S) COMPLETE/PARTIAL	325
TRAUMATIC AMPUTATION OF ARM(S) & HAND(S) COMPLETE PARTIAL	67
SUBTOTAL	<u>392</u>

<u>DISORDER</u>	<u>N</u>
CONTUSION TRUNK/LIMB/HAND/FOOT/OTHER	388
SUBTOTAL	<u>388</u>
SPRAINS AND STRAINS	276
DISLOCATION SHOULDER/ELBOW/WRIST/FINGER/HIP/KNEE/ANKLE/OTHER	189
SUPERFICIAL INJURY OF FACE, NECK	118
SUBTOTAL	<u>583</u>
SUBARACHNOID SUBDURAL EXTRADURAL HEMORRHAGE	737
CONCUSSION/CEREBRAL LACERATION CONTUSION	176
LACERATION HEAD OTHER AND UNSPECIFIED	18
SUBTOTAL	<u>931</u>
INJURY TO HEART/ABDOMINAL ORGANS	309
TRAUMATIC PNEUMOTHORAX AND HEMOTHORAX	108
SUBTOTAL	<u>417</u>
INJURY TO NERVE(S)	133
SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY	25
INJURY TO OTHER NERVES	22
SUBTOTAL	<u>180</u>
BURN HEAD/LIMBS/TRUNK/OTHER	691
FOREIGN BODY EYE & ADNEXA	45
SUBTOTAL	<u>736</u>

<u>DISORDER</u>	<u>N</u>
INJURY OTHER AND UNSPECIFIED	61
EARLY COMPLICATION OF TRAUMA	38
COMPLICATIONS OF SURGICAL PROCEDURE	13
TOXIC EFFECT OF OTHER GAS FUME OR VAPOR	9
EFFECTS OF RADIATION/REDUCED TEMPERATURE/DAMPNESS/AIR PRESSURE/OTHER	9
ADVERSE EFFECT OF ANTIBIOTICS/SEDATIVES/HYPNOTICS/UNSPECIFIED DRUG	7
SUBTOTAL	<u>137</u>
 TOTAL	 13,796

TABLE 5. FREQUENCIES OF DISEASE AND NON-BATTLE INJURY DIAGNOSES
UNACCOUNTED FOR BY PATIENT CONDITION CODES; U.S. MARINES IN VIETNAM

INFECTIVE AND PARASITIC DISEASES

<u>DISORDER</u>	<u>N</u>
AMEBIASIS	1143
SHIGELLOSIS	890
VIRAL DISEASES-OTHER	842
STREPTOCOCCAL SORE THROAT AND SCARLET FEVER	255
INFECTIOUS AND PARASITIC DISEASES OTHER	214
PROTOZOAL INTESTINAL DISEASE- OTHER	148
DISEASES DUE TO VIRUSES AND CHLAMYDIA - OTHER	148
SEPTICEMIA	133
LEPTOSPIROSIS	117
ENCEPHALITIS ACUTE EPIDEMIC/VIRAL	83
SARCROIDOSIS	80
MYCOSES - OTHER	49
TUBERCULOSIS PULMONARY	48
COXSACKIE VIRUS SPECIFIC DISEASE DUE TO	42
SALMONELLA INFECTIONS	39
FOOD POISONING (BACTERIAL)	31
TUBERCULOSIS OTHER RESPIRATORY	22
BACTERIAL DISEASE - OTHER	19
INTESTINAL INFECTIONS DUE TO OTHER ORGANISMS	16
INTESTINAL PARASITOSIS - UNSPECIFIED	14
CANDIDIASIS	12
EXANTHEMATA VIRAL- OTHER	10
TUBERCULOSIS OF OTHER ORGANS	10
CHICKEN POX	9
ERYSIPELAS	9
RUBELLA	8
MELIOIDOSIS	8
HISTOPLASMOSIS	8
DERMATOMYCOSIS - OTHER	7
POLIOMYELITIS ACUTE	6
TUBERCULOSIS LATE EFFECTS OF	5
TUBERCULOSIS OF GENITOURINARY SYSTEM	4
SUBTOTAL	4429

NEOPLASMS

<u>DISORDER</u>	<u>N</u>
NEOPLASM UNSPECIFIED OTHER AND UNSPECIFIED ORGAN	101
NEOPLASM UNSPECIFIED NATURE	40
NEOPLASM UNSPECIFIED - OTHER GENITOURINARY ORGAN	31
SUBTOTAL	172

ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES

<u>DISORDER</u>	<u>N</u>
ALLERGIC DISORDERS-OTHER	105
NUTRITIONAL DEFICIENCIES - OTHER	73
METABOLISM OTHER AND UNSPECIFIED DISORDER OF	61
PLASMA PROTEIN ABNORMALITIES	30
GOUT	29
OTHER ENDOCRINE AND METABOLIC DYSFUNCTIONS	26
OBESITY AND HYPERALIMENTATION	23
PANCREATIC INTERNAL SECRETION OTHER DISORDER OF	12
SUBTOTAL	359

DISEASES OF BLOOD AND BLOOD FORMING ORGANS

<u>DISORDER</u>	<u>N</u>
BLOOD AND BLOOD FORMING ORGANS OTHER DISEASES OF	259
SUBTOTAL	259

DISEASES OF NERVOUS SYSTEM AND SENSE ORGANS

<u>DISORDER</u>	<u>N</u>
DISEASE OF PERIPHERAL NERVES EXCEPT CRANIAL OR AUTONOMIC	679
PARALYTIC SYNDROMES - OTHER	438
DEAFNESS	421
DISEASE OF EYE	377
OTITIS MEDIA WITHOUT MENTION OF MASTOIDITIS	278
DISEASE OF PERIPHERAL NERVES EXCEPT AUTONOMIC	89
EPILEPSY	88
MIDDLE EAR AND MASTOID OTHER DISORDER OF	85
DISEASE OF RETINA AND OPTIC NERVE	82
UNSPECIFIED FORMS NEURALGIA AND NEURITIS	75
CATARACT	65
ENCEPHALITIS MYELITIS AND ENCEPHALOMYELITIS	52
BLINDNESS AND LOW VISION	50
MENINGITIS	49
FACIAL NERVE DISORDER	49
KERATITIS	48
INFLAMMATION OF UVEAL TRACT	47
STRABISMUS AND OTHER DISORDER OF BINOCULAR EYE MOVEMENTS	46
INFLAMMATION DISEASE OF EYE	44
SPINAL CORD OTHER DISEASE OF	40
INFLAMMATION OF EYELIDS	34
OTHER DISORDERS OF NERVOUS SYSTEM AND SENSE ORGANS	31
DISEASES OF BRAIN-OTHER	27
RETINAL DETACHMENTS AND DEFECTS	25
INFLAMMATION DISEASE OF EAR	23
OTITIS MEDIA WITH MASTOIDITIS	22
SCIATIC NERVE DISORDER	22
INFLAMMATION OF OPTIC NERVE AND RETINA	21
AUTONOMIC NERVOUS SYSTEM DISORDER	19
CORNEAL OPACITY	18
DISORDER OF CONJUNCTIVA/PTERYGIUM	18
BRACHIAL NEURITIS	15
ANTERIOR HORN DISEASE/MOTOR NEURON DISEASE	12
GLAUCOMA	10
INFLAMMATORY AND TOXIC NEUROPATHY	9
CRANIAL NERVES OTHER DISORDERS OF	9
SUBTOTAL	<u>3417</u>

DISEASES OF THE CIRCULATORY SYSTEM

<u>DISORDER</u>	<u>N</u>
VARICOSE VEINS OF OTHER SITES	127
HYPERTENSIVE DISEASE	101
HEART FAILURE	98
OTHER CIRCULATORY DISORDERS	54
ARTERIOSCLEROSIS OF CORONARY ARTERIES	47
VARICOSE VEINS OF LOWER EXTREMITIES	43
DISEASE CIRCULATORY SYSTEM	40
UNSPECIFIED DISEASE HEART	36
ACUTE PULMONARY HEART DISEASE	35
RHEUMATIC FEVER	25
ANEURYSM OTHER	21
LYMPHATIC CHANNELS NONINFECTIOUS DISORDER OF	19
GANGRENE	18
CIRCULATORY SYSTEM OTHER DISORDER OF	16
DISEASE OF ARTERIES	15
ANGINA PECTORIS	12
ARTERIAL EMBOLISM AND THROMBOSIS	12
MYOCARDIAL INFARCTION	9
ENDOCARDIUM OTHER DISEASES OF	9
VASCULAR LESION AFFECTING CENTRAL NERVOUS SYSTEM - OTHER	8
MYOCARDIAL INSUFFICIENCY	7
CEREBRAL EMBOLISM AND THROMBOSIS	7
RHEUMATIC HEART DISEASE	6
MITRAL VALVE DISEASE OF	5
ACUTE PERICARDITIS	5
HEART DISEASE SPECIFIED AS ARTERIOSCLEROTIC	5
SUBTOTAL	780

DISEASES OF THE RESPIRATORY SYSTEM

<u>DISORDER</u>	<u>N</u>
ACUTE TONSILLITIS	695
BRONCHITIS	665
ACUTE PHARYNGITIS	367
INFLUENZA	298
PNEUMONIA OTHER AND UNSPECIFIED	297
PNEUMONIA LOBAR	211
PNEUMONIA PRIMARY ATYPICAL	186
BRONCHITIS ACUTE ALL	159
PLEURISY	154
CHRONIC DISEASE OF TONSILS AND ADENOIDS	125
EMPHYSEMA/OTHER DISEASES OF RESPIRATORY SYSTEM	108
SINUSITIS CHRONIC OR UNSPECIFIED	94
DEVIATIC NASAL SYSTEM	85
PNEUMOTHORAX	82
PNEUMONIA BRONCHOPNEUMONIA	75
PERITONSILLAR ABSCESS	66
UPPER RESPIRATORY TRACT OTHER DISEASE OF	63
ACUTE SINUSITIS	37
PNEUMONIA UNSPECIFIED	35
PNEUMOCOCCAL PNEUMONIA	34
EMPHYEMA	28
ACUTE NASOPHARYNGITIS	22
VIRAL PNEUMONIA	13
OTHER RESPIRATORY DISORDERS	11
NASAL POLYPS	11
ACUTE LARYNGITIS AND TRACHEITIS	10
CHRONIC PHARYNGITIS AND NASOPHARYNGITIS	10
CHRONIC LARYNGITIS AND LARYNGOTRACHEITIS	10
PULMONARY CONGESTION AND HYPOSTASIS	8
CHRONIC INTERSTITIAL PNEUMONIA	8
BRONCHIECTASIS	7
SUBTOTAL	3974

DISEASES OF THE DIGESTIVE SYSTEM

<u>DISORDER</u>	<u>N</u>
GASTROENTERITIS & COLITIS EXCLUDING ULCERATIVE NONINFECTIOUS ORIGIN	2769
APPENDICITIS	509
GASTRITIS AND DUODENITIS	239
DISEASES OF INTESTINES AND PERITONEUM	179
HERNIA OF ABDOMINAL CAVITY OTHER WMO OBSTRUCTION OR GANGRENE	128
DISEASES OF LIVER	101
ABSCESS OF ANAL AND RECTAL REGIONS	84
ANAL FISSURE AND FISTULA	81
TOOTH DEVELOPMENT AND ERUPTION DISORDER OF	81
GINGIVAL AND PERIDONTAL DISEASE	69
INTESTINAL OBSTRUCTION WITHOUT MENTION OF HERNIA	63
FUNCTIONAL DIGESTIVE DISORDER NOT ELSEWHERE CLASSIFIED	51
HARD TISSUES OF TEETH DISEASE OF	48
ESOPHAGUS DISEASE OF	40
SALIVARY GLANDS DISEASE OF	35
CHOLECYSTITIS AND CHOLANGITIS	33
TONGUE DISEASE AND OTHER CONDITIONS OF	30
CHOLELITHIASIS	21
PERITONITIS	19
STOMACH FUNCTION DISORDER OF	15
ACUTE AND SUBACUTE NECROSIS OF LIVER	14
DISEASES OF GALLBLADDER AND BILIARY DUCTS	13
TEETH AND SUPPORTING STRUCTURES OTHER DISEASE AND CONDITIONS OF	13
ORAL SOFT TISSUES DISEASE OF EXCLUDING LESIONS SPECIFIC	12
STOMACH AND DUODENUM OTHER DISORDERS OF	10
DIVERTICULA OF INTESTINE	10
DENTOFACIAL ANOMALIES INCLUDING MALOCCLUSION	8
HERNIA OF ABDOMINAL CAVITY OTHER WITH OBSTRUCTION	6
PANCREATIC DISEASES	5
SUBTOTAL	<u>4686</u>

DISEASES OF THE GENITOURINARY SYSTEM

<u>DISORDER</u>	<u>N</u>
REDUNDANT PREPUCE AND PHIMOSIS	445
MALE GENITAL ORGANS OTHER DISORDER OF	317
PROSTATE INFLAMMATORY DISEASE OF	255
URETHRA AND URINARY TRACT OTHER DISORDER OF	174
KIDNEY INFECTIONS OF	95
CYSTITIS	90
HYDROCELE	66
BREAST OTHER DISEASES OF	69
KIDNEY AND URETER OTHER DISORDER OF	59
NEPHRITIS	46
URETHRAL STRICTURE	31
BLADDER OTHER DISORDER OF	26
HYDRONEPHROSIS	18
SALPINGITIS AND OOPHORITIS ACUTE	1
SUBTOTAL	<u>1692</u>

COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM

<u>DISORDER</u>	<u>N</u>
PREGNANCY OTHER COMPLICATION NOT ELSEWHERE CLASSIFIED	5
SUBTOTAL	<u>5</u>

DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE

<u>DISORDER</u>	<u>N</u>
SOFT TISSUES OTHER DISORDER OF	1085
DISORDERS OF SWEAT AND SEBACEOUS GLANDS	468
SKIN AND SUBCUTANEOUS TISSUE OTHER DISORDERS	265
NAIL DISEASE OF	181
URTICARIA	173
IMPETIGO	77
HAIR AND HAIR FOLLICLES DISEASE OF	50
ERYTHEMATOUS CONDITIONS	50
HYPERTROPHIC AND ATROPHIC CONDITIONS OF SKIN	49
PSORIASIS AND SIMILIAR DISORDER	44
CORNS AND CALLOSITIES	41
PRURITUS AND RELATED CONDITIONS	35
LYMPHADENITIS ACUTE	13
LICHEN	9
SUBTOTAL	<u>2540</u>

DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE

<u>DISORDER</u>	<u>N</u>
DEFORMITY OTHER ACQUIRED	285
OTHER DISEASES MUSCLE TENDON FASCIA	254
OTHER DISEASES OF BONE	222
OSTEOMYELITIS AND PERIOSTITIS	142
FLAT FOOT	96
OSTEOCHONDROSIS	80
CERVICAL REGION OTHER DISORDER OF	45
INFECTIVE MYOSITIS AND OTHER INFLAMMATORY DISEASES	28
TOE ACQUIRED DEFORMITIES OF	27
SPINE CURVATURE OF	20
BUNION	10
SUBTOTAL	<u>1209</u>

CONGENITAL ANOMALIES

<u>DISORDER</u>	<u>N</u>
MUSCULOSKELETAL OTHER CONGENITAL ANOMALIES	98
MALFORMATIONS OF BONE AND JOINT OTHER AND UNSPECIFIED	50
CONGENITAL ANOMALIES OTHER AND UNSPECIFIED	46
GENITAL ORGANS CONGENITAL ABNORMALITIES OF	24
DIGESTIVE SYSTEM OTHER CONGENITAL ABNORMALITIES	15
CONGENITAL ANOMALIES GENITOURINARY SYSTEM	14
OTHER CONGENITAL MALFORMATION NERVOUS SYSTEM SENSE ORGANS	12
SPINA BIFIDA AND MENINGOCELE	11
CIRCULATORY SYSTEM OTHER CONGENITAL ANOMALIES OF	10
LIMBS OTHER CONGENITAL ANOMALIES OF	10
BULBUS CORDIS ANOMALIES AND CARDIAC SEPTAL CLOSURE	9
SUBTOTAL	299

CERTAIN CAUSES OF PERINATAL MORBIDITY AND MORTALITY

<u>DISORDER</u>	<u>N</u>
UMBILICAL SEPSIS	1
SUBTOTAL	1

SYMPTOMS AND ILL-DEFINED CONDITIONS

<u>DISORDER</u>	<u>N</u>
SYMPTOMS REFERABLE TO ABDOMINAL LOWER GASTROINTESTINAL TRACT	1098
OBSERVATION NO NEED OF FURTHER MEDICAL CARE	943
SYMPTOMS REFERABLE TO LIMBS AND JOINTS	551
GENERAL SYMPTOMS NERVOUS AND MUSCULOSKELETAL SYSTEMS	537
SYMPTOMS RELATED TO CARDIOVASCULAR AND LYMPHATIC SYSTEMS	305
SYMPTOMS REFERABLE TO RESPIRATORY SYMPTOMS	296
HEADACHE	273
ABNORMAL URINARY CONSTITUENTS	221
OTHER ILL-DEFINED/UNKNOWN CAUSES MORBIDITY MORTALITY	209
SYMPTOMS RELATED TO NERVOUS SYSTEM AND SPECIAL SENSES	139
SYMPTOMS RELATED TO GENITOURINARY SYSTEM	127
OTHER GENERAL SYMPTOMS	94
SYMPTOMS REFERABLE TO UPPER GASTROINTESTINAL TRACT	84
UREMIA	12
SUBTOTAL	<u>4886</u>

ACCIDENTS, POISONINGS, AND VIOLENCE

<u>DISORDER</u>	<u>N</u>
FRACTURE OF TIBIA AND FIBULA	418
FRACTURE OF RADIUS AND ULNA	299
FRACTURE OF TARSAL AND METATARSAL BONES ONE OR MORE	269
FRACTURE OF VERTEBRAL COLUMN WITHOUT MENTION OF SPINAL CORD INJURY	181
FRACTURE OF ANKLE	151
FRACTURE OF FEMUR OTHER OR UNSPECIFIED PARTS	106
FRACTURE OF HUMERUS	104
FRACTURE OF ONE OR MORE PHALANGES OF FOOT	101
FRACTURE OF RIB(S) STERNUM LARYNX AND TRACHEA	57
FRACTURE OF CLAVICLE	55
FRACTURE OF FACE BONES	52
FRACTURE OF SKULL OTHER AND UNQUALIFIED	51
FRACTURE OF LOWER LIMB OTHER MULTIPLE AND ILL-DEFINED	49
FRACTURE OF PELVIS	46
FRACTURE OF PATELLA	40
FRACTURE OF UPPER LIMB ILL-DEFINED	35
FRACTURE MULTIPLE BOTH LOWER OR LOWER W/UPPER OR LOWER W/RIBS/STERNUM	31
FRACTURE OF UNSPECIFIED BONES	31
FRACTURE OF NECK OF FEMUR	19
FRACTURE OF CARPAL BONE(S)	20
FRACTURE OF BASE OF SKULL	18
FRACTURE OF BONES OF TRUNK ILL-DEFINED	17
FRACTURE OF PHALANGES OF HAND ONE OR MORE	17
FRACTURE OF SCAPULA	16
FRACTURE OF METACARPAL BONE(S)	15
FRACTURE OF SKULL OR FACE WITH OTHER BONES	14
FRACTURE OF VERTEBRAL COLUMN WITH SPINAL CORD INJURY	11
FRACTURE OF VAULT OF SKULL	9
FRACTURE OF UPPER LIMB WITH RIB(S) AND STERNUM	6
 SUBTOTAL	 2235
 DISLOCATION OF KNEE	 561
DISLOCATION OF SHOULDER	168
DISLOCATION OF ELBOW	25
DISLOCATIONS OF OTHER MULTIPLE AND ILL-DEFINED	21
DISLOCATION OF FINGER	18
DISLOCATION OF ANKLE	18
DISLOCATION OF HIP	14
DISLOCATION OF FOOT	12
DISLOCATION OF WRIST	6
 SUBTOTAL	 843

ACCIDENTS, POISONINGS AND VIOLENCE (Cont'd)

<u>DISORDER</u>	<u>N</u>
SPRAINS AND STRAINS OF BACK OTHER AND UNSPECIFIED PARTS	977
SPRAINS AND STRAINS OTHER AND ILL-DEFINED	94
SPRAINS AND STRAINS OF SHOULDER AND UPPER ARM	41
SPRAINS AND STRAINS OF HIP AND THIGH	31
SPRAINS AND STRAINS OF WRIST AND HAND	9
SPRAINS AND STRAINS OF ELBOW AND FOREARM	7
SUBTOTAL	<u>1159</u>
INTRACRANIAL INJURY OTHER AND UNSPECIFIED	94
CONCUSSION	69
CEREBRAL LACERATION AND CONTUSION	57
TRAUMATIC PNEUMOTHORAX AND HEMOTHORAX	30
SUBARACHNOID SUBDURAL EXTRADURAL HEMORRHAGE POST INJURY	13
SUBTOTAL	<u>258</u>
INJURY TO KIDNEY	27
INJURY TO GASTROINTESTINAL TRACT	22
INJURY TO INTRATHORACIC ORGANS OTHER AND UNSPECIFIED	18
INJURY TO SPLEEN	15
INJURY TO OTHER INTRA-ABDOMINAL ORGANS	15
INJURY TO UNSPECIFIED OR ILL-DEFINED ORGANS	10
INJURY TO PELVIC ORGANS	9
SUBTOTAL	<u>116</u>
TRAUMATIC AMPUTATION OF LEG(S) COMPLETE PARTIAL	29
TRAUMATIC AMPUTATION OF ARM(S) AND HAND(S) COMPLETE PARTIAL	25
TRAUMATIC AMPUTATION OF TOE(S) COMPLETE PARTIAL	23
SUBTOTAL	<u>77</u>

ACCIDENTS, POISONINGS AND VIOLENCE (Cont'd)

<u>DISORDER</u>	<u>N</u>
OPEN WOUNDS MULTIPLE OF OTHER AND UNSPECIFIED SITES EXCLUDING LIMBS	253
OPEN WOUND OF OTHER AND UNSPECIFIED SITES EXCEPT LIMBS	202
OPEN WOUND OF EAR	125
OPEN WOUNDS MULTIPLE OF UPPER WITH LOWER LIMB	102
OPEN WOUNDS LOWER LIMBS BOTH MULTIPLE	92
OPEN WOUNDS OF LOWER LIMB MULTIPLE AND UNSPECIFIED	59
OPEN WOUNDS OF HEAD WITH LIMB(S) MULTIPLE	35
OPEN WOUND OF HAND EXCLUDING FINGER(S) ALONE	28
OPEN WOUND OF HEAD	19
OPEN WOUNDS MULTIPLE OF FACE WITH LIMB	13
SUBTOTAL	927

<u>DISORDER</u>	<u>N</u>
SUPERFICIAL INJURY OF OTHER MULTIPLE AND UNSPECIFIED SITES	188
SUPERFICIAL INJURY OF FACE NECK AND SCALP	114
SUPERFICIAL INJURY OF HIP THIGH LEG AND ANKLE	37
SUPERFICIAL INJURY OF FOOT AND TOE(S)	37
SUPERFICIAL INJURY OF TRUNK	34
SUPERFICIAL INJURY OF HAND(S) EXCEPT FINGER(S) ALONE	22
SUPERFICIAL INJURY OF ELBOW FOREARM AND WRIST	16
SUBTOTAL	446

CONTUSION OF TRUNK	346
CONTUSION OF HIP THIGH LEG AND ANKLE	345
CONTUSION OF OTHER MULTIPLE UNSPECIFIED SITES	224
CONTUSION OF FOOT AND TOE(S)	104
CONTUSION OF ELBOW FOREARM AND WRIST	45
CONTUSION OF SHOULDER AND UPPER ARM	34
SUBTOTAL	1098

FOREIGN BODY EYE AND ADNEXA	66
FOREIGN BODY OTHER	7
FOREIGN BODY IN DIGESTIVE SYSTEM	6
SUBTOTAL	79

ACCIDENTS, POISONINGS AND VIOLENCE (Cont'd)

<u>DISORDER</u>	<u>N</u>
BURN(S) OTHER, OTHER UNSPECIFIED PARTS	408
BURN OF TRUNK WITH LIMB(S)	186
BURN OF LOWER LIMB(S)	129
BURN OF MULTIPLE SPEC SITES, BURN OF FACE HEAD NECK W/TRUNK & LIMBS	118
BURN OF WRIST(S) AND HAND(S)	104
BURN OF UPPER LIMB EXCEPT WRIST AND HAND	86
BURN OF FACE HEAD AND NECK	60
BURN OF FACE HEAD NECK WITH LIMB(S)	57
BURN OF TRUNK	57
BURN CONFINED TO EYE	39
SUBTOTAL	<u>1243</u>
INJURY TO OTHER CRANIAL NERVES	69
INJURY TO OTHER NERVE INCLUDING INJURY IN SEVERAL PARTS	42
INJURY TO NERVE(S) WRIST AND HAND	39
INJURY TO NERVE(S) FOREARM	37
INJURY TO NERVE(S) IN UPPER ARM	35
INJURY TO NERVE(S) LOWER LEG	27
SPINAL CORD INJURY WITHOUT EVIDENCE OF SPINAL BONE INJURY	27
INJURY TO NERVE(S) ANKLE AND FOOT	19
INJURY TO NERVE(S) THIGH	18
SUBTOTAL	<u>313</u>
CERTAIN EARLY COMPLICATIONS OF TRAUMA	188
OTHER COMPLICATIONS OF MEDICAL CARE	169
TOXIC EFFECT OF OTHER SUBSTANCES CHIEFLY OF NON-MEDICINAL SOURCE	155
COMPLICATIONS OF PROCEDURES OTHER NOT ELSEWHERE CLASSIFIED	132
INJURY OTHER AND UNSPECIFIED	99
ADVERSE EFFECT OTHER UNSPECIFIED DRUGS	78
TOXIC EFFECT OF SUBSTANCES	40
ADVERSE EFFECT ANALGESICS ANTIPYRETICS ANTI-INFECTIVES OTHER	32
EFFECTS OF OTHER EXTERNAL CAUSES	25
NERVOUS SYSTEM DISORDER OTHER AND UNSPECIFIED	24
POISONING BY SEDATIVES AND HYPNOTICS	15
EFFECTS OF HEAT AND LIGHT	11
ADVERSE EFFECT OF PSYCHOTHERAPEUTICS	8
TOXIC EFFECT OF ALCOHOL, ETHYL OTHER AND UNSPECIFIED	8
SUBTOTAL	<u>984</u>

SUPPLEMENTARY CLASSIFICATION—SPECIAL CONDITIONS

<u>DISORDER</u>	<u>N</u>
FOLLOW-UP EXAMINATION NO NEED FOR CARE OR LIMITED CARE	1014
MEDICAL AND SURGICAL AFTERCARE	283
MEDICAL OR SPECIAL EXAMINATION	151
OTHER SUPPLEMENTARY CLASSIFICATIONS	71
SKIN IMMUNITY AND SENSITIZATION TESTS	70
SUBTOTAL	<u>1590</u>
 TOTAL	 40,076

TABLE 6. PROPOSED ICD-9 BATTLE INJURY DIAGNOSTIC CATEGORIES

<u>DESCRIPTION</u>	<u>ICD9 CODES</u>
MULTIPLE FRAGMENT WOUND BRAIN	851XX 854XX 90700
MULTIPLE FRAGMENT WOUND CHEST	875XX 90840
MULTIPLE FRAGMENT WOUND BACK	876XX
WOUND BRAIN	851XX 854XX 90700
OPEN WOUND CHEST	875XX 90840
OPEN WOUND BACK	876XX
OPEN WOUND SHOULDER/UPPER ARM	880XX
OPEN WOUND ELBOW/FOREARM/WRIST	881XX
OPEN WOUND HAND(S)/FINGERS	882XX 883XX 90610
OPEN WOUND UPPER LIMB(S) MULTIPLE	884XX
OPEN WOUND BUTTOCKS	877XX
OPEN WOUND HIP/THIGH	890XX
OPEN WOUND KNEE/LOWER LEG/ANKLE	891XX
OPEN WOUND FOOT/TOES	892XX 893XX

* ICD9 diagnostic codes ending in XX represent entire range of five digit codes starting with the shown first three numbers.

<u>DESCRIPTION</u>	<u>ICD9 CODES</u>
OPEN WOUND LOWER LIMB(S) MULTIPLE	894XX
OPEN WOUNDS MULT/OTH/UNSPECIFIED	879XX 90600 90830 95830
CONTUSION SHOULDER/UPPER ARM	92300 92301 92302 92303 92309 92700 92701
CONTUSION SHOULDER/UPPER ARM	92702 92703 92709
CONTUSION ELBOW/FOREARM/WRIST	92310 92311 92710 92711
CONTUSION HAND/FINGERS	92320 92321 92720 92721
CONTUSION HIP/THIGH/LEG/ANKLE	92400 92401 92410 92411 92450 92800 92801
CONTUSION HIP/THIGH/LEG/ANKLE	92810 92811 92890
CONTUSION FOOT AND TOE(S)	92420 92421 92430 92820 92821 92830
CONTUSION TRUNK	922XX 926XX
AMPUTATION FOOT	896XX
AMPUTATION LEG(S)	897XX
AMPUTATION TOES	895XX
AMPUTATION FINGERS/THUMBS	885XX 886XX 90590
AMPUTATION ARMS/HANDS	887XX
PNEUMO/HEMOTHORAX	860XX
INTRACRANIAL HEMORRAGE POST INJ	852XX 853XX

<u>DESCRIPTION</u>	<u>ICD9 CODES</u>
CONCUSSION	850XX 31020
SPINAL CORD LESION NO BONE INJURY	952XX
INJURY NERVES LOWER LEG	90750 95620 95640 95650 95690
INJURY NERVES UPPER ARM	95340 95500 95540 95550 95570 95590
INJURY NERVES FOREARM	NO ICD9 EQUIVALENT
INJURY NERVES THIGH	95600 95610
INJURY NERVES FOOT & ANKLE	95630
INJURY NERVES WRIST/HAND	90740 95510 95520 95530 95560
INJURY NERVES CRANIAL	950XX 951XX 90710
INJURY NERVES OTHER/UNSPECIFIED	954XX 957XX 90730 90790 95300 95310 95320
INJURY NERVES OTHER/UNSPECIFIED	95330 95350 95380 95390 95580 95680
SUPERFICIAL WOUNDS	910XX 911XX 912XX 913XX 914XX 915XX 916XX
SUPERFICIAL WOUNDS	917XX 918XX 919XX 90620
MULTIPLE ORGAN DAMAGE	862XX 868XX 869XX 90800 90810 90820
WOUND LIVER	864XX
WOUND KIDNEY	866XX
WOUND PELVIC ORGANS	867XX

<u>DESCRIPTION</u>	<u>ICD9 CODES</u>
WOUND SPLEEN	865XX
WOUND GASTROINTESTINAL TRACT	863XX
WOUND EXTERNAL GENITALIA	878XX
INJURY HEART/LUNG	861XX
WOUND SCALP	NO ICD9 EQUIVALENT
WOUND FACE JAWS NECK	874XX 920XX 925XX
EYE WOUND	870XX 871XX 921XX
OPEN WOUND/PERFORATION EAR	872XX 73870 38420 38421 38422 38423 38424
OPEN WOUND/PERFORATION EAR	38425
FOREIGN BODY EYE	930XX 36050 36051 36052 36053 36054 36055
FOREIGN BODY EYE	36059 36060 36061 36062 36063 36064 36065
FOREIGN BODY EYE	36069 37660 90850
BURNS LOWER EXTREMITIES	945XX 90670
BURNS TRUNK	942XX
BURNS HEAD & NECK	941XX 90650 94700
BURN EYE	940XX
BURNS UPPER EXTREMITIES	943XX 944XX 90660
BURNS MULT/OTHER/UNSPECIFIED	946XX 947XX 948XX 949XX 90680 90690

<u>DESCRIPTION</u>	<u>ICD9 CODES</u>
STRAINS/SPRAINS ANKLE/FOOT	845XX
STRAINS/SPRAINS SACROILIAC	846XX
SPRAIN WRIST/HAND/FINGERS	842XX
STRAINS/SPRAINS KNEE	844XX
STRAINS/SPRAINS MULT/OTH/UNSPEC	840XX 841XX 843XX 847XX 848XX 90570 90580
FRACTURE HAND/WRIST/FINGERS	814XX 815XX 816XX 817XX
FRACTURE TIBIA & FIBULA	823XX 90540
FRACTURE PELVIS	808XX
FRACTURE SCAPULA	811XX
FRAC SKULL LOC < 1 HOUR	80002 80012 80022 80032 80042 80052 80062
FRAC SKULL LOC < 1 HOUR	80072 80082 80092 80102 80112 80122 80132
FRAC SKULL LOC < 1 HOUR	80142 80152 80162 80172 80182 80192 80302
FRAC SKULL LOC < 1 HOUR	80312 80322 80332 80342 80352 80362 80372
FRAC SKULL LOC < 1 HOUR	80382 80392
FRAC SKULL LOC < 1-24 HOURS	80003 80013 80023 80033 80043 80053 80063
FRAC SKULL LOC < 1-24 HOURS	80073 80083 80093 80103 80113 80123 80133
FRAC SKULL LOC < 1-24 HOURS	80143 80153 80163 80173 80183 80193 80303
FRAC SKULL LOC < 1-24 HOURS	80313 80323 80333 80343 80353 80363 80373
FRAC SKULL LOC < 1-24 HOURS	80383 80393

DESCRIPTIONICD9 CODES

FRAC SKULL LOC > 24 HOURS	80004	80005	80014	80015	80024	80025	80034
FRAC SKULL LOC > 24 HOURS	80035	80044	80045	80054	80055	80064	80065
FRAC SKULL LOC > 24 HOURS	80074	80075	80084	80085	80094	80095	80104
FRAC SKULL LOC > 24 HOURS	80105	80114	80115	80124	80125	80134	80135
FRAC SKULL LOC > 24 HOURS	80144	80145	80154	80155	80164	80165	80174
FRAC SKULL LOC > 24 HOURS	80175	80184	80185	80194	80195	80304	80305
FRAC SKULL LOC > 24 HOURS	80314	80315	80324	80325	80334	80335	80344
FRAC SKULL LOC > 24 HOURS	80345	80354	80355	80364	80365	80374	80375
FRAC SKULL LOC > 24 HOURS	80384	80385	80394	80395			

FRAC SKULL NO/UNSPEC LOC	80000	80001	80006	80009	80011	80016	80019
FRAC SKULL NO/UNSPEC LOC	80020	80021	80026	80029	80030	80031	80036
FRAC SKULL NO/UNSPEC LOC	80039	80040	80041	80046	80049	80050	80051
FRAC SKULL NO/UNSPEC LOC	80056	80059	80060	80061	80066	80069	80070
FRAC SKULL NO/UNSPEC LOC	80071	80076	80079	80080	80081	80086	80089
FRAC SKULL NO/UNSPEC LOC	80090	80091	80096	80099	80100	80101	80106
FRAC SKULL NO/UNSPEC LOC	80109	80111	80116	80119	80120	80121	80126
FRAC SKULL NO/UNSPEC LOC	80129	80130	80131	80136	80139	80140	80141
FRAC SKULL NO/UNSPEC LOC	80146	80149	80150	80151	80156	80159	80160
FRAC SKULL NO/UNSPEC LOC	80161	80166	80169	80170	80171	80176	80179
FRAC SKULL NO/UNSPEC LOC	80180	80181	80186	80189	80190	80191	80196
FRAC SKULL NO/UNSPEC LOC	80199	80300	80301	80306	80309	80311	80316
FRAC SKULL NO/UNSPEC LOC	80319	80320	80321	80326	80329	80330	80331
FRAC SKULL NO/UNSPEC LOC	80336	80339	80340	80341	80346	80349	80350
FRAC SKULL NO/UNSPEC LOC	80351	80356	80359	80360	80361	80366	80369
FRAC SKULL NO/UNSPEC LOC	80370	80371	80376	80379	80380	80381	80386
FRAC SKULL NO/UNSPEC LOC	80389	80390	80391	80396	80399		

FRACTURE FEMUR	820XX	821XX	90530
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FRACTURE UPPER LIMB	818XX
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FRACTURE LOWER LIMB	827XX
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FRACT RIB/STERNUM/LARYNX/TRACHEA	807XX
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FRACTURE RADIUS/ULNA	813XX	90520
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FRACTURE HUMERUS	812XX
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<u>DESCRIPTION</u>	<u>ICD9 CODES</u>
FRACTURE CLAVICLE	810XX
FRACTURE SPINE NO CORD DAMAGE	805XX 90510
FRACTURE SPINE WITH CORD DAMAGE	806XX 90720
FRACTURE ANKLE/FOOT/TOES	824XX 825XX 826XX
FRACTURE PATELLA	822XX
FRACTURE FACE BONES	802XX
FRACTURE MULT/OTHER/UNSPECIFIED	804XX 809XX 819XX 828XX 829XX 73380 73381
FRACTURE MULT/OTHER/UNSPECIFIED	73382 90500 90550
DISLOCATION KNEE	836XX
DISLOCATION ANKLE	837XX
DISLOCATION HIP	835XX
DISLOCATION SHOULDER	831XX
DISLOCATION FOOT/TOES	838XX
DISLOCATION HAND/WRIST	833XX
DISLOCATION FINGERS	834XX
DISLOCATION ELBOW	832XX
DISLOCATION JAW	830XX

DESCRIPTION**ICD9 CODES**

TOXIC INHALATION

986XX 987XX

TRAUMA MULTIPLE OTHER & UNSPEC

839XX 873XX 931XX 932XX 933XX 934XX 935XX

TRAUMA MULTIPLE OTHER & UNSPEC

936XX 937XX 938XX 939XX 959XX 90560 90630

TRAUMA MULTIPLE OTHER & UNSPEC

90640 90990 92380 92390 92440 92480 92490

TRAUMA MULTIPLE OTHER & UNSPEC

92780 92790 92880 92900 92990

TRAUMA-EARLY COMPLICATIONS

900XX 901XX 902XX 903XX 904XX 95800 95810

TRAUMA-EARLY COMPLICATIONS

95820 95840 95850 95860 95870 95880

COMPLICAT MEDICAL CARE/SURGERY

978XX 979XX 996XX 997XX 998XX 999XX 34900

COMPLICAT MEDICAL CARE/SURGERY

34910 42940 45700 51900 56420 56430 56440

COMPLICAT MEDICAL CARE/SURGERY

56960 57600 57930 67410 67411 67412 67413

COMPLICAT MEDICAL CARE/SURGERY

67414 67415 67420 67421 67422 67423 67424

COMPLICAT MEDICAL CARE/SURGERY

67425 67430 67431 67432 67433 67434 67435

COMPLICAT MEDICAL CARE/SURGERY

90860 90890 90930 90940 96460 99500 99520

TABLE 7. PROPOSED ICD-9 DISEASE AND NON-BATTLE INJURY DIAGNOSTIC CATEGORIES

<u>DESCRIPTION</u>	<u>ICD9 CODES</u>
FEBRILE ILLNESS EXCL PNEUMONIA	002XX 020XX 021XX 023XX 026XX 034XX 060XX
FEBRILE ILLNESS EXCL PNEUMONIA	061XX 065XX 066XX 080XX 081XX 082XX 083XX
FEBRILE ILLNESS EXCL PNEUMONIA	084XX 086XX 087XX 088XX 07860 07870
FOOD POISONING BACTERIAL	005XX
DIARRHEAL DISEASE/DYSENTERY	004XX 009XX
ENTERITIS SPECIFIED ORGANISM	008XX
TUBERCULOSIS ALL TYPES	010XX 011XX 012XX 013XX 014XX 015XX 016XX
TUBERCULOSIS ALL TYPES	017XX 018XX 137XX
MENINGOCOCCAL INFECTIONS	036XX
HERPES SIMPLEX & HERPES ZOSTER	053XX 054XX
ENCEPHALITIS	062XX 063XX 064XX 04620 04980 04990 13900
HEPATITIS INFECTIOUS VIRAL	070XX
ANIMAL BITES/RABIES EXPOSURE	071XX
MUMPS	072XX
INFECTIOUS MONONUCLEOSIS	075XX
TRACHOMA	076XX 077XX 13910

* ICD9 diagnostic codes ending in XX represent entire range of five digit codes starting with the shown first three numbers.

DESCRIPTIONICD9 CODESSTD-SYPHILIS
STD-SYPHILIS090XX 091XX 092XX 093XX 094XX 095XX 096XX
097XX

STD-GONOCOCCAL INFECTIONS

098XX

STD-OTHER VENEREAL DISEASES

09900 09910 09920 09940 09980 09990

DERMATOPHYTOSIS & DERMATOMYCOSIS

110XX 111XX

HELMINTHIASIS
HELMINTHIASIS120XX 121XX 122XX 123XX 124XX 125XX 126XX
127XX 128XX

PEDICULOSIS

13200 13210 13230 13290

SCABIES

133XX

INFECTIVE & PARASITIC DIS OTHER	001XX	003XX	006XX	007XX	022XX	02400	02500
INFECTIVE & PARASITIC DIS OTHER	027XX	030XX	031XX	032XX	033XX	03500	03700
INFECTIVE & PARASITIC DIS OTHER	038XX	039XX	040XX	041XX	042XX	043XX	044XX
INFECTIVE & PARASITIC DIS OTHER	045XX	047XX	04800	050XX	051XX	052XX	055XX
INFECTIVE & PARASITIC DIS OTHER	056XX	057XX	073XX	074XX	085XX	100XX	101XX
INFECTIVE & PARASITIC DIS OTHER	102XX	103XX	104XX	112XX	114XX	115XX	116XX
INFECTIVE & PARASITIC DIS OTHER	117XX	11800	12900	130XX	131XX	134XX	13500
INFECTIVE & PARASITIC DIS OTHER	136XX	04680	04690	04900	04910	07800	07810
INFECTIVE & PARASITIC DIS OTHER	07820	07830	07840	07850	07880	07881	07882
INFECTIVE & PARASITIC DIS OTHER	07889	07900	07910	07920	07980	07990	09930
INFECTIVE & PARASITIC DIS OTHER	13220	13980	27914	27915	27916	77100	77110
INFECTIVE & PARASITIC DIS OTHER	77120	77130	77170	77180	V7370	V7371	V7372
INFECTIVE & PARASITIC DIS OTHER	V7373	V7374	V7375	V7376	V7379	13800	

DESCRIPTIONICD9 CODES

NEOPLASMS MALIGNANT	140XX	141XX	142XX	143XX	144XX	145XX	146XX
NEOPLASMS MALIGNANT	147XX	148XX	149XX	150XX	151XX	152XX	153XX
NEOPLASMS MALIGNANT	154XX	155XX	156XX	157XX	158XX	159XX	160XX
NEOPLASMS MALIGNANT	161XX	162XX	163XX	164XX	165XX	170XX	171XX
NEOPLASMS MALIGNANT	172XX	173XX	174XX	175XX	17900	180XX	18100
NEOPLASMS MALIGNANT	182XX	183XX	184XX	18500	186XX	187XX	188XX
NEOPLASMS MALIGNANT	189XX	190XX	191XX	192XX	19300	194XX	195XX
NEOPLASMS MALIGNANT	196XX	197XX	198XX	199XX	200XX	201XX	203XX
NEOPLASMS MALIGNANT	204XX	205XX	206XX	208XX	231XX	232XX	20200
NEOPLASMS MALIGNANT	20201	20202	20203	20204	20205	20206	20207
NEOPLASMS MALIGNANT	20208	20210	20211	20212	20213	20214	20215
NEOPLASMS MALIGNANT	20216	20217	20218	20230	20231	20232	20233
NEOPLASMS MALIGNANT	20234	20235	20236	20237	20238	20240	20241
NEOPLASMS MALIGNANT	20242	20243	20244	20245	20246	20247	20248
NEOPLASMS MALIGNANT	20280	20281	20282	20283	20284	20285	20286
NEOPLASMS MALIGNANT	20287	20288	20290	20291	20292	20293	20294
NEOPLASMS MALIGNANT	20295	20296	20297	20298	20700	20720	20780
NEOPLASMS MALIGNANT	23010	23020	23030	23040	23050	23060	23070
NEOPLASMS MALIGNANT	23080	23090	23300	23310	23320	23520	23530
NEOPLASMS MALIGNANT	23540	23550	23560	23570	23580	23590	23600
NEOPLASMS MALIGNANT	23610	23800	23810	23820	23830	23860	23870
NEOPLASMS MALIGNANT	23900	23910	23920	23930			

NEOPLASMS BENIGN & UNSPECIFIED	210XX	212XX	213XX	214XX	215XX	216XX	21700
NEOPLASMS BENIGN & UNSPECIFIED	218XX	219XX	22000	221XX	223XX	224XX	225XX
NEOPLASMS BENIGN & UNSPECIFIED	22600	227XX	228XX	229XX	234XX	21100	21110
NEOPLASMS BENIGN & UNSPECIFIED	21120	21130	21140	21150	21160	21180	21190
NEOPLASMS BENIGN & UNSPECIFIED	22200	22210	22230	22240	22280	22290	23000
NEOPLASMS BENIGN & UNSPECIFIED	23330	23350	23360	23370	23390	23500	23510
NEOPLASMS BENIGN & UNSPECIFIED	23620	23630	23640	23660	23670	23690	23691
NEOPLASMS BENIGN & UNSPECIFIED	23699	23700	23710	23720	23730	23740	23750
NEOPLASMS BENIGN & UNSPECIFIED	23760	23790	23880	23890	23940	23950	23960
NEOPLASMS BENIGN & UNSPECIFIED	23970	23980	23990	56900	61620	62100	62370
NEOPLASMS BENIGN & UNSPECIFIED	62460	V7110					

THYROID DISORDER	240XX	241XX	242XX	243XX	244XX	245XX	246XX
THYROID DISORDER	252XX	77530	77540				

DIABETES MELLITUS	250XX	35720	36200	77510			
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ALLERGIC DISORDERS	NO ICD9 EQUIVALENT						
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DESCRIPTIONICD9 CODES

AVITAMINOSES/NUTRITIONAL DEFIC	260XX	261XX	262XX	263XX	264XX	265XX	266XX
AVITAMINOSES/NUTRITIONAL DEFIC	267XX	268XX	269XX	57900	57910	57920	57980
AVITAMINOSES/NUTRITIONAL DEFIC	57990	77930	78330				

OBESITY & HYPERALIMENTATION	278XX	78310	78360				
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ENDOCRINE/NUTRIT/METAB DIS OTHER	251XX	253XX	254XX	255XX	256XX	257XX	258XX
ENDOCRINE/NUTRIT/METAB DIS OTHER	259XX	270XX	271XX	272XX	273XX	274XX	275XX
ENDOCRINE/NUTRIT/METAB DIS OTHER	20250	21170	27700	27701	27710	27720	27730
ENDOCRINE/NUTRIT/METAB DIS OTHER	27740	27750	27780	27790	27900	27901	27902
ENDOCRINE/NUTRIT/METAB DIS OTHER	27903	27904	27905	27906	27909	27910	27911
ENDOCRINE/NUTRIT/METAB DIS OTHER	27912	27913	27919	27920	27930	27940	27980
ENDOCRINE/NUTRIT/METAB DIS OTHER	27990	35930	58810	77560	77580	77590	

ANEMIAS ALL TYPES	280XX	281XX	282XX	283XX	284XX	285XX	77400
ANEMIAS ALL TYPES	77660						

OTHER DIS BLOOD/BLOOD-FORMING ORG	286XX	287XX	288XX	289XX	20710	23840	77610
OTHER DIS BLOOD/BLOOD-FORMING ORG	77640	77670	77680	78270			

PSYCHOSIS	290XX	291XX	292XX	293XX	294XX	295XX	296XX
PSYCHOSIS	297XX	298XX	299XX				

ALCOHOL ABUSE	303XX	30540	30550	35750	53530		
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DRUG ABUSE NON-ALCOHOL	77950	304XX	3050A	3050B	3050C	3050D	3050E
DRUG ABUSE NON-ALCOHOL	3050F	3050G	3050H	3050K	3050L	3050M	3050N
DRUG ABUSE NON-ALCOHOL	3051A	3051B	3051C	3051D	3051E	3051F	3051G
DRUG ABUSE NON-ALCOHOL	3051H	3051K	3051L	3051M	3051N	3052A	3052B
DRUG ABUSE NON-ALCOHOL	3052C	3052D	3052E	3052F	3052G	3052H	3052K
DRUG ABUSE NON-ALCOHOL	3052L	3052M	3052N	3053A	3053B	3053C	3053D
DRUG ABUSE NON-ALCOHOL	3053E	3053F	3053G	3053H	3053K	3053L	3053M
DRUG ABUSE NON-ALCOHOL	3053N	30500	30510	30520	30530	V9110	V9120

DESCRIPTIONICD9 CODES

BEHAVIORAL DISORDERS OTHER	302XX	306XX	307XX	315XX	316XX	317XX	318XX
BEHAVIORAL DISORDERS OTHER	319XX	V40XX	V60XX	V62XX	V79XX	31000	31010
BEHAVIORAL DISORDERS OTHER	31080	31090	31100	34700	78050	78070	79920
BEHAVIORAL DISORDERS OTHER	79930	V1540	V6100	V6110	V6120	V6121	V6129
BEHAVIORAL DISORDERS OTHER	V6130	V6140	V6141	V6149	V6160	V6170	V6180
BEHAVIORAL DISORDERS OTHER	V6190	V6730	V7010	V7020	V7100	V7101	V7102
BEHAVIORAL DISORDERS OTHER	V7109						

ENCEPH/MYELITIS/ENCEPHALOMYELITIS	32300	32310	32320	32330	32340	32350	32360
ENCEPH/MYELITIS/ENCEPHALOMYELITIS	32370	32380	32390				

EPILEPSY	345XX
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MIGRAINE	346XX
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CONJUNCTIVA DISORDER OF	37200	37201	37202	37203	37204	37205	37210
CONJUNCTIVA DISORDER OF	37211	37212	37213	37214	37215	37220	37221
CONJUNCTIVA DISORDER OF	37222	37230	37231	37233	37239		

BLEPHARITIS/HORDEOLUM	37300	37301	37302	37310	37311	37312	37313
BLEPHARITIS/HORDEOLUM	37380	37390					

KERATITIS/IRITIS/CHOROIDITIS	36400	36401	36402	36403	36404	36405	36410
KERATITIS/IRITIS/CHOROIDITIS	36411	36420	36421	36422	36423	36424	36430
KERATITIS/IRITIS/CHOROIDITIS	37000	37001	37002	37003	37004	37005	37006
KERATITIS/IRITIS/CHOROIDITIS	37007	37020	37021	37022	37023	37024	37030
KERATITIS/IRITIS/CHOROIDITIS	37031	37032	37033	37034	37035	37040	37044
KERATITIS/IRITIS/CHOROIDITIS	37049	37050	37052	37054	37055	37059	37080
KERATITIS/IRITIS/CHOROIDITIS	37090						

REFRACTIVE & ACCOMMODATION ERRORS	367XX	36990
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OTITIS MEDIA & EXTERNA	382XX	38010	38011	38012	38013	38014	38015
OTITIS MEDIA & EXTERNA	38016	38020	38021	38022	38023	38100	38101
OTITIS MEDIA & EXTERNA	38102	38103	38104	38105	38106	38110	38119
OTITIS MEDIA & EXTERNA	38120	38129	38130	38140	38400	38401	38409
OTITIS MEDIA & EXTERNA	38410	38860	38861	38869			

DESCRIPTIONICD9 CODES

EAR & MASTOID OTHER DISEASES OF	383XX	385XX	386XX	387XX	389XX	38000	38001
EAR & MASTOID OTHER DISEASES OF	38002	38020	38030	38031	38032	38039	38040
EAR & MASTOID OTHER DISEASES OF	38050	38051	38052	38053	38080	38081	38085
EAR & MASTOID OTHER DISEASES OF	38090	38150	38151	38152	38160	38161	38162
EAR & MASTOID OTHER DISEASES OF	38163	38170	38180	38181	38189	38190	38380
EAR & MASTOID OTHER DISEASES OF	38381	38389	38480	38481	38482	38490	38800
EAR & MASTOID OTHER DISEASES OF	38801	38802	38810	38811	38812	38820	38850
EAR & MASTOID OTHER DISEASES OF	38870	38871	38872	38880	38890		

EYE OTHER DISEASE OF	361XX	363XX	365XX	366XX	371XX	374XX	375XX
EYE OTHER DISEASE OF	377XX	378XX	36000	36001	36002	36003	36004
EYE OTHER DISEASE OF	36010	36011	36012	36013	36014	36019	36020
EYE OTHER DISEASE OF	36030	36040	36080	36090	36210	36211	36212
EYE OTHER DISEASE OF	36213	36214	36215	36216	36217	36218	36220
EYE OTHER DISEASE OF	36221	36229	36230	36231	36232	36233	36234
EYE OTHER DISEASE OF	36235	36236	36237	36240	36241	36242	36243
EYE OTHER DISEASE OF	36250	36251	36252	36253	36254	36255	36256
EYE OTHER DISEASE OF	36257	36260	36261	36262	36263	36264	36265
EYE OTHER DISEASE OF	36266	36270	36271	36272	36273	36274	36275
EYE OTHER DISEASE OF	36276	36277	36280	36281	36282	36283	36384
EYE OTHER DISEASE OF	36385	36389	36390	36440	36450	36460	36470
EYE OTHER DISEASE OF	36480	36490	36800	36801	36802	36803	36850
EYE OTHER DISEASE OF	36851	36852	36853	36854	36855	36859	36860
EYE OTHER DISEASE OF	36900	36901	36902	36903	36904	36905	36906
EYE OTHER DISEASE OF	36907	36908	36910	36911	36912	36913	36914
EYE OTHER DISEASE OF	36915	36916	36917	36918	36920	36921	36922
EYE OTHER DISEASE OF	36923	36924	36925	36930	36940	36960	36961
EYE OTHER DISEASE OF	36962	36963	36964	36965	36966	36967	36968
EYE OTHER DISEASE OF	36969	36970	36971	36972	36973	36974	36975
EYE OTHER DISEASE OF	36976	36980	37060	37240	37241	37242	37243
EYE OTHER DISEASE OF	37244	37245	37250	37260	37270	37280	37290
EYE OTHER DISEASE OF	37320	37340	37350	37360	37600	37601	37602
EYE OTHER DISEASE OF	37603	37604	37610	37611	37612	37613	37620
EYE OTHER DISEASE OF	37630	37640	37650	37680	37690	37900	37901
EYE OTHER DISEASE OF	37902	37903	37904	37905	37906	37907	37909
EYE OTHER DISEASE OF	37910	37920	37930	37940	37980	37990	

DESCRIPTIONICD9 CODES

NERVOUS SYS/SENSE ORGAN DIS OTHER	320XX	321XX	322XX	324XX	325XX	326XX	330XX
NERVOUS SYS/SENSE ORGAN DIS OTHER	332XX	333XX	334XX	335XX	336XX	337XX	340XX
NERVOUS SYS/SENSE ORGAN DIS OTHER	341XX	342XX	343XX	350XX	351XX	352XX	354XX
NERVOUS SYS/SENSE ORGAN DIS OTHER	355XX	356XX	04600	04610	04630	33100	33110
NERVOUS SYS/SENSE ORGAN DIS OTHER	33130	33140	33150	33160	33170	33180	33181
NERVOUS SYS/SENSE ORGAN DIS OTHER	33189	33190	34400	34410	34420	34430	34440
NERVOUS SYS/SENSE ORGAN DIS OTHER	34450	34480	34490	34800	34810	34820	34840
NERVOUS SYS/SENSE ORGAN DIS OTHER	34880	34890	34920	34980	34981	34982	34989
NERVOUS SYS/SENSE ORGAN DIS OTHER	34990	35300	35310	35320	35330	35340	35380
NERVOUS SYS/SENSE ORGAN DIS OTHER	35390	35700	35710	35730	35740	35780	35790
NERVOUS SYS/SENSE ORGAN DIS OTHER	35880	35890	35900	35910	35920	35950	35960
NERVOUS SYS/SENSE ORGAN DIS OTHER	72430						

RHEUMATIC DIS W/WOUT HEART INVOLV 390XX 391XX 392XX 398XX

HYPERTENSIVE DISEASES 401XX 402XX 403XX 404XX 405XX

ISCHEMIC HEART DISEASE ALL FORMS 410XX 411XX 412XX 413XX 414XX 42920 42960

HEMORRHOIDAL DISEASE 455XX

PHLEBITIS & THROMBOPHLEBITIS 451XX

INTRACRANIAL HEMORRH NONTRAUMATIC 430XX 431XX 432XX

CEREBROVASCULAR DISEASES OTHER	430XX	431XX	432XX	433XX	434XX	435XX	436XX
CEREBROVASCULAR DISEASES OTHER	438XX	43700	34850	43710	43720	43740	43750
CEREBROVASCULAR DISEASES OTHER	43760	43780	43790				

ARTERIES/ARTERIOLES DISEASES OF	440XX	441XX	442XX	443XX	444XX	446XX	447XX
ARTERIES/ARTERIOLES DISEASES OF	41700	41710	43730	78540	99150		

DESCRIPTIONICD9 CODES

CIRCULATORY SYSTEM DISEASES OTHER	393XX	394XX	395XX	396XX	397XX	415XX	416XX
CIRCULATORY SYSTEM DISEASES OTHER	420XX	421XX	422XX	424XX	426XX	427XX	448XX
CIRCULATORY SYSTEM DISEASES OTHER	452XX	453XX	454XX	456XX	458XX	459XX	41780
CIRCULATORY SYSTEM DISEASES OTHER	41790	42300	42310	42320	42380	42390	42500
CIRCULATORY SYSTEM DISEASES OTHER	42510	42520	42540	42550	42560	42570	42580
CIRCULATORY SYSTEM DISEASES OTHER	42590	42800	42810	42900	42910	42930	42950
CIRCULATORY SYSTEM DISEASES OTHER	42980	42981	42982	42989	42990	45710	45720
CIRCULATORY SYSTEM DISEASES OTHER	45780	45790	78480	78520	78530	78590	

PHARYNGITIS/NASOPHARYNG/SINUSITIS 460XX 461XX 462XX 472XX 473XX 07930

UPPER RESPIRAT INFECTIONS ACUTE 465XX

BRONCHITIS & BRONCHIOLITIS 466XX 490XX 491XX

INFLUENZA 487XX

PNEUMONIA ALL TYPES	480XX	481XX	482XX	483XX	484XX	485XX	486XX
PNEUMONIA ALL TYPES	507XX	515XX	51610	51630	51710	51720	

ASTHMA 493XX

ALLERGIC RHINITIS/HAYFEVER 477XX 47880

PNEUMOTHORAX 512XX

RESPIRATORY SYSTEM DISEASES OTHER	46300	47000	471XX	474XX	47500	47600	49200
RESPIRATORY SYSTEM DISEASES OTHER	494XX	495XX	496XX	50000	50100	50200	50300
RESPIRATORY SYSTEM DISEASES OTHER	50400	50500	506XX	510XX	511XX	513XX	51400
RESPIRATORY SYSTEM DISEASES OTHER	518XX	46400	46410	46411	46420	46421	46430
RESPIRATORY SYSTEM DISEASES OTHER	46431	46440	47800	47810	47820	47821	47822
RESPIRATORY SYSTEM DISEASES OTHER	47824	47825	47826	47829	47830	47831	47832
RESPIRATORY SYSTEM DISEASES OTHER	47833	47834	47840	47850	47860	47870	47871
RESPIRATORY SYSTEM DISEASES OTHER	47874	47875	47879	47890	50880	50890	51600
RESPIRATORY SYSTEM DISEASES OTHER	51620	51680	51690	51780	518XX	51910	51920
RESPIRATORY SYSTEM DISEASES OTHER	51930	51940	51980	51990	78660	78690	

DESCRIPTIONICD9 CODES

TEETH & SUPPORT STRUCTURES DIS OF	520XX 521XX 522XX 523XX 524XX 525XX
PEPTIC ULCER GASTRIC/DUODENAL	531XX 532XX 533XX 534XX
GASTRITIS/DUODENIT/ENTERIT/COLIT	555XX 556XX 557XX 558XX 53500 53510 53520
GASTRITIS/DUODENIT/ENTERIT/COLIT	53540 53550 53560
APPENDICITIS	540XX 541XX 542XX 543XX
HERNIA ABDOMINAL CAVITY ALL TYPES	550XX 551XX 552XX 553XX 75060
LIVER DISEASE & CIRRHOSIS	570XX 571XX 572XX 573XX
PANCREAS DISEASE OF	577XX 57940
DIGESTIVE SYSTEM DISEASES OTHER	526XX 527XX 528XX 529XX 530XX 536XX 537XX
DIGESTIVE SYSTEM DISEASES OTHER	560XX 562XX 565XX 566XX 567XX 568XX 574XX
DIGESTIVE SYSTEM DISEASES OTHER	575XX 56400 56410 56450 56460 56470 56480
DIGESTIVE SYSTEM DISEASES OTHER	56490 56910 56920 56930 56940 56941 56942
DIGESTIVE SYSTEM DISEASES OTHER	56949 56950 56980 56981 56982 56983 56989
DIGESTIVE SYSTEM DISEASES OTHER	56990 57610 57620 57630 57640 57650 57680
DIGESTIVE SYSTEM DISEASES OTHER	57690 77740 78750 78990
URETHRITIS NON-VENEREAL	597XX
KIDNEY & URETER DISEASES OF	580XX 581XX 582XX 583XX 584XX 585XX 586XX
KIDNEY & URETER DISEASES OF	587XX 589XX 590XX 591XX 593XX 58800 58880
KIDNEY & URETER DISEASES OF	58890 59200 59210
BLADDER DISEASES OF	595XX 596XX 61900
URINARY TRACT/URETHRA DIS OTHER	594XX 598XX 59290 59900 59910 59920 59930
URINARY TRACT/URETHRA DIS OTHER	59940 59950 59960 59980 59990
PROSTATE DISEASES OF	600XX 601XX 602XX 22220 23340 23650

<u>DESCRIPTION</u>	<u>ICD9 CODES</u>
REDUNDANT PREPUCE & PHIMOSIS	605XX
MALE GENITAL ORGANS OTHER DISORD	603XX 604XX 606XX 608XX 60700 60710 60720
MALE GENITAL ORGANS OTHER DISORD	60780 60781 60782 60783 60784 60789
BREAST DISEASES OF	610XX 611XX 77150
OVARY & FALLOPIAN TUBE DISEASE OF	61400 61410 61420 62000 62010 62020 62030
OVARY & FALLOPIAN TUBE DISEASE OF	62040 62050 62080 62090 62800 62820
CERVIX/CERVIX UTERI DISEASES OF	622XX 61600
UTERUS/VAGINA/VULVA DISEASES OF	615XX 617XX 61610 61611 61630 61640 61680
UTERUS/VAGINA/VULVA DISEASES OF	61690 62110 62120 62130 62140 62150 62160
UTERUS/VAGINA/VULVA DISEASES OF	62170 62180 62190 62730 62780
MENSTRUATION DISORDERS OF	62520 62530 62540 62580 62600 62610 62620
MENSTRUATION DISORDERS OF	62630 62640 62650 62660 62680 62690 62710
FEMALE GENIT ORGANS OTH DISEASES	629XX 618XX 61430 61440 61450 61460 61470
FEMALE GENIT ORGANS OTH DISEASES	61480 61490 61650 61651 61910 61920 61980
FEMALE GENIT ORGANS OTH DISEASES	61990 62060 62070 62300 62310 62320 62330
FEMALE GENIT ORGANS OTH DISEASES	62340 62350 62360 62380 62390 62400 62410
FEMALE GENIT ORGANS OTH DISEASES	62420 62430 62440 62450 62480 62490 62670
FEMALE GENIT ORGANS OTH DISEASES	62700 62720 62740 62790 62810 62830 62840
FEMALE GENIT ORGANS OTH DISEASES	62880 62890 62550
ECTOPIC PREGNANCY	633XX
ABORTION SPONTANEOUS & INDUCED	634XX 635XX 636XX 637XX 639XX 65510 65511
ABORTION SPONTANEOUS & INDUCED	65512 65514 65515 65520 65521 65522 65524
ABORTION SPONTANEOUS & INDUCED	65525 65530 65531 65532 65534 65535 65540
ABORTION SPONTANEOUS & INDUCED	65541 65542 65544 65545 65550 65551 65552
ABORTION SPONTANEOUS & INDUCED	65554 65555 65560 65561 65562 65564 65565
ABORTION SPONTANEOUS & INDUCED	65580 65581 65582 65584 65585 65590 65591
ABORTION SPONTANEOUS & INDUCED	65592 65594 65595

DESCRIPTIONICD9 CODES

DELIVERY WITHOUT COMPLICATIONS

650XX

DELIV/ANTE/POSTPARTUM COMPLICAT
DELIV/ANTE/POSTPARTUM COMPLICAT
DELIV/ANTE/POSTPARTUM COMPLICAT
DELIV/ANTE/POSTPARTUM COMPLICAT
DELIV/ANTE/POSTPARTUM COMPLICAT
DELIV/ANTE/POSTPARTUM COMPLICAT
DELIV/ANTE/POSTPARTUM COMPLICAT
DELIV/ANTE/POSTPARTUM COMPLICAT
DELIV/ANTE/POSTPARTUM COMPLICAT

630XX 632XX 638XX 640XX 641XX 642XX 643XX
644XX 646XX 647XX 648XX 651XX 652XX 653XX
654XX 656XX 658XX 659XX 660XX 661XX 663XX
664XX 665XX 666XX 667XX 669XX 670XX 671XX
672XX 673XX 675XX 676XX 65500 65501 65502
65503 65504 65505 67400 67401 67402 67403
67404 67405 67440 67441 67442 67443 67444
67445 67480 67481 67482 67483 67484 67485
67490 67491 67492 67493 67494 67495

CARBUNCLES & FURUNCLES

680XX

CELLULITIS AND ABSCESS

681XX 682XX

PILONIDAL CYST/ABSCESS

685XX

DERMATITIS/DERMATOSIS/ECZEMA
DERMATITIS/DERMATOSIS/ECZEMA
DERMATITIS/DERMATOSIS/ECZEMA

690XX 691XX 692XX 702XX 37330 37331 37332
37334 69310 69400 69410 69420 69430 69440
69450 69460 69461 99530

NAIL DISEASES OF

703XX

SWEAT & SEBACEOUS GLANDS DIS OF

705XX 706XX

ULCER SKIN CHRONIC

707XX

OTH INFECT SKIN & SUBCUTAN TISSUE
OTH INFECT SKIN & SUBCUTAN TISSUE
OTH INFECT SKIN & SUBCUTAN TISSUE
OTH INFECT SKIN & SUBCUTAN TISSUE
OTH INFECT SKIN & SUBCUTAN TISSUE
OTH INFECT SKIN & SUBCUTAN TISSUE

683XX 684XX 686XX 695XX 696XX 697XX 698XX
700XX 704XX 708XX 709XX 20220 20221 20222
20223 20224 20225 20226 20227 20228 70100
70110 70120 70130 70140 70150 70180 70190
72360 72930 72939 77880 78280 69480 69490
37333 99510 27760

DESCRIPTIONICD9 CODES

ARTHRITIS & RHEUMATISM	715XX	725XX	71400	71410	71420	71430	71431
ARTHRITIS & RHEUMATISM	71432	71433	71440	71480	71481	71489	71609
ARTHRITIS & RHEUMATISM	71930	71931	71932	71933	71934	71935	71936
ARTHRITIS & RHEUMATISM	71937	71938	71939	72000	72080	72081	72089
ARTHRITIS & RHEUMATISM	72090	72100	72120	72130	72150	72160	72170
ARTHRITIS & RHEUMATISM	72190	72191	72350	72600	72620	72820	72900
ARTHRITIS & RHEUMATISM	72910						

ARTHROPATHIES/JOINT DISORDS OTHER	711XX	712XX	713XX	34460	71490	71600	71601
ARTHROPATHIES/JOINT DISORDS OTHER	71602	71603	71604	71605	71606	71610	71611
ARTHROPATHIES/JOINT DISORDS OTHER	71612	71613	71614	71615	71616	71617	71618
ARTHROPATHIES/JOINT DISORDS OTHER	71619	71650	71651	71652	71653	71654	71655
ARTHROPATHIES/JOINT DISORDS OTHER	71656	71657	71658	71659	71661	71662	71663
ARTHROPATHIES/JOINT DISORDS OTHER	71664	71665	71666	71667	71668	71669	71690
ARTHROPATHIES/JOINT DISORDS OTHER	71691	71692	71693	71694	71695	71696	71697
ARTHROPATHIES/JOINT DISORDS OTHER	71698	71699	71810	71811	71812	71813	71814
ARTHROPATHIES/JOINT DISORDS OTHER	71815	71817	71818	71819	71820	71821	71822
ARTHROPATHIES/JOINT DISORDS OTHER	71823	71824	71825	71826	71827	71828	71829
ARTHROPATHIES/JOINT DISORDS OTHER	71840	71841	71842	71843	71844	71845	71846
ARTHROPATHIES/JOINT DISORDS OTHER	71847	71848	71849	71850	71851	71852	71853
ARTHROPATHIES/JOINT DISORDS OTHER	71854	71855	71856	71857	71858	71859	71880
ARTHROPATHIES/JOINT DISORDS OTHER	71881	71882	71883	71884	71885	71886	71887
ARTHROPATHIES/JOINT DISORDS OTHER	71888	71889	71900	71901	71902	71903	71904
ARTHROPATHIES/JOINT DISORDS OTHER	71905	71906	71907	71908	71909	71910	71911
ARTHROPATHIES/JOINT DISORDS OTHER	71912	71913	71914	71915	71916	71917	71918
ARTHROPATHIES/JOINT DISORDS OTHER	71919	71950	71951	71952	71953	71954	71955
ARTHROPATHIES/JOINT DISORDS OTHER	71956	71957	71958	71959	71960	71961	71962
ARTHROPATHIES/JOINT DISORDS OTHER	71963	71964	71965	71966	71967	71968	71981
ARTHROPATHIES/JOINT DISORDS OTHER	71982	71985	71986	71991	71992	71995	71996
ARTHROPATHIES/JOINT DISORDS OTHER	72020	72120	72140	72141	72142	72280	72281
ARTHROPATHIES/JOINT DISORDS OTHER	72282	72283	72289	72290	72300	72310	72320
ARTHROPATHIES/JOINT DISORDS OTHER	72330	72340	72370	72380	72390	72400	72410
ARTHROPATHIES/JOINT DISORDS OTHER	72420	72440	72450	72460	72470	72480	72490
ARTHROPATHIES/JOINT DISORDS OTHER	72920	72931	73840				

INTERNAL DERANGEMENT JOINT	717XX	71800	71801	71802	71803	71804	71805
INTERNAL DERANGEMENT JOINT	71806	71807	71808	71809	71816	71830	71831
INTERNAL DERANGEMENT JOINT	71832	71833	71834	71835	71836	71837	71838
INTERNAL DERANGEMENT JOINT	71839	71890	71891	71892	71893	71894	71895
INTERNAL DERANGEMENT JOINT	71896	71897	71898	71899			

INTERVERTEBRAL DISC DISORDER	72200	72210	72211	72220	72230	72231	72232
INTERVERTEBRAL DISC DISORDER	72239	72240	72250	72251	72252	72260	72270
INTERVERTEBRAL DISC DISORDER	72271	72272	72273	72279			

DESCRIPTIONICD9 CODES

BONE & CARTILAGE DISORDERS	730XX	731XX	732XX	739XX	73300	73301	73302
BONE & CARTILAGE DISORDERS	73303	73309	73310	73320	73321	73322	73329
BONE & CARTILAGE DISORDERS	73330	73340	73341	73342	73343	73344	73349
BONE & CARTILAGE DISORDERS	73350	73370	73390	73391	73392	73399	

SYNOVITIS BURSITIS TENOSYNOVITIS	71920	71921	71922	71923	71924	71925	71926
SYNOVITIS BURSITIS TENOSYNOVITIS	71927	71928	71929	72010	72610	72611	72612
SYNOVITIS BURSITIS TENOSYNOVITIS	72619	72630	72631	72632	72633	72639	72640
SYNOVITIS BURSITIS TENOSYNOVITIS	72650	72660	72661	72662	72663	72664	72665
SYNOVITIS BURSITIS TENOSYNOVITIS	72669	72680	72690	72691	72700	72701	72702
SYNOVITIS BURSITIS TENOSYNOVITIS	72703	72704	72705	72706	72709	72720	72730
SYNOVITIS BURSITIS TENOSYNOVITIS	72740	72741	72742	72743	72749	72750	72751
SYNOVITIS BURSITIS TENOSYNOVITIS	72759						

MUSCULOSKELETAL/CONNECTIV DIS OTH	710XX	734XX	735XX	736XX	737XX	35350	35800
MUSCULOSKELETAL/CONNECTIV DIS OTH	35810	35980	35990	71860	71861	71862	71863
MUSCULOSKELETAL/CONNECTIV DIS OTH	71864	71865	71866	71867	71868	71869	72710
MUSCULOSKELETAL/CONNECTIV DIS OTH	72760	72761	72762	72763	72764	72765	72766
MUSCULOSKELETAL/CONNECTIV DIS OTH	72767	72768	72769	72780	72781	72782	72789
MUSCULOSKELETAL/CONNECTIV DIS OTH	72790	72800	72810	72811	72812	72813	72819
MUSCULOSKELETAL/CONNECTIV DIS OTH	72830	72840	72850	72860	72870	72871	72879
MUSCULOSKELETAL/CONNECTIV DIS OTH	72880	72881	72882	72883	72884	72885	72889
MUSCULOSKELETAL/CONNECTIV DIS OTH	72890	72940	72960	72990	73800	73810	73820
MUSCULOSKELETAL/CONNECTIV DIS OTH	73830	73850	73860	73880	73890	77520	

CONGENITAL ANOMALIES	740XX	741XX	742XX	743XX	744XX	745XX	746XX
CONGENITAL ANOMALIES	747XX	748XX	749XX	751XX	752XX	753XX	754XX
CONGENITAL ANOMALIES	755XX	756XX	757XX	758XX	759XX	20260	20261
CONGENITAL ANOMALIES	20262	20263	20264	20265	20266	20267	20268
CONGENITAL ANOMALIES	23770	23850	42530	75000	75010	75011	75012
CONGENITAL ANOMALIES	75013	75015	75016	75019	75020	75021	75022
CONGENITAL ANOMALIES	75023	75024	75025	75026	75027	75029	75030
CONGENITAL ANOMALIES	75040	75050	75070	75080	75090	77860	

PERINATAL MORBIDITY & MORTALITY	760XX	761XX	762XX	763XX	764XX	765XX	766XX
PERINATAL MORBIDITY & MORTALITY	767XX	768XX	769XX	772XX	773XX	77010	77020
PERINATAL MORBIDITY & MORTALITY	77030	77040	77050	77060	77070	77080	77090
PERINATAL MORBIDITY & MORTALITY	77410	77420	77430	77431	77439	77440	77450
PERINATAL MORBIDITY & MORTALITY	77460	77470	77500	77550	77600	77620	77630
PERINATAL MORBIDITY & MORTALITY	77650	77690	77710	77720	77730	77760	77780
PERINATAL MORBIDITY & MORTALITY	77790	77800	77810	77820	77830	77840	77850
PERINATAL MORBIDITY & MORTALITY	77870	77890	77920	77960	77980	77990	

DESCRIPTIONICD9 CODES

HEADACHE

78400

UREMIA

NO ICD9 EQUIVALENT

OTH SYMPTOMS/ILL-DEFINED CONDIT	276XX	788XX	798XX	V16XX	V17XX	V18XX	V19XX
OTH SYMPTOMS/ILL-DEFINED CONDIT	V41XX	V47XX	V48XX	V49XX	33120	34830	34930
OTH SYMPTOMS/ILL-DEFINED CONDIT	35360	36810	36811	36812	36813	36814	36815
OTH SYMPTOMS/ILL-DEFINED CONDIT	36816	36920	36830	36831	36832	36833	36834
OTH SYMPTOMS/ILL-DEFINED CONDIT	36840	36841	36842	36843	36844	36845	36846
OTH SYMPTOMS/ILL-DEFINED CONDIT	36847	36880	36890	37950	38830	38840	42890
OTH SYMPTOMS/ILL-DEFINED CONDIT	57800	57810	59970	60730	62500	62510	62560
OTH SYMPTOMS/ILL-DEFINED CONDIT	62590	71940	71941	71942	71943	71944	71945
OTH SYMPTOMS/ILL-DEFINED CONDIT	71946	71947	71948	71949	71970	71071	71972
OTH SYMPTOMS/ILL-DEFINED CONDIT	71973	71974	71975	71976	71977	71978	71979
OTH SYMPTOMS/ILL-DEFINED CONDIT	72670	72671	72672	72673	72679	72950	72980
OTH SYMPTOMS/ILL-DEFINED CONDIT	72981	72982	72989	77570	77900	77910	78000
OTH SYMPTOMS/ILL-DEFINED CONDIT	78010	78020	78030	78040	78060	78080	78090
OTH SYMPTOMS/ILL-DEFINED CONDIT	78100	78110	78120	78130	78140	78150	78160
OTH SYMPTOMS/ILL-DEFINED CONDIT	78170	78190	78200	78210	78220	78230	78240
OTH SYMPTOMS/ILL-DEFINED CONDIT	78250	78260	78261	78262	78290	78300	78320
OTH SYMPTOMS/ILL-DEFINED CONDIT	78340	78390	78410	78420	78430	78440	78441
OTH SYMPTOMS/ILL-DEFINED CONDIT	78449	78450	78460	78461	78469	78470	78490
OTH SYMPTOMS/ILL-DEFINED CONDIT	78500	78510	78550	78551	78559	78560	78600
OTH SYMPTOMS/ILL-DEFINED CONDIT	78601	78602	78609	78610	78620	78630	78640
OTH SYMPTOMS/ILL-DEFINED CONDIT	78650	78651	78652	78659	78670	78680	78700
OTH SYMPTOMS/ILL-DEFINED CONDIT	78710	78720	78730	78740	78760	78770	78790
OTH SYMPTOMS/ILL-DEFINED CONDIT	78900	78910	78920	78930	78940	78950	79700
OTH SYMPTOMS/ILL-DEFINED CONDIT	79900	79910	79940	79980	79990	V6520	V7120
OTH SYMPTOMS/ILL-DEFINED CONDIT	V7130	V7140	V7150	V7160	V7170	V7180	V7190

EFFECTS REDUC TEMP/EXCESS DAMPNSS	99100	99110	99120	99130	99140	99160	99180
EFFECTS REDUC TEMP/EXCESS DAMPNSS	99190						

EFFECTS HEAT/LIGHT	992XX
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EFFECTS OTHER EXTERNAL CAUSES	994XX	78350	99340	99380	99390	99580
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DESCRIPTIONICD9 CODES

ADV EFFECTS MEDICINAL SUBSTANCES	960XX	961XX	962XX	963XX	965XX	966XX	967XX
ADV EFFECTS MEDICINAL SUBSTANCES	968XX	969XX	970XX	971XX	972XX	973XX	974XX
ADV EFFECTS MEDICINAL SUBSTANCES	975XX	976XX	977XX	35760	50800	50810	69300
ADV EFFECTS MEDICINAL SUBSTANCES	77940	90900	96400	96410	96420	96430	96440
ADV EFFECTS MEDICINAL SUBSTANCES	96450	96470	96480	96490	99000	99540	

ADV EFFECTS INDUSTRIAL SUBSTANCES	980XX	981XX	982XX	983XX	984XX	985XX	988XX
ADV EFFECTS INDUSTRIAL SUBSTANCES	989XX	35770	35820	35940	69380	69390	90910

ADV EFFECT BAROMET PRESS CHANGES	99300	99310	99320	99330			
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TABLE 8. FREQUENCIES AND RATES OF PROPOSED ICD-9 BATTLE INJURY CATEGORIES;
PRIMARY DIAGNOSES AMONG U.S. MARINES IN VIETNAM

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u> [*]
MULTIPLE FRAGMENT WOUND BRAIN	656	1.3	0.00513
MULTIPLE FRAGMENT WOUND CHEST	561	1.1	0.00439
MULTIPLE FRAGMENT WOUND BACK	567	1.1	0.00444
WOUND BRAIN	429	0.8	0.00336
OPEN WOUND CHEST	519	1.0	0.00406
OPEN WOUND BACK	283	0.6	0.00221
OPEN WOUND SHOULDER/UPPER ARM	1348	2.6	0.01054
OPEN WOUND ELBOW, FOREARM, WRIST	1453	2.8	0.01137
OPEN WOUND HAND(S)/FINGERS	1291	2.5	0.01010
OPEN WOUND UPPER LIMB(S) MULTIPLE	2432	4.7	0.01902
OPEN WOUND BUTTOCKS	806	1.6	0.00630
OPEN WOUND HIP/THIGH	2661	5.1	0.02081
OPEN WOUND KNEE/LOWER LEG/ANKLE	3702	7.1	0.02896
OPEN WOUND FOOT/TOES	839	1.6	0.00656
OPEN WOUND LOWER LIMB(S) MULTIPLE	2115	4.1	0.01654
OPEN WOUNDS MULTIPLE OTHER & UNSPCD	13062	25.1	0.10217
CONTUSION SHOULDER/UPPER ARM	16	0.0	0.00013
CONTUSION ELBOW, FOREARM, WRIST	33	0.1	0.00026
CONTUSION HAND/FINGERS	18	0.0	0.00014
CONTUSION HIP, THIGH, LEG, ANKLE	116	0.2	0.00091
CONTUSION FOOT AND TOE(S)	18	0.0	0.00014
CONTUSION TRUNK	134	0.3	0.00105
AMPUTATION FOOT	134	0.3	0.00105

* RATES ARE PER 1,000 STRENGTH PER DAY.

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
AMPUTATION LEG(S)	498	1.0	0.00390
AMPUTATION TOES	39	0.1	0.00031
AMPUTATION FINGERS/THUMBS	188	0.4	0.00147
AMPUTATION ARMS/HANDS	117	0.2	0.00092
PNEUMOHEMOTHORAX	566	1.1	0.00443
INTRACRANIAL HEMORRHAGE POST INJURY	24	0.1	0.00019
CONCUSSION	676	1.3	0.00529
SPINAL CORD LESION NO BONE INJURY	29	0.1	0.00023
INJURY NERVES LOWER LEG	20	0.0	0.00016
INJURY NERVES UPPER ARM	22	0.0	0.00017
INJURY NERVES FOREARM	30	0.1	0.00023
INJURY NERVES THIGH	11	0.0	0.00009
INJURY NERVES FOOT & ANKLE	3	0.0	0.00002
INJURY NERVES WRIST/HAND	11	0.0	0.00009
INJURY NERVES CRANIAL	60	0.1	0.00047
OTHER UNSPECIFIED NERVE INJURY	24	0.1	0.00019
SUPERFICIAL WOUNDS	221	0.4	0.00173
MULTIPLE ORGAN DAMAGE	294	0.6	0.00230
WOUND LIVER	74	0.1	0.00058
WOUND KIDNEY	35	0.1	0.00027
WOUND PELVIC ORGANS	42	0.1	0.00033
WOUND SPLEEN	28	0.1	0.00022
WOUND GASTROINTESTINAL TRACT	199	0.4	0.00156
WOUND EXTERNAL GENITALIA	114	0.2	0.00089
INJURY HEART/LUNG	78	0.2	0.00061
WOUND SCALP	349	0.7	0.00273
WOUND FACE JAWS NECK	3333	6.4	0.02607
EYE WOUND	480	0.9	0.00375
OPEN WOUND EAR	634	1.2	0.00496
FOREIGN BODY EYE	57	0.1	0.00045

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
BURNS LOWER EXTREMITIES	26	0.1	0.00020
BURNS TRUNK	21	0.0	0.00016
BURNS HEAD & NECK	21	0.0	0.00016
BURN EYE	22	0.0	0.00017
BURNS UPPER EXTREMITIES	79	0.2	0.00062
BURNS MULTIPLE OTHER & UNSPCD	552	1.1	0.00432
STRAINS/SPRAINS ANKLE/FOOT	233	0.5	0.00182
STRAINS/SPRAINS SACROILIAC	17	0.0	0.00013
SPRAIN WRIST/HAND/FINGERS	18	0.0	0.00014
STRAINS/SPRAINS KNEE	126	0.2	0.00099
SPRAINS & STRAINS MULT/OTHER/UNSPCD	348	0.7	0.00272
FRACTURE HAND/WRIST/FINGERS	915	1.8	0.00716
FRACTURE TIBIA & FIBULA	1413	2.7	0.01105
FRACTURE PELVIS	144	0.3	0.00113
FRACTURE SCAPULA	130	0.3	0.00102
FRACTURE SKULL LOC < 1 HOUR	0	0.0	0.00000
FRACTURE SKULL LOC 1-24 HOURS	0	0.0	0.00000
FRACTURE SKULL LOC > 24 HOURS	0	0.0	0.00000
FRACTURE SKULL NO/UNSPECIFIED LOC	273	0.5	0.00214
FRACTURE FEMUR	874	1.7	0.00684
FRACTURE UPPER LIMB	177	0.3	0.00138
FRACTURE LOWER LIMB	238	0.5	0.00186
FRACTURE RIB/STERNUM/LARYNX/TRACHEA	160	0.3	0.00125
FRACTURE RADIUS/ULNA	884	1.7	0.00691
FRACTURE HUMERUS	696	1.3	0.00544
FRACTURE CLAVICLE	79	0.2	0.00062
FRACTURE SPINE NO CORD DAMAGE	283	0.6	0.00221
FRACTURE SPINE WITH CORD DAMAGE	21	0.0	0.00016
FRACTURE ANKLE/FOOT/TOES	771	1.5	0.00603
FRACTURE PATELLA	82	0.2	0.00064

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
FRACTURE FACE BONES	554	1.1	0.00433
FRACTURE MULTIPLE OTHER & UNSPCD	781	1.5	0.00611
DISLOCATION KNEE	162	0.3	0.00127
DISLOCATION ANKLE	4	0.0	0.00003
DISLOCATION HIP	4	0.0	0.00003
DISLOCATION SHOULDER	48	0.1	0.00038
DISLOCATION FOOT/TOES	3	0.0	0.00002
DISLOCATION HAND/WRIST	6	0.0	0.00005
DISLOCATION FINGERS	7	0.0	0.00005
DISLOCATION ELBOW	11	0.0	0.00009
DISLOCATION JAW	1	0.0	0.00001
TOXIC INHALATION	9	0.0	0.00007
TRAUMA-EARLY COMPLICATIONS	47	0.1	0.00037
TRAUMA MULTIPLE OTHER & UNSPECIFIED	255	0.5	0.00199
COMPLICATIONS MEDICAL CARE/SURGERY	15	0.0	0.00012
 TOTAL	 51,959	 100.0	 0.40644

TABLE 9. FREQUENCIES OF PROPOSED ICD-9 BATTLE INJURY CATEGORIES;
SECONDARY DIAGNOSES AMONG U.S. MARINES IN VIETNAM

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
MULTIPLE FRAGMENT WOUND BRAIN	625	1.2
MULTIPLE FRAGMENT WOUND CHEST	485	1.0
MULTIPLE FRAGMENT WOUND BACK	247	0.5
WOUND BRAIN	270	0.5
OPEN WOUND CHEST	414	0.8
OPEN WOUND BACK	212	0.4
OPEN WOUND SHOULDER/UPPER ARM	834	1.6
OPEN WOUND ELBOW, FOREARM, WRIST	1108	2.2
OPEN WOUND HAND(S)/FINGERS	1061	2.1
OPEN WOUND UPPER LIMB(S) MULTIPLE	1618	3.2
OPEN WOUND BUTTOCKS	380	0.8
OPEN WOUND HIP/THIGH	1455	2.9
OPEN WOUND KNEE/LOWER LEG/ANKLE	2228	4.4
OPEN WOUND FOOT/TOES	587	1.2
OPEN WOUND LOWER LIMB(S) MULTIPLE	2143	4.2
OPEN WOUNDS MULTIPLE OTHER & UNSPCD	10266	20.2
CONTUSION SHOULDER/UPPER ARM	13	0.0
CONTUSION ELBOW, FOREARM, WRIST	24	0.1
CONTUSION HAND/FINGERS	21	0.0
CONTUSION HIP, THIGH, LEG, ANKLE	150	0.3
CONTUSION FOOT AND TOE(S)	19	0.0
CONTUSION TRUNK	187	0.4
AMPUTATION FOOT	120	0.2
AMPUTATION LEG(S)	672	1.3
AMPUTATION TOES	127	0.3
AMPUTATION FINGERS/THUMBS	440	0.9
AMPUTATION ARMS/HANDS	152	0.3

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
PNEUMOHEMOTHORAX	792	1.6
INTRACRANIAL HEMORRHAGE POST INJURY	79	0.2
CONCUSSION	200	0.4
SPINAL CORD LESION NO BONE INJURY	199	0.4
INJURY NERVES LOWER LEG	757	1.5
INJURY NERVES UPPER ARM	482	1.0
INJURY NERVES FOREARM	1129	2.2
INJURY NERVES THIGH	200	0.4
INJURY NERVES FOOT & ANKLE	112	0.2
INJURY NERVES WRIST/HAND	416	0.8
INJURY NERVES CRANIAL	357	0.7
OTHER UNSPECIFIED NERVE INJURY	627	1.2
SUPERFICIAL WOUNDS	407	0.8
MULTIPLE ORGAN DAMAGE	865	1.7
WOUND LIVER	327	0.6
WOUND KIDNEY	132	0.3
WOUND PELVIC ORGANS	153	0.3
WOUND SPLEEN	134	0.3
WOUND GASTROINTESTINAL TRACT	621	1.2
WOUND EXTERNAL GENITALIA	229	0.5
INJURY HEART/LUNG	313	0.6
WOUND SCALP	198	0.4
WOUND FACE JAWS NECK	2356	4.6
EYE WOUND	957	1.9
OPEN WOUND EAR	956	1.9
FOREIGN BODY EYE	386	0.8
BURNS LOWER EXTREMITIES	93	0.2
BURNS TRUNK	38	0.1
BURNS HEAD & NECK	70	0.1
BURN EYE	22	0.0

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
BURNS UPPER EXTREMITIES	112	0.2
BURNS MULTIPLE OTHER & UNSPCD	431	0.9
STRAINS/SPRAINS ANKLE/FOOT	63	0.1
STRAINS/SPRAINS SACROILIAC	17	0.0
SPRAIN WRIST/HAND/FINGERS	23	0.1
STRAINS/SPRAINS KNEE	71	0.1
SPRAINS & STRAINS MULT/OTHER/UNSPCD	154	0.3
FRACTURE HAND/WRIST/FINGERS	1347	2.7
FRACTURE TIBIA & FIBULA	1283	2.5
FRACTURE PELVIS	195	0.4
FRACTURE SCAPULA	199	0.4
FRACTURE SKULL LOC < 1 HOUR	0	0.0
FRACTURE SKULL LOC 1-24 HOURS	0	0.0
FRACTURE SKULL LOC > 24 HOURS	0	0.0
FRACTURE SKULL NO/UNSPECIFIED LOC	234	0.5
FRACTURE FEMUR	726	1.4
FRACTURE UPPER LIMB	162	0.3
FRACTURE LOWER LIMB	226	0.4
FRACTURE RIB/STERNUM/LARYNX/TRACHEA	237	0.5
FRACTURE RADIUS/ULNA	827	1.6
FRACTURE HUMERUS	586	1.2
FRACTURE CLAVICLE	94	0.2
FRACTURE SPINE NO CORD DAMAGE	210	0.4
FRACTURE SPINE WITH CORD DAMAGE	48	0.1
FRACTURE ANKLE/FOOT/TOES	1017	2.0
FRACTURE PATELLA	156	0.3
FRACTURE FACE BONES	338	0.7
FRACTURE MULTIPLE OTHER & UNSPCD	461	0.9
DISLOCATION KNEE	88	0.2
DISLOCATION ANKLE	19	0.0

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
DISLOCATION HIP	12	0.0
DISLOCATION SHOULDER	37	0.1
DISLOCATION FOOT/TOES	17	0.0
DISLOCATION HAND/WRIST	26	0.1
DISLOCATION FINGERS	13	0.0
DISLOCATION ELBOW	18	0.0
DISLOCATION JAW	2	0.0
TOXIC INHALATION	3	0.0
TRAUMA-EARLY COMPLICATIONS	1139	2.2
TRAUMA MULTIPLE OTHER & UNSPECIFIED	578	1.1
COMPLICATIONS MEDICAL CARE/SURGERY	267	0.5
 TOTAL	 50901	 100.0

TABLE 10. FREQUENCIES AND RATES OF PROPOSED ICD-9 DNBI CATEGORIES;
PRIMARY DIAGNOSES AMONG U.S. MARINES IN VIETNAM

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u> *
FEBRILE ILLNESS EXCLUDING PNEUMONIA	13328	12.2	0.10425
FOOD POISONING BACTERIAL	44	0.0	0.00034
DIARRHEAL DISEASE/DYSENTERY	2376	2.2	0.01859
ENTERITIS SPECIFIED ORGANISM	21	0.0	0.00016
TUBERCULOSIS ALL TYPES	110	0.1	0.00086
MENINGOCOCCAL INFECTIONS	10	0.0	0.00008
HERPES SIMPLEX & HERPES ZOSTER	93	0.1	0.00073
ENCEPHALITIS	121	0.1	0.00095
HEPATITIS INFECTIOUS VIRAL	528	0.5	0.00413
ANIMAL BITES/RABIES EXPOSURE	1	0.0	0.00001
MUMPS	33	0.0	0.00026
INFECTIOUS MONONUCLEOSIS	456	0.4	0.00357
TRACHOMA	7	0.0	0.00005
STD-SYPHILIS	48	0.0	0.00038
STD-GONOCOCCAL INFECTIONS	363	0.3	0.00284
STD-OTHER VENEREAL DISEASES	260	0.2	0.00203
DERMATOPHYTOSIS & DERMATOMYCOSIS	1215	1.1	0.00950
HELMINTHIASIS	1755	1.6	0.01373
PEDICULOSIS	30	0.0	0.00023
SCABIES	6	0.0	0.00005
INFECTIVE & PARASITIC DISEASES OTHER	4098	3.8	0.03206
NEOPLASMS MALIGNANT	161	0.2	0.00126
NEOPLASMS BENIGN & UNSPECIFIED	1242	1.1	0.00972
THYROID DISORDER	48	0.0	0.00038

* RATES ARE PER 1,000 STRENGTH PER DAY.

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
DIABETES MELLITUS	109	0.1	0.00085
ALLERGIC DISORDERS	126	0.1	0.00099
AVITAMINOSES/NUTRITIONAL DEFICIENCIES	123	0.1	0.00096
OBESITY & HYPERALIMENTATION	34	0.0	0.00027
ENDOCRINE/NUTRIT/METABOLIC DIS OTHER	203	0.2	0.00159
ANEMIAS ALL TYPES	180	0.2	0.00141
OTHER DIS BLOOD/BLOOD-FORMING ORGANS	342	0.3	0.00268
PSYCHOSIS	579	0.5	0.00453
NEUROSIS/PERSONALITY DIS/TSD/CONDUCT	3753	3.5	0.02936
ALCOHOL ABUSE	282	0.3	0.00221
DRUG ABUSE NON-ALCOHOL	201	0.2	0.00157
BEHAVIORAL DISORDERS OTHER	1098	1.0	0.00859
ENCEPHALITIS/MYELITIS/ENCEPHALOMYELIT	74	0.1	0.00058
EPILEPSY	99	0.1	0.00077
MIGRAINE	68	0.1	0.00053
CONJUNCTIVA DISORDER OF	239	0.2	0.00187
BLEPHARITIS/HORDEOLUM	48	0.0	0.00038
KERATITIS/IRITIS/CHOROIDITIS	139	0.1	0.00109
REFRACTIVE & ACCOMMODATION ERRORS	35	0.0	0.00027
OTITIS MEDIA & EXTERNA	605	0.6	0.00473
EAR & MASTOID OTHER DISEASES OF	1053	1.0	0.00824
EYE OTHER DISEASE OF	914	0.8	0.00715
NERVOUS SYST/SENSE ORGAN DISORD OTHER	1812	1.7	0.01417
RHEUMATIC DISEASE W/WOUT HEART INVOLV	48	0.0	0.00038
HYPERTENSIVE DISEASES	322	0.3	0.00252
ISCHEMIC HEART DISEASE ALL FORMS	28	0.0	0.00022
HEMORRHOIDAL DISEASE	764	0.7	0.00598
PHLEBITIS & THROMBOPHLEBITIS	212	0.2	0.00166
INTRACRANIAL HEMORRHAGE NON-TRAUMATIC	5	0.0	0.00004
CEREBROVASCULAR DISEASES OTHER	22	0.0	0.00017

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
ARTERIES/ARTERIOLES DISEASES OF	99	0.1	0.00077
CIRCULATORY SYSTEM DISEASES OTHER	583	0.5	0.00456
PHARYNGITIS/NASOPHARYNGITIS/SINUSITIS	617	0.6	0.00483
UPPER RESPIRATORY INFECTIONS ACUTE	448	0.4	0.00350
BRONCHITIS & BRONCHIOLITIS	1019	0.9	0.00797
INFLUENZA	361	0.3	0.00282
PNEUMONIA ALL TYPES	960	0.9	0.00751
ASTHMA	348	0.3	0.00272
ALLERGIC RHINITIS/HAYFEVER	39	0.0	0.00031
PNEUMOTHORAX	86	0.1	0.00067
RESPIRATORY SYSTEM DISEASES OTHER	1498	1.4	0.01172
TEETH & SUPPORTING STRUCTURES DIS OF	255	0.2	0.00199
PEPTIC ULCER GASTRIC/DUODENAL	573	0.5	0.00448
GASTRITIS/DUODENITIS/ENTERITI/COLITIS	3332	3.1	0.02606
APPENDICITIS	956	0.9	0.00748
HERNIA ABDOMINAL CAVITY ALL TYPES	977	0.9	0.00764
LIVER DISEASE & CIRRHOSIS	248	0.2	0.00194
PANCREAS DISEASE OF	25	0.0	0.00020
DIGESTIVE SYSTEM DISEASES OTHER	785	0.7	0.00614
URETHRITIS NON-VENEREAL	159	0.2	0.00124
KIDNEY & URETER DISEASES OF	745	0.7	0.00583
BLADDER DISEASES OF	131	0.1	0.00102
URINARY TRACT/URETHRA DISEASES OTHER	343	0.3	0.00268
PROSTATE DISEASES OF	304	0.3	0.00238
REDUNDANT PREPUCE & PHIMOSIS	459	0.4	0.00359
MALE GENITAL ORGANS OTHER DISORDERS	1069	1.0	0.00836
BREAST DISEASES OF	77	0.1	0.00060
OVARY & FALLOPIAN TUBE DISEASES OF	1	0.0	0.00001
CERVIX/CERVIX UTERI DISEASES OF	0	0.0	0.00000
UTERUS/VAGINA/VULVA DISEASES OF	1	0.0	0.00001

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
MENSTRUATION DISORDERS OF	0	0.0	0.00000
FEMALE GENITAL ORGANS OTHER DISEASES	0	0.0	0.00000
ECTOPIC PREGNANCY	0	0.0	0.00000
ABORTION SPONTANEOUS & INDUCED	0	0.0	0.00000
DELIVERY WITHOUT COMPLICATIONS	2	0.0	0.00002
DELIV/ANTE/POSTPARTUM COMPLICATIONS	5	0.0	0.00004
CARBUNCLES & FURUNCLES	386	0.4	0.00302
CELLULITIS AND ABSCESS	5469	5.0	0.04278
FILONIDAL CYST/ABSCESS	153	0.1	0.00120
DERMATITIS/DERMATOSIS/ECZEMA	549	0.5	0.00429
NAIL DISEASES OF	213	0.2	0.00167
SWEAT & SEBACEOUS GLANDS DISEASES OF	491	0.5	0.00384
ULCER SKIN CHRONIC	337	0.3	0.00264
OTHER INFECT SKIN & SUBCUTANEO TISSUE	2301	2.1	0.01800
ARTHRITIS & RHEUMATISM	258	0.2	0.00202
ARTHROPATHIES/JOINT DISORDS OTHER	1213	1.1	0.00949
INTERNAL DERANGEMENT JOINT	676	0.6	0.00529
INTERVERTEBRAL DISC DISORDER	276	0.3	0.00216
BONE & CARTILAGE DISORDERS	555	0.5	0.00434
SYNOVITIS BURSITIS TENOSYNOVITIS	582	0.5	0.00455
MUSCULOSKELETAL/CONNECTIVE DIS OTHER	797	0.7	0.00623
CONGENITAL ANOMALIES	317	0.3	0.00248
PERINATAL MORBIDITY & MORTALITY	1	0.0	0.00001
HEADACHE	307	0.3	0.00240
UREMIA	13	0.0	0.00010
OTHER SYMPTOMS/ILL-DEFINED CONDITIONS	14377	13.2	0.11246
EFFECTS REDUCED TEMP/EXCESS DAMPNES	704	0.7	0.00551
EFFECTS HEAT/LIGHT	1567	1.4	0.01226
EFFECTS OTHER EXTERNAL CAUSES	44	0.0	0.00034
ADVERSE EFFECTS MEDICINAL SUBSTANCES	146	0.1	0.00114

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
ADVERSE EFFECTS INDUSTRIAL SUBSTANCES	168	0.2	0.00131
TOXIC EFFECT SUBSTANCES UNSPECIFIED	42	0.0	0.00033
ADV EFFECT BAROMETRIC PRESSUR CHANGES	0	0.0	0.00000
MULTIPLE FRAGMENT WOUND BRAIN	69	0.1	0.00054
MULTIPLE FRAGMENT WOUND CHEST	79	0.1	0.00062
MULTIPLE FRAGMENT WOUND BACK	37	0.0	0.00029
WOUND BRAIN	101	0.1	0.00079
OPEN WOUND CHEST	35	0.0	0.00027
OPEN WOUND BACK	32	0.0	0.00025
OPEN WOUND SHOULDER/UPPER ARM	132	0.1	0.00103
OPEN WOUND ELBOW, FOREARM, WRIST	273	0.3	0.00214
OPEN WOUND HAND(S)/FINGERS	992	0.9	0.00776
OPEN WOUND UPPER LIMB(S) MULTIPLE	196	0.2	0.00153
OPEN WOUND BUTTOCKS	66	0.1	0.00052
OPEN WOUND HIP/THIGH	345	0.3	0.00270
OPEN WOUND KNEE/LOWER LEG/ANKLE	769	0.7	0.00602
OPEN WOUND FOOT/TOES	542	0.5	0.00424
OPEN WOUND LOWER LIMB(S) MULTIPLE	161	0.2	0.00126
OPEN WOUNDS MULTIPLE OTHER & UNSPCD	859	0.8	0.00672
CONTUSION SHOULDER/UPPER ARM	34	0.0	0.00027
CONTUSION ELBOW, FOREARM, WRIST	47	0.0	0.00037
CONTUSION HAND/FINGERS	59	0.0	0.00046
CONTUSION HIP, THIGH, LEG, ANKLE	369	0.3	0.00289
CONTUSION FOOT AND TOE(S)	111	0.1	0.00087
CONTUSION TRUNK	361	0.3	0.00282
AMPUTATION FOOT	12	0.0	0.00009
AMPUTATION LEG(S)	32	0.0	0.00025
AMPUTATION TOES	24	0.0	0.00019
AMPUTATION FINGERS/THUMBS	201	0.2	0.00157
AMPUTATION ARMS/HANDS	30	0.0	0.00023

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
PNEUMOHEMOTHORAX	50	0.0	0.00039
INTRACRANIAL HEMORRHAGE POST INJURY	21	0.0	0.00016
CONCUSSION	444	0.4	0.00347
SPINAL CORD LESION NO BONE INJURY	29	0.0	0.00023
INJURY NERVES LOWER LEG	29	0.0	0.00023
INJURY NERVES UPPER ARM	35	0.0	0.00027
INJURY NERVES FOREARM	38	0.0	0.00030
INJURY NERVES THIGH	18	0.0	0.00014
INJURY NERVES FOOT & ANKLE	19	0.0	0.00015
INJURY NERVES WRIST/HAND	39	0.0	0.00031
INJURY NERVES CRANIAL	71	0.1	0.00056
OTHER UNSPECIFIED NERVE INJURY	43	0.0	0.00034
SUPERFICIAL WOUNDS	461	0.4	0.00361
MULTIPLE ORGAN DAMAGE	45	0.0	0.00035
WOUND LIVER	10	0.0	0.00008
WOUND KIDNEY	31	0.0	0.00024
WOUND PELVIC ORGANS	12	0.0	0.00009
WOUND SPLFEN	18	0.0	0.00014
WOUND GASTROINTESTINAL TRACT	31	0.0	0.00024
WOUND EXTERNAL GENITALIA	42	0.0	0.00033
INJURY HEART/LUNG	11	0.0	0.00009
WOUND SCALP	168	0.2	0.00131
WOUND FACE JAWS NECK	388	0.4	0.00304
EYE WOUND	215	0.2	0.00168
OPEN WOUND EAR	144	0.1	0.00113
FOREIGN BODY EYE	70	0.1	0.00055
BURNS LOWER EXTREMITIES	134	0.1	0.00105
BURNS TRUNK	57	0.0	0.00045
BURNS HEAD & NECK	62	0.1	0.00048
BURN EYE	40	0.0	0.00031

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
BURNS UPPER EXTREMITIES	197	0.2	0.00154
BURNS MULTIPLE OTHER & UNSPCD	784	0.7	0.00613
STRAINS/SPRAINS ANKLE/FOOT	1100	1.0	0.00860
STRAINS/SPRAINS SACROILIAC	71	0.1	0.00056
SPRAIN WRIST/HAND/FINGERS	59	0.1	0.00046
STRAINS/SPRAINS KNEE	463	0.4	0.00362
SPRAINS & STRAINS MULT/OTHER/UNSPCD	1231	1.1	0.00963
FRACTURE HAND/WRIST/FINGERS	632	0.6	0.00494
FRACTURE TIBIA & FIBULA	510	0.5	0.00399
FRACTURE PELVIS	66	0.1	0.00052
FRACTURE SCAPULA	21	0.0	0.00016
FRACTURE SKULL LOC < 1 HOUR	0	0.0	0.00000
FRACTURE SKULL LOC 1-24 HOURS	0	0.0	0.00000
FRACTURE SKULL LOC > 24 HOURS	0	0.0	0.00000
FRACTURE SKULL NO/UNSPECIFIED LOC	122	0.1	0.00095
FRACTURE FEMUR	175	0.2	0.00137
FRACTURE UPPER LIMB	53	0.0	0.00041
FRACTURE LOWER LIMB	62	0.1	0.00048
FRACTURE RIB/STERNUM/LARYNX/TRACHEA	68	0.1	0.00053
FRACTURE RADIUS/ULNA	378	0.4	0.00296
FRACTURE HUMERUS	137	0.1	0.00107
FRACTURE CLAVICLE	90	0.1	0.00070
FRACTURE SPINE NO CORD DAMAGE	257	0.2	0.00201
FRACTURE SPINE WITH CORD DAMAGE	14	0.0	0.00011
FRACTURE ANKLE/FOOT/TOES	838	0.8	0.00656
FRACTURE PATELLA	57	0.0	0.00045
FRACTURE FACE BONES	613	0.6	0.00480
FRACTURE MULTIPLE OTHER & UNSPCD	151	0.1	0.00118
DISLOCATION KNEE	711	0.7	0.00556
DISLOCATION ANKLE	19	0.0	0.00015

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>	<u>RATE</u>
DISLOCATION HIP	16	0.0	0.00013
DISLOCATION SHOULDER	242	0.2	0.00189
DISLOCATION FOOT/TOES	17	0.0	0.00013
DISLOCATION HAND/WRIST	11	0.0	0.00009
DISLOCATION FINGERS	27	0.0	0.00021
DISLOCATION ELBOW	33	0.0	0.00026
DISLOCATION JAW	8	0.0	0.00006
TOXIC INHALATION	24	0.0	0.00019
TRAUMA-EARLY COMPLICATIONS	206	0.2	0.00161
TRAUMA MULTIPLE OTHER & UNSPECIFIED	442	0.4	0.00346
COMPLICATIONS MEDICAL CARE/SURGERY	336	0.3	0.00263
SUPPLEMENTAL CLASSIFICATION	1653	1.5	0.01293
 TOTAL	 108955	 100.0	 0.85227

TABLE 11. FREQUENCIES OF PROPOSED ICD-9 DNBI CATEGORIES; SECONDARY
DIAGNOSES AMONG U.S. MARINES IN VIETNAM

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
FEBRILE ILLNESS EXCLUDING PNEUMONIA	2932	7.4
FOOD POISONING BACTERIAL	3	0.0
DIARRHEAL DISEASE/DYSENTERY	326	0.8
ENTERITIS SPECIFIED ORGANISM	2	0.0
TUBERCULOSIS ALL TYPES	24	0.1
MENINGOCOCCAL INFECTIONS	3	0.0
HERPES SIMPLEX & HERPES ZOSTER	24	0.1
ENCEPHALITIS	57	0.1
HEPATITIS INFECTIOUS VIRAL	157	0.4
ANIMAL BITES/RABIES EXPOSURE	1	0.0
MUMPS	5	0.0
INFECTIOUS MONONUCLEOSIS	109	0.3
TRACHOMA	1	0.0
STD-SYPHILIS	17	0.0
STD-GONOCOCCAL INFECTIONS	120	0.3
STD-OTHER VENEREAL DISEASES	60	0.2
DERMATOPHYTOSIS & DERMATOMYCOSIS	421	1.1
HELMINTHIASIS	1125	2.8
PEDICULOSIS	24	0.1
SCABIES	0	0.0
INFECTIVE & PARASITIC DISEASES OTHER	1003	2.5
NEOPLASMS MALIGNANT	66	0.2
NEOPLASMS BENIGN & UNSPECIFIED	149	0.4
THYROID DISORDER	18	0.1
DIABETES MELLITUS	35	0.1
ALLERGIC DISORDERS	45	0.1

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
AVITAMINOSES/NUTRITIONAL DEFICIENCIES	109	0.3
OBEILITY & HYPERALIMENTATION	17	0.0
ENDOCRINE/NUTRIT/METABOLIC DIS OTHER	104	0.3
ANEMIAS ALL TYPES	523	1.3
OTHER DIS BLOOD/BLOOD-FORMING ORGANS	190	0.5
PSYCHOSIS	136	0.3
NEUROSIS/PERSONALITY DIS/TSD/CONDUCT	1205	3.0
ALCOHOL ABUSE	65	0.2
DRUG ABUSE NON-ALCOHOL	96	0.2
BEHAVIORAL DISORDERS OTHER	349	0.9
ENCEPHALITIS/MYELITIS/ENCEPHALOMYELIT	61	0.2
EPILEPSY	46	0.1
MIGRAINE	23	0.1
CONJUNCTIVA DISORDER OF	18	0.1
BLEPHARITIS/HORDEOLUM	9	0.0
KERATITIS/IRITIS/CHOROIDITIS	40	0.1
REFRACTIVE & ACCOMMODATION ERRORS	19	0.1
OTITIS MEDIA & EXTERNA	229	0.6
EAR & MASTOID OTHER DISEASES OF	269	0.7
EYE OTHER DISEASE OF	294	0.7
NERVOUS SYST/SENSE ORGAN DISORD OTHER	402	1.0
RHEUMATIC DISEASE W/WOUT HEART INVOLV	32	0.1
HYPERTENSIVE DISEASES	128	0.3
ISCHEMIC HEART DISEASE ALL FORMS	8	0.0
HEMORRHOIDAL DISEASE	100	0.3
PHLEBITIS & THROMBOPHLEBITIS	62	0.2
INTRACRANIAL HEMORRHAGE NON-TRAUMATIC	8	0.0
CEREBROVASCULAR DISEASES OTHER	11	0.0
ARTERIES/ARTERIOLES DISEASES OF	60	0.2
CIRCULATORY SYSTEM DISEASES OTHER	224	0.6

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
PHARYNGITIS/NASOPHARYNGITIS/SINUSITIS	245	0.6
UPPER RESPIRATORY INFECTIONS ACUTE	200	0.5
BRONCHITIS & BRONCHIOLITIS	522	1.3
INFLUENZA	75	0.2
PNEUMONIA ALL TYPES	391	1.0
ASTHMA	98	0.3
ALLERGIC RHINITIS/HAYFEVER	37	0.1
PNEUMOTHORAX	21	0.1
RESPIRATORY SYSTEM DISEASES OTHER	586	1.5
TEETH & SUPPORTING STRUCTURES DIS OF	147	0.4
PEPTIC ULCER GASTRIC/DUODENAL	259	0.6
GASTRITIS/DUODENITIS/ENTERITI/COLITIS	884	2.2
APPENDICITIS	109	0.3
HERNIA ABDOMINAL CAVITY ALL TYPES	173	0.4
LIVER DISEASE & CIRRHOSIS	162	0.4
PANCREAS DISEASE OF	15	0.0
DIGESTIVE SYSTEM DISEASES OTHER	436	1.1
URETHRITIS NON-VENEREAL	105	0.3
KIDNEY & URETER DISEASES OF	281	0.7
BLADDER DISEASES OF	80	0.2
URINARY TRACT/URETHRA DISEASES OTHER	222	0.6
PROSTATE DISEASES OF	208	0.5
REDUNDANT PREPUCE & PHIMOSIS	83	0.2
MALE GENITAL ORGANS OTHER DISORDERS	395	1.0
BREAST DISEASES OF	13	0.0
OVARY & FALLOPIAN TUBE DISEASES OF	0	0.0
CERVIX/CERVIX UTERI DISEASES OF	0	0.0
UTERUS/VAGINA/VULVA DISEASES OF	0	0.0
MENSTRUATION DISORDERS OF	1	0.0
FEMALE GENITAL ORGANS OTHER DISEASES	2	0.0

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
ECTOPIC PREGNANCY	0	0.0
ABORTION SPONTANEOUS & INDUCED	0	0.0
DELIVERY WITHOUT COMPLICATIONS	1	0.0
DELIV/ANTE/POSTPARTUM COMPLICATIONS	0	0.0
CARBUNCLES & FURUNCLES	128	0.3
CELLULITIS AND ABSCESS	948	2.4
PILONIDAL CYST/ABSCESS	34	0.1
DERMATITIS/DERMATOSIS/ECZEMA	265	0.7
NAIL DISEASES OF	50	0.1
SWEAT & SEBACEOUS GLANDS DISEASES OF	261	0.7
ULCER SKIN CHRONIC	202	0.5
OTHER INFECT SKIN & SUBCUTANEO TISSUE	1339	3.4
ARTHRITIS & RHEUMATISM	107	0.3
ARTHROPATHIES/JOINT DISORDS OTHER	702	1.8
INTERNAL DERANGEMENT JOINT	158	0.4
INTERVERTEBRAL DISC DISORDER	71	0.2
BONE & CARTILAGE DISORDERS	275	0.7
SYNOVITIS BURSITIS TENOSYNOVITIS	209	0.5
MUSCULOSKELETAL/CONNECTIVE DIS OTHER	637	1.6
CONGENITAL ANOMALIES	287	0.7
PERINATAL MORBIDITY & MORTALITY	2	0.0
HEADACHE	238	0.6
UREMIA	12	0.0
OTHER SYMPTOMS/ILL-DEFINED CONDITIONS	5235	13.2
EFFECTS REDUCED TEMP/EXCESS DAMPNESS	379	1.0
EFFECTS HEAT/LIGHT	309	0.8
EFFECTS OTHER EXTERNAL CAUSES	13	0.0
ADVERSE EFFECTS MEDICINAL SUBSTANCES	153	0.4
ADVERSE EFFECTS INDUSTRIAL SUBSTANCES	44	0.1
TOXIC EFFECT SUBSTANCES UNSPECIFIED	32	0.1

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
ADV EFFECT BAROMETRIC PRESSUR CHANGES	3	0.0
MULTIPLE FRAGMENT WOUND BRAIN	30	0.1
MULTIPLE FRAGMENT WOUND CHEST	31	0.1
MULTIPLE FRAGMENT WOUND BACK	10	0.0
WOUND BRAIN	85	0.2
OPEN WOUND CHEST	25	0.1
OPEN WOUND BACK	26	0.1
OPEN WOUND SHOULDER/UPPER ARM	48	0.1
OPEN WOUND ELBOW, FOREARM, WRIST	153	0.4
OPEN WOUND HAND(S)/FINGERS	348	0.9
OPEN WOUND UPPER LIMB(S) MULTIPLE	136	0.3
OPEN WOUND BUTTOCKS	31	0.1
OPEN WOUND HIP/THIGH	119	0.3
OPEN WOUND KNEE/LOWER LEG/ANKLE	327	0.8
OPEN WOUND FOOT/TOES	191	0.5
OPEN WOUND LOWER LIMB(S) MULTIPLE	143	0.1
OPEN WOUNDS MULTIPLE OTHER & UNSPCD	454	1.2
CONTUSION SHOULDER/UPPER ARM	22	0.1
CONTUSION ELBOW, FOREARM, WRIST	29	0.1
CONTUSION HAND/FINGERS	44	0.1
CONTUSION HIP, THIGH, LEG, ANKLE	229	0.6
CONTUSION FOOT AND TOE(S)	53	0.1
CONTUSION TRUNK	157	0.4
AMPUTATION FOOT	8	0.0
AMPUTATION LEG(S)	31	0.1
AMPUTATION TOES	22	0.1
AMPUTATION FINGERS/THUMBS	85	0.2
AMPUTATION ARMS/HANDS	22	0.1
PNEUMOHEMOTHORAX	49	0.1
INTRACRANIAL HEMORRHAGE POST INJURY	21	0.1

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
CONCUSSION	211	0.5
SPINAL CORD LESION NO BONE INJURY	34	0.1
INJURY NERVES LOWER LEG	54	0.1
INJURY NERVES UPPER ARM	33	0.1
INJURY NERVES FOREARM	68	0.2
INJURY NERVES THIGH	17	0.0
INJURY NERVES FOOT & ANKLE	16	0.0
INJURY NERVES WRIST/HAND	64	0.2
INJURY NERVES CRANIAL	66	0.2
OTHER UNSPECIFIED NERVE INJURY	75	0.2
SUPERFICIAL WOUNDS	306	0.8
MULTIPLE ORGAN DAMAGE	66	0.2
WOUND LIVER	21	0.0
WOUND KIDNEY	32	0.1
WOUND PELVIC ORGANS	14	0.0
WOUND SPLEEN	14	0.0
WOUND GASTROINTESTINAL TRACT	38	0.1
WOUND EXTERNAL GENITALIA	20	0.0
INJURY HEART/LUNG	21	0.0
WOUND SCALP	63	0.2
WOUND FACE JAWS NECK	298	0.8
EYE WOUND	153	0.4
OPEN WOUND EAR	143	0.4
FOREIGN BODY EYE	57	0.1
BURNS LOWER EXTREMITIES	54	0.1
BURNS TRUNK	20	0.1
BURNS HEAD & NECK	21	0.1
BURN EYE	16	0.0
BURNS UPPER EXTREMITIES	68	0.2
BURNS MULTIPLE OTHER & UNSPCD	224	0.6

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
STRAINS/SPRAINS ANKLE/FOOT	211	0.5
STRAINS/SPRAINS SACROILIAC	47	0.1
SPRAIN WRIST/HAND/FINGERS	29	0.1
STRAINS/SPRAINS KNEE	224	0.6
SPRAINS & STRAINS MULT/OTHER/UNSPCD	431	1.1
FRACTURE HAND/WRIST/FINGERS	214	0.5
FRACTURE TIBIA & FIBULA	158	0.4
FRACTURE PELVIS	49	0.1
FRACTURE SCAPULA	14	0.0
FRACTURE SKULL LOC < 1 HOUR	0	0.0
FRACTURE SKULL LOC 1-24 HOURS	0	0.0
FRACTURE SKULL LOC > 24 HOURS	0	0.0
FRACTURE SKULL NO/UNSPECIFIED LOC	44	0.1
FRACTURE FEMUR	49	0.1
FRACTURE UPPER LIMB	17	0.0
FRACTURE LOWER LIMB	30	0.1
FRACTURE RIB/STERNUM/LARYNX/TRACHEA	33	0.1
FRACTURE RADIUS/ULNA	120	0.3
FRACTURE HUMERUS	46	0.1
FRACTURE CLAVICLE	31	0.1
FRACTURE SPINE NO CORD DAMAGE	85	0.2
FRACTURE SPINE WITH CORD DAMAGE	15	0.0
FRACTURE ANKLE/FOOT/TOES	315	0.8
FRACTURE PATELLA	34	0.1
FRACTURE FACE BONES	88	0.2
FRACTURE MULTIPLE OTHER & UNSPCD	55	0.1
DISLOCATION KNEE	289	0.7
DISLOCATION ANKLE	24	0.1
DISLOCATION HIP	14	0.0
DISLOCATION SHOULDER	43	0.1

<u>DESCRIPTION</u>	<u>FREQUENCY</u>	<u>PERCENT</u>
DISLOCATION FOOT/TOES	7	0.0
DISLOCATION HAND/WRIST	21	0.1
DISLOCATION FINGERS	16	0.0
DISLOCATION ELBOW	22	0.1
DISLOCATION JAW	2	0.0
TOXIC INHALATION	6	0.0
TRAUMA-EARLY COMPLICATIONS	130	0.3
TRAUMA MULTIPLE OTHER & UNSPECIFIED	372	0.9
COMPLICATIONS MEDICAL CARE/SURGERY	306	0.8
SUPPLEMENTAL CLASSIFICATION	1384	3.5
 TOTAL	 39,599	 100.0

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19. ABSTRACT (Continue on reverse if necessary and identify by block number) Combat preparedness requires accurate projections of the medical resources that will be needed in a theater of operations. The Deployable Medical Systems (DEPMEDS) initiative projects the required medical supplies based on the anticipated frequencies of occurrence within a set of Patient Conditions (PCs). A recent investigation of Marine hospitalizations in Vietnam found that the PCs accounted for only 73 percent of the battle injuries and 63 percent of the disease admissions. The present investigation examined the disparity between PC codes and actual hospital diagnoses. The specificity and multiplicity of the PC criteria often prevented accurate conversions from the International Classification of Diseases (ICD-9) codes in use at treatment facilities. Some PC criteria could be accommodated using similar yet inexact matches while other were not translatable. Additionally, some hospital admissions were unaccounted for using the PC system. A diagnoses system based on ICD-9 classifications and encompassing all admissions in a theater of operations was proposed.					
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