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A GUIDE TO THE COMPUTERIZED MEDICAL DATA RESOURCES OF
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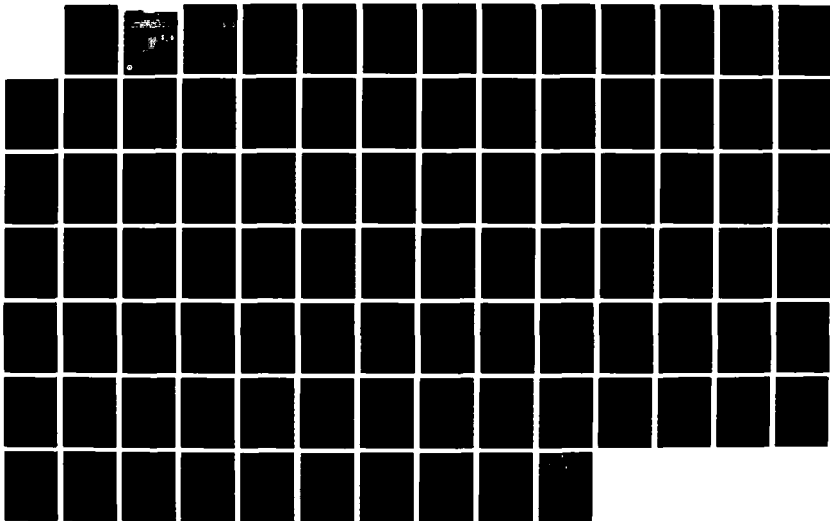
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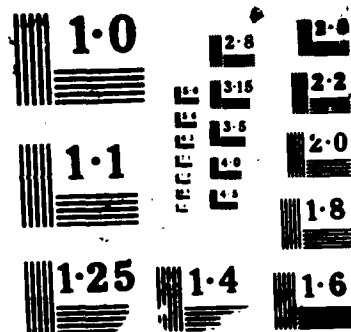
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F. C. GARLAND
J. C. HELMKAMP
E. K. E. GUNDERSON
E. D. GORHAM
M. M. MILLER
M. S. McNALLY
F. A. THOMPSON

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NAVAL HEALTH RESEARCH CENTER
P.O. BOX 85122
SAN DIEGO, CALIFORNIA 92138

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
BETHESDA, MARYLAND



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**A Guide to the Computerized Medical Data Resources of the
Naval Health Research Center**

Frank C. Garland, Ph.D.
LCDR James C. Helmkamp, MSC, USN
E. K. Eric Gunderson, Ph.D.
Edward D. Gorham, B.A.
Milan W. Miller
Michael S. McNally, B.S.B.A.
Frank A. Thompson

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Naval Health Research Center
P. O. Box 85122
San Diego, California 92138-9174

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SUMMARY

Problem

The need for development of a comprehensive occupational health surveillance program was identified in the Occupational Health and Safety Act of 1970 and is required under the Navy's NAVOSH Program. The Naval Health Research Center has developed extensive computerized medical data resources for use in disease and injury surveillance, occupational health, and epidemiologic research.

Objective

To give a broader segment of the Department of the Navy an understanding of the data resources and research goals of the Occupational Medicine Department at the Naval Health Research Center.

Approach

— This report describes in detail the Inpatient Follow-up Data System. Data files included in this system are: The Service History File, the Medical History File, and the Career History File. The format and sources of the data elements in these files and the coding schemes used to construct variables within the files are fully described. —

Results

Research studies at NHRC have shown that the data resources identified in this report provide valuable information on the incidence, treatment, and outcome of disease and injury in Navy and Marine Corps populations. By combining the medical and demographic information contained in the data systems at NHRC researchers have carried out very large-scale prospective epidemiologic studies of these populations.

Conclusions

Advancing knowledge of the health status of Navy and Marine Corps personnel is a critical step in developing effective disease and injury prevention programs and is required under the Navy's NAVOSH Program. The data resources described in this report can play an important part in helping the Navy Medical Command meet its occupational health responsibilities.

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Preface

This monograph describes the medical information resources of the Naval Health Research Center (NHRC). It is designed to enable potential users of the data files maintained at NHRC to understand their contents and how they are being used for occupational medicine, epidemiological studies, clinical research, and administrative applications. These integrated historical data files are unique; there are none like them in the Department of Defense. Combined with the powerful computerized analytic capabilities which have been developed at the Center, they provide the Naval Medical Command with an extensive capability for addressing critical information needs in occupational health, preventive medicine, medical support planning, and personnel requirements. These data resources are currently supporting a wide range of studies designed to address the most pressing health and fitness issues facing the Navy. The causes and the effects of acute and chronic diseases, accidental injuries, and mental and behavior disorders are being addressed under a broad-based program.

Questions about these resources should be directed to: Commanding Officer, Naval Health Research Center, P.O. Box 85122, San Diego, CA 92138-9174, Autovon 933-2911 or Commercial (619) 225-2911.

Introduction

The Naval Health Research Center has developed computerized medical and personnel data files that provide extensive information for Navy medical management and for occupational health and epidemiologic research. The purpose of this monograph is to describe in detail these computerized resources and to suggest future uses for environmental and occupational medicine, epidemiologic research, health care management, and health policy and planning. Research studies completed have shown that these resources provide valuable information on incidence, treatment, and outcomes of disease and are advancing knowledge of health and disease in Navy and Marine Corps populations. This knowledge is a critical step in developing effective prevention programs.

The medical and personnel files described in this monograph are obtained primarily from two sources: the Naval Medical Data Services Center in Bethesda, MD, and the Navy Personnel Research and Development Center in San Diego. Medical data cover all Navy enlisted personnel serving on active duty since 1 January 1965, and active-duty Navy officers and Marine Corps personnel since 1 January 1974. Similarly, personnel data cover all Navy enlisted personnel on active duty since 1 January 1965 and will soon cover active-duty Navy officers and Marine Corps personnel since 1 January 1974.

All files are maintained by the Occupational Medicine Department of NHRC, and this Department is responsible for developing and extending NHRC's capabilities for epidemiologic analysis.

The combined medical and personnel data presently include information on approximately 3,000,000 individuals. The present report provides an overview of how this resource is being used at the Naval Health Research Center.

The mission of the Naval Health Research Center, as assigned by the Secretary of the Navy, and two of the functions to be performed to accomplish the mission, as assigned by the Commander, Naval Medical Command (NHRCINST 5450.1E), are:

To support fleet operational readiness through research, development, testing, and evaluation on the biomedical and psychological aspects of Navy and Marine Corps personnel health and performance, and to perform such other functions or tasks as may be directed by higher authority.

As directed by the Commanding Officer, Naval Medical Research and Development Command, Bethesda, Maryland:

a. Conduct occupational health and safety studies of the Naval service to: identify environmental hazards in the workplace and aboard ship; assess the impact of potentially harmful agents or conditions on health and performance; determine causal factors in illness and accidents; and to develop cost-effective intervention strategies

b. Maintain data files of medical and service history information for all Naval personnel to: serve as the basis for longitudinal health studies on morbidity, disability, and mortality in relation to demographic, occupational, environmental, psychological, and service history variables; identify health and safety risks to Naval personnel; and to assess the impact of chronic disease on performance and retention.

Computerized medical files were first established by NHRC's present Chief Scientist, Dr. E. K. Eric Gunderson, in the late 1960's to investigate the epidemiology of psychiatric disorders. In 1975 the mission of the Center was broadened from primarily psychiatric research to include the investigation of all types of disease and injury. Research programs in occupational medicine and epidemiology were developed in the late 1970's when it became apparent that these files would have special value for occupational health surveillance in Naval industrial and operational environments.

It was recognized that complete use of these medical data resources would require the special expertise of epidemiologists and biostatisticians. Epidemiology has special importance for risk assessment and disease prevention and control. An important aspect of most epidemiologic studies is the ability to calculate specific rates, for example, by age, sex, race, and occupation. Nearly all comparisons of rates among populations require statistical adjustment for age or other factors known to influence the distribution of the disease under study. Appropriate methods for assessing the statistical significance of observed differences also must be used.

The NHRC staff of epidemiologists, psychologists, statisticians, and computer programmers has developed a broad program of investigations in occupational health and epidemiology which applies state-of-the-art computer technology to research needs.

Section I

The Occupational Medicine Department

1. Background

The need for an information-based approach to establishing occupational health priorities through epidemiologic research has steadily grown since passage of the Occupational Safety and Health Act (OSHA) in 1970 and the signing of a Presidential Executive Order (E.O. 12196) which directed federal agencies to implement the provisions of OSHA. This order called for the federal government to take an exemplary role in providing safe working conditions. These landmark legislations have been followed by many Department of Defense and Department of the Navy Directives and Instructions providing guidelines for maintaining safe and healthful workplaces. Specifically, the Navy's NAVOSH Program requires the development of a comprehensive occupational health surveillance program (OPNAVINST 5100.23B).

2. Research Objectives

The Department's program of long-range and short-term research objectives support the NAVOSH program and are detailed in 5-year plans and annual research work units. The Department, however, continually addresses specific requests from other Navy commands, and the epidemiologists and other staff within the Department have been working closely with the Navy Environmental Health Center (NEHC) and other Navy commands to respond to these requests in a thorough and timely manner. These commands have increasingly found NHRC medical data sources valuable in answering occupational health questions. The Department conducts many disease surveillance and disability studies. Chronic diseases which have been studied in Naval personnel with emphasis on occupational associations include Hodgkin's disease, testicular cancer, leukemia, and non-Hodgkin's lymphomas¹⁻⁴.

Recently a series of reports⁵⁻⁸ as well as published articles⁹⁻¹¹ were completed which examined accident and injury-related hospitalizations among male Navy enlisted personnel during the period 1977-83. The objective of these studies was to determine if various environmental and occupational variables could help explain the risk differential observed across operational and occupational groups. Results indicated that risks of serious injury varied widely as a function of seniority, duty status, external cause of accident, time in assignment, and type of duty station.

The Department receives many requests to use in-house data files to supply information for medical and research uses and for medically-related administrative applications. These requests come from the Chief of Naval Operations, the Naval Medical Command, NEHC, and other Navy commands. The following are examples:

1. An inquiry from the Vice CNO (ltr 16 SEP 85 Ser 09/SU3013303) regarding possible excess morbidity in Naval engineering occupations. In response NHRC completed a study of disease and accident incidence in engineering personnel during the period 1974-83¹².

2. An inquiry from the Secretary of the Navy, concerning a possible cluster of breast cancer cases at the Combat Systems Technical Command Schools at Mare Island, California. NHRC completed a study detailing the 6-year history of breast cancer occurrence at this facility, along with an analysis of breast cancer in all Naval personnel.

3. An inquiry from the Navy Environmental Health Center requesting two epidemiologic investigations of the potential adverse health effects from exposure to Otto Fuel II. NHRC completed studies which assessed whether Torpedoman's Mates potentially exposed to Otto Fuel II had a significantly higher risk of cardiovascular disorders and of undesirable reproductive outcomes for females exposed¹³⁻¹⁴.

Studies of other disorders and their possible association with specified risk factors completed in response to inquiries include Guillian-Barre Syndrome¹⁵, knee injuries¹⁶ alcohol and drug abuse, suicide, tuberculosis, toxic inhalation, hypothermia, burns, and drowning.

3. Departmental Organization

The Occupational Medicine Department has four Programs as shown in Figure 1: Occupational Epidemiology, Medical Follow-up, Accident and Injury Surveillance, and Social Epidemiology. While working together to support an effective occupational health and epidemiology research agenda, these Programs have their specific areas of concentration, as outlined in the following sections.

Occupational Epidemiological Program

The overall objective of this Program is the development of a comprehensive environmental, occupational health, and epidemiology surveillance system. The systems developed within this program provide a means to

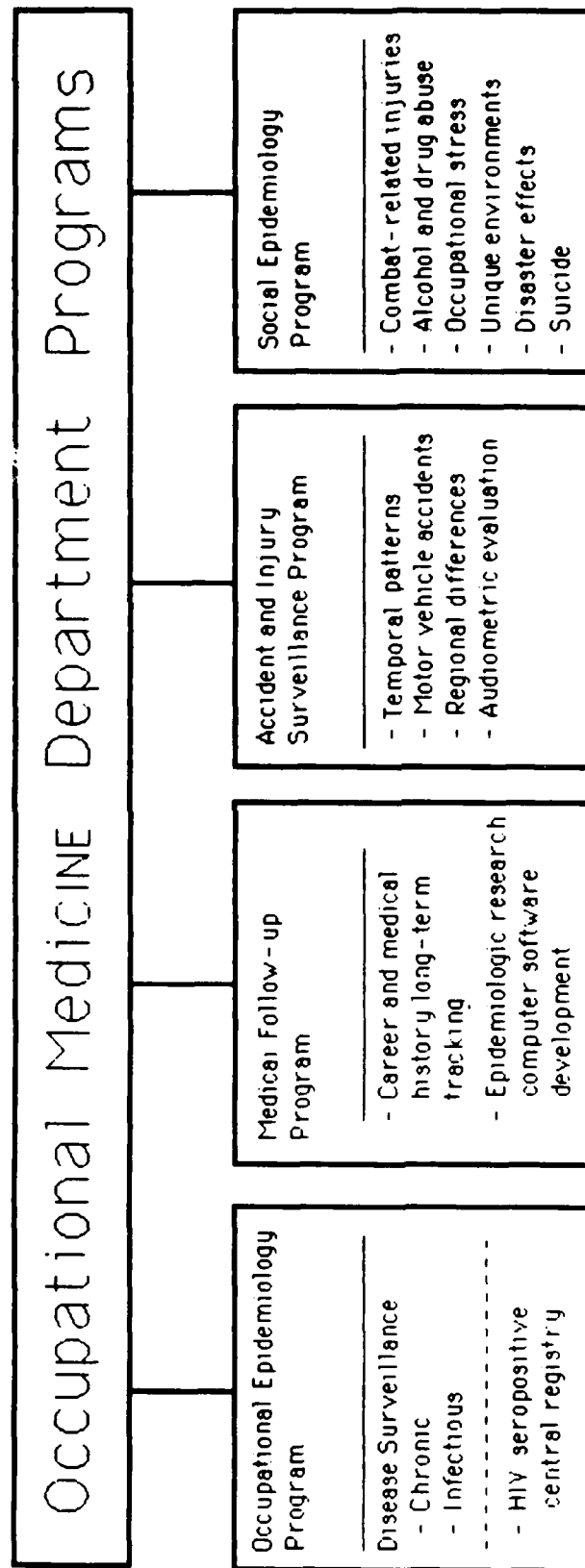


Figure 1. Occupational Medicine Department Programs,
Naval Health Research Center, 1987

identify occupational and environmental factors that may modify risks of disease, as well as personal history and lifestyle factors that may influence these risks.

Current resources are being expanded to include new sources of information and faster means of data management and analysis. The current medical and career history files will be linked with information obtained through the Navy Occupational Health Information Management System (NOHIMS), and with other data sources including the Medical Follow-up Agency, the Veteran's Administration, the Social Security Administration, and the National Death Index from the National Center for Health Statistics.

HIV Seropositivity Central Registry. Within the Occupational Epidemiology Program a rapid means of transferring data from the Naval Hospital, Bethesda, to NHRC on all positive tests for Human Immunodeficiency Virus (HIV) seroconversion performed on Navy and Marine Corps personnel has been established. This interactive system provides a current HIV seropositivity file maintained at NHRC and management information for the HIV Special Projects Officer. Social security numbers are verified on all seropositive personnel by linkage with NHRC Career History Files.

Questionnaire data from the four Naval Hospitals where HIV seropositive personnel are evaluated (Bethesda, Portsmouth, Oakland, San Diego) provide a central registry for all clinical information. Reports from these questionnaires are produced and provided to the Naval Medical Command. Development of longitudinal prospective study designs based on cohorts of seroconverters and appropriate controls are beginning. The Navy population provides a unique opportunity for long-term follow-up of seroconverters and of individuals with exposures to high-risk population groups or high-risk geographic areas. In combination with career history information research questions such as the effect of HIV seroconversion on performance and careers can be addressed.

Medical Follow-up Program

This Program supports all research conducted within the Department by maintaining departmental files and developing the programming necessary for updating and accessing medical history and career history files. These files are more fully described in Section II. In order to update files with the most recent data available, the staff members of this program maintain a close liaison with the Naval Medical Data Services Center in Bethesda and the

Navy Personnel Research and Development Center in San Diego. This program is also developing state-of-the-art computer programming for remote data entry and case verification for the HIV Central Registry.

Accident and Injury Surveillance Program

This Program conducts research to help identify groups that are at an increased risk for a hospitalization resulting from an accident or injury. Study of individual, occupational, temporal, and causal factors provide a better understanding of accident risk and will help focus preventive and corrective efforts. Research is currently focused in two general areas: accident risk on shore or at sea (both on duty and off duty) and audiometric evaluations.

Social Epidemiology Program

This Program conducts research to determine the influence on health of social factors in Navy environments. Two specific types of environments are emphasized: occupational environments such as duty stations and workplaces, and operational environments such as military conflicts and deployments of ships and Fleet Marine Force units. Major research areas of this program include the epidemiology of psychiatric casualties, battle wounds, suicide, disaster effects, and the stresses of prolonged duty in extreme environments.

Section II

Data Resources

1. Inpatient Follow-up Data System

This system allows a rapid means of risk assessment in Navy occupational groups. The Inpatient Follow-up Data System consists of several main data files including the Service History File, the Population Denominator Count File, the Medical History File, and Career History File. Each is described in detail below and their relationship is shown in Figure 2.

2. Service History File

The Service History File contains personnel and service history data on all enlisted Naval personnel who have served on active duty since January 1965. It is compiled from monthly Navy Military Personnel Command (NMPC) change tape extracts from January 1965 to the present. It is a cumulative record of important changes in personnel status and is organized in chronological order by event date. It tracks a member from the date of enlistment to the date of discharge or death. Most of the data elements in these files have tended to remain constant over the years, and the database has been thoroughly edited.

The 80 characters composing each individual's first record are called the Demographic and Service History Summary Record. The most important items from the Demographic and Service History Summary Record are grouped into the following categories: Demographic and Identifying Variables, Military Qualifications, and Service History Summary. These sets of variables are described in detail below.

Demographic and Identifying Variables. Key demographic and identifying variables are listed below.

- | | |
|----------------------------|---------------------------|
| o Social security number | o Ethnic group |
| o Service number | o Marital status |
| o Name (7 character field) | o Birth date/age enlisted |
| o Sex | o State of residence |
| o Race | o Citizenship |

All members who came into the Navy after 30 June 1971 have a nine-digit social security number (SSN). The SSN replaced the seven-digit service number which was used prior to this date. Members who entered before 1 July 1971 may have only a service number unless a SSN was assigned at a later

Service History File	
Contents:	Naval career events for about 3 million active-duty enlisted personnel in chronological order for the period 1965-85.
Format:	Variable record length
Update:	Annual
Source:	Navy Military Personnel Command, Arlington, Virginia, Transaction file (a continuously updated fixed record length file containing enlisted personnel career events)

Medical History File	
Contents:	- All hospitalizations (up to 9 diagnoses per hospitalization) in Naval enlisted active-duty personnel in chronological order for the period 1965-85. - All Medical Board actions - All Physical Evaluation Board actions - All Death reports
Format:	Variable record length
Update:	Annual
Source:	Naval Medical Data Services Center, Bethesda, Maryland, Medical Command Health Event File (a continuously updated variable record length file containing medical information)

Population Denominator Count File	
Contents:	Counts of individuals, and person-years for specific categories for active-duty enlisted personnel. Counts include: - Age-race-sex specific - Occupation specific - Activity specific
Format:	Fixed record length
Update:	Annual
Source:	Navy Military Personnel Command, Arlington, Virginia, Transaction file

Inpatient Medical System Files

Career History File															
Contents:	All information contained in Service History and Medical files combined into one file														
Format:	Segmented file (14 segments), each segment is fixed length and begins with the same 80 character demographic segment.														
Segments:	<table> <tr> <td>1. Duty stations</td><td>8. Desertion</td></tr> <tr> <td>2. Inpatient</td><td>9. Discharge</td></tr> <tr> <td>3. Medical Board</td><td>10. Extension</td></tr> <tr> <td>4. Demographic</td><td>11. Name changes</td></tr> <tr> <td>5. Pay grade</td><td>12. SSN change</td></tr> <tr> <td>6. Accessions</td><td>13. Radiation badge</td></tr> <tr> <td>7. Death</td><td>14. Pay entry base date</td></tr> </table>	1. Duty stations	8. Desertion	2. Inpatient	9. Discharge	3. Medical Board	10. Extension	4. Demographic	11. Name changes	5. Pay grade	12. SSN change	6. Accessions	13. Radiation badge	7. Death	14. Pay entry base date
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6. Accessions	13. Radiation badge														
7. Death	14. Pay entry base date														
Update:	Annual														
Source:	Service History file combined with Medical History file														

Figure 2. Inpatient Follow-up Data System Files, Naval Health Research Center, 1987

date. The SSN (or service number) serves as the primary link to other data files.

Seven characters of the name appear on the file; however, a microfiche Navy Bidex File published by NMPC is also maintained at NHRC to determine complete name, if needed. This file contains name, social security number, occupation, and current duty station for active-duty and reserve personnel, and, for retired personnel, retired status. The file is updated monthly for both officers and enlisted personnel and provides complete name (needed when requesting clinical records) when only a social security number or partial name is available.

The coding of race has changed over the years. Code definitions, and when they were applied, are indicated below:

- o Caucasian
- o Black
- o American Indian (discontinued after Oct 1975; reinstated Apr 1979)
- o Malaysian (discontinued after Oct 1975; reinstated Apr 1979)
- o Mongolian (discontinued after Oct 1975)
- o Other
- o Not reported/unknown

As of November 1975, American Indian, Malaysian (includes Filipino), and Mongolian were no longer specified; they were grouped under "Other". In April 1979, American Indian and Malaysian were reinstated as separate categories.

Ethnic group was introduced as a variable on 1 July 1973. This variable refers to common ethnic characteristics and cultural heritage; this information is provided by the member. Ethnic group includes the following categories:

- | | |
|--------------------|------------------------------|
| o Spanish | o Chinese |
| o American Indian | o Japanese |
| o Asian American | o Korean |
| o Filipino | o Other Pacific Island |
| o Mexican American | o Latin American |
| o Eskimo | o Vietnamese |
| o Aleut | o Micronesia |
| o Cuban American | o Other (not reported above) |

- o Indian (from India)
- o Melanesian
- o None
- o Not Reported

Marital status is indicated at the time of entry into service as:

- o Unknown
- o Single
- o Married
- o Divorced/separated/widowed.

Marital status can be determined at any point in an individual's career by checking current Primary Dependents Code. Birth date is reported by year and Julian day (YYJJJ). State of enlistment indicates the state or U.S. possession in which the member was a resident at the time of entry into service.

Citizenship indicates the member's status at the time of enlistment as follows:

- o U.S. citizen by birth
- o U.S. citizen by naturalization
- o U.S. citizen by birth (derivative)
- o U.S. citizen by naturalization (derivative)
- o An alien
- o Citizenship unknown

Military Qualifications. The variables included under this category are as follows:

- o General Classification Test (GCT) Score
- o Armed Forces Qualifications Test (AFQT) Score/Armed Forces Women's Selection Test Score
- o Mental group
- o Education certificate
- o SCREEN Score

The GCT Score is designed to measure ability to understand verbal relationships. Since 1 July 1973 this test score has not been reported for every member.

The AFQT Score is available on all members after 30 June 1973 and is available on some members before that date. For female members this field will contain Armed Forces Women's Selection Test Scores. Norms provided for

the AFQT were calculated incorrectly during the period 1 January 1976 through 30 September 1980, so this variable must be used with caution.

Mental group is a classification of verbal reasoning ability based upon either the AFQT or GCT Score and is reported for males only.

The Education certificate variable indicates the type of diploma or degree held by the individual. (Note: Another variable, Education, which indicates the number of years of schooling completed, appears on all Service History Event Records; see below.)

The SCREEN Score is defined as the probability that a recruit will successfully complete the first year of enlistment. The Score is derived from four elements obtained at the time of recruitment: Age, education, AFQT, and marital status. Female members do not have SCREEN Scores. If a member does not have an AFQT Score, a GCT Score is substituted for calculation.

Service History Summary. This category includes the following variables which pertain to initial program assignments and summary performance. Disciplinary data, including demotions and confinements, also are covered.

- o Active-duty service date
- o Not recommended to reenlist
- o Military obligation designator
- o Total promotions
- o Recruit training command
- o Total demotions
- o Recruit type enlistment
- o Total UAs
- o Recruit program at enlistment
- o Total desertions
- o Recruit program/school
- o Total military confinements
- o Sea/shore duty
- o Total civilian confinements
- o Regular/reserve
- o Total number career events
- o Attrition indicator

Following the initial Demographic and Service History Summary Record from one to 200 service history events (changes in personnel status) are

entered in sequence in the individual's service history. Two types of service history events are recorded. The first type involves a change in career status—promotion, demotion, desertion, reenlistment, etc. The second type of service history event is a change in duty station. This information is not obtained from the change tapes used to update the Enlisted Master Record but from quarterly extracts of the Enlisted Master Record itself (a cross-sectional roster of the entire Navy enlisted population).

Each Service History Event Record contains 60 characters of dynamic data. These sets of data differ somewhat for duty station transfer events and other service history events. The two sets of variables are shown below.

Variables common to Service History Events and Duty Station Transfers:

- | | |
|----------------------------|------------------------|
| o Pay entry base date | o Event code |
| o Onboard activity | o Regular/reserve |
| accounting category | o Number of enlistment |
| o End of obligated service | o Education |
| o Sea/shore code | o Term of enlistment |
| o Date of event | o Primary dependents |
| o Duty station code | o Paygrade |

Variables different for Service History Events and Duty Station Transfers:

- | Service History | Duty Station |
|---------------------------------|---------------------------------|
| o DOD Loss Code | o Duty Station Planned Rotation |
| o Reenlistment Quality Control | o Current Evaluation |
| o Six-year Obligation Indicator | o Enlisted Designator |
| o Rate Code (occupation) | o School Date |
| o Primary Naval Enlist. Class. | o School Course |
| o Term Status/Enlist. Number | o Duty Station Home Port |
| o Event Descriptions | o Onboard Activity Code |

A complete listing of Navy enlisted occupations is shown in Appendix 1.

Navy Officer Service History. This file is currently being constructed by NHRC at Argonne National Laboratories. This file includes demographic and career data for an average annual population of 75,000 officers and parallels the Service History File for enlisted personnel. The number of individuals included is increasing with backdating of the file to January 1974. Updating is based on annual snapshots of the Navy officer population and monthly

change tapes available through the Naval Medical Data Services Center. Appendix 2 summarizes billet and officer designator codes for unrestricted, restricted, staff, and limited duty Navy officers.

Marine Corps Service History. This file is currently being constructed at Argonne National Laboratories and contains demographic and career data for 230,000 Marine Corps officers and enlisted personnel. Data are in the same format as Navy officer and enlisted data but include new variables particular to the Marine Corps. For example, a Marine Corps variable such as military occupational specialty designation will appear in the file where Navy enlisted rate code or Navy officer designation code would appear in the Navy files. Appendix 3 provides a list of military occupational specialty (MOS) codes common to Marine Corps officers and enlisted personnel.

The database is constructed on quarterly snapshots of the Marine Corps population combined with monthly transaction or change tapes. Data are kept as current as possible and construction of the file will proceed from the present quarter back in time and eventually be back-dated to January 1974.

3. Population Denominator Count File

The Population Denominator Count (PDC) file contains annual population counts for the entire enlisted population. The file is in a condensed format and is stored on disk to allow rapid access to Navy population data from 1974 to the present. Annual population counts are determined by summing five quarterly counts for each calendar year (31 December of the preceding year and 31 March, 30 June, 30 September, and 31 December of the year of interest) and dividing this sum by 5 to estimate the population at risk for the given year. Such denominators are needed for the calculation of disease incidence rates by age, sex, race, length of service, occupation, or combinations such as age-specific rates by occupation. The PDC file is derived from the Enlisted Master File (EMF) supplied by the Navy Military Personnel Command. The EMF contains personnel and service history data members. An extract is copied from the EMF quarterly and this extract provides counts of Navy enlisted personnel broken down by the most frequently used demographic and service history variables and combinations of these. The variables represented in the PDC file and their categories are as follows:

- o Age 17 through 60 by single years, 61 and over grouped
- o Race Caucasian, Black, Oriental, American Indian, Malayasian, Not Recorded
- o Sex Male, female
- o Paygrade E1 through E9
- o Education <8 grouped, 9 through 20 by single years
- o Length of service 1 through 30 by single years, 31 and over grouped
- o Rate (occupation) All Navy occupations, approximately 110 (see Appendix 1)
- o Rate group Eleven rate groups (see Appendix 4)
- o Activity Six grouped activities

Specific population counts available from the Population Denominator Count (PDC) File are:

- o Age-, race-, sex-specific counts by occupation or paygrade or length of service or education.
- o Occupation-, race-, sex-specific counts by length of service or paygrade.
- o Activity-, race-, sex-specific counts by rate group, or paygrade, or length of service.

Quarterly or annual counts reflecting the specific subpopulations of interest are stored on disk and are immediately retrievable. An example of a frequently used combination would be age distributions within occupational specialties for male caucasian members to compute age-specific hospitalization rates by occupation, sex, and race. Other examples might be black Boiler Technicians aboard destroyers who have less than three years of service or female Hospital Corpsman who have some college education and are pay grade E-6 or above. This file can be used to determine number of individuals, or more commonly, person-years at risk during a specified time period.

Occupational subspecialties (Primary Naval Enlistment Classification [PNEC] Codes) within larger occupational groupings, such as x-ray technician,

laboratory technician, operating room technician, independent duty corpsman, etc., within the Hospital Corpsman rate can also be retrieved.

4. Medical History File

The Medical History file allows a rapid means of case ascertainment in active-duty Navy personnel. This file can be searched for the occurrence of any disease listed in the ICDA-7th, 8th, and 9th revisions using a coding scheme devised by NHRC. The records are arranged in order by date of hospitalization (earliest hospitalization first) and contain up to nine discharge diagnoses for each hospitalization. This allows identification of all first hospitalizations, a good estimate of disease incidence for disorders serious enough to require hospitalization. First hospitalizations, once ascertained, can be stored in a file with a configuration identical to the PDC file. These files can then be merged and first hospitalization (incidence) rates calculated.

The Medical History file has four components: Hospitalizations, Medical Boards, Physical Evaluation Boards, and Deaths. These files are originally compiled as separate record systems by the Naval Medical Data Services Center, Bethesda, Maryland. After preliminary editing, copies of the files are forwarded to the Naval Health Research Center. NHRC performs additional editing and combines the four files into a single file which comprise individual medical histories. Each individual's medical records are linked together by social security number and are ordered chronologically. This sequence of records provides a complete active-duty inpatient medical history and the results of Medical or Physical Evaluation Board actions from the date of enlistment to discharge or death. The file includes all Navy and Marine Corps personnel who have served on active duty since 1965.

Diagnostic and demographic information from the hospital record contained on the Medical History file can be validated against information contained on the Physical Evaluation Board file and the Medical Board file. These files contain diagnoses assigned after board review of medical records by at least two physicians and serve as an in-house method of verifying hospital discharge diagnoses.

When necessary, complete paper originals of medical records are obtained by NHRC from the National Personnel Records Center in St. Louis, Missouri, or from Naval hospitals. These records are then compared with computerized data

or independently assessed by appropriate medical personnel in San Diego, and diagnoses are verified in this manner.

The first 80 characters of each record provide a demographic and service history summary segment which was described in the section on the Service History file. This demographic segment is identical in format in the four medical files and allows for record linkage among files. The four component files are described in the following sections.

Hospitalization File. This file contains information on all hospitalizations of active-duty Navy personnel. Hospitalizations appear in chronological order by date of hospital discharge. Some of the most important variables included in the Hospitalization file include:

- o Demographic/service history summary
- o Admitting facility: UIC
- o Admission/discharge dates
- o Number of days hospitalized
- o Type of admission: direct, transfer, etc.
- o Discharge diagnoses (up to nine)
- o Occupation
- o Occupationally related
- o Existed prior to service
- o External cause code
- o Duty station
- o Surgical procedures

Hospitalizations appear in chronological order by date of hospital discharge. The first variable following the demographic section of the record is the Unit Identification Code (UIC) of the admitting facility. This information is necessary for retrieval of clinical records from the hospital or from the National Personnel Records Center in St. Louis.

Next are admission and discharge dates from which the length of stay in the hospital is computed. Type of hospital admission is indicated--whether direct or by transfer from another facility.

Up to nine discharge diagnoses appear for each hospitalization. Discharge diagnoses are represented by five-digit NHRC diagnostic codes. These codes are described in Section IV.

The hospitalization file records an individual's current occupational specialty and whether the present disease or condition is occupationally related. If the condition existed prior to enlistment this also is indicated in the hospitalization file.

The file contains an External Cause Code, a four-digit Department of Defense Disease and Injury Code that is used with Accidents, Poisonings, or

Violence related diagnoses. The first digit of this code identifies the general class of trauma (battle wound or injury, intentionally inflicted non-battle injury, or accidental injury). The remaining three digits identify the specific causative agent and in some cases the place of occurrence.

The file reflects duty station at the time of hospitalization, and if the duty station is a ship, a code that indicates location.

Surgical procedures utilized are coded as specified in the International Classification of Diseases 9th Revision Clinical Modification Manual ¹⁷.

Several demographic variables appear in the medical records that parallel data elements in the 80-character demographic segment which is obtained from the Service History file. These include age, paygrade, length of service, and occupation. In some cases these are self-reported data and should not be used without validation against service history sources.

Medical Board File. Some of the more frequently used data elements contained in the Medical Board file include:

- o Demographic/service history summary
- o Date of Medical Board
- o Whether admitted to hospital
- o Admitting facility: UIC
- o Primary/secondary/tertiary diagnoses
- o Whether condition existed prior to service
- o Occupation
- o External Cause Code
- o Duty station
- o Final disposition

Following the demographic summary section the date of the Medical Board appears. Whether the individual was admitted to a hospital (sick list) or not and the admitting facility are indicated.

Primary, secondary, and tertiary diagnoses as determined by the Board are given, and whether the condition existed prior to enlistment. As in the Hospitalization file, occupation, external cause code (for accidents), and duty station at the time of the Board are recorded in this file. Finally, disposition by the Board is indicated.

Physical Evaluation Board File. Selected data elements in the Physical Evaluation Board file are shown below.

- o Demographic/Service History Summary
- o Date of initial Board
- o Date of last Board
- o Date of current Board
- o Reporting facility: UIC
- o Primary/secondary diagnoses
- o Type of transaction
- o PEB location
- o Existed prior to enlistment
- o Occupation
- o External Cause Code

Following the demographic/service history summary the dates of the initial Board for this condition, the last Board, and the current Board are given. The reporting facility where the evaluation was conducted and the primary and secondary diagnoses assigned are indicated. The type of transaction refers to change in status from a previous Board to the current one. The location of the Board is given (e.g., San Diego, Bethesda).

Death Registry. The Death Registry contains two major components: (1) Report of Casualty (DD Form 1300) for both Naval active-duty and inactive enlisted and officer personnel provided by NMPC and (2) computerized death records for all active-duty Navy and Marine Corps enlisted and officer personnel.

Appendix 5 provides a detailed explanation of the use of the DD Form 1300 and the coding scheme developed for its incorporation into the death registry. The individual's SSN is the link between the DD Form 1300 file and the death record.

The computerized death record contains the usual demographic and service history summary. The date of death and the place of death including the reporting facility, the type of death, and type of record transaction are coded. Again, occupation, external cause code, and duty station are indicated. The underlying, intervening, and contributing diagnoses are also recorded. Variables in the Death Record include:

- o Demographic/service history summary
- o Date of death
- o Reporting facility: UIC
- o Type of transaction:
- o Type of death report received
- o Type of death
- o Place of death
- o Occupation
- o External Cause Code
- o Duty station

Navy Officer Medical History File. A complete file of hospitalizations for all Navy officers is currently being constructed at Argonne National

Laboratories by NHRC. This file contains up to nine discharge diagnoses for each hospitalization occurring during active duty. The data elements parallel those of enlisted personnel. The file also contains Medical Board and Physical Evaluation Board findings. Back-dating of this file will continue to January 1974.

Marine Corps Medical History File. A complete file of hospitalizations for Marine officer and enlisted personnel is currently being constructed by NHRC at Argonne National Laboratories. This file also contains up to nine discharge diagnoses for each hospitalization a Marine Corps officer or enlisted serviceman has during their career. Diagnostic codes will appear in a format similar to the Navy Officer and Enlisted Medical History file. Back-dating of this file will continue to January 1974.

5. Career History File

When the Service History and Medical History files are combined into one file of events arranged in chronological order, the resulting integrated system is referred to as the Career History file (See Figure 2). This file contains all important service history and medical history events over the individual's entire career.

An example follows to illustrate the contents of the Career History File for a typical enlistment. In this example the original numerically coded information has been translated into a narrative description.

The information contained in the Career History file for one individual is shown below. The basic demographic and service history information for this individual indicated: White, male; born July 3, 1949; SCREEN Score = 90%, AFQT = 73; Education = 12 years; married, no children. Service History and Medical History Events appear as follows:

Event No.	Date	Description
1	3/16/65	Enlistment age 17, E1 (Seaman Recruit), NTC Great Lakes
2	5/31/65	Promoted to E2 (Seaman Apprentice)
3	8/5/65	Unauthorized absence (PEB date changed to 10/30/64)
4	2/1/66	Promoted to E3 (Seaman)
5	10/16/66	Promoted to E4 (Storekeeper Third Class)
6	4/16/68	Promoted to E5 (Storekeeper Second Class)
7	7/3/68	Discharged less than 90 days early

Event No.	Date	Description
8	7/4/68	Reenlisted 6 years bonus
9	1/1/69	Change in primary dependents (01)
10	3/9/70	Change in primary dependents (02)
11	6/9/70	Hospitalized 5 days for surgical removal of appendix at Bethesda Naval Hospital
12	2/10/71	Transfer to USS Holland (AS-32)(Submarine Tender)
13	3/29/73	Change in Primary Dependents (03)
14	5/16/74	Promoted to E6 (Storekeeper First Class)
15	6/12/74	Extension Agreement (Non-Operative) 25 Months
16	7/1/74	Extension Obligation 25 Months
17	7/29/74	Transfer to Fleet Polaris Materiel Office
18	6/2/76	Discharge Less than 90 Days Early
19	6/3/76	Reenlisted 4 Year Bonus
20	12/31/76	Transfer Temporary Duty Amphibious Training Little Creek, VA
21	1/25/77	Transfer to Personnel Exchange Program
22	10/16/77	Correction of Auto-Advancement to E7 (Storekeeper Chief)
23	6/11/79	Transfer to USS Francis Scott Key
24	3/2/80	Discharge Less than 90 Days Early
25	3/3/80	Reenlisted 5-Year Bonus
26	7/31/80	Transfer to Naval Weapon Station, Charleston, SC
27	6/18/81	Hospitalized 1 Day Alcohol Dependence Syndrome
28	8/1/83	Transfer to USS Narwhal (SSN-671)
29	9/4/84	Transfer to Naval Station Charleston, SC (Transient)
30	9/30/84	Release to Inactive Duty, Fleet Reserve

Segmented Career History File. To facilitate analyses of the large Service and Medical History files, a Segmented Career History file has been created. Each of 14 subfiles has the same general format and contains a demographic segment that can be used for matching. The events included in separate subfiles are as follows: demographics, accessions, deaths, desertions, discharges, duty station changes, extensions of active duty, name changes, paygrades, and social security number changes. Information

contained in multiple subfiles can be linked through the social security number, if necessary.

Section III

Analytical Support

Epidemiologic Statistical Analysis Programs

Epidemiology uses a number of unique statistical analysis techniques that are not currently available in widely used packaged programs such as SPSS and BMDP. Packaged programs offer a great deal of statistical flexibility for file organization, cross-tabulation, and standard analyses such as calculation of means and accompanying standard deviations, and these are extensively used by epidemiologists at NHRC. Programs for adjustment of rates for confounding variables and interval estimation using the Poisson distribution (suitable for rare events) are not available in packaged programs, however.

Various programs designed for epidemiologic analysis have been developed and are in use at NHRC. The programs can be used to calculate incidence rates or mortality rates, evaluate the statistical significance of these rates (using either the Poisson or Normal distribution) and adjust rates according to differences in factors such as age, sex, or smoking status. Epidemiologic resource programs developed within the department include:

- o STANDERR Calculates adjusted rates using the direct method with 95% confidence limits based on the normal distribution. Written in UCSD Pascal for the VAX 11/785.
- o SIR RESOURCE Calculates Standardized Incidence Ratios (SIRs) and indirectly age-adjusted rates. The program applies standard rates (e.g., SEER rates) to the study population from the PDC File, yielding an expected number of cases. Observed numbers of cases are determined from the Medical History File. Written in Fortran for the VAX 11/785.
- o STANDARDIZER Calculates exact 95% confidence limits for a Standardized Incidence (or Mortality) Ratio based on the Poisson distribution. Written for the Hewlett-Packard 67 and 41CV.
- o POISSON RESOURCE Calculates unadjusted rates with 95% confidence limits based on the Poisson distribution. Written in Datatrieve for the VAX 11/785.

- o RISK RESOURCE Calculates exact 95% confidence limits for the relative risk, and calculates an exact P-value for the relative risk. Written for the Hewlett-Packard 67 and 41CV.
- o LIMIT RESOURCE Calculates 95% confidence limits for rates based on the normal distribution. Written in Datatrieve for the VAX 11/785.
- o PYRS.FOR Computes person-years of observation by age to be used as denominators in the calculation of rates. The program takes into account both the number of persons in a study and the duration of observation of each person. Specifically, a person contributes a person-year when they are in a study for one year. Similarly, two people who are in a study for one-half year contribute one person year. Written in Fortran for VAX 11/785.
- o ALSTAT Calculates the number of Navy enlisted personnel in each rate (occupation) by age length of service, sex, and race for the calendar years 1974-1985.
- o AGEFLOAT Calculates the number of Navy enlisted personnel by age, length of service, sex, and race for the calendar years 1974-1985.

Section IV
Disease Classification

Disease and Injury Coding Systems

NHRC uses a coding system which insures compatibility of the different coding schemes which have been used by the Navy medical community since 1965. This system provides one NHRC code which identifies a particular disorder which appeared in the following coding systems:

- o Department of Defense Disease and Injury Codes (DDIC), in use from Jan 1965-Dec 1969;
- o International Classification of Disease, Adapted for Use in the United States, Eighth Revision (ICDA-8), in use from Jan 1970-Dec 1979;
- o International Classification of Disease, Ninth Revision (ICD-9), in use from Jan 1980 to Dec 1985; and
- o International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9CM), in use Jan 1986 - present.

Currently, injuries and disease are grouped into 18 diagnostic categories listed below.

1. Infective and parasitic disease
2. Neoplasms
3. Endocrine, nutritional, metabolic
4. Diseases of blood and blood forming organs
5. Mental disorders
6. Nervous system and sense organs
7. Diseases of circulatory system
8. Diseases of respiratory system
9. Diseases of digestive system
10. Diseases of genitourinary system
11. Complications of pregnancy
12. Diseases of skin and subcutaneous system
13. Diseases of musculoskeletal system
14. Congenital anomalies
15. Certain causes of perinatal morbidity
16. Symptoms and ill-defined conditions

17. Accidents, poisonings, and violence

18. Special conditions

NHRC Coding. The first three digits of the NHRC diagnostic code describe 976 specific diseases or injuries; the following two digits allow up to 99 subcodes for each major diagnostic category. Most conditions require only four or five subcodes to conform to different revisions of the ICD codes. An example of the use of these codes is provided below:

<u>Code</u>	<u>Description</u>
531	Kidney Infection
53101	Kidney Infection, chronic pyelonephritis
53104	Kidney Infection, renal and perinephric abscess

A partial list of the NHRC diagnostic codes and the associated medical conditions appear in Appendix 6.

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APPENDICES

APPENDIX 1

Naval Enlisted Personnel Occupation (rate) Codes (in order by numerical code) Naval Health Research Center, 1987

<u>Numer- ical Code</u>	<u>Alpha Abbrev- iation</u>	<u>Available Pay- grades</u>	<u>Occupation (Rate)</u>
0100	BM	E1-E9	Boatswain's Mate
0150	MA	E5-E9	Master-at-Arms
0200	QM	E1-E9	Quartermaster
0250	SM	E1-E9	Signalman
0300	OS	E1-E9	Operations Specialist
0350	EW	E1-E9	Electronics Warfare Technician
0400	ST	E9	Sonar Technician
0401	STG	E1-E8	Sonar Technician-Surface
0404	STS	E1-E8	Sonar Technician-Submarine
0450	OT	E9	Ocean Systems Technician
0451	OTA	E1-E8	Ocean Systems Technician Analyst
0452	OTM	E1-E8	Ocean Systems Technician Maintenance
0500	TM	E1-E9	Torpedoman's Mate (Sub/Surf)
0600	GM	E8-E9	Gunner's Mate
0601	GMM	E1-E7	Gunner's Mate-Missiles
0602	GMT	E1-E9	Gunner's Mate-Technician
0604	GMG	E1-E7	Gunner's Mate-Guns
0800	FT	E8-E9	Fire Control Technician
0801	FTG	E2-E7	Fire Control Technician-Gun
0802	FTM	E1-E7	Fire Control Technician-Surface Missile
0803	FTB	E1-E7	Fire Control Technician-Ballistic Miss.
0810	MT	E1-E7	Missile Technician
0900	MN	E1-E9	Mineman
1000	ET	E1-E9	Electronics Technician
1001	ETN	E1-E5	Electronics Technician-Communications
1002	ETR	E1-E5	Electronics Technician-Radar
1010	DS	E1-E9	Data Systems Technician
1080	PI	E9	Precision Instrumentman
1100	IM	E1-E8	Instrumentman
1200	OM	E1-E8	Opticalman
1400	NC	E5-E9	Navy Counselor
1500	RM	E1-E9	Radioman
1611	CTT	E1-E9	Cryptologic Technician-Technical
1622	CTA	E1-E9	Cryptologic Technician-Administration
1633	CTM	E1-E9	Cryptologic Technician-Maintenance
1644	CTO	E1-E9	Cryptologic Technician-Communications
1655	CTR	E1-E9	Cryptologic Technician-Collection
1666	CTI	E1-E9	Cryptologic Technician-Interpretive
1700	YN	E1-E9	Yeoman
1701	CYN	E1-E9	Communications Yeoman
1750	LN	E5-E9	Legalman
1800	PN	E1-E9	Personnelman
1900	DP	E1-E9	Data Processing Technician
2000	SK	E1-E9	Storekeeper
2100	DK	E1-E9	Disbursing Clerk

2200	MS	E1-E9	Mess Management Specialist
2300	IS	E1-E9	Intelligence Specialist
2490	SH	E1-E9	Ship's Serviceman
2600	JO	E1-E9	Journalist
2700	PC	E1-E9	Postal Clerk
3100	LI	E2-E9	Lithographer
3200	DM	E1-E9	Illustrator-Draftsman
300	MU	E2-E9	Musician
3600	SR, SA, SN	E1-E3	Seaman recruit, Apprentice, Seaman
3700	MM	E1-E9	Machinist's Mate
3800	EN	E1-E9	Engineman
3900	MR	E1-E9	Machinery Repairman
4000	BT	E1-E9	Boiler Technician-at E6 may opt for BR
4020	BR	E6-E9	Boilermaker
4100	EM	E1-E9	Electrician's Mate
4200	IC	E1-E8	Interior Communications Electrician
4300	HT	E1-E9	Hull Maintenance Technician
4400	GS	E8-E9	Gas Turbine System Technician
4401	GSE	E1-E7	Gas Turbine System Electrician
4402	GSM	E1-E7	Gas Turbine System Mechanical
4600	PM	E1-E7	Patternmaker
4700	ML	E1-E9	Molder
5000	FR, FA, FN	E1-E3	Fireman Recruit, FN Apprentice, Fireman
5080	CU	E9	Constructionman
5100	EA	E1-E8	Engineering Aid
5300	CE	E1-E8	Construction Electrician
5380	EQ	E9	Equipmentman
5410	EO	E1-E8	Equipment Operator
5500	CM	E1-E8	Construction Mechanic
5600	BU	E1-E8	Builder
5700	SW	E1-E8	Steelworker
5800	UT	E1-E9	Utilitiesman
6000	CR, CA, CN	E1-E3	Construction Recruit, Construction Apprentice, Constructionman
6080	AF	E9	Aircraft Maintenance Technician
6180	AV	E9	Avionics Technician
6200	AD	E1-E8	Aviation Machinist's Mate
6205	ADR	E1-E7	Aviation Machinist's Mate-Reciprocating Engines
6206	ADJ	E1-E7	Aviation Machinist's Mate-Jet Engines
6300	AT	E1-E8	Aviation electronics Technician
6310	AX	E1-E8	Antisubmarine Warfare Technician
6400	AW	E1-E9	Aviation ASW Operator (Acoustic/Non-acoustic)
6500	AO	E1-E9	Aviation ordnanceman
6520	AQ	E1-E8	Aviation Fire Control Technician
6600	AC	E1-E9	Air Controlman
6700	AB	E8-E9	Aviation Boatswain's Mate
6704	ABE	E1-E7	Aviation Boatswain's Mate-Launch/Recovery Equipmentman
6705	ABF	E1-E7	Aviation Boatswain's Mate-Fuels
6706	ABH	E1-E7	Aviation Boatswain's Mate-Aircraft Handling
6800	AE	E1-E8	Aviation Electrician's Mate
6900	AM	E8	Aviation Structural Mechanic
6901	AMS	E1-E7	Aviation Structural Mechanic-Structures
6902	AMH	E1-E7	Aviation Structural Mechanic-Hydraulics

6903	AME	E1-E7	Aviation Structural Mechanic-Safety Equipment
7000	PR	E1-E9	Aircrew Survival Equipmentman
7100	AG	E1-E9	Aerographer's Mate
7200	TD	E1-E9	Tradesman
7300	AK	E1-E9	Aviation Storekeeper
7400	AZ	E1-E9	Aviation Maintenance Administrationman
7500	AS	E6-E9	Aviation Support Equipment Technician
7501	ASE	E2-E5	Aviation Support Equipment Technician-Electrical
7502	ASH	E1-E5	Aviation Support Equipment Tech-Hydraulics/Structures
7503	ASM	E1-E5	Aviation Support Equipment Tech-Mechanical
7600	PH	E1-E9	Photographer's Mate
7800	AR,AA,AN	E1-E3	Airman Recruit, AN Apprentice, Airman
8000	HR,HA,HN	E1-E3	Hospital Recruit, HN Apprentice, Hospitalman
8000	HM	E4-E9	Hospital Corpsman
8300	DR,DA,DN	E1-E3	Dental Recruit, DN Apprentice, Dentalman
8300	DT	E4-E9	Dental Technician (General/Prosthodontics/Repair)
0000			Not Reported

APPENDIX 2

Billet and Navy Officer Designator Codes Designator Advisors Officer Grade Codes

Section 1 - General

1. General Categories. Billet and Navy officer designator codes are grouped in general categories as follows:

a. Unrestricted Line. Officers of the line of the Regular Navy and Naval Reserve who are not restricted in the performance of duty.

b. Restricted Line. Officers of the line of the Regular Navy and Naval Reserve who are restricted in the performance of duty by having been designated for engineering duty, aeronautical engineering duty, or special duty.

c. Unrestricted Line - Prospective Staff Corps. Unrestricted Line officers under instruction as prospective officers of a specific staff corps.

d. Staff Corps. Officers of all staff corps of the Regular Navy and Naval Reserve. The eight staff corps are:

- | | |
|------------------------------------|--------------------------|
| (1) Medical Corps | (5) Nurse Corps |
| (2) Dental Corps | (6) Supply Corps |
| (3) Medical Service Corps | (7) Chaplain Corps |
| (4) Judge Advocate General's Corps | (8) Civil Engineer Corps |

e. Limited Duty - Line. Officers of the line of the Regular Navy and Naval Reserve appointed for the performance of duty in the broad occupational fields indicated by their former warrant designators or enlisted rating groups.

f. Limited Duty - Staff. Officers of the staff of the Regular Navy and Naval Reserve appointed for the performance of duty in the broad occupational fields indicated by their former warrant designators or enlisted rating groups.

g. Commissioned Warrants - Line. Officers of the Regular Navy and Naval Reserve appointed to commissioned warrant officer for the performance of duty in the technical fields indicated by former enlisted rating groups.

h. Commissioned Warrants - Staff. Officers of the Regular Navy and Naval Reserve appointed to commissioned warrant officer for the performance of duty in the technical fields indicated by former enlisted rating groups.

2. Officer Billet Designator Codes

a. The officer billet designator codes are four-digit numbers used to identify the primary naval specialty qualifications required of the billet incumbent and to administratively categorize officer billets for proper management and identification. They serve as a manpower management tool when used in conjunction with the officer designator codes. These codes are

entered in the Manpower Authorizations (OPNAV Form 1000/2) to indicate the categories of officers required for the billets.

b. Category Definitions of Billets Requiring Aeronautically Designated Officers

(1) Code 0 - Other Than Operational Flying Billet. This category billet (Designator Codes 1230, 1240, 1250, 13X0) requires an aeronautically designated officer because of his/her aviation oriented background, experience and warfare expertise, but no requirements exist to operate an aircraft or its weapons systems in support of specific aviation operational missions. Certain aeronautically designated incumbents of other than operational flying billets are eligible to participate while in a DIFDEN status as described in OPNAVINST 3710.7 series.

(2) Code 1 - Operational Flying. This category billet (Designator Codes 12X1, 13X1, 15X1, 63X1) is derived from the application of crew ratios multiplied against unit equipped aircraft. It is a billet in which an aeronautically designated officer is required to participate as a crew member in the operation of an aircraft or its weapons systems in support of specific aviation operational missions. Such operational missions include, but are not limited to, Tactical Air, ASW, SAR, Fleet Support, Training, Test and Evaluation, Logistic or Staff Support. In each instance, incumbents of operational flying billets are required to maintain basic flying skills and to fly frequently and regularly in the performance of their assigned duties. Such flying is considered operational flying as defined in paragraph 1001 of OPNAVINST 3710.7 series.

(3) Code 2 - Operational Flying. This category billet (Designator Codes 12X2, 13X2, 15X2, 1802, 2102, 2302, 6302) requires an aeronautically designated officer to fly frequently and regularly in the performance of the assigned duties, but the requirement is not derived from the application of crew ratios against unit equipped aircraft. Designated billets involve crew member flight duties which vary from complete aircraft/weapons system utilization to those less demanding in airborne duties and frequency of flight. Such operational missions include, but are not limited to, pertinent flight functions involving the exercise of Command and Control of Aircraft, Mission Support, Flight Safety, Aircrew Evaluation, Operational Readiness, Maintenance Programs and Weapons Test Evaluation. Such flying is considered operational flying as defined in paragraph 1001 of OPNAVINST 3710.7 series.

3. Officer Designator Codes

The officer designator codes are four-digit numbers used to group officers by categories for personnel accounting and administrative purposes and to identify the status of officers. These codes identify, through the first three digits, the categories in which officers are appointed and/or designated and, through the fourth digit, the status of the officers within the various categories. A listing by the first three digits of the officer designator codes and their description and the translation of the fourth digit are available at NHRC.

4. Designator Advisors, as indicated in the following section, are assigned by the CNO to represent the special interests and provide management advice for the respective specialty categories. Specific responsibilities are assigned in OPNAVINST 1000.16 series.

APPENDIX 3

USMC Numerical Index of Military Occupational Specialties

OF/ MOS	TITLE	CAT/ GRADE	DOD CODE
01	Personnel and Administration		
01	Basic Personnel and Administrative Officer	(I)	
*07	Civil Affairs Officer		5D
60	Postal Officer	(II,III)	7A
70	Personnel Officer	(II,III)	7A
80	Adjutant	(I)	7A
00	Basic Administrative Marine	GYSGT-PVT	950
21	Personnel Clerk	SGT-PVT	520
31	Unit Diary Clerk	SGT-PVT	510
51	Administrative Clerk	SGT-PVT	510
61	Postal Clerk	MGYSGT-PVT	554
*71	Administrative Control Unit Spec.	MGYSGT-CPL	531
93	Personnel/Administrative Chief	MGYSGT-SSGT	520
02	Intelligence		
01	Basic Intelligence Officer	(I)	
02	Intelligence Officer	(I)	3A
05	Tactical Intelligence Officer	(II,III)	3A
10	Counterintelligence Officer	(II,III)	3C
*40	Imagery Interpretation Officer		3A
*50	Interrogation-Translation Officer		3A
00	Basic Intelligence Marine	GYSGT-PVT	950
11	Counterintelligence Specialist	MSGT-SGT	244
31	Intelligence Specialist	MSGT-PVT	243
41	Imagery Interpretation Specialist	MSGT-SGT	242
51	Interrogation-Translation Specialist	MSGT-SGT	241
91	Intelligence Chief	MGYSGT	243
03	Infantry		
01	Basic Infantry Officer	(I)	
02	Infantry Officer	(I)	2E
*03	Light Armored Vehicle Officer		2E
00	Basic Infantryman	SGT-PVT	950
11	Rifleman	SGT-PVT	010
13	LAV Crewman	SGT-PVT	010
*21	Reconnaissance Man	SSGT-PVT	010
31	Machinegunner	SGT-PVT	010
*32	Gunner, Heavy Machinegun	CPL-PVT	010
41	Mortarman	SGT-PVT	010
51	Assaultman	SGT-PVT	010

52	Antitank Assault Guided Missile Man	SGT-PVT	010
69	Infantry Unit Leader	MGYSGT-SSGT	010
04 Logistics			
01	Basic Logistics Officer	(I)	
02	Logistics Officer	(I)	8A
*10	Maintenance Management Officer		8A
30	Embarkation Officer	(II,III)	8A
00	Basic Logistics Marine	GYSGT-PVT	950
11	Maintenance Management Specialist	MGYSGT-PVT	551
31	Logistics/Embarkation Specialist	SSGT-PVT	551
51	Air Delivery Specialist	SGT-PVT	860
81	Landing Support Specialist	GYSGT-PVT	030
91	Combat Support Chief	MGYSGT-GYSGT	551
08 Field Artillery			
01	Basic Field Artillery Officer	(I)	
02	Field Artillery Officer	(I)	2E
03	Survey and Meteorological Officer	(III)	4M
*40	Naval Gunfire Planner		2G
*45	Naval Gunfire Spotter		2G
00	Basic Field Artillery Man	GYSGT PVT	950
11	Field Artillery Cannoneer	MGYSGT-PVT	041
*#2	Field Artillery Nuclear Projectileman	MSGT-PVT	041
42	Field Artillery Radar Operator	SGT-PVT	221
44	Field Artillery Fire Control Man	SGT-PVT	041
47	Artillery Meteorological Man	SGT-PVT	420
48	Field Artillery Operations Man	MGYSGT-SSGT	250
61	Fire Support Man	MGYSGT-PVT	041
11 Utilities			
01	Basic Utilities Officer		
20	Utilities Officer	(III)	4A
00	Basic Utilities Marine	GYSGT-PVT	950
41	Electrician	SSGT-PVT	721
#2	Electrical Equipment Repair Specialist	SSGT-LCPL	721
61	Refrigeration Mechanic	SSGT-PVT	720
69	Utilities Chief	MGYSGT-GYSGT	720
71	Hygiene Equipment Operator	SSGT-PVT	720
*#2	Well Driller	SSGT-PVT	713
81	Fabric Repair Specialist	GYSGT-PVT	760
82	Office Machine Repair Specialist	GYSGT-PVT	670
13 Engineer, Construction, and Equipment			
01	Basic Engineer, Construction and Equipment Officer	(I)	
02	Engineer Officer	(I)	2E
10	Engineer Equipment Officer	(II,III)	4L
*30	Facilities Management Officer		4A
60	Construction Officer	(III)	4A

90	Bulk Fuel Officer	(III)	8B
00	Basic Engineer, Construction, and Equipment Marine	GYSGT-PVT	950
16	Metal Worker	SSGT-PVT	700
41	Engineer Equipment Mechanic	SSGT-PVT	612
45	Engineer Equipment Operator	SSGT-PVT	713
*#6	Rock Quarry Operator	SSGT-PVT	713
49	Engineer Equipment Chief	MGYSGT-GYSGT	612
71	Combat Engineer	MGYSGT-PVT	030
91	Bulk Fuel Specialist	MGYSGT-PVT	821
14 Drafting, Surveying, and Mapping			
01	Basic Mapping Officer		
02	Mapping Officer	(III)	4M
00	Basic Drafting, Surveying, and Mapping Marine	GYSGT-PVT	950
11	Construction Drafter	GYSGT-PVT	413
31	Map Compiler	GYSGT-PVT	411
41	Construction Surveyor	GYSGT-PVT	412
42	Geodetic Surveyor	GYSGT-PVT	412
53	Mapping Chief	MGYSGT&MSGT	411
15 Printing and Reproduction			
01	Basic Printing and Reproduction Officer		
02	Reproduction Officer	(III)	8G
00	Basic Printing and Reproduction Marine	GYSGT-PVT	950
21	Offset Press Operator	SGT-PVT	740
32	Process Camera Operator	SGT-PVT	740
41	Reproduction Chief	MGYSGT-SSGT	740
*42	Reproduction Equipment Repairer	GYSGT-CPL	690
18 Tank and Assault Amphibian			
01	Basic Tank Amphibian and Vehicle Officer	(I)	
02	Tank Officer	(I)	2E
03	Assault Amphibian Vehicle Officer	(I)	2E
00	Basic Tank and Assault Amphibian Crewman	GYSGT-PVT	950
11	Tank Crewman	MGYSGT-PVT	020
33	Assault Amphibian Crewman	MGYSGT-PVT	020
21 Ordnance			
01	Basic Ordnance Officer		4E
02	Ordnance Officer	(II)	4E
10	Ordnance Vehicle Maintenance Officer	(II,III)	4L
20	Weapons Repair Officer	(II,III)	4E
25	Electro-Optic Instrument Repair Officer	(III)	4E
00	Basic Ordnance Marine	GYSGT-PVT	960
11	Infantry Weapons Repairer	GYSGT-PVT	641

#2	Rifle Team Equipment Repairer	GYSGT-PVT	641
31	Artillery Weapons/Turret Repairer	GYSGT-PVT	642
42	Tracked Vehicle Repairer, Assault Amphibian Vehicle	GYSGT-PVT	611
44	Tracked Vehicle Repairer, Self-Propelled Artillery	GYSGT-PVT	611
45	Tracked Vehicle Repairer, Tank	GYSGT-PVT	611
#6	Tank Turret Repairer	GYSGT-CPL	643
47	Light Armored Vehicle Repairer	GYSGT-PVT	611
49	Ordnance Vehicle Technician	MSGT	611
61	Repair Shop Machinist	GYSGT-PVT	702
71	Optical Instrument Repairer	GYSGT-PVT	670
#2	Electro-Optical Equipment Technician	GYSGT-CPL	670
81	Weapon Technician	MSGT	640
91	Ordnance Chief	MGYSGT	640

23 Ammunition and Explosive Ordnance Disposal

01	Basic Ammunition and Explosive Ordnance Disposal Officer		
05	Explosive Ordnance Disposal Officer	(II,III)	4E
40	Ammunition Officer	(II,III)	8B
00	Basic Ammunition and Explosive Ordnance Disposal Marine	GYSGT-PVT	950
11	Ammunition Technician	MGYSGT-PVT	645
36	Explosive Ordnance Disposal Technician	MGYSGT-LCPL	431
*62	Ground Nuclear Ordnance Technician	MGYSGT-SGT	644

25 Operational Communications

01	Basic Operational Communications Officer	(I)	
02	Communication Officer	(I)	4C
03	Telecommunications Operations Officer	(III)	4C
*05	Telecommunication Systems Officer		4C
00	Basic Operational Communicator	GYSGT-PVT	950
12	Field Wireman	SGT-PVT	621
#3	Construction Wireman	SGT-PVT	621
19	Wire Chief	GYSGT-SGT	621
31	Field Radio Operator	SGT-PVT	202
#2	Microwave Equipment Operator	SGT-PVT	202
*#3	Radio Telegraph Operator	SGT-PVT	201
#4	High Frequency Communication Central Operator	SGT-PVT	202
#5	Fleet SATCOM Terminal Operator	SGT-PVT	202
#6	Ground Mobile Forces SATCOM Operator	SGT-PVT	202
37	Radio Chief	GYSGT-SGT	201
#8	Fleet SATCOM Radio Chief	GYSGT-SGT	201
#9	Ground Mobile Forces SATCOM Radio Chief	GYSGT-SGT	201
42	Communication Center Operator	SGT-PVT	260
49	Communication Center Chief	GYSGT-SGT	260
*81	Radio Frequency Management Technician	MSGT-SSGT	201
91	Operational Communication Chief	MGYSGT-GYSGT	201

26 Signals Intelligence/Ground Electronic Warfare			
01	Basic Signals Intelligence/Electronic Warfare Officer	(I)	
02	Signals Intelligence/Electronic Warfare Officer	(I,III)	3B
00	Basic Signals Intelligence/Ground Electronic Warfare Operator	GYSGT-PVT	950
21	Manual Morse Intercept Operator	GYSGT-PVT	231
29	Signals Intelligence Analyst	GYSGT-PVT	232
31	Non-Morse Intercept Operator/Analyst	GYSGT-SGT	231
32	Non-Communications Intercept Operator/Analyst	GYSGT-SGT	232
*43	Cryptologic Translator	GYSGT-SGT	232
*49	Cryptanalyst	GYSGT-SGT	232
51	Special Intelligence Communicator	MGYSGT-PVT	231
*69	Cryptologic Support Specialist	MSGT-PVT	232
#71	Cryptologic Linguist, Middle Eastern	GYSGT-PVT	232
#72	Cryptologic Linguist, Chinese	GYSGT-PVT	232
#73	Cryptologic Linguist, Korean	GYSGT-PVT	232
#74	Cryptologic Linguist, Spanish	GYSGT-PVT	232
#75	Cryptologic Linguist, Russian	GYSGT-PVT	232
91	Signals Intelligence/Electronic Warfare Chief	MGYSGT&MSGT	230
28 Data/Communications Maintenance			
01	Basic Data/Communications Maintenance Officer		
02	Electronics Maintenance Officer (Ground)	(II)	4C
05	Data/Communications Maintenance Officer	(III)	4C
10	Telephone Systems Officer	(III)	4C
*20	Calibration Officer		4C
30	Ground Radar Maintenance Officer	(III)	4C
00	Basic Data/Communications Maintenance Marine	GYSGT-PVT	950
11	Telephone Technician	MSGT-PVT	623
#3	Cable Systems Technician	MSGT-PVT	621
18	Teletype Technician	MSGT-PVT	160
#9	KG-13 Teletype Technician	MSGT-PVT	160
22	Electronic Switching Equipment Technician		
23	Technical Controller	MSGT-PVT	101
25	Fixed Ciphony Technician	MSGT-PVT	160
27	Mobile Data Terminal Technician	MSGT-CPL	160
28	KW-26 Terminal Technician	MSGT-PVT	160
29	Mobile Communication Central Technician	MSGT-CPL	160
31	Microwave Equipment Technician	MSGT-PVT	101
#3	Fleet Satellite Terminal Technician	MSGT-CPL	101
#4	Ground Mobile Forces SATCOM Technician	MSGT-CPL	101
41	Ground Radio Repairer	SGT-PVT	101
61	Radio Technician	MSGT-SGT	101
71	Test Measurement and Diagnostic Equipment Technician		
		SSGT-PVT	198
74	Metrology Technician	MGYSGT-SGT	198
75	Small Missile Systems Technician	SSGT-PVT	632
*77	Radiac Instrument Technician	GYSGT-SGT	198
81	Communication Security Equipment Technician	MSGT-PVT	198

#2	KG-30 COMSEC Technician	MSGT-PVT	198
84	Ground Radar Repairer	SSGT-PVT	104
85	FADAC Radar Repairer	SSGT-PVT	104
86	Artillery Electronics Repairer	SSGT-PVT	104
87	Weapons Location Equipment Repairer	SSGT-PVT	104
89	Ground Radar Technician	MGYSGT-SGT	104
91	Data/Communications Maintenance Chief	MGYSGT	160

30 Supply Administration and Operations

01	Basic Supply Administration and Operations Officer	(I)	
02	Ground Supply Officer	(I)	8B
10	Ground Supply Operations Officer	(II,III)	8B
*40	Contracting Officer		8D
50	Warehousing Officer	(II,III)	8B
60	Aviation Supply Officer	(I)	8B
70	Aviation Supply Operations Officer	(II,III)	8B
00	Basic Supply Administration and Operations Marine	GYSGT-PVT	950
43	Supply Administration and Operations Clerk	MGYSGT-PVT	551
44	Purchasing and Contracting Specialist	MGYSGT-SGT	551
51	Warehouse Clerk	MGYSGT-PVT	822
52	Packaging Specialist	MSGT-PVT	822
61	Subsistence Supply Clerk	MGYSGT-PVT	822
72	Aviation Supply Clerk	MGYSGT-PVT	551
73	Automated Information Systems Computer Operator	SSGT-PVT	531

31 Traffic Management

01	Basic Traffic Management Officer		
02	Traffic Management Officer	(II,III)	8C
00	Basic Traffic Management Marine	GYSGT-PVT	950
12	Traffic Management Specialist	MGYSGT-PVT	553

33 Food Service

01	Basic Food Service Officer		
02	Food Service Officer	(II,III)	8E
00	Basic Food Service Marine	GYSGT-PVT	950
11	Baker	SSGT-PVT	800
72	Cook Specialist	MGYSGT-CPL	800
81	Food Service Specialist	MGYSGT-PVT	800

34 Auditing, Finance, and Accounting

01	Basic Auditing, Finance, and Accounting Officer	(I)	
02	Disbursing Officer	(III)	7D
04	Financial Management Officer	(I)	7D
06	Financial Accounting Officer	(III)	7D
10	Auditing Officer	(II,III)	7D

00	Basic Auditing, Finance, and Accounting Marine	GYSGT-PVT	950
21	Personal Financial Records Clerk	SGT-PVT	542
31	Travel Clerk	SGT-PVT	541
32	Disburser/Disbursing Chief	MGYSGT-SSGT	542
41	Auditing Technician	MGYSGT-PVT	541
51	Accounting Technician	MGYSGT-PVT	541
35 Motor Transport			
01	Basic Motor Transport Officer	(I)	
02	Motor Transport Officer	(I)	8C
10	Motor Transport Maintenance Officer	(II,III)	4L
00	Basic Motor Transport Marine	GYSGT-PVT	950
13	Body Repair Mechanic	SGT-PVT	704
21	Organizational Automotive Mechanic	SGT-PVT	610
#2	Intermediate Automotive Mechanic	SGT-LCPL	610
#3	Vehicle Recovery Mechanic	SGT-LCPL	610
#4	Fuel and Electrical Systems Mechanic	SGT-LCPL	610
*25	Crash/Fire/Rescue Vehicle Mechanic	GYSGT-LCPL	610
29	Motor Transport Maintenance Chief	MGYSGT-SSGT	610
31	Motor Vehicle Operator	SGT-PVT	811
#3	Tractor Trailer Operator	SGT-LCPL	811
#4	Semitrailer Refueler Operator	SGT-LCPL	811
37	Motor Transport Operations Chief	MGYSGT-SSGT	811
*38	Licensing Examiner	GYSGT SGT	811
40 Data Systems			
01	Basic Data Systems Officer	(I)	
02	Data Systems Officer	(I)	7E
06	Data Systems Operations Officer	(II,III)	7E
10	Data Systems Software Officer	(II,III)	7E
00	Basic Data Systems Marine	GYSGT-PVT	950
*25	Network Control Specialist	SGT-PVT	531
34	Computer Operator	MGYSGT-PVT	531
*38	Data Control Coordinator	MGYSGT-CPL	532
41	Teleprocessing Specialist	MGYSGT-SGT	532
63	Programmer, COBOL	MGYSGT-PVT	532
*#5	Programmer, ALC	MGYSGT-CPL	532
*#6	Programmer, EUC	MGYSGT-PVT	532
69	Systems Programmer	MGYSGT-SGT	532
71	Data Base Management System (DBMS) Specialist	MGYSGT-SGT	532
41 Marine Corps Exchange			
01	Basic Marine Corps Exchange Officer		
30	Marine Corps Exchange Officer	(II, III)	8F
00	Basic Marine Corps Exchange Marine	GYSGT-PVT	950
31	Exchange Marine	MGYSGT-PVT	823
32	Club Manager/Treasurer	MGYSGT-SGT	800

43 Public Affairs			
01	Basic Public Affairs Officer	(I)	
02	Public Affairs Officer	(I, III)	7G
*30	Historical Officer		5D
00	Basic Public Affairs Marine	GYSGT-PVT	950
13	Broadcast Journalist	GYSGT-PVT	570
21	Print Journalist	SSGT-PVT	570
*#2	Photojournalist	SSGT-CPL	570
91	Public Affairs Chief	MGYSGT-GYSGT	570
44 Legal Services			
01	Student Judge Advocate	(I)	5F
02	Judge Advocate	(I)	5F
*20	Legal Services Officer		5F
30	Legal Administrative Officer	(II, III)	5F
00	Basic Legal Services Marine	GYSGT-PVT	950
21	Legal Services Specialist	MGYSGT-PVT	512
25	Legal Services Notereader/Transcriber (Stenotype)	SGT-PVT	512
29	Legal Services Reporter (Stenotype)	MGYSGT-SGT	512
46 Training and Audiovisual Support			
01	Basic Training and Audiovisual Support Officer		
02	Training and Audiovisual Support Officer	(II, III)	7F
00	Basic Training and Audiovisual Support Marine	GYSGT-PVT	950
11	Graphics Specialist	GYSGT-PVT	414
21	Training Equipment and Library Specialist	SGT-PVT	562
41	Combat Still Photographer	SGT-PVT	400
42	Combat Photographic Technician	GYSGT-CPL	400
53	Combat Audiovisual Equipment Technician	GYSGT-PVT	191
71	Combat Photographer/Motion Media	GYSGT-PVT	400
#2	Motion Media Editor/Scriptwriter	GYSGT-SGT	400
91	Training and Audiovisual Support Chief	MGYSGT&MSGT	400
55 Band			
01	Basic Band Officer		
02	Band Officer	(*I, II, III)	7N
05	Drum & Bugle Corps Officer	(III)	7N
	*US Marine Band Only		
00	Basic Musician	GYSGT-PVT	950
19	Enlisted Band Leader	MGYSGT-GYSGT	450
21	Band Drum Major	MGYSGT-GYSGT	450
23	Instrument Repair Specialist	MGYSGT-SSGT	450
26	Musician, Oboe/English Horn	MSGT-PVT	450
#8	Musician, Bassoon	MSGT-PVT	450
#34	Musician, Clarinet	MSGT-PVT	450
#6	Musician, Flute and Piccolo	MSGT-PVT	450
#7	Musician, Saxophone	MSGT-PVT	450

#41	Musician, Cornet/Trumpet	MSGT-PVT	450
#3	Musician, Baritone Horn/Euphonium	MSGT-PVT	450
#4	Musician, French Horn	MSGT-PVT	450
#6	Musician, Trombone	MSGT-PVT	450
#7	Musician, Tuba and String Bass/Electric Bass	MSGT-PVT	450
#63	Musician, Percussion (Drum, Timpani, and Mallets)	MSGT-PVT	450
#5	Musician, Piano or Accordion or Guitar	MSGT-PVT	450
*67	Arranger, Band	MSGT-PVT	450
71	Drum and Bugle Corps Drum Major	MGYSGT-GYSGT	450
#74	Bugler, Soprano or Mellophone	GYSGT-PVT	450
#6	Bugler, French Horn	GYSGT-PVT	450
#7	Bugler, Bass Baritone	GYSGT-PVT	450
*#9	Bugler, Contrabass	GYSGT-PVT	450
*92	Drum and Bugle Corps Arranger	MGYSGT-PVT	450
93	Drummer, Drum and Bugle Corps	GYSGT-PVT	450
57 Nuclear, Biological, and Chemical			
01	Basic Nuclear, Biological, and Chemical Officer		
02	Nuclear, Biological, and Chemical (NBC) Officer	(III)	2G
*15	Nuclear and Chemical Weapons Employment Officer		2G
*20	Ground Nuclear Weapons Assembly Officer		4E
00	Basic Nuclear, Biological, and Chemical Marine	GYSGT-PVT	950
11	Nuclear, Biological, and Chemical Defense Specialist	MGYSGT-PVT	494
58 Military Police and Corrections			
01	Basic Military Police and Corrections Officer	(I)	
03	Military Police Officer	(I)	7H
04	Corrections Officer	(II,III)	7H
05	Criminal Investigation Officer	(III)	7H
00	Basic Military Police and Corrections Marine	GYSGT-PVT	950
11	Military Police	MGYSGT-PVT	830
#2	Military Police Dog Handler	SGT-PVT	830
#3	Accident Investigator	GYSGT-CPL	830
*#4	Criminal Prevention/Physical Security Specialist	MGYSGT-SGT	830
21	Criminal Investigator	MGYSGT-SGT	832
*#2	Polygraph Examiner	MGYSGT-SGT	832
31	Correctional Specialist	MGYSGT-PVT	831
*#2	Correctional Counselor	MSGT-SGT	831
59 Electronics Maintenance			
01	Basic Electronics Maintenance Officer		
02	Electronics Maintenance Officer-Aviation	(II)	4C
07	Ground Launched Missile System Maintenance Officer	(III)	4F
10	Aviation Radar Maintenance Officer	(III)	4C
50	Air Traffic Control Systems Maintenance Officer	(III)	4D

70	Data Systems Maintenance Officer	(III)	4B
00	Basic Electronics Maintenance Marine	GYSGT-PVT	950
11	Microminiature Circuit Repair Specialist	MGYSGT-LCPL	121
21	Improved HAWK Fire Control Repairer	SSGT-PVT	104
22	Improved HAWK Information Coordination Central Repairer	SSGT-PVT	104
23	Improved HAWK Firing Section Repairer	SSGT-PVT	121
24	Improved HAWK Pulse Radar Technician	GYSGT-CPL	121
25	Improved HAWK Continuous Wave Radar Technician	GYSGT-CPL	121
26	Improved HAWK Automatic Fire Distribution and Engagement Simulator System Technician	GYSGT-CPL	121
27	Improved HAWK Fire Control Technician	GYSGT-CPL	121
28	Improved HAWK Missile System Maintenance Technician	MGYSGT-SSGT	121
29	Improved HAWK Mechanical System Repairer	GYSGT-PVT	104
37	Aviation Radio Repairer	SSGT-PVT	101
38	Aviation Meteorological Equipment Technician	GYSGT-PVT	101
39	Aviation Radio Technician	MGYSGT-SGT	101
#42	Aviation Radar Repairer (AN/TPS-59)	SSGT-PVT	104
43	Aviation Fire Control Repairer	SSGT-PVT	104
#44	Aviation Radar Repairer (AN/TPS-63)	SSGT-PVT	104
#5	Aviation Radar Repairer (AN/TPS-32)	SSGT-PVT	104
47	Aviation Fire Control Technician	MSGT-SGT	104
48	Aviation Radar Technician	MSGT-SGT	104
52	Air Traffic Control Navigational Aids Technician	GYSGT-PVT	103
53	Air Traffic Control Radar Technician	GYSGT-PVT	103
54	Air Traffic Control Communications Technician	GYSGT-PVT	103
59	Air Traffic Control Systems Maintenance Chief	MGYSGT&MSGT	103
#62	Tactical Air Command Central Repairer	SSGT-PVT	150
#3	Tactical Air Operations Central Repairer	SSGT-PVT	150
#4	Tactical Data Communications Central Repairer	SSGT-PVT	150
#74	Tactical Air Command Central Technician	MSGT-SGT	150
#8	Tactical Data Communications Central Technician	MSGT-SGT	150
#9	Tactical Air Operations Central Technician	MSGT-SGT	150
77	Tactical General Purpose Computer Technician	MSGT-SGT	150
82	Computer Systems Technician Honeywell DPS-6(AN/UYK-65(V)) System	MGYSGT-PVT	150
93	Electronics Maintenance Chief	MGYSGT	104
94	Tactical Data Systems Maintenance Chief	MGYSGT	150

60/61 Aircraft Maintenance

01	Basic Aircraft Maintenance Officer	(I)	
02	Aircraft Maintenance Officer	(I)	4D
04	Aircraft Maintenance Engineer Officer	(II, III)	4D

*05	Aeronautical Engineer		4D
07	Flight Equipment Officer	(III)	4D
00	Basic Aircraft Maintenance Marine	GYSGT-PVT	950
11	Aircraft Mechanic - Trainee	GYSGT-PVT	950
#12	Aircraft Mechanic, A-4/TA-4/OA-4	GYSGT-PVT	600
#3	Aircraft Mechanic, A-6, EA-6	GYSGT-PVT	600
#4	Aircraft Mechanic, F-4/RF-4	GYSGT-PVT	600
#5	Aircraft Mechanic, AV-8/TAV-8	GYSGT-PVT	600
#6	Aircraft Mechanic, KC-130	GYSGT-PVT	600
#7	Aircraft Mechanic, F/A-18	GYSGT-PVT	600
#8	Aircraft Mechanic, OV-10	GYSGT-PVT	600
19	Aircraft Maintenance Chief	MGYSGT&MSGT	600
#22	Aircraft Power Plants Mechanic, J-52	GYSGT-PVT	601
#3	Aircraft Power Plants Mechanic, T-76	GYSGT-PVT	601
#4	Aircraft Power Plants Mechanic, J-79	GYSGT-PVT	601
#5	Aircraft Power Plants Mechanic, Rolls Royce Pegasus	GYSGT-PVT	601
#6	Aircraft Power Plants Mechanic, T-56	GYSGT-PVT	601
#7	Aircraft Power Plants Mechanic, F-4/4	GYSGT-PVT	601
31	Aircraft Flight Engineer, KC-130- Trainee	GYSGT-CPL	950
32	Aircraft Flight Engineer, KC-130	GYSGT-SGT	050
*34	Spectrometric Oil Analysis Technician	MGYSGT-PVT	491
35	Aircraft Power Plants Test Cell Operator, Fixed Wing	MGYSGT-CPL	601
*37	AV-8A/C Maintenance Specialist	GYSGT-PVT	600
*38	AV-8B Maintenance Specialist	GYSGT-PVT	600
*43	Aircraft Welder	MGYSGT-PVT	701
44	Aircraft Non-Destructive Inspection Technician	MGYSGT-CPL	603
46	Aircraft Maintenance Administration Clerk	MGYSGT-PVT	555
47	Aircraft Maintenance Data Analysis Technician	MGYSGT-PVT	531
*#48	Aircraft Maintenance Computer Systems Analyst/Operator	GYSGT-PVT	531
51	Aircraft Hydraulic/Pneumatic Mechanic- Trainee	GYSGT-PVT	950
#52	Aircraft Hydraulic/Pneumatic Mechanic, A-4/TA-4/OA-4	GYSGT-PVT	600
#3	Aircraft Hydraulic/Pneumatic Mechanic, A-6/EA-6	GYSGT-PVT	600
#4	Aircraft Hydraulic/Pneumatic Mechanic, F-4/RF-4	GYSGT-PVT	600
#5	Aircraft Hydraulic/Pneumatic Mechanic, AV-8/TAV-8	GYSGT-PVT	600
#6	Aircraft Hydraulic/Pneumatic Mechanic, KC-130	GYSGT-PVT	600
#7	Aircraft Hydraulic/Pneumatic Mechanic, F/A-18	GYSGT-PVT	600
#8	Aircraft Hydraulic/Pneumatic Mechanic, OV-10	GYSGT-PVT	600

59	Aircraft Airframes Maintenance Chief	MGYSGT&MSGT	603
60	Flight Equipment Marine	GYSGT-PVT	860
71	Aircraft Maintenance Ground Support Equipment Mechanic-Trainee	GYSGT-PVT	950
72	Aircraft Maintenance GSE Mechanic	GYSGT-PVT	610
75	Cryogenics Equipment Operator	GYSGT-PVT	750
76	Aircraft Maintenance GSE Hydraulic/ Pneumatic/Structures Mechanic	GYSGT-PVT	602
77	Aircraft Maintenance GSE Electrician	GYSGT-PVT	602
78	Aircraft Maintenance Refrigeration Mechanic	GYSGT-PVT	720
79	Aircraft Maintenance GSE Chief	MGYSGT&MSGT	610
81	Aircraft Safety Equipment Mechanic - Trainee	GYSGT-PVT	950
#82	Aircraft Safety Equipment Mechanic, A-4/TA-4/OA-4	GYSGT-PVT	602
#3	Aircraft Safety Equipment Mechanic, A-6/EA-6	GYSGT-PVT	602
#4	Aircraft Safety Equipment Mechanic, F-4/RF-4	GYSGT-PVT	602
#5	Aircraft Safety Equipment Mechanic, AV-8/TAV-8	GYSGT-PVT	602
#6	Aircraft Safety Equipment Mechanic, KC-130	GYSGT-PVT	602
#7	Aircraft Safety Equipment Mechanic, F/A-18	GYSGT-PVT	602
#8	Aircraft Safety Equipment Mechanic, OV-10	GYSGT-PVT	602
90	Aircraft Safety Equipment Chief	MGYSGT&MSGT	602
91	Aircraft Structures Mechanic-Trainee	GYSGT-PVT	950
#92	Aircraft Structures Mechanic, A-4/TA-4/OA-4	GYSGT-PVT	603
#3	Aircraft Structures Mechanic, A-6/EA-6	GYSGT-PVT	603
#4	Aircraft Structures Mechanic, F-4/RF-4	GYSGT-PVT	603
#5	Aircraft Structures Mechanic, AV-8/TAV-8	GYSGT-PVT	603
#6	Aircraft Structures Mechanic, KC-130	GYSGT-PVT	603
#7	Aircraft Structures Mechanic, F/A-18	GYSGT-PVT	603
#8	Aircraft Structures Mechanic, OV-10	GYSGT-PVT	603
6111	Helicopter Mechanic - Trainee	GYSGT-PVT	950
#12	Helicopter Mechanic, CH-46	GYSGT-PVT	600
#3	Helicopter Mechanic, CH-53	GYSGT-PVT	600
#4	Helicopter Mechanic, U/AH-1	GYSGT-PVT	600
#5	Helicopter Mechanic, CH-53E	GYSGT-PVT	600
19	Helicopter Maintenance Chief	MGYSGT&MSGT	600
#22	Helicopter Power Plants Mechanic, T-58	GYSGT-PVT	601
#3	Helicopter Power Plants Mechanic, T-64	GYSGT-PVT	601
#5	Helicopter Power Plants Mechanic, T-400	GYSGT-PVT	601
32	Helicopter Dynamic Components Mechanic	GYSGT-PVT	602
35	Aircraft Power Plants Test Cell Operator, Rotary Wing	GYSGT-PVT	601
#42	Helicopter Structures Mechanic, CH-46	GYSGT-PVT	603
#3	Helicopter Structures Mechanic, CH-53	GYSGT-PVT	603
#4	Helicopter Structures Mechanic, U/AH-1	GYSGT-PVT	603

#52	Helicopter Hydraulic/Pneumatic Mechanic, CH-46	GYSGT-PVT	600
#3	Helicopter Hydraulic/Pneumatic Mechanic, CH-53	GYSGT-PVT	600
#4	Helicopter Hydraulic/Pneumatic Mechanic, U/AH-1	GTSgt-PVT	600
#5	Helicopter Hydraulic/Pneumatic Mechanic, CH-53E	GYSGT-PVT	600
59	Helicopter Airframes Maintenance Chief	MGYSGT&MSGT	603
*62	Presidential Support Specialist	MGYSGT-LCPL	600
*67	Helicopter Crew Chief	MGYSGT-PVT	050

63/64 Avionics

01	Basic Avionics Officer		
02	Avionics Officer	(II,III)	4B
00	Basic Avionics Marine	GYSGT-PVT	950
11	Aircraft Communications/Navigation Systems Technician - Trainee, OMA/IMA	GYSGT-PVT	950
#12	Aircraft Communications/Navigation Systems Technician, A-4/TA-4/QA-4	GYSGT-PVT	100
#3	Aircraft Communications/Navigation Systems Technician, A-6/TC-4C/EA-6A	GYSGT-PVT	100
#4	Aircraft Communications/Navigation Systems Technician RF-4/F-4	GYSGT-PVT	100
#5	Aircraft Communications/Navigation Systems Technician AV-8	GYSGT-PVT	100
#6	Aircraft Communications/Navigation Systems Technician, KC-130/OV-10	GYSGT-PVT	100
#7	Aircraft Communications/Navigation Systems Technician, F/A-18	GYSGT-PVT	100
#22	Aircraft Communications/Navigation Systems Technician, CH-46	GYSGT-PVT	100
#3	Aircraft Communications/Navigation Systems Technician, CH-53	GYSGT-PVT	100
#4	Aircraft Communications/Navigation Systems Technician, U/AH-1	GYSGT-PVT	100
31	Aircraft Electrical Systems Technician - Trainee	GYSGT-PVT	950
#32	Aircraft Electrical Systems Technician, A-4/TA-4/QA-4	GYSGT-PVT	602
#3	Aircraft Electrical Systems Technician, - A-6/EA-6/TC-4C	GYSGT-PVT	602
#4	Aircraft Electrical Systems Technician, - RF-4/F-4	GYSGT-PVT	602
#5	Aircraft Electrical Systems Technician, AV-8	GYSGT-PVT	602
#6	Aircraft Electrical Systems Technician, KC-130/OV-10	GYSGT-PVT	602
#7	Aircraft Electrical Systems Technician, F/A-18	GYSGT-PVT	602
#42	Aircraft Electrical Systems Technician, CH-46	GYSGT-PVT	602

#3	Aircraft Electrical Systems Technician, CH-53	GYSGT-PVT	602
#4	Aircraft Electrical Systems Technician, U/AH-1	GYSGT-PVT	602
#5	Aircraft Electrical Systems Technician, CH-53E	GYSGT-PVT	602
51	Advanced Avionics Technician - Trainee	GYSGT-PVT	950
52	Aircraft Weapons Systems Specialist, A-4/TA-4/EA-4	GYSGT-PVT	121
#3	Aircraft Weapons Systems Specialist, A6/TC-4C	GYSGT-PVT	121
#4	Aircraft Weapons Systems Specialist, F-4J/S	GYSGT-PVT	121
#5	Aircraft Weapons Systems Specialist, AV-8	GYSGT-PVT	121
#7	Aircraft Weapons Systems Specialist, F/A-18	GYSGT-PVT	121
#9	Aircraft Weapons Systems Specialist, EA-6A	GYSGT-PVT	121
#62	Aircraft Weapons Systems Specialist, F-4N	GYSGT-PVT	121
#3	Aircraft Radar Reconnaissance Systems Technician, RF-4	GYSGT-PVT	104
#4	Aircraft Weapons Specialist Helicopter/ A-6/OV-10/F/A-18	GYSGT-PVT	121
#5	Aircraft Communications/Navigation/ Radar Systems Technician, EA-6B	GYSGT-PVT	102
67	Aircraft Integrated Weapons System Technician, OMA	GYSGT-PVT	121
71	Aerial Camera Systems Technician, Trainee	GYSGT-PVT	950
72	Aerial Camera Systems Technician	GYSGT-PVT	602
74	Imagery Interpretation Equipment Repair Technician	GYSGT-PVT	602
*84	Aircraft Electronic Countermeasures Systems Technician	GYSGT-PVT	102
86	Aircraft Electronic Countermeasures Systems Technician, EA-6B	GYSGT-PVT	102
91	Avionics Maintenance Chief	MGYSGT&MSGT	100
#6412	Aircraft Communications Systems Technician, Fighter/Attack, IMA	GYSGT-PVT	100
#3	Aircraft Communications Systems Technician, Helicopter/KC-130/ OV-10, IMA	GYSGT-PVT	100
#14	Aircraft Navigation Systems Technician, IFF, IMA	GYSGT-PVT	102
#5	Aircraft Navigation Systems Technician, Radar, IMA	GYSGT-PVT	102
#6	Aircraft Navigation Systems Technician, TACAN, IMA	GYSGT-PVT	102
*22	Aircraft Cryptographic Systems Technician, IMA	GYSGT-PVT	100
*23	Aviation Electronic Micro-Miniature Repair Technician	GYSGT-PVT	121
#32	Aircraft Electrical/Instrument Systems Technician, Fighter/Attack, IMA	GYSGT-PVT	602
#3	Aircraft Electrical/Instrument Systems Technician, Helicopter/KC-130/OV-10, IMA	GYSGT-PVT	602

#4	Aircraft Flight Control and Air Data Computer Systems Technician, Fighter/ Attack, IMA	GYSGT-PVT	121
#5	Aircraft Flight Control and Air Data Computer Systems Technician, Helicopter/ KC-130/OV-10, IMA	GYSGT-PVT	121
42	Aircraft Analog Display System SACE Technician, A-6/EA-6, IMA	GYSGT-PVT	121
#3	Aircraft Ballistics Computer Technician, A-6E, IMA	GYSGT-PVT	121
#4	Aircraft Radar Systems Technician A-6E/SACE	GYSGT-PVT	121
#5	Aircraft Inertial Navigation Systems SACE Technician, A-6, IMA	GYSGT-PVT	121
#6	Semi-Automatic Checkout Equipment (SACE) MATC/EMTC Systems Technician, IMA	GYSGT-PVT	121
#52	Aircraft ALQ-99 Jammer Systems Technician, IMA	GYSGT-PVT	102
#3	Aircraft ALQ-99 Track and Surveillance Systems Technician, IMA	GYSGT-PVT	102
#4	Aircraft ALQ 99 Display/AYA-6 Systems Technician, IMA	GYSGT-PVT	102
#5	ECM Module Repair Technncian, IMA	GYSGT-PVT	102
62	Avionics Test Set (ATS) Technician, IMA	GYSGT-PVT	121
#3	Radar Test Station (RTS) Technician, IMA	GYSGT-PVT	104
#4	Carrier Aircraft Inertial Navigation System (CAINS) Technician, IMA	GYSGT-PVT	121
#5	Hybrid Test Set Technician, IMA	GYSGT-PVT	121
72	Aircraft Weapons Systems Technician, A-4/AV-8, IMA	GYSGT-PVT	121
#3	Aircraft Weapons Systems Technician, AERO-1A, IMA	GYSGT-PVT	121
#4	Aircraft Weapons Systems Technician, AWG-10, IMA	GYSGT-PVT	121
#5	Aircraft Radar/1R Reconnaissance Systems Technician, IMA	GYSGT-PVT	104
#6	Aerial Camera/ADAS Systems Technician, IMA	GYSGT-PVT	602
#7	Aircraft Forward Looking Infrared/TOW Technician, IMA	GYSGT-PVT	121
82	Aircraft Deceptive Electronic Countermeasures Systems Technician, IMA	GYSGT-PVT	102
*#84	Aircraft Passive Electronic Countermeasures Systems Technician, IMA	GYSGT-PVT	102
*#5	Aircraft Active Electronic Countermeasures Systems Technician, IMA	GYSGT-PVT	102
92	Aviation PME Technician	GYSGT-PVT	121
#3	Aviation PME and ATE Repair Technician	GYSGT-PVT	121

65 Aviation Ordnance

01	Basic Aviation Ordnance Officer		
02	Aviation Ordnance Officer	(II,III)	4E
*05	Marine Wing Weapons Unit Officer		4E
00	Basic Aviation Ordnance Marine	GYSGT-PVT	950
11	Aviation Ordnance Trainee	GYSGT-PVT	950
21	Aviation Ordnance Munitions Technician	GYSGT-PVT	946
#31	Aircraft Ordnance Technician, A-6E/EA-6	GYSGT-PVT	646
#2	Aircraft Ordnance Technician, A-4, TA-4, OA-4	GYSGT-PVT	646
#4	Aircraft Ordnance Technician, F-4, RF-4	GYSGT-PVT	646
#5	Aircraft Ordnance Technician, AV-8	GYSGT-PVT	646
#6	Aircraft Ordnance Technician, Rotary Wing/OV-10	GYSGT-PVT	646
#7	Aircraft Ordnance Technician, F/A-18	GYSGT-PVT	646
#41	Aviation Ordnance Equipment Repair Technician, Fixed Wing, IMA	GYSGT-PVT	646
#2	Aviation Ordnance Equipment Repair Technician, Rotary Wing, IMA	GYSGT-PVT	646
*61	Marine Wing Weapons Unit Specialist	GYSGT-PVT	646
91	Aviation Ordnance Chief	MGYSGT&MSGT	646

68 Weather Service

01	Basic Weather Service Officer		
02	Weather Service Officer	(II,III)	5B
00	Basic Weather Service Marine	GYSGT-PVT	950
21	Weather Observer	SGT-PVT	420
#2	Rawinsonde Operator	SGT-PVT	420
42	Weather Forecaster	MGYSGT-SGT	420

70 Airfield Services

01	Basic Airfield Services Officer		
02	Airfield Services Officer	(III)	2G
00	Basic Airfield Services Marine	GYSGT-PVT	950
11	Aircraft Recovery Specialist	MGYSGT-PVT	604
41	Aviation Operations Specialist	MGYSGT-PVT	556
51	Aircraft Firefighting and Rescue Specialist	MGYSGT-PVT	495

72 Air Control/air Support/antiair Warfare

01	Basic Air Control/Antiair Warfare Officer		
*03	Forward Area Air Defense Officer	(I)	
04	Antiair Warfare Officer	(I)	2E
*07	Forward Air Controller		2G
08	Air Support Control Officer	(I)	2G
10	Air Defense Control Officer	(I)	2G
*20	OA-4M FAC(A)/TAC(A)		2G
*77	Weapons and Tactics Instructor-Air Control		2G
00	Basic Air Control/Air Support/Antiair Warfare Marine	GYSGT-PVT	950

12	FAAD GUNNER	SSGT-PVT	121
22	HAWK Missile System Operator	MGYSGT-PVT	104
34	Air Command and Control Electronics Operator	MGYSGT-PVT	221
36	Tactical Air Defense Controller	MGYSGT-SGT	221
42	Air Support Operations Operator	MGYSGT-PVT	221
73 Air Traffic Control and Enlisted Flight Crews			
01	Basic Air Traffic Control Officer	(I)	
20	Air Traffic Control Officer	(I)	2G
30	Radar Approach Controller	(III)	2G
80	Aerial Navigation Officer	(III)	2D
00	Basic Air Traffic Controller/Enlisted Flight Crew Marine	GYSGT-PVT	950
11	Air Traffic Controller-Trainee	SSGT-PVT	950
12	Air Traffic Controller-Tower	MGYSGT-PVT	222
22	Air Traffic Controller-Radar	MGYSGT-PVT	222
*24	Air Traffic Controller	MGYSGT-SGT	222
71	Aerial Navigator-Trainee	GYSGT-PVT	950
72	First Navigator	MGYSGT-PVT	051
81	Airborne Radio Operator/Loadmaster- Trainee	SSGT-PVT	950
82	Airborne Radio Operator/Loadmaster	MGYSGT-PVT	201
75 Pilots/Naval Flight Officers			
00	Pilot VMA	(I)	2A
01	Pilot VMA A-4	(I)	2A
08	Pilot VMA AV-8A/C	(I)	2A
09	Pilot VMA AV-8B	(I)	2A
10	Pilot VMA (AW)	(I)	2A
11	Pilot VMA (AW)A-6	(I)	2A
20	Pilot VMFA (F-4)	(I)	2A
21	Pilot VMFA (F/A-18)	(I)	2A
22	Pilot VMFA F-4S	(I)	2A
23	Pilot VMFA F/A-18	(I)	2A
40	Pilot VMAQ/VMFP	(I)	2A
42	Pilot VMAQ/EA-6A	(I)	2A
43	Pilot VMAQ/EA-6B	(I)	2A
45	Pilot VMFP/RF-4B	(I)	2A
50	Pilot VMGR	(I)	2B
*51	Pilot C-9	(I)	2B
*52	Pilot TC-4C	(I)	2B
*55	Pilot UC-12B	(I)	2B
56	KC-130 Co-Pilot (T2P/T3P)	(I)	2B
57	KC-130 Aircraft Commander	(I)	2B
*59	Pilot CT-39	(I)	2B
60	Pilot HMH/M/L/A	(I)	2C
62	Pilot HMM CH-46	(I)	2C
63	Pilot HML UH-1	(I)	2C
64	Pilot HMH CH-53	(I)	2C
65	Pilot HMA AH-1	(I)	2C
66	Pilot HMH CH-53E	(I)	2C
75	Pilot VMO	(I)	2B

76	Pilot VMO/OV-10	(I)	2B
*77	Weapons and Tactics Instructor	(I)	2A
80	Flight Officer Student	(I)	9B
81	Basic Naval Flight Officer	(I)	2D
83	Bombardier/Navigator, A-6	(I)	2D
84	Electronics Warfare Officer, EA-6A	(I)	2D
85	Airborne Reconnaissance Officer, RF-4B	(I)	2D
86	Electronics Warfare/Airborne Reconnaissance Officer, EA-6A/RF-4B	(I)	2D
87	Radar Intercept Officer, F4S	(I)	2D
88	Electronics Warfare Officer, EA-6B	(I)	2D
*90	Landing Signal Officer Trainee		9B
91	Naval Flight Officer VMAW		2D
*92	Pilot VMAW		2A
*93	Landing Signal Officer, Phase I & II		2G
*94	Landing Signal Officer, Phase III		2G
*95	Test Pilot/Flight Test Project Officer		2B
*96	Aviation Safety Officer		4J
97	Basic Rotary Wing Pilot	(I)	2C
98	Basic Fixed Wing Pilot	(I)	2B
99	Flight Student	(I)	9B
*8000 - 9599 CATEGORY "B" MOS'S			
8033	Quality Assurance Technician (Subsistence)	MSGT-PFC	321
**8151	Guard	GYSGT-PVT	070
8231	Education Assistant	GYSGT-PVT	570
8411	Recruiter	SGTMAJ/MGYSGT-CPL	501
8412	Career Recruiter	MGYSGT-SSGT	501
8421	Career Planner	MGYSGT-SGT	501
8431	Psychological Operations NCO	GYSGT-CPL	243
8441	Civil Affairs NCO	GYSGT-CPL	243
8511	Drill Instructor	SGTMAJ/MGYSGT-SGT	012
8531	Marksmanship Instructor	GYSGT-PVT	012
8538	Substance Abuse Counselor	MGYSGT/SGT	501
8541	Scout-Sniper	GYSGT-PVT	010
8563	Water Safety/Survival Instructor	MGYSGT-PVT	012
8611	Interpreter (Designated Language)	GYSGT-PVT	241
8621	Surveillance Sensor Operator	MSGT-PVT	233
8631	Surveillance Sensor Maintenance Man	SSGT-PVT	102
8152	Reconnaissance Man, Parachute Jump Qualified	SGTMAJ/MGYSGT-PVT	010
8653	Reconnaissance Man, SCUBA Qualified	SGTMAJ/MGYSGT-PVT	010
8654	Reconnaissance Man, Parachute and SCUBA Qualified	SGTMAJ/MGYSGT-PVT	010
8711	Infantry Operations Specialist	MGYSGT-CPL	250
8811	Firefighter	GYSGT-PVT	495
**8911	Barracks and Grounds Marine	GYSGT-PVT	495
**8915	Food Service Attendant	LCPL-PVT	801
8921	Athletic and Recreation Assistant	MGYSGT-PVT	562
8981	Military Affiliate Radio System Radio Operator	MGYSGT-PVT	201
9051	Graves Registration Specialist	GYSGT-CPL	492

*9600 - 9699 SPECIAL EDUCATION PROGRAM		
9602	Education Officer	5K
9620	Aeronautical Engineer (SEP)	4D
9622	Chemical Engineer	5K
9624	Electronics Engineer	4B
9626	Ordnance Systems Engineer	4E
9628	Computer Engineer	4N
9630	Industrial Engineer	4N
9632	Nuclear Engineer	5A
9634	Electronic Warfare Systems Officer	4B
9636	Communications Engineer	4C
9640	Management Officer	7C
9644	Financial Management Specialist	7D
9646	Data Systems Specialist	7E
9648	Management, Data Systems Officer	7E
9650	Operations Analyst	5J
9652	Defense Systems Analyst	5J
9656	Systems Acquisition Management (SAM) Officer	4E
9658	Command, Control, and Communications (C3) Systems Officer	4C
9660	Communication Manager	4C
9662	Material Management Officer	7E
9666	Space Operations Officer	
9670	Statistics Officer	5J
9674	Public Affairs Management Officer	7G
9676	International Relations Officer	5D
9678	Historian	5D
9680	Human Resources Management Specialist	5M
9688	Master of Law	5F
9800 - 9999 Identifying MOS's and Reporting MOS's		
9811	Member United States Marine Band	MGYSGT-SSGT 450
9900	Basic Marine, General Service	MGYSGT-PVT 950
9901	Basic Officer	(I)
9903	General Officer	(I) 1A
9904	Colonel, Logistician	(I) 1B
*9905	Special Assignment Officer	9E
9906	Colonel, Ground	(I) 1B
9907	Colonel, Naval Aviator/Naval Flight Officer	(I) 1B
9908	Colonel, Supply	(I) 1B
**9910	Billet Designator - Unrestricted Officer	9E
**9911	Billet Designator - Unrestricted Ground Officer	9E
**9912	Billet Designator - Naval Aviator/Naval Flight Officer	9E
*9913	Special Services Officer	7N
9914	Colonel, Judge Advocate	(I) 1B
9915	Special Assignment - Enlisted	MGYSGT-PVT 920
**9916	Billet Designator - Enlisted	MGYSGT-PVT 920
*9917	College Degree - Enlisted	MGYSGT-PVT 920
9925	Range Officer	(III) 7B
**9930	Billet Designator - Air Control/Antiair Warfare Officer	2G

*9935	Special Technical Operations (Officer, Enlisted)	MGYSGT-PVT	1B/510
*9940	Foreign Area Officer		3A
*9947	Psychological Operations Officer		3A
9950	Combat Artist (Officer)		7F
9952	SCUBA Marine (Officer/Enlisted)	SGTMAJ/ MGYSGT-PVT	2E/010
9953	Parachutist/SCUBA Marine (Officer/ Enlisted)	SGTMAJ/ MGYSGT-PVT	2E/010
9956	Ground Safety Specialist (Officer/ Enlisted)	GYSGT-PVT	4J/ 493
*9958	Acquisition Management Officer		4E
9960	Naval Aviation Observer		2G
9962	Parachutist (Officer/Enlisted)	SGTMAJ/ MGYSGT-PVT	2E/ 010
9971	Basic Marine with Enlistment Guarantee	MGYSGT-PVT	950
*9980	Surveillance Sensor Officer		3B
*9981	Tactical Data Systems Specialist (Officer/Enlisted)		7E/ 532
*9982	Small Computer Systems Operator/ Programmer	MGYSGT-PVT	
9991	Sergeant Major of the Marine Corps	SGTMAJ	521
9999	Sergeant Major/First Sergeant	SGTMAJ&1STSGT	521

SUMMARY: OFFICER CATEGORIES

- (I) MOS's suitable for assignment as primary for regular unrestricted officers/career reserve officers.
- (II) MOS's suitable for assignment as primary for limited duty officers.
- (III) MOS's suitable for assignment as primary for warrant officers.

TOTAL MOS's

Officers (183 Primary and Additional, 27 SEP, 26 ID Reporting	236
Enlisted (473 Primary and Additional, 26 Cat "B", 15	
ID-Reporting	514
Category "B" MOS's	26
Special Education Program (SEP) MOS's	27
ID-Reporting MOS's	35
Primary Occupational Fields (Officer)	37
Primary Occupational Fields (Enlisted).	36
Secondary Fields (Cat "B", SEP, ID-Reporting)	3

NOTES:

Identifies Skill Designator within preceding MOS beyond the specialty level and/or may refer to the end items or skill areas.

* MOS's to be assigned as Additional only.

**To be used only as billet designator in T/Os.

Changes to the Marine Corps MOS System may be proposed in accordance with MCO P1200.7F (MOS Manual).

Women Marines may be assigned into all occupational fields except OCCFLD 03, 08, 18 and 75 and in any MOS's except those listed in MCO 1300.8.

APPENDIX 4

Grouped Navy Enlisted Occupational Categories and General Duties, Naval Health Research Center, 1987

<u>Grouped Navy Occupational Category</u>		<u>Occupations and General Duties</u>
Logistics	Includes:	Storekeeper, Disbursing Clerk, Ship's Serviceman
	General Duties:	Supply management, maintain and inventory supplies and equipment, payroll, retail, and personal service facilities.
Ship Operations	Includes:	Boatswain's Mate, Signalman, Quartermaster
	General Duties:	Seamanship and navigation; maintain and operate visual signal equipment, cargo handling equipment, small boats.
Aviation Maintenance	Includes:	Aviation Machinist's Mate, Aviation Electronic Technician, Aviation Structural Mechanic, Aviation Ordnanceman
	General Duties:	Maintain and repair aircraft engines, electrical equipment, and structural parts of aircraft; load and unload aircraft armaments.
Ship Maintenance	Includes:	Precision Instrumentman, Opticalman, Electrician's Mate, Hull Maintenance Technician
	General Duties:	Maintain and repair small machines and optical equipment; work metal and manufacture machinery parts.
Administration	Includes:	Yeoman, Personnelman
	General Duties:	Secretarial and office work.
Healthcare	Includes:	Hospital Corpsman, Dental Technician
	General Duties:	Provide routine and emergency medical care.
Marine Engineer	Includes:	Machinist's Mate, Engineman, Machinery Repairman, Boiler Technician
	General Duties:	Operate and maintain heavy machinery, propulsion equipment, and electrical components of engines, operate marine boilers.

Seaman	Includes:	Seaman Recruit, Seaman Apprentice, Seaman (this is an unskilled job category for men training for deck, Ordnance, administration, or Ship Operations Specialties)
	General Duties:	Miscellaneous tasks usually physically oriented and labor intensive e.g., clean and maintain ship, wash kitchenware, etc.
Airman	Includes:	Airman Recruit, Airman Apprentice, Airman (this is an unskilled job category for men training for aviation specialties)
	General Duties:	Miscellaneous tasks e.g., maintain and clean aircraft, hangars, and equipment.
Engineerman	Includes:	Engineer Recruit, Engineer Apprentice, Engineerman (this is an unskilled job category for men training for engineering or hull maintenance specialties)
	General Duties:	Miscellaneous tasks e.g., maintain and clean engine rooms, equipment, etc.
Other	Includes:	Communication and Intelligence, Mess Management, Ordnance Systems, Media, Weapons Control
	General Duties:	Varied.

APPENDIX 5

NAVAL MILITARY PERSONNEL COMMAND, DEPARTMENT OF THE NAVY, WASHINGTON, D. C. 20370

REPORT OF CASUALTY

1 REPORT NUMBER AND TYPE

2 DATE PREPARED

3 SERVICE IDENTIFICATION (Name, Social Security Number, Grade or Rate, Component, Branch and Organization), (MOS/NJC)

4 CASUALTY STATUS

a. ☐ BATTLE

☐ NON-BATTLE

b. COMMENCED TOUR DATE

c. STATUS

☐ DEATH

☐ KIA

☐ MISSING

☐ MISSING IN ACTION

☐ CAPTURED

☐ OTHER

(Specify)

d. DATE

e. PLACE

f. CAUSE & CIRCUMSTANCES

5 a. DATE AND PLACE OF BIRTH

b. RACE

c. SEX

d. RELIGIOUS PREFERENCE

6 DATE AND PLACE OF LAST ENTRY ON ACTIVE DUTY IN CURRENT STATUS AND HOME OF RECORD AT TIME

7 a. PAY GRADE

b. BASIC PAY

c. INCENTIVE ADDITIONAL PAY

☐ YES

☐ NO

d. CHECK IF APPLICABLE

☐ CREW

☐ PASSENGER

8 DUTY STATUS

9 INTERESTED PERSONS (Name, Address, Relationship)

DATE OF RECORD OF EMERGENCY DATA FORM

10 REPORT FOR VA TO FOLLOW

☐ YES ☐ NO

11 REPORTING COMMAND AGENCY AND DATE REPORT RECEIVED IN DEPARTMENT

12 PRIOR SERVICE DATA

☐ YES

☐ NO

13 REMARKS

-- SAMPLE --

FOOTNOTES

1. Adult next of kin.
2. Beneficiary for gratuity pay in event there is no surviving wife or child as designated on record of emergency data.
3. Beneficiary for unpaid pay and allowances as designated on record of emergency data.

14 DISTRIBUTION

15 SIGNATURE ELEMENT

Certified to be a true Certification of Casualty.

Head, Casualty Assistance Branch

By direction of the Commander, Naval Military Personnel Command

DD FORM 1300
1 FEB 73

REPLACES DD FORM 1300, 1 MAR 60 WHICH IS OBSOLETE

Report of Casualty Coding Instructions and Variable Definitions

The Report of Casualty (DD Form 1300) reports inactive and active duty deaths. For the purposes of this study, we will only be coding active duty deaths for the Navy enlisted personnel and officers.

To facilitate data input:

1. all coding is done in dark pencil
2. all zeros are lined (0).

Variable Definitions

1. **RPTDATE** In boxes one and two at the top of the report is the date the report was prepared. Frequently, more than one report is prepared due to updates on the member's file. If there is more than one report, always code the one with the latest date.
EX: Final 83 Dec 27 has a Sup Rpt 84 Sep 27; code
the Sup Rpt = code 84271 (the latest update)
2. **SSN** The Social Security Number is coded directly from the DD 1300, box 1.
3. **RATE** Rate refers to the job rate or occupational classification of enlisted member; box 1. On coding sheet A, the alphabetic abbreviation of the rates is listed first and then the numeric code and a brief description of each rate. Record the four digit numeric rate code from coding sheet A.
EX: SH = code 2490
4. **PG** Paygrade, box 1, is for all enlisted and officer members. For enlisted members it is attached to their rate, i.e. SH2 is a Ship's Serviceman, second class, or an E 05 which indicates Enlisted, grade 05 or second class.
EX: SH2 = code 05

All officer's paygrades follow the abbreviation of their rank.

EX: LTJG 002 = code 15
LTJG = Lieutenant Junior Grade
0 = Officer
02 = second paygrade rank

LIST OF ALL OFFICER PAYGRADES BY RANK

W01	=	Warrant Officer	=	rank W1	=	code 10
W02	=	Warrant Officer	"	W2	"	11
W03	=	Warrant Officer	"	W3	"	12
W04	=	Warrant Officer	"	W4	"	13
ENS	=	Ensign	"	001	"	14
LTJG	=	Lieuten. Junior Grade	"	002	"	15
LT	=	Lieutenant	"	003	"	16
LCDR	=	Lieutenant Commander	"	004	"	17
CDR	=	Commander	"	005	"	18

CAPT = Captain	"	006	"	19
ADM = Admiral	"	007	"	20

5. REGRES Regular or Reserve Navy. the code is attached to the USN that follows the paygrade; box 1. USN stands for United States Navy.
EX: 1) USN = code 1; 2) USNR = code 2
6. DESIG The DESIGNator is the job code for Navy officers; box 1. It cannot be coded in the RATE variable because the four digits might overlap and confuse the analyses of the data. It follows the rank, paygrade, component branch, and officer code (0).
EX: LTJG 002 USNR 0 1325 = code 1325
7. CASSTAT This is the Casualty Status variable. It is found in box 4a.
EX: Battle = code 1 or Non-battle = code 2
8. GEOPLCE The geographic place of incidence, in box 4e, is coded from coding sheet C. Coding sheet C is in alphabetic order by BUMED code, country abbreviation. The United States, states codes, are on the last page of coding sheet C, p 25. Derived codes for "Death At Sea" are on this page, too. Code the three digit numeric code labeled NHRC Code.
EX: Tucumcari NM = New Mexico = code 035
9. CASCODE The casualty code in box 4, upper right, is attached to a designation of where the incident occurred.
EX: 1) U.S. 892 = code 892 or
2) Asiatic 890 = code 890 or
3) Pacific 602 = code 602
10. DETHYR This is the date of death in box 4d. If this date
11. DETHJUL is the date FOUND, code only the DETHYR and leave
12. WEEKDAY DETHJUL and WEEKDAY blank.
EX: 1986 Jan 8 = DETHYR = code 86
DETHJUL = code 008
WEEKDAY = code 5

YOU MUST USE THE APPROPRIATE JULIAN CALENDAR BY YEAR TO CODE

WEEKDAY!

13. CAUSCIRC Cause and circumstances of the death are found in box 4, line f. Coding sheet D, pgs 26 - 30, is an attempt to anticipate the major causes and circumstances of death but, may be incomplete. All new codes must be approved by Pat Coben or Dr. Helmkamp and must be documented on coding sheet D under the appropriate category. When a medical cause is given for death, use Appendix I and look up the description given on the DD 1300, under Category Description, and code the Group number for that category.
EX: Cardiac Incident = Circulatory System = Group 7 = code 907
14. VEHICLE VEHICLE is an extension of the cause and circumstance variable from box 4, line f.
EX: Private Plane Crash = code 1

15. HOSPYR This is the date the individual was hospitalized
 16. HOSPJUL and is an extension of the cause and circumstance variable, box 4, line f. If the person was not hospitalized, leave the coding blank.
 EX: (hospitalized 3 Mar 86) = HOSPYR = code 86
 HOSPJUL = code 062
17. BRTHYR The date of birth is in box 5a.
 18. BRTHJUL EX: 1938 Mar 19 = BRTHYR = code 38
 (use leap year Julian) = BRTHJUL = code 079
19. AGE AGE is derived by subtracting the birth year from the death year and checking the months.
 EX: death year is 1986 (January 8)
 birth year is 1938 (March 19) = code 47
20. RACE RACE comes from box 5b.
 EX: Cauc = code 1
21. SEX SEX comes from box 5c.
 EX: Male = code 1
22. CREWPASS The Crew/Passenger variable comes from box 7d. If this box is empty, leave the code blank.
 EX: CREW = code 1
23. DJSTA The duty station variable comes from box 8. It is usually an acronym for the name of the activity where the member was stationed except in the case of ships where the actual name, class, and hull number are reported. The UIC book is the source code for duty station. The UIC book is broken into several categories: numeric listings, alphabetic listings, ship listings, etc.
 EX: 1) FITRON TWO ONE THREE = Fighter Squadron 213 -
 code 35952
 2) USS ENTERPRISE (CVN-65) = code 09934
24. SHIPSHOR This variable is derived from the duty station information in box 8. If the duty station is a ship, code = 2 for ship duty. If the duty station is anything other than the name of a ship, code = 1 for shore duty.
 EX: 1) USS ENTERPRISE (CVN-65) = code 2
 EX: 2) TRARON TEN = CODE 1
 (TRARON TEN = Training Squadron 10)
25. DUTYSTAT This is derived from box 8 also. Most members will have ACTIVE DUTY in this box but may have additional information:
 IN TRANSIT ..., ENROUTE ..., TEMPDU ..., etc.
 EX: ENROUTE FROM NORFOLK VIRGINIA TO USS RAMSEY (FFG-2) = code 1

APPENDIX 6

Current NHRC Disease Codes

<u>NHRC cat</u>	<u>Sub-cat range</u>	<u>Category Description</u>
<u>Group 1 - Infective and Parasitic Diseases</u>		
001	01-04	Cholera
002	01	Typhoid Fever
003	01-05	Paratyphoid Fever
004	01-12	Other Salmonella Infections
005	01-09	Bacillary Dysentery
006	01-10	Food Poisoning (Bacterial)
007	01-09	Amebiasis
008	01-08	Other Protozoal Intestinal Diseases
009	01-11	Enteritis due to Specified Organism
010	01-10	Diarrheal Disease
011	01-12	Silicotuberculosis
012	01-70	Tuberculosis Pulmonary
013	01-70	Tuberculosis Other Respiratory
014	01-31	Tuberculosis Meninges Central Nervous System
015	08	Tuberculosis of Intestines, Peritoneum, and Mesenteric Glands
016	01-48	Tuberculosis of Bones and Joints
017	01-47	Tuberculosis of Genitourinary System
018	01-75	Tuberculosis of Other Organs
019	01-24	Tuberculosis Disseminated
020	01-09	Tuberculosis Late Effects of
021	01	Tuberculosis of Unspecified Site
022	01-09	Plague
023	01	Typhemia
024	07	Anthrax
025	01-07	Brucellosis
026	01	Glanders
027	01	Melioidosis
028	01-04	Rat Bite Fever
029	01-07	Other Zoonotic Bacterial Diseases
030	01-08	Legionary
031	01-05	Other Diseases due to Mycobacteria
032	01-14	Diphtheria
033	01-07	Whooping Cough
034	01-07	Streptococcal Sore Throat and Scarlet Fever
035	01-07	Erysipelas
036	01-07	Metastaphylococcal Infection
037	01-07	Tetanus
038	01-07	Botulism
039	01-07	Other Bacterial Diseases
040	01-07	Mycobacteriosis
041	01-07	Acute Meningitis due to Enterobacter
042	01-07	Other Bacterial Diseases of Central Nervous System

Group 1 - Infective and Parasitic Diseases (Cont'd)

043	01-05	Smallpox
044	01-04	Cowpox
045	01-05	Chickenpox
046	01-20	Herpes Zoster
047	01-25	Herpes Simplex
048	01-11	Measles
049	01-10	Rubella
050	01-06	Other Viral Exanthemata
051	01-04	Yellow Fever
052	01	Dengue
053	01-10	Encephalitis Mosquito-Borne Viral
054	01-06	Encephalitis Tick-Borne Viral
055	01	Encephalitis Viral Transmitted by Other and Unspecified Arthropods
056	01-04	Encephalitis Acute Epidemic
057	01-07	Encephalitis Viral
058	01-10	Arthropod-Borne Hemorrhagic Fever
059	01	Arthropod-Borne Hemorrhagic Fever/Epidemic Hemorrhagic Fever
060	01-08	Other Arthropod-Borne Viral Diseases
061	01-09	Viral Hepatitis
062	01	Rabies
063	01-13	Mumps
064	01	Psittacosis
065	01-10	Specific Diseases due to Coxsackie Virus
066	01-04	Infectious Mononucleosis
067	01-05	Trachoma
068	01-09	Other Viral Diseases of Conjunctiva
069	01-22	Other Viral Diseases
070	01-03	Louse-Borne Typhus
071	01-11	Other Typhus
072	01-07	Tick-Borne Rickettsioses
073	01-06	Other Rickettsioses
074	01-10	Malaria
075	01-08	Leishmaniasis
076	01-04	American Trypanosomiasis
077	01-06	Other Trypanosomiasis
078	01-03	Relapsing Fever
079	01-04	Other Arthropod-Borne Diseases
080	01-12	Syphilis Congenital
081	01-25	Syphilis Early, Symptomatic
082	01-03	Syphilis Early, Latent
083	01-12	Syphilis Cardiovascular
084	01-15	Syphilis of Central Nervous System
085	01-03	Syphilis Other and Unspecified
086	01 03	Syphilis
087	01 54	Gonococcal Infections
088	01 07	Other Venereal Diseases
089	01 06	Leptospirosis
090	01 04	Vincent's Angina

Group 1 - Infective and Parasitic Diseases (Cont'd)

091	01-12	Yaws
092	01-05	Pinta
093	01-04	Other Spirochetal Infection
094	01-14	Dermatophytosis
095	01-07	Dermatomycosis, Other and Unspecified
096	01-14	Moniliasis
097	01-07	Actinomycosis
098	01-05	Coccidioidomycosis
099	01-25	Histoplasmosis
100	01-06	Blastomycosis
101	01-14	Other Mycoses
102	01-07	Schistosomiasis
103	01-11	Other Trematode Infections
104	01-15	Hydatidosis
105	01-11	Other Cestode Infections
106	01	Trichiniasis
107	01-10	Filarial Infection
108	01-09	Ancylostomiasis
109	01-12	Other Intestinal Helminthiasis
110	01-07	Other and Unspecified Helminthiasis
111	01	Intestinal Parasitism, Unspecified
112	01-07	Toxoplasmosis
113	01-08	Trichomoniasis, Urogenital
114	01-06	Pediculosis
115	01-03	Acariasis
116	01-07	Other Infestation
117	01-03	Other Arthropod Infestation
118	01	Sarcoidosis
119	01-14	Other and Unspecified Infectious, and Parasitic Diseases

Group 2 - Neoplasms

120	01-12	Neoplasm Malignant Lip
121	01-12	Neoplasm Malignant Tongue
122	01-07	Neoplasm Malignant Salivary Gland
123	01-04	Neoplasm Malignant Gum
124	01-05	Neoplasm Malignant Mouth Floor
125	01-16	Neoplasm Malignant Mouth Other and Unspecified Parts
126	10-15	Neoplasm Malignant Oropharynx
127	01-07	Neoplasm Malignant Nasopharynx
128	01-08	Neoplasm Malignant Hypopharynx
129	01-02	Neoplasm Malignant Pharynx Unspecified
130	01-09	Neoplasm Malignant Esophagus
131	01-11	Neoplasm Malignant Stomach
132	01-09	Neoplasm Malignant Small Intestine, Including Duodenum
133	01-15	Neoplasm Malignant Colon
134	01-05	Neoplasm Malignant Rectum, Rectosigmoid Junction, and Anus
135	01-02	Neoplasm Malignant Liver and Intrahepatic Bile Ducts
136	01-07	Neoplasm Malignant Gallbladder and Extrahepatic Bile Ducts

Group 2 - Neoplasms (Cont'd)

137	01	Neoplasm Malignant Liver, Unspecified
138	01-09	Neoplasm Malignant Pancreas
139	01-05	Neoplasm Malignant Peritoneum and Retroperitoneum
140	01-03	Neoplasm Malignant Digestive Organs
141	01-14	Neoplasm Malignant Nasal Cav, Mid Ear, and Access Sinuses
142	01-08	Neoplasm Malignant Larynx
143	01-13	Neoplasm Malignant Trachea Bronchus, and Lung
144	01-14	Neoplasm Malignant Respiratory Organs Other Unspecified
145	01	Neoplasm Malignant Lung Unspecified Primary or Secondary
146	01	Neoplasm Malignant Thoracic Respiratory Organs Secondary
147	01-11	Neoplasm Malignant Bone
148	01-13	Neoplasm Malignant Tissue Connective and Other Soft
149	01-14	Melanoma Malignant Skin
150	01-15	Neoplasm Malignant Skin Other
151	01-11	Neoplasm Malignant Breast
152	01-05	Neoplasm Malignant Cervix Uteri
153	01	Neoplasm Malignant Chorionepithelioma
154	01-08	Neoplasm Malignant Uterus, Other
155	01-10	Neoplasm Malignant Ovary, Fallop Tube, and Broad Ligament
156	01-10	Neoplasm Malignant Fem Genital Org Other and Unspecified
157	01	Neoplasm Malignant Prostate
158	01-03	Neoplasm Malignant Testis
159	01-12	Neoplasm Malignant Male Genita Org Other and Unspecified
160	01-10	Neoplasm Malignant Bladder
161	01-12	Neoplasm Malignant Urinary Org Other and Unspecified
162	01-11	Neoplasm Malignant Eye
163	01-11	Neoplasm Malignant Brain
164	01	Neoplasm Malignant Brain & Cranial Nerves exc Optic Nerve
165	01-11	Neoplasm Malignant Nervous System, Other
166	01	Neoplasm Malignant Thyroid Gland
167	01-13	Neoplasm Malignant Endocrine Glands, Other
168	01-10	Neoplasm Malignant Sites, Ill-Defined
169	01-09	Neoplasm Malignant Lymph Nodes Secondary and Unspecified
170	01-10	Neoplasm Malignant Secondary Respir and Digestive
171	01-15	Neoplasm Malignant Other Secondary
172	01-05	Neoplasm Malignant without Specification of Site
173	01-19	Lymphosarcoma Reticulum Cell Sarcoma
174	01-73	Hodgkin's Disease
175	01-10	Lymphoid Tissue, Other
176	01-58	Neoplasms Lymphoid Tissue, Other
177	01-05	Myeloma Multiple
178	01-05	Leukemia Lymphatic
179	01-05	Leukemia Myeloid
180	01-15	Leukemia Monocytic
181	01-08	Leukemia Other and Unspecified
182	01-03	Leukemia
183	01-02	Myelofibrosis
184	01-11	Neoplasm Benign Buccal Cavity Pharynx
185	01-16	Neoplasm Benign Digestive Sys, Other
186	01-09	Neoplasm Benign Respiratory Sys
187	01-15	Neoplasm Benign Bone and Cartilage
188	01-05	Lipoma

Group 2 - Neoplasms (Cont'd)

189	01-11	Neoplasm Benign Connective and Other Soft Tissue
190	01-17	Neoplasm Benign Skin
191	01	Neoplasm Benign Breast
192	01	Uterine Leiomyoma
193	01-09	Neoplasm Benign Uterus, Other
194	01-06	Neoplasm Benign Ovary
195	01-09	Neoplasm Benign Genital Organs Other Female
196	01-06	Neoplasm Benign Genital Organs Male
197	01-09	Neoplasm Benign Kidney and Other Urinary Organs
198	01-12	Neoplasm Benign Eye
199	01-11	Neoplasm Benign Brain and Other Pts of Nervous System
200	01-13	Neoplasm Benign Endocrine Glands
201	01-08	Hemangioma Lymphangioma
202	01-06	Neoplasm Benign Other and Unspecified Sites
203	01-23	Neoplasm Unspecified Digestive System
204	01-18	Neoplasm Unspecified Respiratory System
205	01-17	Neoplasm Unspecified Skin Musculoskeletal Sys
206	01-04	Neoplasm Unspecified Breast
207	01-08	Neoplasm Unspecified Uterus
208	01	Neoplasm Unspecified Ovary
209	01-08	Neoplasm Unspecified Genital Org Other Female
210	01-21	Neoplasm Unspecified Other Genitourinary Org
211	01-13	Neoplasm Unspecified Eye, Brain, and Nervous System
212	01-18	Neoplasm Unspecified Other and Unspecified Org
213	01	Observation without Need Med Care

Group 3 - Endocrine, Nutritional and Metabolic Diseases

214	01	Allergic Disorders
215	01-06	Goiter Simple and Unspecified
216	01-07	Goiter Nontoxic Nodular
217	01-17	Thyrototoxicosis with or without Goiter
218	01-03	Cretinism of Congenital Origin
219	01-07	Myxedema and Hypothyroidism
220	01-08	Thyroiditis
221	01-06	Thyroid Gland Other Disorders
222	01	Thyroid
223	01-37	Diabetes Mellitus
224	01-10	Pancreatic Internal Secretion Disorder, Other
225	01-06	Parathyroid Gland Disorders of
226	01-15	Pituitary Gland Disorders of
227	01-05	Thymus Gland Diseases of
228	01-13	Adrenal Gland Disorders of
229	01-11	Ovarian Dysfunction
230	01-08	Testicular Dysfunction
231	01-15	Polyglandular Dysfunction and Related Disorders
232	01-12	Avitaminoses Deficiency Vitamin A
233	01-03	Avitaminoses Deficiency Thiamine
234	01-02	Avitaminoses Deficiency Niacin
235	01-05	Avitaminoses Deficiency Other Vit B Deficiency
236	01-04	Avitaminoses Deficiency Ascorbic Acid Deficiency
237	01-05	Avitaminoses Deficiency Vitamin D Deficiency

Group 3 - Endocrine, Nutritional and Metabolic Diseases (Cont'd)

238	01-04	Avitaminoses Deficiency
239	01-08	Protein Malnutrition-Deficiency
240	01	Nutritional Marasmus
241	01-13	Other Nutritional Deficiency
242	01-21	Congenital Disease of Amino-Acid Transport and Metab
243	01-12	Congenital Disease of Carbohydrate Transport and Metab
244	01-12	Congenital Disease of Lipoid Metab
245	01-20	Other and Unspecified Congenital Disease of Metab
246	01-10	Gout
247	01-42	Plasma Protein Abnormalities
248	01	Amyloidosis
249	01-04	Obesity Not Specified as of Endocrine Origin
250	01-07	Other Hyperalimentation
251	01-09	Other and Unspecified Metabolic Diseases

Group 4 - Diseases of Blood & Blood Forming Organs

252	01-06	Anemias Iron Deficiency
253	01-12	Anemias Other Deficiency
254	01-18	Anemias Hereditary Hemolytic
255	01	Anemias Other Hemolytic
256	01-06	Anemias Acquired Hemolytic
257	01-06	Anemias
258	01-04	Anemias Other and Unspecified
259	01-11	Coagulation Defects
260	01-15	Purpura and Other Hemorrhagic Conditions
261	01-02	Agranulocytosis
262	01-27	Other Diseases of Blood and Blood-Forming Organs
263	01	Leukoerythroblastic Anemia

Group 5 - Mental Disorders

264	01-11	Senile and Presenile Dementia
265	01-10	Alcoholic Psychoses
266	01-07	Psychoses Associated with Intracran Infection
267	01-13	Psychoses Associated with Other Cereb Condition
268	01-30	Psychoses Associated with Other Phys Condition
269	01-71	Schizophrenic Disorders
*270	01-15	Affective Psychoses
271	01-08	Paranoid States
272	01-07	Other Psychosis
273	01-04	Unspecified Psychosis
274	01-31	Neuroses
275	01-29	Personality Disorders
276	01-24	Sexual Deviations and Disorders
277	01-19	Alcoholism
278	01	Drunkenness
279	01-63	Drug Dependence
280	01-63	Drugs Impairment
281	01	History of Intake of Morphine or Alcohol Abuse Past 8 Months
282	01	History of Intake of Alcohol Abuse Past 8 Months

283	01-03	No History of Drug Abuse Past 8 Months
284	01	Other Drug Addiction
285	01-39	Physical Disorder of Presum Psychogenic Origin
286	01-52	Special Symptoms or Syndromes, not Elsewhere Classified
287	01-29	Transient Sit Disturbances
288	01	Character Behav Intell Disorder Nec and Unspecified
289	01-42	Behv Disorders of Childhood
290	01-35	Men Ds N Sp Psychotic Assoc Phys Condition
291	01-10	Borderline Mental Retard
292	01	Borderline Intelligence
293	01-11	Mild Mental Retardation
294	01	Moron
295	01-11	Moderate Mental Retardation
296	01-11	Severe Mental Retardation
297	01	Imbecility
298	01-11	Profound Mental Retardation
299	01	Idiocy
300	01-11	Unspecified Mental Retardation
301	01	Other and Unspecified Types of Mental Retardation
302	01-09	Medical or Special Exam
303	01-03	Follow-up Exam no Need Care or Limit Care
304	01-35	Social Maladjustment without Manifest Psychiatric Disorder
305	01-07	Nervousness and Debility
306	01-10	Observation without Need Med Care

Group 6 - Nervous System and Sense Organs

307	01-24	Meningitis
308	01	Phlebitis and Thrombophlebitis of Intracranial Venous Sinuses
309	01-04	Intracranial and Intraspinial Abscess
310	01-10	Encephalitis, Myelitis, and Encephalomyelitis (ICDA-8 3230)
311	01	Late Effects of Intracranial Abscess or Pyogenic Infection
312	01	Encephalitis Myelitis and Encephalomyelitis (DDIC 3430)
313	01-11	Hereditary Neuromuscular Disorder
314	01-13	hereditary Dis Striatopallidal Sys
315	01-07	Hereditary Ataxia
316	01-15	Other Hereditary Familial Dis Nerv System
317	01	Multiple Sclerosis
318	01-06	Other Demyelinating Diseases of Central Nervous System
319	01-03	Paralysis Agitans
320	01-13	Cerebral Spas Infant Paralysis
321	01-12	Other Cerebral Paralysis
322	01-17	Epilepsy
323	01-06	Migraine
324	01-34	Other Disease of Brain
325	01-16	Motor Neuron Disease
326	01-18	Other Disease of Spinal Cord
327	01-05	Facial Paralysis
328	01-04	Trigeminal Neuralgia
329	01	Brachial Neuritis
330	01-03	Sciatica
331	01-05	Polyneuritis and Polyradiculitis

Group 6 - Nervous System and Sense Organs (Cont'd)

332	01-13	Other and Unspecified Forms Neuralgia and Neuritis
333	01-10	Other Disease of Cranial Nerves
334	01-29	Other Disease of Peripheral Nervous Exc Auto
335	01	Other Disease of Peripheral Nerv Exc Cranial or Autonomic
336	01-07	Disease of Peripheral Auto Nerv System
337	01-21	Conjunctivitis and Ophthalmia
338	01-06	Blepharitis
339	01-04	Hordeolum
340	01-31	Keratitis
341	01-15	Iritis
342	01	Choroiditis
343	01-09	Other Inflam of Uveal Tract
344	01-07	Inflam of Optic Nerve and Retina
345	01-23	Inflam of Lacrimal Glands and Ducts
346	01-24	Other Inflam Disease of Eye
347	01-20	Refractive Errors
348	01-10	Corneal Opacity
349	01-06	Pterygium
350	01-62	Strabismus
351	01-42	Cataract
352	01-44	Glaucoma
353	01-24	Detachment of Retina
354	01-05	Other Disease of Retina and Optic Nerve
355	01-60	Other Disease of Eye
356	01-48	Blindness
357	01-12	Otitis Externa
358	01-31	Otitis Media without Mention of Mastoiditis
359	01-12	Otitis Media with Mastoiditis
360	01-03	Mastoiditis without Mention of Otitis Media
361	01-24	Other Inflam Disease of Ear
362	01-11	Meniere's Disease (Hydrops of Labyrinth)
363	01-06	Otosclerosis
364	01-80	Other Disease of Ear and Mastoid Process
365	01	Deaf Mutism
366	01-20	Other Deafness

Group 7 - Diseases of the Circulatory System

367	01	Rheumatic Fever without Mention of Heart Involvement
368	01-05	Rheumatic Fever with Heart Involvement
369	01-02	Rheumatic Chorea
370	01-03	Diseases of Pericardium
371	01-07	Diseases of Mitral Valve
372	01-06	Diseases of Aortic Valve
373	01-03	Diseases of Mitral and Aortic Valves
374	01-04	Diseases of Other Endocardial Structures
375	01	Rheumatic Diseases of Pulmonary Valve
376	01-07	Other Rheumatic Heart Disease
377	01	Other Rheumatic Endocarditis
378	01	Other Rheumatic Myocarditis
379	01	Other Rheumatic Heart Disease
380	01-09	Malignant Hypertension

Group 7 - Diseases of the Circulatory System (Cont'd)

381	01-02	Essential Malignant Hypertension
382	01-14	Essential Benign Hypertension
383	01-05	Hypertensive Heart Disease
384	01-03	Hypertensive Renal Disease
385	01-03	Hypertensive Heart and Renal Disease
386	01	Hypertensive Cardiovascular Dis with Arteriolar Nephrosclerosis
387	01	Other Hypertensive without Mention of Heart Disease
388	01	Other Unspec Hypertensive Cardiovascular Disease
389	01	Hypertension with Arteriolar Nephrosclerosis
390	01-05	Acute Myocardial Infarction
391	01-03	Other Acute and Subacute Forms of Ischemic Heart Disease
392	01-10	Chronic Ischemic Heart Disease
393	01	Other Arteriosclerosis of Coronary Arteries
394	01	Other Myocardial Degeneration
395	01-03	Angina Pectoris
396	01-03	Asymptomatic Ischemic Heart Disease
397	01	Other Heart Disease Spec Involving Coronary Arteries
398	01-04	Acute Pericarditis
399	01-05	Acute and Subacute Endocarditis
400	01-07	Acute Myocarditis
401	01-06	Chronic Diseases of Pericardium
402	01-08	Chronic Disease of Endocardium
403	01-03	Chronic Endocarditis non-Rheumatic
404	01-10	Cardiomyopathy
405	01-08	Pulmonary Heart Disease
406	01	Other Unspec Disease Heart (ICDA-8 4340)
407	01-46	Symptomatic Heart Disease
408	01-05	Other Myocardial Insufficiency
409	01-08	Ill-defined Heart Disease
410	01-02	Other Unspecified Disease Heart (DDIC 4343-4)
411	01-03	Subarachnoid Hemorrhage
412	01-06	Cerebral Hemorrhage
413	01-08	Occlusion Precerebral Arteries
414	01-04	Cerebral Thrombosis
415	01-03	Cerebral Embolism
416	01	Cerebral Embolism and Thrombosis
417	01-03	Transient Cerebral Ischemia
418	01	Angiospasm Cerebral Arteries
419	01-04	Acute, but Ill-defined, Cerebrovascular Disease
420	01-04	Generalized Ischemic Cerebrovascular Disease
421	01-02	Other Ill-defined Vascular Lesion Aff CNS
422	01-09	Other Ill-defined Cerebrovascular Disease
423	01-07	Arteriosclerosis
424	01	Other Heart Disease Spec as Arteriosclerotic
425	01-11	Aortic Aneurysm (nonsyphilitic)
426	01-17	Other Aneurysm
427	01-07	Other Peripheral Vascular Disease
428	01-13	Arterial Embolism and Thrombosis
429	01-04	Gangrene
430	01-13	Polyarteritis Nodosa and Allied Conditions
431	01-10	Other Disorders of Arteries and Arterioles

Group 7 - Diseases of the Circulatory System (Cont'd)

432	01	Other Disease of Arteries
433	01-04	Disease of Capillaries
434	01	Other Diseases of Circulatory System (DDDIC 4672)
435	01	Pulmonary Embolism and Infarction
436	01-11	Phlebitis and Thrombophlebitis
437	01	Portal Vein Thrombosis
438	01-07	Other Venous Embolism and Thrombosis
439	01-08	Varicose Veins of Lower Extremities
440	10-11	Hemorrhoids
441	01-11	Varicose Veins of Other Sites
442	01-05	Noninfectious Disorders of Lymphatic Channels
443	01-15	Other Diseases of Circulatory System (DDDIC 4670, ICDA-8 458X)

Group 8 - Diseases of the Respiratory System

444	01-02	Nasopharyngitis Acute (Common Cold)
445	01-08	Sinusitis Acute
446	01	Sinusitis Chronic or Unspecified
447	01-04	Acute Pharyngitis
448	01	Acute Tonsillitis
449	01-07	Acute Laryngitis Tracheitis
450	01-04	Acute Upper Respiratory Infections
451	01-03	Acute Bronchitis and Bronchiolitis
452	01-07	Influenza
453	01-06	Pneumonia Viral
454	01	Pneumonia Pneumococcal
455	01-10	Pneumonia Other Bacterial
456	01-11	Pneumonia Other Specified Organism
457	01	Pneumonia Acute Interstitial
458	01	Pneumonia Bronchopneumonia, Organism Unspecified
459	01-06	Pneumonia Unspecified
460	01-06	Pneumonia Lobar
461	01-06	Pneumonia Bronchopneumonia
462	01-06	Pneumonia Primary Atypical
463	01-06	Pneumonia Other and Unspecified
464	01-11	Bronchitis
465	01-05	Emphysema
466	01-07	Asthma
467	01-10	Hypertrophy of Tonsils-Adenoids
468	01	Peritonsillar Abscess
469	01-03	Chronic Pharyngitis and Nasopharyngitis
470	01-07	Sinusitis Chronic
471	01	Deflected Nasal Septum
472	01-05	Nasal Polyp
473	01-03	Chronic Laryngitis
474	01-05	Hay Fever
475	01-28	Other Disease Upper Respiratory Tract
476	01-03	Empyema
477	01-04	Pleurisy
478	01	Spontaneous Pneumothorax
479	01-03	Abscess of Lung

Group 8 - Diseases of the Respiratory System (Cont'd)

480	01	Pulmonary Congestion and Hypostasis
481	01-08	Pneumoconiosis due to Silicates
482	01	Pneumoconiosis due to Other Inorganic Dust
483	01-20	Other Pneumoconioses and Related Disease
484	01-06	Other Chronic Interstitial Pneumonia
485	01	Bronchiectasis
486	01-29	Other Diseases of Respiratory System

Group 9 - Diseases of the Digestive System

487	01-16	Disorders of Tooth Development and Eruption
488	01-17	Diseases of Hard Tissues of Teeth
489	01-10	Diseases of Pulp and Periapical Tissue
490	01-16	Periodontal Diseases
491	01-11	DentoFacial Anomalies Inc Malocclusion
492	01-09	Other Diseases and Conditions of the Teeth and Supporting Structures
493	01-11	Diseases of Jaws
494	01-14	Diseases of Salivary Glands
495	01-11	Diseases of Oral Soft Tissue, Exc Gingiva, and Tongue
496	01-12	Diseases of Tongue and Other Oral Conditions
497	01-16	Diseases of Esophagus
498	01-22	Ulcer of Stomach
499	01-22	Ulcer of Duodenum
500	01-20	Peptic Ulcer, Site Unspec
501	01-22	Gastrointestinal Ulcer
502	01-07	Gastritis and Duodenitis
503	01-06	Disorders of Function of Stomach
504	01-13	Other Disorders of Stomach and Duodenum
505	01-05	Acute Appendicitis
506	01-03	Appendix, Other Diseases of
507	01-08	Inguinal Hernia, without Mention of Obstruction
508	01-15	Other Hernia of Abdom Cav without Mention of Obstruction
509	01-12	Inguinal Hernia, with Obstruction
510	01-29	Other Hernia of Abdom Cav, with Obstruction
511	01-15	Intest Obstruction without Mention of Hernia
512	01-09	Gastroenteritis and Colitis Exc Ulcerative Noninfect Origin
513	01-06	Diverticula of Intestine
514	01-08	Chronic Enteritis and Ulcerative Colitis
515	01-10	Functional Disorders of Intestines
516	01-03	Anal Fissure and Fistula
517	01	Abscess of Anal and Rectal Region
518	01-07	Peritonitis
519	01	Peritoneal Adhesions
520	01-29	Other Disorders of Intestines and Peritoneum
521	01	Acute and Subacute Necrosis of Liver
522	01-16	Cirrhosis of Liver
523	01-03	Suppurative Hepatitis and Liver Abscess
524	01-13	Other Disorders of Liver
525	01-16	Cholelithiasis
526	01-04	Cholecystitis and Cholangitis without Mention of Calculus

Group 9 - Diseases of the Digestive System (Cont'd)

527	01-17	Other Disorders of Gallbladder and Biliary Ducts
528	01-10	Diseases of Pancreas

Group 10 - Diseases of the Genitourinary System

529	01-42	Nephritis
530	01-03	Renal Sclerosis
531	01-11	Infections of Kidney
532	01	Hydronephrosis
533	01-03	Calculus of Kidney and Ureter
534	01-26	Other Disorders of Kidney and Ureter
535	01-07	Calculus of Other Part of Urinary System
536	01-11	Cystitis
537	01-17	Other Disorders of Bladder
538	01-05	Urethritis (Non Venereal)
539	01-07	Stricture of Urethra
540	01-11	Other Disorders of Urinary Tract
541	01-05	Prostate Hyperplasia of
542	01-08	Prostatitis
543	01-06	Prostate, Other Disorders of
544	01-05	Hydrocele
545	01-05	Orchitis and Epididymitis
546	01	Redundant Prepuce and Phimosis
547	01	Sterility Male
548	01-28	Male Genital Organs Other Disorders of
549	01-06	Breast Chronic Cystic Disease of
550	01-18	Breast Other Disorders of
551	01	Salpingitis and Oophoritis Acute
552	01	Salpingitis Acute
553	01	Oophoritis Acute
554	01	Salpingitis and Oophoritis Chronic
555	01	Salpingitis Chronic
556	01	Oophoritis Chronic
557	01	Salpingitis and Oophoritis Unspecified
558	01	Salpingitis Unspecified
559	01	Oophoritis Unspecified
560	01-17	Ovary and Fallopian Tube Other Disease of
561	01-17	Disease of Parametrium and Pelvic Peritoneum Female
562	01-04	Infective Disease of Cervix Uteri
563	01-15	Cervix Other Disease of
564	01-12	Infective Disease of Uterus, Vagina and Vulva
565	01-16	Uterovaginal Prolapse
566	01-06	Malposition of Uterus
567	01-21	Uterus, Other Disorders of
568	01-20	Disorders of Menstruation
569	01-05	Menopausal Symptoms
570	01-06	Sterility Female

Group 11 - Complications of Pregnancy, Childbirth & the Puerperium

571	01-34	Female Genital Infections and Disorders of
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Group 11 - Complications of Pregnancy, Childbirth & the Puerperium (Cont'd)

572	01	Infections of Genital Tract During Pregnancy
573	01-40	Pregnancy Ectopic
574	01-67	Pregnancy Hemorrhage of
575	01-10	Pregnancy Anemia of
576	01-5V	Pregnancy Other Complications of
577	01-17	Urinary Infections Preg and Puerperium
578	01-14	Renal Disease During Pregnancy-Puerperium
579	01-62	Pre-Eclampsia Toxemia
580	01-33	Hyperemesis Gravidarum
581	01-15	Other Toxemias Preg and Puerperium
582	01-64	Abortion Induced for Medical Indications
583	01-14	Abortion Induced for Other Legal Reasons
584	01-03	Abortion Induced for Medical or Legal Reasons
585	01-67	Abortion Induced for Other Reasons
586	01-08	Abortion Spontaneous
587	01-03	Abortion Spontaneous or Unspecified
588	01-64	Abortion Not Specified as Induced or Spontaneous
589	01-0M	Abortion Other
590	01-15	Delivery without Mention of Complication
591	01-17	Delivery Complicated-Plac Previa Antepart Hem
592	01-26	Delivery Complicated by Retained Placenta
593	01-15	Delivery Complicated by Other Postpart Hemorrhage
594	01-43	Delivery Complicated by Abnorm of Bony Pelvis
595	01-61	Delivery Complicated by Fetopelvic Disproportion
596	01-73	Delivery Complicated by Malpresentation of Fetus
597	01-08	Delivery Complicated by Disprop or Malposition of Fetus
598	01-2T	Delivery Complicated by Prolonged Labor Other Origin
599	01-42	Delivery with Laceration of Perineum
600	01-07	Delivery with Rupture of Uterus
601	01-69	Delivery with Other Obst Trauma
602	01-08	Delivery with Other Trauma
603	01-04	Delivery with Other Complications
604	01-08	Delivery with Other Complications Childbirth
605	01	Delivery Uncomplicated but with Anesthetic Death
606	01-13	Sepsis of Childbirth and Puerperium
607	01-20	Puerperal Phlebitis and Thrombosis
608	01-07	Pyrexia of Unknown Origin During the Puerperium
609	01-78	Puerperal Pulmonary Embolism
610	01-10	Cerebral Hemorrhage in the Puerperium
611	01-07	Puerperal Blood Dyscrasias
612	01-07	Anemia of the Puerperium
613	01-75	Other and Unspecified Complications of the Puerperium
614	01-85	Mastitis and Other Disorders of Lactation

Group 12 - Diseases of the Skin and Subcutaneous Tissue

615	01	Furuncle and Carbuncle
616	01-07	Cellulitis of Finger and Toe
617	01-07	Other Cellulitis and Abscess without Lymphangitis
618	01-13	Other Cellulitis and Abscess with Lymphangitis
619	01	Acute Lymphadenitis
620	01	Impetigo

Group 12 - Diseases of the Skin and Subcutaneous Tissue (Cont'd)

621	01-03	Pilonidal Cyst
622	01-18	Other Local Infect of Skin and Subcutaneous Tissue
623	01	Seborrheic Dermatitis
624	01	Infantile Eczema and Related Conditions
625	01-02	Eczema
626	01-23	Other Eczema and Dermatitis
627	01-07	Occupational Dermatitis
628	01-05	Dermatitis Herpetiformis
629	01-06	Pemphigus
630	01-11	Erythematous Conditions
631	01-10	Psoriasis and Similar Disorders
632	01-06	Lichen
633	01-08	Pruritis and Related Conditions
634	01	Corns and Callosities
635	01-09	Other Hypertrophic and Atrophic Conditions of Skin
636	01	Other Dermatoses
637	01-05	Diseases of Nail
638	01-07	Diseases of Hair and Hair Follicles
639	01-09	Diseases of Sweat Glands
640	01-07	Diseases of Sebaceous Glands
641	01-03	Diseases of Sweat and Subaceous Glands
642	01-06	Chronic Ulcer of Skin
643	01-12	Urticaria
644	01-14	Other Disorders of Skin

Group 13 - Diseases of the Musculoskeletal System & Connective Tissue**

645	01-06	Arthritis Acute Due to Pyogenic Organisms
646	01	Arthritis Acute Nonpyogenic
647	01-08	Arthritis Rheumatoid Other Allied
648	01-04	Osteoarthritis Allied Condition
649	01-03	Arthritis Other Specified
650	01	Arthritis Unspecified
651	01-02	Polymyositis Dermatomyositis
652	01-04	Rheumatism Other Nonarticular
653	01	Rheumatism Unspecified
654	01-04	Osteomyelitis and Periostitis
655	01	Osteitis Deformans
656	01-09	Osteochondrosis
657	01-12	Other Disorders of Bone
658	01-08	Internal Derangement of Joint
659	01-05	Displacement of Intervertebral Disc
660	01	Affection of Sacroilia Joint
661	01-10	Ankylosis of Joint
662	01-10	Vertebrogenic Pain Syndrome
663	01-11	Other Diseases of Joint
664	01	Bunion
665	01-12	Synovitis Bursitis Tenosynovitis
666	01	Infective Myositis and Oth Inflammatory Diseases Tendon Fascia
		Other Diseases Muscle Tendon Fascia

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680 01-30 Congenital Anomalies of Ear, Face, and Neck
 681 01-42 Congenital Anomalies of Heart
 682 01-18 Other Congenital Anomalies of Circulatory System
 683 01-12 Congenital Anomalies of Respiratory System
 684 01-17 Cleft Palate and Cleft Lip
 685 01-27 Other Congenital Anomalies of Upper Alimentary Tract
 686 01-18 Other Congenital Anomalies of Digestive System
 687 01-22 Congenital Anomalies of Genital Organs
 688 01-02 Congenital Anomalies of Genitourinary System
 689 01-11 Congenital Anomalies of Urinary System
 690 01-17 Clubfoot Congenital
 691 01-62 Other Congenital Anomalies of Limbs
 692 01-50 Other Congenital Anomalies of Musculoskeletal System
 693 01 Other Congenital Malformations of Bone and Joint
 694 01-18 Congenital Anomalies of Skin, Hair, and Nails
 695 01-09 Other and unspecified Congenital Anomalies
 696 01-25 Congenital Syndromes Affect Multiple Systems

Group 14 Congenital Anomalies

680 01-30 Congenital Anomalies of Ear, Face, and Neck
 681 01-42 Congenital Anomalies of Heart
 682 01-18 Other Congenital Anomalies of Circulatory System
 683 01-12 Congenital Anomalies of Respiratory System
 684 01-17 Cleft Palate and Cleft Lip
 685 01-27 Other Congenital Anomalies of Upper Alimentary Tract
 686 01-18 Other Congenital Anomalies of Digestive System
 687 01-22 Congenital Anomalies of Genital Organs
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 692 01-50 Other Congenital Anomalies of Musculoskeletal System
 693 01 Other Congenital Malformations of Bone and Joint
 694 01-18 Congenital Anomalies of Skin, Hair, and Nails
 695 01-09 Other and unspecified Congenital Anomalies
 696 01-25 Congenital Syndromes Affect Multiple Systems

Group 15 Certain Causes of Perinatal Mortality and Mortality

697 01-11 Death of Infant due to Disease in Mother
 698 01-42 Other Maternal Conditions Unrelated to Pregnancy
 699 01-12 Toxemia of Pregnancy
 700 01-07 Maternal Acute Intrauterine Infection
 701 01-17 Difficult Labor with Abnorm Bones Org Pelv
 702 01-17 Difficult Labor with Disposition without Mention of Abnorm Pel
 703 01-04 Difficult Labor with Malposition of Fetus
 704 01-17 Difficult Labor with Abnormal Forces of Labor
 705 01-17 Difficult Labor with Other Unspecified Complications
 706 01-17 Other Complications of Pregnancy and Childbirth
 707 01-17 Complications of Pregnancy
 708 01-07 Difficult Labor with Abnorm Bones Org Pelv
 709 01-17 Birth Injury without Mention of Cause
 710 01-02 Intrauterine Spinal Injury at Birth
 711 01-01 Termination of Pregnancy Abortion any Type
 712 01-14 Hemolytic Disorder of Newborn with Kernicterus

Group 15 Certain Causes of Perinatal Morbidity and Mortality
(Cont'd)

713	01-02	Anoxia Hypoxia Conditions Not Elsewhere Classified
714	01-02	Postnatal Asphyxia and Atelectasis
715	01-02	Other Birth Injury
716	01-02	Pneumonia of Newborn
717	01-02	Ill Defined Disease Period Early Infancy
718	01-02	Immaturity or Prematurity
719	01-04	Other Conditions of Fetus or Newborn
720	01-04	Fetal Death of Unknown Cause
721	01-02	Neonatal Infection Mortality
722	01-08	Congenital Malformations
723	01-02	Ophthalmia Neonatorum Non Gonococcal
724	01-02	Pemphigus Neonatorum
725	01-02	Umbilical Sepsis
726	01-02	Other Sepsis of Newborn
727	01-02	Nutritional Maladjustment of Newborn
728	01-02	Diarrhea of Newborn

Group 16 Symptoms & Ill-Defined Conditions

729	01-10	Certain Symptoms Referrable Nervous System Spec Senses
730	01-38	Other Symptoms Ref Nervous System Spec Senses
731	01-13	Symptoms Ref Cardiovascular & Lymph System
732	01-18	Symptoms Ref Respiratory System
733	01-09	Symptoms Ref Upper Gastroint Tract
734	01-17	Symptoms Ref Abd Lower Gastroint Tract
735	01-16	Symptoms Ref Genitourinary System
736	01-48	Symptoms Ref Limbs and Joints
737	01-29	Other General Symptoms
738	01-13	Abnormal Urinary Constituents Unspecified Cause
739	01	Headache
740	01	Uremia
741	01-71	Observation without need of Further Medical Care
742	01-02	Senility without Mention of Psychosis
743	01	Sudden Death, Cause Unknown
744	01-14	Other Ill-Defined and Unknown Causes Morbid and Mortality

Group 17 - Accidents, Poisonings, and Violence**

745	01-12	Fracture of Skull Vault
746	01-12	Fracture of Skull Base
747	01-40	Fracture of Face Bones
748	01-12	Fracture of Skull Other and Unqualified
749	01-12	Fracture Skull Mul Involving Skull or Face with Other Bones
750	01-39	Frac-Frac Disl Vrt Col without Spinal Cord Les
751	01-64	Frac-Frac Disl Vrt col with SC Les
752	01-37	Fracture Rib(s) Sternum, Larynx, and Trachea
753	01-28	Fracture Pelvis
754	01-12	Fracture Trunk Mul Ill-Defined
755	01-18	Fracture Clavicle
756	01-20	Fracture Scapula

Group 17 Accidents, Poisonings, and Violence**

757	01-38	Fracture Humerous
758	01-56	Fracture Radius and Ulna
759	01-30	Fracture Carpal Bone(s)
760	01-23	Fracture Metacarpal Bone(s)
761	01-18	Fracture one or more Phalanges of Hand
762	01-12	Fracture Mul Fracture Hand Bones
763	01-17	Fracture Upper Limb Other and Mul Ill-Defined Fracture
764	01-12	Fracture Both Upper Limbs w Rib(s) & Sternum
765	01-29	Fracture Neck of Femur
766	01-25	Fracture Femur Other and Unspecified Parts
767	01-12	Fracture Patella
768	01-40	Fracture Tibia and Fibula
769	01-24	Fracture Ankle
770	01-28	Fracture Tarsal and Metatarsal Bone, one or more
771	01-02	Fracture Phalanges of Foot, one or more
772	01-12	Fracture Other, Multiple, and Ill-Defined
773	01-12	Fracture Both Low Limbs, Low with Upper Limb, and Low Limbs with ribs and Sternum
774	01-16	Fracture Bones Unspecified
775	01-12	Dislocation Jaw
776	01-22	Dislocation Shoulder
777	01-22	Dislocation Elbow
778	01-25	Dislocation Wrist
779	01-16	Dislocation Finger
780	01-18	Dislocation Hip
781	01-29	Dislocation Knee
782	01-12	Dislocation Ankle
783	01-26	Dislocation Foot
784	01-51	Dislocation Other, Multiple, and Ill-Defined
785	01-20	Sprains and Strains Shoulder and Upper Arm
786	01-17	Sprain Strain Elbow Forearm
787	01-19	Sprain Strain Wrist Hand
788	01-15	Sprain Strain Hip Thigh
789	01-17	Sprain Strain Knee Leg
790	01-20	Sprain Strain Ankle Foot
791	01-17	Sprain Strain Sacroiliac Region
792	01-17	Sprain Strain Other and Unspecified Pt of Back
793	01-24	Sprain Strain Other and Ill-Defined
794	01-02	Concussion
795	01-10	Open Wound of Scalp
796	01-12	Cerebral Laceration Contusion
797	01-10	Contusion and Hematoma Scalp
798	01-10	Brain Concussion (Commotion)
799	01-12	Sub (Arac-Dur) and Exdur Hem., Fol Injury without Lac-Contu
800	01-12	Other Unspec Intra Hem, Fol Injury (without Lac-Cont BR)
801	01-14	Intracran Injury of Other and Unspecified Nature
802	01-17	Traumatic Pneumothorax and Hemothorax
803	01-28	Injury Heart Lung
804	01-24	Injury Other and Unspec Intrathoracic Organs
805	01-50	Injury Gastrointestinal Tract
806	01-22	Injury to Liver
807	01-22	Injury to Spleen

Group 17 - Accidents, Poisonings, and Violence** (Cont'd)

808	01-18	Injury to Kidney
809	01-22	Injury to Pelvic Organs
810	01-22	Injury Other & Unspec Intra-Abdominal Organs
811	01-12	Injury Int and Unspec or Inv Intrathoracic & IA Organs
812	01-27	Open Wound Eye Orbit
813	01-12	Eyeball Avulsion of
814	01-33	Open Wound Ear
815	01-45	Laceration Head, Other and Unspecified
816	01-10	Wound of Face, Other & Unspecified
817	01-24	Open Wound Neck
818	01-13	Open Wound Chest
819	01-12	Open Wound Back
820	01-12	Open Wound Buttock
821	01-22	Open Wound Genital Organs (Ext), inc Traum Amputation
822	01-25	Other Multiple and Unspec Open Wounds of Head, Neck, and Trunk
823	01-25	Open Wound Shoulder Upper Arm
824	01-16	Open Wound Elbow, Forearm, and Wrist
825	01-10	Open Wound Elbow, Forearm, and Wrist without Tendon Involvement
826	01-10	Open Wound Wrist Involving Tendon(s)
827	01-13	Open Wound Hand Except Finger(s) Alone
828	01-14	Open Wound Finger(s)
829	01-13	Open Wound Upper Limb Multiple and Unspecified
830	01-12	Traumatic Amputation of Thumb(s) Complete-Partial
831	01-13	Traumatic Amputation of other Finger(s) Complete-Partial
832	01-20	Traumatic Amputation of Arm(s), and Hand(s) Complete-Partial
833	01-13	Open Wound Hip and Thigh
834	01-13	Open Wound Knee, Leg (exc thigh), & Ankle
835	01-10	Open Wound Ankle Involving Tendon(s)
836	01-13	Open Wound Foot exc Toe(s) Alone
837	01-13	Open Wound Toe(s)
838	01-13	Open Wound Lower Limb Multiple and Unspecified
839	01-12	Traumatic Amputation Toe(s) Complete-Partial
840	01-16	Traumatic Amputation Foot(s) Complete-Partial
841	01-20	Traumatic Amputation Leg(s) Complete-Partial
842	01-14	Open Wounds Upper Limbs Both Multiple
843	01-13	Open Wounds Lower Limbs Both Multiple
844	01-13	Open Wounds Multiple of Upper with Lower Limb
845	01-13	Open Wounds Both Hands Multiple
846	01-13	Open Wounds Head with Limb(s) Multiple
847	01-10	Open Wounds Multiple of Head & Trunk
848	01-13	Open Wounds Multiple of Trunk with Limb
849	01-04	Open Wounds Multiple of Face with Limb
850	01-10	Open Wounds Multiple of Face with other Sites
851	01-12	Open Wounds Multiple Other & Unspecified Sites
852	01-26	Superficial Injury of Face, Neck, and Scalp
853	01-23	Superficial Injury of Trunk
854	01-22	Superficial Injury of Shoulder & Upper Arm
855	01-22	Superficial Injury of Elbow, Forearm, and Wrist
856	01-22	Superficial Injury of Hand(s) exc Finger(s) Alone

Group 17 - Accidents, Poisonings and Violence (Cont'd)

857	01-22	Superficial Injury of Finger(s)
858	01-22	Superficial Injury of Hip, Thigh, Leg, and Ankle
859	01-22	Superficial Injury of Foot and Toe(s)
860	01-03	Superficial Injury of Other, Multiple, and Unspecified Sites
861	01-13	Contusion of Face, Scalp, and Neck exc Eye(s)
862	01-16	Contusion Eye and Orbit
863	01-25	Contusion Trunk
864	01-21	Contusion Shoulder and Upper Arm
865	01-15	Contusion Elbow, Forearm, and Wrist
866	01-11	Contusion Hand(s), exc Finger(s) Alone
867	01-11	Contusion Finger(s)
868	01-11	Contusion Hip, Thigh, Leg, and Ankle
869	01-11	Contusion Foot and Toe(s)
870	01-11	Contusion Other, Multiple, and Unspecified Sites
871	01-11	Foreign Body, Eye, and Adnexa
872	01-11	Foreign Body, Ear
873	01-11	Foreign Body, Nose
874	01-11	Foreign Body, Pharynx, and Larynx
875	01-11	Foreign Body, Trachea, Bronchus, and Lung
876	01-03	Foreign Body
877	01-11	Foreign Body, Digestive Tract
878	01-11	Foreign Body Genitourinary Tract
879	01-15	Burn, Confined to Eye
880	01-15	Burn, Confined to Face, Head, and Neck
881	01-15	Burn, Confined to Trunk
882	01-15	Burn, Upper Limb(s), except Wrist and Hand
883	01-15	Burn, Wrist(s) and Hand(s)
884	01-15	Burn, Confined to Lower Limb(s)
885	01-15	Burn, Face, Head, Neck w Limb(s)
886	01-15	Burn, Trunk w Limbs
887	01-15	Burn, Face, Head, Neck w Trunk, Limb(s)
888	01-15	Burn, Other Unspecified Parts
889	01-12	Injury Optic Nerve(s)
890	01-12	Injury Other Cranial Nerve(s)
891	01-12	Injury Nerve(s) in Upper Arm
892	01-12	Injury Nerve(s) Forearm
893	01-12	Injury Nerve(s) Wrist and Hand
894	01-12	Injury Nerve(s) Thigh
895	01-12	Injury Nerve(s) Lower Leg
896	01-12	Injury Nerve(s) Ankle and Foot
897	01-05	Spinal Cord Lesion w/out Evidence of Spinal Bone Injury
898	01-13	Spinal Cord Lesion w/out Evidence of Spinal Bone Injury
899	01-14	Injury Other Nerves Inc Nerve Injury in Sev Parts
900	01-07	Adverse Effect Antibiotics
901	01-06	Adverse Effect Other Anti-Infectives
902	01-11	Adverse Effect Hormones and Synthetic Substitutes
903	01-08	Adverse Effect Primarily Systemic Agents
904	01-06	Adverse Effect Agt Primarily Affecting Blood Constituents
905	01-08	Adverse Effect Analgesics, Antipyretics, and antihermatics
906	01-03	Adverse Effect Anticonvulsants
907	01-05	Adverse Effect Other Sedatives and Hypnotics

Group 17 - Accidents, Poisoning, and Other Causes

908	01-05	Adverse Effect - Other than Agent
909	01	Adverse Effect - Other Agent
910	01-04	Adverse Effect - Injury to the Agent
911	01	Adverse Effect - Injury to the Agent - System - Immunity
912	01-05	Adverse Effect - Injury to the Agent
913	01-08	Adverse Effect - Injury to the Agent - System
914	01-08	Adverse Effect - Injury to the Agent - System
915	01-05	Adverse Effect - Injury to the Agent
916	01-04	Adverse Effect - Injury to the Agent - System
917	01-05	Adverse Effect - Injury to the Agent - System
918	01-05	Adverse Effect - Injury to the Agent - System
919	01-15	Adverse Effect - Injury to the Agent - System
920	01-09	Toxic Effect - Agent
921	01-05	Toxic Effect - Agent - System
922	01-05	Toxic Effect - Agent - System
923	01-05	Toxic Effect - Agent - System - Agent - System - Agent - System
924	01	Toxic Effect - Agent - System - Agent - System - Agent - System
925	01-05	Toxic Effect - Agent - System - Agent - System - Agent - System
926	01	Toxic Effect - Agent - System - Agent - System - Agent - System
927	01	Toxic Effect - Agent - System - Agent - System - Agent - System
928	01	Toxic Effect - Agent - System - Agent - System - Agent - System
929	01	Toxic Effect - Agent - System - Agent - System - Agent - System
930	01	Toxic Effect - Agent - System - Agent - System - Agent - System
931	01	Toxic Effect - Agent - System - Agent - System - Agent - System
932	01-09	Toxic Effect - Agent - System - Agent - System - Agent - System
933	01-05	Toxic Effect - Agent - System - Agent - System - Agent - System
934	01-07	Toxic Effect - Agent - System - Agent - System - Agent - System
935	01	Toxic Effect - Agent - System - Agent - System - Agent - System
936	01-02	Toxic Effect - Agent - System - Agent - System - Agent - System
937	01-09	Effects Radiation
938	01-06	Effects Radiation - Agent - System - Agent - System - Agent - System
939	01-02	Effects Radiation - Agent - System - Agent - System - Agent - System
940	01-13	Effect Heat and Light
941	01-06	Effect Air Pressure
942	01-25	Effect Other External Causes
943	01-11	Early Complication Trauma
944	01-11	Injury Other, Unspecified
945	01-11	Complications of Surgical Procedure
946	01-10	Other Complications of Surgical Procedure
947	01-07	Other Complications of Medical Care

Group 18 - Supplementary Classification Special Conditions

948	01-24	Medical or Special Exam
949	01-20	Skin Immunity and Sensitization Tests
950	01-38	Persons Receiv Propy, Inoc, & Vacc
951	01-01	Follow-Up Exam without Need Care or Limit Care
952	01-11	Contact with or exposure to Infective Parasitic Diseases
953	01-14	Carrier or Suspected Carrier of Infective Organism
954	01-14	Prenatal Care
955	01-05	Postpartum Observation
956	01	Healthy Person Accompanying Sick Relative

Group 18 Supplementary Classification: Special Conditions (Cont'd)

957	01-09	Other Person without Complaint or Illness
958	01-09	Medical Surgery Aftercare
959	01-10	Plastic Surgical Treatment
960	01-11	Fitting of Prosthetic Device
961	01-08	Donor Organ
962	01-04	Device: Cardia: Functioning
963	01-14	Device: Organ: Functioning
964	01-10	Single Born without Mention of Immaturity
965	01-05	Single Born Immature
966	01-02	Single Born Term
967	01	Single Born Outside Hospital
968	01-05	Single Born Immature
969	01-02	Single Born Premature
970	01-02	Single Born Postmature
971	01-10	Twin, without Mention of Immature Mate Liveborn
972	01-08	Twin, without Mention of Immature Mate not Liveborn
973	01-05	Twin, Immature Mate Liveborn
974	01-05	Twin, Immature Mate Not Liveborn
975	01-02	Twin, Mate Liveborn Term
976	01	Twin, Mate Liveborn Outside Hospital
977	01-05	Twin, Mate Liveborn Immature
978	01-02	Twin, Mate Liveborn Postmature
979	01-02	Twin, Mate Liveborn Postmature
980	01-02	Twin, Mate Stillborn Term
981	01	Twin, Mate Stillborn Outside Hospital
982	01-02	Twin, Mate Stillborn Immature
983	01-02	Twin, Mate Stillborn Premature
984	01-02	Twin, Mate Stillborn Postmature
985	01-10	Multiple Born without Mention of Immature, Mates all Liveborn
986	01-10	Multiple Born without Mention of Immature, Mate(s) not Liveborn
987	01-05	Multiple Born Immature, Mates all Liveborn
988	01-05	Multiple Born Immature, Mate(s) not Liveborn
989	01-02	Multiple Born, Mates all Liveborn Term
990	01	Multiple Born, Mates all Liveborn Outside Hospital
991	01-02	Multiple Born, Mates all Liveborn Immature
992	01-02	Multiple Born, Mates all Liveborn Premature
993	01-02	Multiple Born, Mates all Liveborn Postmature
994	01-02	Multiple Born, Mate(s) Stillborn Term
995	01	Multiple Born, Mate(s) Stillborn Outside Hospital
996	01-02	Multiple Born, Mate(s) Stillborn Immature
997	01-02	Multiple Born, Mate(s) Stillborn Premature
998	01-02	Multiple Born, Mate(s) Stillborn Postmature
999	01-06	Fetal Death

*Difference between ICD-9 and ICD-9CM not resolved as of 2/2/87.

**Re-definition of new sub-categories not completed by NHRC revision committee.

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19 ABSTRACT (Continue on reverse if necessary and identify by block number) The Occupational Medicine Department of the Naval Health Research Center has developed extensive computerized medical data resources for use in disease surveillance, occupational health, and epidemiologic research. This report describes in detail these data resources and provides potential users with an understanding of the research capabilities of this system and a guide to the medical and demographic information it contains.			
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