

THE IDENTIFICATION AND PREVALENCE OF VETERINARY CLINICAL
EVENTS IN U.S. MILITARY WORKING DOGS DEPLOYED TO IRAQ
BETWEEN MARCH 20, 2003, AND DECEMBER 31, 2007

By

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DEDICATION

This project and subsequent thesis are dedicated to the Military Working Dogs, their military handlers, and the military veterinary personnel who have given their lives in service to the United States of America.

PREFACE

This study was supported in part by the U.S. Army Veterinary Corps. A manuscript will be developed from this thesis and submitted for consideration for publication.

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THESIS

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Objective: The purpose of this study was to identify the medical issues experienced by Military Working Dogs during their period of deployment in Iraq.

Design: This study was a retrospective cross-sectional survey based on database and medical record abstraction.

Population: Military Working Dogs (MWDs) that were deployed to Iraq at any time between 20 March 2003 and 31 December 2007 were the inclusive population of interest. Seven hundred ninety-four (794) MWDs were identified as having been deployed to Iraq during the inclusive dates.

Four hundred ninety-five (495) MWDs were identified that had medical events during the deployment period.

Procedures: Eligible MWDs were identified through several sources, to include database query, medical record abstraction questionnaire, and medical record abstraction.

Demographic information collected for each MWD included tattoo, name, age, gender, breed, Branch of Service, and duty certification. Information on each veterinary/medical clinical event (VCE) was collected. This information was coded, and data entered into a database for organization. Frequency and prevalence information were determined for each category of VCE.

Results: The top four VCEs experienced by MWDs while deployed in Iraq were gastrohepatic, dermatologic, traumatic injury, and appendicular musculoskeletal issues.

Conclusions: Training, equipment, and supplies for veterinary personnel who care for the deployed MWDs should be tailored accordingly to suit the identified medical needs of the MWDs.

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INTRODUCTION

The United States Military Working Dogs (MWDs) have been part of the military since the Revolutionary War and they are still serving with distinction alongside troops deployed throughout the world. However, there are limited data concerning the range and type of significant clinical events that MWDs face while in a deployed theater of operations. Identifying the major significant veterinary clinical events experienced by MWDs at specific deployment locations would aid the U.S. Army Veterinary Corps in determining ways needed to improve the overall care provided to these canine deployed troops. A veterinary clinical event is defined as a veterinary medical symptom or diagnosis categorized by either primary body system affected or type of event experienced.

MWDs serve unique functions in unique environments saving tens of thousands of lives during war and peace by performing search and rescue, security and patrol, explosives detection, narcotics detection, mine detection, and guard duty. During deployment, MWDs often have work schedules that are different from their usual home station assignments. Deployment locations vary in proximity to the battlefield, in climate, and in differing levels of veterinary medical care availability. The significant clinical events might reflect this and could include different and possibly more frequent events than those seen in dogs outside a deployed theater of operations.

A literature review of published data on MWDs revealed two applicable references concerning U.S. MWDs deployed since the first Gulf War. There was no data available for

the current conflict. This review reveals an important gap in the literature regarding significant clinical events information for dogs deployed to Iraq, which this study proposes to address. This study identifies deployment-specific veterinary clinical events (e.g. trauma, stress, behavioral issues) that would eventually aid in identifying areas where additional personnel training (both veterinary and dog handlers) and veterinary field equipment supplementation are needed. These events could include new or previously unknown bacterial, fungal, or parasitic diseases endemic to the region. This knowledge would aid in advance planning to be more prepared to deal with these situations. It also identifies preventable clinical events, such as those associated with training events or insect/snake bites. Information obtained may help the veterinarians at the MWD's home station know which needed supplies to send with the dog and handler when they deploy to the theater of operations, taking the strain off the destination veterinary field unit's limited resources.

The purpose of this study is to identify significant clinical events and their prevalence in U.S. Military Working Dogs while deployed to Iraq between 20 March 2003 and 31 December 2007. Using information gathered from two MWD databases, hard copy medical records, hard copy deployment records, and an e-mail medical record abstraction questionnaire completed by of the MWD's home station or field veterinary personnel, significant clinical events were identified and the prevalence data calculated for each category of clinical event. The prevalence data calculated for each category of clinical event identified was shown by gender, age, breed, branch of Service, and duty certification.

Literature Review

History has shown that when troops are deployed to different locations throughout the world that they are susceptible to the local endemic diseases. This is also the case with canines. MWDs serving at Pacific and Far East installations in the 1950s were heavily impacted by *Dirofilaris immitis* (heartworm disease), a mosquito-borne disease. *D. immitis* was associated with the death of 50% of the MWDs, with a total loss of 80% workable duty time (Robinson, and Garner, 1973). Dogs serving in Vietnam between 1968 and 1972 developed a previously undiagnosed disease in MWDs. Through much research, the dogs were diagnosed with Tropical Canine Pancytopenia, later termed canine ehrlichiosis, a tick-borne disease. Between 200-300 MWDs died from ehrlichiosis. In addition to the mortality, the morbidity greatly impacted the units, as frequently more than half of the dogs were listed as suspect and quarantined. When the MWDs are sick or die, this leaves the dog's handler effectively unable to perform their duties, leaving many of the units without the necessary dog team support to perform their missions (Kelch, 1984). Canine troops that served in Vietnam also developed glossitis, with inflammation and degeneration of the distal lingual papillae. Glossitis resulted in the most duty days lost for one 6-month period in 1970. This is not a typical disease in canines. It was noted in 1966 in Air Force MWDs stationed in Texas. At the time, these cases were attributed to excessive exposure to sunlight (Stedham, Jennings, et al, 1973).

Two other diseases were prevalent in MWDs that served in Vietnam: melioidosis and testicular pathology. Melioidosis, caused by the bacterium *Burkholderia pseudomallei*, is also known as Whitmore's disease and can be contracted by humans as well. A cohort study of

MWDs that served in Vietnam revealed an increased risk of testicular degeneration and seminoma. This was of particular interest in that Vietnam veterans who served in the same area of operations also had higher than normal rates of testicular degeneration and cancer (Hayes, Tarone, and Casey, 1995). Canines are often sentinels for conditions that cross species.

Because of the lessons learned from the past, the U.S. Army Veterinary Corps researches the endemic canine diseases before initial MWD deployment in a theater of operations. MWDs now have flea and tick prevention applied regularly, as well as monthly oral *D. immitis* and intestinal parasite control. However, controlling for known infectious and parasitic diseases does not eliminate the veterinary medical problems experienced by deployed MWDs. Potential zoonotic diseases in dogs deployed to the Persian Gulf area during Gulf War I still accounted for 63% of the illnesses presented at the Veterinary Treatment Facilities (Burkman, Moore, and Peterson, 2001). Most of the medical problems experienced by MWDs deployed to Kuwait in 2004 were related to trauma, heat stress, and gastric dilatation and volvulus (GDV) (Toffoli, and Rolfe, 2006).

In addition to the endemic diseases, MWDs and troops must also deal with the unique climate of each deployment location. Extremes of hot and cold temperatures increase the likelihood of heat or cold injuries. Work, training times, and schedules have to be adjusted accordingly (Toffoli, and Rolfe, 2006). Each locality has its own toxic plant life, poisonous snakes, and poisonous insects. Depending on the proximity of the duty site to the combat zone, injuries and death due to trauma may be increased (Robinson, and Garner, 1973).

The specific veterinary clinical events observed at specific deployment locations can be different from those seen in the MWD population as a whole. The majority of the dogs deployed to Southwest Asia are German Shepherd or Belgian Malinois. During 1991, Malinois' at the MWD training center in San Antonio, Texas, were mostly seen for problems related to kenneling. These included traumatic dental disease (e.g. broken canines), tail lesions, and various skin conditions (Jennings, 1991). Causes of death/euthanasia in the general population of MWDs was appendicular degenerative joint disease, neoplasia, GDV, and geriatric decline (Dutton, and Moore, 2000; Moore, Burkman, et al, 2001).

Veterinary field units provide the first line of medical care that MWDs receive. They must be staffed and stocked accordingly. As recently as 2000 and 2006, veterinary units supporting military operations reported that the medications supplied were not those needed for the area of operation (Bentzel, and Moloff, 2000; Toffoli, and Rolfe, 2006).

Different breeds show increased prevalence for certain conditions. Belgian Malinois are at increased risk of death for neoplasia, and respiratory tract illness. German Shepherds have almost twice the risk of death due to spinal cord diseases as compared to Malinois (Moore, Burkman, et al, 2001). As the MWD ages, it will be more difficult for it to adapt to harsh environments and it will be at increased risk for systemic diseases (Toffoli, and Rolfe, 2006). Male gender has been implicated in increased risk for GDV in MWDs (Jennings, and Butzin, 1992). No studies were found where certification or branch of Service had been assessed in relation to the prevalence of medical conditions.

METHODS

Study Design

As this was a retrospective cross-sectional survey based on database and medical record abstraction, no animal contact was made in the course of this study.

Population

Military Working Dogs (MWDs) that were deployed to Iraq at any time between 20 March 2003 and 31 December 2006 were originally planned as the inclusive population of interest in this study.

Variables

MWD deployment location of Iraq was the exposure variable. Any significant veterinary clinical events experienced during the deployment period were defined as the outcome variable. Covariates included: age in years at date of first deployment; gender; breed of canine; branch of Service; and duty certification.

The United States Military has several Branches of Service. The Branches of Service in this study are: Army, Air Force, Navy, and Marines. Each MWD serves in only one Branch of Service.

Each MWD is trained and certified in one, sometimes two, areas. These include: patrol, explosives detection, narcotics detection, mine detection, specialized search, combat

tracker, improvised explosive device detection (IEDD), patrol/explosives detection, and patrol/narcotics detection.

A veterinary clinical event was defined as a veterinary medical symptom or diagnosis experienced during the dates of deployment and categorized by primary body system affected or type of event experienced. The major categories were broken down as follows: behavioral, cardiac, death (all causes), dermatologic, endocrine, exposure (dehydration), gastrohepatic, hematologic, heat injury, immunologic, miscellaneous, musculoskeletal, neoplasia, ophthalmic, otic, parasites, respiratory, spinal cord/neurologic, trauma, and urogenital. Each major category was further subdivided for accuracy (Appendix E).

As retired MWDs are adopted and become privately owned pets, it was expected that these records would be lost to review. Therefore, they were excluded from the original study design.

Data Collection

Information was to come from three main sources. The Deceased MWD Database was to be queried for dogs who served in Iraq between the dates previously specified. The query list would be used to identify eligible dogs. The medical records for the identified deceased MWDs would then be abstracted for the following data: MWD identification (name, tattoo number, microchip number); MWD descriptive information (age, gender, breed, duty certification, branch of Service); deployment location and dates of deployment; cause of death; and veterinary clinical events experienced while deployed.

The Lotus Notes (LN) MWD Database was used to obtain the names, tattoo numbers, home stations, and deployment location for living MWDs. This information was to be used to contact the Veterinary Corps Officer at the MWD's home duty station for completion of a medical record abstraction questionnaire (Appendix B). As the medical record is located where the MWD is currently stationed, the Veterinary Corps Officer at the MWD's home duty station had access to the dog's medical record. According to the LN MWD database, 421 MWDs were identified that met the inclusion criteria. Estimating that another 25% (140) are now deceased, the study population was approximated to be 561 MWDs.

The e-mailed medical record abstraction questionnaire requested data on MWD identification (name, tattoo number, microchip number); MWD descriptive information (age, gender, breed, duty certification, branch of Service); deployment location and dates of deployment; disposition of MWD (living, retired, deceased, cause of death); and veterinary clinical events experienced while deployed (Appendix B).

Non-respondents to the e-mail questionnaire were to be contacted a second time (by e-mail) to encourage participation. If no response was forthcoming, a follow-up phone call was to be made by the primary investigator to the home station Veterinary Corps Officer. Estimated final non-response rate was 20%, which gave an anticipated 449 expected abstractions to be considered for eligibility.

Reliability checks were to be done comparing the deployment information from the LN MWD Database computer query to the hard copy medical records. The medical record

abstraction questionnaire was mostly precoded. Open coding was to be performed by the primary investigator.

The coding sheet from the Gulf War I Study (Burkman, Moore, and Peterson, 2001) was to be used for the veterinary clinical events. Data entry was to be completed in Excel with double data entry for accuracy. Analysis was to be completed in SAS analytical software.

Analysis

Each clinical event was to be identified, categorized into broad categories, and then further divided into subcategories within each broad category. Frequency and prevalence information were to be calculated for each type of veterinary clinical event.

RESULTS

While the original study population was to be MWDs that had been deployed to Iraq between 20 March 2003 and 31 December 2006, it was pointed out during the data collection process that this would exclude dogs deployed in support of the Iraqi Surge that occurred in the fall of 2007. Therefore, the timeframe was extended to include MWDs deployed to Iraq at any time between 20 March 2003 to 31 December 2007.

Information was to be obtained from three main sources: the Deceased MWD Database, the Lotus Notes (LN) MWD Database, and medical record abstraction questionnaires e-mailed to the home station Veterinary Corps Officer (VCO). Seven sources were ultimately used. In addition to the above listed sources, data was obtained from: medical records abstracted from the retired and deceased MWD records at the DOD MWD Center Medical Records Repository; the identification of previously unidentified eligible MWDs by the home duty station VCOs; the Army Special Operations Veterinarian for the Special Operations MWDs, which are not included in either database; and questionnaires submitted by VCOs in the theater of operations on MWDs that were deployed in Iraq at the time of data collection.

The Deceased MWD Database was compiled from returned medical records. If the deceased MWD's record was not mailed back to the Records Repository, the MWD was not included in the database. A query was run to identify MWDs that had deployed to Iraq during the previously specified dates. A total of 29 MWDs were identified as possibly eligible, some of which were also identified in the LN MWD Database.

At the time of this study, the LN MWD Database was a data repository without the ability to do queries. The LN MWD Database did have pre-selected groupings and subsets of records available for review. The LN MWD Database lists all of the currently deployed MWDs around the world, but the list is all-inclusive. This list was printed and 457 MWDs with the following deployment locations were identified as possibly eligible: OIF (Operation Iraqi Freedom), Iraq, SWA (southwest Asia), undisclosed, N/A, classified, OEF (Operation Enduring Freedom), Middle East, and desert. As the deployment location of the MWD may change after the information has been entered into the LN database, it is not always accurate. Since the medical record accompanies the MWD while on deployment, the information in the MWD's medical record is accurate. Therefore, the deployment information from the medical record was used as the definitive authority for the MWD's place of deployment.

During this time, it was discovered that the LN MWD Database only contained information for the most recent deployment by the MWD. If the MWD had been redeployed to a different location since their Iraq deployment, the initial deployment information was overwritten by the new data, and not recoverable.

Serendipitously, a notebook was found in the DOD MWD Center Conference Room that contained 271 pages of LN MWD Database print-outs of MWD deployment location information between June 2004 and April 2007. This notebook was referenced and 375 possibly eligible MWDs not listed in the current LN MWD Deployment Database listing were found.

Using the LN MWD Database deployment list, the deployment notebook lists, and the Deceased MWD Database, an Excel spreadsheet was created listing the MWD name, tattoo, deployment location, dates of most recent deployment, and home duty station. Dogs listed in multiple sources were only listed once in the spreadsheet. Using these three sources, 832 dogs were identified as possibly eligible (Appendix F). The LN MWD Database was then used to obtain and/or verify home duty station locations for living MWDs.

Excel spreadsheets were created for each home station duty location with identified eligible or possibly eligible MWDs. These spreadsheets were organized by Veterinary Corps Regional Command, subcategorized by District Command. The spreadsheets, along with the electronic questionnaire and related instructions, were sent out by the VETCOM Commander with his request for compliance (Appendices B, C, D). As the Veterinary Corps Officer (VCO) at the MWD's home duty station had access to the MWD's medical record, the questionnaire was completed by the home duty station veterinary personnel. The completed questionnaires were e-mailed back to the primary investigator for collection. If the MWD was currently redeployed, and the medical record was therefore unavailable, this would be reflected in the e-mailed medical record abstraction questionnaire from the home duty station Veterinary Corps Officer.

The e-mailed medical record abstraction questionnaire requested data on MWD identification (name, tattoo number, microchip number); MWD descriptive information (age, gender, breed, duty certification, branch of Service); deployment location and dates of deployment; disposition of MWD (living, retired, deceased, cause of death); and veterinary

clinical events (VCEs) experienced while deployed. There were 619 active duty MWDs (not retired or deceased) identified as possibly eligible, with medical record abstraction requests submitted to 153 home duty stations. Astoundingly, 831 medical record abstraction questionnaires were sent back. These included additional MWDs identified by the home duty station VCOs as having been deployed to Iraq during the requisite timeframe, Army Special Operations MWDs not previously identified, and responses from VCOs in Iraq on MWDs that were deployed during the data collection period. If there were questions regarding the responses or missing information, the person whose name was listed as having completed the questionnaire was contacted for follow-up response.

Dogs that were not listed in the database by home duty station location were checked against the retired/deceased listing in the LN MWD Database. Medical records for retired or deceased MWDs are sent back to the MWD Medical Records Repository at the DOD MWD Center, Lackland AFB, Texas. The medical records for the identified retired and deceased MWDs were abstracted by the primary investigator for the following data: MWD identification (name, tattoo number, microchip number); MWD descriptive information (age, gender, breed, duty certification, branch of Service); deployment location and dates of deployment; cause of death or reason for retirement; and veterinary clinical events experienced while deployed. There were 213 dogs identified as retired or deceased. Of these, 156 records were found in the Records Repository and subsequently abstracted (Appendix H). Fifty-seven records for retired or deceased MWDs were not found in the repository. Thirty-seven records were not found or available at the MWDs home station. Many of these

belonged to dogs that had redeployed to areas other than Iraq. Therefore, the medical record was not available at the home station or at an Iraq deployment duty site.

Another spreadsheet (Appendix G) was created which included the name, tattoo, home station, and name of the Veterinary Corps Officer (removed from Appendix G due to privacy), whether or not the dog had been to Iraq, and if so, had it had medical issues while deployed. This list was used to track the status of questionnaires as to whether they had been received or not, if the dog was currently deployed, whether or not the record was available for review, and if the MWD was considered eligible for the study based on the questionnaire information. The finalized eligibility list included MWDs that had been or were currently deployed to Iraq. They may or may not have experienced veterinary clinical events while deployed (Appendices I, J).

Reliability checks were to be done comparing the deployment information from the LN MWD Database computer to the hard copy medical records. As the medical record was used as the definitive authority, it was determined that the reliability check would be checking the reliability of the computer, not the record. Therefore, the reliability checks were performed but not tracked. All questionnaires were printed out in hard copy for coding and data entry. The questionnaire was mostly precoded. Items that needed to be open coded, to include significant veterinary clinical events, were coded by the primary investigator and checked for accuracy by an assistant.

Originally, the MWD's microchip number was to be used as the unique identifier for each dog. However, it was found that some MWDs have more than one microchip. Therefore, the MWD's ear tattoo was used as the unique identifier.

There are no intact females included in this study as all females were spayed (surgically neutered) prior to training and prior to becoming operational.

In a few instances there were duplicate surveys completed on the same MWD. This occurred with MWDs that were deployed in Iraq at the time of the data call. A survey was completed using the original medical record by the home station VCO, and another survey was completed by the deployment VCO in Iraq using the deployment (copy) record. Either the survey that was most complete was used or the information was combined into one survey by the primary investigator.

Coding Clarifications:

During date coding, if month and year were listed in dates, but no day, the default was the first day of the month. A couple of surveys from overseas home stations were completed using the European date format (dd/mm/yy) versus the American date (mm/dd/yy) format. These were generally very obvious (no 15th month of the year) and were corrected by the primary investigator at the time of coding. Date of resolution fields were often filled in with zeroes or left blank. As it was unclear if the individual completing the survey had read the instructions correctly, all zero and blank date fields were defaulted to "no data."

Torn pads were coded as abraded pads. Dermal cysts were defaulted to sebaceous cysts.

Unless otherwise identified all masses were defaulted to "Neoplasia," for coding. If the dog

was a male and was neutered between deployments, the gender default was intact male, based on the original deployment. If survey question 15.a. (was dog deployed to Iraq) was answered as “no”, but Iraq deployment dates and medical issues were recorded, the answer was defaulted to “yes”. If survey question 7 (is the medical record available) was answered as “no”, but the questionnaire was completed, question 7 answer defaulted to “yes”. Routine semi-annual physical exams, health certificate exams, and routine wellness checks were not counted as clinical event visits unless abnormal findings were noted on the exams. Age was calculated by taking the difference in days between the MWDs date of birth and the start date of the first deployment, then dividing by 365 to determine age in years. This was rounded to the nearest year. For example, MWDs that were between 1 and 1.5 years of age were listed as 1 year.

The coding scheme from the Gulf War I MWD Study (Burkman, Moore, and Peterson, 2001) was to be used as the coding scheme for this study. However, the Gulf War I coding did not allow the veterinary clinical events to be grouped by category and further subcategorized. Therefore, the coding sheet for the veterinary clinical events was created by the primary investigator based on either broad categories of body system or types of clinical event. These were then subcategorized by more specific body location or type of event (Appendix E).

Due to the inexperience of the primary investigator in creating data entry databases, and also due to time constraints, personnel at a statistical consulting service were contacted for assistance. A data entry database was created in Access. Two individuals were hired and

trained by the primary investigator to complete the data entry. Logic checks were to have been built into the data entry database (e.g. to differentiate between the letter “O” and the number zero, European date format- 15/12/04- versus American date format – 12/15/04). However, this did not appear to have been done. Data was checked by the primary investigator for obvious errors, the information checked against the original abstraction questionnaire, and corrected. Data counts were run using Excel 2003.

Validity of the questionnaire process would ideally include a recheck of at least 10% of all completed questionnaires. As the primary investigator only had personal access to the medical records for the retired and deceased MWDs, 10% of these records were re-abstracted and the questionnaires compared to the original abstractions to assess the validity of the abstraction process. The sample records were chosen by listing all 156 available retired and deceased records in alphanumeric order by tattoo number. A random number of 11, which is between 1 and 16, was chosen. The eleventh tattoo was selected from the list, then every tenth dog was selected to a total of 16 dogs. The records from these 16 MWDs were re-abstracted. Of these 16 records, out of a total of 2208 data fields, there were 11 data field errors found. This calculated to a 0.5% data field error rate. These errors were found in 5 record reabstractions and included 5 missed clinical events, 4 missed visits, 1 incorrect gender, and 1 missed redeployment.

Prevalence for the MWD population was calculated for each category of veterinary clinical event (Table 2). This veterinary clinical event information was grouped by age, gender, breed, duty certification, and branch of Service (Appendix L).

A total of 1052 MWDs were identified as possibly eligible. Deployment locations were verified in the hard copy medical record by the individuals completing the medical record abstraction questionnaire. Of the 1052 MWDs identified as possibly eligible, 794 were found to have deployed to Iraq. Of the 794 MWDs which had deployed to Iraq, 495 experienced medical issues (veterinary clinical events) during the deployment period (Appendices I, J). The finalized eligibility list included 495 MWDs that had been or were currently deployed to Iraq and had experienced veterinary clinical events while deployed. There were 1210 VCEs identified in the 495 MWDs during deployment (Table 3). Demographic information was also collected for the 299 MWDs which had deployed to Iraq but did not experience any veterinary clinical events during deployment (Appendix J). All 794 MWDs that deployed to Iraq were considered as the population at risk for prevalence calculations.

	Veterinary Clinical Event = Yes	Veterinary Clinical Event = No
Male MWD	422	238
Female MWD	73	61

Performing an Odds Ratio calculation from the above 2 x 2 table, OR = 1.47. The odds of a male MWD having a VCE are 1.47 as compared to a female MWD having a VCE.

Table 1: Demographics of MWDs that deployed to Iraq between 20 March 2003 and 31 December 2007.

(NOTE: Age was calculated as the MWD's age in years from date of birth to start date of first deployment period. As the dates of deployment for Special Operations MWDs are classified, age could not be calculated for these dogs. Therefore, the Special Operations MWDs are not included in the AGE demographic. They are included in the rest of the demographics.)

VARIABLE	Number of MWDs Without VCEs	% Without VCEs = n/total number of MWDs	Number of MWDs With VCEs	% With VCEs = n/total number of MWDs	TOTAL
AGE					
N	299	38.4	477	61.3	776
MEAN	4.4		5.04		4.8
MEDIAN	4		4		4
MIN	1		2		1
MAX	12		12		12
GENDER					
N	299	37.6	495	62.3	794
MALE INTACT	144	18.1	244	30.7	388
MALE CASTRATED	94	11.8	178	22.4	272
FEMALE INTACT	0	0	0	0	0
FEMALE SPAYED	61	7.7	73	9.2	134
BREED					
BELGIAN MALINOIS	99	12.4	161	20.3	260
GERMAN SHEPHERD	171	21.5	269	33.8	440
DUTCH SHEPHERD	7	0.9	25	3	32
LABRADOR RETRIEVER	19	2.4	33	4.1	52
BELGIAN TERVUREN	2	0.3	1	0.1	3
GOLDEN RETRIEVER	0	0	1	0.1	1
MALINOIS/GERMAN SHEPHERD MIX	1	0.1	0	0	1

VARIABLE	Number of MWDs Without VCEs	% Without VCEs = n/total number of MWDs	Number of MWDs With VCEs	% With VCEs = n/total number of MWDs	TOTAL
BREED (cont.)					
VIZSLA	0	0	2	0.3	2
GERMAN SHORTHAIRED POINTER	0	0	1	0.1	1
SPRINGER SPANIEL	0	0	2	0.3	2
CERTIFICATION					
PATROL ONLY	0	0	1	0.1	1
NARCOTIC ONLY	1	0.1	2	0.3	3
EXPLOSIVE ONLY	38	4.8	35	4.4	73
PATROL/NARCOTIC	24	3	40	5	64
PATROL/EXPLOSIVE	208	26.2	372	46.9	580
SPECIALIZED SEARCH	18	2.3	35	4.4	53
COMBAT TRACKER	5	0.6	6	0.8	11
IEDD	5	0.6	4	0.5	9
BRANCH					
ARMY	58	7.3	181	22.8	239
AIR FORCE	101	12.7	135	17	236
NAVY	61	7.7	60	7.6	121
MARINE	79	9.9	119	15	198

Table 2: Veterinary Clinical Event Category by number of MWDs; Percentage of total events; Prevalence of each event calculated as the number of dogs with the event divided by the total population at risk

CATEGORY	NUMBER OF DOGS	PERCENTAGE = NO. DOGS WITH EVENT/ 495 TOTAL DOGS WITH VCEs	PREVALENCE = NO. DOGS WITH EVENT / 794 TOTAL DOGS IN IRAQ
B = Behavioral	24	4.8	3
C = Cardiac	5	1	0.6
DH = Death	20	4	2.5
DM = Dermatologic	160	32.3	20.2
EX = Exposure	4	0.8	0.5
GH = Gastrohepatic	192	38.8	24.2
HC = Hematologic; chemistry	2	0.4	0.3
HT = Heat injury	16	3.2	2
IM = Immunologic	3	0.6	0.4
MC = Miscellaneous	65	13.1	8.2
MS = Musculoskeletal	108	21.8	13.6
N = Neoplasia	27	5.5	3.4
OP = Ophthalmic	22	4.4	2.8
OT = Otic	74	14.9	9.3
P = Parasites	1	0.2	0.1
R = Respiratory	9	1.8	1.1
SN = Spinal cord/Neuro	29	5.9	3.7
T = Trauma	160	32.3	20.2
UG = Urogenital	37	7.5	4.7
Total (some dogs counted in more than one category)	958		

Table 3: Veterinary Clinical Event Category: Number of events; Percentage of events per category by the total number of events; Frequency of events that were Battlefield Related; Frequency of events that were Prior Conditions (medical conditions that were identified prior to deployment); Frequency of MWDs medically evacuated or sent back early due to the categorized medical condition (veterinary clinical event)

CATEGORY	NUMBER OF EVENTS	PERCENTAGE = SPECIFIC EVENT /TOTAL EVENTS (ALL)	BATTLEFIELD RELATED	PRIOR CONDITION	MEDICALLY EVACUATED	SENT BACK EARLY
B = Behavioral	29	2.4	11	0	0	1
C = Cardiac	6	0.5	0	1	0	0
DH = Death	20	1.7	13	0	0	0
DM = Dermatologic	210	17.4	7	35	1	0
EX = Exposure	4	0.3	1	0	1	0
GH = Gastrohepatic	262	21.7	9	8	1	0
HC = Hematologic; chemistry	2	0.2	0	1	0	0
HT = Heat injury	16	1.3	4	1	1	0
IM = Immunologic	3	0.2	0	0	0	0
MC = Miscellaneous	80	6.6	6	9	0	0
MS = Musculoskeletal	139	11.5	22	27	1	1
N = Neoplasia	33	2.7	0	5	1	0
OP = Ophthalmic	25	2.1	3	5	1	1
OT = Otic	90	7.4	2	15	1	0
P = Parasites	1	0.1	0	0	0	0
R = Respiratory	11	0.9	0	0	1	0
SN = Spinal cord/Neuro	38	3.1	5	15	0	2
T = Trauma	194	16	81	4	3	0
UG = Urogenital	47	3.9	0	6	0	0
Total (some dogs counted in more than one category)	1210		164	132	12	5

Table 4: Frequency and Prevalence for Sent Back, Medically Evacuated, and Access to Care Issues

	Number of MWDs	Percentage = MWDs with event / total number of MWDs with events (495)	Prevalence = MWDs with event/total number of MWDs at risk (794)	Number of Events	Percentage = Specific event/Total Events (1210)	Prior Condition	Battlefield Related
Sent Back to home station before scheduled end of deployment	5	1	0.6	5	0.4	1	0
Medically Evacuated (Med-Evac'd)	12	2.4	1.5	12	1	0	4
Access to Care Issues (e.g. care not available; unable to reach care; more advanced care needed)	8	1.6	1	10	0.8	1	0

DISCUSSION

Referring to Table 1 demographic data, the “typical” MWD would be a 4 year old, intact male, German Shepherd, certified in Patrol/Explosives, belonging to either the Army or the Air Force. Prevalence data for each clinical event category, as shown in Table 2, shows that the top four medical issues experienced by deployed MWDs were, in descending order: gastrohepatic issues with 24.2% (192/794) of MWDs with gastrointestinal issues (vomiting and/or diarrhea); dermatology issues with 20.2% (160/794) of MWDs with skin issues; trauma (predominantly lacerations, abrasions, and animal bites); and musculoskeletal injuries (predominantly lameness) (Appendix E). Interestingly, there were 24 MWDs with events identified as behavioral issues, 11 of these events were stated as being Battlefield Related. Previous investigation of behavioral issues in MWDs was not found in the Literature Review.

Table 3 reflects the findings in Table 2, showing that the top four clinical events were, in descending order, gastrohepatic issues, dermatology issues, trauma, and musculoskeletal injuries. Of the 1210 total VCEs, 164 were Battlefield Related. Clinical events that were related to prior/pre-existing conditions from before deployment were predominantly dermatology, musculoskeletal, otic, or spinal cord/neurologic in origin. In a prior study by Toffoli and Rolfe (2006), the most common medical events encountered by MWDs deployed to Kuwait were trauma, heat stress, and gastric dilatation and volvulus (GDV). Surprisingly, this study reports only 16 heat injury cases and 1 GDV case. This may be a reflection of improved handler and veterinary personnel training to prevent heat injury and GDV, as well as the push to perform prophylactic gastropexies.

There were 132 of 1210 clinical events related to prior conditions. From Tables 3 and 4, it is seen that 12 MWDs were medically evacuated (Med Evac'd) from the area and 5 were sent back early, 1 for a pre-existing medical condition. Eight MWDs were identified as having had access to care issues (Appendix E, Category "V"). These ranged from not having veterinary care available, to needing more advanced care than could be provided in theater. Some VCEs were counted in more than one category, e.g. DH (death) and T12C (killed in action – gunshot wound).

It cannot be emphasized enough that this identification and presentation of data does not include analysis for confounding. An important item for further investigation is the comparison between the category frequency of the covariates to the overall frequency of each covariate. For example, the largest frequency in a category may be German Shepherds. Does this mean that German Shepherds are at a higher risk for a specific type of clinical event, or does it simply mean that German Shepherds were the largest breed group used as Military Working Dogs and are therefore over-represented? This should be the next step in the analysis of this data, and is planned for a separate future study.

Other future studies might include comparison of this Iraq War study data to the results from the Gulf War I study to identify any changes in the type and frequency of VCEs. It would also be of interest to compare the Iraq War VCEs to those experienced by non-deployed dogs in the United States. Other comparison studies could be done using the cohort of training classmates from the DOD MWD Training Center. As dogs are trained after procurement, ages and training would be similar across the group. This might identify if there

is a predisposing exposure due to the training environment. Identifying specific subcategories of VCEs and comparing them to the type of unit to which the dog is assigned might reveal VCEs that appear specific for that occupation. Years of service, and thus “wear and tear” on the body, should also be investigated.

Other information that would be helpful in interpreting results would be finding out when the new duty certifications became active. Also, finding out how the layout and availability of veterinary care changed/evolved between March 2003 and December 2007. Did this affect the data (e.g. more information from later dates versus earlier dates)? There may have been just as many medical events, but they may not have been recorded.

This study looked at only those problems experienced during the deployment period. It did not track problems that manifested after the deployment period. A separate study of medical problems experienced by dogs after return from Iraq would be warranted. Further comparisons that would be of interest: the number of dogs killed in action (KIA) versus death in theater due to non-battle causes.

Each broad VCE category was divided into subcategories for more accurate identification of clinical issues. Coding included post-deployment VCEs for retired and deceased dogs. These coding categories are included in Appendix E, but may be blank if not experienced by MWDs during an Iraq deployment. This information was not analyzed in this study, but should be pursued in future studies. Other information that bears further study from this data: comparing the date of clinical event onset to the date of arrival in theater;

comparing the VCEs to the number of months deployed, as each branch of Service has different deployment lengths.

Bias

In a study of this type, there are several areas where bias might have been introduced to the data. Even though the written instructions that were given were very explicit, surveys were completed by 118 different people. Variability and mistakes in interpretation were inevitable. As specified in the survey instructions, the VCO was to complete the Veterinary Clinical Event portion. This was not always the case and a few overtly nonsensical responses were received. For example, one MWD was diagnosed with lymphoma, yet the condition was stated as being resolved three days later. There were also problems with a number of surveys where there was incorrect usage of the skipping pattern inherent in the questionnaire.

As the mission in Iraq has evolved, new duty certifications were introduced around 2005-06, so newer duty certifications have younger dogs (on average) versus more older dogs in established certification categories.

The certification may also use more breed-specific dogs due to special attributes of that breed. As an example, patrol dogs are more typically German Shepherd or Belgian Malinois, while Specialized Search Dogs (a new duty certification) are generally Labrador Retrievers. If Labradors as a breed are more prone to a medical issue, such as otitis externa, without further data analysis it would appear that Specialized Search Dogs have more otitis externa. This would be an erroneous conclusion.

Not all of the retired or deceased MWD medical records were found. Therefore, data for these MWDs was not collected. It is possible that the record was incorrectly given to the new owner instead of being sent to the Records Repository or that the record is still at the MWD's former home station.

It was apparent during the abstraction of the retired and deceased MWD medical records that not all medical events from the deployment timeframe were entered into the record. Even if the MWD did not experience any clinical events while deployed, there should have still been entries for routine physical exams at the times of arrival and departure from the deployment location. This was not always the case. Some VCOs send a copy of the medical record (deployment record) with the MWD during deployment, instead of the original medical record. Information placed in the deployment record did not always make it into the permanent record upon the MWD's return to home station. Therefore, this medical information was missed.

Some deployed dogs were missing deployment end dates, while those deployed at the time of survey completion had anticipated end dates listed. It is unknown if these dogs returned early, on time, or later than anticipated.

Each entry in the medical record is signed by either the VCO or technician creating the entry, and includes the location where the MWD was seen. If the home station kennelmaster could not verify the MWD's historical deployment information, the location stated in the medical entry was used to verify deployment to Iraq. However, the medical entry location

does not always reflect the deployment location of the MWD. While some dogs may have been deployed to Iraq, if they received their veterinary care at a facility outside of the country, e.g. Kuwait, the entry in the medical record did not accurately reflect the MWD's deployment location. These MWDs would have been erroneously excluded from eligibility.

Pre-existing conditions were only those with documented previous medical entries prior to deployment. There are instances where the MWD could have had an undiagnosed pre-existing condition that became apparent during the deployment, such as MWDs with undiagnosed degenerative joint disease or undiagnosed neoplasia. These were not counted as Prior Conditions.

Some of the medical entries stated that there were access to care issues in which the MWD may not have been able to reach veterinary care. It is probable that this happened more often than was recorded. Therefore, these medical events would not have been recorded. It was also noted during record abstraction of the retired and deceased MWDs that there were less medical entries made during the first few months of the Iraq War. It is unknown if this is due to less availability of veterinary care at the time, records being unavailable for annotation, or other reasons. Some of these medical issues experienced during deployment were annotated in the medical record at the post-deployment exam, as reported to the veterinarian by the handler, even though no medical record entries were found during the deployment period itself. It is unknown as to how this was handled by each individual completing the questionnaire.

There may have also been inaccurate data abstracted from the medical record if the person completing the abstraction relied solely on the deployment history and/or Master Problem List (MPL) for information instead of verifying the information in the actual medical entries. It is not uncommon for items listed in the Master Problem List to be incomplete or inaccurate.

Category frequencies broken down by Branch of Service may be skewed, as certain Branches would be more likely to be in a Forward Operating Base away from veterinary care. These MWDs may be seen by a medic and the information not entered into the medical record.

Age calculations were based on the MWD's age at the start of its first deployment. This is a rough calculation of age, as the dog could have deployed again up to 4 years later and experienced different medical issues at an older age that would have been inadvertently attributed to the dog at his first deployment when he was 4 years younger. Dates of onset and resolution of medical events were collected during this survey. This information will be used for a future study to more accurately identify age to medical event.

While the Army Special Operations MWD information was volunteered for the study, Air Force, Marine Corps, and Navy Special Operations MWD information was not included. Due to the mission and operational tempo of Special Operations units, these personnel and their MWDs are at a higher risk for injury and death. The inclusion of the Army Special

Operation MWD data without the Sister Service Special Operations information would skew the Branch of Service frequency of Death.

The intent was that only definite symptoms or diagnoses were to be listed in the abstraction. It is unknown whether or not this was followed in the field.

Lessons Learned:

It was not specified to determine gender status at time of deployment. The abstraction data may have listed the gender status of the MWD at the time of survey completion (e.g. intact male versus castrated male).

Explicit abstraction instructions should have been given as to how to distinguish a battlefield-related clinical event from a mission-related clinical event, e.g. shrapnel injury from an explosion versus a cut foot from concertina wire while on patrol.

On occasion MWDs will retrain to a new duty certification. It was not specified to verify duty certification at time of deployment from duty certification at time of survey completion. In addition, MWDs are placed in one of four deployment categories (Appendix A) based on their medical fitness. The deployment category information was not requested on the questionnaire.

It became clear during the abstraction of the retired and deceased MWD records that there is sometimes a difference between the date of onset and the date of exam. This distinction should have been made when creating the questionnaire.

The coding for the clinical events could have been better organized so that fewer specific categories were listed and less miscellaneous items needed. A standardized coding system should be identified and used on all future MWD investigations. This standardization would allow for ease of coding and the comparison/contrast of VCEs across separate MWD studies.

CONCLUSION

More study is needed into why there is such a high incidence of gastrointestinal events and to determine if this is related to specific incidents, such as arrival in country, battlefield stress, poor storage conditions for the dog food, non-potable water, etc. Veterinary personnel should receive more training to include assessment, care, and treatment of traumatic injuries, gastrohepatic ailments, dermatology issues, and appendicular musculoskeletal injuries. Equipment and supply needs might include more access to medicines and diagnostics for gastrohepatic ailments, dermatology and otic issues.

Identifying the major categories of significant veterinary clinical events experienced by MWDs during deployment would aid the U.S. Army Veterinary Corps in determining ways to improve the overall care provided to these canine troops. As the theater of operations and mission evolves, so will the veterinary medical needs of the Military Working Dogs. Further on-going study is strongly recommended.

APPENDICES

Appendix A: Definitions

Category – broad category of clinical event grouped by body system or type of injury (Appendix E)

Covariates - age in years, gender, breed, branch of Service, duty certification (specialized training)

Deployment Categories –

- Category 1 – Unrestricted Deployment
- Category 2 – Restricted Deployment
- Category 3 – Temporarily Non-deployable
- Category 4 – Non-deployable

DOD MWD VS – Department of Defense Military Working Dog Veterinary Service

Exposure variable – Iraq deployment

Gender categories

- intact male has not been surgically castrated/neutered and is still capable of reproduction;
- castrated/neutered male has had the testicles surgically removed and cannot reproduce;
- intact female has not been surgically neutered and is still capable of reproduction;
- spayed female has had the ovaries +/- the uterus surgically removed and cannot reproduce

MWD – Military Working Dog

Outcome variable – veterinary clinical event

Prior or pre-existing condition – a medical condition documented in the medical record as having been previously diagnosed prior to the Iraq deployment

Specific – subcategory subdivided into specific related groupings (Appendix E)

Subcategory – broad category subdivided into smaller related groupings (Appendix E)

Veterinary Clinical Event (VCE) aka significant clinical event - a veterinary medical symptom or diagnosis categorized by either primary body system affected or type of event experienced

Veterinary Corps Officer (VCO) – a military veterinarian who is a member of the United States Army Veterinary Corps

<p>7. Is the MWD Veterinary Record available?</p> <p style="text-align: center;">Yes-----<input type="checkbox"/></p> <p>(If "yes", skip to Part C, Question 10)</p> <p style="text-align: center;">No-----<input type="checkbox"/></p> <p>(If "no", continue to Question 8)</p>	<p>01</p> <p>02</p>	<p>[6]</p>
<p>8. Has the MWD been adopted or is it deceased?</p> <p style="text-align: center;">Yes-----<input type="checkbox"/></p> <p>NOTE: If "yes", then STOP!! You are finished with the questionnaire!! Follow the instructions for submission in the accompanying instruction sheet.</p> <p style="text-align: center;">NO-----<input type="checkbox"/></p> <p>(If "no", continue to Question 9)</p>	<p>01</p> <p>02</p>	<p>[7]</p>
<p>9.a Is the MWD deployed or has the MWD been reassigned?</p> <p style="text-align: center;">Yes-----<input type="checkbox"/></p> <p>(If "yes", continue to Question 9.b)</p> <p style="text-align: center;">No-----<input type="checkbox"/></p> <p>NOTE: If "no", specify disposition. If unknown, type in "unknown".</p>	<p>01</p> <p>02</p> <p>03</p>	<p>[8]</p>
<p>9.b. What is the current duty assignment or station of the MWD? If unknown, type in "unknown".</p>		<p>NC</p>
<p>STOP!! You are finished with the questionnaire!! Follow the instructions for submission in the accompanying instruction sheet.</p>		

C. MWD Descriptive Data	For Office Use Only	
	Code	DF#
10. What is the MWD's Date of Birth, in mm/dd/yy format? / / m m d d y y		[6]
		[7]
		[8]
11. What is the gender of the MWD? Male----- <input type="checkbox"/> Male/castrated---- <input type="checkbox"/> Female----- <input type="checkbox"/> Female/spayed----- <input type="checkbox"/>	01	[9]
	02	
	03	
	04	
12. What is the breed of the MWD? Belgian Malinois-- <input type="checkbox"/> German Shepherd----- <input type="checkbox"/> Dutch Shepherd----- <input type="checkbox"/> Other - Specify	01	[10]
	02	
	03	
	04	
This space intentionally left blank		

13. In which Branch of Military Service does the MWD serve?	For Office Use Only	
	Code	DF#
U.S. Army----- <input type="checkbox"/>	01	[11]
U.S. Air Force----- <input type="checkbox"/>	02	
U.S. Navy----- <input type="checkbox"/>	03	
U.S. Marine Corps--- <input type="checkbox"/>	04	
Other- Specify	05	
14. What is the MWD's primary Certification?		
Patrol only----- <input type="checkbox"/>	01	[12]
Narcotic only----- <input type="checkbox"/>	02	
Explosive only----- <input type="checkbox"/>	03	
Patrol/Narcotic----- <input type="checkbox"/>	04	
Patrol/Explosive----- <input type="checkbox"/>	05	
Mine detection----- <input type="checkbox"/>	06	
Specialized Search----- <input type="checkbox"/>	07	
Combat Tracker--- <input type="checkbox"/>	08	
Training Aid----- <input type="checkbox"/>	09	
Other - Specify	10	

		For Office Use Only	
		Code	DF#
<p>15.a. Was the MWD deployed to Iraq at <u>any time</u> between 20 March 2003 and 31 December 2006? If unsure, <u>verify</u> deployment location information with the MWD kennelmaster.</p> <p style="text-align: center;">Yes-----<input type="checkbox"/></p> <p>(If "Yes", continue to Question 15.b)</p> <p style="text-align: center;">No-----<input type="checkbox"/></p> <p>(If "No", then STOP!! You are finished with the questionnaire!! Follow the instructions for submission in the accompanying instruction sheet.)</p>		01	[13]
		02	
<p>15.b. Between what date(s) was the MWD deployed to Iraq? Use mm/dd/yy format. NOTE: If not applicable, fill all date fields with zeroes. For example, 00/00/00.</p> <p style="text-align: center;">Deployment 1: From / / m m d d y y</p> <p style="text-align: center;"> To / / m m d d y y</p> <p style="text-align: center;">Deployment 2: From / / m m d d y y</p> <p style="text-align: center;"> To / / m m d d y y</p>			[14]
			[15]
			[16]
			[17]
			[18]
			[19]
			[20]
			[21]
			[22]
			[23]
			[24]

D. MWD Disposition Information	For Office Use Only	
	Code	DF#
16.a. Is the MWD retired? <div style="text-align: right;">No-----<input type="checkbox"/></div> <div style="text-align: center;">(If "No," skip to Question 17.a.)</div> <div style="text-align: right;">Yes-----<input type="checkbox"/></div> <div style="text-align: center;">(If "Yes," continue with Question 16.b)</div>	01	[38]
16.b. Date of retirement: / / m m d d y y (Skip to Question 18)		[39]
		[40]
		[41]
17.a. Is the MWD deceased? <div style="text-align: right;">No-----<input type="checkbox"/></div> <div style="text-align: center;">(If "No," skip to Question 18)</div> <div style="text-align: right;">Yes-----<input type="checkbox"/></div> <div style="text-align: center;">(If "Yes," continue with Question 17.b)</div>	01	[42]
17.b. Date of death as listed on Death Certificate: <div style="text-align: center;">/ / m m d d y y</div>		[43]
		[44]
		[45]

17.c. What is the cause of death as listed on the Death Certificate?		[46]
--	--	------

	For Office Use Only	
	Code	DF#
17.d. Was the cause of death battlefield related? No----- <input type="checkbox"/> Yes----- <input type="checkbox"/> Continue with Question 18	01	[47]
	02	

22	a. Problem or Diagnosis		[76]
	b. Date of onset / / mm / dd / yy		[77]
			[78]
	Date of resolution / / mm / dd / yy		[79]
			[80]
			[81]
	NOTE: If unresolved, place zeroes in the "Date of resolution" fields. For example, 00/00/00.		[82]
	c. Did this condition exist before deployment? Yes----- <input type="checkbox"/> No----- <input type="checkbox"/>	01 02	[83]
	d. Is this medical problem related to battlefield trauma? Yes----- <input type="checkbox"/> No----- <input type="checkbox"/>	01 02	[84]
	23	a. Problem or Diagnosis	
b. Date of onset / / mm / dd / yy			[86]
			[87]
Date of resolution / / mm / dd / yy			[88]
			[89]
			[90]
NOTE: If unresolved, place zeroes in the "Date of resolution" fields. For example, 00/00/00.			[91]
c. Did this condition exist before deployment? Yes----- <input type="checkbox"/> No----- <input type="checkbox"/>		01 02	[92]
d. Is this medical problem related to battlefield trauma? Yes----- <input type="checkbox"/> No----- <input type="checkbox"/>		01 02	[93]

26	a. Problem or Diagnosis		[112]
			[113]
	b. Date of onset / / mm / dd / yy		[114]
			[115]
	Date of resolution / / mm / dd / yy		[116]
			[117]
	NOTE: If unresolved, place zeroes in the "Date of resolution" fields. For example, 00/00/00.		[118]
	c. Did this condition exist before deployment? Yes----- <input type="checkbox"/> No----- <input type="checkbox"/>	01 02	[119]
	d. Is this medical problem related to battlefield trauma? Yes----- <input type="checkbox"/> No----- <input type="checkbox"/>	01 02	[120]
	27	a. Problem or Diagnosis	
			[122]
b. Date of onset / / mm / dd / yy			[123]
			[124]
Date of resolution / / mm / dd / yy			[125]
			[126]
NOTE: If unresolved, place zeroes in the "Date of resolution" fields. For example, 00/00/00.			[127]
c. Did this condition exist before deployment? Yes----- <input type="checkbox"/> No----- <input type="checkbox"/>		01 02	[128]
d. Is this medical problem related to battlefield trauma? Yes----- <input type="checkbox"/> No----- <input type="checkbox"/>		01 02	[129]

Appendix C: MWD Veterinary Events and Deployment Study Information

21 Jan 08

Purpose of the Study: This study will identify Iraq deployment-specific medical problems in MWDs that could aid in advance planning prior to deployment. Trends or patterns of symptoms may also be recognized that could identify possible new or previously unknown diseases or syndromes. The goal is to enhance and improve the overall care provided for the deployed Military Working Dog.

Excel Spreadsheets: There is one Excel spreadsheet for each District Veterinary Command. Each spreadsheet is subdivided into separate duty stations. Each of these stations has at least one MWD that has been identified as having been deployed to Iraq at some time between 20 Mar 03 and 31 Dec 06. MWD names preceded by an asterisk need to have deployment data verified. This is included within the separate Questionnaire.

MWDs in the spreadsheet that are listed in the Lotus Notes database (“In LN DB?”) should have a medical record at their home station. If the dog is NOT listed in the Lotus Notes database, it is possible that the medical record has not yet been sent to the Records Repository. Complete a Questionnaire for each dog listed in the spreadsheet for which there is a medical record on station.

If you are aware of any MWDs that deployed to Iraq between 20 Mar 03 and 31 Dec 06 that are NOT in the spreadsheet, please complete a Questionnaire for that MWD. My goal is to identify and include as many eligible MWDs as possible so that this study is more accurate.

The Questionnaire and Instructions: Schedule A will be used to record information abstracted from the official Veterinary Medical Records of MWDs previously identified as having been deployed to Iraq between 20 Mar 2003 and 31 Dec 2006. The Questionnaire is designed for ease of use. While the Questionnaire appears lengthy, please note that most pages require minimal data input. It is not as long as it looks! For guidance in completing the Questionnaire, see the Specific Instructions Sheet.

Suspense: The suspense for electronically completed Questionnaires is 8 Feb 08. If the VCO has not contacted the Point of Contact (POC) by the suspense date, a reminder e-mail will be sent. If there is still no reply from the VCO, a reminder phone call will be made. If the 8 Feb 08 suspense cannot be met, contact the POC as soon as possible.

Point of Contact: MAJ Wendy Mey at (210) 671-3991, DSN 473-3991
wendy.mey@us.army.mil or wendymey@ln.amedd.army.mil

**Appendix D: U.S. Military Working Dog Veterinary Events and Deployment Study:
Specific Instructions**

Schedule A: Military Working Dog Study

Purpose of the Study: This study will identify Iraq deployment-specific medical problems that would aid in advance planning prior to deployment. Trends or patterns of symptoms may also be recognized that could identify possible new or previously unknown diseases or syndromes. The goal is to enhance and improve the overall care provided for the deployed Military Working Dog.

Suspense: The suspense for electronically completed Questionnaires is 8 Feb 08. If the VCO has not contacted the Point of Contact (POC) by the suspense date, a reminder e-mail will be sent. If there is still no reply from the VCO, a reminder phone call will be made. If the 8 Feb 08 suspense cannot be met, contact the POC as soon as possible.

About the Questionnaire: Schedule A is used to obtain information from the official Veterinary Medical Record of U.S. Military Working Dogs (MWD) regarding deployment location, dates of deployment, MWD demographics, MWD disposition (if applicable), and medical problems experienced by the MWD while deployed. Schedule A will be used to record information abstracted from the official Veterinary Medical Records of MWDs previously identified as having been deployed to Iraq between 20 Mar 2003 and 31 Dec 2006.

The Questionnaire consists of five parts:

- A. Document Identification Items
- B. MWD Identification and Record Availability
- C. MWD Descriptive Data
- D. MWD Disposition Information
- E. Veterinary Clinical Events Information

Parts A, B, C, and D may be completed by the Animal Care Technician.
Part E must be completed by the Veterinary Officer.

NOTE: The Questionnaire is designed for ease of use. While the Questionnaire appears lengthy, please note that most pages require minimal data input.

Depending on the answers provided, there are several questions that may be skipped or result in only part of the Questionnaire being completed.

BE SURE TO FOLLOW THE INSTRUCTIONS PROVIDED IN THE DOCUMENT ITSELF AND IN THE ACCOMPANYING INSTRUCTION SHEET.

If you have any questions, please contact:
MAJ Wendy Mey at (210) 671-3991, DSN 473-6991,
wendy.mey@us.army.mil or wendymey@ln.amedd.army.mil

Entering Responses:

IMPORTANT: If prompted by WORD to enable or disable Macros, pick “Enable Macros”. Not all computers will ask this.

Navigation within the Questionnaire: You can jump from one answer field to the next using the “Tab” key or the cursor and mouse. Do NOT use the Enter/Return key.

This Questionnaire is a password protected document. Answers can only be entered into the provided answer fields within the document. These areas appear as shaded gray boxes or blanks on the computer screen. The shaded gray is not visible when the document is printed off.

There are 3 ways to enter an answer.

1. If the question is followed by a text field, a typed response is required.

Example: What is the name of Military Working Dog, as listed in the Veterinary Medical Record?

2. If the answer has a square box, click on the appropriate response by moving the cursor to the box and clicking the mouse. If the response requires further clarification, be sure to fill-in the necessary specifics in the attached text field.

Example:

What is the breed of the MWD? Belgian Malinois-----
German Shepherd-----
Dutch Shepherd----
Other-----
Specify

NOTE: If a box is “x”d, but you wish to change your response to a different box, you must first “uncheck” the incorrect “x” by clicking on the box. Only after the incorrect response has been removed will you be allowed to select the “correct” response.

3. If the question asks for the date, type in the date using the six-digit mm/dd/yy format.

 / /
mm / dd / yy

For example, 7 Jan 08 would be recorded as 01/07/08.

NOTE: After this is entered it will appear as 1/7/8. That is normal.

Instructions by Question: The very top row of Schedule A refers to coding and data entry and can be ignored for the purposes of completing the questionnaire from the Medical Record.

Section A: Document Identification Items

1. Document ID – This number will be the identification number for Schedule A and is pre-printed on document.
2. Abstractor’s Name – Type the names of the Animal Care Technician and Veterinary Officer who are completing the questionnaire.
3. Date of questionnaire completion – Type the date on which the questionnaire was completed using the six-digit mm/dd/yy format. For example, 30 Jan 08 would be recorded as 01/30/08.

Section B: Military Working Dog (MWD) Identification and Record Availability

4. Military Working Dog’s Official Name – Type the official name of the MWD as it is listed on the MWD’s Veterinary Medical Record. If the Medical Record is not available, type in the MWD’s name as listed in the Eligible MWDs Spreadsheet sent out with this Questionnaire.
5. MWD’s tattoo number – Type the MWD’s tattoo. This is very important as the Schedule A’s will be filed by this unique identifier. If the Medical Record is not available, type in the MWD’s tattoo as listed in the Eligible MWDs Spreadsheet sent out with this Questionnaire.
6. MWD’s microchip number – Type the MWD’s microchip number. This will be used as a cross-check unique identifier against the MWD’s tattoo. If the microchip number is unknown, type “unknown” in the text field.
7. MWD record availability – Click on the correct box and follow the appropriate instructions for your response.
8. MWD adopted or deceased – Click on the correct box and follow the appropriate instructions for your response.
- 9.a. MWD deployed or reassigned – Click on the correct box and follow the appropriate instructions for your response.
- 9.b. Current duty assignment – Complete the text field with the requested information and STOP. You are finished with the questionnaire. Follow the instructions for submission in the “Saving and Submitting the Questionnaire” section at the end of this instruction sheet.

Section C: MWD Descriptive Data

10. MWD's date of birth – Type the MWD's birthdate using the six-digit mm/dd/yy format. For example, 19 Feb 00 would be recorded as 02/19/00.

11. MWD's gender – Click the appropriate box indicating the MWD's gender. Be sure to correctly mark castrated or spayed dogs.

12. MWD's breed – Click the appropriate box indicating the MWD's breed. If the breed is not listed, under "Other", type the specific breed in the text field provided.

13. Branch of Service – Click the appropriate box indicating the Branch of Service in which the MWD serves. If the Branch is not listed, under "Other", type the specific branch in the text field provided.

14. MWD Primary Certification – Click the appropriate box indicating the MWD's primary certification. Note that many MWDs are dual certified. Mark the appropriate dual certification box. If the certification or dual certification is not listed, under "Other", type the specific certification or dual certification on the line provided. If unknown, type in "unknown". If not certified, type in "not certified".

15.a. MWD Iraq Deployment Verification – Click the appropriate box indicating whether or not the MWD was deployed to Iraq between 20 March 2003 and 31 December 2006. If the deployment location or dates of deployment are not known or are unclear, verify the information with the MWD's kennelmaster or acting kennelmaster. Follow the appropriate instructions for your response.

15.b. Deployment Dates - Type the inclusive dates of deployment using the six-digit mm/dd/yy format. For example, 19 Feb 06 would be recorded as 02/19/06. If the MWD was deployed to Iraq more than once between 20 Mar 03 and 31 Dec 06, complete the deployment dates for each deployment as specified in the previous sentence.

Section D: MWD Disposition Information

16.a. Is the MWD retired? – Click the appropriate box. Follow the appropriate instructions for your response.

16.b. Date of Retirement - Record the date of retirement using the six-digit mm/dd/yy format. For example, 19 Feb 07 would be recorded as 02/19/07. After completing the question, skip to question 18.

17.a. Is the MWD deceased? – Click the appropriate box and follow the appropriate instructions for your response.

17.b. Date of Death - Record the date of death using the six-digit mm/dd/yy format. For example, 19 Feb 07 would be recorded as 02/19/07.

17.c. Cause of Death - Type the cause of death EXACTLY as listed on the Death Certificate.

17.d. Battlefield Related – Click the appropriate box denoting whether or not the MWD’s death was battlefield related. This would include any death directly or indirectly related to battlefield exposure. For example, this could include trauma from weapons/explosives or chemical exposure.

Section E: Veterinary Clinical Events Information

18. Identification of Veterinary Clinical Events –

1) If the MWD did NOT experience any medical problems while he/she was deployed, click the “no” box. STOP!! DO NOT PROCEED with the rest of the questionnaire. You are finished. Save and submit the Questionnaire as instructed under “Saving and Submitting the Questionnaire” at the end of this instruction sheet.

2) If the MWD experienced any medical problems while he/she was deployed, click the “yes” box. Proceed on with the rest of the questionnaire.

19. a. Identify the medical problem or diagnosis from the MWD’s Medical Record. Be as specific as possible and DO NOT rely solely on the Master Problem List. Use the SF600s for reference.

19.b. Record the date of onset and resolution using the six-digit mm/dd/yy format. For example, 19 Feb 06 would be recorded as 02/19/06. If the problem is unresolved, place zeroes in the “Date of resolution” fields. For example, 00/00/00.

19.c. Click on the appropriate box.

19.d. Click on the appropriate box.

20 – 28. Questions 20 through 28 are for additional medical problems experienced by the MWD during the deployment period. For each Question, follow the instructions for Question 19 above.

29. If Questions 19 through 28 have been completed and there are still more medical problems experienced by the MWD during its deployment to Iraq, use the text field in Question 29 to type in the medical problem/diagnosis, dates of onset and resolution, whether or not this was a pre-existing condition (before the deployment), and whether or not the problem was related to battlefield trauma.

SAVING AND SUBMITTING THE QUESTIONNAIRE:

When the questionnaire is completed, it is to be saved as a WORD document using the following filename format: tattoo and MWD name. For example, E231 Ronny. The original blank form can be reused and saved as often as needed.

Completed questionnaires are to be e-mailed back to MAJ Wendy Mey at the following e-mail address: wendy.mey@us.army.mil NOTE: List the filename in the subject line of the e-mail.

If there are any questions or concerns regarding the questionnaire, please do not hesitate to contact MAJ Mey at (210) 671-3991, DSN 473-3991, or at the e-mail address listed above.

Thank you for your help with this study!

Appendix E: Coding Sheets

Veterinary Clinical Event (VCE) Coding and Specific Subcategory Frequencies:

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
B = Behavioral	29						
		1 = fearful	7				
				A = shaking/trembling post- battlefield	2		
				B = distress in combat zone - shaking, cowering, tachycardia, reluctance to work outside wire	2		
				C = fearful - detection failures	1		
				D = fearful of HMMWVs	1		
				E = fear of local nationals	1		
		2 = reactive, noise	4				
				A = sensitive to noise	1		
				B = fear of loud noises	3		
		3 = sexual	2				
				A = masturbation with self-trauma to penis	1		
				B = masturbation	1		
		4 = decreased work performance	7				
				A = moodiness, clumsiness, unwilling to work in heat	1		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				B = inability or unwilling to work	1		
				C = inability to perform			
				D = poor deployment performance			
				E = lack of interest in work			
				F = low drive			
				G = did not want to work	3		
				H = refuses to work around local nationals	1		
				J = cognitive dysfunction			
		5 = aggression	2				
				A = uncontrollable aggression			
				B = aggression			
				C = aggression progressed to uncontrollable	1		
				D = behavioral change from friendly to aggressive	1		
		6 = anxiety	2				
				A = anxious and destructive	1		
				B = barking when handler leaves tent; poss. separation anxiety	1		
		7 = stress	5				
				A = possible maladjustment to deployment environment	1		
				B = PTSD	3		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				C = combat stress	1		
C = Cardiac	6						
		1 = heart murmur	3				
		2 = cardiomegaly	2				
		3 = right-sided heart failure	1				
		4 = cardiac arrest					
		5 = decompensated dilated cardiomyopathy					
DH = Death	20						
		1 = anesthetic death	1				
		2 = died in theater	16				
		3 = euthanasia	1				
		4 = found dead in kennel					
		5 = other	2				
DM = Dermatologic	210						
		1 = nails	29				
				A = avulsed toenail	3		
				B = broken/fractured/cracked toenail	18		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				C = dry, cracked nail beds	2		
				D = nail bed infection	1		
				E = torn dewclaw	4		
				F = chewing at pads/feet	1		
		2 = nose	4				
				A = hyperkeratosis of skin at nose edge	1		
				B = nasal dermatitis	1		
				C = ulcerative rhinitis	1		
				D = crusted	1		
		3 = pads	10				
				A = crack/fissure	4		
				B = dry pads	1		
				C = peeling	2		
				D = blistered	1		
				E = avulsed	2		
		4 = skin	167		1		
				A	15		
						A1 = abscess	5
						A2 = folliculitis; chin	1
						A3 = pyoderma	9
				B = alopecia	10	unspecified	5
						B1 = alopecia; forelimb	1
						B2 = alopecia around eyes	2

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						B3 = alopecia due to shock collar	1
						B4 = alopecia and crusting	1
				C = perianal region	17		
						C1 = anal glands; impacted	10
						C2 = anal glands; infected	4
						C3 = anal irritation	2
						C4 = licking rectum	
						C5 = anal gland; ruptured	1
				D = atopy	6		
				E = reproductive	7		
						E1 = balanitis	1
						E2 = blood by prepuce, penis	2
						E3 = chewing on penis	1
						E4 = enlarged teat	1
						E5 = sheath infection	1
						E6 = balanoposthitis (swollen penis)	1
				F = unspecified	4		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						F1 = cellulitis	1
						F2 = itching	3
				G = dermatitis	55		
						G1 = dermatitis; chronic allergic	1
						G2 = dermatitis; collar area	2
						G3 = dermatitis; contact	2
						G4 = dermatitis; right carpus	
						G5 = dermatitis; preputial	1
						G6 = dermatitis	12
						G7 = dermatitis; lip fold	2
						G8 = dermatitis; painful, scaling	1
						G9 = dermatitis; scrotal	27
						G10 = hot spots	3
						G11 = pododermatitis	4
				H = draining tract, chronic	1		
				K	11		
						K1 = dry skin	7
						K2 = roughened hair coat	1
						K3 = seborrhea sicca	1

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						K4 = tenderness and erythema	2
				M = cyst	3		
						M1 = epidermal inclusion cyst	
						M2 = inclusion cyst	1
						M3 = cyst, bleeding	1
						M4 = cyst, infected	1
				N = lump	25		
						N1 = lump; right rear paw	1
						N2 = lump	3
						N3 = plasmoma	
						N4 = sebaceous cyst	15
						N5 = small lumps; ear and cranial elbow	1
						N6 = lump on chest	2
						N7 = lump on eyelid	1
						N8 = lump on chin	1
						N9 = skin tag, shoulder	1
				P = pressure lesions	5		
						P1 = hygroma; elbow	3

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						P2 = pressure callouses; infected	1
						P3 = pressure sore with secondary bacterial infection	1
				R = tail base excoriation	1		
				T = lick granuloma	4		
				V = skin on lips swollen	1		
				W = sore			
						W1 = sore on chest	
						W2 = sore under lip	1
EN = Endocrine							
EX = Exposure - Dehydration	4						
GH = Gastrohepatic	262						
		1 = gastrointestinal	215	frequent stools	1		
				A = stress colitis	19		
				B = diarrhea	80		
						B1 = diarrhea; without blood	61
						B2 = diarrhea; without blood; chronic	2

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						B3 = diarrhea; with blood	17
				C = hemorrhagic gastroenteritis	6		
				D = hematochezia	7		
				E = straining to defecate/tenesmus	3		
				F = exocrine pancreatic insufficiency; controlled	1		
				G = fecal incontinence			
				H = foreign body	4		
						H1 = foreign body ingestion; ate cold pack	1
						H2 = foreign body ingestion; gastric	1
						H3 = foreign body ingestion; hair	1
						H4 = foreign body ingestion; two tennis balls	1
				K = toxin ingestion	6		
						K1 = toxin ingestion; C4	1
						K2 = toxin ingestion; ethylene glycol	1
						K3 = toxin ingestion; pyrethrin	1

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						K4 = toxin ingestion; RDx explosive	1
						K5 = toxin ingestion; Rimadyl, doxycycline, Motrin overdose	1
						K5A = toxin ingestion; Rimadyl overdose	1
				M = GDV	1		
				N = rectal polyp	1		
				P = vomiting or regurg, +/- diarrhea	66		
						P1 = regurgitation	1
						P2 = vomiting	38
						P3 = vomiting and diarrhea	26
						P4 = vomiting blood	1
				R** = anorexia and decreased appetite	20		
						R = anorexia	14
						R1 = decreased appetite	6
				S = ulcer or perforation			
						S1 = gastric ulcers	

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						S2 = intestinal perforation	
				T = hepatic insufficiency			
		2 = oral	47	sore mouth	1		
				A = broken tooth	34		
						A1 = broken tooth; canine	23
						A2 = broken tooth	11
				B = dental procedure	7		
						B1 = dental	2
						B2 = root canal	5
				C = missing incisor	1		
				D = severe dental disease; calculus, gingivitis, halitosis	1		
				E = tooth root abscess	2		
				F = bit tongue			
				G = gingival laceration	1		
HC = Hematologic; chemistry	2						
		1 = hematologic					
				A = eosinophilia	1		
				B = lymphocytosis	1		
				C = thrombocytopenia			
		2 = chemistry		increased ALT			
HT = Heat injury	16						

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
		1 = not specified	8				
		2 = heat casualty	6				
		3 = heat intolerance					
		4 = left in vehicle in 100-115 F heat	1				
		5 = exertional hyperthermia	1				
IM = Immunologic	3						
		1 = drug allergy; sulfa drugs	1				
		2 = lymph nodes	2				
				A = enlarged lymph node; popliteal	1		
				B = enlarged lymph node	1		
		3 = polyarthropathy; immune-mediated					
MC = Miscellaneous	80						
		1 = bite quarantine	13				
		2 = collapse	3				
				2A = collapse	2		
				2B = collapse with sudden death	1		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
		3 = cries/whines when lifted	1				
		4 = decreased tolerance to heat	1				
		5 = exercise intolerance	1				
		6 = change in weight	18	underweight	1		
				A1 = failure to gain weight	1		
				A2 = weight loss	11		
				B = overweight	5		
		7 = change in physical behavior	17				
				A = lethargy/weak/fatigue	12		
				B = not acting right - cyanotic tongue - polydipsia	1		
				C = slowing down/decreased stamina	4		
		8 = ocular and nasal discharge	1				
		9 = painful abdomen	1				
		10 = contact with stray	1				
		11 = pyrexia	2				
		12	9				
				12A = reluctant to stand	1		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				12B = unwilling to jump or climb or hup	8		
		13 = runs into walls					
		14 = bilateral perineal hernias					
		15	3				
				15A = biting at left arm	1		
				15B = bothering right hip	1		
				15C = licking leg	1		
		16 = swelling groin area	1				
		17 = umbilical hernia	2				
		18 = epistaxis					
		19 = shaking head	2				
		20 = peritonitis					
		21 = shaking head; cause unknown	2	unspecified	1		
				21A = head tilt	1		
		22 = swelling left front paw	1				
		23 = suture removal	1				
ME = Med Evac'd	12						
MS = Musculoskeletal	139						

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
		1 = appendicular	120				
				A = abnormal gait	3		
				D = stifle	2		
						D1 = stifle; CCL rupture	1
						D2 = stifle; instability	1
				E = DJD	6		
						E1 = DJD; coxofemoral	4
						E2 = DJD; left tarsus	1
						E3 = DJD; stifle	1
						E4 = DJD; elbows	
				F = grade 1 patellar luxation	1		
				G = hips	5		
						G1 = hip dysplasia	1
						G2 = pain; hips	4
				K = foot	2	osteomyelitis; left front fourth digit	1
						K1 = painful feet	
						K2 = swollen digit	1
				M = limb lameness, pain, or stiffness	101		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						M1A = lameness; all limbs; acute	
						M1B = lameness; all limbs; intermittent	1
						M1C = lameness; all limbs; chronic	
						M2 = lameness; hindlimbs	13
						M2B = lameness; front limbs	
						M3A = lameness; left front	14
						M3B = lameness, left hind	20
						M4A = lameness; right front	17
						M4B = lameness; right hind	21
						M5 = lameness; shifting leg	1
						M6 = lameness; unspecified	9
						M7 = stiffness - hindlimbs	3

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
						M8 = pain; right proximal tibia	1
						M9 = lameness; severed tendon	
						M10 = pain; midshaft left femur	1
		2 = axial	7				
				A = pain; lumbar	4		
				B = pain; base of tail	2		
				C = tail; broken	1		
		3 = miscellaneous	10				
				A = multi-joint arthritis	1		
				B = muscle atrophy	1		
				C = osteoarthritis	1		
				D = soft tissue injury	7		4
						D1 = soft tissue injury; carpus	2
						D2 = soft tissue injury; shoulder	1
						D3 = soft tissue injury; neck	
		4 = muscular	2				
				A = fibrotic myopathy of the gracilis and semitendinosus			
				B = gracilis contracture			
				C = muscle strain	2		
N = Neoplasia	33						

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
		1 = anaplastic carcinoma with metastases	1				
		2 = apocrine gland adenocarcinoma with metastases					
		3 = benign	3	unspecified	2		
				A = lipoma	1		
		4 = hemangiosarcoma	4				
				A = heart	2		
				B = liver	1		
				C = lung	1		
				D = spleen			
		5 = hemoabdomen; bleeding masses on liver					
		6 = infundibular keratinizing acanthoma	1				
		8 = lymph nodes	1				
				A = lymphoma			
				B = lymphosarcoma	1		
		9 = mass	21	unspecified	2		
				A = gastric			
				B = interdigital	3		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				C = left axilla	1		
				D = anus or rectum	4		
						D1 = perianal	2
						D2 = rectal	2
				E = right proximal axilla	2		
				F = subcutaneous	2		
						F1 = subcutaneous; right lateral scapular area	1
						F2 = subcutaneous; sternum	1
				G = tail	1		
				H = hip	1		
				J = back	1		
				K = mouth	1		
				M = right lateral abdomen	1		
				N = neck	1		
				P = carpus	1		
		10 = melanoma					
		11 = nasal carcinoma; probable olfactory neuroblastoma					
		12 = oral fibrosarcoma					

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
		13 = proliferative bony mass; left distal femur					
		14 = prostate neoplasia					
		15 = round cell tumor; foot	1				
		16 = ruptured splenic mass					
		17 = squamous cell carcinoma	1				
		18 = unresectable lesion small intestine - severe peritonitis					
OP = Ophthalmic	25						
		1 = cataracts	2				
		2 = chemosis, scleral hemorrhage	2				
		3 = conjunctiva	2				
				A = conjunctivitis	2		
				B = inflamed third eyelid; prob due to sand storm			
		4 = cornea	3				
				A = abrasion	2		
				B = scratch	1		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
		5 = growth in eye	1				
		6 = meibomian gland cyst; upper right eyelid	1				
		7 = nuclear sclerosis	1				
		8 = ocular discharge	5	unspecified	1		
				A = mucopurulent	2		
				B = from dust	2		
		9 = OD proptosis	1				
		10 = pannus	4				
		11 = vision problems	2				
		12 = inflamed 3rd eyelid	1				
OT = Otic	90						
		1 = aural hematoma	12				
		2 = crusting scabs					
		3 = fly strike					
		4 = otitis	69	unspecified	1		
				A = externa	67		
				B = media	1		
				C = interna			

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
		5 = scaling and alopecia on distal pinnae	2				
		6 = sloughing inside of pinna	1				
		7 = dirty ears	4				
		8 = itchy ears	2				
P = Parasites	1						
		1 = fleas	1				
R = Respiratory	11						
		1 = allergic rhinitis	1				
		2 = cough	3				
		3 = hyperventilation/reverse sneezing	1				
		4 = laryngeal edema	1				
		6 = nasal discharge	1				
		7 = pneumonia	1				
		9 = sneezing	1				
		10 = snorting for 24 hours	1				
		11 = tracheal collapse when excited	1				
		12 = wheezing					

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
RT = Retired							
SB = Sent Back	5						
SN = Spinal cord/Neuro	38						
		1 = appendicular - neuro	27				
				A = collapsing on rear legs	1		
				B = dragging hind feet	3		
				C = hindlimb ataxia	2		
				CA = front limb ataxia	1		
				CB = hindlimb paralysis	1		
				D = weakness of limbs	7		
				E = cp deficits	4		
				F = hindlimb paresis	1		
				G = LS disease	7		
		2 = axial	4				
				A = cervical injury	1		
				B = DJD; spine			
				C = IVDD			
				D = LS stenosis	1		
				E = spondylosis	1		
				F = LS laxity	1		
		3 = degenerative myelopathy					
				A = degenerative myelopathy; confirmed by DNA test			

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				B = degenerative myelopathy			
		4 = Horner's syndrome	1				
		5 = left facial nerve paralysis					
		6 = right forebrain lesion	1				
		7 = seizures	5				
				A = post-mortar/RPG attack	1		
				B = seizures	4		
T = Trauma	194						
		1 = insect/reptile bite	8	unspecified	2		
				A = arthropod bite	2		
				B = insect bites	4		
				C = snake bite			
		2 = dog/cat bite/unknown	23				
				A = cat; bite wounds	2		
				B = dog; right maxilla bite wounds	1		
				C = dog fights; bite wounds	19		
				D = not specified; bite wounds	1		
		3 = laceration	67	unspecified	6		
				A = left lower eyelid	3		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				B = foot	11		
				C = nose	3		
				D = pads	17		
				E = face	4		
				F = lip	2		
				G = multiple	2		
				H = prepuce	1		
				J = ears	5		
				K = leg	11		10
						K1 = severed tendons in leg	1
				M = shoulder	2		
		4 = ran into fence (epistaxis)	1				
		5 = fell	1				
				A = fell from 2nd story through the 1st floor	1		
				B = fell into pit; bruised tail			
		6 = inhalation	3				
				A = exposed to hydrogen disulfide gas	1		
				B = smoke inhalation	2		
		8 = hit head	2				
		9 = hit in eye by buttstock of saw	1				
		10 = blast injuries	17				
				A = IED blast	6		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				B = shrapnel	3		
						B1 = shrapnel; splenectomy, jejunal resection and anastomosis	1
						B2 = shrapnel; left metatarsal	1
						B3 = shrapnel; liver and stomach	1
				C = grenade blast	2		
				D = hearing loss	6		
						D1 = hearing problems; post-IEDs	1
						D2 = temporary deafness (30 min) post explosion	1
						D3 = TM rupture; due to explosive blasts	3
						D4 = intermittant hearing loss after loud noises	1
		12 = killed in action	15	unspecified	1		
				A = electrocution	1		
				B = grenade blast	2		
				C = gunshot wound(s)	6		
				D = IED blast	2		

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				E = smoke inhalation	1		
				F = intrathoracic hemorrhage from fall	1		
				G = suicide bomber	1		
		13 = puncture wound	4	leg wound	1		
				A = right frontal sinus			
				B = hind feet; with abscesses	1		
				C = right hock	1		
				D = left front foot	1		
		15 = vehicle accident	2				
				A = thoracic hemorrhage - internal injuries; hit by vehicle	1		
				B = in vehicle during accident	1		
		16 = burns	2	unspecified	1		
				A = pads	1		
		17 = abrasions	24	unspecified	2		
				A = pads	16		
				B = eye	1		
				C = inner thigh	1		
				D = paw	2		
				E = penis	1		
				F = face	1		
		18 = bruising	3				

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
		19 = foreign body	4				
				A = glass in front foot	1		
				B = tar stuck to skin or feet	1		
				C = tar stuck to rear limbs and tail	1		
				D = f.b. in left front paw	1		
		20 = trauma	9	unspecified	2		
				A = tail tip	7		
		21 = gunshot wound	8	KIA-unspecified	6		
				A = thorax	1		
				B = shoulder	1		
UG = Urogenital	47						
		1 = blood in ejaculate	1				
		2 = urine abnormalities	15				
				A = crystalluria	1		
				B = dark urine	2		
				C = hematuria	8		
				D = hemoglobinuria	1		
				E = proteinuria	3		
		3 = urinary tract	3	unspecified	1		
				A = cystitis	1		
				B = urinary tract infection	1		
		4 = genitals	6				

Category	# of events by Category	Subcategory	# of events by Subcategory	Specific	# of events by Specific	Specific Subcategory	# of events by Specific Subcategory
				A = enlarged testicle	1		
				B = neuter	3		
				C = orchitis	1		
				D = swollen scrotum	1		
		5 = dysuria	6				
		6 = prostate	12				
				A = enlarged prostate/BPH	7		
				B = prostatic abscess	1		
				C = prostatitis	2		
				D = prostatitis; stranguria	1		
				E = prostatic cysts	1		
		7 = hemorrhagic penile discharge	2				
		8 = uroabdomen - ruptured bladder					
		9 = polyuria	2				
V = Veterinarian	10						
		1 = no show for vet appointment	1				
		2 = not seen by vet	8				
		3 = unable to get to veterinarian	1				

Gender Coding:

1	Male Intact
2	Male Castrated
3	Female Intact
4	Female Spayed

Breed Coding:

1	Belgian Malinois
2	German Shepherd
3	Dutch Shepherd
4	Labrador Retriever
5	Belgian Tervuren
6	Golden Retriever
7	Malinois/German Shepherd Mix
8	Vizsla
10	German Shorthaired Pointer
11	Springer Spaniel
99	Other

Branch of Service Coding

1	U.S. Army
2	U.S. Air Force
3	U.S. Navy
4	U.S. Marine Corps

Duty Certification Coding

1	Patrol only
2	Narcotic only
3	Explosive only
4	Patrol/Narcotic
5	Patrol/Explosive
6	Mine detection
7	Specialized Search
8	Combat Tracker
9	Training Aid
14	IEDD (IED Detection)
15	Unknown
99	Other

Appendix F: Possible Eligibles Identified from Databases and Notebook

TATTOO	NAME	DEPLOYMENT LOCATION
A012	Dax	Iraq
A016	Apol	Iraq
A018	Nessy	OIF
A021	Nick	Iraq
A037	Ringo	Iraq
A039	&Killi	Iraq
A040	X*Sonya	Iraq
A040	Sonya	Iraq
A054	*Rico Sr.	Undisclosed
A061	Max	Iraq
A062	*Edo	SWA
A065	Jocco	Iraq
A071	Harkos	Iraq
A072	Kim	Iraq
A076	Cash	Iraq
A100	Cantor	Iraq
A104	Liz	Iraq
A105	Anouska	Iraq, Ft. Suse
A113	Lucky	Iraq
A120	Benny	Iraq
A123	Ranny	Iraq
A128	Roy	Iraq
A140	Carlo	Iraq
A142	Dusty	Iraq
A153	Kastor	Iraq
A155	Frenke	Iraq
A159	Bado	Iraq
A161	Woodan	Iraq
A164	Aldo	Iraq
A167	Johnny	Iraq
A169	Loy	Iraq
A211	Kazan	Iraq
A218	Pancho	Iraq, Balad
A219	Hexe	Iraq
A231	Joep	Middle East
A237	&Tarzan	Iraq
A244	Rex	SWA
A247	Fonda	Iraq
A259	Bruno	Iraq, Kirkuk
A264	*Ajax	Iraq
A271	Eros	Iraq
A277	Este	Iraq
A287	Art	Iraq
A290	*Aron	Mid East

TATTOO	NAME	DEPLOYMENT LOCATION
A295	Rex	Iraq
A296	Louis	Iraq
A311	Alfons	Iraq
A315	Jan	Iraq
A316	*Bony	Middle East
A317	Nik	SWA
A320	Dag	OIF
A321	Ajax	Iraq, Balad
A322	Chico	Iraq, Tallil
A325	Rex II	Iraq, Baghdad
A334	Dasty	Iraq
A341	*Loba	SWA
A342	*Baro	SWA
A343	Bak	Iraq
A344	Oscar	Iraq
A345	Teso	Iraq
A346	*Loeki	undisclosed
A349	Danny	Iraq
A352	Jury	OIF/OEF
A360	&*Rico	Iraq
A371	Kelli	Iraq
A372	Astra	Iraq
A376	*Berry	SWA
A381	Art	OIF
A382	Dino	Iraq
B003	Rosco	Iraq
B006	Falko	SWA
B010	Jock	Iraq
B014	Boris	Iraq
B016	Duc	OIF
B018	Ringo	Iraq
B021	Joop	Iraq
B022	Baddy	Iraq, Kirkuk or Baghdad
B023	*Castor	undisclosed
B027	*Sonja	Iraq, Baghdad
B029	Bree	Iraq
B030	Jacco	Iraq, Kirkuk
B032	Rexie	Iraq
B036	Bepo	Iraq
B039	*Duck	trng in LV then deploying
B041	Billy	Iraq
B042	Rocky	Iraq
B047	Houby	Iraq, Baghdad
B050	Joost	Iraq, Tallil
B053	*Dino	OIF

TATTOO	NAME	DEPLOYMENT LOCATION
B054	Amber	Iraq
B056	Britt	SWA
B067	Max	SWA
B079	Katy	Iraq, Mosul
B083	*Ringo	undisclosed
B089	Black	Iraq
B091	Carlos	Iraq
B095	Jimmy	Iraq
B102	&Sarbon	Iraq
B104	Imo	Iraq
B106	Rocky	Iraq
B107	Britt	Iraq, Kirkuk
B108	Freddy	Iraq
B111	Beny	Iraq
B116	Paco	Iraq
B123	Cassidy	Iraq
B127	*Marco	undisclosed
B131	*Dino	SWA
B135	Rex	Iraq
B142	Breston	Iraq, Tikrit
B143	Avar	Iraq
B144	Berry	Middle East
B149	Sorbon	Iraq
B150	*Duco	Middle East
B157	Tico	Iraq, Baghdad Int'l Airport
B159	Duuk	Iraq
B164	Arno	Iraq
B168	*Alex	undisclosed
B171	*Goof	desert
B178	*Brit	SWA
B190	Ben	Iraq, Kirkuk
B194	Rudy	Iraq
B201	Marcy	Iraq, Baghdad
B217	*Gabriel	undisclosed
B218	&Michael	Iraq
B222	Jack	Iraq
B228	*Kato	undisclosed
B231	Dan	Iraq
B233	Rex	Iraq
B234	Zorro	Iraq
B239	Cesar	Iraq
B249	Gizmo	Iraq
B253	Buddy	Iraq
B256	Ingus	Iraq, Camp Victory
B263	*Bak	SWA

TATTOO	NAME	DEPLOYMENT LOCATION
B266	Kisma	Iraq
B279	Laika	Iraq
B282	Tosca	Iraq
B291	*Cindy	Iraq
B294	*Uvarted	unknown
B295	Chloe	Iraq
B297	Sindy	Iraq, Camp Buca
B303	Ari	Iraq
B310	Max	Middle East
B314	Kwinto	Iraq
B318	Cezar	Iraq, Baghdad
B331	Eddo	Iraq
B337	Dingo	Iraq, Baghdad
B339	Bord	Iraq
B346	Aldo	Iraq, Baghdad
B349	Polo	Iraq
B355	Kendo	Iraq
B359	Jacky	Iraq
B361	&Alan	Iraq
B363	Akki	Iraq
B364	Dino	Iraq
B367	*Bruno	Iraq
B369	Ludo	Iraq, Mosul
B373	Bono	Iraq
B374	Goldi	Iraq
B377	*Basco	undisclosed
B383	Dak	Iraq
B384	Tina	Iraq
B385	Tekky	Iraq
C003	Max	Iraq
C005	Irk	OIF
C013	Rudy	Iraq
C024	Akok	Iraq
C025	&Ajax	Iraq, Baghdad
C026	Alan	Iraq
C030	Athos	Iraq, Baghdad
C038	Ricky	Iraq
C039	Torro	Iraq
C045	Rocky	Iraq
C046	*Blacky	SWA
C049	Fido	Iraq
C058	*Aaslan	undisclosed
C067	Dexter	Iraq
C072	Bojar	Iraq
C079	Rico	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
C084	Kai	Iraq
C086	Bonnie	Iraq
C098	Apoll	Iraq
C100	Breston	Iraq, Kirkuk
C101	*Arko	undisclosed
C107	Benny	Iraq
C109	Nicky	Iraq
C110	*Tony	undisclosed
C113	Dac	OIF
C118	Benny	Iraq
C120	Petty	Iraq, Kirkuk
C123	Ceaser	Iraq
C126	Benny	Iraq
C130	Dino	Iraq
C131	Rex I	Iraq, Kirkuk
C138	Bak	OIF
C142	Aiko	Iraq
C143	Ringo	Iraq
C148	Rio	Iraq
C153	Basco II	Iraq, Kirkuk
C155	Fellow	Iraq
C156	Alan	Iraq, Kirkuk
C157	*Rex II	SWA
C159	Ajax	Iraq, Kirkuk
C160	Ben	Iraq, Kirkuk
C161	Tommie	Iraq
C175	Rocky	Iraq
C179	Aldo	Iraq
C184	Tasja	Middle East
C189	Rody	Iraq
C191	Kimba	Iraq, Kirkuk
C198	Nero	Iraq, Kirkuk
C200	Zuro	Iraq
C205	*Gino	undisclosed
C207	Dutchy	Iraq, Kirkuk
C211	Rocco	Iraq, Kirkuk
C216	*Ronny	undisclosed
C230	*Rocky	SWA
C232	Brent	Iraq
C233	*Dino	Middle East
C234	Jecky	Iraq, Baghdad
C235	Baro	Iraq
C239	Kelly	Iraq, Kirkuk
C241	Rita	Iraq, Kirkuk
C252	Rico	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
C258	Uran	Iraq
C260	Chyba	Iraq
C264	Harris	Iraq
C270	Hard	Iraq
D001	King	Iraq, Baghdad
D006	Aron	Iraq, Mosul
D009	Bobby	Iraq
D012	Rex	Iraq
D018	*Rexo	undisclosed
D019	*Bak	OIF
D024	Global	Iraq
D030	Dak	Iraq
D031	Bbrandt	Iraq, Tallil
D033	Ralf	SWA
D035	Rebel	Iraq
D043	Cchyna	Iraq
D045	Tino	Iraq, Baghdad
D046	Rico	Iraq, Baghdad
D049	Lucky	Iraq
D050	Erwin	Iraq
D053	Caly	SWA
D055	*Matsy	Iraq
D057	Basco	Iraq
D058	*Jordan	OIF/OEF
D059	*Brit	SWA
D060	Paco	Iraq, Baghdad
D063	Cierney	Iraq
D067	Dany	Iraq
D068	Edo	Iraq, Kirkuk
D070	Python	Iraq
D079	*Riki	OEF
D098	*Nero	undisclosed
D099	Boetzo	Iraq
D101	*Kai	undisclosed
D102	Linda	Iraq
D104	Ramo	Iraq
D105	*Bart	SWA
D108	Marco	Iraq
D114	Marco	Iraq
D116	*Gino	undisclosed
D119	Ben	Iraq
D126	Blacky	Iraq
D131	Robby	SWA
D132	Ori	Iraq
D135	Pascha	SWA

TATTOO	NAME	DEPLOYMENT LOCATION
D141	*Brix	Iraq
D142	Don	OIF
D150	Argo	Iraq, Kirkuk
D151	Gaston	Iraq, Mosul
D154	Ronny	OIF
D155	Alf	Iraq
D163	Lea	Iraq
D166	Kim	OIF
D167	Bodie	Iraq
D171	Hasso	Iraq
D175	Yossi	Iraq
D188	Rexo	Iraq
D190	*Dago	OIF
D191	*Bad	undisclosed
D205	Tarzan	undisclosed
D207	Charlie	Iraq
D208	Masizo	Iraq
D210	Chang	Iraq
D211	Rik	Iraq
D212	Rex	Iraq, Baghdad
D214	Ddamion	Iraq
D226	Eesau	Iraq
D236	Aris	Iraq
D237	*Dago	Middle East
D239	Cak	Iraq
D240	Rex	Iraq
D241	Kevin	Iraq
D242	Ayke	Iraq, Kirkuk
D243	Sheryl	Iraq
D244	*Rek	OIF
D245	Appie	Iraq
D249	Rex	Iraq
D253	Ben	Iraq
D255	Ano	Iraq
D256	Mike	Iraq
D257	*Nero	Iraq
E001	*Rico	OEF
E016	Lukie	Iraq
E019	Jacco	Iraq
E020	*Allan	SWA
E021	Basco II	Iraq, Tallil
E024	Cedo	Iraq (OIF)
E026	Raudi	Iraq, Kirkuk
E028	Kenny	Iraq
E029	Gas	Iraq, Al Asad

TATTOO	NAME	DEPLOYMENT LOCATION
E030	*Monty	SWA
E035	Six II	Iraq
E039	Borris	Iraq
E044	Dino	Iraq, Kabul
E045	Ganny	Iraq
E049	Eddy	Iraq
E050	Santo	Iraq
E055	Rocky	Iraq
E058	*Robby	SWA
E061	Kevin	Iraq, Tallil
E069	Bronx	Iraq
E070	Bruno	Iraq
E071	Laika	SWA
E072	Cassie	Iraq
E073	Tanja	Iraq
E075	Bodie	Iraq
E076	Cven	Iraq
E078	*Rhonda	undisclosed
E084	Irina	Iraq
E090	*Bad	Middle East
E091	Benn	Iraq
E095	Bak	Iraq
E096	Cesar	Iraq, Teleel AFB
E097	Aladar	Iraq
E101	Riki	Iraq
E102	*Rokka	SWA
E103	Zasko	Iraq
E105	Rocki	Iraq, Balad
E110	Rex	Iraq
E111	Aris	SWA
E112	Nouska	Iraq
E113	&Marko	Iraq
E114	Goro	Iraq
E116	Cliff	Iraq, Kirkuk
E117	Dodo	Iraq
E119	Rocko	Iraq
E129	*Zento	undisclosed
E132	Lex	Iraq
E133	*Rony	undisclosed
E137	Nick	Iraq
E138	Gudy	Iraq
E142	Mongo	Iraq
E145	Rogue	Iraq, Baghdad
E146	Salli	Iraq
E148	Perro	Iraq, Baghdad

TATTOO	NAME	DEPLOYMENT LOCATION
E150	Yuma	Iraq
E152	Irano	Iraq
E156	*Ronnie	undisclosed
E160	J.P.	Iraq, Kirkuk
E168	Rex	Iraq
E171	Harris	Iraq
E182	*Zorro	Iraq
E186	Ajax	Iraq
E191	Bad	Iraq
E192	Nero	Iraq
E193	Jack	Iraq
E205	Brit	OIF
E210	Buco	OIF/OEF
E211	Rex	Iraq
E217	*Blackie	Iraq
E221	Siro	Iraq
E222	Pate	Iraq
E223	Albert	Iraq, Baghdad
E225	Bosco	Iraq
E227	Tom	OIF
E228	Argo	Iraq
E235	Youry	Iraq
E238	Dak	Iraq
E239	*Rexo	Iraq
E242	*Mokus	undisclosed
E250	*Rudy	Middle East
E253	Endy	Iraq
E254	Cisko	Iraq
E257	Tina	Iraq, Baghdad
E258	Hanna	Iraq
E259	*Kera	SWA
E279	*Charlie	SWA
E285	Rita	Iraq
E286	Raiza	Iraq
E287	*Boda	undisclosed
E290	Spike	Iraq
E292	Cindy	OIF
E294	Charlie	Iraq, Tallil
E295	Brit	Iraq
E296	Nero	Iraq
E298	Prins	Iraq
E300	Rexo	Iraq
E302	Roy	Middle East
E304	Mido	Iraq
E307	Johnson	Iraq, Baghdad

TATTOO	NAME	DEPLOYMENT LOCATION
E308	*Ficko	SWA
E309	Natz	OIF
E310	*Veki	SWA
E311	Nero	Iraq
E313	Gordon	Iraq
E317	Rocco	Iraq
F000	*Frisko	SWA
F002	*Roby	SWA
F003	Jack	Iraq
F006	Dak	SWA
F009	GreK	Iraq
F012	Rex	Iraq
F013	Brix	Iraq
F016	*Rexo	OIF
F017	Anty	Iraq
F020	*Brutis	undisclosed
F030	Pocket	Iraq
F032	Karo	Iraq
F035	Chaky	Iraq
F039	Joy	Iraq
F050	Rambo	Iraq
F051	*Ben	undisclosed
F054	Rex	Iraq
F056	Sniper	Iraq
F062	Agar	Iraq
F064	Benni	Iraq
F065	Rex II	Iraq
F068	Brit	Iraq
F074	*Rex	SWA
F086	Sam	Iraq
F089	Ringo	Iraq
F092	Jack	Iraq
F094	Andy	OIF
F095	Sam	Iraq
F096	Chico	Iraq
F101	Rek	Iraq
F102	*Rex	Iraq, Baghdad
F112	*Joll	undisclosed
F114	Emax	Iraq, Tallil
F115	*Nero	SWA
F121	Gypsy	Iraq
F122	Luigi	Iraq
F124	Rick	Iraq, Baghdad
F125	*Rex	Iraq
F127	Spike	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
F135	Billy	Iraq
F142	Luca	Iraq, Kirkuk
F144	Sammy	Iraq
F145	Bernie	Iraq, Falujah
F158	Polly	Iraq
F159	Suzi	OIF/OEF
F160	Carla	Iraq
F162	*Barry	undisclosed
F168	Bimbo	Iraq
F172	Zita	OIF
F173	Vendy	Iraq
F175	Lucky	Iraq
F181	Rocky	Iraq
F183	*Brix	SWA
F185	Brit	Iraq
F186	Cezar	Iraq, Kirkuk
F195	*Gabber	SWA
F196	Fabian	Iraq
F198	Brik	Iraq
F202	Solo	Iraq
F209	Rexo	Iraq
F211	X*Ardy	Iraq
F212	Rex II	Iraq
F216	Bak	Iraq
F217	Dasty	Iraq
F218	Beny	Iraq
F227	Gris	Iraq
F233	Ali	Iraq
F237	*Rex 5	Iraq
F238	Kitt	Iraq, Baghdad
F239	Packo	Iraq
F241	*Max II	OIF
F249	*Rambo	SWA
F252	Cris	Iraq
F254	Kibo	Iraq
F258	Rico	Iraq
F263	Duko	Iraq
F264	Max	Iraq
F266	Boy	undisclosed
F280	Sara	Iraq
F281	*Zorby	undisclosed
F283	Max	Iraq
F284	Dasty	Iraq, Tallil AB
F285	Marco	Iraq
F286	Ziko	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
F287	Pele	Iraq
F289	Bono	Iraq
F291	Rex	Iraq
F292	King	Iraq
F298	Rony	Iraq
F299	Sando	SWA
F300	Aron	Iraq
F301	Bady	Iraq
F306	Chan	Iraq
F310	Black	Iraq
F311	Doran	Iraq, Tallil AB
F312	Bagir	Iraq
F334	*Dicky	undisclosed
F337	Carlos	SWA
F339	Bonnie	Iraq
F340	Fendy	Iraq
F344	Rex	Iraq
F348	*Luna	SWA
F349	Conny	Iraq
F350	Ajda	OIF
F367	Beny	Iraq
F369	Car	Iraq
F370	Dingo	Iraq
F371	*Deny	SWA
F374	Tommy	Iraq
F375	Kastor	Iraq
F377	Wodan	Iraq
F381	Flapoor	Iraq
F383	Art	OIF/OEF
F384	Lion	Iraq
F385	Cir	Iraq
F386	Eric	Iraq
F389	*Bleek	Iraq
F390	Duuk	OIF
F391	Fredi	Iraq
F393	Talley	Iraq
F395	*Tino	Iraq
F398	Rolf	Iraq
F402	Clara	OIF
F403	Misti	Iraq
F410	Buck	Iraq, Kabul
F411	*Liska	undisclosed
F412	Fada	Iraq
F415	Sonja	Iraq
F417	Boniface	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
F418	Roxy	SWA
F419	Elra	Iraq
F420	*Ara	undisclosed
F421	Uran	Iraq, Baghdad Int'l Airport
F422	Winni	Iraq
F423	Ajax	Iraq
F426	Ffax	Iraq
F429	Ffaust	Iraq
F430	Ffifteen	Iraq, Kirkuk
F433	Alma	Iraq
F436	Ffagan	Iraq
F445	Talon	Iraq
F451	*Baron	SWA
F456	Devyl	Iraq
F460	Boyke	Iraq
F462	Rex	Iraq
F464	Sany	Iraq, Mosul
F465	*Allen	undisclosed
F466	Max	Iraq
F467	Jimmy	Iraq
F469	Zito	Iraq
F471	Karlo	Iraq
F479	*Vasho	OEF
F484	Cezar	Iraq
F486	Tino	Iraq
F487	Benjo	Iraq, Mosul
F488	Caro	Iraq
F521	Amigo	Iraq
F527	Jannie	Iraq
F531	*Magnum	SWA
F533	Muro	Iraq
F543	*Panter	SWA
F544	Bico	OIF
F545	Jonny	Iraq
F547	Rony	Iraq, Baghdad
F550	Cora	OIF
F554	Rex 4	undisclosed
F559	*Rex	undisclosed
F560	Baro	Iraq
F570	Arik	OIF
F582	Tembo	Iraq
F583	Wandor	Iraq
F590	Argo	Iraq
F591	*Bad	undisclosed
F593	Telin	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
F599	Laika	Iraq
F605	Ggabbi	Iraq
F612	Dita	undisclosed
F617	Wita	Iraq
F618	*Janiss	undisclosed
F619	*Sabor	undisclosed
F620	*Lando	undisclosed
F621	Beast	Iraq
F632	Laika	Iraq
F714	Sam	Iraq
F715	Bruno	Iraq
F716	K-bar	Iraq
F726	Figo	Iraq
F727	Jay	Iraq
F728	Johnny	Iraq
F729	Star	Iraq
F730	Euro	Iraq
F731	Tigo	Iraq
F732	Hans	Iraq
F738	Pasha	Iraq
F739	Arko	Iraq
F740	Dina	Iraq
F741	Axel	Iraq
F742	Kiddy	Iraq
H000	*Riko	Iraq
H008	Hhart	Iraq (Eskan)
H012	*Hhendirx	undisclosed/ Dog Center?
H023	Cento	Iraq
H029	Zico	Iraq, Baghdad
H039	Igor	Iraq
H044	Ronnie	Iraq
H045	*Max	undisclosed
H049	*Rico	undisclosed
H051	Akim	Iraq
H055	Shaman	Iraq
H056	Ikka	Iraq
H061	Kitchy	Iraq
H063	Brit	Iraq
H064	Arco	Iraq
H066	*Puck	OEF
H067	Chef	Iraq
H073	Dasty	Iraq
H077	Hhope	Iraq, Baghdad
H100	*Beyco	undisclosed
H101	Gent	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
H103	iindy	undisclosed
H107	*Kamilka	undisclosed
H108	Diego	Iraq
H109	Ziko	Iraq
H111	Dingo	Iraq
H116	Alex	Iraq
H118	*Asko	Iraq
H126	Boxy	Iraq
H128	Matso	Iraq
H129	Lasso	OIF
H142	Rex	Iraq
H144	Dano	Iraq
H145	Buddy	Iraq
H146	Waldo	Iraq
H147	Kevin	Iraq
H153	*Bronco	undisclosed
H155	Rex	Iraq
H156	Harry	SWA
H159	Ruby	Iraq
H161	Suhaj	Iraq
H162	Rex	Iraq
H163	*Bady	undisclosed
H165	Horst	Iraq
H171	Rexo	Iraq
H176	Fama	Iraq
H177	Britta	Iraq
H178	Zissi	Iraq
H179	Keve	Iraq
H180	*Loeka	OEF
H182	*Mandy	undisclosed
H183	*Asta	SWA
H184	Jesa	Iraq
H187	Darra	Iraq
H188	Rita	Iraq
H199	*Blek	undisclosed
H202	Jjackson	Iraq
H203	Baiky	Iraq
H218	Alik	Iraq
H221	Jack	Iraq
H222	*Pluto	undisclosed
H223	Walker	undisclosed
H228	Waldo	Iraq
H242	Peet	SWA
H244	*Aron	Iraq
H245	Max	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
H246	*Hexa	undisclosed
H247	*Crock	Iraq
H248	Beny	Iraq
H251	Bodo	Iraq
H253	Bingo	OIF
H255	Les	Iraq
H257	*Argo	OEF
H259	Rex	Iraq
H260	*Crock	SWA
H261	Bodo	Iraq
H268	Cindy	Iraq
H272	*Barra	undisclosed
H275	Bancuk	undisclosed
H287	Jjaycee	OIF
H288	Eddy	Iraq
H289	*Blade	undisclosed
H302	Llaw	Iraq
H304	Llewis	Iraq
H306	*Gerco	undisclosed
H309	*Barasco	SWA
H311	Allan	Iraq
H314	*Andy	Iraq
H319	Becker	Iraq
H322	Blesk	Iraq
H327	Baro	Iraq
H330	Markava	Iraq
H333	Uli	Iraq
H334	Charlie	SWA
H338	Jet	Iraq
H346	Mike	Iraq
H347	Jago	Iraq
H348	Max	Iraq, Baghdad
H354	*Gerard	undisclosed
H358	Fons	Iraq (OIF)
H364	Tequila	Iraq
H366	*Dobo	Iraq
H374	Beri	Iraq
H377	Katja	Iraq
H385	*Mato	undisclosed
H388	Rico	Iraq
H395	Carlos	Iraq
J005	Alfa	Iraq
J006	Lesko	OIF
J022	Ito	Iraq
J030	Gory	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
J058	Arras	Iraq
J121	Judy	Iraq
J130	Sizi	Iraq
J134	*Drumo	undisclosed
J146	Rambo	Iraq, Kirkuk
J147	Renzo	Iraq
J148	Eros	Iraq
J154	Oscar	Iraq
J156	Cleo	Iraq
J158	Aja	Iraq
J159	Tosca	Iraq, Kirkuk
J161	Anka	SWA
J165	Cross	Iraq
J172	Nina	Iraq
J175	Mmattias	SWA
J180	Archie	Iraq
J182	Lucky	Iraq
J183	Xaro	OIF
J184	Dino	Iraq
J198	Haro	Iraq
J212	Haryk	Iraq
J225	Black	Iraq
J234	Milo	Iraq
J237	Bingo	undisclosed
J238	Buli	Iraq
J239	Bratling	Iraq
J253	Gero	Iraq
J254	*Baron	Iraq
J261	*Kimbo	Unknown
J262	Sped	Iraq
J267	*Benson	SWA
J271	Sam	Iraq
J272	Woody	Iraq - MIA
J273	Brogi	Iraq
J288	Oolivia	UAE or Iraq
J291	*Era	Iraq
J292	Nora	Iraq
J298	Gino	Iraq
J304	Schester	Iraq
J327	Dasti	Iraq
J340	Sakal	Iraq
J341	Tim	Iraq
J344	Blacky	Iraq
J345	*Fanny	undisclosed
J346	*Candy	undisclosed

TATTOO	NAME	DEPLOYMENT LOCATION
J351	*Roy	undisclosed
J382	Rex	Iraq
J385	Diego	Iraq
J387	*Ranger	Iraq
J400	*Charly	Iraq
J427	Lucy	Iraq
J433	Brenda	Iraq
J439	Ted	Iraq
J458	*Rex	Iraq, Baghdad
J463	*Doki	Iraq
J515	Cara	Iraq
J535	Ace	Iraq
J538	*Gretchen	Iraq
K005	*Alf	Iraq
K006	Cak	Iraq
K024	*Cumings	Iraq
K026	Eddie	Iraq
K041	Bruce	Iraq
K062	*Rony	undisclosed
K073	Ellis	Iraq
K080	*Fibi	Iraq
K087	*Body	Iraq
K152	*Flyer	undisclosed
K153	Gabe	Iraq
K154	*Cooper	Iraq
K165	*BJ	Iraq
K217	*Jack	Iraq
K224	*Yyasmin	Iraq
K242	*Canelo	Iraq
K243	*Lola	Iraq
K244	*Taser	Iraq
K500	*Joesie	Iraq
K501	*Cann	Iraq
K502	*Clay	Iraq
K503	*Boss	Iraq
K504	*Pearl	Iraq
K505	*Turbo	Iraq
K506	*Daisy	Iraq
K507	*Trouble	Iraq
K508	*Thor	Iraq
Not listed	*Jordan	OIF
X036	*Jaco	SWA
X098	&Dax	Iraq
X098	Dax	Iraq
X140	Cindy	Iraq

TATTOO	NAME	DEPLOYMENT LOCATION
X154	*Bruno	SWA
X190	&Tosca	Iraq
Y004	&Rico	Iraq
Y020	*Zorro	Iraq
Y039	Basco	Iraq
Y098	*Bear	SWA
Y135	*Best	SWA
Y167	Cheeta	Iraq
Z048	Ricky	Iraq
Z056	*Ex	undisclosed
Z070	Terra	Iraq
Z071	Blesk	Iraq, Kirkuk
Z103	Tino	OIF
Z122	Allan	Iraq
Z133	Allan	Iraq
Z154	Rex	Iraq (OIF)
Z164	Rex	Iraq
Z167	Reno I	Iraq
Z188	&Elza	Iraq/SWA
Z193	Bayca	Iraq

Appendix G: Surveys of Possible Eligibles Returned From Field

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
A012	Dax	Iraq			
A016	Apol	Iraq			
A018	Nessy	OIF			
A021	Nick	Iraq		X	
A037	Ringo	Iraq	X		
A039	Killi	Iraq	X		
A040	Sonya	Iraq	X		
A061	Max	Iraq	X		
A062	Edo	Iraq	X		
A065	Jocco	Iraq	X		
A071	Harkos	Iraq	X		
A072	Kim	Iraq		X	
A076	Cash	Iraq	X		
A093	Blacky	Iraq	X		
A100	Cantor	Iraq	X		
A104	Liz	Iraq	X		
A105	Anouska	Iraq		X	
A113	Lucky	Iraq	X		
A120	Benny	Iraq	X		
A123	Ranny	Iraq	X		
A128	Roy	Iraq		X	
A140	Carlo	Iraq	X		
A142	Dusty	Iraq	X		
A153	Kastor	Iraq	X		
A155	Frenke	Iraq	X		
A159	Bado	Iraq	X		
A161	Woodan	Iraq	X		
A164	Aldo	Iraq			
A167	Johnny	Iraq			X
A169	Loy	Iraq		X	
A211	Kazan	Iraq	X		
A218	Pancho	Iraq		X	
A219	Hexe	Iraq	X		
A231	Joep	Afghanistan			X
A237	Tarzan	Iraq	X		
A244	Rex	SWA	X		
A247	Fonda	Iraq	X		
A251	Deny				
A256	Cezar	Kuwait			X
A259	Bruno	Iraq		X	
A264	Ajax	Iraq		X	
A269	Rex				X
A271	Eros	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
A277	Este	Iraq			
A287	Art	Iraq	X		
A290	Aron	Mid East			X
A295	Rex	Iraq	X		
A296	Louis	Iraq		X	
A311	Alfons	Iraq			
A315	Jan	Iraq			
A316	Bony	Afghanistan			X
A317	Nik	Iraq	X		
A318	Anita	Qatar			X
A320	Dag	OIF			
A321	Ajax	Iraq		X	
A322	Chico	Iraq			
A325	Rex II	Iraq	X		
A334	Dasty	Iraq			
A341	Loba	SWA			
A342	Baro	Iraq		X	
A343	Bak	Iraq	X		
A344	Oscar	Iraq	X		
A345	Teso	Iraq	X		
A346	Loeki	undisclosed			X
A348	Tasha				
A349	Danny	Iraq		X	
A352	Jury	Iraq	X		
A360	Rico	Iraq	X		
A371	Kelli	Iraq	X		
A372	Astra	Iraq	X		
A376	Berry	SWA		X	
A380	Leon				X
A381	Art	Iraq	X		
A382	Dino	Iraq		X	
B003	Rosco	Iraq	X		
B006	Falko	Iraq	X		
B010	Jock	Iraq			
B014	Boris	Iraq	X		
B016	Duc	Iraq	X		
B018	Ringo	Iraq	X		
B021	Joop	Iraq	X		
B022	Baddy	Iraq	X		
B023	Castor	undisclosed			
B027	Sonja	Iraq		X	
B029	Bree	Iraq	X		
B030	Jacco	Iraq			
B032	Rexie	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
B036	Bepo	Iraq	X		
B039	Duck	trng & deploying			X
B041	Billy	Iraq	X		
B042	Rocky	Iraq	X		
B047	Houby	Iraq	X		
B050	Joost	Iraq	X		
B053	Dino	OIF		X	
B054	Amber	Iraq			
B056	Britt	SWA	X		
B067	Max	SWA			
B068	Endy	Iraq		X	
B079	Katy	Iraq			
B083	Ringo	undisclosed			X
B089	Black	Iraq	X		
B091	Carlos	Iraq	X		
B095	Jimmy	Iraq		X	
B102	Sarbon	Iraq			
B104	Imo	Iraq		X	
B106	Rocky	Iraq	X		
B107	Britt	Iraq	X		
B108	Freddy	Iraq	X		
B111	Beny	Iraq		X	
B116	Paco	Iraq		X	
B123	Cassidy	Iraq		X	
B127	Marco	undisclosed			X
B131	Dino	Iraq	X		
B135	Rex	Iraq	X		
B142	Breston	Iraq	X		
B143	Avar	Iraq		X	
B144	Berry	Middle East	X		
B149	Sorbon	Not Iraq			X
B150	Duco	Kuwait			X
B155	Bram		X		
B157	Tico	Iraq	X		
B159	Duuk	Iraq			X
B164	Arno	Iraq	X		
B168	Alex	Not Iraq			X
B171	Goof	desert		X	
B178	Brit	Iraq		X	
B190	Ben	Iraq	X		
B194	Rudy	Iraq		X	
B201	Marcy	Iraq	X		
B217	Gabriel	undisclosed	X		
B218	Michael	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
B222	Jack	Iraq	X		
B228	Kato	Iraq		X	
B231	Dan	Iraq			
B233	Rex	Iraq	X		
B234	Zorro	Iraq	X		
B237	Duko			X	
B239	Ceasar		X		
B241	Jacky		X		
B246	Carlo		X		
B249	Gizmo	Iraq		X	
B253	Buddy	Iraq			
B256	Ingus	Iraq	X		
B263	Bak	SWA		X	
B266	Kisma	Iraq	X		
B278	Ricky			X	
B279	Laika	Iraq		X	
B282	Tosca	Iraq	X		
B291	Cindy	Iraq			
B294	Uvarted	unknown		X	
B295	Chloe	Iraq	X		
B297	Sindy	Iraq	X		
B303	Ari	Iraq	X		
B310	Max	Iraq	X		
B314	Kwinto	Iraq	X		
B318	Cezar	Iraq	X		
B331	Eddo	Iraq		X	
B337	Dingo	Iraq	X		
B339	Bord	Iraq	X		
B346	Aldo	Iraq			
B349	Polo	Iraq	X		
B355	Kendo	Iraq			
B357	Basco				X
B359	Jacky	Iraq	X		
B361	Alan	Iraq	X		
B363	Akki	Iraq	X		
B364	Dino	Iraq	X		
B367	Bruno	Iraq	X		
B369	Ludo	Iraq		X	
B373	Bono	Iraq			X
B374	Goldi	Kuwait/Bahrain			X
B377	Basco	Iraq	X		
B383	Dak	Iraq			X
B384	Tina	Iraq		X	
B385	Tekky	Iraq			

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
B386	Senta	Iraq	X		
C003	Max	Iraq			X
C005	Irk	OIF	X		
C009	Brit				X
C013	Rudy	Iraq	X		
C024	Akok	Kuwait			X
C025	Ajax	Iraq	X		
C026	Alan	Iraq	X		
C030	Athos	Iraq		X	
C038	Ricky	Iraq	X		
C039	Torro	Iraq		X	
C045	Rocky	Iraq			
C046	Blacky	SWA	X		
C049	Fido	Iraq	X		
C052	Lion	Iraq		X	
C058	Aaslan	undisclosed		X	
C061	Bo	Iraq	X		
C067	Dexter	Iraq		X	
C072	Bojar	Iraq	X		
C076	Dar-Garo			X	
C079	Rico	Iraq			X
C084	Kai	Iraq		X	
C086	Bonnie	Iraq		X	
C097	Rexo		X		
C098	Apoll	Iraq	X		
C100	Breston	Iraq	X		
C101	Arko	Iraq	X		
C103	Ringo	Iraq	X		
C103	Ringo				
C107	Benny	Iraq	X		
C109	Nicky	Iraq			
C113	Dac	Iraq	X		
C115	Jampy				X
C116	Ordy				
C118	Benny	Iraq			
C120	Petty	Iraq	X		
C123	Ceaser	Iraq	X		
C126	Benny	Iraq	X		
C130	Dino	Iraq	X		
C131	Rex I	Iraq	X		
C132	Branco				
C133	Oran				
C138	Bak	OIF	X		
C142	Aiko	Iraq		X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
C143	Ringo	Iraq	X		
C148	Rio	Iraq		X	
C149	Doki		X		
C152	Bino	Iraq		X	
C153	Basco II	Iraq	X		
C155	Fellow	Iraq	X		
C156	Alan	Iraq	X		
C157	Rex II	SWA		X	
C159	Ajax	Iraq	X		
C160	Ben	Iraq	X		
C161	Tommie	Iraq	X		
C175	Rocky	Iraq			X
C179	Aldo	Iraq	X		
C184	Tasja	Middle East			
C189	Rody	Iraq	X		
C191	Kimba	Iraq	X		
C198	Nero	Iraq	X		
C200	Zuro	Iraq	X		
C205	Gino	undisclosed			X
C206	Boddy	Kuwait, unsure if Iraq			X
C207	Dutchy	Iraq	X		
C211	Rocco	Iraq	X		
C216	Ronny	undisclosed			X
C230	Rocky	SWA	X		
C232	Brent	Iraq			X
C233	Dino	Middle East	X		
C234	Jecky	Iraq	X		
C235	Baro	Iraq	X		
C239	Kelly	Iraq	X		
C241	Rita	Iraq	X		
C250	Eros				X
C252	Rico	Iraq	X		
C258	Uran	Iraq			X
C260	Chyba	Iraq	X		
C264	Harris	Iraq		X	
C270	Hard	Iraq	X		
D001	King	Iraq	X		
D006	Aron	Iraq	X		
D009	Bobby	Iraq	X		
D012	Rex	Iraq		X	
D014	Ali				X
D018	Rexo	undisclosed		X	
D019	Bak	Kuwait			X
D024	Global	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
D030	Dak	Iraq	X		
D031	Bbrandt	Iraq	X		
D033	Ralf	SWA		X	
D035	Rebel	Iraq	X		
D035	Rebel	Iraq	X		
D043	Cchyna	Iraq	X		
D045	Tino	Iraq			
D046	Rico	Iraq	X		
D049	Lucky	Iraq	X		
D050	Erwin	Iraq			X
D053	Caly	Iraq			
D055	Matsy	Iraq	X		
D057	Basco	Iraq	X		
D057	Basco	Iraq	X		
D058	Jordan	OIF/OEF	X		
D059	Brit	Not Iraq			X
D060	Paco	Iraq		X	
D063	Cierney	Iraq	X		
D067	Dany	Iraq	X		
D068	Edo	Iraq	X		
D070	Python	Iraq	X		
D072	Rex	Iraq		X	
D079	Riki	OEF			X
D098	Nero	undisclosed	X		
D099	Boetzo	Iraq	X		
D101	Kai	undisclosed	X		
D102	Linda	Iraq	X		
D104	Ramo	Iraq	X		
D105	Bart	SWA	X		
D108	Marco	Iraq	X		
D114	Marco	Iraq		X	
D116	Gino	undisclosed		X	
D119	Ben	Iraq	X		
D126	Blacky	Iraq	X		
D131	Robby	SWA	X		
D132	Ori	Iraq	X		
D135	Pascha	Iraq	X		
D141	Brix	Iraq	X		
D142	Don	OIF			
D150	Argo	Iraq	X		
D151	Gaston	Iraq	X		
D154	Ronny	Iraq	X		
D155	Alf	Iraq	X		
D163	Lea	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
D166	Kim	Iraq	X		
D167	Bodie	Iraq	X		
D171	Hasso	Iraq	X		
D175	Yossi	Iraq		X	
D183	Lea	Iraq	X		
D188	Rexo	Iraq		X	
D190	Dago	OIF		X	
D191	Bad	undisclosed			X
D198	Mayo				
D205	Tarzan	Iraq	X		
D206	Paco			X	
D207	Charlie	Iraq	X		
D208	Masizo	Iraq	X		
D208	Masizo	Iraq	X		
D210	Chang	Iraq		X	
D211	Rik	Iraq	X		
D212	Rex	Iraq	X		
D214	Ddamion	Iraq		X	
D226	Eesau	Iraq		X	
D234	Rex				X
D236	Aris	Iraq	X		
D237	Dago	Qatar			X
D239	Cak	Iraq	X		
D240	Rex	Iraq	X		
D241	Kevin	Iraq	X		
D242	Ayke	Iraq	X		
D243	Sheryl	Iraq		X	
D244	Rek	OIF	X		
D245	Appie	Iraq		X	
D246	Roc				X
D249	Rex	Iraq	X		
D253	Ben	Iraq	X		
D255	Ano	Iraq	X		
D256	Mike	Iraq	X		
D257	Nero	Iraq	X		
D257	Nero	Iraq	X		
D262	Donna	Iraq	X		
D268	Dandy			X	
E001	Rico	Iraq	X		
E001	Rico	OEF		X	
E016	Lukie	Iraq	X		
E016	Lukie	Iraq	X		
E019	Jacco	Iraq		X	
E020	Allan	SWA			X

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
E021	Basco II		X		
E021	Basco II	Iraq	X		
E024	Cedo	Iraq (OIF)		X	
E026	Raudi	Iraq	X		
E028	Kenny	Iraq	X		
E029	Gas	Iraq	X		
E030	Monty	Iraq	X		
E034	Brit	Iraq	X		
E034	Brit			X	
E035	Six II	Iraq	X		
E039	Borris	Iraq	X		
E043	Robby			X	
E044	Dino	Iraq	X		
E045	Ganny	Iraq		X	
E049	Eddy	Iraq		X	
E050	Santo	Iraq	X		
E055	Rocky	Iraq		X	
E058	Robby	Iraq	X		
E061	Kevin	Iraq		X	
E069	Bronx	Iraq		X	
E070	Bruno	Iraq	X		
E071	Laika	SWA			X
E072	Cassie	Iraq		X	
E073	Tanja	Iraq	X		
E075	Bodie	Iraq	X		
E076	Cven	Iraq	X		
E076	Cven	Iraq	X		
E078	Rhonda	UAE			X
E084	Irina	Iraq	X		
E089	Aron			X	
E090	Bad	Middle East	X		
E091	Benn	Iraq	X		
E095	Bak	Iraq	X		
E096	Cesar	Iraq		X	
E097	Aladar	Iraq	X		
E101	Riki	Iraq		X	
E102	Rokka	Iraq	X		
E103	Zasko	Iraq	X		
E105	Rocki	Iraq		X	
E110	Rex	Iraq			
E111	Aris	SWA	X		
E112	Nouska	Iraq	X		
E113	Marko	Iraq	X		
E114	Goro	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
E116	Cliff	Iraq	X		
E117	Dodo	Iraq	X		
E119	Rocko	Iraq	X		
E129	Zento	undisclosed			X
E132	Lex	Iraq		X	
E133	Rony	Iraq	X		
E137	Nick			X	
E138	Gudy	Iraq	X		
E140	Chaak	Iraq		X	
E140	Chaak				
E142	Mongo	Iraq	X		
E145	Rogue	Iraq	X		
E146	Salli	Iraq		X	
E148	Perro	Iraq			
E150	Yuma	Iraq	X		
E152	Irano	Iraq			X
E156	Ronnie	undisclosed	X		
E160	J.P.	Iraq	X		
E168	Rex	Iraq	X		
E170	Heri	Iraq	X		
E171	Harris	Iraq			
E182	Zorro	Iraq	X		
E186	Ajax	Iraq	X		
E186	Ajax	Iraq		X	
E191	Bad	Iraq	X		
E192	Nero	Iraq		X	
E193	Jack	Iraq		X	
E203	Hasso				X
E205	Brit	OIF	X		
E210	Buco	OIF/OEF		X	
E211	Rex	Iraq		X	
E217	Blackie	Iraq	X		
E221	Siro	Iraq	X		
E221	Siro	Iraq	X		
E222	Pate	Iraq	X		
E223	Albert	Iraq	X		
E225	Bosco	Iraq	X		
E227	Tom	OIF		X	
E228	Argo	Iraq		X	
E235	Youry	Iraq	X		
E238	Dak	Iraq	X		
E239	Rexo	Iraq	X		
E242	Mokus	undisclosed			X
E250	Rudy	Middle East	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
E253	Endy	Iraq			X
E254	Cisko	Iraq	X		
E257	Tina	Iraq	X		
E258	Hanna	Iraq		X	
E259	Kera	Iraq	X		
E279	Charlie	Iraq	X		
E285	Rita	Iraq		X	
E285	Rita	Iraq		X	
E286	Raiza	Iraq	X		
E287	Boda	undisclosed		X	
E289	Anna				X
E290	Spike	Iraq		X	
E292	Cindy	OIF	X		
E292	Cindy	Iraq	X		
E294	Charlie	Iraq		X	
E295	Brit	Iraq		X	
E296	Nero	Iraq	X		
E298	Prins	Iraq	X		
E300	Rexo	Iraq	X		
E302	Roy	Middle East	X		
E304	Mido	Iraq	X		
E307	Johnson	Iraq			
E308	Ficko	Iraq	X		
E309	Natz	Iraq	X		
E310	Veki	SWA			
E311	Nero	Iraq	X		
E313	Gordon	Iraq	X		
E317	Rocco	Iraq			X
F000	Frisko	SWA	X		
F002	Roby	SWA		X	
F003	Jack	Iraq	X		
F006	Dak	SWA			
F009	GreK	Iraq		X	
F012	Rex	Iraq		X	
F013	Brix	Iraq		X	
F016	Rexo	Iraq	X		
F017	Anty	Iraq		X	
F017	Anty	Iraq		X	
F020	Brutis	undisclosed	X		
F030	Pocket	Iraq		X	
F032	Karo	Iraq	X		
F035	Chaky	Iraq			X
F036	Teiger	Iraq		X	
F036	Teiger				

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
F038	Lasso	Iraq		X	
F039	Joy	Iraq		X	
F050	Rambo	Iraq		X	
F051	Ben	undisclosed	X		
F053	Boss				X
F054	Rex	Iraq	X		
F056	Sniper	Iraq			X
F062	Agar	Iraq		X	
F064	Benni	Iraq			
F065	Rex II	Iraq	X		
F068	Brit	Iraq		X	
F070	Perda	Iraq	X		
F070	Perda			X	
F072	Benny	Iraq	X		
F074	Rex	SWA	X		
F086	Sam	Iraq		X	
F089	Ringo	Iraq	X		
F092	Jack	Iraq		X	
F094	Andy	OIF	X		
F095	Sam	Iraq	X		
F096	Chico	Iraq	X		
F101	Rek	Iraq	X		
F102	Rex	Iraq	X		
F112	Joll			X	
F114	Emax	Iraq	X		
F115	Nero	SWA			
F120	Jago			X	
F121	Gypsy	Iraq	X		
F122	Luigi	Iraq		X	
F124	Rick	Iraq		X	
F125	Rex	Iraq	X		
F125	Rex	Iraq	X		
F127	Spike	Iraq		X	
F135	Billy	Iraq			
F142	Luca	Iraq			
F144	Sammy	Iraq		X	
F145	Bernie	Iraq	X		
F158	Polly	Iraq		X	
F159	Suzi	OIF/OEF		X	
F160	Carla	Iraq	X		
F162	Barry	Yuma			X
F168	Bimbo	Iraq		X	
F172	Zita	OIF			
F173	Vendy	Iraq		X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
F175	Lucky	Iraq		X	
F175	Lucky			X	
F181	Rocky	Iraq		X	
F183	Brix	SWA		X	
F185	Brit	Iraq		X	
F186	Cezar	Iraq		X	
F195	Gabber	Iraq		X	
F196	Fabian	Iraq	X		
F196	Fabian	Iraq		X	
F198	Brik	Iraq		X	
F202	Solo	Iraq	X		
F202	Solo	Iraq	X		
F209	Rexo	Iraq	X		
F211	Ardy	Iraq	X		
F212	Rex II	Iraq		X	
F216	Bak	Iraq		X	
F217	Dasty	Iraq	X		
F218	Beny	Iraq	X		
F227	Gris	Iraq	X		
F233	Ali	Iraq	X		
F237	Rex 5	Iraq	X		
F238	Kitt	Iraq	X		
F238	Kitt	Iraq	X		
F239	Packo	Iraq		X	
F241	Max II	OIF		X	
F243	Micki		X		
F246	Max	Iraq	X		
F249	Rambo	SWA	X		
F250	Vero	Iraq		X	
F252	Cris	Iraq	X		
F254	Kibo	Iraq	X		
F258	Rico	Iraq	X		
F263	Duko	Iraq		X	
F264	Max	Iraq	X		
F266	Boy	undisclosed			X
F280	Sara	Iraq		X	
F281	Zorby	undisclosed	X		
F283	Max	Iraq		X	
F284	Dasty	Iraq AB		X	
F285	Marco		X		
F286	Ziko	Iraq	X		
F287	Pele	Iraq		X	
F289	Bono	Iraq	X		
F289	Bono	Iraq		X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
F290	Zak				X
F291	Rex	Iraq	X		
F291	Rex	Iraq	X		
F292	King	Iraq		X	
F298	Rony	Iraq	X		
F299	Sando	Iraq	X		
F300	Aron	Iraq		X	
F301	Bady	Iraq		X	
F306	Chan	Iraq	X		
F310	Black	Iraq	X		
F311	Doran	Iraq	X		
F312	Bagir	Iraq		X	
F334	Dicky			X	
F335	Dena			X	
F337	Carlos	SWA	X		
F339	Bonnie	Iraq	X		
F340	Fendy	Iraq		X	
F344	Rex	Iraq		X	
F346	Raika			X	
F348	Luna	SWA		X	
F349	Conny	Iraq			
F350	Ajda	OIF	X		
F367	Beny	Iraq	X		
F369	Car	Iraq	X		
F370	Dingo	Iraq		X	
F371	Deny	Qatar			X
F374	Tommy	Iraq	X		
F374	Tommy	Iraq	X		
F375	Kastor	Iraq		X	
F377	Wodan	Iraq			X
F381	Flapoor	Iraq	X		
F383	Art	OIF/OEF		X	
F384	Lion	Iraq	X		
F385	Cir	Iraq	X		
F386	Eric	Iraq	X		
F389	Bleek	Iraq			
F390	Duuk	OIF	X		
F391	Fredi	Iraq		X	
F392	Rex			X	
F393	Talley	Iraq	X		
F395	Tino	Iraq	X		
F395	Tino	Iraq	X		
F398	Rolf	Iraq	X		
F398	Rolf	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
F402	Clara	OIF	X		
F403	Misti	Iraq	X		
F403	Misti	Iraq		X	
F410	Buck	Iraq			
F411	Liska	undisclosed			X
F412	Fada	Iraq		X	
F415	Sonja	Iraq			
F417	Boniface	Iraq	X		
F417	Boniface	Iraq	X		
F418	Roxy	SWA	X		
F419	Elra	Iraq	X		
F420	Ara	undisclosed			
F421	Uran	Iraq		X	
F422	Winni	Iraq		X	
F423	Ajax	Iraq	X		
F426	Ffax	Iraq	X		
F426	Ffax	Iraq	X		
F429	Ffaust	Iraq	X		
F429	Ffaust	Iraq	X		
F430	Ffifteen	Iraq	X		
F433	Alma	Iraq	X		
F433	Alma	Iraq	X		
F436	Ffagan	Iraq		X	
F445	Talon	Iraq	X		
F451	Baron	SWA		X	
F452	Zak				X
F456	Devyl	Iraq	X		
F457	Kris				X
F460	Boyke	Iraq			X
F462	Rex	Iraq	X		
F462	Rex	Iraq		X	
F464	Sany	Iraq	X		
F465	Allen	undisclosed		X	
F466	Max	Iraq	X		
F466	Max	Iraq		X	
F467	Jimmy	Iraq			X
F469	Zito	Iraq	X		
F471	Karlo	Iraq	X		
F479	Vasho	OEF			X
F484	Cezar	Iraq		X	
F486	Tino	Iraq		X	
F487	Benjo	Iraq	X		
F488	Caro	Iraq	X		
F499	Dakota			X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
F521	Amigo	Iraq	X		
F527	Jannie	Iraq		X	
F531	Magnum	SWA	X		
F533	Muro	Iraq	X		
F543	Panter	SWA	X		
F544	Bico	OIF	X		
F545	Jonny	Iraq		X	
F547	Rony	Iraq		X	
F550	Cora	OIF	X		
F554	Rex 4	Iraq	X		
F559	Rex	Afghanistan			X
F560	Baro	Iraq		X	
F570	Arik	OIF	X		
F582	Tembo	Iraq		X	
F583	Wandor	Iraq	X		
F590	Argo	Iraq	X		
F591	Bad	Iraq	X		
F593	Telin	Iraq			
F599	Laika	Iraq		X	
F605	Ggabbi	Iraq	X		
F610	Ggina			X	
F612	Dita	undisclosed	X		
F617	Wita	Iraq	X		
F618	Janiss	undisclosed			
F619	Sabor	undisclosed			X
F620	Lando	Iraq			
F621	Beast	Iraq		X	
F632	Laika	Iraq	X		
F714	Sam	Iraq		X	
F715	Bruno	Iraq	X		
F716	K-bar (Cabor)	Iraq	X		
F726	Figo	Iraq	X		
F727	Jay	Iraq	X		
F728	Johnny	Iraq		X	
F729	Star	Iraq			
F730	Euro	Iraq	X		
F731	Tigo	Iraq		X	
F731	Tigo	Iraq		X	
F732	Hans	Iraq	X		
F738	Pasha	Iraq	X		
F739	Arko	Iraq		X	
F740	Dina	Iraq	X		
F740	Dina	Iraq	X		
F741	Axel	Iraq		X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
F742	Kiddy	Iraq	X		
H000	Riko	Iraq	X		
H008	Hhart	Iraq			X
H009	Hhero	Iraq		X	
H012	Hhendirx	Dog Center			X
H023	Cent0	Iraq	X		
H029	Zico	Iraq		X	
H039	Igor	Iraq		X	
H044	Ronnie	Iraq	X		
H045	Max	undisclosed			X
H048	Torca				X
H049	Rico	Afghanistan			X
H051	Akim	Iraq	X		
H055	Shaman	Iraq	X		
H056	Ikka	Iraq		X	
H061	Kitchy	Iraq			X
H063	Brit	Iraq		X	
H064	Arco	Iraq	X		
H066	Puck	OEF		X	
H067	Chef	Iraq	X		
H073	Dasty	Iraq	X		
H077	Hhope	Iraq		X	
H088	Ireland	Iraq	X		
H100	Beyco	undisclosed	X		
H100	Beyco	Iraq	X		
H101	Gent	Iraq			X
H103	iindy	undisclosed		X	
H107	Kamilka	undisclosed			X
H108	Diego	Iraq		X	
H109	Ziko	Iraq	X		
H111	Dingo	Iraq		X	
H116	Alex	Iraq		X	
H118	Asko	Iraq			X
H120	Rex	Iraq		X	
H126	Boxy	Iraq		X	
H128	Matso	Iraq		X	
H129	Lasso	Iraq		X	
H129	Lasso	OIF		X	
H142	Rex	Iraq		X	
H144	Dano	Iraq		X	
H144	Dano	Iraq		X	
H145	Buddy	Iraq		X	
H146	Waldo	Iraq		X	
H147	Kevin	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
H147	Kevin	Iraq	X		
H149	Robbie			X	
H150	Damiaan			X	
H153	Bronco	undisclosed			
H155	Rex	Iraq	X		
H156	Harry	SWA		X	
H159	Ruby	Iraq		X	
H161	Suhaj	Iraq		X	
H162	Rex	Iraq		X	
H163	Bady	undisclosed		X	
H165	Horst	Iraq		X	
H171	Rexo	Iraq		X	
H176	Fama	Iraq			X
H177	Britta	Iraq	X		
H178	Zissi	Iraq	X		
H179	Keve	Iraq			X
H180	Loeka	Iraq		X	
H182	Mandy	undisclosed	X		
H183	Asta	Iraq	X		
H184	Jesa	Iraq		X	
H187	Darra	Iraq		X	
H188	Rita	Iraq	X		
H199	Blek	undisclosed		X	
H202	Jackson	Iraq	X		
H203	Baiky	Iraq	X		
H205	Cito				X
H208	Axel				
H211	Arzan	Iraq		X	
H218	Alik	Iraq	X		
H221	Jack	Iraq		X	
H222	Pluto	Iraq		X	
H223	Walker	undisclosed		X	
H228	Waldo	Iraq		X	
H240	Bak	Iraq	X		
H242	Peet	SWA			X
H244	Aron	Iraq			X
H245	Max	Iraq		X	
H246	Hexa	undisclosed		X	
H246	Hexa	Iraq		X	
H247	Crock	Iraq		X	
H248	Beny	Iraq			
H251	Bodo	Iraq	X		
H253	Bingo	OIF	X		
H255	Les	Iraq		X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
H257	Argo	OEF		X	
H259	Rex	Iraq	X		
H260	Crock	Iraq		X	
H261	Bodo	Iraq		X	
H264	Tomy	Iraq			X
H266	Dax				X
H268	Cindy	Iraq	X		
H268	Cindy	Iraq	X		
H272	Barra	undisclosed			X
H275	Bancuk	undisclosed		X	
H287	Jjaycee	Iraq	X		
H287	Jjaycee	OIF		X	
H288	Eddy	Iraq		X	
H289	Blade	undisclosed		X	
H292	Urik				
H296	Emir		X		
H300	Llance			X	
H302	Llaw	Iraq	X		
H304	Llewis	Iraq	X		
H306	Gerco	undisclosed			X
H309	Barasco	SWA	X		
H310	Rexo		X		
H311	Allan	Iraq			
H314	Andy	Iraq	X		
H319	Becker	Iraq		X	
H322	Blesk	Iraq		X	
H327	Baro	Iraq		X	
H330	Markava	Iraq	X		
H330	Markava	Iraq	X		
H333	Uli	Iraq		X	
H334	Charlie	SWA	X		
H335	Bak	Iraq		X	
H338	Jet	Iraq	X		
H346	Mike	Iraq	X		
H347	Jago	Iraq	X		
H348	Max	Iraq		X	
H349	Aron	Iraq	X		
H354	Gerard	Iraq			
H358	Fons	Iraq (OIF)		X	
H364	Tequila	Iraq		X	
H366	Dobo	Iraq	X		
H373	Badis				
H374	Beri	Iraq	X		
H374	Beri	Iraq	X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
H377	Katja	Iraq	X		
H383	Bony				
H385	Mato	undisclosed			
H387	Rex	Iraq		X	
H388	Rico	Iraq			X
H395	Carlos	Iraq		X	
J005	Alfa	Iraq	X		
J006	Lesko	OIF	X		
J022	Ito	Iraq	X		
J030	Gory	Iraq	X		
J058	Arras	Iraq	X		
J069	Lusy	Iraq		X	
J072	Eny	Iraq			X
J121	Judy	Iraq		X	
J130	Sizi	Iraq			X
J134	Drumo	undisclosed	X		
J146	Rambo	Iraq	X		
J147	Renzo	Iraq			
J148	Eros	Iraq	X		
J148	Eros	Iraq	X		
J154	Oscar	Iraq		X	
J156	Cleo	Iraq	X		
J156	Cleo	Iraq		X	
J158	Aja	Iraq		X	
J159	Tosca	Iraq	X		
J161	Anka	SWA			
J165	Cross	Iraq		X	
J170	Anca	Iraq		X	
J172	Nina	Iraq	X		
J175	Mmattias	Iraq	X		
J180	Archie	Iraq	X		
J182	Lucky	Iraq	X		
J182	Lucky	Iraq	X		
J183	Xaro	OIF	X		
J184	Dino	Iraq	X		
J198	Haro	Iraq		X	
J203	Nol				X
J212	Haryk	Iraq	X		
J212	Haryk	Iraq		X	
J225	Black	Iraq		X	
J230	Knuppel				
J232	Maxi	Iraq	X		
J234	Milo	Iraq		X	
J237	Bingo	undisclosed		X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
J238	Buli	Iraq		X	
J239	Bratling	Iraq		X	
J253	Gero	Iraq	X		
J254	Baron	Iraq		X	
J261	Kimbo	Unknown	X		
J262	Sped	Iraq	X		
J267	Benson	SWA			X
J271	Sam	Iraq			X
J273	Brogi	Iraq	X		
J281	Lio	Iraq		X	
J284	Oorlando			X	
J288	Oolivia	UAE or Iraq		X	
J290	Nnick			X	
J291	Era	Iraq		X	
J292	Nora	Iraq		X	
J293	Nnorman	Iraq		X	
J298	Gino	Iraq		X	
J304	Schester	Iraq	X		
J309	Randy				
J324	Chukky				
J327	Dasti	Iraq		X	
J334	Reiko				
J339	Mars				X
J340	Sakal	Iraq			X
J341	Tim	Iraq	X		
J344	Blacky	Iraq		X	
J345	Fanny	Afghanistan			X
J346	Candy	undisclosed			
J351	Roy	undisclosed	X		
J375	Akim	Iraq	X		
J382	Rex	Iraq	X		
J385	Diego	Iraq	X		
J387	Ranger	Iraq	X		
J400	Charly	Iraq		X	
J427	Lucy	Iraq		X	
J433	Brenda	Iraq		X	
J439	Ted	Iraq	X		
J458	Rex	Iraq			X
J459	Goliat	Iraq			
J463	Doki	Iraq			
J465	Mink		X		
J467	Fin				X
J474	Meki				
J481	Hombre			X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
J483	Zoran	Iraq		X	
J486	Szarik				X
J515	Cara	Iraq	X		
J531	Besa				X
J535	Ace	Iraq	X		
J538	Gretchen	Iraq	X		
K005	Alf	Iraq	X		
K006	Cak	Iraq	X		
K008	Hopski			X	
K013	Aris			X	
K024	Cummings	Iraq	X		
K026	Eddie	Iraq	X		
K029	Bak			X	
K041	Bruce	Iraq	X		
K041	Bruce	Iraq		X	
K062	Rony	undisclosed	X		
K073	Ellis	Iraq		X	
K076	Esta	Iraq		X	
K080	Fibi	Iraq			X
K085	Diesel				X
K087	Body	Iraq	X		
K105	Tilly			X	
K110	Chay	Iraq		X	
K133	Rrubio				X
K152	Flyer	undisclosed			X
K153	Gabe	Iraq	X		
K154	Cooper	Iraq	X		
K163	Vvalerie				X
K165	BJ	Iraq	X		
K167	Cezar		X		
K170	Kichi				X
K196	Berry	Iraq	X		
K196	Berry				
K198	Mayo				X
K217	Jack	Iraq		X	
K224	Yyasmin	Iraq	X		
K225	Slovi	Iraq	X		
K230	Zzisko	Iraq	X		
K230	Zzisko				
K235	Zix				
K242	Canelo	Iraq	X		
K243	Lola	Iraq			
K244	Taser	Iraq		X	
K298	Valdo	Iraq		X	

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
K298	Valdo	Iraq			
K300	Marco	Iraq		X	
K345	Figo				X
K350	Renzo	Iraq	X		
K351	Max	Iraq		X	
K356	Kito	Iraq		X	
K360	JR	Iraq			
K409	Bubba	Iraq		X	
K459	Rona		X		
K484	Kelsey			X	
K485	Barros				X
K486	Enda				X
K499	Basco	Iraq		X	
K500	Joesie	Iraq		X	
K501	Cann	Iraq	X		
K502	Clay	Iraq		X	
K503	Boss	Iraq		X	
K504	Pearl	Iraq	X		
K505	Turbo	Iraq	X		
K506	Daisy	Iraq		X	
K507	Trouble	Iraq		X	
K508	Thor	Iraq	X		
K511	Basco	Iraq		X	
K517	Yona	Iraq		X	
K520	Thomas	Iraq		X	
K523	Max	Iraq		X	
L006	Rex	Iraq		X	
L033	Streak	Iraq	X		
L059	Jag				
L067	Sano				X
L071	Basa	Iraq		X	
L132	Rowan				X
L201	Athos			X	
L346	Falco				X
L510	Charlie	Iraq	X		
L511	Jammer	Iraq	X		
L512	Katie	Iraq		X	
L513	Mocha	Iraq		X	
L515	Siebert	Iraq	X		
L516	Ace	Iraq	X		
L517	Dakota	Iraq		X	
L518	Goodwin	Iraq	X		
SP1	Boy		X		
SP2	Dirk		X		

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No
SP3	Oscar		X		
SP4	Brendan		X		
SP5	Woodan		X		
SP6	Morgan		X		
SP7	Diesel		X		
SP8	Arco		X		
SP9	Iwan		X		
SP10	Rocky		X		
SP11	Ties		X		
SP12	Pepper		X		
SP13	Atos		X		
SP14	Zipper		X		
SP15	Vincent		X		
SP16	Duke		X		
SP17	Bonky		X		
SP18	Joep		X		
W231	Basco	Kuwait			X
X036	Jaco	SWA			
X098	Dax	Iraq	X		
X140	Cindy	Iraq			
X154	Bruno	Iraq	X		
X190	Tosca	Iraq	X		
Y004	Rico	Iraq	X		
Y020	Zorro	Iraq		X	
Y039	Basco	Iraq		X	
Y059	Tanja				
Y073	Marco	Kuwait			X
Y098	Bear	SWA			
Y135	Best	Saudi/Kuwait			X
Y167	Cheeta	Iraq	X		
Z048	Ricky	Iraq			
Z056	Ex	undisclosed			
Z070	Terra	Kuwait			X
Z071	Blesk	Iraq	X		
Z103	Tino	OIF			X
Z122	Allan	Iraq			
Z133	Allan	Iraq			
Z154	Rex	Iraq (OIF)		X	
Z167	Reno I	Qatar			X
Z188	Elza	Iraq/SWA	X		
Z193	Bayca	Iraq	X		

Appendix H: Retired and Deceased MWD Records Abstracted From Dog Center Medical Records Repository

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No	STATUS
A021	Nick	Iraq		X		Deceased 07
A037	Ringo	Iraq	X			Retired 07
A039	Killi	Iraq	X			Retired 07
A040	Sonya	Iraq	X			Retired 07
A061	Max	Iraq	X			Retired 07
A062	Edo	Iraq	X			Deceased 06
A071	Harkos	Iraq	X			Deceased 05
A093	Blacky	Iraq	X			Deceased 05
A100	Cantor	Iraq	X			Retired 07
A113	Lucky	Iraq	X			Deceased 07
A123	Ranny	Iraq	X			Retired 08
A153	Kastor	Iraq	X			Deceased 06
A155	Frenke	Iraq	X			Retired 07
A211	Kazan	Iraq	X			Deceased 07
A219	Hexe	Iraq	X			Deceased 06
A231	Joep	Afghanistan			X	Retired 07
A237	Tarzan	Iraq	X			Deceased 07
A247	Fonda	Iraq	X			Retired 07
A256	Cezar	Kuwait			X	Deceased 05
A264	Ajax	Iraq		X		Deceased 06
A271	Eros	Iraq	X			Retired 07
A287	Art	Iraq	X			Deceased 06
A295	Rex	Iraq	X			Deceased 07 - died in theater
A296	Louis	Iraq		X		Deceased 07
A316	Bony	Afghanistan			X	Retired 07
A317	Nik	Iraq	X			Deceased 07
A318	Anita	Qatar			X	Deceased 05
A342	Baro	Iraq		X		Retired 07
A345	Teso	Iraq	X			Retired 06
A346	Loeki	undisclosed			X	Deceased 06
A349	Danny	Iraq		X		Retired 07
A352	Jury	Iraq	X			Retired 07
A360	Rico	Iraq	X			Deceased 07
A371	Kelli	Iraq	X			Deceased 05 in theater
A381	Art	Iraq	X			Retired 08
A382	Dino	Iraq		X		Deceased 07
B003	Rosco	Iraq	X			Retired 07

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No	STATUS
B006	Falko	Iraq	X			Retired 07
B014	Boris	Iraq	X			Deceased 06
B016	Duc	Iraq	X			Retired 06
B021	Joop	Iraq	X			Deceased 06
B022	Baddy	Iraq	X			Deceased 06
B029	Bree	Iraq	X			Deceased 08
B032	Rexie	Iraq	X			Retired 07
B036	Bepo	Iraq	X			Deceased 05 in theater
B047	Houby	Iraq	X			Deceased 07
B068	Endy	Iraq		X		Deceased 04
B089	Black	Iraq	X			Deceased 07
B091	Carlos	Iraq	X			Retired 07
B131	Dino	Iraq	X			Deceased 07
B135	Rex	Iraq	X			Retired 07
B149	Sorbon	Not Iraq			X	Deceased 07
B150	Duco	Kuwait			X	Retired 07
B164	Arno	Iraq	X			Deceased 07
B168	Alex	Not Iraq			X	Retired 07
B178	Brit	Iraq		X		Deceased 06
B190	Ben	Iraq	X			Deceased 07
B194	Rudy	Iraq		X		Retired 07
B201	Marcy	Iraq	X			Retired 07
B218	Michael	Iraq	X			Deceased 07
B222	Jack	Iraq	X			Deceased 06
B233	Rex	Iraq	X			Deceased 05 in theater
B234	Zorro	Iraq	X			Deceased 06
B295	Chloe	Iraq	X			Deceased 07
B310	Max	Iraq	X			Deceased 07
B314	Kwinto	Iraq	X			Retired 07
B359	Jacky	Iraq	X			Deceased 06
B361	Alan	Iraq	X			Deceased 07
B363	Akki	Iraq	X			Deceased 05 in theater
B364	Dino	Iraq	X			Retired 08
B374	Goldi	Kuwait/Bahrain			X	Deceased 06
B377	Basco	Iraq	X			Deceased 07
B386	Senta	Iraq	X			Deceased 05
C024	Akok	Kuwait			X	Retired 07
C025	Ajax	Iraq	X			Deceased 07
C049	Fido	Iraq	X			Retired 07
C061	Bo	Iraq	X			Retired 08
C101	Arko	Iraq	X			Deceased 07
C107	Benny	Iraq	X			Retired 07

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No	STATUS
C113	Dac	Iraq	X			Deceased 07
C123	Ceaser	Iraq	X			Retired 07
C130	Dino	Iraq	X			Deceased 05
C142	Aiko	Iraq		X		Retired 07
C159	Ajax	Iraq	X			Retired 07
C160	Ben	Iraq	X			Deceased 05
C161	Tommie	Iraq	X			Deceased 06
C198	Nero	Iraq	X			Retired 07
C206	Boddy	Kuwait, unsure if Iraq			X	Deceased 05
C211	Rocco	Iraq	X			Med TDY to Dog Center
C235	Baro	Iraq	X			Deceased 07
D024	Global	Iraq	X			Deceased 07
D030	Dak	Iraq	X			Deceased 06 - KIA
D108	Marco	Iraq	X			Deceased 07 in theater
D119	Ben	Iraq	X			Deceased 06
D135	Pascha	Iraq	X			Retired 07
D166	Kim	Iraq	X			Deceased 06
D205	Tarzan	Iraq	X			Deceased 07
D239	Cak	Iraq	X			Retired 07
D243	Sheryl	Iraq		X		Med TDY to DC
D256	Mike	Iraq	X			Med TDY to DC
D262	Donna	Iraq	X			Deceased 06
E019	Jacco	Iraq		X		Deceased 06
E026	Raudi	Iraq	X			Retired 07
E028	Kenny	Iraq	X			Retired 07
E030	Monty	Iraq	X			Retired 07
E044	Dino	Iraq	X			Retired 07
E045	Ganny	Iraq		X		Deceased 06
E058	Robby	Iraq	X			Deceased 06
E061	Kevin	Iraq		X		Med TDY to DC
E072	Cassie	Iraq		X		Med TDY to DC
E078	Rhonda	UAE			X	Retired 08
E102	Rokka	Iraq	X			Deceased 05
E113	Marko	Iraq	X			Deceased 07
E116	Cliff	Iraq	X			Retired 06
E133	Rony	Iraq	X			Deceased 05
E146	Salli	Iraq		X		Deceased 07
E150	Yuma	Iraq	X			Retired 07

TATTOO	NAME	DEPLOYMENT LOCATION	Iraq -Yes; VCE-Yes	Iraq-Yes; VCE-No	Iraq-No	STATUS
E191	Bad	Iraq	X			Deceased 08
E242	Mokus	undisclosed			X	Training Aid
E259	Kera	Iraq	X			Deceased 05
E279	Charlie	Iraq	X			Retired 07
E298	Prins	Iraq	X			Deceased 07
E300	Rexo	Iraq	X			Deceased 07 - died in theater
E308	Ficko	Iraq	X			Deceased 07
E309	Natz	Iraq	X			Med TDY to DC
F016	Rexo	Iraq	X			Deceased 08
F039	Joy	Iraq		X		Retired 06
F102	Rex	Iraq	X			Deceased 07
F162	Barry	Yuma			X	Deceased 06
F195	Gabber	Iraq		X		Retired 07
F299	Sando	Iraq	X			Retired 07
F371	Deny	Qatar			X	Retired 07
F445	Talon	Iraq	X			Deceased 07
F533	Muro	Iraq	X			Retired 06
F545	Jonny	Iraq		X		Deceased 07
F550	Cora	OIF	X			Med TDY to Dog Center
F559	Rex	Afghanistan			X	Deceased 06
F591	Bad	Iraq	X			Deceased 07
F632	Laika	Iraq	X			Training Aid
F716	K-bar (Cabor)	Iraq	X			Med TDY to DC
H218	Alik	Iraq	X			
J058	Arras	Iraq	X			Deceased 07 - KIA
K154	Cooper	Iraq	X			Deceased 07 - KIA
W231	Basco	Kuwait			X	Deceased 05
X098	Dax	Iraq	X			Deceased 07
X154	Bruno	Iraq	X			Deceased 06
X190	Tosca	Iraq	X			Retired 07
Y004	Rico	Iraq	X			Deceased 07
Y073	Marco	Kuwait			X	Deceased 05
Y135	Best	Saudi/Kuwait			X	Retired 06
Y167	Cheeta	Iraq	X			Retired 07
Z070	Terra	Kuwait			X	Deceased 06
Z071	Blesk	Iraq	X			Retired 07
Z154	Rex	Iraq (OIF)		X		Deceased 07
Z167	Reno I	Qatar			X	Deceased 07
Z188	Elza	Iraq/SWA	X			Deceased 07

Appendix I: Demographics of Eligible MWDs With Veterinary Clinical Events

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
1	A037	Ringo	2	1	1	4	10
2	A039	Killi	2	2	3	5	9
3	A040	Sonya	4	1	1	5	12
4	A061	Max	1	3	1	5	10
5	A062	Edo	1	2	2	5	9
6	A065	Jocco	1	2	3	5	9
7	A071	Harkos	1	2	2	5	9
8	A076	Cash	2	1	1	4	8
9	A093	Blacky	1	2	2	5	7
10	A100	Cantor	1	2	1	4	7
11	A104	Liz	4	4	2	3	7
12	A113	Lucky	2	2	1	5	7
13	A120	Benny	1	2	3	4	9
14	A123	Ranny	1	2	1	4	9
15	A140	Carlo	1	2	1	5	9
16	A142	Dusty	4	1	2	5	8
17	A153	Kastor	2	1	1	5	8
18	A155	Frenke	2	2	1	5	7
19	A159	Bado	1	2	3	5	8
20	A161	Woodan	1	1	3	3	9
21	A211	Kazan	2	1	2	5	7
22	A219	Hexe	4	2	1	5	9
23	A237	Tarzan	1	2	1	4	8
24	A244	Rex	1	1	1	4	9
25	A247	Fonda	4	2	2	5	8
26	A271	Eros	2	2	2	5	6
27	A287	Art	1	2	3	5	8
28	A295	Rex	1	2	3	5	9
29	A317	Nik	1	2	4	5	8

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
30	A325	Rex II	1	1	1	5	7
31	A343	Bak	2	2	3	5	7
32	A344	Oscar	2	1	4	5	8
33	A345	Teso	1	2	4	5	7
34	A352	Jury	1	1	3	5	8
35	A360	Rico	2	1	2	5	10
36	A371	Kelli	4	1	4	5	9
37	A372	Astra	4	1	3	5	9
38	A381	Art	1	2	4	5	7
39	B003	Rosco	1	1	3	5	10
40	B006	Falko	1	2	4	5	7
41	B014	Boris	1	1	2	5	7
42	B016	Duc	2	1	4	5	7
43	B018	Ringo	2	1	4	5	7
44	B021	Joop	2	1	2	5	9
45	B022	Baddy	2	2	2	5	7
46	B029	Bree	1	1	2	5	7
47	B032	Rexie	1	2	4	5	8
48	B036	Bepo	2	2	4	5	6
49	B041	Billy	1	3	2	5	7
50	B042	Rocky	2	1	2	5	9
51	B047	Houby	4	2	2	5	8
52	B050	Joost	2	2	2	5	8
53	B056	Britt	2	2	1	5	9
54	B089	Black	2	2	3	5	8
55	B091	Carlos	1	1	2	5	7
56	B106	Rocky	2	1	1	4	6
57	B107	Britt	2	1	2	5	8
58	B108	Freddy	1	1	1	5	7
59	B131	Dino	2	2	2	5	8
60	B135	Rex	2	2	4	5	7

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
61	B142	Breston	2	3	1	4	8
62	B144	Berry	2	1	1	5	9
63	B155	Bram	1	1	2	5	8
64	B157	Tico	1	1	2	3	7
65	B164	Arno	1	1	3	5	8
66	B190	Ben	2	2	2	5	7
67	B201	Marcy	2	2	4	5	6
68	B217	Gabriel	2	1	2	5	8
69	B218	Michael	1	1	1	5	7
70	B222	Jack	1	2	1	5	6
71	B233	Rex	2	2	1	5	7
72	B234	Zorro	2	2	1	5	8
73	B239	Ceasar	2	2	2	5	9
74	B241	Jacky	2	2	2	5	6
75	B246	Carlo	2	1	2	5	5
76	B256	Ingus	2	2	3	5	5
77	B266	Kisma	2	1	2	5	8
78	B282	Tosca	4	1	2	5	9
79	B295	Chloe	4	2	2	5	8
80	B297	Sindy	4	3	3	4	7
81	B303	Ari	2	2	1	5	7
82	B310	Max	1	1	1	4	9
83	B314	Kwinto	2	1	4	5	7
84	B318	Cezar	2	2	2	5	8
85	B337	Dingo	2	2	3	5	7
86	B339	Bord	2	2	4	5	6
87	B349	Polo	1	2	2	5	5
88	B359	Jacky	1	1	2	5	5
89	B361	Alan	1	2	2	5	5
90	B363	Akki	2	2	2	5	7
91	B364	Dino	1	2	2	5	7

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
92	B367	Bruno	2	1	2	5	6
93	B377	Basco	1	1	4	5	8
94	B386	Senta	4	1	2	5	7
95	C005	Irk	2	2	1	4	7
96	C013	Rudy	2	1	2	5	5
97	C025	Ajax	2	2	3	5	6
98	C026	Alan	1	2	1	5	7
99	C038	Ricky	2	2	2	3	7
100	C046	Blacky	1	2	2	5	5
101	C049	Fido	1	1	4	5	6
102	C061	Bo	2	1	1	4	6
103	C072	Bojar	1	2	2	4	8
104	C097	Rexo	1	2	1	5	8
105	C098	Apoll	2	2	2	3	5
106	C100	Breston	2	1	2	5	4
107	C101	Arko	1	2	2	5	7
108	C103	Ringo	2	2	1	5	9
109	C107	Benny	1	2	2	5	7
110	C113	Dac	2	2	3	5	6
111	C120	Petty	2	2	2	5	4
112	C123	Ceaser	1	2	2	5	8
113	C126	Benny	1	2	3	5	6
114	C130	Dino	1	1	2	5	6
115	C131	Rex I	1	1	2	5	4
116	C138	Bak	2	2	1	4	5
117	C143	Ringo	1	3	1	5	7
118	C149	Doki	1	5	1	5	6
119	C153	Basco II	1	3	2	5	4
120	C155	Fellow	2	2	3	3	7
121	C156	Alan	2	2	2	5	4
122	C159	Ajax	1	2	2	5	4

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
123	C160	Ben	2	2	2	5	5
124	C161	Tommie	1	3	4	5	6
125	C179	Aldo	2	2	4	5	6
126	C189	Rody	4	1	3	5	5
127	C191	Kimba	2	1	2	5	4
128	C198	Nero	1	2	2	5	4
129	C200	Zuro	1	1	2	5	8
130	C207	Dutchy	2	3	2	5	5
131	C211	Rocco	1	1	2	5	5
132	C230	Rocky	2	2	3	5	9
133	C233	Dino	2	2	1	4	5
134	C234	Jecky	1	2	2	5	5
135	C235	Baro	1	2	4	5	6
136	C239	Kelly	2	3	2	5	6
137	C241	Rita	4	2	2	5	4
138	C252	Rico	2	1	1	4	9
139	C260	Chyba	4	2	1	4	6
140	C270	Hard	1	2	1	5	7
141	D001	King	2	2	2	5	6
142	D006	Aron	2	2	1	4	6
143	D009	Boddy	2	2	1	4	7
144	D024	Global	1	1	1	5	7
145	D030	Dak	1	2	1	5	8
146	D031	BBrant	2	1	2	5	5
147	D035	Rebel	1	1	4	5	4
148	D043	Cchyna	4	1	4	5	5
149	D046	Rico	1	1	2	5	4
150	D049	Lucky	2	2	3	3	6
151	D055	Matsy	1	2	1	5	8
152	D057	Basco	1	3	4	5	6
153	D058	Jordan	2	2	3	5	7

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
154	D063	Ciorny	2	2	2	5	7
155	D067	Dany	1	2	4	5	4
156	D068	Edo	2	2	2	5	5
157	D070	Python	1	1	1	5	7
158	D098	Nero	2	2	2	5	4
159	D099	Boetzo	1	2	3	5	7
160	D101	Kai	2	1	2	5	4
161	D102	Linda	4	1	3	3	7
162	D104	Ramo	2	2	1	5	7
163	D105	Bart	2	2	1	5	4
164	D108	Marco	1	1	2	5	3
165	D119	Ben	2	2	3	5	6
166	D126	Blacky	4	2	1	5	6
167	D131	Robby	2	1	2	5	5
168	D132	Ori	2	2	2	5	6
169	D135	Pascha	1	2	1	5	6
170	D141	Brix	1	1	3	5	5
171	D150	Argo	2	2	2	5	4
172	D151	Gaston	2	2	1	4	5
173	D154	Ronny	2	2	4	5	6
174	D155	Alf	2	2	1	5	6
175	D166	Kim	2	2	1	5	5
176	D167	Bodie	1	2	4	5	6
177	D171	Hasso	2	2	3	5	6
178	D183	Lea	4	1	4	5	8
179	D205	Tarzan	1	2	3	5	5
180	D207	Charlie	2	2	2	5	6
181	D208	Masizo	2	1	4	5	4
182	D211	Rik	2	2	1	5	6
183	D212	Rex II	2	2	2	5	3
184	D236	Aris	1	2	1	4	4

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
185	D239	Cak	1	2	4	5	4
186	D240	Rex	2	2	2	5	6
187	D241	Kevin	1	2	1	5	6
188	D242	Ayke	2	2	2	4	4
189	D244	Rek	2	2	4	5	4
190	D249	Rex	1	2	1	5	6
191	D253	Ben	2	2	1	5	5
192	D255	Ano	1	1	3	5	6
193	D256	Mike	2	2	2	5	6
194	D257	Nero	2	2	4	5	7
195	D262	Donna	4	2	2	5	3
196	E001	Rico	1	1	3	5	6
197	E016	Lukie	1	1	4	5	4
198	E021	Basco II	1	1	4	5	5
199	E026	Raudi	2	2	2	5	5
200	E028	Kenny	1	2	2	5	4
201	E029	Gas	1	2	2	5	4
202	E030	Monty	2	2	4	5	5
203	E034	Brit	2	6	3	3	8
204	E035	Six II	1	2	4	5	5
205	E039	Borris	1	1	4	5	3
206	E044	Dino	2	2	4	5	5
207	E050	Santo	1	2	4	5	4
208	E058	Robby	1	2	1	5	4
209	E070	Bruno	2	2	4	5	4
210	E073	Tanja	4	1	2	5	6
211	E075	Bodie	4	2	1	5	5
212	E076	Cven	1	2	3	5	4
213	E084	Irina	4	2	4	5	6
214	E090	Bad	1	1	1	5	6
215	E091	Benn	1	2	2	5	6

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
216	E095	Bak	1	2	1	5	5
217	E097	Aladar	1	3	2	5	6
218	E102	Rokka	1	2	4	5	4
219	E103	Zasko	1	1	2	5	4
220	E111	Aris	1	2	2	5	4
221	E112	Nouska	4	1	1	5	6
222	E113	Marko	1	2	1	5	6
223	E114	Goro	2	2	2	5	4
224	E116	Cliff	2	1	2	5	3
225	E117	Dodo	2	2	1	5	6
226	E119	Rocko	2	2	1	5	3
227	E138	Gudy	1	2	1	5	3
228	E142	Mongo	1	1	1	5	5
229	E145	Rogue	1	1	2	5	4
230	E150	Yuma	4	2	3	5	5
231	E156	Ronnie	1	2	1	5	5
232	E160	JP	2	1	2	5	3
233	E168	Rex	1	2	4	5	3
234	E170	Heri	2	2	1	5	6
235	E182	Zorro	2	2	2	5	7
236	E186	Ajax	2	2	2	5	5
237	E191	Bad	1	2	1	5	4
238	E205	Britt	1	2	1	5	4
239	E217	Blackie	1	3	1	5	6
240	E221	Siro	2	2	4	5	4
241	E222	Pate	1	1	1	5	7
242	E223	Albert	1	1	2	5	4
243	E225	Bosco	1	1	2	3	4
244	E235	Youri	1	1	4	5	4
245	E238	Dak	1	2	1	5	5
246	E239	Rexo	2	2	1	5	7

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
247	E250	Rudy	2	1	1	4	6
248	E254	Cisko	1	1	4	5	4
249	E257	Tina	4	2	2	5	6
250	E259	Kera	4	2	2	5	5
251	E279	Charlie	2	2	4	5	4
252	E292	Cindy	4	1	4	5	3
253	E296	Nero	1	2	2	5	4
254	E298	Prins	2	2	3	5	7
255	E300	Rexo	1	2	2	5	7
256	E302	Roy	2	2	1	5	5
257	E304	Mido	1	1	1	5	4
258	E308	Ficko	1	2	2	5	5
259	E309	Natz	1	2	1	5	3
260	E311	Nero	2	2	3	5	5
261	E313	Gordon	2	2	4	5	3
262	F000	Frisko	2	2	2	5	5
263	F003	Jack	2	2	1	5	4
264	F016	Rexo	2	2	1	5	4
265	F020	Brutis	1	2	1	5	5
266	F032	Karo	1	2	4	5	5
267	F051	Ben	1	2	3	5	4
268	F054	Rex	2	2	1	4	4
269	F065	Rex	1	2	2	5	4
270	F070	Perda	1	2	1	5	6
271	F072	Benny	1	2	3	5	7
272	F074	Rex	1	1	1	3	5
273	F089	Ringo	2	3	1	5	5
274	F094	Andy	1	2	1	5	4
275	F095	Sam	1	1	2	5	3
276	F096	Chico	1	2	1	5	4
277	F101	Rek	1	2	1	5	3

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
278	F102	Rex	1	2	1	5	7
279	F114	Emax	2	2	2	5	5
280	F121	Gypsy	4	2	2	5	3
281	F125	Rex	2	2	1	5	4
282	F145	Bernie	4	1	4	5	3
283	F160	Carla	4	1	1	5	4
284	F196	Fabian	1	2	4	5	2
285	F202	Solo	1	1	4	5	4
286	F209	Rexo	1	2	1	5	5
287	F211	Ardy	1	2	1	5	5
288	F217	Dasty	1	2	1	5	4
289	F218	Beny	1	2	1	4	3
290	F227	Gris	2	2	4	5	4
291	F233	Ali	1	2	4	5	4
292	F237	Rex5	2	2	1	5	3
293	F238	Kitt	2	2	3	3	4
294	F243	Micki	2	1	1	5	4
295	F246	Max	1	1	1	5	3
296	F249	Rambo	1	2	1	5	4
297	F252	Cris	2	1	1	5	4
298	F254	Kibo	1	2	2	5	5
299	F258	Rico III	2	1	4	3	3
300	F281	Zorby	2	2	1	5	4
301	F285	Marco	1	3	4	5	3
302	F286	Ziko	1	2	2	5	4
303	F289	Bono	2	2	4	5	2
304	F291	Rex	2	1	4	5	3
305	F298	Rony	1	2	1	5	5
306	F299	Sando	1	2	4	3	3
307	F306	Chan	1	2	3	3	3
308	F310	Black	2	2	1	5	4

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
309	F311	Doran	1	2	2	5	4
310	F337	Carlos	2	3	2	5	3
311	F339	Bonnie	4	1	4	5	4
312	F350	Adja	4	2	4	3	3
313	F367	Beny	1	2	4	5	3
314	F369	Car	1	2	4	5	3
315	F374	Tommy	2	2	4	5	2
316	F381	Flapoor	2	1	4	5	4
317	F384	Lion	2	1	3	3	3
318	F385	Cir	1	2	2	5	3
319	F386	Eric	1	1	3	5	3
320	F390	Duuk	1	2	1	5	3
321	F393	Talley	2	2	1	5	3
322	F395	Tino	1	1	4	5	3
323	F398	Rolf	2	2	4	5	3
324	F403	Misti	4	1	1	5	4
325	F417	Boniface	2	2	4	3	4
326	F418	Roxy	4	1	1	5	5
327	F419	Elra	4	1	2	5	3
328	F423	Ajax	2	2	2	5	5
329	F426	Ffax	1	1	4	5	2
330	F429	Ffaust	2	1	3	5	3
331	F430	Ffifteen	2	1	2	5	4
332	F433	Alma	4	2	4	3	3
333	F445	Talon	1	4	3	3	4
334	F456	Devyl	2	2	1	5	4
335	F462	Rex	1	1	4	5	3
336	F464	Sany	1	2	2	5	4
337	F466	Max	2	2	1	5	3
338	F469	Zito	1	2	1	5	3
339	F471	Karlo	2	2	1	5	4

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
340	F487	Benjo	1	2	2	5	5
341	F488	Caro	2	2	4	5	4
342	F521	Amigo	2	2	1	4	4
343	F531	Magnum	2	4	1	7	4
344	F533	Muro	1	2	1	4	3
345	F543	Panter	1	2	4	5	4
346	F544	Bico	1	1	2	5	5
347	F550	Cora	4	2	4	5	4
348	F554	Rex 4	2	2	2	5	4
349	F570	Arik	1	2	1	2	3
350	F583	Wandor	1	1	1	5	4
351	F590	Argo	2	2	2	5	3
352	F591	Bad	2	2	4	5	3
353	F605	Ggabbi	4	1	2	5	3
354	F612	Dita	4	1	4	5	4
355	F617	Wita	4	1	4	5	3
356	F632	Laika	4	1	2	5	4
357	F715	Buno	2	11	1	7	3
358	F716	Cabor (K-bar)	1	4	1	7	4
359	F726	Figo	4	10	1	7	3
360	F727	Jay	1	11	1	7	3
361	F730	Euro	1	1	4	7	5
362	F732	Hans	2	2	4	7	3
363	F738	Pasha	2	1	4	7	2
364	F740	Dina	4	1	4	7	2
365	F742	Kiddy	4	1	4	7	2
366	H000	Riko	1	2	1	5	5
367	H023	Cento	2	2	1	4	3
368	H044	Ronnie	1	1	1	4	3
369	H051	Akim	1	2	1	4	2

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
370	H055	Shaman	2	2	1	4	3
371	H064	Arco	1	2	3	5	3
372	H067	Chef	1	1	3	5	3
373	H073	Dasty	1	2	1	4	4
374	H088	Ireland	4	1	4	3	5
375	H100	Beyco	4	2	4	5	4
376	H109	Ziko	1	2	1	3	2
377	H147	Kevin	2	1	4	5	4
378	H155	Rex	1	2	1	5	4
379	H177	Britta	4	2	3	3	3
380	H178	Zissi	4	2	3	3	4
381	H182	Mandy	4	1	1	3	4
382	H183	Asta	4	1	1	5	3
383	H188	Rita	4	2	3	3	3
384	H202	Jjackson	1	1	2	5	3
385	H203	Baiky	1	2	2	4	2
386	H218	Alik	1	2	3	3	4
387	H240	Bak	1	2	3	5	5
388	H251	Bodo	1	2	1	5	4
389	H253	Bingo	1	2	4	5	3
390	H259	Rex	1	2	3	5	3
391	H268	Cindy	4	2	4	5	3
392	H287	Jjaycee	4	1	4	5	2
393	H296	Emir	2	2	1	5	4
394	H302	Llaw	1	3	1	5	3
395	H304	Llewis	1	3	1	5	3
396	H309	Barasco	1	1	4	5	4
397	H310	Rexo	1	2	1	5	4
398	H314	Andy	1	1	1	5	5
399	H330	Markava	1	2	4	5	3
400	H334	Charlie	2	2	2	5	3

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
401	H338	Jet	4	4	1	7	3
402	H346	Mike	1	2	2	5	4
403	H347	Jago	1	2	2	5	3
404	H349	Aron	1	2	4	5	4
405	H366	Dobo	1	8	4	8	4
406	H374	Beri	2	8	4	8	4
407	H377	Katja	4	1	2	5	3
408	J005	Alfa	4	2	1	4	5
409	J006	Lesko	1	2	3	1	3
410	J022	Ito	1	2	4	7	3
411	J030	Gory	1	2	1	4	2
412	J058	Arras	2	3	2	5	5
413	J134	Drumo	1	1	3	5	4
414	J146	Rambo	1	3	2	5	4
415	J148	Eros	1	2	4	7	3
416	J156	Cleo	4	1	4	7	4
417	J159	Tosca	4	1	2	3	4
418	J172	Nina	4	1	1	7	2
419	J175	MMattias	1	3	1	5	2
420	J180	Archie	1	4	1	7	2
421	J182	Lucky	1	4	1	7	2
422	J183	Xaro	1	4	1	7	3
423	J184	Dino	1	4	1	7	2
424	J212	Haryk	1	2	4	5	3
425	J232	Maxi	4	1	4	5	5
426	J253	Gero	1	2	1	5	3
427	J261	Kimbo	1	2	1	5	3
428	J262	Sped	1	4	4	7	2
429	J273	Brogi	2	4	1	7	4
430	J304	Schester	2	1	1	5	3
431	J341	Tim	1	1	2	5	3

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
432	J351	Roy	2	1	2	5	3
433	J375	Akim	2	1	2	3	3
434	J382	Rex	1	2	1	7	3
435	J385	Diego	1	4	1	7	2
436	J387	Ranger	1	4	4	8	4
437	J439	Ted	1	4	4	7	3
438	J465	Mink	1	2	3	5	3
439	J515	Cara	4	1	1	4	4
440	J535	Ace	2	4	1	7	3
441	J538	Gretchen	4	4	4	7	3
442	K005	Alf	2	2	1	5	2
443	K006	Cak	1	2	1	5	2
444	K024	Cumings	1	4	1	7	2
445	K026	Eddie	2	4	1	7	3
446	K041	Bruce	1	1	3	5	3
447	K062	Rony	1	2	1	4	2
448	K087	Body	1	4	4	7	3
449	K153	Gabe	1	4	1	7	4
450	K154	Cooper	1	4	1	7	2
451	K165	BJ	1	4	4	7	3
452	K167	Cezar	2	2	1	5	2
453	K196	Berry	1	2	4	8	3
454	K224	Yyasmin	4	1	4	8	2
455	K225	Slovi	2	2	4	3	3
456	K230	Zzisko	1	1	4	8	2
457	K242	Canelo	1	4	1	7	3
458	K350	Renzo	1	1	4	7	3
459	K459	Rona	4	1	4	5	2
460	K501	Cann	2	4	4	14	2
461	K504	Pearl	4	4	4	14	2
462	K505	Turbo	2	4	4	14	3

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
463	K508	Thor	2	4	4	14	2
464	L033	Streak	4	4	4	7	3
465	L510	Charlie	4	4	4	3	2
466	L511	Jammer	1	4	4	3	2
467	L515	Siebert	1	4	4	3	4
468	L516	Ace	1	4	4	3	2
469	L518	Goodwin	1	4	4	3	3
470	SP1	Boy	1	1	1	5	unknown
471	SP2	Dirk	1	1	1	5	unknown
472	SP3	Oscar	1	1	1	5	unknown
473	SP4	Brendan	2	3	1	5	unknown
474	SP5	Woodan	1	1	1	5	unknown
475	SP6	Morgan	2	3	1	5	unknown
476	SP7	Diesel	1	1	3	5	unknown
477	SP8	Arco	1	1	1	5	unknown
478	SP9	Iwan	1	1	1	5	unknown
479	SP10	Rocky	1	3	1	5	unknown
480	SP11	Ties	1	1	1	5	unknown
481	SP12	Pepper	4	1	1	5	unknown
482	SP13	Atos	1	1	1	5	unknown
483	SP14	Zipper	1	1	1	5	unknown
484	SP15	Vincent	1	1	1	5	unknown
485	SP16	Duke	1	1	1	5	unknown
486	SP17	Bonky	1	1	1	5	unknown
487	SP18	Joep	1	1	1	5	unknown
488	X098	Dax	1	1	1	2	11
489	X154	Bruno	2	1	1	4	10
490	X190	Tosca	4	3	1	4	10
491	Y004	Rico	2	1	2	5	12
492	Y167	Cheeta	4	3	2	5	10
493	Z071	Blesk	1	2	2	5	9

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
494	Z188	Elza	4	2	3	5	9
495	Z193	Bayca	4	2	3	5	9

Appendix J: Demographics of Eligible MWDs without Veterinary Clinical Events

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
1	A021	Nick	1	2	2	5	8
2	A072	Kim	1	2	1	4	8
3	A105	Anouska	4	1	3	4	10
4	A128	Roy	1	1	1	2	8
5	A169	Loy	2	1	2	5	9
6	A218	Pancho	2	1	2	5	9
7	A259	Bruno	1	1	2	5	10
8	A264	Ajaj	2	2	1	4	9
9	A296	Louis	2	2	2	5	8
10	A321	Ajax	1	2	1	5	8
11	A342	Baro	2	2	4	5	7
12	A349	Danny	1	2	4	5	8
13	A376	Berry	1	2	3	3	7
14	A382	Dino	1	2	4	5	8
15	B027	Sonja	4	1	2	3	8
16	B053	Dino	1	2	3	5	6
17	B068	Endy	1	2	1	5	6
18	B095	Jimmy	2	1	2	5	6
19	B104	Imo	2	2	3	4	8
20	B111	Beny	2	2	1	3	8
21	B116	Paco	2	2	4	4	10
22	B123	Cassidy	2	2	3	3	7
23	B143	Avar	2	2	2	5	8
24	B171	Goof	2	1	3	5	8
25	B178	Brit	2	2	2	4	9
26	B194	Rudy	2	1	1	5	6
27	B228	Kato	2	4	3	3	10

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
28	B237	Duko	2	1	2	5	7
29	B249	Gizmo	1	1	2	5	8
30	B263	Bak	2	2	4	5	6
31	B278	Ricky	2	2	2	5	5
32	B279	Laika	4	1	2	5	7
33	B294	Uvarted	2	1	1	5	8
34	B331	Eddo	2	2	4	5	6
35	B369	Ludo	2	3	3	4	7
36	B384	Tina	4	1	2	5	6
37	C030	Athos	2	1	2	5	5
38	C039	Torro	1	1	2	5	6
39	C052	Lion	2	1	2	5	6
40	C058	Aaslan	1	1	2	5	5
41	C067	Dexter	2	2	3	5	6
42	C076	DarGaro	2	2	2	5	5
43	C084	Kai	1	1	2	3	7
44	C086	Bonnie	1	2	2	5	6
45	C116	Ordy	1	2	1	5	9
46	C142	Aiko	1	1	1	5	9
47	C148	Rio	2	2	1	5	6
48	C152	Bino	2	3	1	4	9
49	C157	Rex II	2	2	2	5	8
50	C264	Harris	1	2	2	5	7
51	D012	Rex	1	2	3	4	6
52	D018	Rexo	1	2	1	4	6
53	D033	Ralf	2	2	2	5	6
54	D053	Caly	2	2	2	5	9
55	D060	Paco	1	5	3	5	4
56	D072	Rex	2	2	3	5	7
57	D114	Marco	1	1	2	3	5
58	D116	Gino	2	1	2	5	7

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
59	D175	Yossi	1	2	3	4	7
60	D188	Rexo	1	2	2	5	5
61	D190	Dago	2	2	3	3	6
62	D206	Paco	1	2	2	5	4
63	D210	Chang	1	2	4	5	6
64	D214	DDamian	1	1	3	5	4
65	D226	Eesau	2	1	2	5	3
66	D243	Sheryl	4	2	2	5	5
67	D245	Appie	2	1	3	5	6
68	D268	Dandy	2	2	2	5	4
69	E019	Jacco	1	2	3	5	5
70	E024	Cedo	1	2	1	5	6
71	E043	Robby	2	1	2	5	3
72	E045	Ganny	2	2	2	5	5
73	E049	Eddy	2	2	2	5	6
74	E055	Rocky	1	2	1	5	5
75	E061	Kevin	2	2	2	5	5
76	E069	Bronx	1	2	2	5	6
77	E072	Cassie	4	2	2	5	5
78	E089	Aron	1	2	2	5	3
79	E096	Cesar	2	2	3	5	6
80	E101	Riki	1	2	2	5	7
81	E105	Rocki	2	2	2	5	6
82	E132	Lex	2	2	4	5	4
83	E133	Rony	1	2	2	5	4
84	E137	Nick	2	2	4	5	4
85	E146	Salli	4	2	2	5	6
86	E171	Harris	1	2	2	5	2
87	E192	Nero	1	2	3	5	5
88	E193	Jack	1	2	4	5	4
89	E210	Buco	1	1	1	5	3

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
90	E211	Rex	2	2	1	5	3
91	E227	Tom	2	2	1	5	6
92	E228	Argo	1	2	2	5	5
93	E258	Hanna	4	1	1	5	7
94	E285	Rita	4	2	4	3	5
95	E287	Boda	4	2	4	3	3
96	E290	Spike	1	1	2	5	4
97	E294	Charlie	1	2	2	5	5
98	E295	Brit	1	2	3	5	4
99	F002	Roby	1	2	2	5	4
100	F009	GreK	2	2	3	5	4
101	F012	Rex	2	2	2	3	3
102	F013	Brix	1	2	3	3	3
103	F017	Anty	2	2	3	5	3
104	F030	Pocket	2	2	1	4	3
105	F036	Teiger	1	2	4	4	8
106	F038	Lasso	2	2	2	4	5
107	F050	Rambo	2	1	4	3	4
108	F062	Agar	2	2	2	5	5
109	F068	Brit	1	2	2	5	4
110	F086	Sam	1	1	3	5	3
111	F092	Jack	2	2	3	5	4
112	F112	Joll	1	2	3	3	7
113	F120	Jago	2	2	2	5	6
114	F122	Luigi	2	2	1	3	3
115	F124	Rick	2	2	3	5	5
116	F127	Spike	1	1	4	5	4
117	F144	Sammy	4	2	1	3	5
118	F157	Polly	4	2	4	5	3
119	F159	Suzi	4	2	3	5	5
120	F168	Bimbo	1	2	1	4	3

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
121	F173	Vendy	4	2	4	5	4
122	F175	Lucky	4	4	3	3	5
123	F181	Rocky	2	2	4	5	2
124	F183	Brix	1	2	2	5	4
125	F185	Brit	1	2	2	5	4
126	F186	Cezar	1	2	2	5	5
127	F195	Gabber	1	2	4	3	6
128	F198	Brik	1	2	4	5	3
129	F212	Rex II	1	1	1	5	5
130	F216	Bak	2	2	3	3	4
131	F239	Packo	1	1	1	5	4
132	F241	Max II	1	3	1	5	3
133	F250	Vero	1	2	2	3	5
134	F263	Duko	1	1	1	5	3
135	F280	Sara	4	2	3	5	4
136	F283	Max	2	1	3	3	3
137	F284	Dasty	1	2	2	5	3
138	F287	Pele	1	2	3	3	3
139	F292	King	2	1	2	5	5
140	F300	Aron	2	2	2	5	4
141	F301	Bady	1	2	3	5	4
142	F312	Bagir	2	2	3	3	4
143	F334	Dicky	4	1	3	5	3
144	F335	Dena	4	2	2	4	5
145	F340	Fendy	4	1	2	5	4
146	F344	Rex	2	1	2	5	4
147	F346	Raika	4	1	3	3	3
148	F348	Luna	4	2	4	5	3
149	F349	Conny	4	2	2	5	6
150	F370	Dingo	2	2	4	5	4
151	F375	Kastor	2	2	4	3	4

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
152	F383	Art	2	2	3	3	3
153	F391	Fredi	1	2	4	3	2
154	F392	Rex	1	1	2	5	6
155	F412	Fada	4	2	3	3	5
156	F421	Uran	2	2	2	5	4
157	F422	Winnie	4	1	3	5	3
158	F436	Ffagan	4	1	3	3	2
159	F451	Baron	1	2	2	5	4
160	F465	Allen	1	2	4	5	3
161	F484	Cezar	2	2	1	5	5
162	F486	Tino	1	1	4	5	2
163	F499	Dakota	4	1	2	5	3
164	F527	Jannie	4	1	2	5	4
165	F545	Jonny	1	2	1	5	3
166	F547	Rony	1	2	2	5	3
167	F560	Baro	1	2	1	4	4
168	F582	Tembo	1	1	1	4	3
169	F599	Laika	4	1	4	5	3
170	F610	GGina	4	1	2	5	4
171	F620	Lando	2	1	1	5	6
172	F621	Beast	4	1	1	5	5
173	F728	Johnny	1	2	4	7	4
174	F731	Tigo	2	1	4	7	4
175	F739	Arko	1	1	4	7	3
176	F741	Axel	1	2	4	7	2
177	H009	Hhero	1	1	2	5	4
178	H029	Zico	2	2	2	5	4
179	H039	Igor	1	5	2	5	3
180	H056	Ikka	4	1	2	5	3
181	H063	Brit	1	7	3	5	2
182	H066	Puck	1	3	3	7	3

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
183	H077	Hhope	4	1	2	5	4
184	H103	Iindy	1	1	2	5	3
185	H108	Diego	2	1	2	5	3
186	H111	Dingo	1	1	3	5	2
187	H116	Alex	1	2	2	5	5
188	H120	Rex	1	2	2	5	3
189	H126	Boxy	1	2	4	5	3
190	H128	Matso	2	2	1	5	3
191	H129	Lasso	1	2	1	5	4
192	H142	Rex	1	2	4	5	3
193	H144	Dano	1	2	4	5	3
194	H145	Buddy	1	1	1	5	3
195	H146	Waldo	2	1	4	5	3
196	H149	Robbie	1	1	2	5	4
197	H150	Damiaan	2	2	3	3	4
198	H156	Harry	1	1	2	3	4
199	H159	Ruby	4	1	1	5	5
200	H161	Suhaj	2	2	4	5	3
201	H162	Rex	2	2	4	5	2
202	H163	Bady	1	2	3	5	5
203	H165	Horst	1	2	4	5	3
204	H171	Rexo	2	2	4	5	3
205	H180	Loeka	4	1	2	5	3
206	H184	Jesa	4	2	2	5	3
207	H187	Darra	4	2	4	5	4
208	H199	Blek	2	2	2	5	2
209	H211	Arzan	1	1	4	4	5
210	H221	Jack	1	2	4	5	3
211	H222	Pluto	1	1	3	5	3
212	H223	Walker	1	2	2	5	3
213	H228	Waldo	1	2	3	5	4

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
214	H245	Max	1	2	4	5	3
215	H246	Hexa	4	2	4	5	4
216	H247	Crock	1	2	1	5	4
217	H255	Les	1	2	3	5	3
218	H257	Argo	1	2	3	5	3
219	H260	Crock	2	2	1	5	3
220	H261	Bodo	1	2	1	5	3
221	H275	Bancuk	4	1	4	5	3
222	H288	Eddy	1	2	2	5	3
223	H289	Blade	2	3	4	3	4
224	H300	Llance	2	3	2	5	4
225	H319	Backer	2	2	4	5	4
226	H322	Blesk	1	2	1	5	3
227	H327	Baro	1	2	3	5	4
228	H333	Uli	1	2	3	5	2
229	H348	Max	1	2	2	5	3
230	H354	Gerald	1	2	3	3	5
231	H358	Fons	2	1	1	5	4
232	H364	Tequila	4	4	1	7	2
233	H395	Carlos	1	2	2	3	3
234	J069	Lusy	4	2	3	4	4
235	J121	Judy	1	1	2	5	3
236	J154	Oscar	1	1	4	7	3
237	J158	Aja	4	2	4	7	3
238	J165	Cross	4	1	4	7	3
239	J170	Anca	4	2	4	7	4
240	J198	Haro	1	2	2	5	3
241	J225	Black	1	4	1	7	2
242	J230	Knuppel	1	1	1	5	4
243	J234	Milo	1	4	4	8	3
244	J237	Bingo	1	2	1	5	2

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
245	J238	Buli	1	1	2	5	2
246	J239	Bratling	2	3	2	5	3
247	J254	Baron	1	1	1	5	3
248	J281	Lio	1	2	1	5	4
249	J284	Oorlando	1	1	4	5	3
250	J288	Oolivia	4	1	2	5	2
251	J290	Nnick	1	1	3	5	3
252	J291	Era	4	2	1	7	2
253	J292	Nora	4	4	4	8	3
254	J293	Nnorman	2	1	2	4	3
255	J298	Gino	1	2	4	5	3
256	J309	Randy	1	1	1	5	5
257	J327	Dasti	2	2	1	5	3
258	J344	Blacky	1	2	2	5	2
259	J400	Charly	1	4	1	7	3
260	J427	Lucy	4	4	4	8	2
261	J433	Brenda	4	2	4	5	3
262	J459	Goliat	1	2	1	5	3
263	J481	Hombre	1	2	4	5	3
264	J483	Zoran	2	2	4	5	3
265	K008	Hopski	1	2	3	5	3
266	K013	Aris	1	2	3	5	3
267	K029	Bak	1	2	4	5	3
268	K073	Ellis	4	2	4	7	3
269	K076	Esta	4	2	2	5	3
270	K105	Tilly	4	1	2	5	2
271	K110	Chay	4	1	1	4	3
272	K217	Jack	1	4	4	8	2
273	K244	Taser	2	4	1	7	2
274	K298	Valdo	2	1	3	5	4
275	K300	Marco	2	1	1	5	3

	MWD TATTOO	MWD NAME	MWD GENDER	MWD BREED	MWD BRANCH	MWD CERTIFICATION	AGE AT FIRST DEPLOYMENT
276	K351	Max	1	1	2	3	3
277	K356	Kito	1	2	4	5	3
278	K360	JR	1	1	1	7	2
279	K409	Bubba	4	4	4	7	3
280	K484	Kelsey	4	1	4	4	2
281	K499	Basco	1	1	3	4	3
282	K500	Joesie	4	4	4	14	2
283	K502	Clay	2	4	4	14	2
284	K503	Boss	1	4	4	14	1
285	K506	Daisey	4	4	4	14	2
286	K507	Trouble	4	4	4	14	3
287	K511	Basco	1	1	3	5	4
288	K517	Yona	4	1	4	7	3
289	K520	Thomas	1	1	4	5	3
290	K523	Max	1	1	3	5	4
291	L006	Rex	1	1	4	5	2
292	L071	Basa	1	1	4	5	2
293	L201	Athos	1	1	4	8	4
294	L512	Katie	4	4	4	3	2
295	L513	Mocha	4	4	4	3	3
296	L517	Dakota	4	4	4	3	3
297	Y020	Zorro	2	1	1	5	12
298	Y039	Basco	1	1	2	5	10
299	Z154	Rex	1	1	4	5	9

Appendix K: Veterinary Clinical Events for Each MWD by Tattoo

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1	A037	5	B4B	B		
2	A037	4	GH2B1	GH		
3	A037	1	MS1M4A	MS	0	0
4	A037	3	OP11	OP	0	0
5	A037	2	SB	SB	0	0
6	A039	1	DM4A1	DM	0	0
7	A039	3	GH1R	GH	0	0
8	A039	2	MC11	MC	0	0
9	A039	4	SN1G	SN		
10	A040	4	GH2A1	GH	0	0
11	A040	1	N9D1	N	1	0
12	A040	6	N9D2	N		
13	A040	5	N9E	N	0	0
14	A040	3	N9F1	N	0	0
15	A040	2	OP6	OP	0	0
16	A061	1	GH1P3	GH	0	0
18	A062	2	MS1M4A	MS	0	0
19	A062	3	MS1M4A	MS	0	0
20	A062	1	T3A	T	0	0
21	A065	1	MS1M3B	MS	0	0
22	A071	5	MS1M3B	MS	1	0
23	A071	2	N9F2	N	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
24	A071	1	OT1	OT	0	0
25	A071	3	SN1B	SN	1	0
26	A071	6	SN1B	SN	1	0
27	A071	9	SN1C	SN	1	0
28	A071	7	SN1D	SN	1	0
29	A071	8	SN1E	SN	1	0
30	A071	4	SN1G	SN	1	0
31	A076	3	DM4A1	DM	0	0
32	A076	2	GH2A2	GH	0	0
33	A076	1	MS1M4A	MS	0	0
34	A093	1	GH1B3	GH	0	0
35	A100	2	DM4C1	DM	0	0
36	A100	5	DM4C1	DM	0	0
37	A100	4	ME	ME	0	0
38	A100	6	MS1M2	MS	0	0
39	A100	1	MS1M4B	MS	0	0
40	A100	3	SN1B	SN	0	0
41	A104	2	DM4G6	DM	0	0
42	A104	1	DM4P1	DM	0	0
43	A113	2	DM2C	DM	0	0
44	A113	1	DM4G5	DM	0	0
45	A113	3	DM4K1	DM	1	0
46	A120	1	OP10	OP	1	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
47	A123	1	UG5	UG	0	0
48	A140	1	MS1M3A	MS	0	1
49	A140	2	T2B	T	0	1
50	A142	2	DM4N1	DM	0	0
51	A142	4	DM4N6	DM	0	0
52	A142	5	GH2B2	GH	0	0
53	A142	3	MC15B	MC	0	0
54	A142	1	T3C	T	0	0
55	A153	3	GH1R	GH	0	0
56	A153	1	GH2A1	GH	0	0
57	A153	2	GH2B2	GH	0	0
58	A155	2	DM1B	DM	0	0
59	A155	1	MC1	MC	0	0
60	A155	4	MC5	MC	0	0
61	A155	3	MS1M2	MS	0	0
62	A159	1	DM4B1	DM	0	0
63	A161	2	DM4A3	DM	1	0
64	A161	3	DM4A3	DM	1	0
65	A161	1	DM4P2	DM	0	0
66	A161	5	DM4R	DM	0	0
67	A161	4	T20A	T	0	0
68	A211	3	DM4N5	DM	0	0
69	A211	5	GH1P2	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
70	A211	4	GH1P3	GH	0	0
71	A211	6	GH2A1	GH	0	0
72	A211	1	MC15A	MC	0	0
73	A211	2	P1	P	0	0
74	A219	4	GH1P2	GH	0	0
75	A219	2	MS1M3A	MS	0	0
76	A219	1	MS1M3B	MS	0	0
77	A219	5	MS1M3B	MS	0	0
78	A219	3	T17A	T	0	0
79	A237	1	UG2C	UG	0	0
80	A237	2	UG3A	UG	0	0
81	A244	1	MS1M3B	MS	1	0
82	A247	10	DM4G11	DM	0	0
83	A247	1	GH1B1	GH	0	0
84	A247	6	GH1B3	GH	0	0
85	A247	5	GH2A2	GH	0	0
86	A247	8	HT2	HT	0	0
87	A247	2	MC3	MC	0	0
88	A247	3	MS1G2	MS	0	0
89	A247	9	MS1M2	MS	1	0
90	A247	7	MS1M4B	MS	1	0
91	A247	4	V2	V	0	0
92	A271	2	B3A	B	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
93	A271	1	GH1B3	GH	0	0
94	A271	4	GH1E	GH	0	0
95	A271	6	MS1M3A	MS	0	0
96	A271	7	MS1M4A	MS	0	0
97	A271	3	OT6	OT	0	0
98	A271	5	T13B	T	0	0
99	A287	1	N9H	N	1	0
100	A295	2	DH2	DH	0	0
101	A295	1	MC10	MC	0	0
102	A295	3	T15A	T	0	0
103	A317	1	GH1A	GH	0	0
104	A317	2	GH1P3	GH	0	0
105	A325	1	GH1P3	GH	0	0
106	A343	2	DM4G10	DM	0	0
107	A343	1	GH1A	GH	0	0
108	A343	4	GH1P2	GH	0	0
109	A343	3	T2C	T	0	0
110	A344	1	MS1M6	MS	0	0
111	A344	2	UG7	UG	0	0
112	A345	5	C2	C	0	0
113	A345	13	C2	C		
114	A345	1	DM1C	DM	0	0
115	A345	4	GH2A1	GH	1	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
116	A345	7	SN1C	SN	0	0
117	A345	3	SN2E	SN	0	0
118	A345	8	T13C	T	0	0
119	A345	6	UG4B	UG	0	0
120	A345	2	UG6A	UG	0	0
121	A352	6	GH1K5A	GH	0	0
122	A352	5	MC7C	MC	0	0
123	A352	2	MS1M3A	MS	0	0
124	A352	3	Ms1M4A	MS	0	0
125	A352	1	SN2A	SN	1	0
126	A352	4	T17C	T	0	0
127	A360	1	OT4A	OT	0	0
128	A371	1	MC2B	MC	0	0
129	A371		DH5	DH		0
130	A371		N4A	N		0
131	A371		N4C	N		0
132	A372	1	OT5	OT	0	0
133	A381	1	T2D	T	0	0
134	B003	2	B7A	B	0	0
135	B003	3	GH1P2	GH	0	0
136	B003	4	GH1R	GH	0	0
137	B003	1	MC7A	MC	0	0
138	B003	5	SB	SB	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
139	B006	1	MS1M4B	MS	0	0
140	B014	1	MS1E2	MS	0	0
141	B016	1	DM4P1	DM	0	0
142	B016	6	GH2A1	GH	0	0
143	B016	4	GH2A2	GH	0	0
144	B016	5	MC1	MC	0	0
145	B016	7	OP7	OP	0	0
146	B016	3	SN1CA	SN	0	1
147	B016	8	SN1D	SN	0	0
148	B016	2	T10D1	T	0	1
149	B018	1	MS1M7	MS	1	0
150	B021	2	T17B	T	0	0
151	B021	1	T3J	T	0	0
152	B022	1	MS1M3A	MS	0	0
153	B029	1	MS1M4A	MS	0	0
154	B032	1	SB	SB		
155	B032	2	SN1F	SN		
156	B036	1	DM1B	DM	0	0
157	B036	3	GH1R	GH	0	0
158	B036	2	MC7A	MC	0	0
159	B036	5	ME	ME	0	0
160	B036	4	R2	R	0	0
161	B036	6	R7	R	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
162	B036		DH5	DH		0
163	B036		N1	N		
164	B041	4	T16	T	0	0
165	B041	1	T2C	T	0	0
166	B041	2	T2C	T	0	0
167	B041	3	T2C	T	0	0
168	B042	1	T3D	T	0	0
169	B047	1	GH1K5	GH	0	0
170	B047	2	MC7A	MC	0	0
171	B050	2	OT1	OT	0	0
172	B050	1	OT4A	OT	0	0
173	B050	3	T3E	T	0	0
174	B056	3	DM4C1	DM	0	0
175	B056	2	DM4G7	DM	0	0
176	B056	4	HT1	HT	0	0
177	B056	5	T17D	T	0	1
178	B056	1	T3F	T	0	0
179	B089	1	MS1M3A	MS	0	0
180	B089	2	T10D4	T	0	1
181	B091	3	N3	N	0	0
182	B091	1	T15B	T	0	0
183	B091	2	T3E	T	0	0
184	B106	1	GH1H3	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
185	B106	2	GH1P2	GH	0	0
186	B106	4	MC19	MC	0	0
187	B106	3	MS1M3B	MS	0	0
188	B107	1	MS1M8	MS	0	0
189	B108	1	T3K	T	0	1
190	B108	2	UG2A	UG	0	0
191	B131	1	DM3C	DM	0	0
192	B131	2	MS1M4A	MS	0	0
193	B135	4	GH1B3	GH	0	0
194	B135	3	GH1P2	GH	0	0
195	B135	2	GH2A1	GH	0	0
196	B135	6	MS1M6	MS	0	0
197	B135	5	N9J	N	0	0
198	B135	1	T2C	T	0	0
199	B142	2	DM4M3	DM	0	0
200	B142	1	GH1	GH	0	0
201	B144	1	MS1E3	MS	0	0
202	B155	1	N9B	N	0	0
203	B157	1	DM4T	DM	0	0
204	B164	6	ME	ME	0	0
205	B164	1	MS1D2	MS	1	0
206	B164	4	OT1	OT	0	0
207	B164	3	SN1A	SN	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
208	B164	2	V1	V	0	0
209	B164	5	V2	V	0	0
210	B190	1	GH2D	GH	1	0
211	B201	1	B4A	B	0	0
212	B201	11	GH1B1	GH	0	0
213	B201	7	MC12A	MC	1	0
214	B201	2	MC6A2	MC	0	0
215	B201	6	MC8	MC	0	0
216	B201	9	MS3B	MS	1	0
217	B201	10	OT4A	OT	0	0
218	B201	3	SN1CB	SN	0	0
219	B201	4	SN1E	SN	0	0
220	B201	8	SN1E	SN	1	0
221	B201	5	T3M	T	0	0
222	B217	1	OP4B	OP	0	0
223	B218	5	DM3A	DM	0	0
224	B218	1	MC1	MC	0	0
225	B218	4	MC1	MC	0	0
226	B218	9	ME	ME	0	1
227	B218	8	MS1M7	MS	0	1
228	B218	7	UG2C	UG	0	0
229	B218	3	UG4B	UG	0	0
230	B218	6	UG5	UG	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
231	B218	2	UG6D	UG	0	0
232	B222	1	DM4B2	DM	0	0
233	B233	2	C3	C	0	0
234	B233	1	ME	ME	0	0
235	B233		DH3	DH		0
236	B233		N4A	N		0
237	B233		N4B	N		0
238	B234	2	MS1E1	MS	0	0
239	B234	1	MS3D1	MS	0	0
240	B239	2	GH1M	GH	0	0
241	B239	1	T2A	T	0	0
242	B241	1	UG4A	UG	1	0
243	B246	1	GH1D	GH	0	0
244	B256	1	GH1A	GH	0	0
245	B266	4	DM4A3	DM	0	0
246	B266	1	GH1P2	GH	0	0
247	B266	2	MS1M4B	MS	0	0
248	B266	3	R6	R	0	0
249	B282	1	GH2A2	GH	0	0
250	B295	6	C1	C	0	0
251	B295	4	DM4E4	DM	0	0
252	B295	1	MC16	MC	0	0
253	B295	5	MS1D1	MS	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
254	B295	2	MS1M4B	MS	0	0
255	B295	3	OT4A	OT	0	0
256	B297	1	GH2A1	GH	0	0
257	B297	2	GH2B2	GH	0	0
258	B297	3	IM2A	IM	0	0
259	B303	1	OP12	OP	0	0
260	B303	2	SN1G	SN	1	0
261	B310	8	DM4G9	DM	0	0
262	B310	1	GH1B1	GH	0	0
263	B310	6	MC7A	MC	0	0
264	B310	7	MC9	MC	0	0
265	B310	4	MS1M3B	MS	0	0
266	B310	2	MS3C	MS	0	0
267	B310	5	OP2	OP	0	0
268	B310	3	T19B	T	0	0
269	B314	1	MC4	MC	0	0
270	B318	1	MS1G2	MS	1	0
271	B318	2	MS1M4B	MS	1	0
272	B337	2	DM4N2	DM	0	0
273	B337	1	T16A	T	0	0
274	B339	1	OT4A	OT	1	0
275	B349	1	T6A	T	0	1
276	B359	2	B5C	B	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
277	B359	1	DM4G9	DM	1	0
278	B361	3	GH1B3	GH	0	0
279	B361	4	GH1P2	GH	0	0
280	B361	2	GH1P3	GH	0	0
281	B361	5	GH1R	GH	0	0
282	B361	6	MC12B	MC	0	0
283	B361	8	MS1M3B	MS	1	0
284	B361	1	OT4A	OT	0	0
285	B361	7	SN1G	SN	1	0
286	B363	2	DH2	DH		
287	B363	1	T12E	T	0	0
288	B363		T6B	T	0	0
289	B364	1	N9D1	N	0	0
290	B367	1	DM1B	DM	0	0
291	B377	5	MC12B	MC	0	1
292	B377	1	MS1M7	MS	0	1
293	B377	3	OP9	OP	0	1
294	B377	4	SN1D	SN	0	1
295	B377	2	T5A	T	0	1
296	B386	2	GH2C	GH	0	0
297	B386	1	OT5	OT	1	0
298	C005	1	DM4G7	DM	0	0
299	C013	2	GH1H2	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
300	C013	1	MS1G1	MS	0	0
301	C025	5	GH1C	GH	0	0
302	C025	3	GH2A1	GH	0	0
303	C025	4	GH2B2	GH	0	0
304	C025	1	ME	ME	0	1
305	C025	2	T3B	T	0	1
306	C026	1	SN1G	SN	1	0
307	C038	2	MS3A	MS	0	0
308	C038	1	OP10	OP	0	0
309	C046	1	DM4K4	DM	0	0
310	C049	1	GH1B2	GH	0	0
311	C049	2	GH1E	GH	0	0
312	C049	3	N9	N	0	0
313	C061	3	EX	EX	0	1
314	C061	1	GH1B1	GH	0	0
315	C061	2	ME	ME	0	1
316	C061	4	T17A	T	0	1
317	C061	5	T3H	T	0	1
318	C072	2	DM4C3	DM	0	0
319	C072	1	GH1D	GH	0	0
320	C072	3	MC1	MC	0	1
321	C072	4	T20A	T	0	1
322	C097	1	DM1B	DM	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
323	C097	2	GH1R	GH	0	0
324	C098	1	DM4D	DM	0	0
325	C098	3	GH2A2	GH	0	0
326	C098	2	T20A	T	0	0
327	C100	1	GH1B1	GH	0	0
328	C100	2	MS1M4B	MS	0	0
329	C101	3	B1A	B	0	1
330	C101	9	DM1D	DM	0	0
331	C101	11	DM4N2	DM	0	0
332	C101	5	OP2	OP	0	1
333	C101	6	OP8A	OP	0	1
334	C101	1	OT4A	OT	0	0
335	C101	8	OT4A	OT	0	0
336	C101	10	T1	T	0	0
337	C101	12	T1	T	0	0
338	C101	2	T10A	T	0	1
339	C101	7	T3G	T	0	1
340	C103	1	T3D	T	0	0
341	C107	1	DM4N4	DM	0	0
342	C113	1	DM3A	DM	0	0
343	C113	2	DM3B	DM	0	0
344	C120	4	DM4C2	DM	0	0
345	C120	1	GH1B1	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
346	C120	3	GH1B3	GH	0	0
347	C120	2	OT4A	OT	0	0
348	C120	5	T3D	T	0	0
349	C123	2	MC12B	MC	0	0
350	C123	3	MS1M2	MS	0	0
351	C123	1	SN1D	SN	0	0
352	C126	1	T3C	T	0	0
353	C130	4	DM4E2	DM	0	0
354	C130	5	DM4E6	DM	0	0
355	C130	3	EX	EX	0	0
356	C130	1	MC7A	MC	0	0
357	C130	2	UG2B	UG	0	0
358	C131	1	DM4G9	DM	0	0
359	C131	3	GH1B1	GH	0	0
360	C131	4	MC15C	MC		
361	C131	2	T3B	T	0	0
362	C138	1	GH1B1	GH	0	0
363	C138	2	GH1P2	GH	0	0
364	C143	2	DM4G11	DM	1	0
365	C143	1	GH1P2	GH	0	0
366	C143	4	GH1P2	GH	0	0
367	C143	3	GH1R	GH	0	0
368	C149	1	DM1E	DM	0	1

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
369	C149	2	T3B	T	0	1
370	C153	1	GH2A1	GH	0	0
371	C155	1	GH1P3	GH	0	0
372	C156	1	GH1B1	GH	0	0
373	C159	2	GH1P3	GH	0	0
374	C159	3	GH1P3	GH	0	0
375	C159	8	HT1	HT	0	0
376	C159	6	MC17	MC	0	0
377	C159	7	ME	ME	0	0
378	C159	5	MS1M2	MS	0	0
379	C159	1	OP8B	OP	0	0
380	C159	4	OP8B	OP	0	0
381	C160	5	EX	EX	0	0
382	C160	1	GH1P3	GH	0	0
383	C160	2	GH1R	GH	0	0
384	C160	4	HT4	HT	0	0
385	C160	3	MC6A2	MC	0	0
386	C161	1	T2C	T	0	0
387	C179	1	GH1A	GH	0	0
388	C189	1	GH1B1	GH		0
389	C189	2	MS1M4B	MS	1	0
390	C189	3	T20	T	0	0
391	C191	1	GH1P3	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
392	C198	3	DM4G9	DM	0	0
393	C198	1	GH1A	GH	0	0
394	C198	2	GH1B1	GH	0	0
395	C198	4	T17A	T	0	0
396	C200	1	OT4A	OT		
397	C207	2	DM4K3	DM	0	0
398	C207	1	GH1R	GH	0	0
399	C207	3	UG6A	UG	0	0
400	C211	1	OT7	OT	0	0
401	C211	3	OT7	OT	0	0
402	C211	2	T3K	T	0	0
403	C230	1	GH2A1	GH	0	0
404	C230	2	GH2A1	GH	0	0
405	C233	1	T3A	T	0	0
406	C234	1	DM4N4	DM	0	0
407	C235	4	DM1B	DM	0	1
408	C235	5	GH1B3	GH	0	0
409	C235	6	GH1P2	GH	0	0
409	D211	2	N3	N	0	0
410	C235	8	MC7C	MC		
411	C235	1	ME	ME	0	1
412	C235	3	MS3D1	MS	0	1
413	C235	7	SN1G	SN		

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
414	C235	2	T19A	T	0	1
415	C239	1	T10A	T	0	1
416	C241	1	OT4A	OT	0	0
417	C252	2	HT1	HT	1	0
418	C252	1	OT1	OT	0	0
419	C260	2	DM4G6	DM		0
420	C260	1	MS1M3B	MS	1	0
421	C270	1	GH1B1	GH	0	0
422	D001	3	DM4G8	DM	1	0
423	D001	2	OT4A	OT	0	0
424	D001	1	UG2D	UG	0	0
425	D006	1	MC11	MC	0	1
426	D009	1	C1	C	0	0
427	D009	2	DM4K2	DM		
428	D024	1	MS1M4B	MS	0	0
429	D030	1	UG2E	UG	0	0
430	D030	2	DH2	DH		1
431	D030	1	T12D	T	0	1
432	D030	1	T10A	T	0	1
433	D031	1	DM4P1	DM	0	0
434	D035	2	DM1B	DM	0	1
435	D035	1	T2C	T	0	0
436	D043	2	GH1B1	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
437	D043	1	T3G	T	0	1
438	D046	4	DM4N7	DM	0	0
439	D046	1	GH1B1	GH	0	0
440	D046	2	T8	T	0	
441	D046	3	UG6A	UG	0	0
442	D049	1	GH1D	GH	0	0
443	D055	1	DM2A	DM	0	0
444	D057	1	MS1M6	MS	0	0
445	D057	2	T17A	T	0	1
446	D058	2	MS1G2	MS	1	0
447	D058	1	MS1M4B	MS	1	0
448	D058	3	T2C	T	0	0
449	D063	1	T1B	T		
450	D067	1	OT4A	OT	0	0
451	D068	4	DM4A3	DM	0	0
452	D068	3	GH1B1	GH	0	0
453	D068	1	GH1D	GH	0	0
454	D068	2	GH1P2	GH	0	0
455	D070	3	DM1B	DM	0	0
456	D070	2	DM4G9	DM	0	0
457	D070	1	T3C	T	0	0
458	D098	1	DM4D	DM	0	0
459	D099	2	GH1B1	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
460	D099	1	UG5	UG	0	0
461	D101	2	DM4C1	DM	0	0
462	D101	3	IM2B	IM	0	0
463	D101	1	UG6B	UG	0	0
464	D102	1	GH2B1	GH	1	0
465	D104	2	MC6B	MC	0	0
466	D104	1	T18	T	0	0
467	D104	3	T3K	T	0	1
468	D105	1	T3K	T	0	1
469	D108	3	GH1A	GH	0	0
470	D108	1	GH1P3	GH	0	0
471	D108	4	MS1M4A	MS	0	0
472	D108	2	T20A	T	0	0
473	D108	2	DH2	DH	0	1
474	D108	1	T12A	T	0	1
475	D119	1	DM4C5	DM	5	0
476	D119	2	DM4G11	DM	0	0
477	D126	2	DM4F1	DM	0	0
478	D126	3	DM4G6	DM	0	0
479	D126	1	T1B	T	0	0
480	D131	1	GH1P2	GH	0	0
481	D131	2	T3D	T	0	0
482	D132	2	N9K	N	1	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
483	D132	1	T3	T	0	0
484	D135	2	DM4A3	DM	0	0
485	D135	1	GH1B1	GH	0	0
486	D135	3	MS1A	MS	1	0
487	D135	4	MS1E1	MS	1	0
488	D135	5	MS1M4B	MS	0	0
489	D141	1	GH1A	GH	0	0
490	D150	1	T3K	T	0	0
491	D151	1	GH1P2	GH	0	0
492	D151	2	OT4A	OT	0	0
493	D154	1	UG2C	UG		0
494	D155	1	T1B	T	0	0
495	D166	1	MC2A	MC	0	0
496	D167	1	OP4A	OP	0	0
497	D171	2	DM4D	DM	0	0
498	D171	1	OT4A	OT	0	0
499	D183	1	DM4G6	DM	0	0
500	D183	2	T10A	T	0	1
501	D183	3	T10B1	T	0	1
502	D205	2	GH1C	GH	0	0
503	D205	1	UG9	UG	0	0
504	D207	1	R11	R	0	0
505	D208	2	OT4A	OT	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
506	D208	1	T3D	T	0	1
507	D211	3	B2B	B	0	1
508	D211	4	B6A	B	0	1
509	D211	1	DM4C1	DM	0	0
510	D212	2	GH1P2	GH	0	0
511	D212	1	MS2B	MS	0	0
512	D236	1	DM4G1	DM	1	0
513	D236	3	IM1	IM	0	0
514	D236	2	OT4A	OT	1	0
515	D239	1	OT4A	OT	0	0
516	D240	1	MS1M1B	MS	0	1
517	D241	2	MS1M3A	MS	0	0
518	D241	1	R10	R	0	0
519	D242	3	DM2B	DM	1	0
520	D242	1	MS1M2	MS	1	0
521	D242	2	N9B	N	0	0
522	D244	1	GH1H1	GH	0	0
523	D249	1	GH2A2	GH	0	0
524	D249	2	T2C	T	0	0
525	D253	2	MC7A	MC	0	0
526	D253	1	OT4A	OT	0	0
527	D255	1	DM4G9	DM	1	0
528	D256	3	DM1C	DM	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
529	D256	2	DM4N4	DM	0	0
530	D256	1	V2	V	0	0
531	D257	1	MS1M6	MS	1	0
532	D262	3	DM4A1	DM	0	0
533	D262	5	DM4N4	DM	0	0
534	D262	9	EX	EX		
535	D262	2	GH1B1	GH	0	0
536	D262	4	GH1P2	GH	0	0
537	D262	1	GH1R	GH	0	0
538	D262	10	HT2	HT		
539	D262	8	MC2A	MC		
540	D262	6	MS1M3B	MS	0	0
541	D262	7	OT4A	OT	0	0
542	E001	2	DM4B	DM	0	0
543	E001	3	DM4F2	DM	0	0
544	E001	4	DM4G9	DM	1	0
545	E001	1	GH1A	GH	0	0
546	E016	3	DM4G9	DM	1	0
547	E016	2	GH1A	GH	0	0
548	E016	1	T20A	T	1	0
549	E021	2	MC1	MC	1	0
550	E021	1	T3B	T	0	1
551	E026	1	MC21	MC	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
552	E026	5	MC7C	MC	0	0
553	E026	3	MS1M4B	MS	1	0
554	E026	4	MS1M4B	MS	1	0
555	E026	2	OT7	OT	0	0
556	E026	6	SN1D	SN	0	0
557	E028	2	DM1B	DM	0	0
558	E028	3	DM4C3	DM	0	0
559	E028	1	DM4G6	DM	1	0
560	E028	4	DM4H	DM	0	0
561	E029	1	GH1B1	GH	0	0
562	E030	8	B4G	B	0	0
563	E030	10	GH1B1	GH	0	0
564	E030	3	GH1B3	GH	0	0
565	E030	9	GH1B3	GH	0	0
566	E030	4	GH1P2	GH	0	0
567	E030	1	OT4	OT	0	0
568	E030	5	OT4A	OT	0	0
569	E030	6	OT4A	OT	0	0
570	E030	7	OT4B	OT	0	0
571	E030	2	OT7	OT	1	0
572	E034	1	DM4E3	DM	0	0
573	E035	3	DM1B	DM	0	0
574	E035	4	DM4G2	DM	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
575	E035	1	DM4G9	DM	0	0
576	E035	2	OT4A	OT	0	0
577	E039	1	GH1C	GH	0	0
578	E039	2	MS1M5	MS	0	0
579	E044	2	DM4N4	DM	0	0
580	E044	3	GH1A	GH	0	0
581	E044	1	GH1B3	GH	0	0
582	E044	4	ME	ME	0	0
583	E044	5	OP10	OP	0	0
584	E044	6	OP11	OP	0	0
585	E050	1	SN1G	SN	1	0
586	E058	2	B1E	B	0	0
587	E058	3	B4G	B	0	0
588	E058	4	GH1A	GH	0	1
589	E058	1	MS1M2	MS	0	0
590	E058	6	MS1M3A	MS	0	0
591	E058	5	T2C	T	0	0
592	E070	1	DM4N4	DM	0	0
593	E070	2	OT4A	OT	0	0
594	E073	1	GH2A1	GH	0	0
595	E075	1	DM4V	DM	0	0
596	E075	3	GH2A1	GH	0	1
597	E075	2	UG2E	UG	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
598	E076	1	MS1M2	MS	0	0
599	E084	1	B7B	B	0	0
600	E090	2	B3B	B	0	0
601	E090	1	DM4A1	DM	0	0
602	E090	3	N9B	N	0	0
603	E090	4	T3D	T	0	1
604	E091	1	MS1A	MS	0	1
605	E091	2	MS1M4B	MS	0	1
606	E095	3	GH2E	GH	1	0
607	E095	2	MC12B	MC	0	0
608	E095	4	T10D3	T	0	1
609	E095	1	T20A	T	0	0
610	E097	2	DM4A1	DM	1	0
611	E097	1	GH1A	GH	0	0
612	E097	5	GH1P3	GH	0	0
613	E097	3	MC1	MC	1	0
614	E097	4	T3J	T	0	0
615	E102	1	DM4C1	DM	0	0
616	E103	3	DM4C2	DM	0	0
617	E103	6	DM4C2	DM	0	0
618	E103	12	DM4G11	DM	0	0
619	E103	9	DM4G9	DM	0	0
620	E103	4	GH1P3	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
621	E103	11	GH1P3	GH	0	0
622	E103	5	MS4C	MS	0	0
623	E103	10	OP4A	OP	0	0
624	E103	1	OT1	OT	0	0
625	E103	2	OT4A	OT	0	0
626	E103	8	OT4A	OT	0	0
627	E103	7	T3D	T	0	0
628	E111	1	DM4N4	DM	0	0
629	E111	3	GH1P2	GH	0	0
630	E111	4	GH1P2	GH	0	0
631	E111	2	MS1M3A	MS	0	0
632	E112	1	GH1B1	GH	0	0
633	E113	1	DM4N2	DM	0	0
634	E114	1	GH1P2	GH	0	0
635	E116	3	B6B	B	0	0
636	E116	5	DM1F	DM	0	0
637	E116	2	DM3A	DM	0	0
638	E116	1	MS1M3B	MS	0	0
639	E116	4	MS1M4B	MS	1	0
640	E117	1	UG2C	UG	0	0
641	E117	2	UG6A	UG	0	0
642	E119	1	GH1B1	GH	0	0
643	E119	2	T3B	T	0	1

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
644	E138	2	HC1A	HC	1	0
645	E138	1	T1A	T	0	0
646	E142	4	B5D	B	0	0
647	E142	2	DM4C1	DM	0	0
648	E142	1	DM4G9	DM	0	0
649	E142	6	MC12B	MC	0	0
650	E142	5	MC6A2	MC	0	0
651	E142	3	T17A	T	0	0
652	E145	1	DM4G9	DM	0	0
653	E145	3	GH1P2	GH	0	0
654	E145	2	UG4D	UG	0	0
655	E150	4	MC6B	MC	0	1
656	E150	1	OT4A	OT	0	0
657	E150	3	OT4A	OT	0	1
658	E150	2	T10D3	T	0	1
659	E156	1	T10D3	T	0	1
660	E160	2	DM4B	DM	0	0
661	E160	1	T13D	T	0	1
662	E168	2	MS1M4A	MS	0	0
663	E168	1	OT4A	OT	0	0
664	E170	2	HT2	HT	0	1
665	E170	1	MS2A	MS	0	1
666	E182	1	DM4B	DM	1	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
667	E186	1	OT4A	OT	0	0
668	E191	2	DM4B4	DM		
669	E191	1	MC1	MC	0	0
670	E205	1	MS1M3A	MS	0	0
671	E205	3	MS1M3B	MS	0	0
672	E205	2	T2C	T	0	0
673	E217	1	N8B	N	0	0
674	E221	3	B7C	B	0	1
675	E221	1	MS1M4B	MS	0	0
676	E221	2	UG6C	UG	1	0
677	E222	3	DM4A2	DM	0	0
678	E222	2	MS1M2	MS	0	0
679	E222	1	SN7B	SN	1	0
680	E223	6	DM1E	DM	0	0
681	E223	4	GH1B1	GH	0	0
682	E223	5	GH1B1	GH	0	0
683	E223	2	GH1B3	GH	0	0
684	E223	3	GH1R	GH	0	0
685	E223	1	T2C	T	0	0
686	E225	1	DM4E2	DM	0	0
687	E225	2	N9C	N	1	0
688	E235	2	MS1M3A	MS	0	1
689	E235	1	T3D	T	0	1

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
690	E238	1	DM4G6	DM	1	0
691	E239	1	OT4A	OT	0	0
692	E239	2	OT4A	OT	0	0
693	E250	1	OP1	OP		
694	E254	4	GH1A	GH	0	1
695	E254	2	GH1C	GH	0	1
696	E254	3	MS1M4A	MS	0	0
697	E254	1	N15	N	0	0
698	E257	4	DM4A3	DM	0	0
699	E257	3	DM4D	DM	0	0
700	E257	2	MS3D	MS	0	1
701	E257	1	OT4A	OT	0	0
702	E259	1	MS1M3A	MS	0	0
703	E279	8	DM4N4	DM	0	0
704	E279	6	MC12B	MC	0	0
705	E279	7	MC6B	MC	0	0
706	E279	5	MC7C	MC	0	0
707	E279	1	N9M	N	0	0
708	E279	2	OP10	OP	0	0
709	E279	3	T3	T	0	0
710	E279	4	V2	V	0	0
711	E292	1	SN7B	SN	0	1
712	E296	2	T3K	T	0	1

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
713	E296	1	V2	V	0	1
714	E298	3	GH1B1	GH	0	0
715	E298	1	UG5	UG	0	0
716	E298	2	V2	V	0	0
717	E300	2	DM4G9	DM	1	0
718	E300	1	UG7	UG	1	0
719	E300	3	DH1	DH	0	0
720	E302	1	GH1B1	GH	0	0
721	E302	3	GH1P3	GH	0	0
722	E302	2	OT4A	OT	0	0
723	E304	2	DM4A3	DM	0	0
724	E304	1	OT1	OT	0	0
725	E308	1	DM4N4	DM	0	0
726	E308	2	GH1P2	GH	0	0
727	E309	1	DM4G6	DM	0	0
728	E309	2	DM4K1	DM	0	0
729	E309	3	OT4A	OT	0	0
730	E309	4	UG2B	UG	0	0
731	E311	1	B2B	B	0	0
732	E311	2	B7B	B	0	0
733	E313	1	DM4G9	DM	0	0
734	E313	2	MS1M3B	MS	0	0
735	E313	3	T3B	T	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
736	F000	1	UG5	UG	0	0
737	F003	1	GH1B1	GH	0	0
738	F003	3	MC22	MC	0	0
739	F003	2	UG2C	UG	0	0
740	F016	1	DM4G10	DM	0	0
741	F016	3	GH2A1	GH	0	0
742	F016	2	MS1M3B	MS	0	0
743	F016	4	UG9	UG	0	0
744	F020	2	GH1B1	GH	0	0
745	F020	1	OT4A	OT	0	0
746	F020	3	T3B	T	0	1
747	F032	1	MS1M2	MS	0	1
748	F051	1	OP3A	OP	1	0
749	F054	2	DM4F2	DM	1	0
750	F054	1	DM4N4	DM	1	0
751	F054	5	GH1B1	GH	0	0
752	F054	3	MS1M3A	MS	1	0
753	F054	4	MS1M3B	MS	0	1
754	F065	2	DM4N4	DM	0	0
755	F065	1	T3	T	0	1
756	F070	2	MS1M3B	MS	0	0
757	F070	3	MS1M4A	MS	0	0
758	F070	1	MS3D	MS	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
759	F072	2	DM4E5	DM	1	0
760	F072	1	OT1	OT	1	0
761	F074	2	N17	N	0	0
762	F074	1	N6	N	0	0
763	F089	2	SN6	SN	0	0
764	F089	1	T1A	T	0	0
765	F094	1	R2	R	0	0
766	F094	2	R9	R	0	0
767	F095	1	HT5	HT	0	1
768	F096	1	OT4A	OT	0	0
769	F101	1	T3B	T	0	1
770	F102	3	MS1M3B	MS	1	0
771	F102	2	SB	SB	1	0
772	F102	1	SN1E	SN	1	0
773	F114	1	MS1A	MS	0	0
774	F121	2	GH1B1	GH	0	0
775	F121	1	T3E	T	0	0
776	F125	1	N9N	N	0	0
777	F145	1	GH1B1	GH	1	0
778	F160	2	DM1B	DM	0	1
779	F160	5	DM4C1	DM	0	0
780	F160	1	GH1P2	GH	0	0
781	F160	4	N9D2	N	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
782	F160	6	T17A	T	0	0
783	F160	3	T3K	T	0	1
784	F196	1	DM4G9	DM	0	0
785	F202	1	DM4G9	DM	0	0
786	F209	2	DM1A	DM	0	1
787	F209	3	DM4G9	DM	0	0
788	F209	1	GH1B1	GH	0	0
789	F211	1	DM4C1	DM	0	0
790	F217	4	DM4K4	DM	0	0
791	F217	3	GH1K3	GH		0
792	F217	1	OT4A	OT	0	0
793	F217	2	UG4C	UG	0	0
794	F218	1	OT4A	OT	0	0
795	F227	2	GH1B3	GH	0	0
796	F227	1	T13	T	0	0
797	F233	1	DM4G6	DM	0	0
798	F233	2	GH2A1	GH	0	0
799	F233	3	T3B	T	0	0
800	F237	4	MC17	MC	0	0
801	F237	2	MS1M3A	MS	0	1
802	F237	3	MS3D	MS	0	1
803	F237	1	T4	T	0	1
804	F238	1	GH1A	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
805	F238	2	MC1	MC	1	0
806	F238	3	OP1	OP	1	0
807	F243	1	OT4A	OT		
808	F246	2	GH2A1	GH	1	0
809	F246	1	T3D	T	0	0
810	F246	3	T3D	T	0	0
811	F249	1	DM4N4	DM	1	0
812	F249	4	MC7A	MC	0	0
813	F249	5	MS1M10	MS	0	0
814	F249	3	MS2A	MS	0	0
815	F249	2	OT8	OT	0	0
816	F252	1	HT1	HT	0	0
817	F254	1	OT4A	OT		
818	F258	1	OT8	OT	0	0
819	F281	1	MS1G2	MS	1	1
820	F285	1	GH1B1	GH	0	0
821	F285	2	HT2	HT	0	1
822	F286	1	GH1B1	GH	0	0
823	F286	2	T10D2	T	0	1
824	F289	1	MC6A2	MC	0	0
825	F289	2	OP8A	OP	0	0
826	F291	3	DM1B	DM	0	0
827	F291	1	DM4G9	DM	1	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
828	F291	2	R1	R	0	0
829	F298	2	DM1B	DM	0	0
830	F298	3	GH1P3	GH	0	0
831	F298	5	GH1P3	GH	0	0
832	F298	1	GH1R	GH	0	0
833	F298	4	MC7A	MC	0	0
834	F299	5	GH1A	GH	0	0
835	F299	4	GH1B1	GH	0	0
836	F299	8	MC6B	MC	0	0
837	F299	6	MS1M4B	MS	0	0
838	F299	9	MS1M4B	MS	0	0
839	F299	1	OT4A	OT	0	0
840	F299	7	SB	SB	0	0
841	F299	3	T3J	T	0	0
842	F299	2	UG5	UG	0	0
843	F306	2	GH1B1	GH	0	0
844	F306	1	OT4A	OT	1	0
845	F310	1	R4	R	0	0
846	F311	2	T3D	T	0	0
847	F311	1	UG2C	UG	0	0
848	F337	1	DM4N4	DM	0	0
849	F337	2	GH1B1	GH	0	0
850	F339	1	GH1A	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
851	F350	2	GH1A	GH	0	0
852	F350	3	HT2	HT	0	0
853	F350	1	OT4A	OT	0	0
854	F367	1	MS1M4A	MS	0	0
855	F367	2	T17E	T	1	0
856	F369	1	DM4N4	DM	0	0
857	F374	2	GH1B1	GH	0	0
858	F374	1	UG3	UG	1	0
859	F381	1	T10B3	T	0	1
860	F384	1	T17A	T	0	0
861	F385	1	DM1B	DM	0	0
862	F386	1	T2C	T	0	0
863	F390	1	B4G	B	0	0
864	F390	2	B4H	B	0	1
865	F393	2	MC12B	MC	1	0
866	F393	1	MS1M6	MS	1	0
867	F393	3	N9	N	0	0
868	F395	1	GH1R1	GH	0	0
869	F395	2	MC6A2	MC	0	0
870	F398	1	OT4A	OT	0	0
871	F403	3	MS1M6	MS	0	0
872	F403	2	T17A	T	0	0
873	F403	1	T18	T	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
874	F403	4	T2C	T	0	0
875	F417	1	MS1M4A	MS	1	0
876	F418	2	DM4T	DM	1	0
877	F418	1	T17D	T	1	0
878	F419	1	GH1B3	GH		
879	F423	1	MS1E1	MS	0	0
880	F426	1	DM4P3	DM	0	0
881	F426	2	MC6	MC	1	0
882	F426	3	T2A	T	0	1
883	F429	2	DM4K1	DM	1	0
884	F429	1	GH2A1	GH	0	1
885	F430	1	T17A	T		
886	F433	1	OT4A	OT	0	0
887	F433	2	OT4A	OT	0	0
888	F445	2	GH1K4	GH	0	0
889	F445	4	GH1P2	GH	0	0
890	F445	3	ME	ME	0	0
891	F445	1	OT4A	OT	0	0
892	F445	5	SN7B	SN	0	0
893	F456	1	GH1B1	GH	0	0
894	F456	2	SN1D	SN	0	0
895	F462	1	GH1B1	GH	0	0
896	F464	1	DM4G9	DM	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
897	F466	1	GH1B1	GH	0	0
898	F469	1	MS1K	MS	0	1
899	F469	2	SN2D	SN	1	0
900	F471	1	UG2C	UG	0	0
901	F471	3	UG4B	UG	0	0
902	F471	2	UG6A	UG	0	0
903	F487	1	GH1B1	GH	0	0
904	F487	2	OP5	OP	1	0
905	F488	1	N9G	N	0	0
906	F521	3	GH1P2	GH	0	0
907	F521	1	OT1	OT	1	0
908	F521	2	OT4A	OT	1	0
909	F521	4	UG1	UG	0	0
910	F531	1	MS1M4B	MS	0	0
911	F533	12	DM4G6	DM	0	0
912	F533	5	DM4N8	DM	0	0
913	F533	3	DM4W2	DM	0	0
914	F533	9	GH1B1	GH	0	0
915	F533	8	GH1P4	GH	0	0
916	F533	17	GH1R1	GH	0	0
917	F533	13	GH2	GH	0	0
918	F533	10	MC6A1	MC	0	0
919	F533	11	MC6A2	MC	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
920	F533	15	MC6A2	MC	0	0
921	F533	16	MC7A	MC	0	0
922	F533	2	MS1M2	MS	0	0
923	F533	1	MS1M4B	MS	0	0
924	F533	18	MS2A	MS	0	0
925	F533	4	MS3D	MS	0	0
926	F533	6	R2	R	0	0
927	F533	7	SN2F	SN	0	0
928	F533	14	T17	T	0	0
929	F543	1	DM4G9	DM	1	0
930	F544	2	DM3A	DM	0	0
931	F544	1	GH1D	GH	0	0
932	F544	3	T3F	T	1	0
933	F550	2	MC23	MC	1	0
934	F550	1	OT4A	OT	0	0
935	F554	1	N9P	N	0	0
936	F570	1	DM4C2	DM	0	0
937	F583	3	GH1P3	GH	0	0
938	F583	1	MC7A	MC	0	0
939	F583	2	T17F	T	0	0
940	F590	8	B4	B	0	0
941	F590	1	DM1B	DM	0	1
942	F590	3	GH1P3	GH	0	1

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
943	F590	6	GH1R1	GH	0	0
944	F590	4	MC6A2	MC	0	1
945	F590	7	MC7A	MC	0	0
946	F590	5	MS1K2	MS	0	1
947	F590	2	T10A	T	0	1
948	F591	4	GH1B1	GH		
949	F591	1	GH1D	GH		
950	F591	3	HT1	HT		
951	F591	2	MS1F	MS		
952	F605	1	OT4A	OT	0	0
953	F612	1	OT4A	OT	1	0
954	F617	1	T17A	T	0	0
955	F632	2	DM3D	DM	0	0
956	F632	3	DM3E	DM	1	0
957	F632	1	MS1M2	MS	0	0
958	F715	2	GH1B1	GH	0	0
959	F715	3	GH1E	GH	0	0
960	F715	1	SN4	SN	0	0
961	F716	8	B1B	B	0	1
962	F716	9	B2B	B	0	1
963	F716	2	DM1B	DM	0	0
964	F716	7	DM4G3	DM	0	0
965	F716	6	DM4G9	DM	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
966	F716	1	GH1P2	GH	0	0
967	F716	5	OP3A	OP	0	0
968	F716	3	T3A	T	0	0
969	F716	4	T8	T	0	0
970	F726	3	GH1B3	GH	0	0
971	F726	2	MS1M3B	MS	0	0
972	F726	1	MS1M4A	MS	0	0
973	F727	2	DM4C1	DM	1	0
974	F727	1	GH1P2	GH	0	0
975	F730	1	DM1E	DM	0	0
976	F732	1	GH1P3	GH	0	0
977	F732	3	MC12B	MC	0	0
978	F732	2	SN1D	SN	0	0
979	F738	1	DM4B3	DM	0	0
980	F740	2	GH1P3	GH	0	0
981	F740	1	T3B	T	0	1
982	F742	1	T2C	T	0	0
983	F742	2	T3K	T	0	0
984	H000	1	HT2	HT	0	0
985	H023	1	UG3B	UG	1	0
986	H023	2	UG6C	UG	0	0
987	H044	1	DM4N6	DM	1	0
988	H044	2	GH1B1	GH	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
989	H051	1	GH1B2	GH	0	0
990	H055	1	GH1B1	GH	0	0
991	H064	1	GH1P2	GH	0	0
992	H067	3	GH1C	GH	0	0
993	H067	1	GH1P2	GH	0	0
994	H067	4	MC7B	MC	0	0
995	H067	2	MS1M3B	MS	0	0
996	H073	2	DM4N4	DM	0	0
997	H073	3	GH1B1	GH		
998	H073	1	MC6A2	MC	0	0
999	H088	1	T3D	T	0	1
1000	H100	2	GH1B3	GH	0	0
1001	H100	1	GH1F	GH	0	0
1002	H100	3	GH1P2	GH	0	0
1003	H109	1	GH1B1	GH	0	0
1004	H147	1	T10B2	T	0	1
1005	H155	2	GH1P2	GH	0	0
1006	H155	1	GH2A1	GH	0	0
1007	H177	1	DM4M2	DM	0	0
1008	H178	3	DM4G6	DM	0	0
1009	H178	1	GH1B1	GH	0	0
1010	H178	2	OT1	OT	0	0
1011	H182	1	DM1B	DM	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1012	H183	1	T3D	T	0	0
1013	H188	1	T17A	T	0	0
1014	H202	1	GH1B1	GH	0	0
1015	H203	1	GH1B1	GH	0	0
1016	H203	2	OT4A	OT	1	0
1017	H218	1	ME	ME	0	1
1018	H218	2	T3K1	T	0	1
1019	H240	3	DM1B	DM	0	1
1020	H240	1	DM4K1	DM	1	0
1021	H240	2	GH1B1	GH	1	0
1022	H251	1	GH2B2	GH	0	0
1023	H253	1	MS1M4B	MS	0	0
1024	H259	1	GH2A2	GH	0	0
1025	H268	1	DM4G10	DM	0	0
1026	H268	2	GH1P3	GH	0	0
1027	H268	3	T18	T	0	1
1028	H287	1	GH1R1	GH	0	0
1029	H296	2	OT4A	OT	0	0
1030	H296	1	T3	T	0	1
1031	H302	1	B1D	B	0	0
1032	H302	2	GH1A	GH	0	0
1033	H304	3	GH1P2	GH	0	0
1034	H304	1	T17A	T	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1035	H304	2	T20A	T	0	0
1036	H309	1	GH1P3	GH		
1037	H310	5	DM4A3	DM	1	0
1038	H310	2	DM4D	DM	1	0
1039	H310	4	DM4D	DM	1	0
1040	H310	8	DM4F2	DM		
1041	H310	3	DM4M4	DM	0	0
1042	H310	1	OT4A	OT	1	0
1043	H310	9	OT4A	OT		
1044	H310	6	UG2C	UG	0	0
1045	H310	7	UG6E	UG	0	0
1046	H314	1	OT1	OT	0	0
1047	H330	3	DM4G9	DM	1	0
1048	H330	1	DM4K1	DM	0	0
1049	H330	2	HT1	HT	0	0
1050	H334	1	DM4B2	DM	0	0
1051	H334	3	DM4K1	DM	0	0
1052	H334	2	T3J	T	0	0
1053	H338	1	T3K	T	0	0
1054	H346	1	DM4G6	DM	0	0
1055	H346	2	MC21A	MC	1	0
1056	H346	4	OT4A	OT	1	0
1057	H346	3	OT4A	OT	1	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1058	H347	1	GH1B1	GH	0	0
1059	H347	3	GH1N	GH	0	0
1060	H347	2	MS1M6	MS	0	0
1061	H349	1	OT4A	OT	0	0
1062	H366	1	MC6A2	MC	1	0
1063	H374	1	UG2E	UG	1	0
1064	H377	2	C1	C	1	0
1065	H377	1	T6B	T	0	1
1066	J005	1	DM1B	DM	0	0
1067	J005	3	DM2D	DM	0	0
1068	J005	4	GH2A2	GH	0	0
1069	J005	2	MS1M6	MS	0	0
1070	J005	5	T20	T	0	0
1071	J006	1	GH2A2	GH	1	0
1072	J022	2	GH1H4	GH	0	1
1073	J022	1	MS3D2	MS	0	1
1074	J022	3	T17	T	0	1
1075	J030	5	DM1E	DM	0	0
1076	J030	2	GH1B1	GH	0	0
1077	J030	3	GH1B3	GH	0	0
1078	J030	4	GH1P3	GH	0	0
1079	J030	1	GH1R1	GH	0	0
1080	J058	2	DH2	DH	0	1

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1081	J058	1	T12	T	0	1
1082	J134	1	T3J	T	0	0
1083	J146	1	DM4A3	DM	0	0
1084	J148	2	DM4T	DM	1	0
1085	J148	1	OT1	OT	0	0
1086	J156	1	MS2A	MS	0	0
1087	J159	1	T3E	T	0	1
1088	J172	1	MS1M4A	MS	0	0
1089	J175	1	GH1P3	GH	0	0
1090	J175	2	T3D	T	0	0
1091	J180	2	GH1P3	GH	0	0
1092	J180	3	MC19	MC	0	0
1093	J180	1	OT4A	OT	0	0
1094	J180	4	T19C	T	0	0
1095	J182	3	DM1A	DM	0	0
1096	J182	2	DM4G9	DM	0	0
1097	J182	1	T17A	T	0	0
1098	J183	2	HT1	HT	0	0
1099	J183	1	SN7A	SN	0	1
1100	J184	1	DM3E	DM	0	0
1101	J184	2	MS1M4A	MS	0	0
1102	J212	1	MC1	MC	0	0
1103	J212	2	MC1	MC	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1104	J232	1	GH1P2	GH	0	0
1105	J232	2	GH1R	GH	0	0
1106	J253	1	DM4G9	DM	0	0
1107	J261	3	DM3C	DM	0	0
1108	J261	2	OT4A	OT	0	0
1109	J261	4	OT4A	OT	0	0
1110	J261	1	T3D	T	0	0
1111	J262	2	T2C	T	0	0
1112	J262	1	T3M	T	0	1
1113	J273	2	DM1A	DM	0	0
1114	J273	1	GH1D	GH	0	0
1115	J273	3	T17A	T	0	0
1116	J304	1	GH2A1	GH	0	1
1117	J304	2	MS1M3B	MS	0	1
1118	J304	3	MS4C	MS	0	1
1119	J341	1	DM4B	DM	0	0
1120	J341	2	GH1P2	GH	0	0
1121	J351	1	DM4G9	DM	0	
1122	J375	1	UG6A	UG	0	0
1123	J382	2	DM4E1	DM	0	0
1124	J382	1	GH1P2	GH	0	0
1125	J385	1	GH1B1	GH	0	0
1126	J385	2	R3	R	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1127	J387	1	B1A	B	0	1
1128	J439	1	DM4G3	DM	0	0
1129	J465	1	DM4G9	DM	1	0
1130	J515	1	GH1A	GH	0	0
1131	J535	1	T3D	T	0	0
1132	J538	1	DM4B	DM	0	0
1133	K005	2	B2A	B	0	0
1134	K005	1	GH2A2	GH	0	0
1135	K006	1	B7B	B	0	1
1136	K024	2	DM4T	DM	1	0
1137	K024	1	T3K	T	0	0
1138	K026	2	DM4G6	DM	0	0
1139	K026	1	GH1P2	GH	0	0
1140	K041	1	DM4G9	DM	0	0
1141	K062	1	OT4A	OT	0	0
1142	K062	2	UG6A	UG	0	0
1143	K087	1	HT1	HT	0	1
1144	K087	2	OT4A	OT	1	0
1145	K153	1	GH1P2	GH	0	0
1146	K154	1	DH2	DH	0	1
1147	K154	2	T12D	T	0	1
1148	K154	1	T10A	T	0	1
1149	K165	1	MS2B	MS		1

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1150	K165	2	OT4A	OT	1	0
1151	K167	1	OT4A	OT	0	0
1152	K196	1	T2C	T	0	0
1153	K224	1	GH1P1	GH	0	0
1154	K225	1	GH1B1	GH	0	0
1155	K230	1	GH1B1	GH	0	0
1156	K242	3	B1B	B	0	1
1157	K242	1	OP8	OP	1	0
1158	K242	2	T2C	T	0	0
1159	K350	1	DM4	DM	0	0
1160	K459	1	T19D	T	0	0
1161	K501	1	GH1R1	GH	0	0
1162	K504	1	B1C	B	0	1
1163	K505	1	GH1B1	GH	0	0
1164	K508	1	GH1B1	GH	0	0
1165	L033	1	DM4G2	DM	0	0
1166	L510	1	T3	T	0	1
1167	L510	2	T9	T	0	1
1168	L511	1	GH1K1	GH	0	1
1169	L511	3	MC1	MC	0	1
1170	L511	2	SN7B	SN	0	1
1171	L515	1	T2C	T	0	0
1172	L516	1	T17A	T	0	1

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1173	L518	1	MS2C	MS	0	1
1174	SP1	1	DH2	DH	0	1
1175	SP1	2	T12C	T	0	1
1176	SP1		T21	T	0	1
1177	SP2	1	T3	T	0	1
1178	SP3	2	GH1C	GH	0	0
1179	SP3	1	T1B	T	0	0
1180	SP4	1	GH2A1	GH	0	0
1181	SP4	2	GH2A2	GH	0	0
1182	SP4	3	GH2G	GH	0	0
1183	SP5	1	MS1E1	MS	1	0
1184	SP6	1	OT1	OT	0	1
1185	SP7	1	T21B	T	0	1
1186	SP8	1	T12F	T	0	0
1187	SP8	2	DH2	DH	0	0
1188	SP9	1	DH2	DH	0	1
1189	SP9	2	T12C	T	0	1
1190	SP9		T21	T	0	1
1191	SP10	1	DH2	DH	0	1
1192	SP10	1	T10C	T	0	1
1193	SP10		T12B	T	0	1
1194	SP11	1	DH2	DH	0	1
1195	SP11	2	T12C	T	0	1

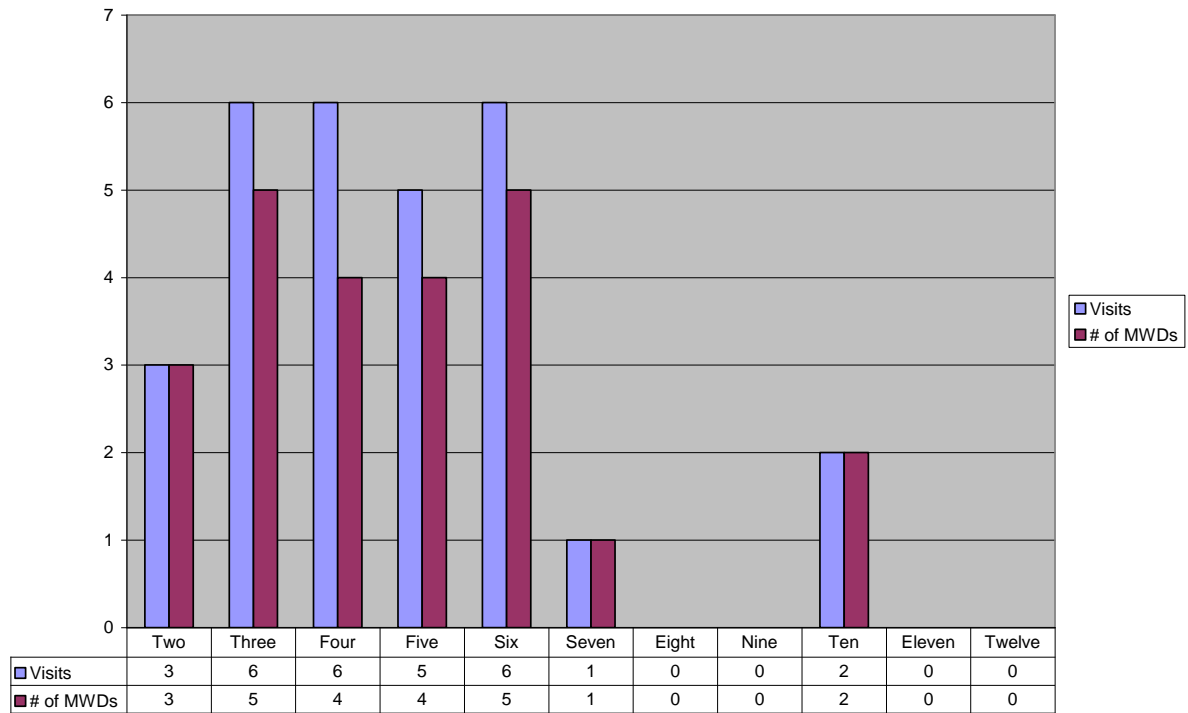
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1196	SP11		T21	T	0	1
1197	SP12	1	DH2	DH	0	1
1198	SP12	2	T12C	T	0	1
1199	SP12		T21	T	0	1
1200	SP13	1	DH2	DH	0	1
1201	SP13	2	T12G	T	0	1
1202	SP14	1	GH1K2	GH	0	0
1203	SP15	1	DH2	DH	0	1
1204	SP15	1	T10C	T	0	1
1205	SP15	2	T12B	T	0	1
1206	SP16	1	DH2	DH	0	1
1207	SP16	2	T12C	T	0	1
1208	SP16		T21	T	0	1
1209	SP17	1	DH2	DH	0	1
1210	SP17		T12C	T	0	1
1211	SP17		T21	T	0	1
1212	SP18	1	T21A	T	0	1
1213	X098	2	DM4K1	DM	0	0
1214	X098	3	DM4N9	DM	0	0
1215	X098	7	GH1R	GH	0	0
1216	X098	5	GH2A1	GH	0	0
1217	X098	6	HC1B	HC	0	0
1218	X098	1	MC6A2	MC	0	0

	MWD TATTOO	MWD PROBLEM ID	MWD PROBLEM	CATEGORY	PRIOR CONDITION	BATTLEFIELD CONDITION
1219	X098	4	T17A	T	0	0
1220	X154	1	GH1B3	GH	0	0
1221	X154	2	T3B	T	0	0
1222	X190	1	GH1B1	GH	0	0
1223	X190	3	GH2A1	GH	0	0
1224	X190	2	N3A	N	0	0
1225	X190	4	V2	V		
1226	X190	5	V2	V		
1227	Y004	1	MC1	MC	0	0
1228	Y004	2	MC6B	MC	0	0
1229	Y167	2	GH2A1	GH	0	0
1230	Y167	3	MC7A	MC	0	0
1231	Y167	1	N9E	N	1	0
1232	Z071	2	GH2E	GH	0	0
1233	Z071	3	MS1M2	MS	0	0
1234	Z071	1	T3D	T	0	0
1235	Z071	4	V3	V		
1236	Z188	1	OT4A	OT	0	0
1237	Z193	1	MS1M6	MS	0	0

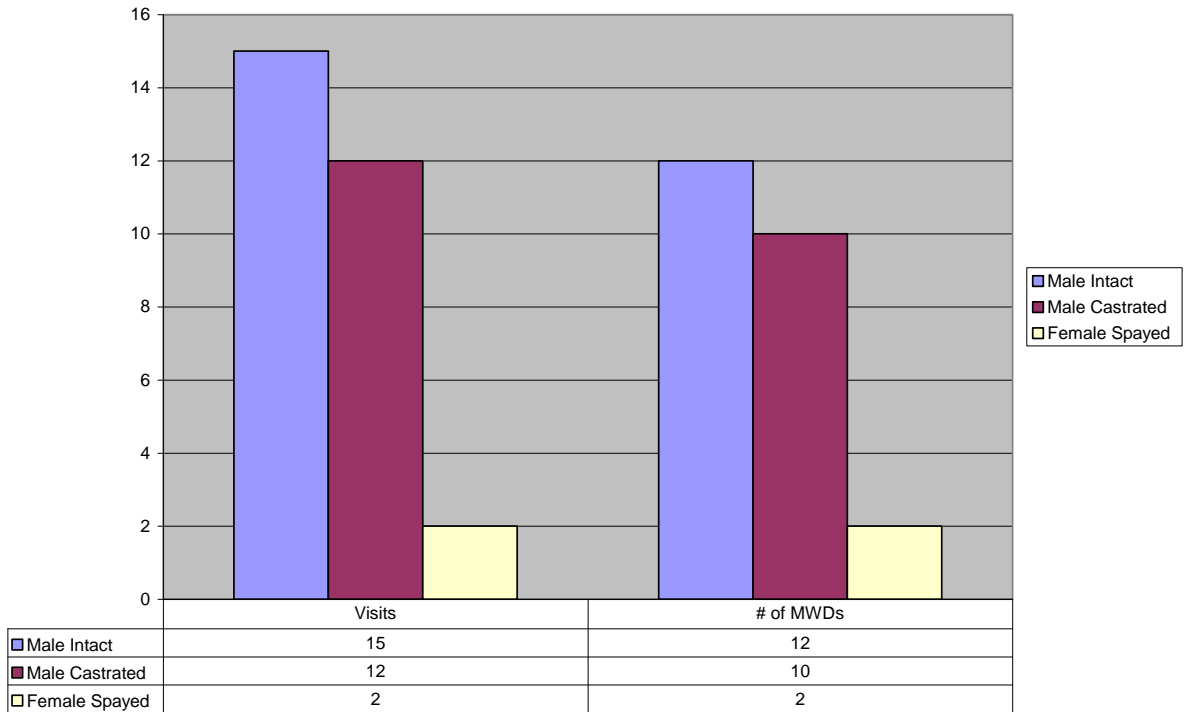
Appendix L: Charts of Categories by Variable

Behavior

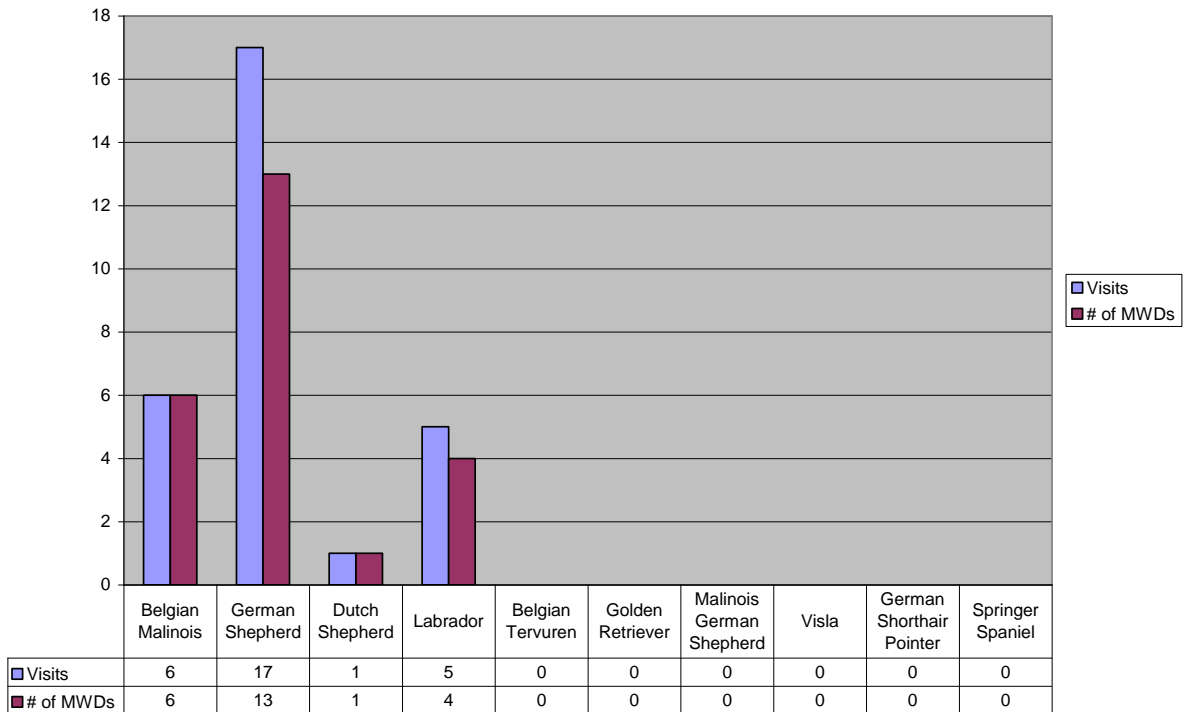
Behavior by Age in Years



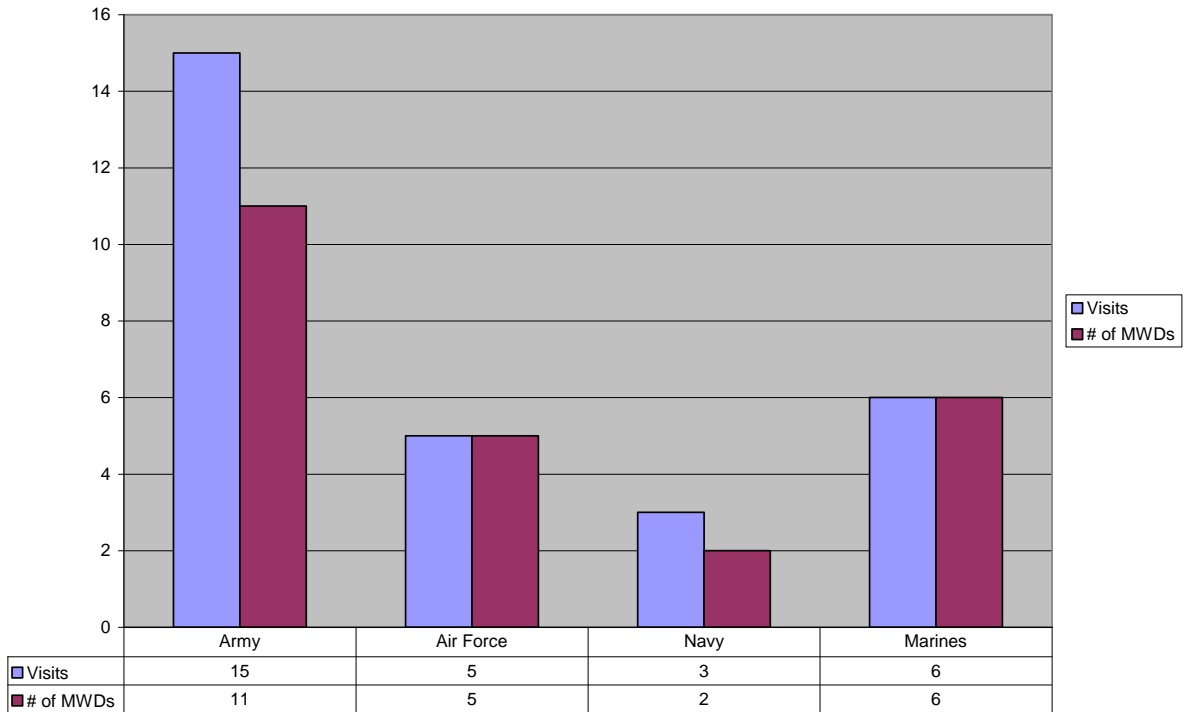
Behavior by Gender



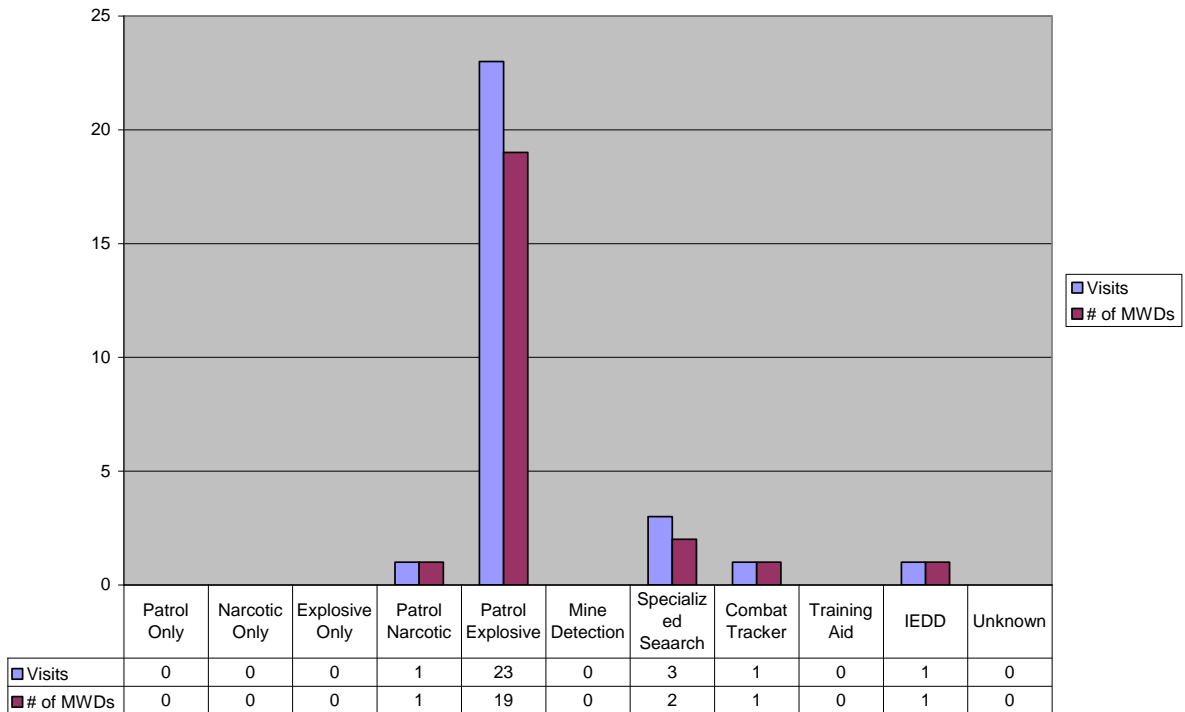
Behavior by Breed



Behavior by Branch

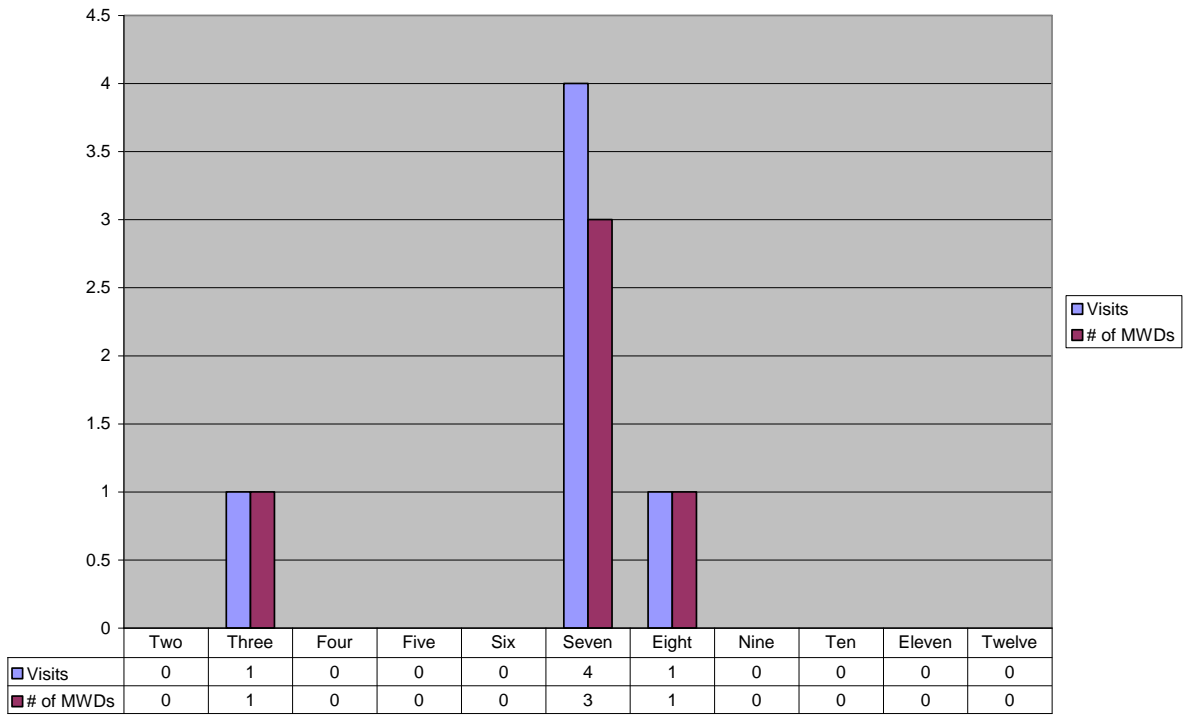


Behavior by Certification

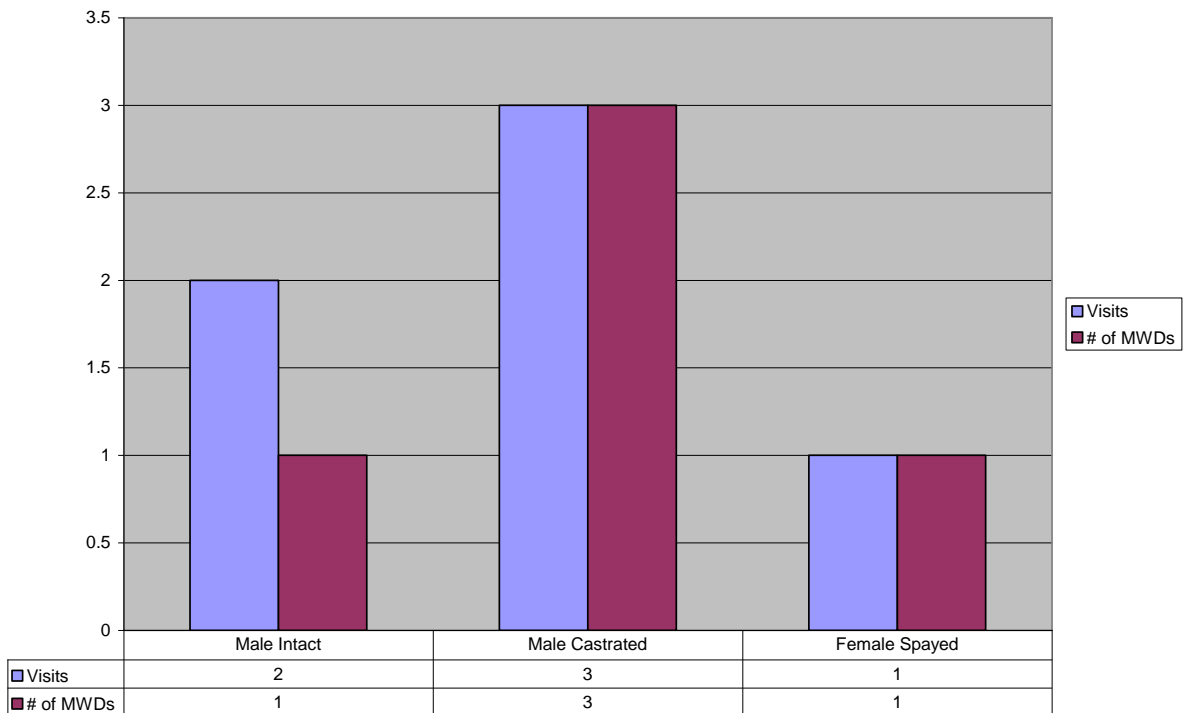


Cardiac

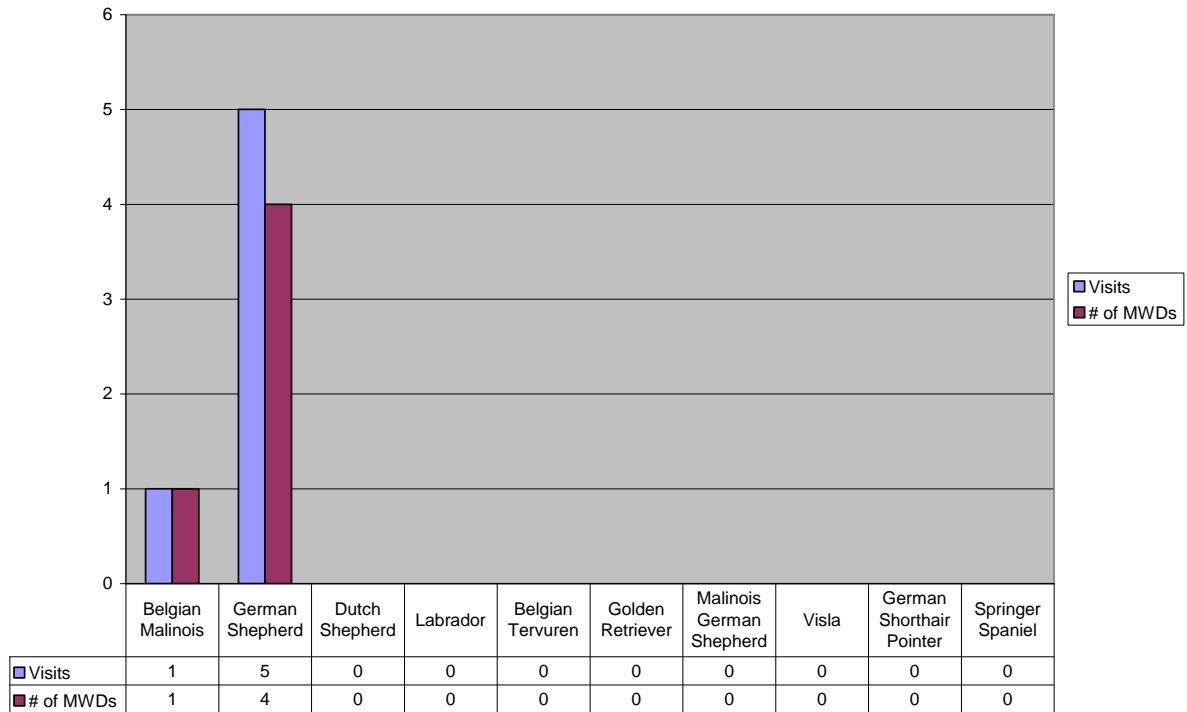
Cardiac by Age in Years



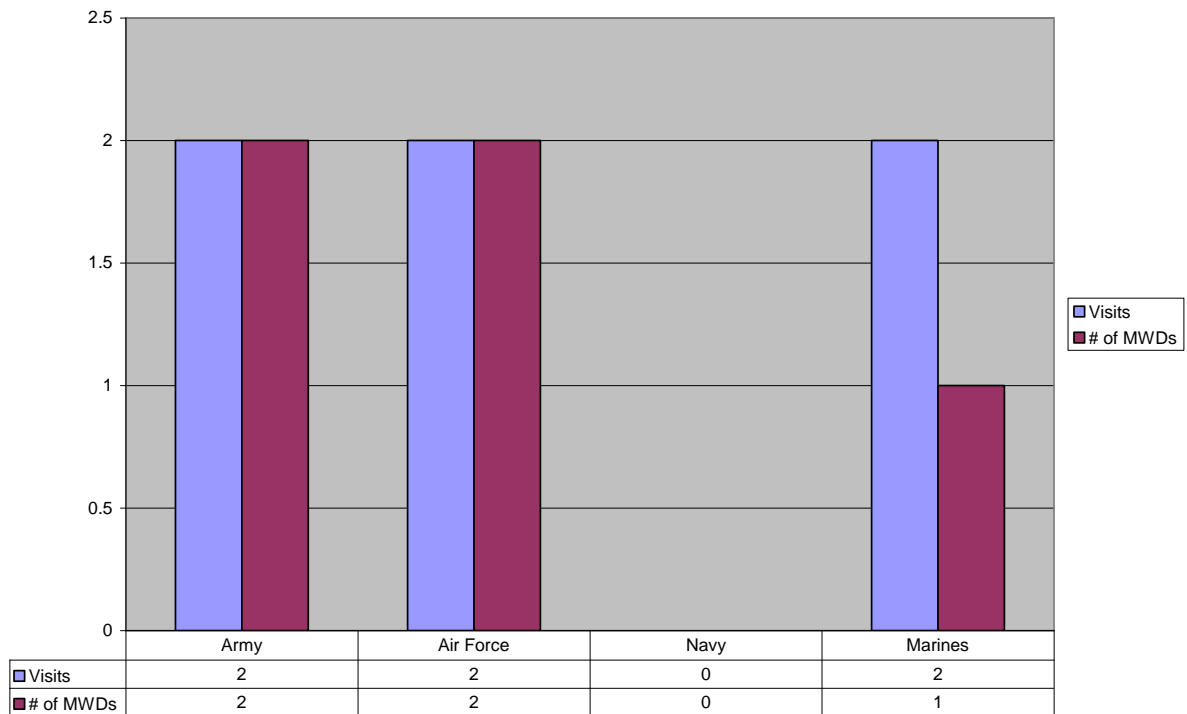
Cardiac by Gender



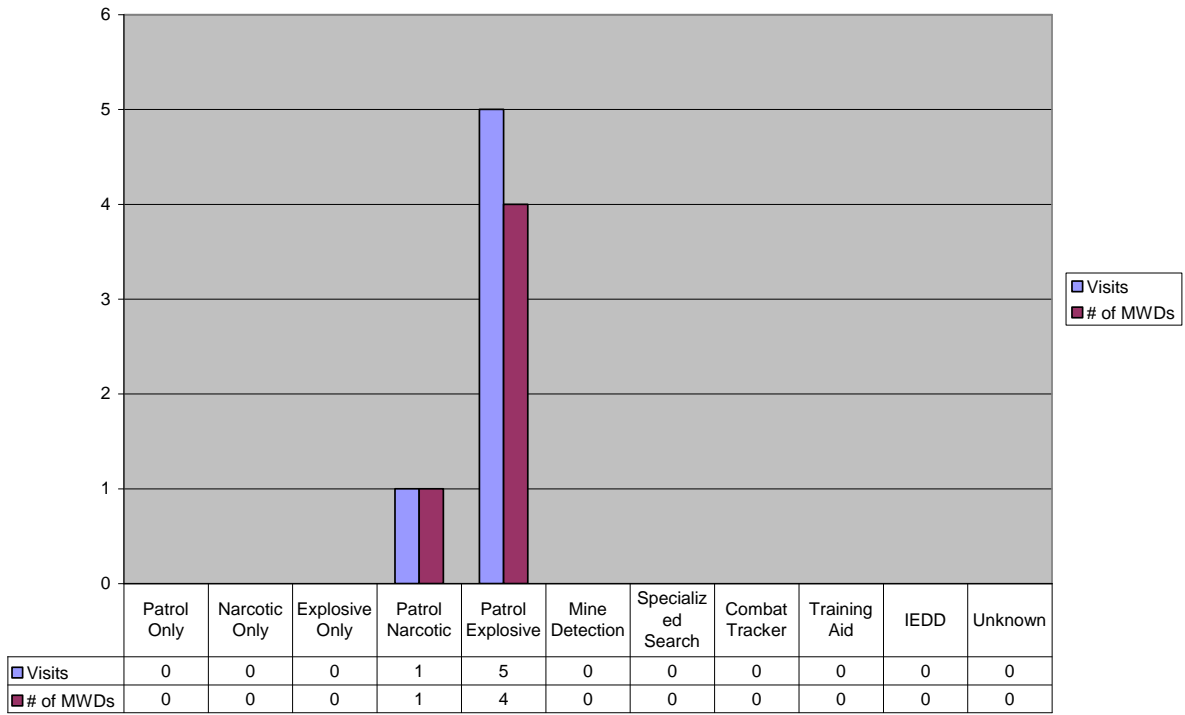
Cardiac by Breed



Cardiac by Branch of Service

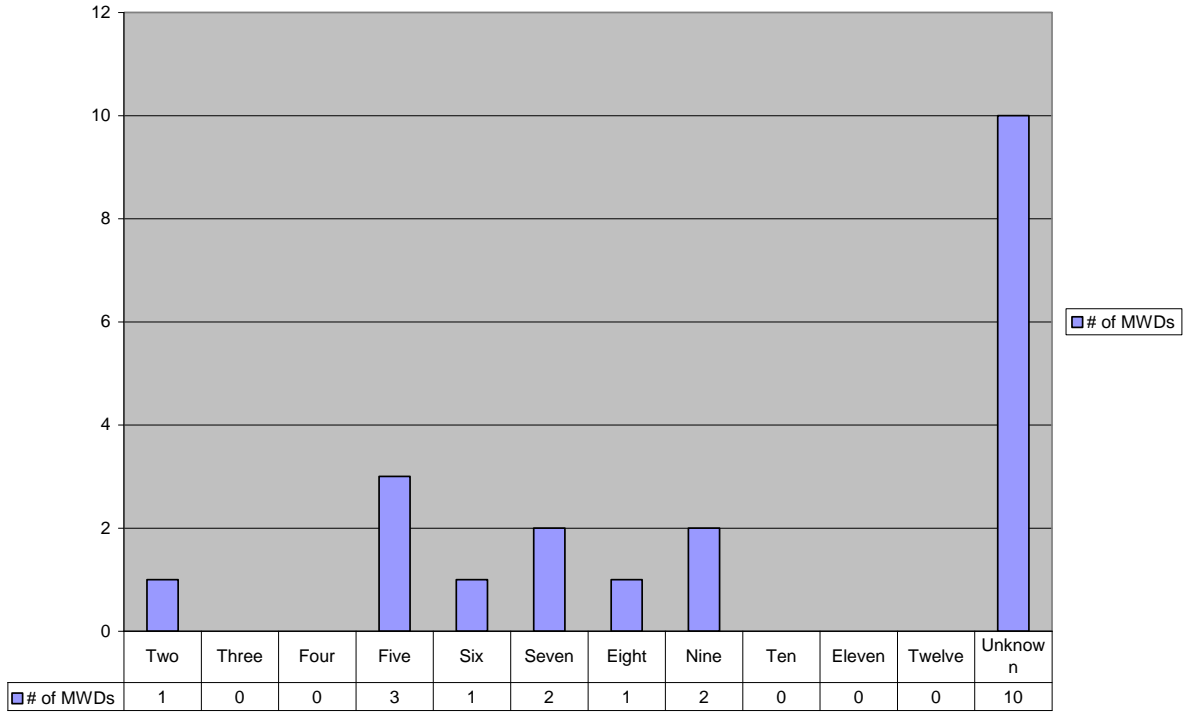


Cardiac by Certification

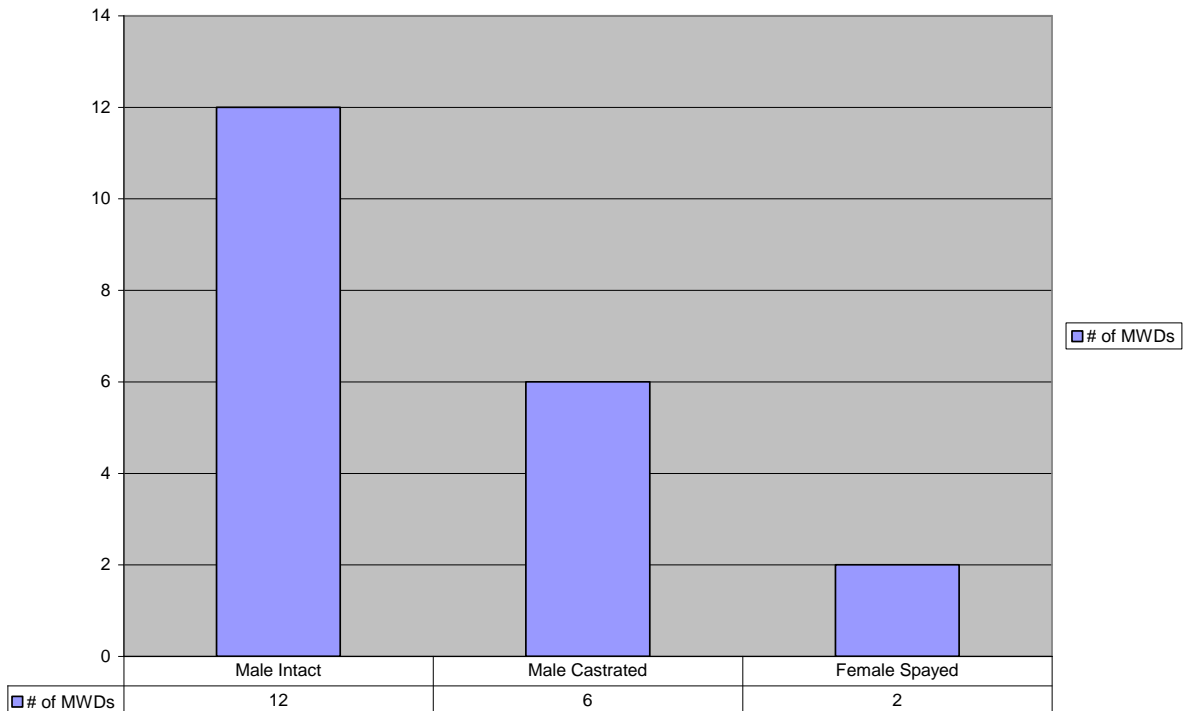


Death

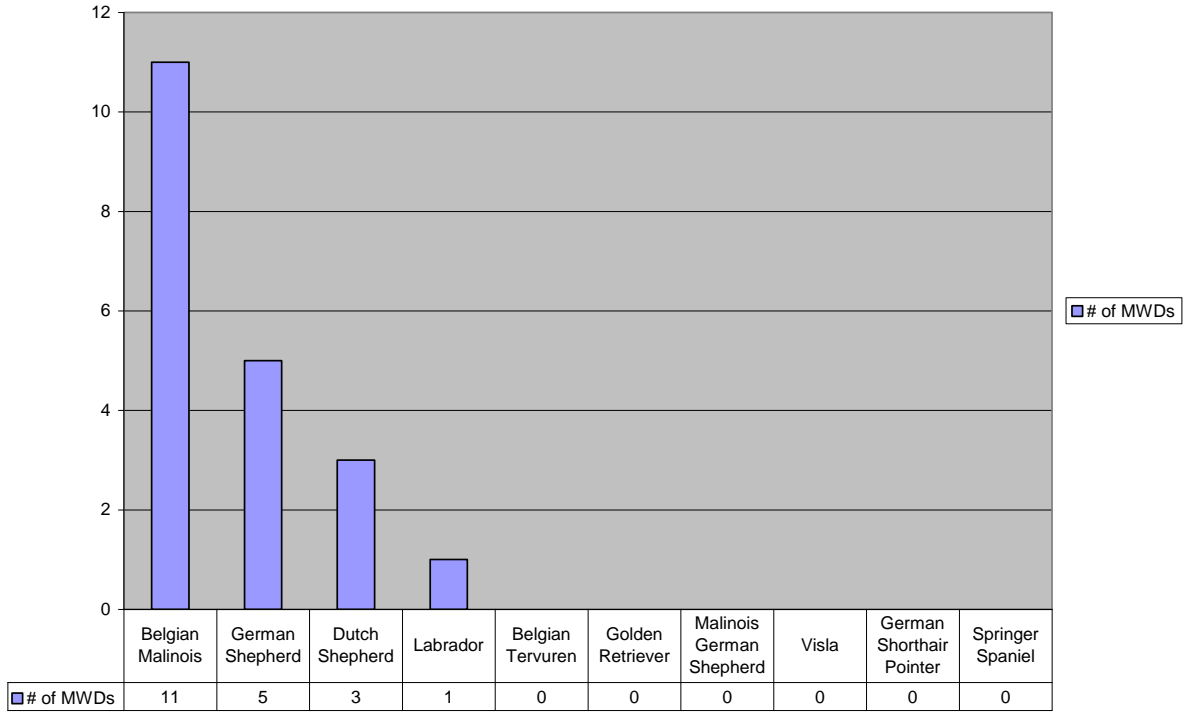
Death by Age in Years



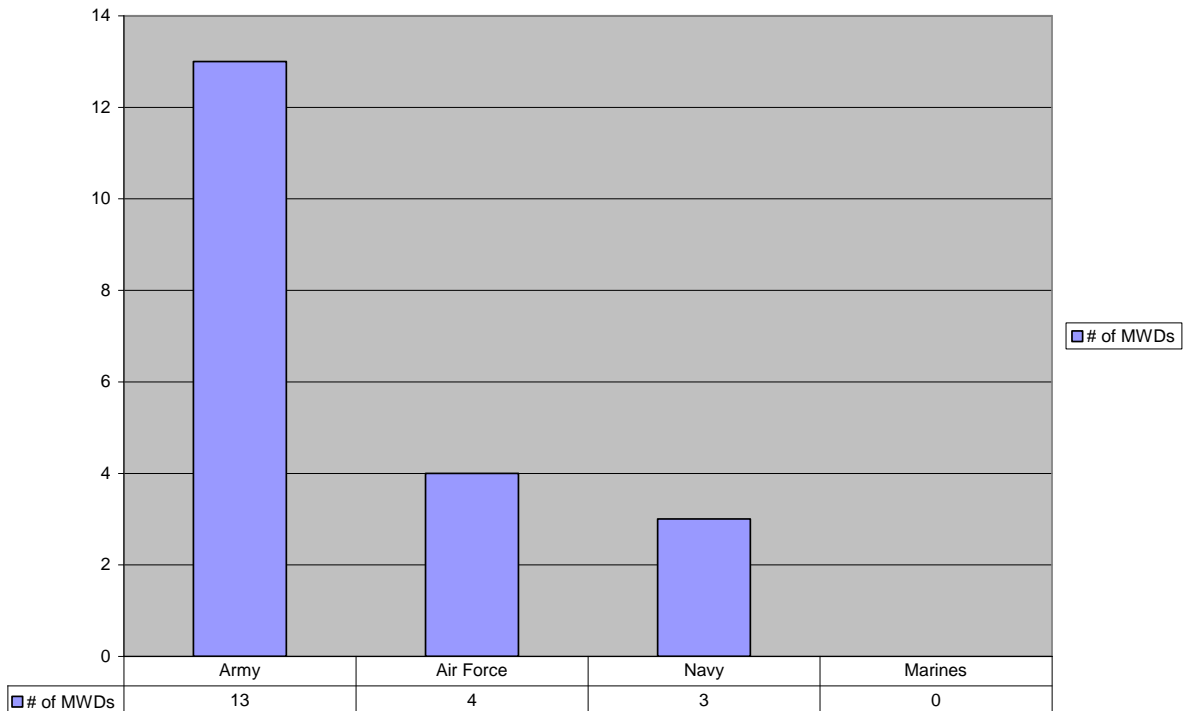
Death by Gender



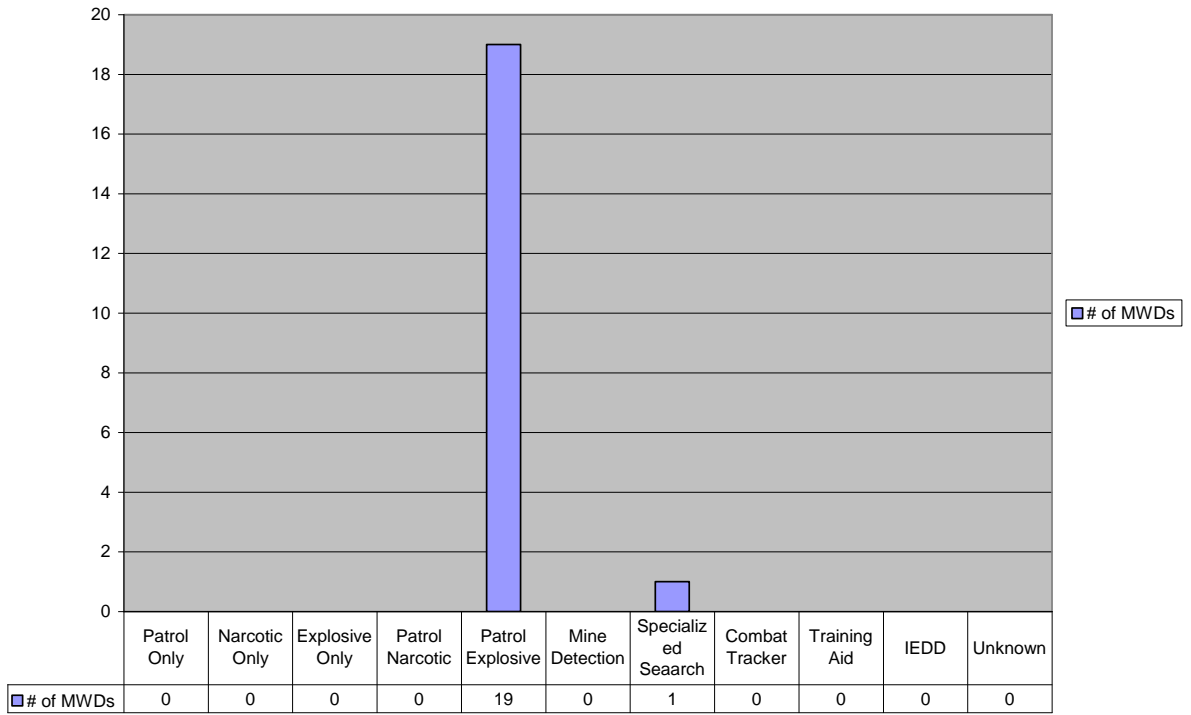
Death by Breed



Death by Branch of Service

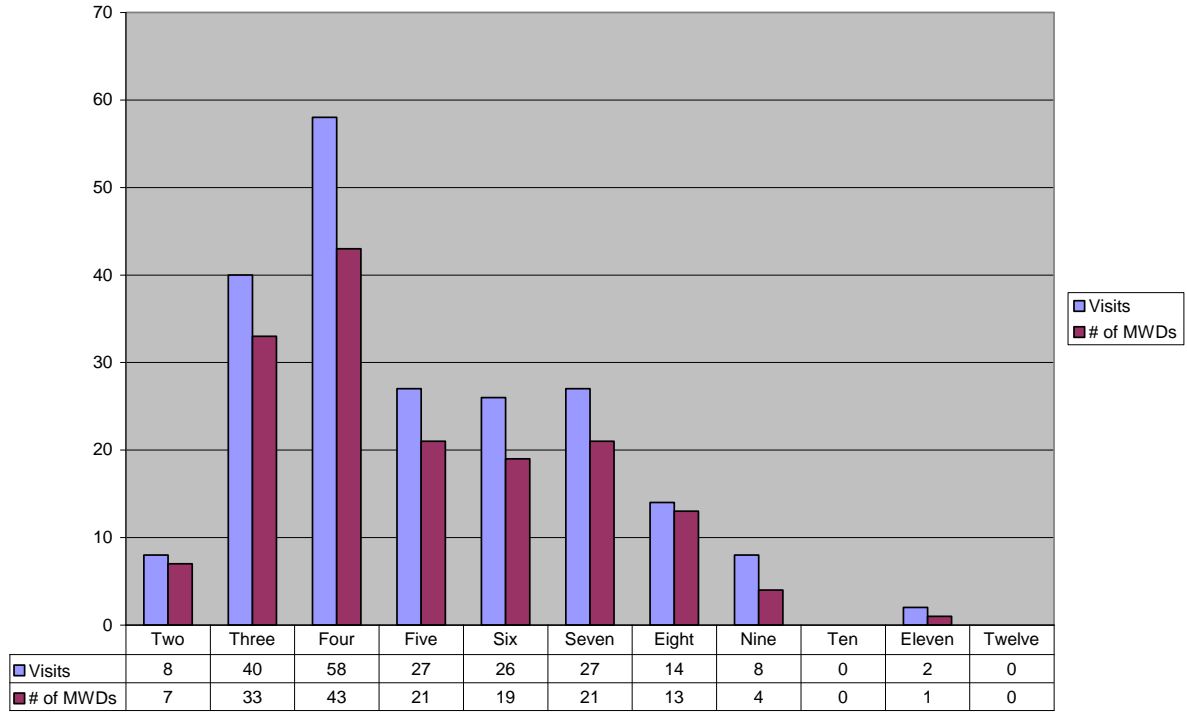


Death by Certification

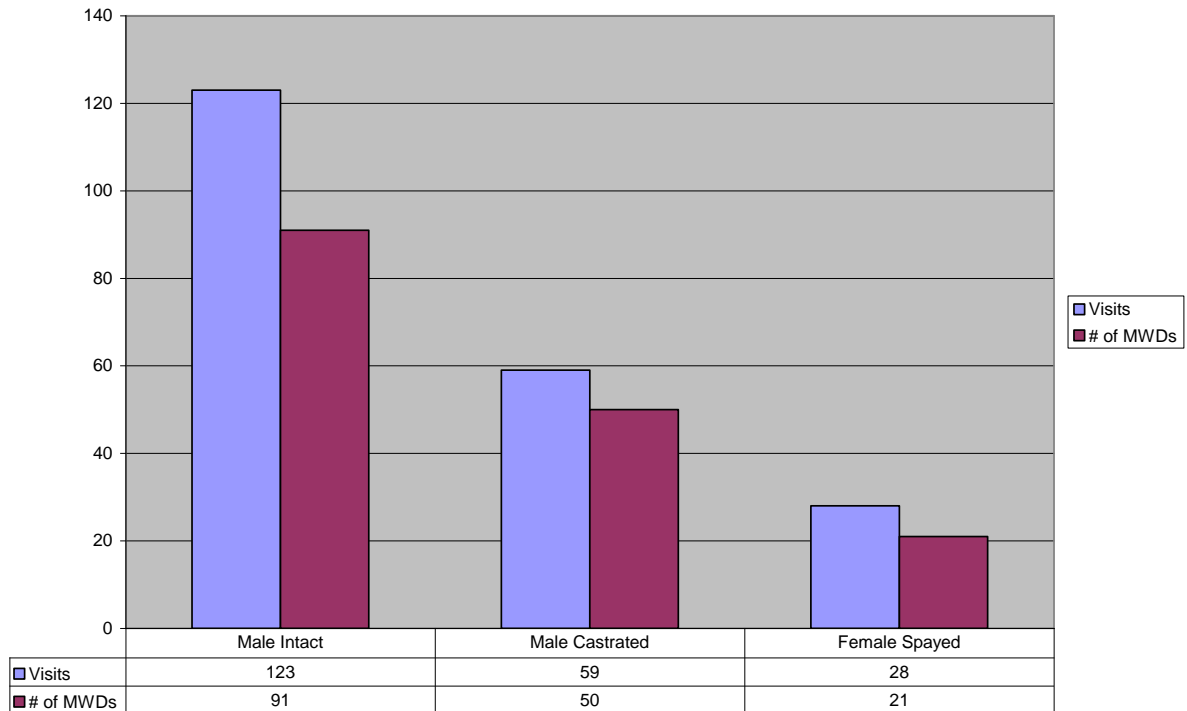


Dermatology

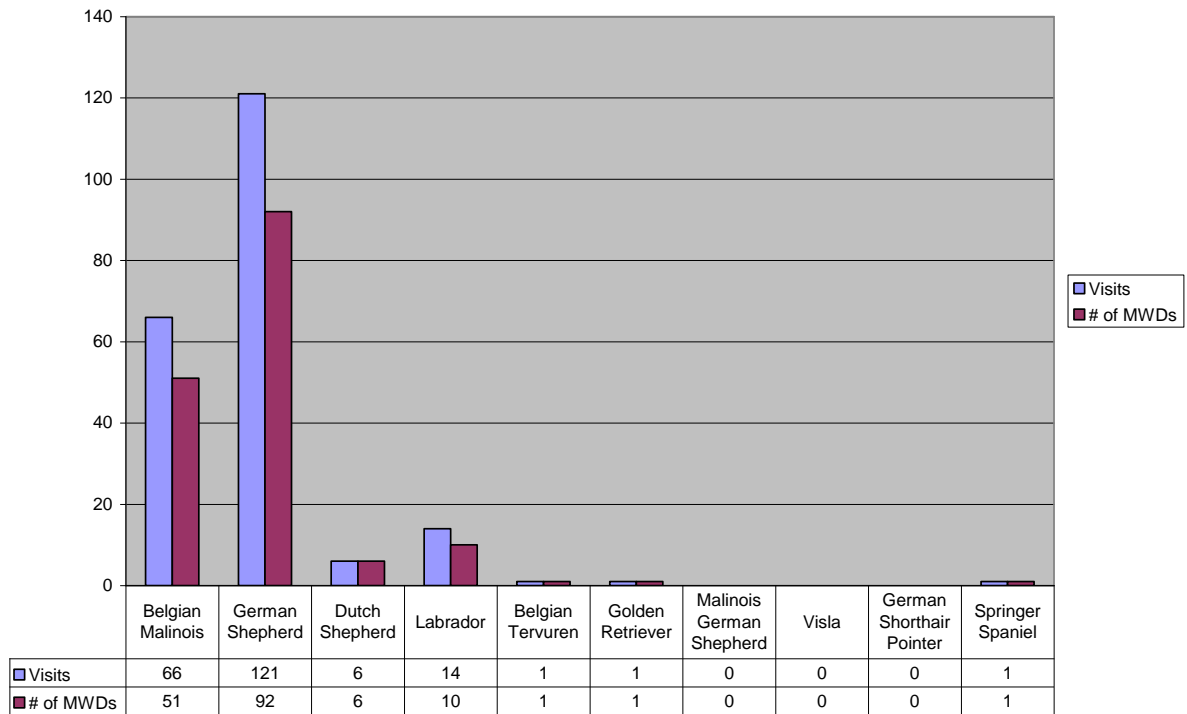
Dermatology by Age in Years



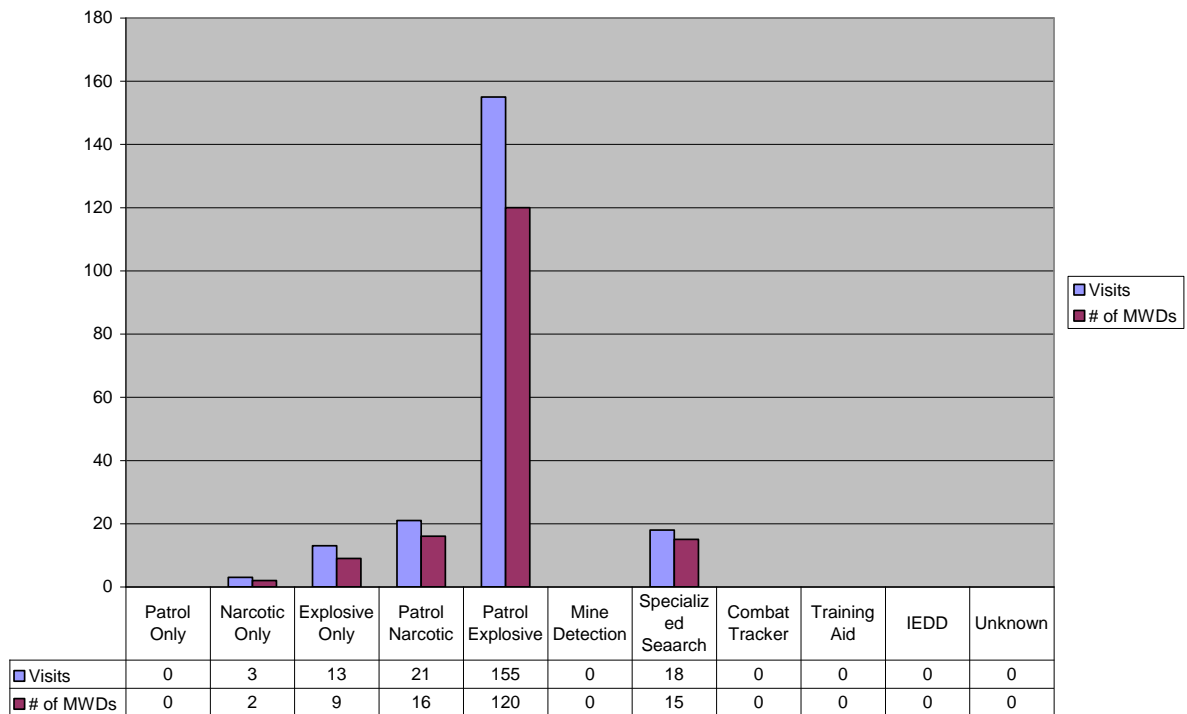
Dermatology by Gender



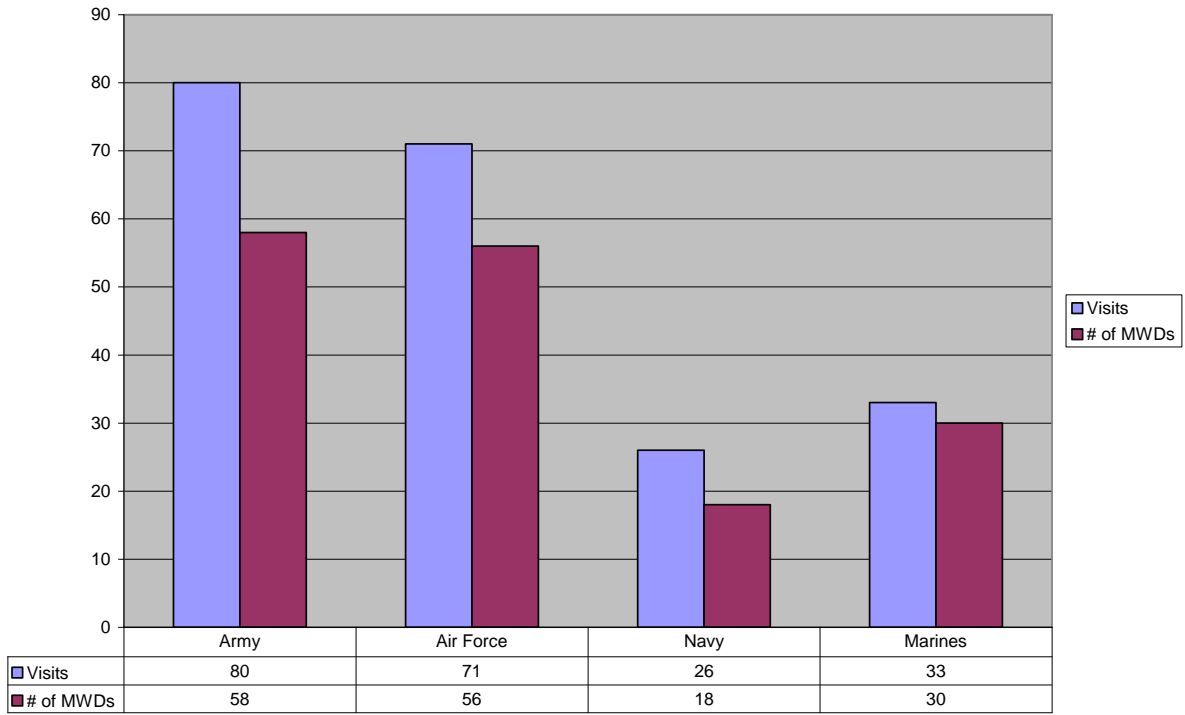
Dermatology by Breed



Dermatology by Certification

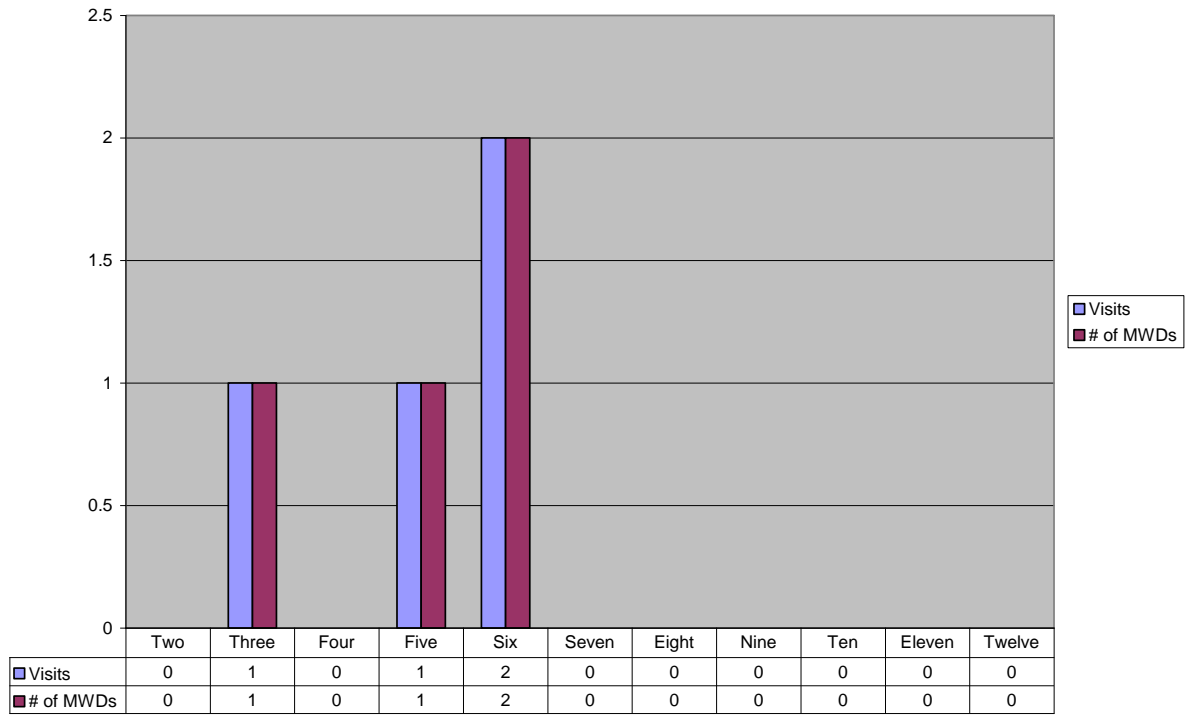


Dermatology by Branch of Service

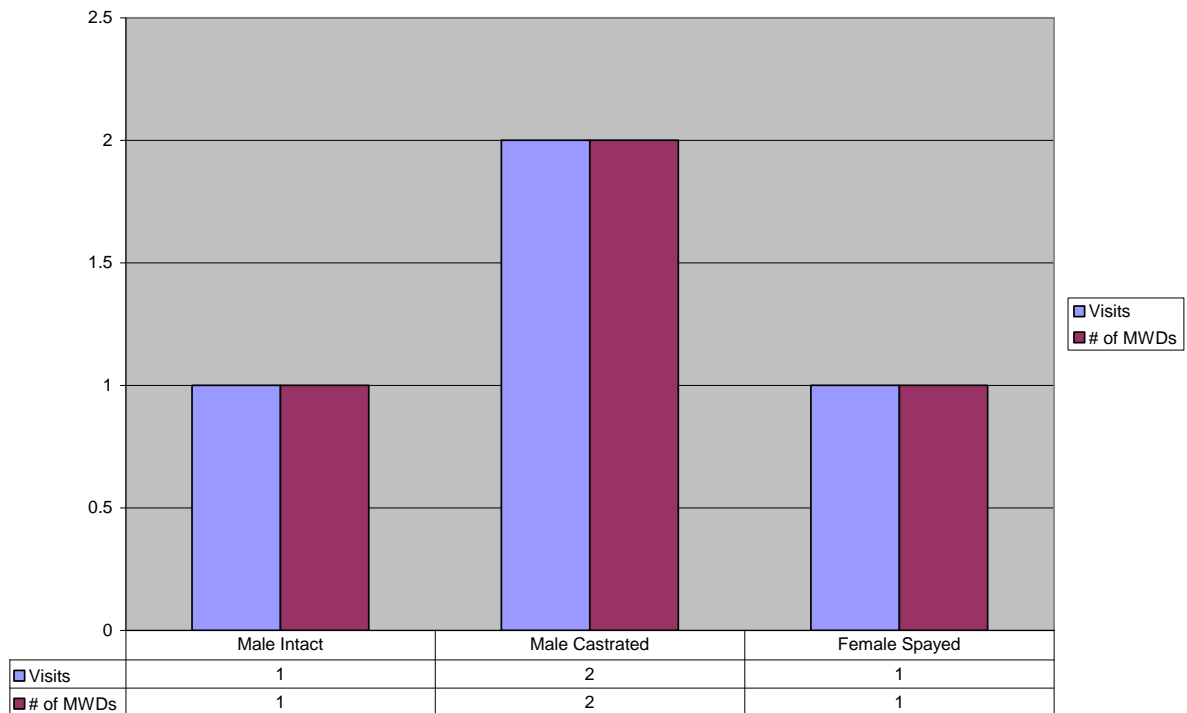


Exposure

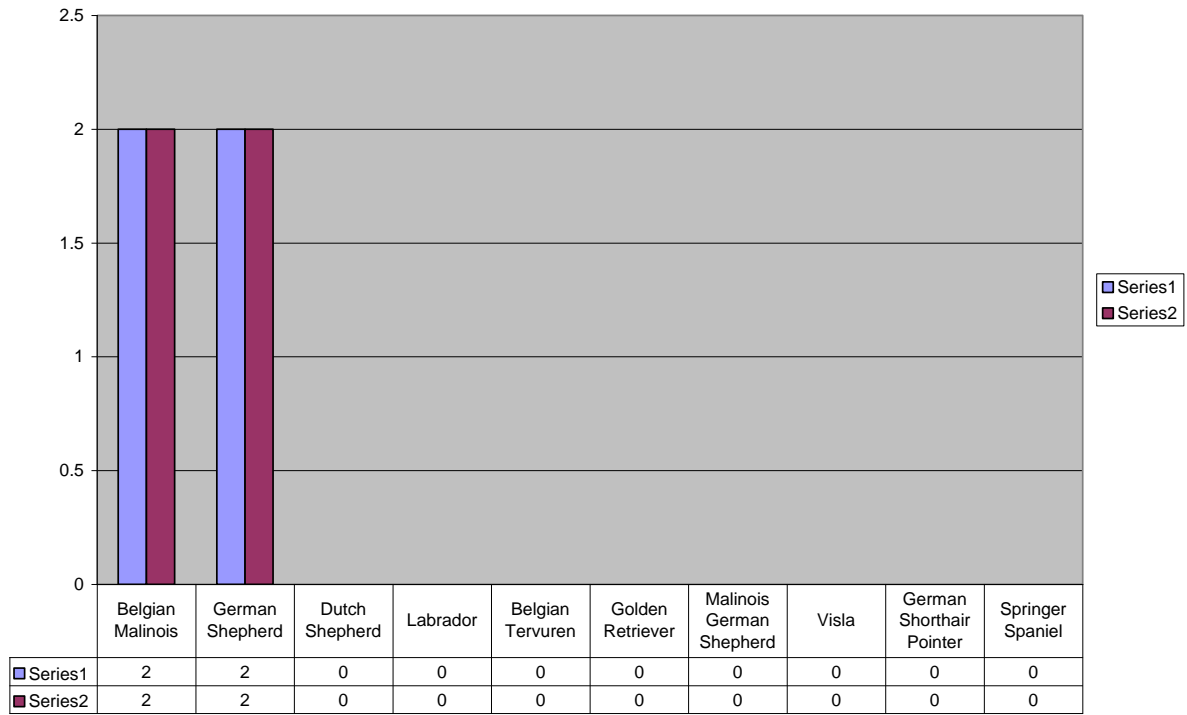
Exposure by Age in Years



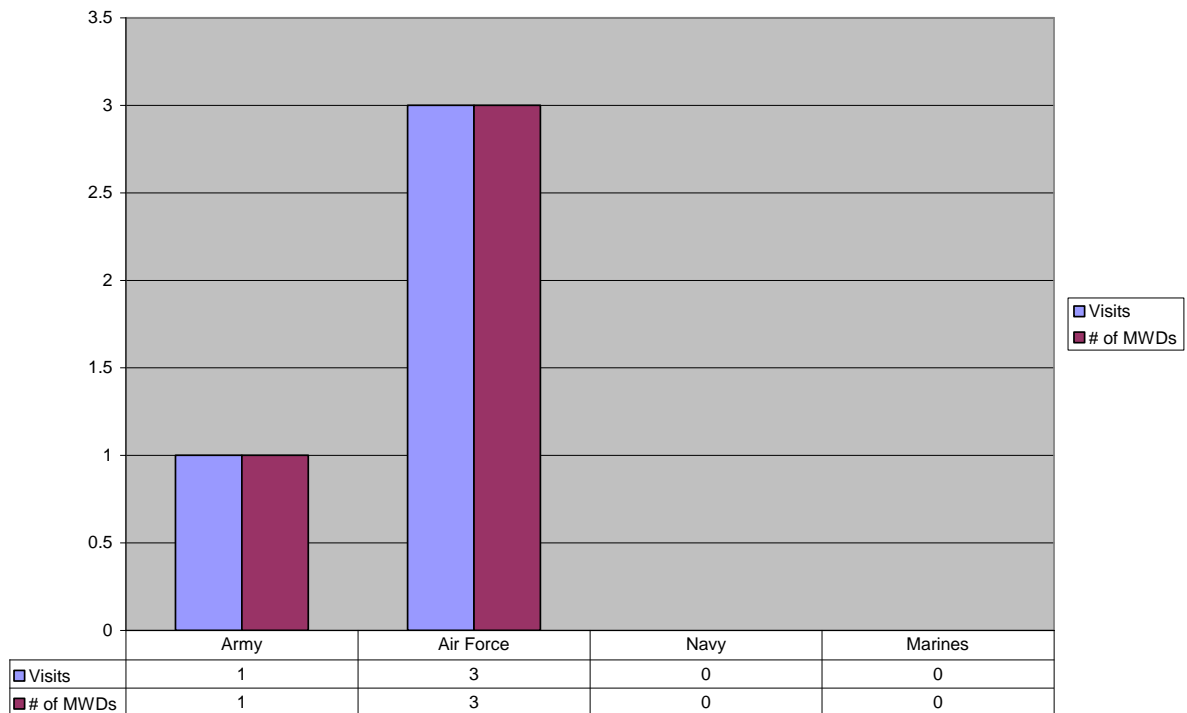
Exposure by Gender



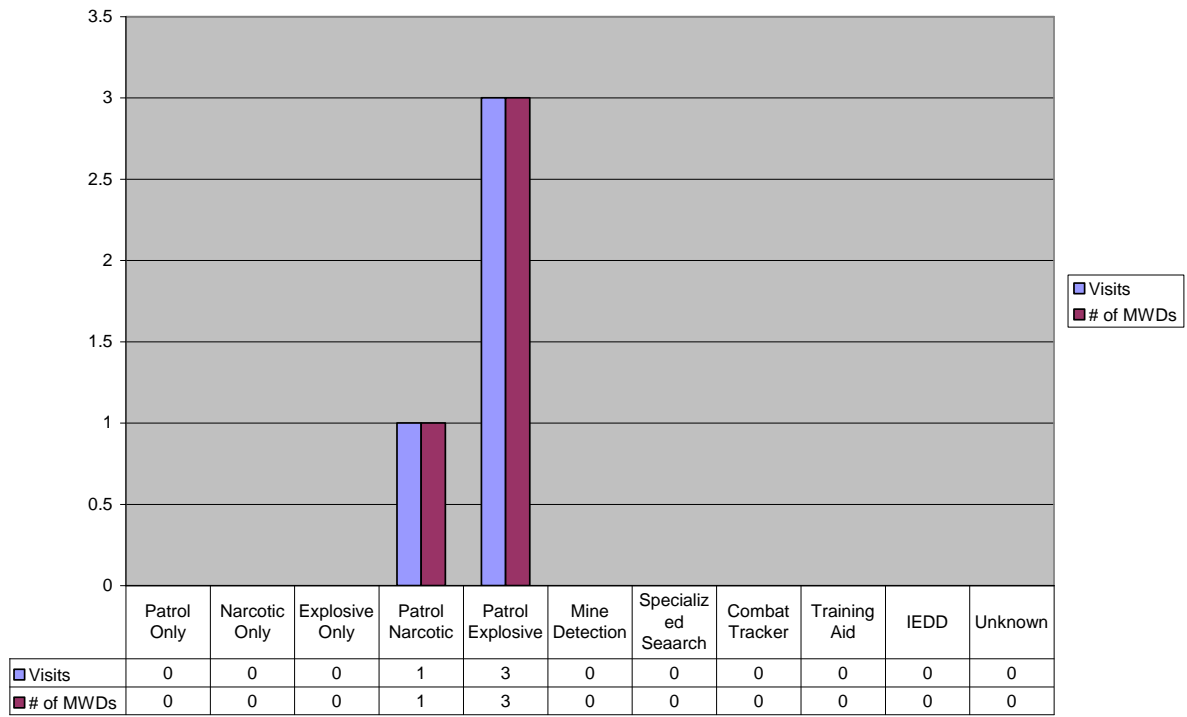
Exposure by Breed



Exposure by Branch of Service

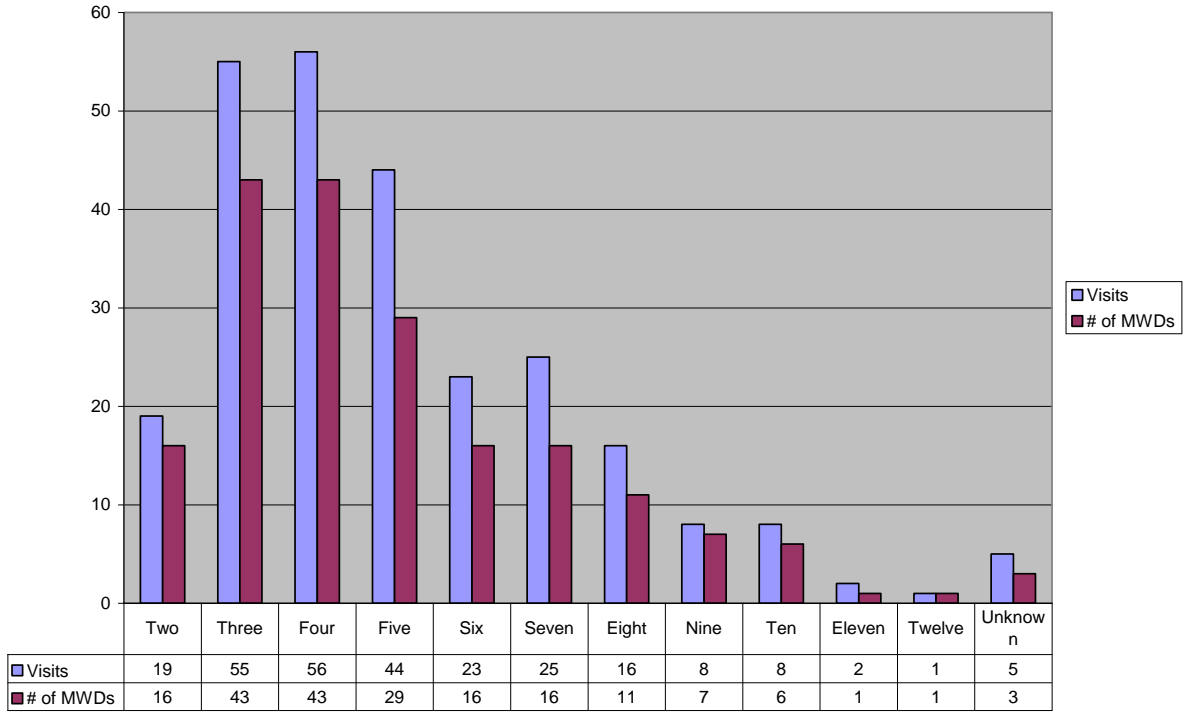


Exposure by Certification

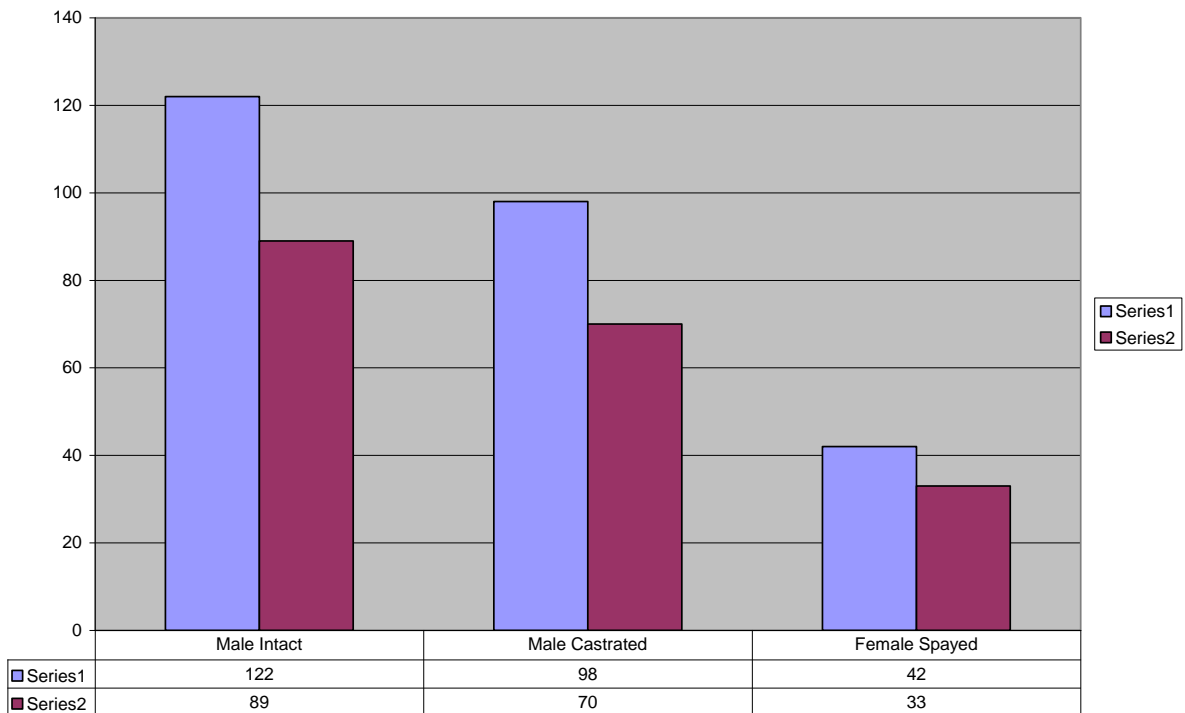


Gastrohepatic

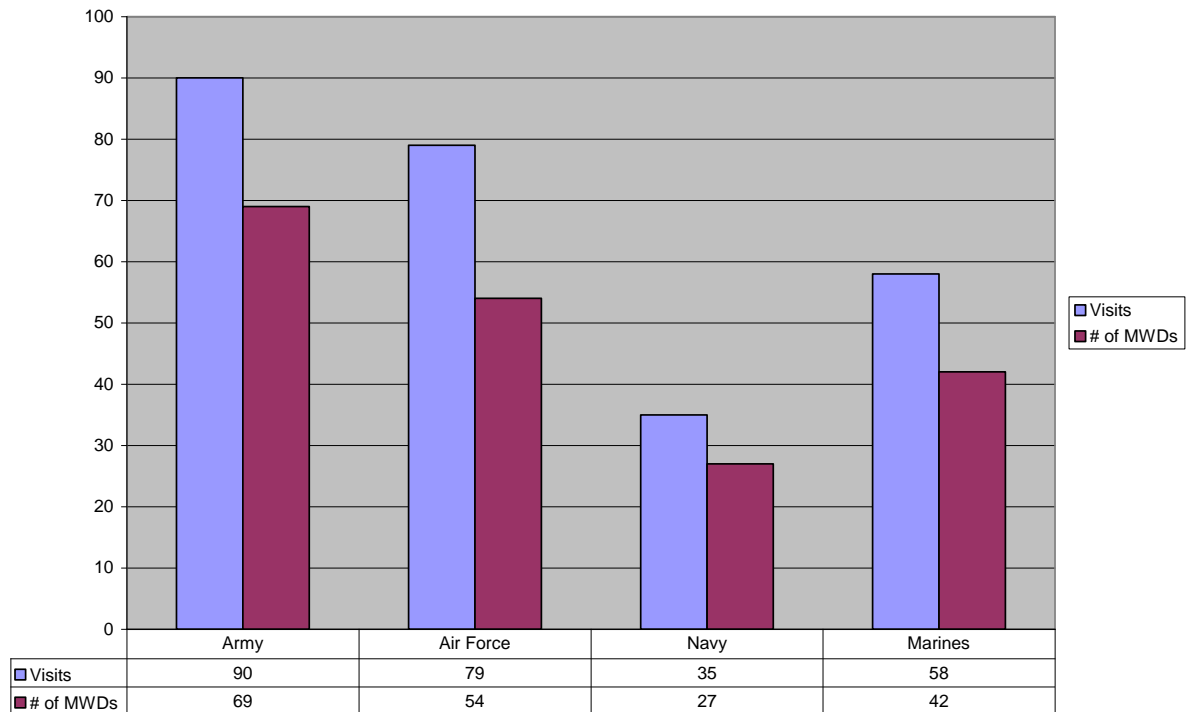
Gastrohepatic by Age in Years



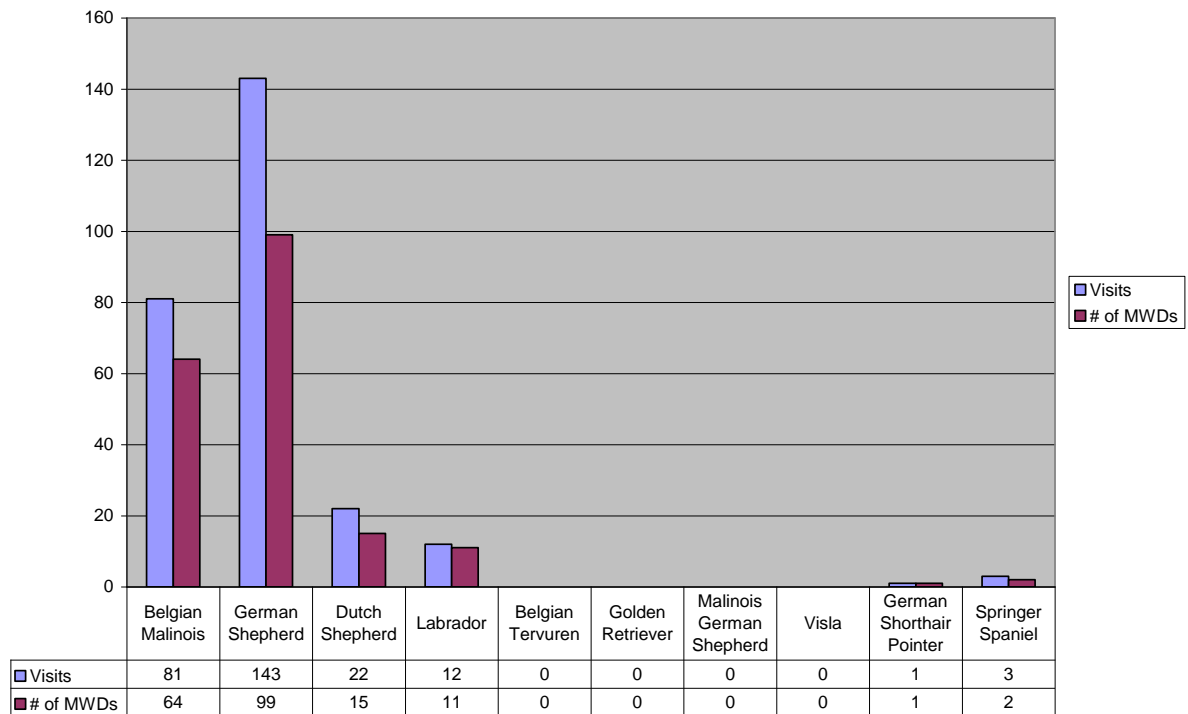
Gastrohepatic by Gender



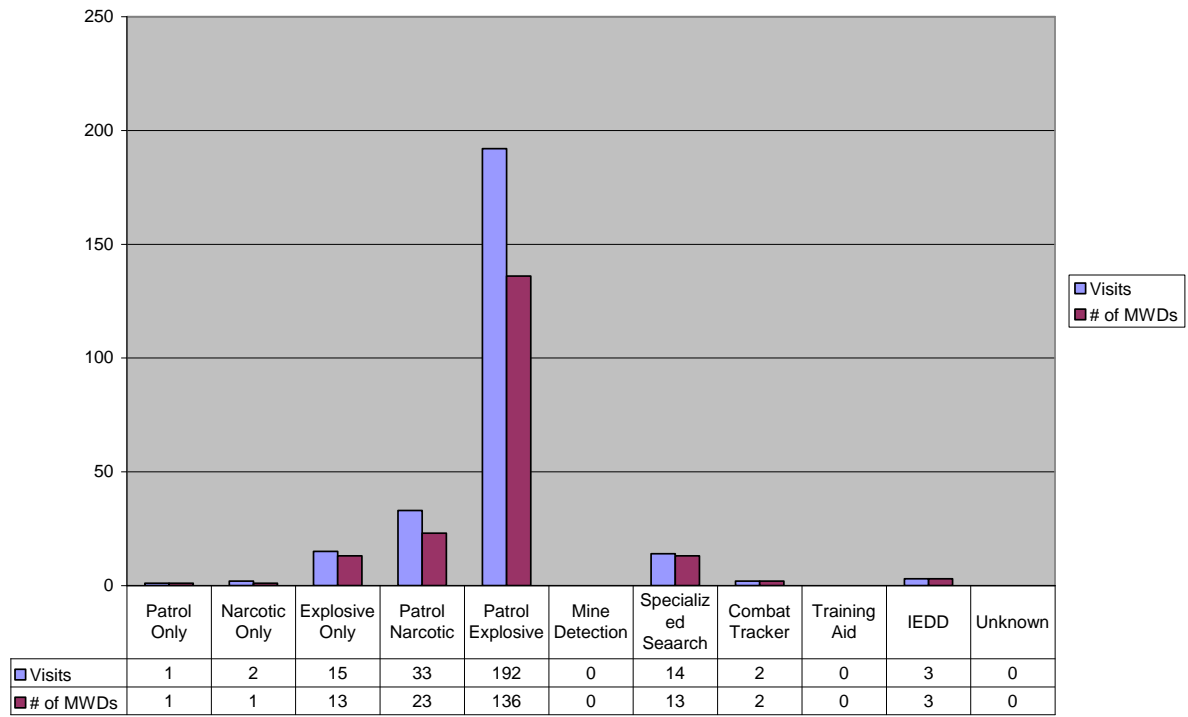
Gastrohepatic by Branch of Service



Gastrohepatic by Breed

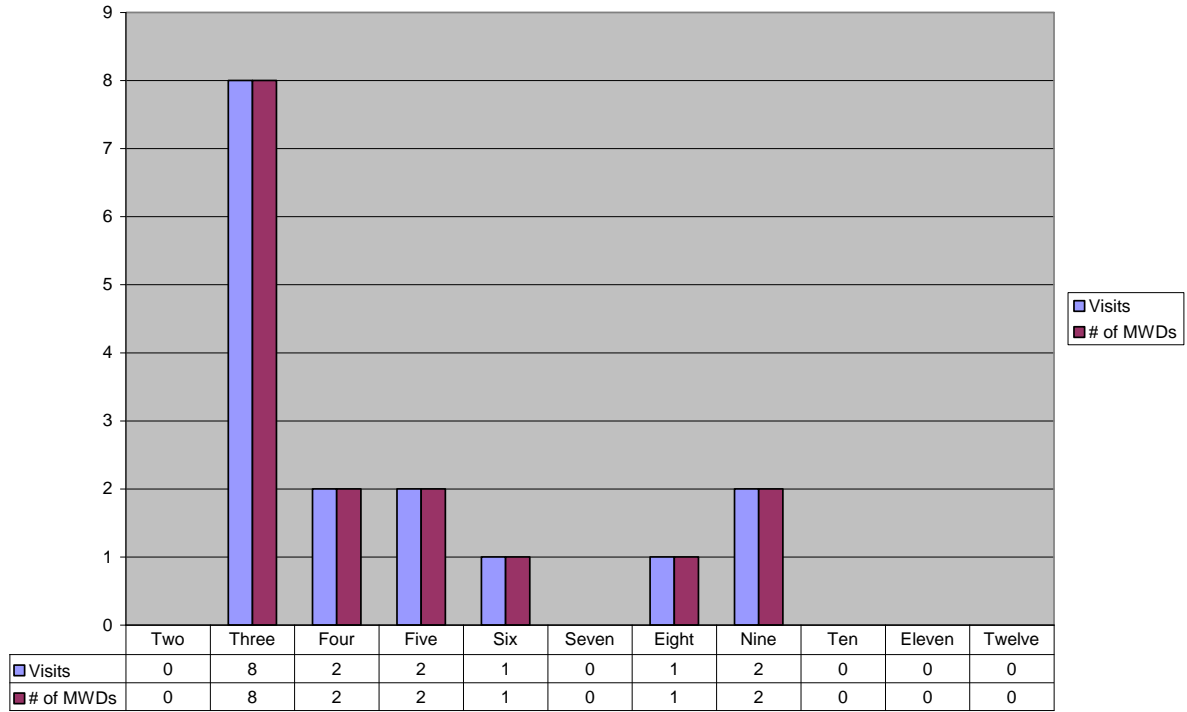


Gastrohepatic by Certification

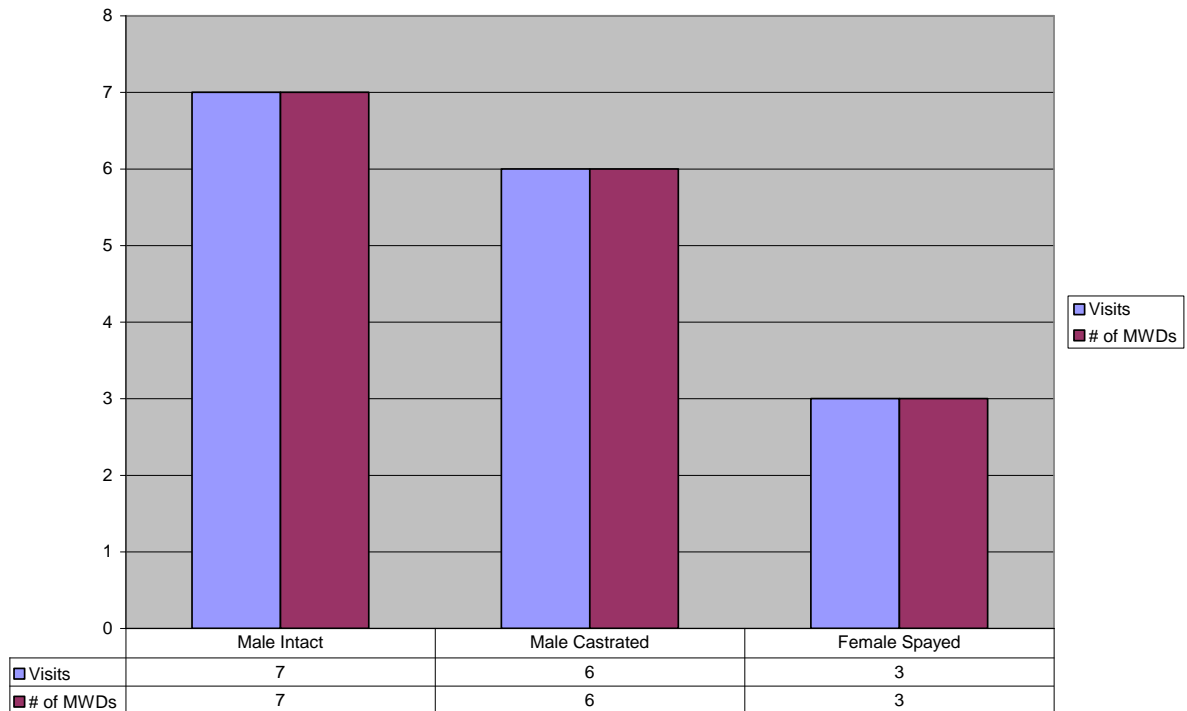


Heat Injury

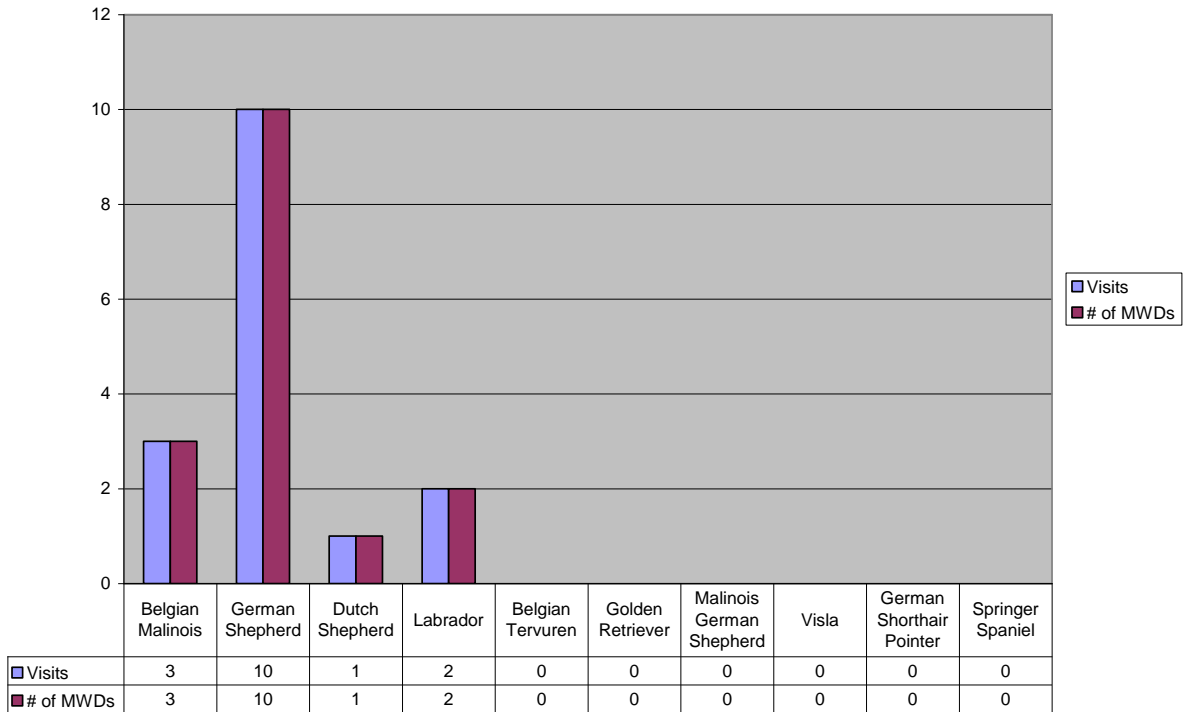
Heat by Age in Years



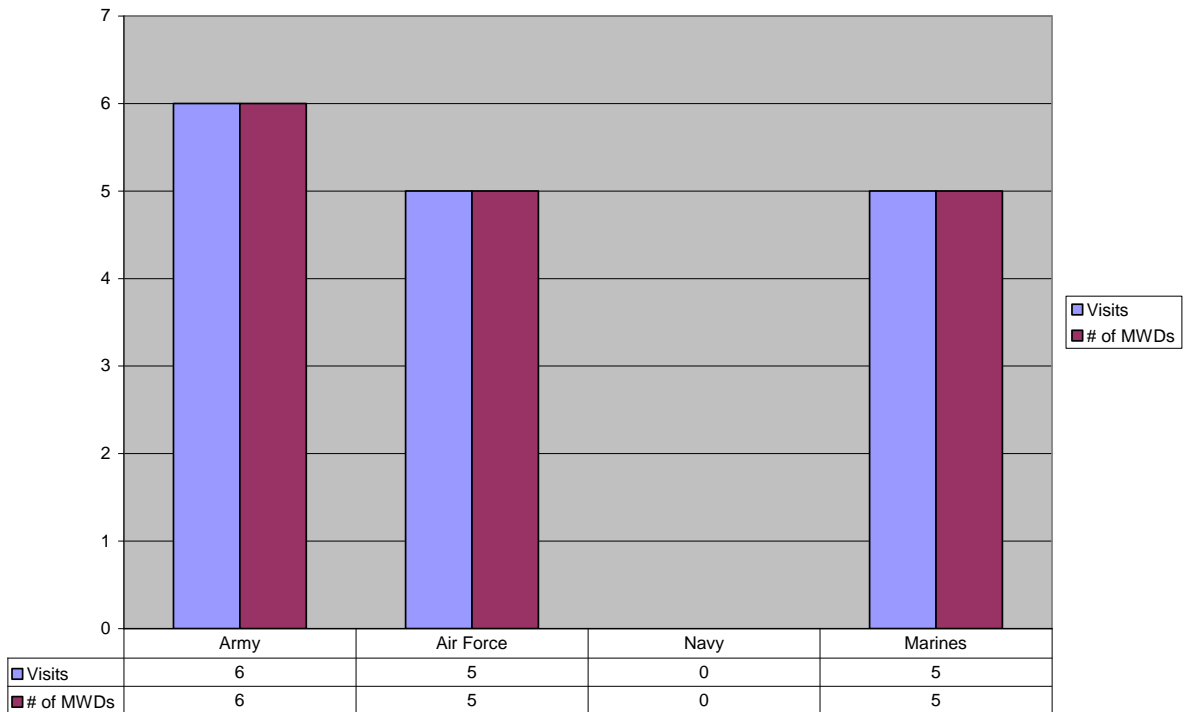
Heat by Gender



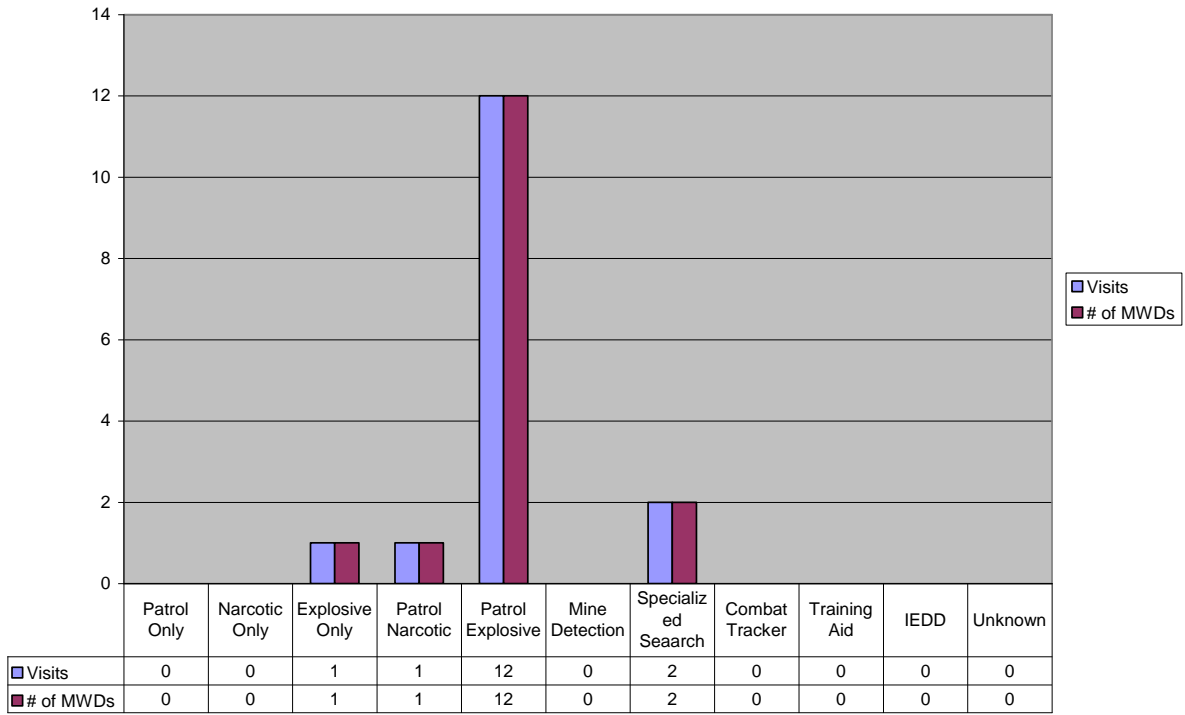
Heat by Breed



Heat by Branch of Service

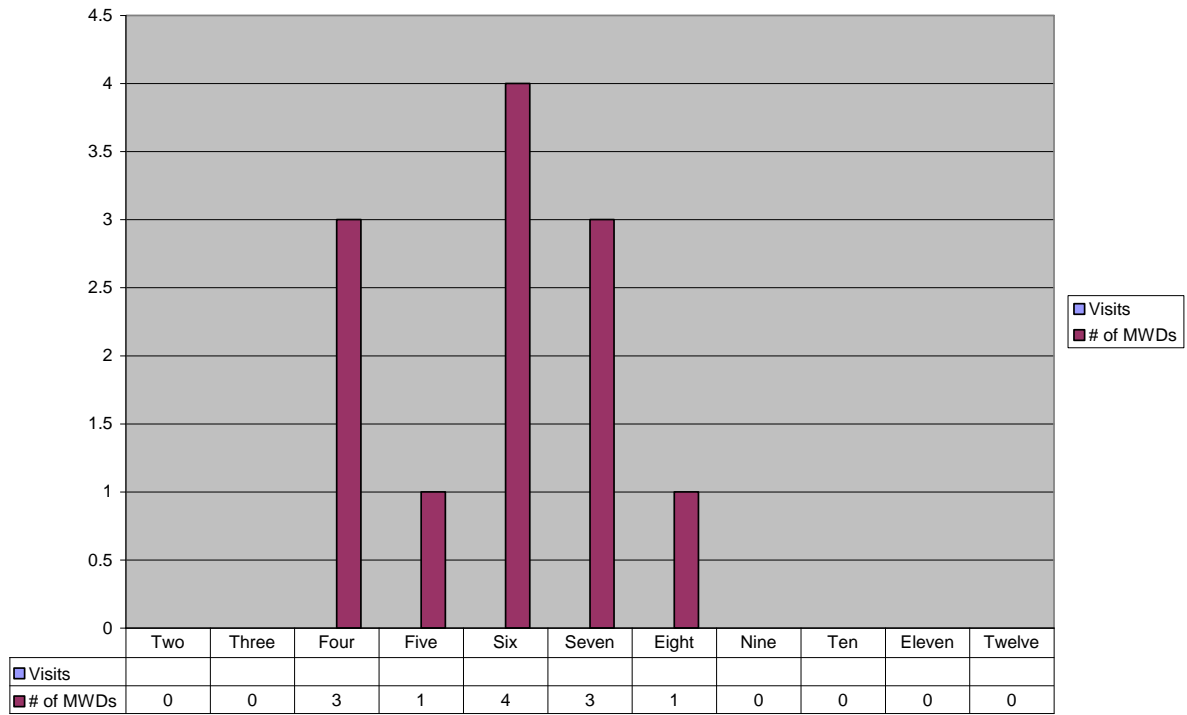


Heat by Certification

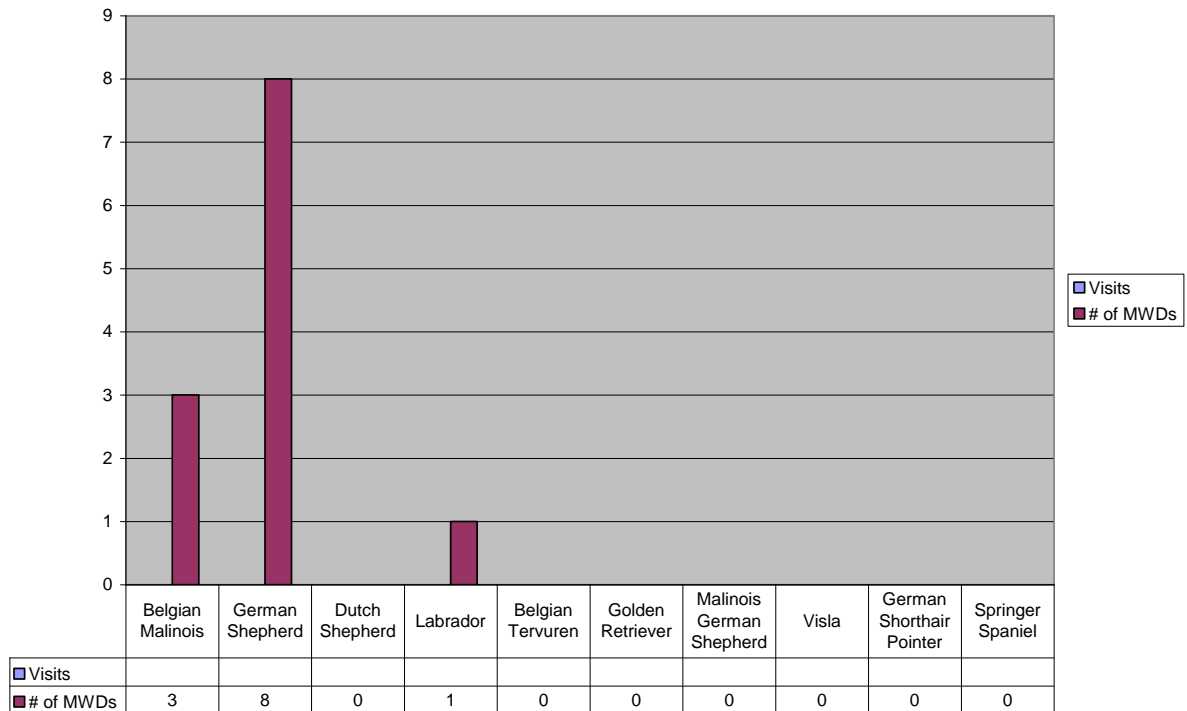


Medically Evacuated (Med Evac'd)

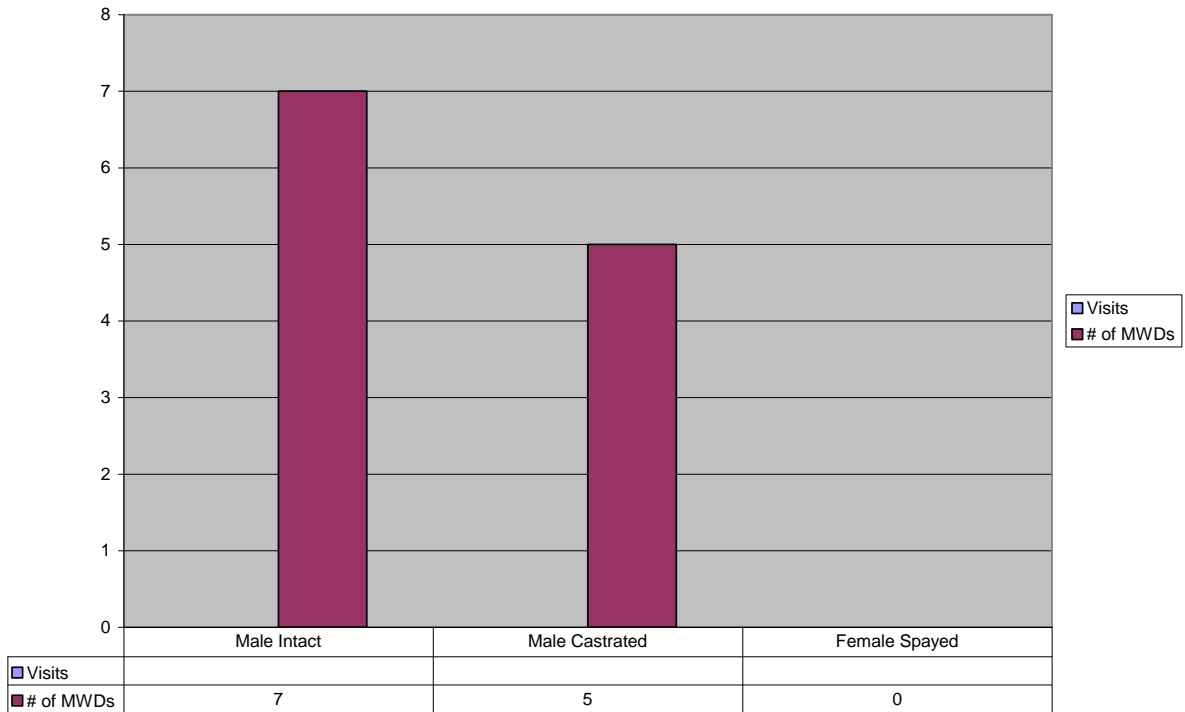
Med Evac'd by Age in Years



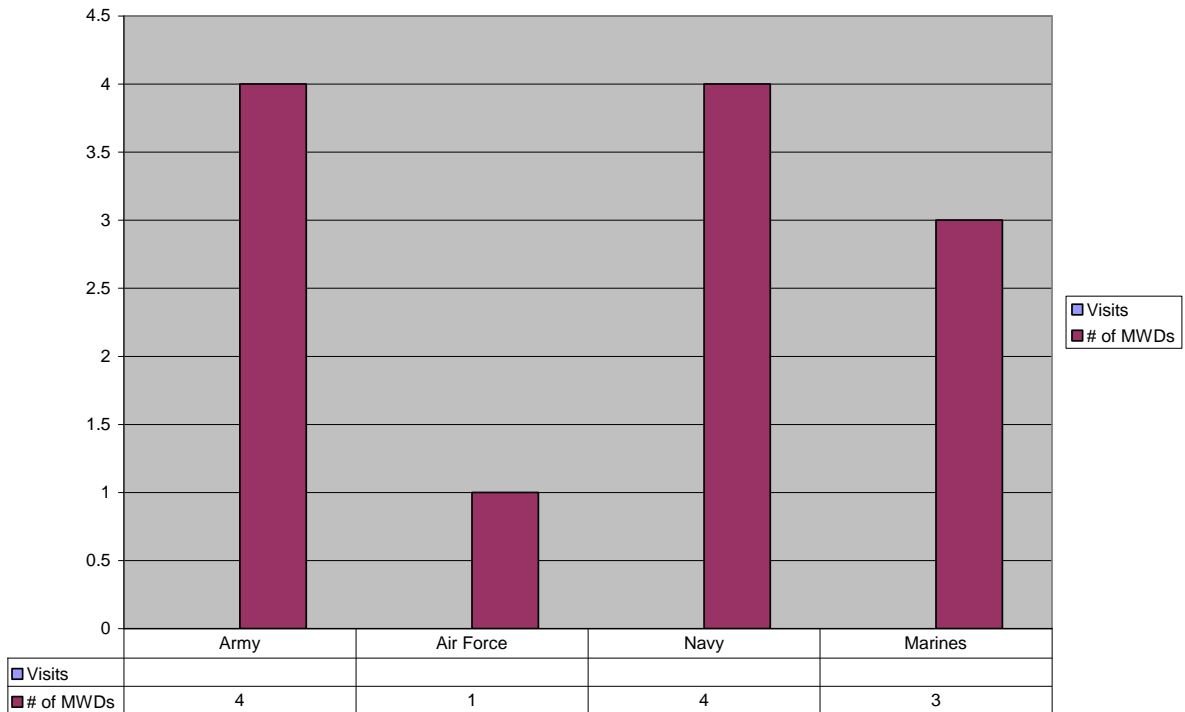
Med Evac'd by Breed



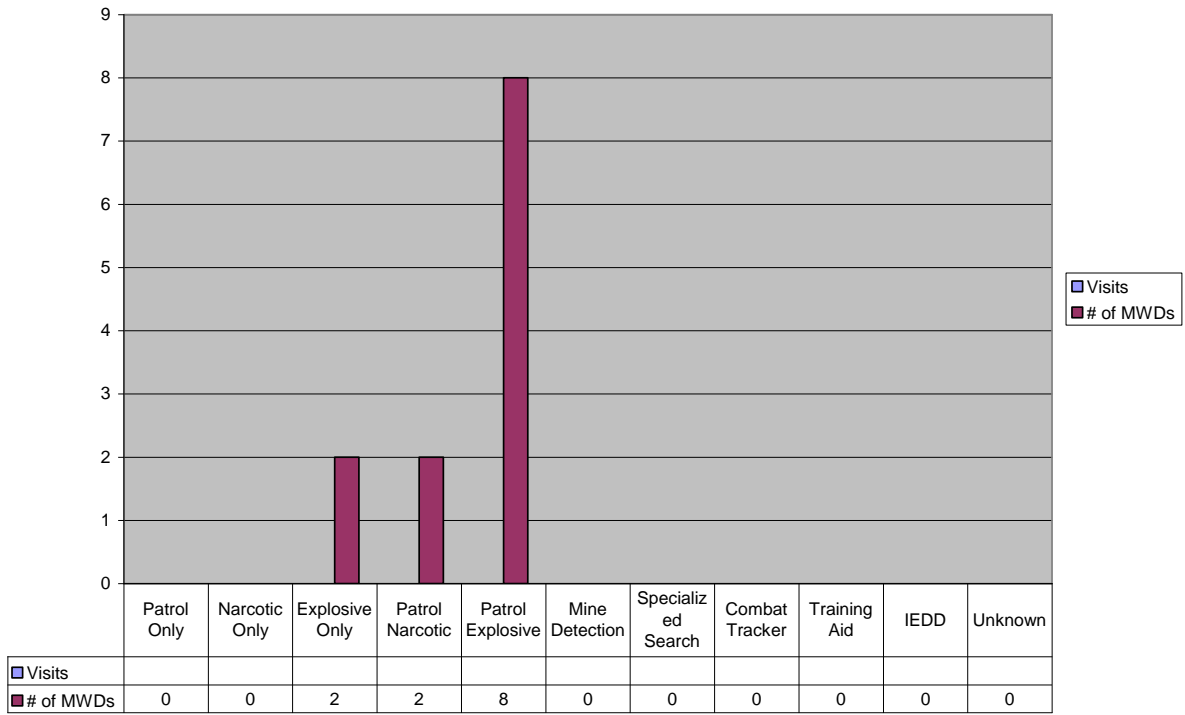
Med Evac'd by Gender



Med Evac'd by Branch of Service

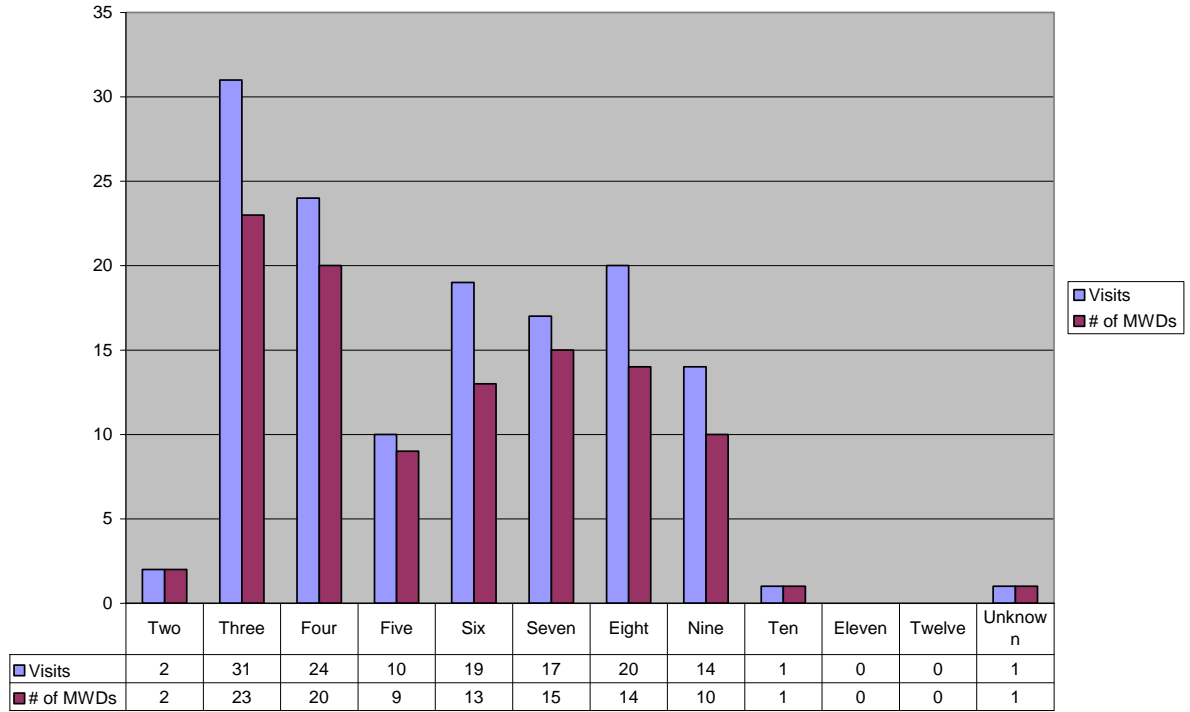


Med Evac'd by Certification

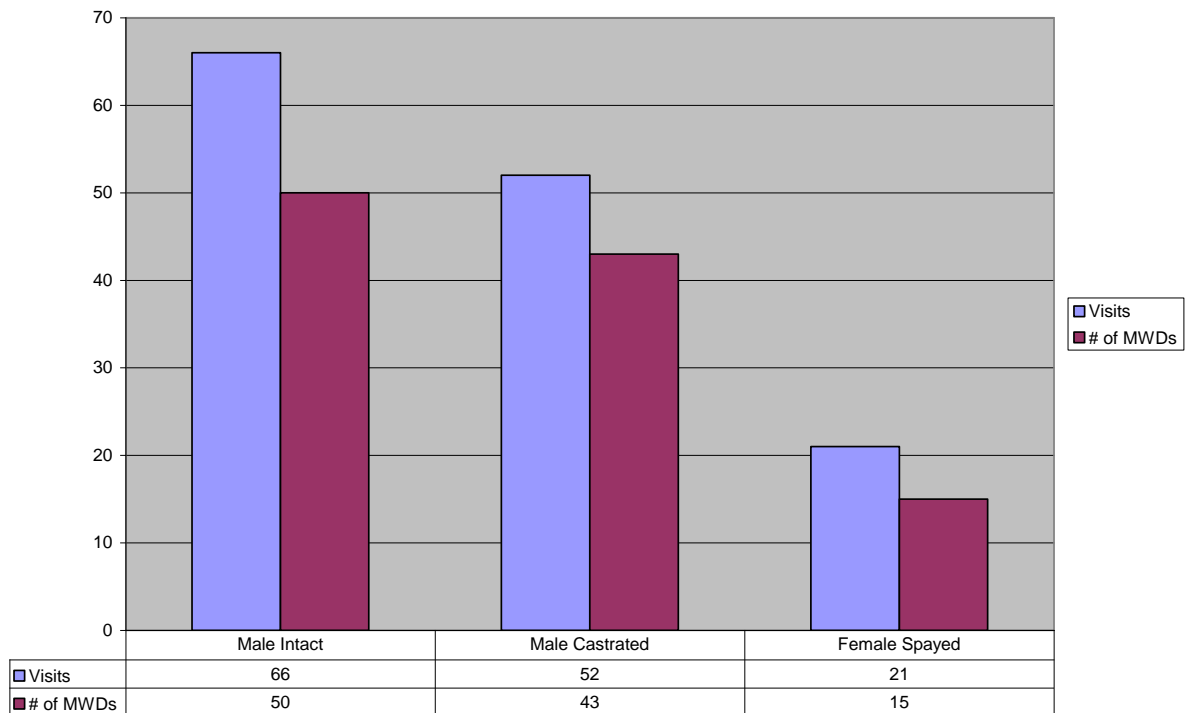


Musculoskeletal

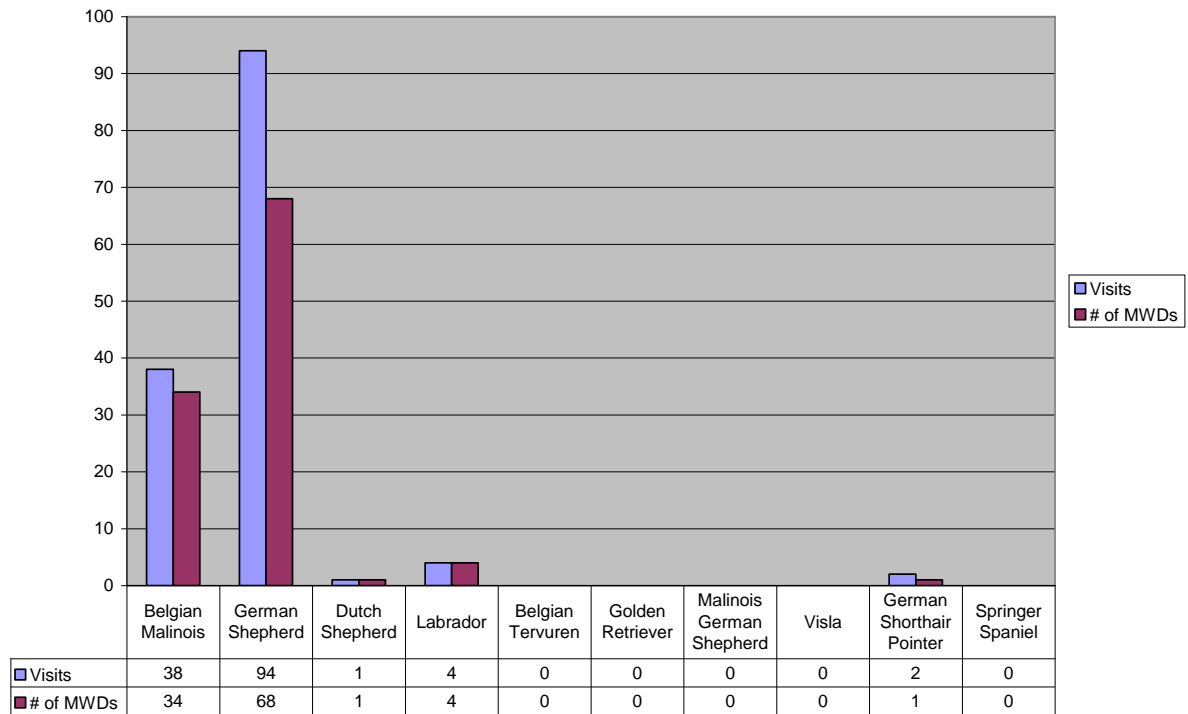
Musculoskeletal by Age in Years



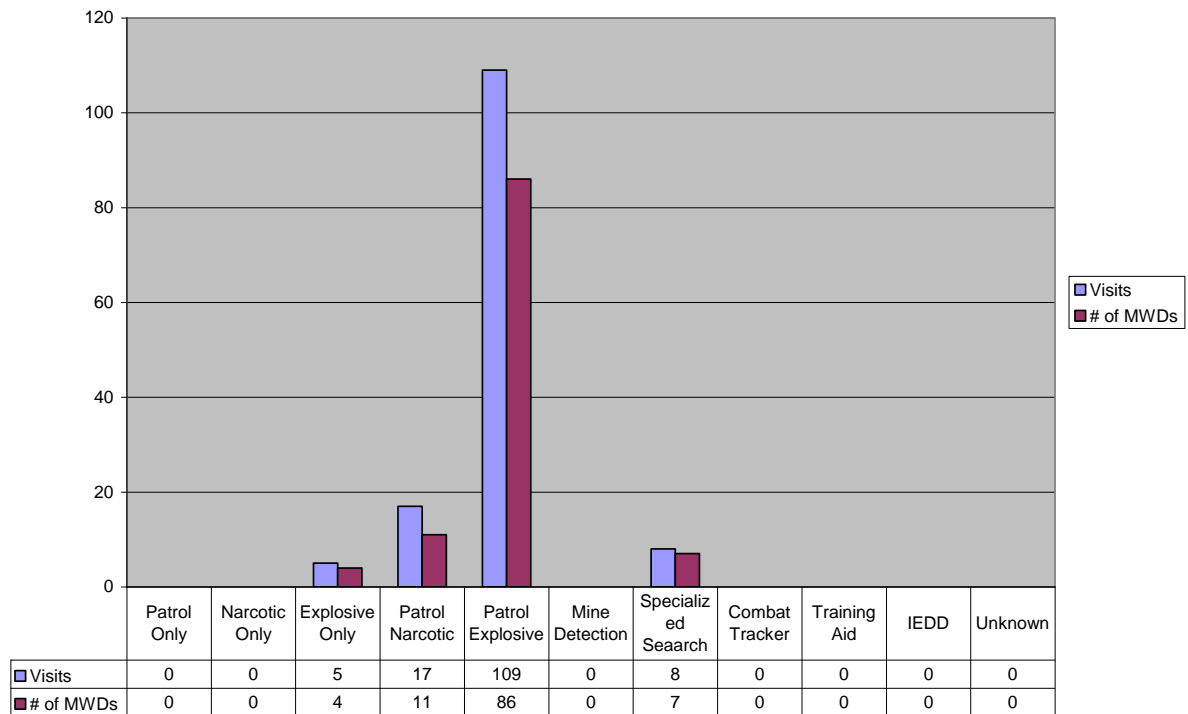
Musculoskeletal by Gender



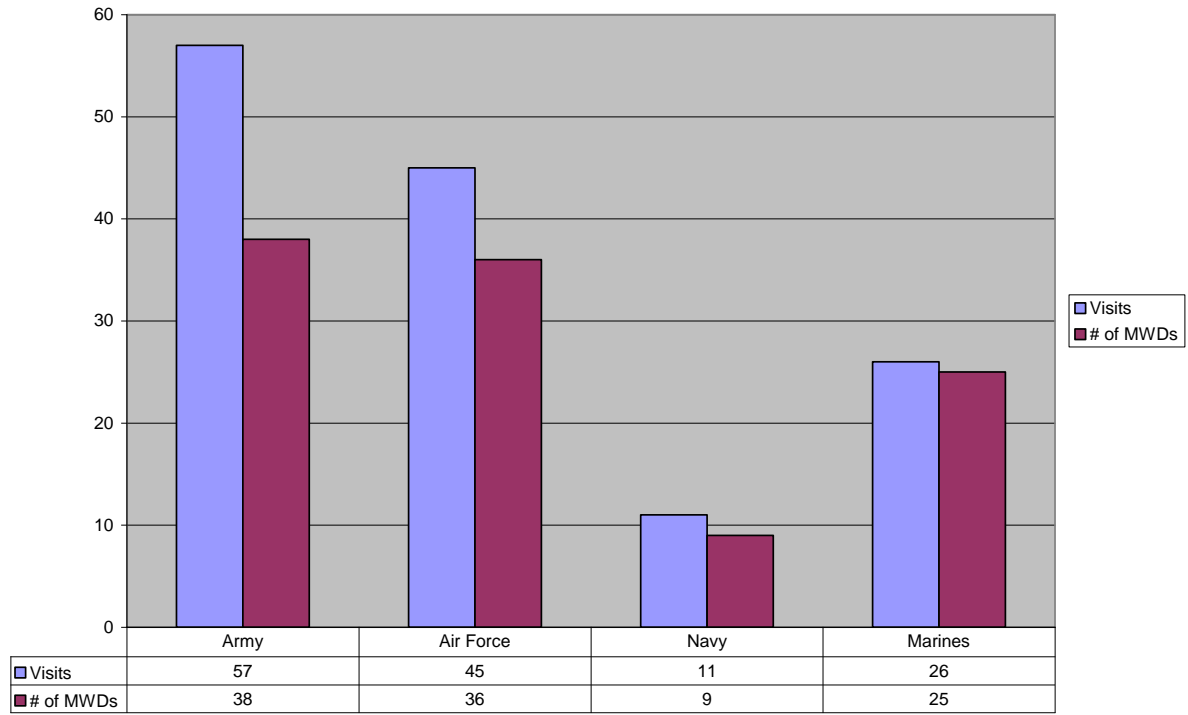
Musculoskeletal by Breed



Musculoskeletal by Certification

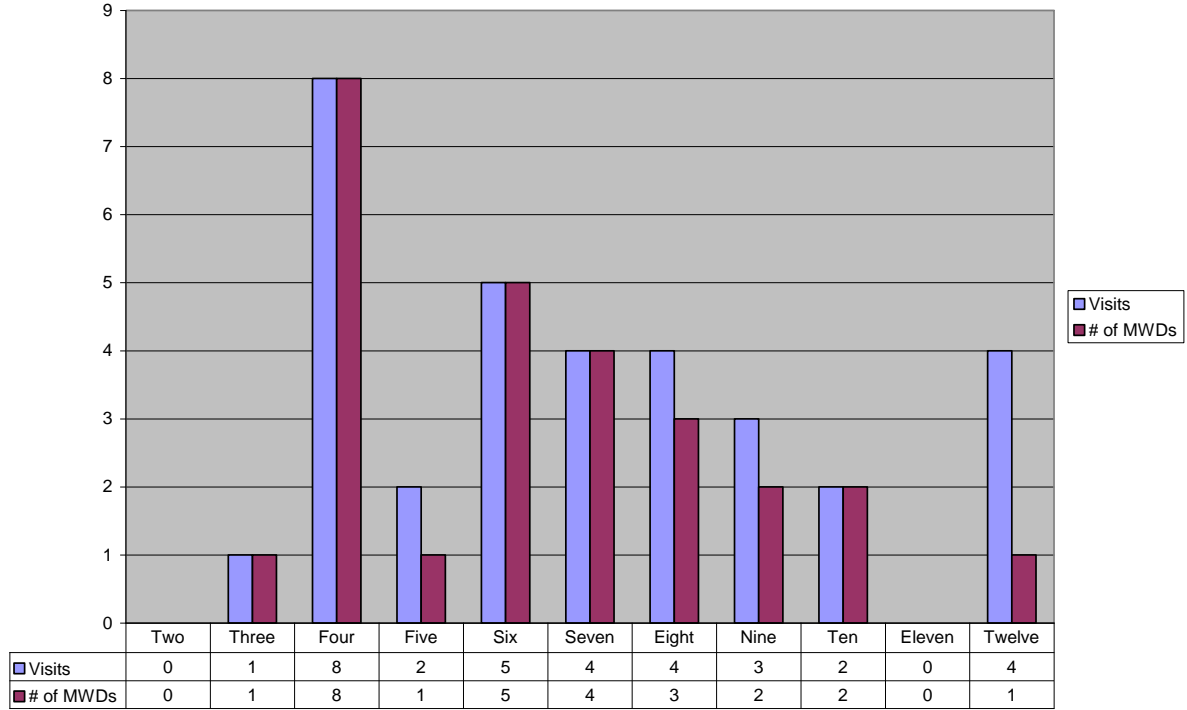


Musculoskeletal by Branch of Service

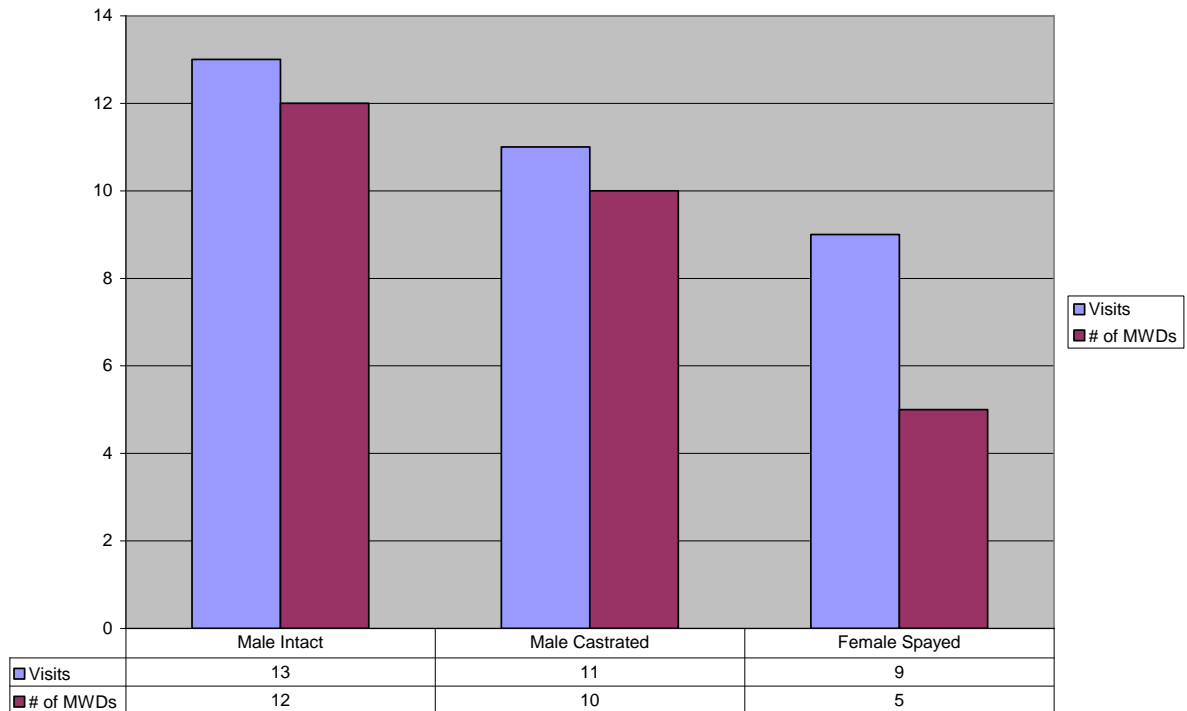


Neoplasia

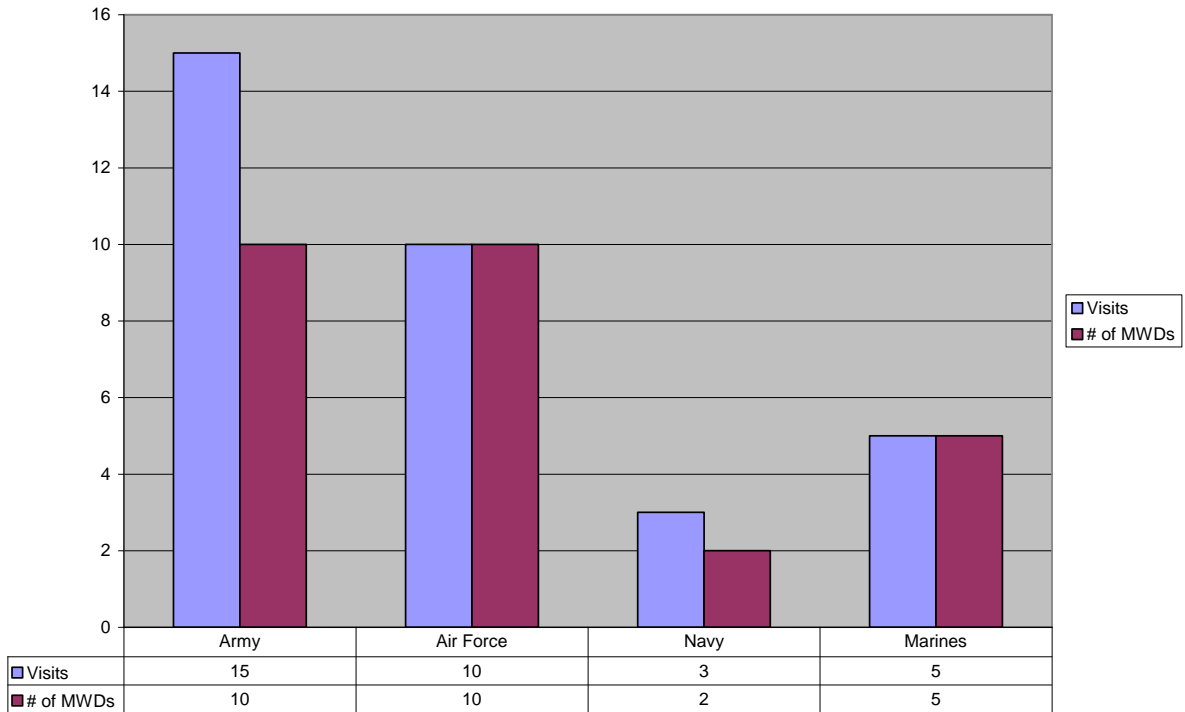
Neoplasia by Age in Years



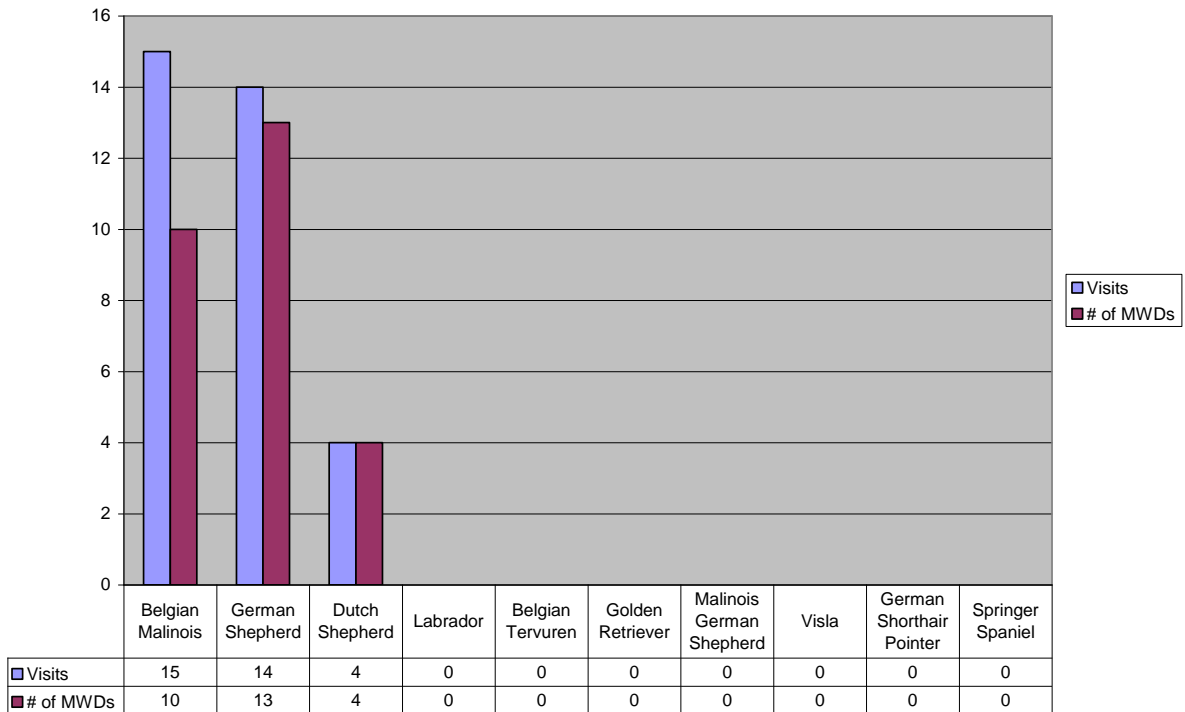
Neoplasia by Gender



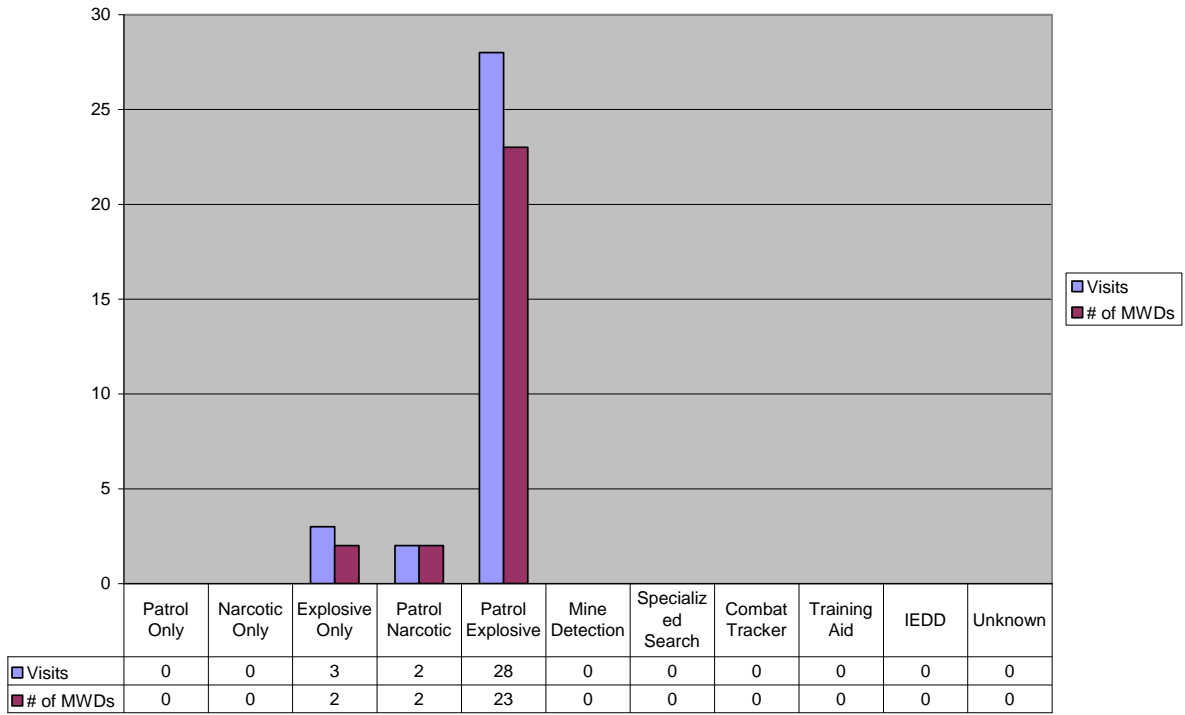
Neoplasia by Branch of Service



Neoplasia by Breed

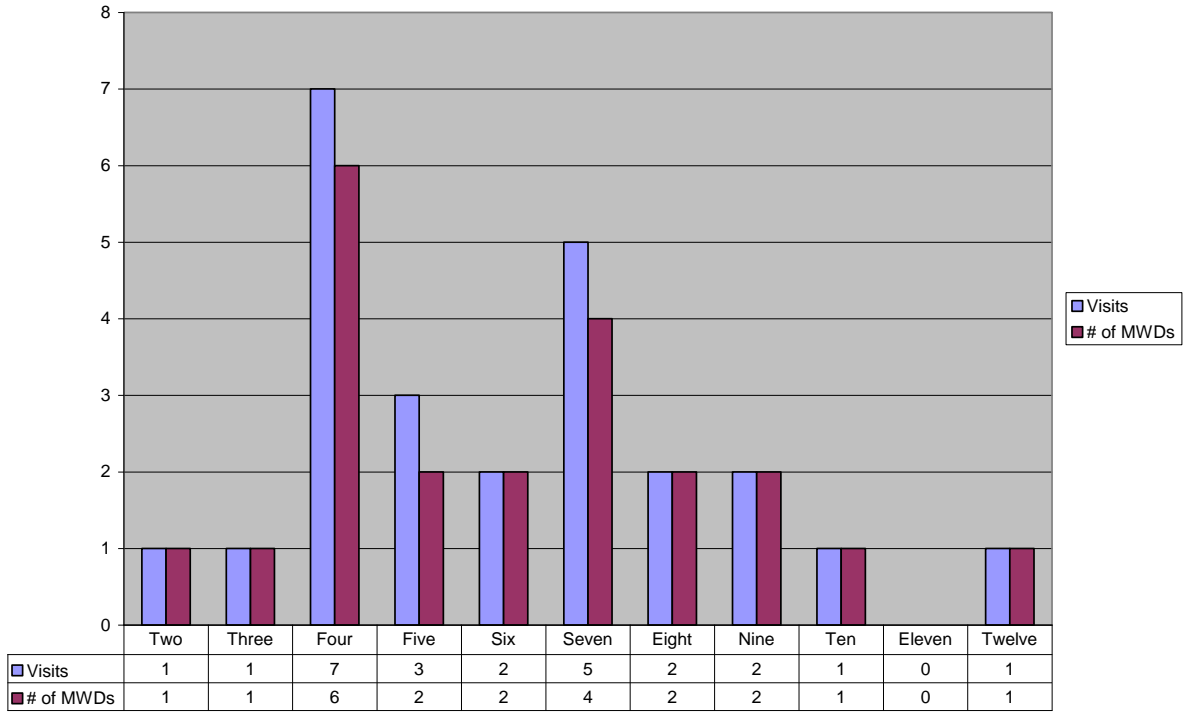


Neoplasia by Certification

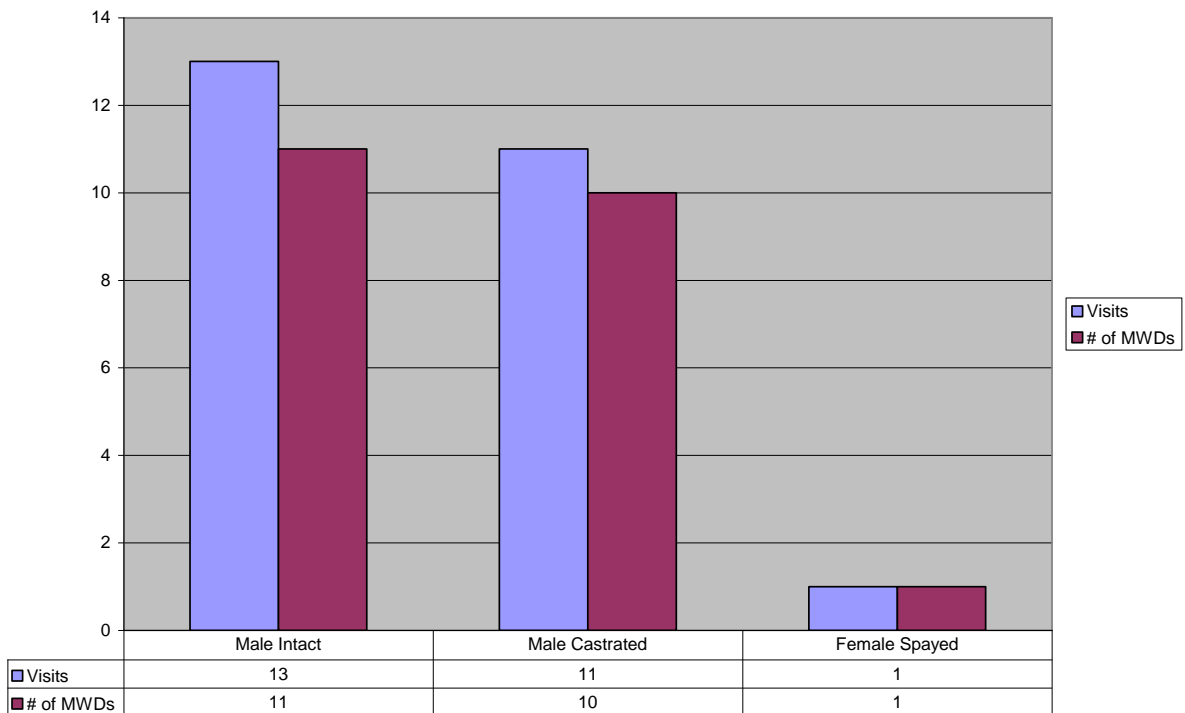


Ophthalmology

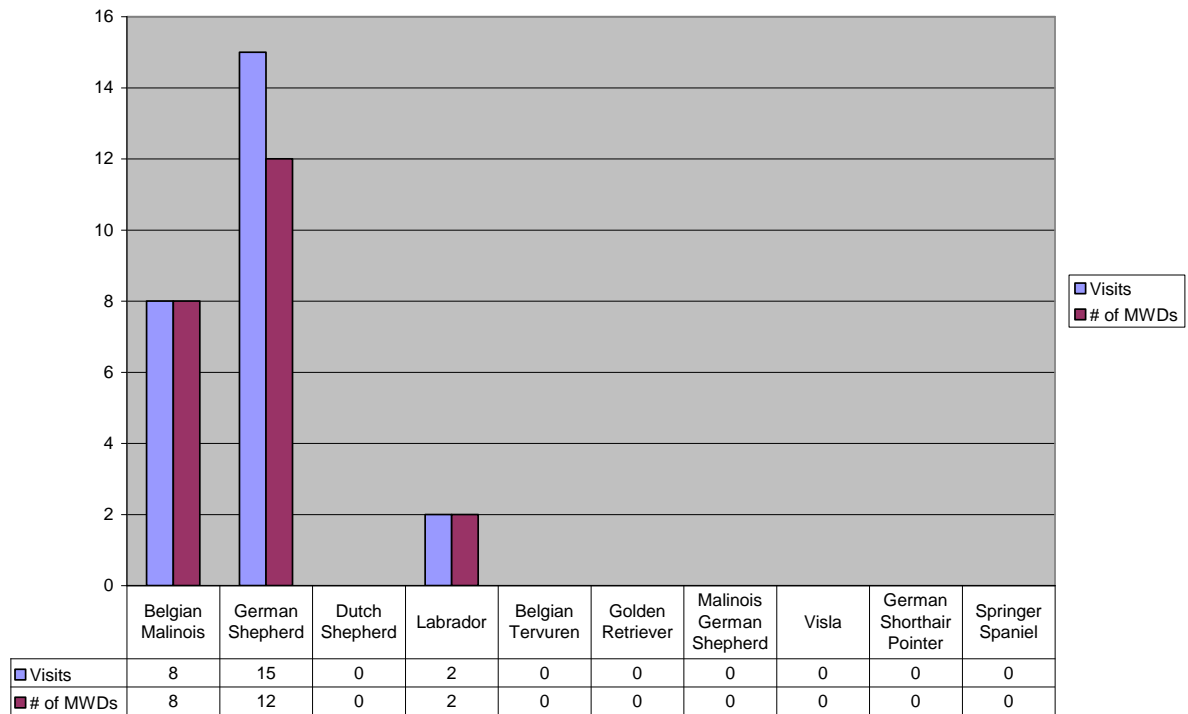
Ophthalmology by Age in Years



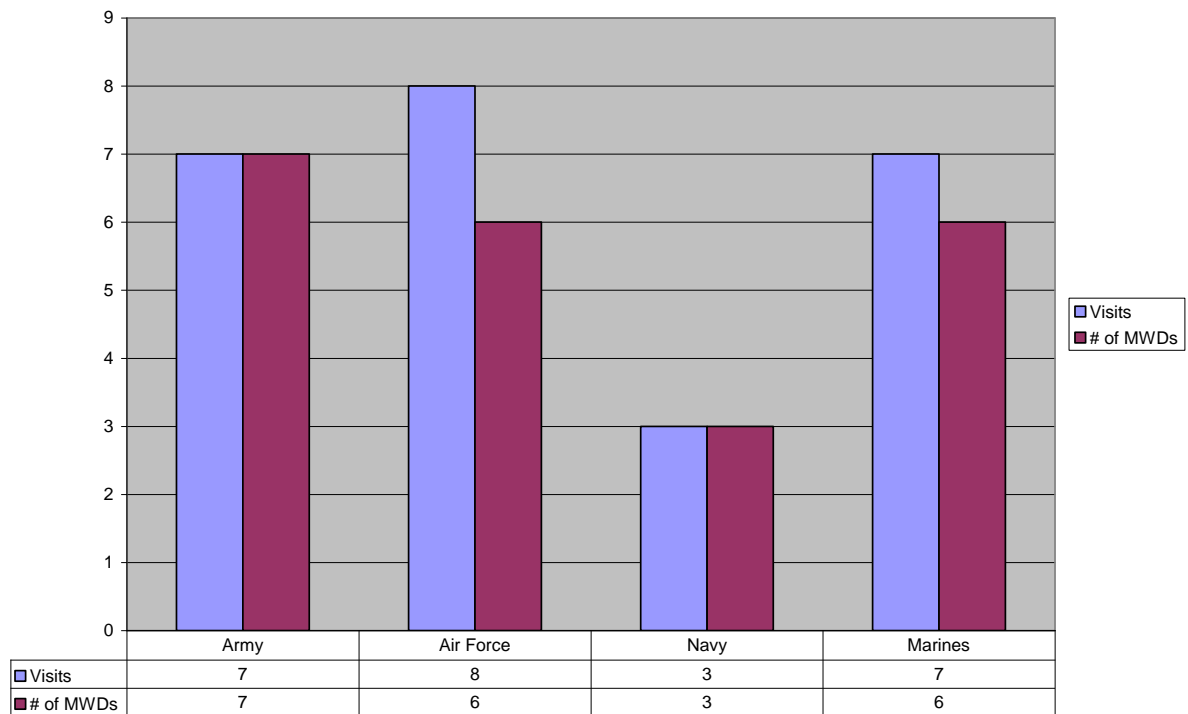
Ophthalmology by Gender



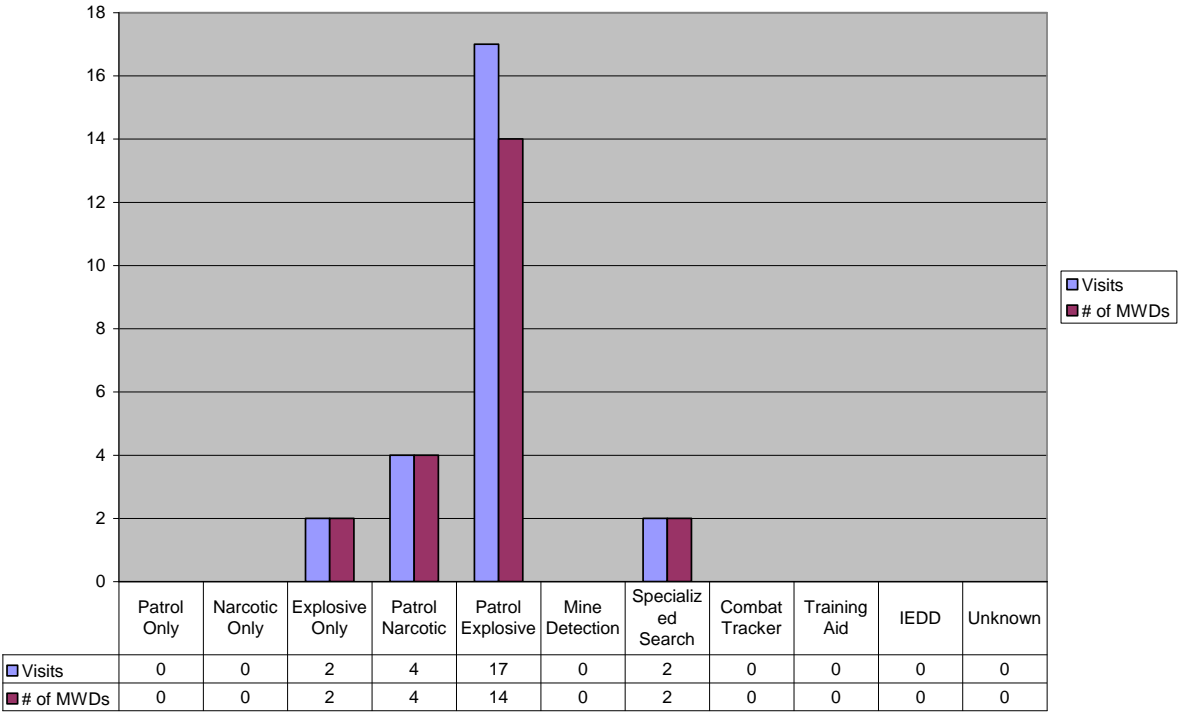
Ophthalmology by Breed



Ophthalmology by Branch of Service

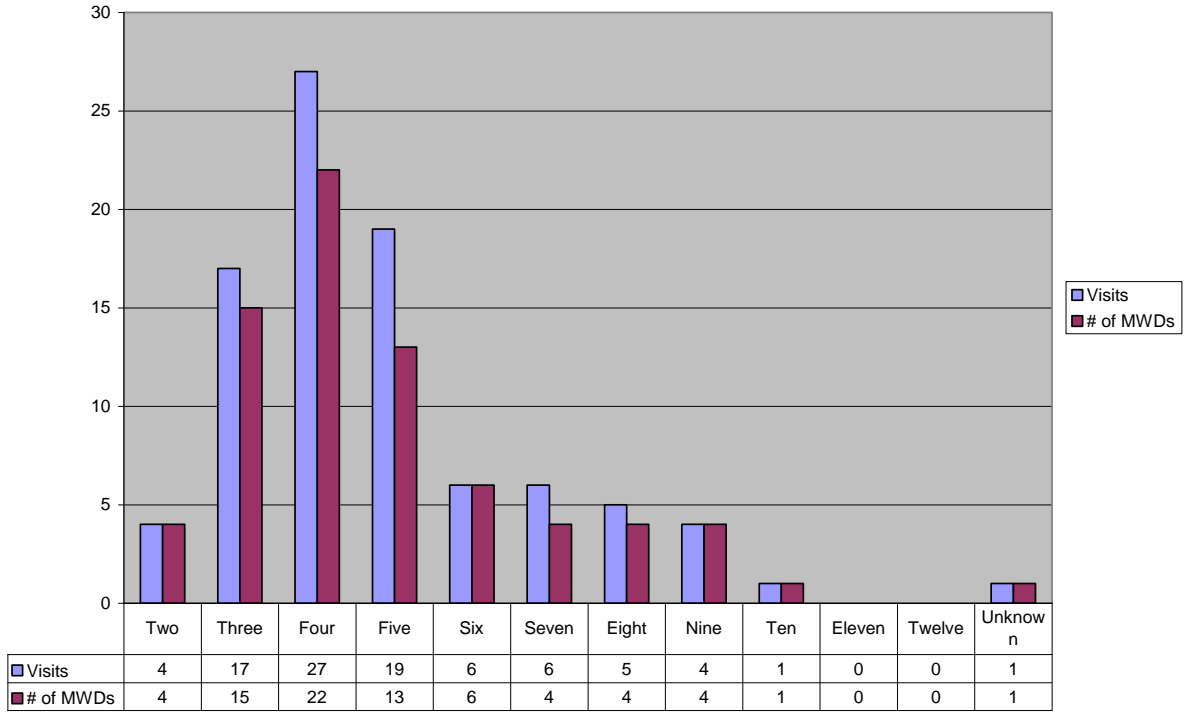


Ophthalmology by Certification

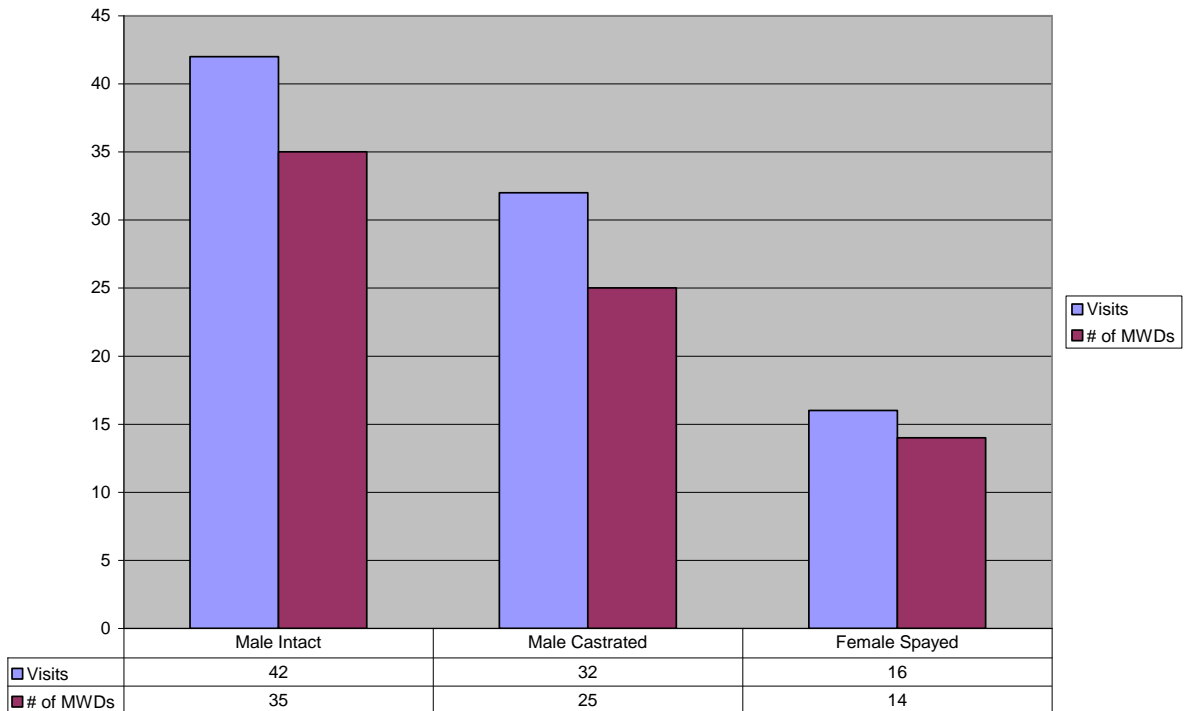


Otic

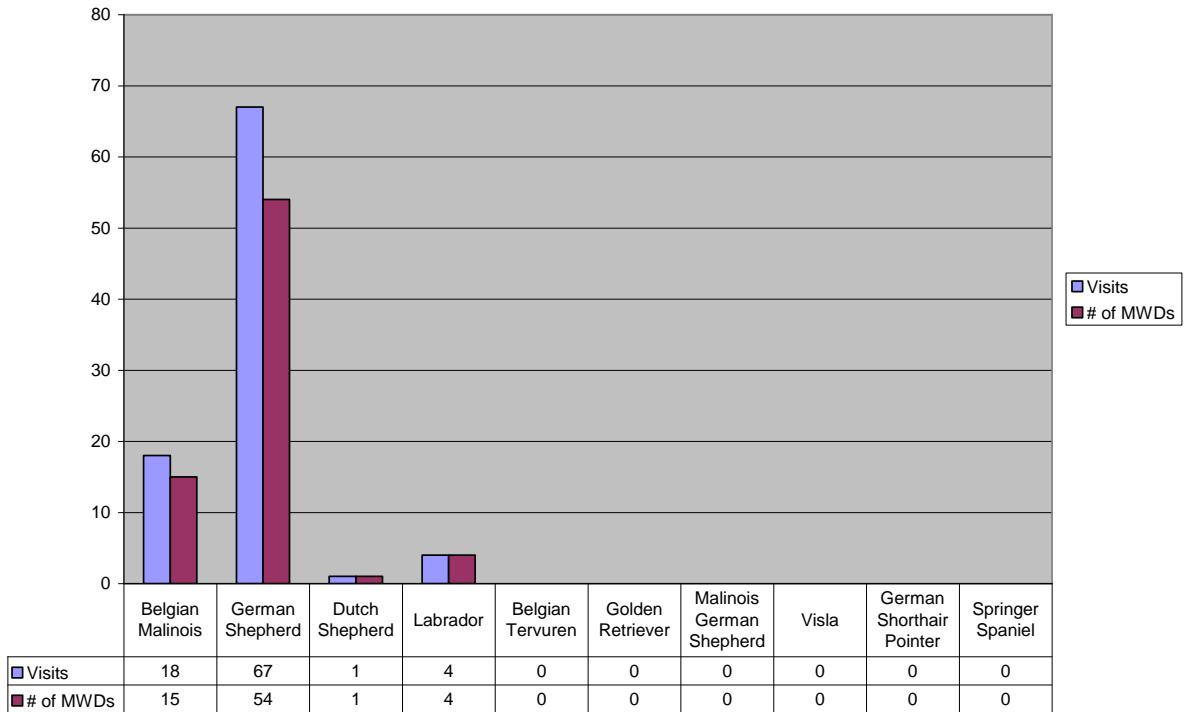
Otic by Age in Years



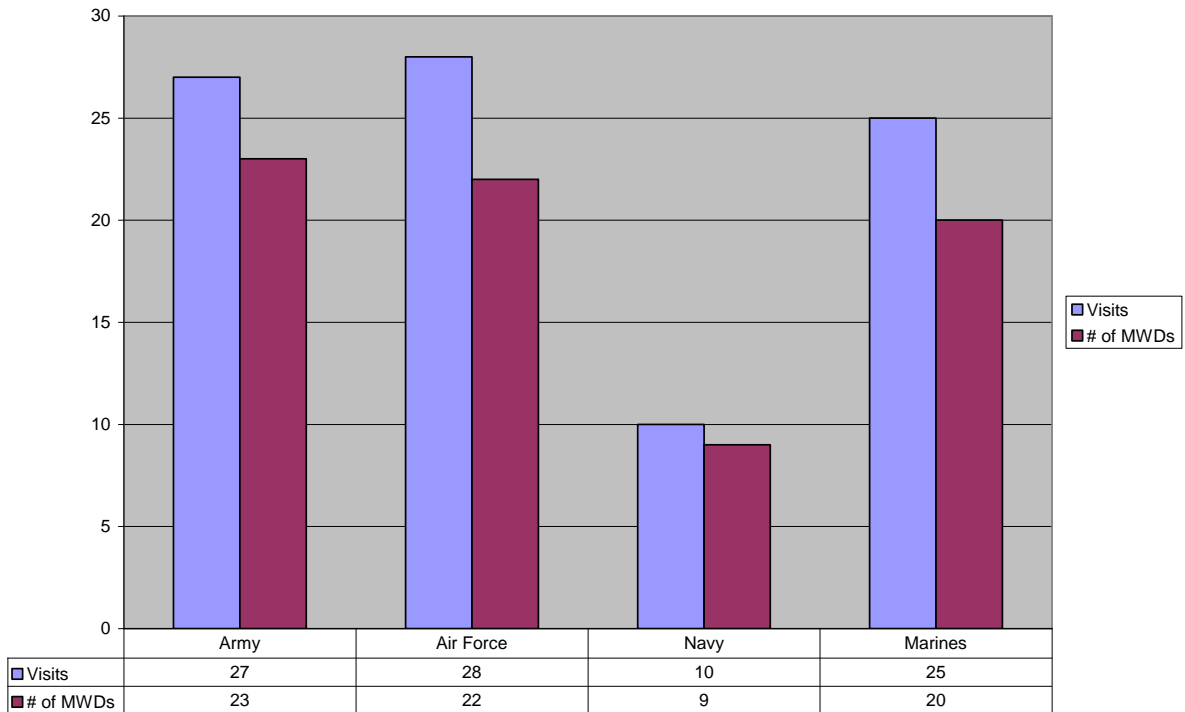
Otic by Gender



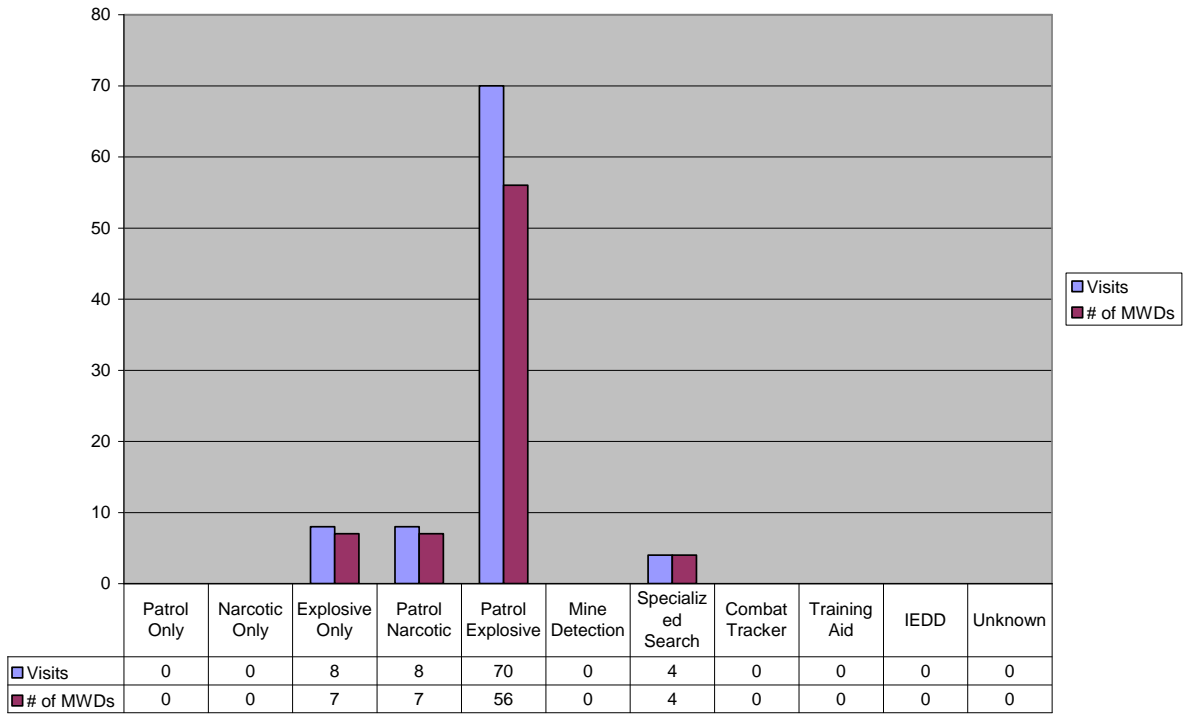
Otic by Breed



Otic by Branch of Service

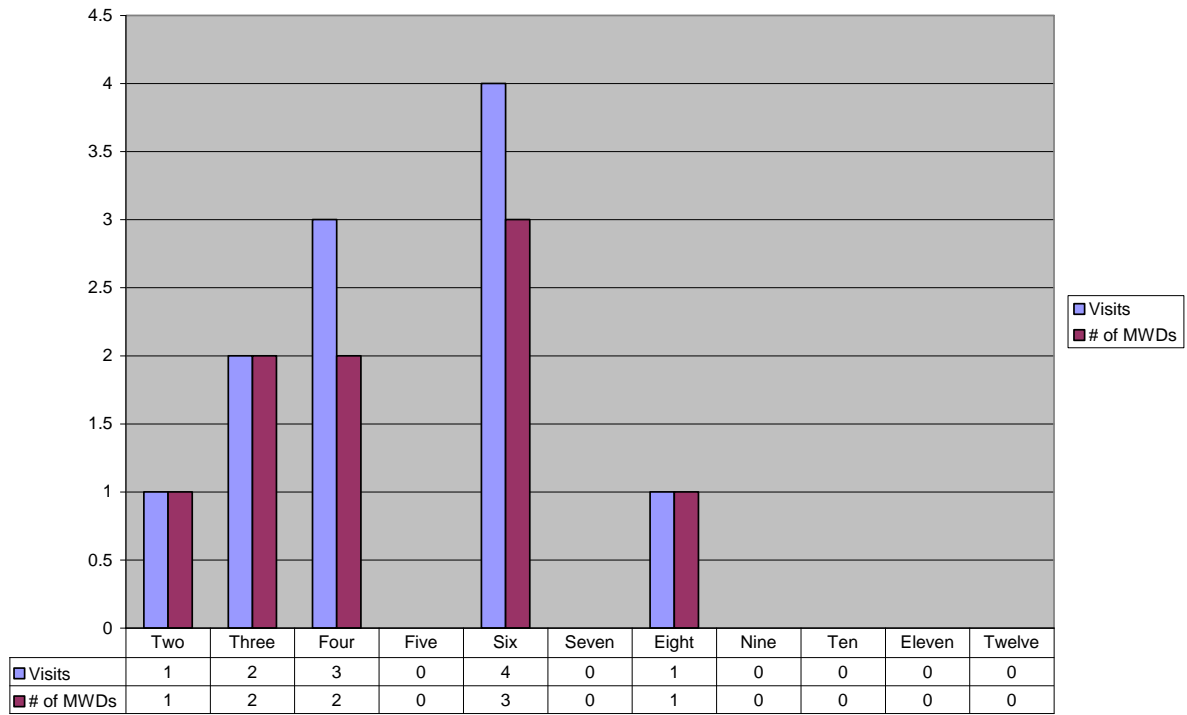


Otic by Certification

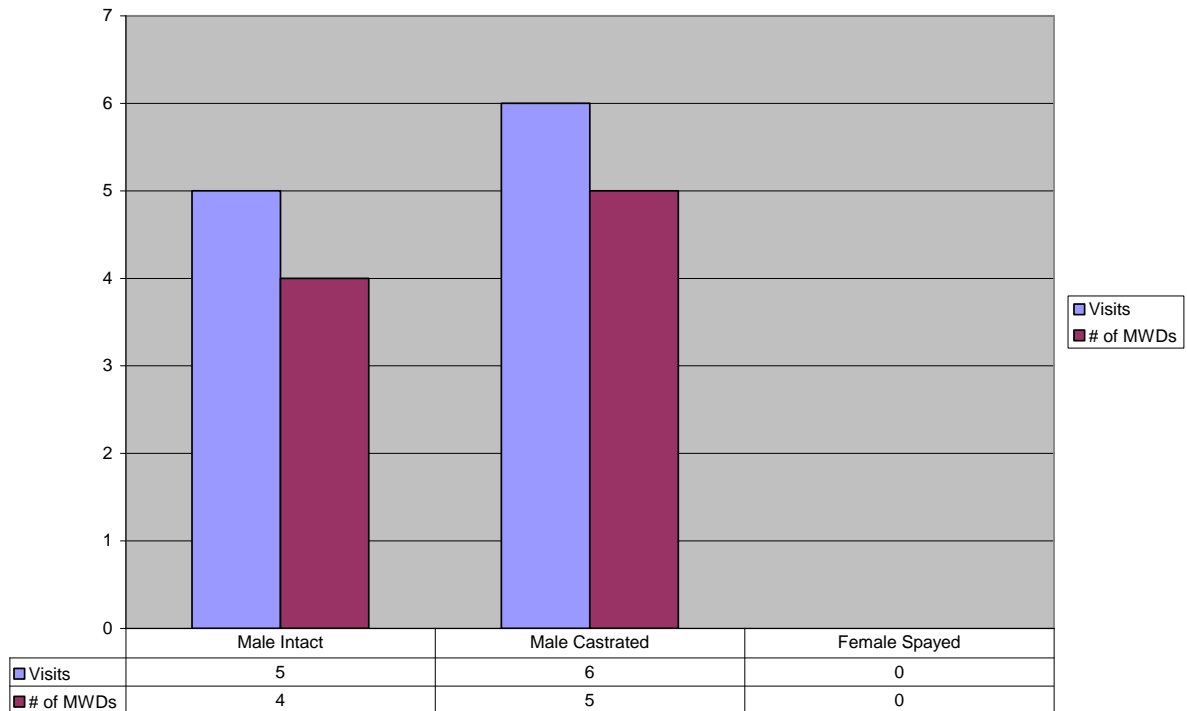


Respiratory

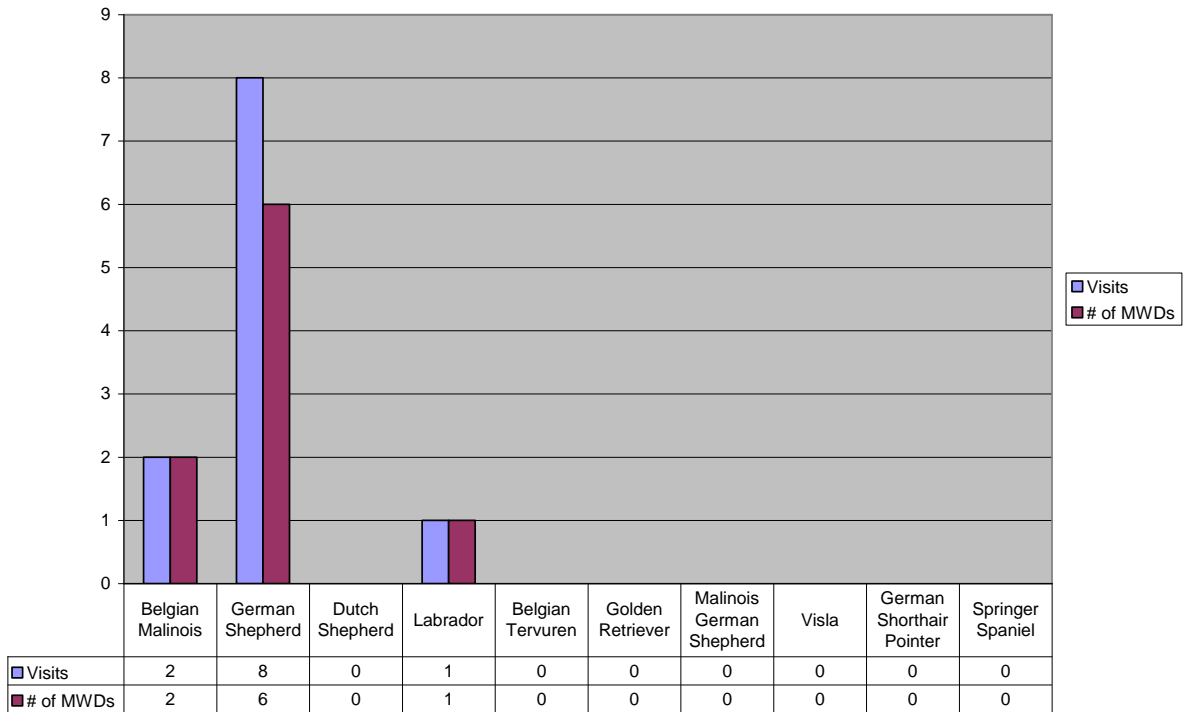
Respiratory by Age in Years



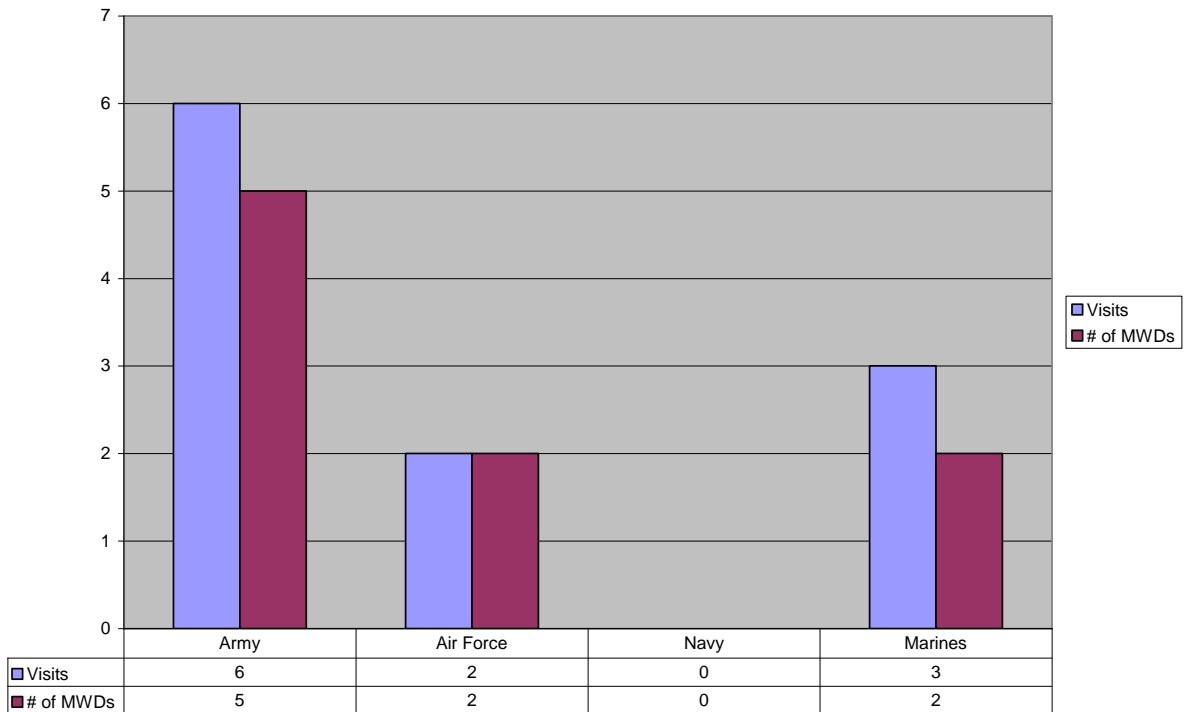
Respiratory by Gender



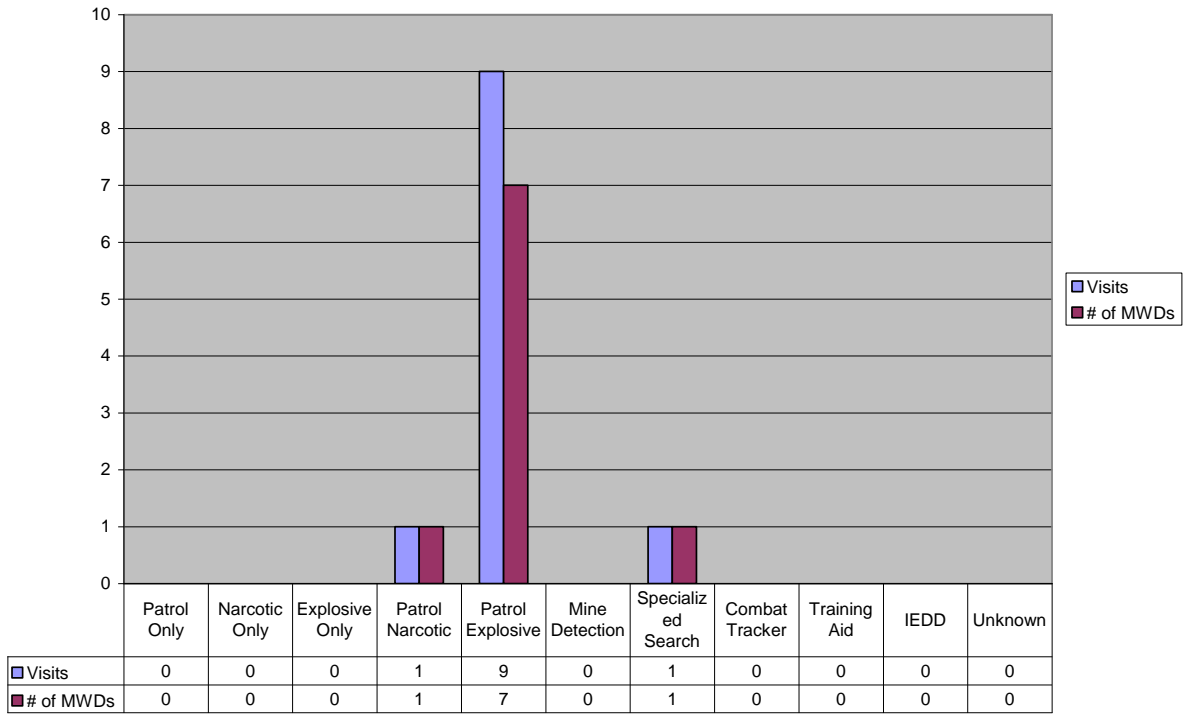
Respiratory by Breed



Respiratory by Branch of Service

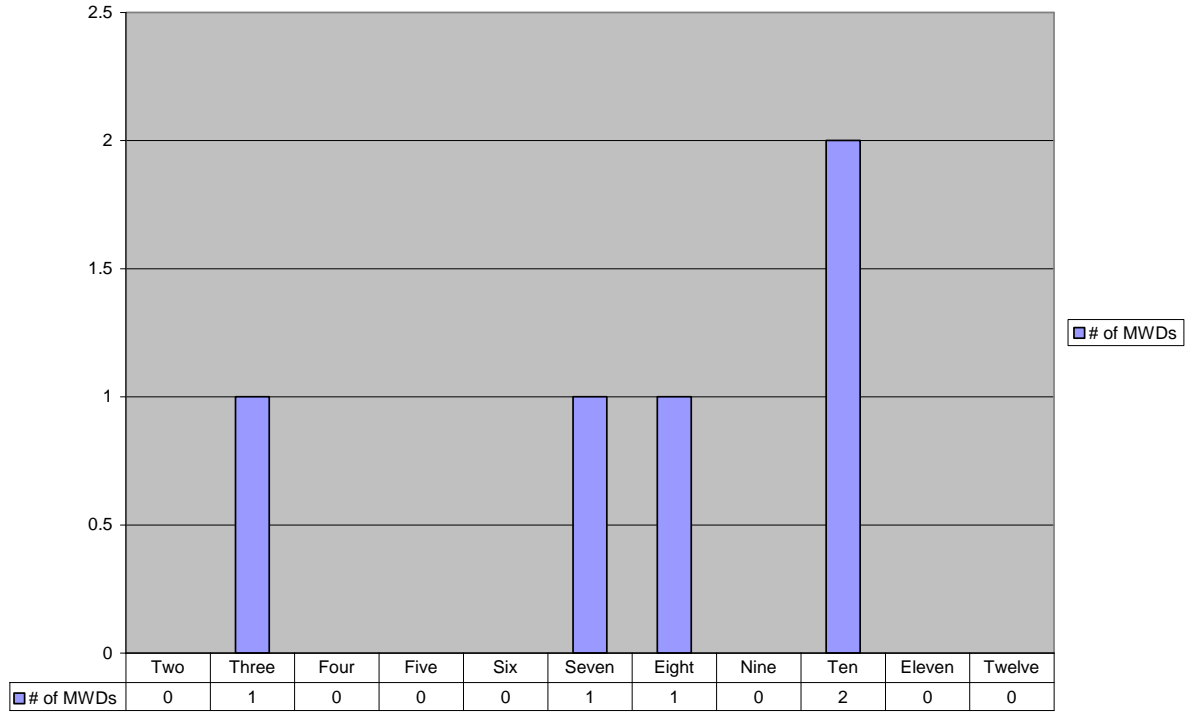


Respiratory by Certification

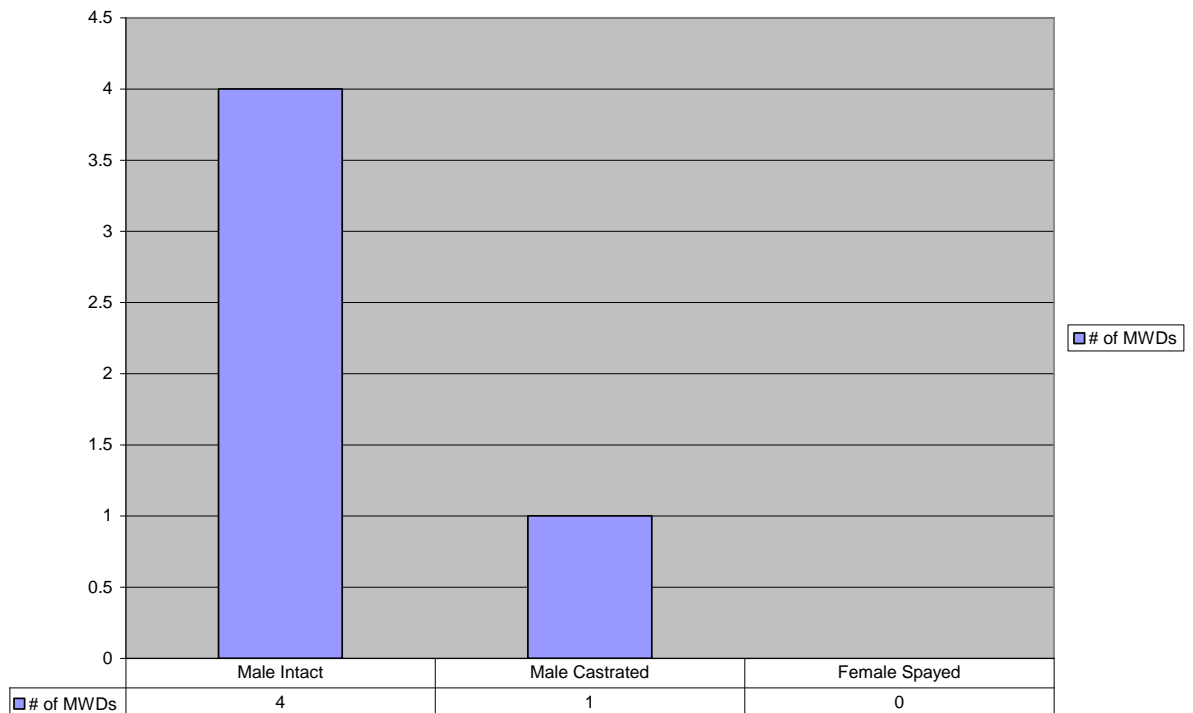


Sent Back

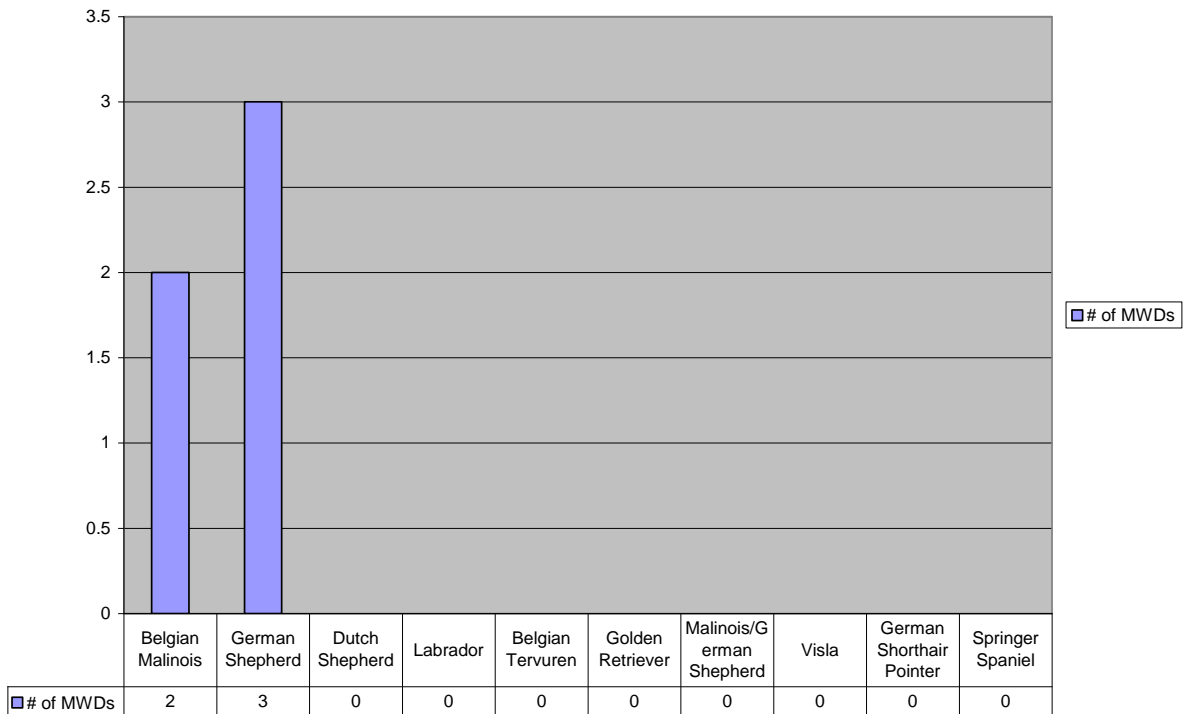
Sent Back by Age in Years



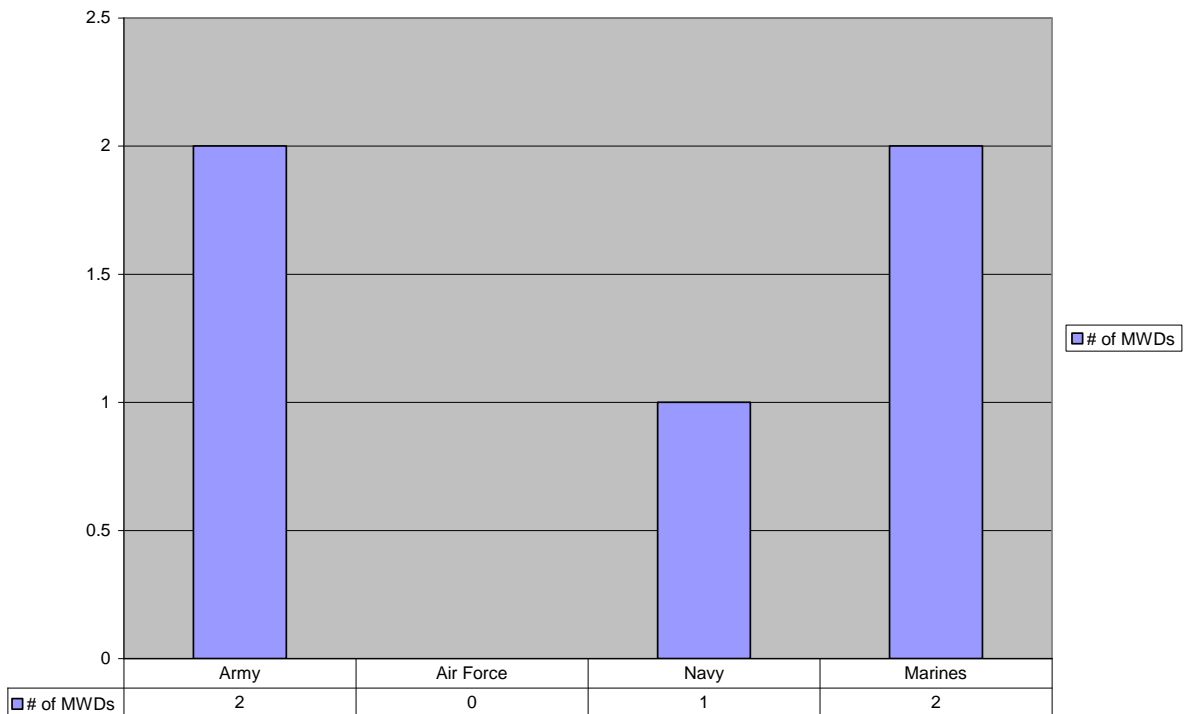
Sent Back by Gender



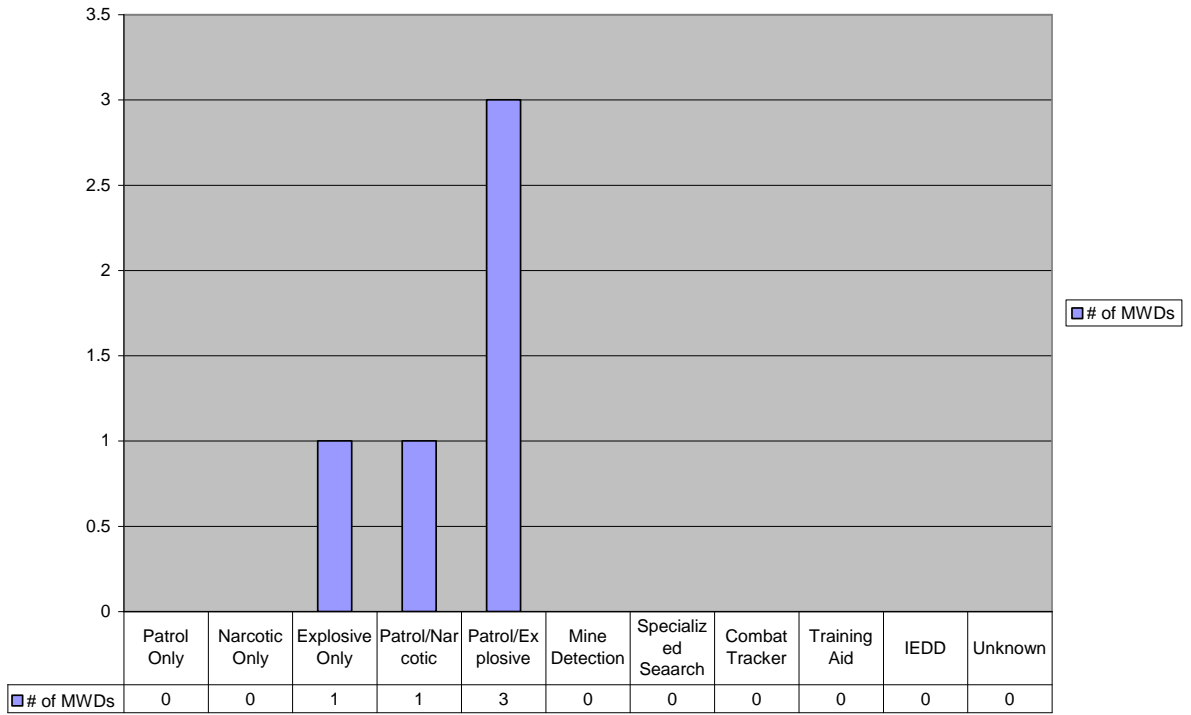
Sent Back by Breed



Sent Back by Branch of Service

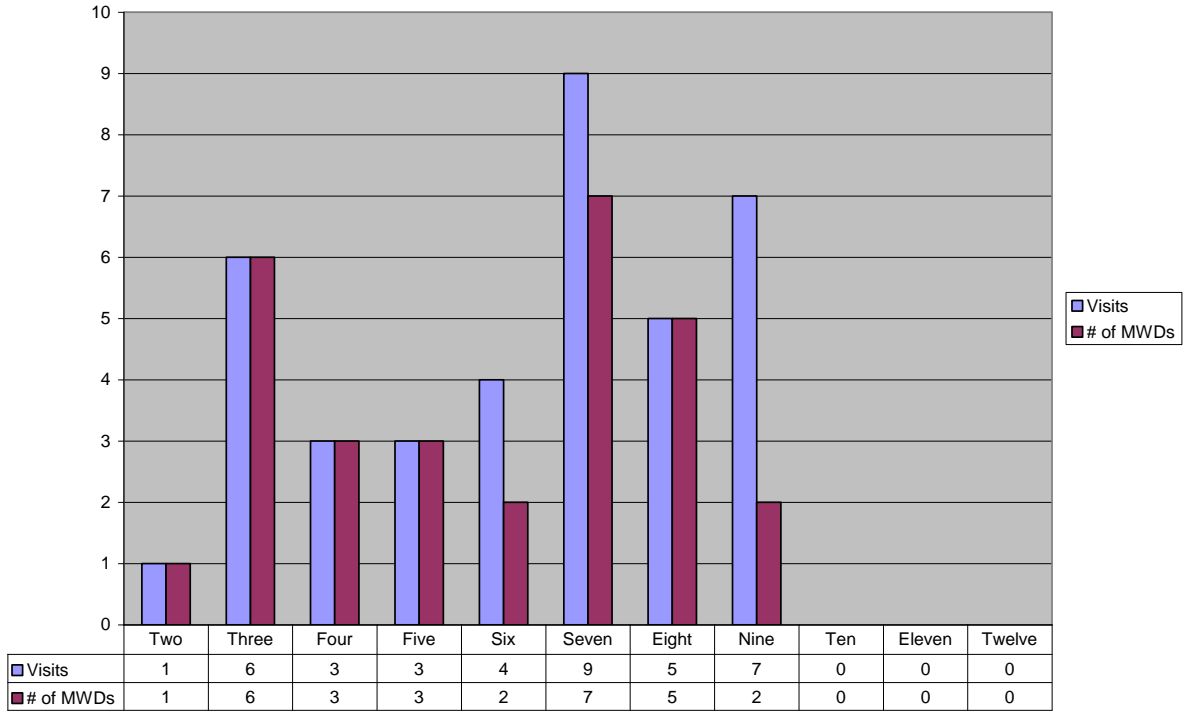


Sent Back by Certification

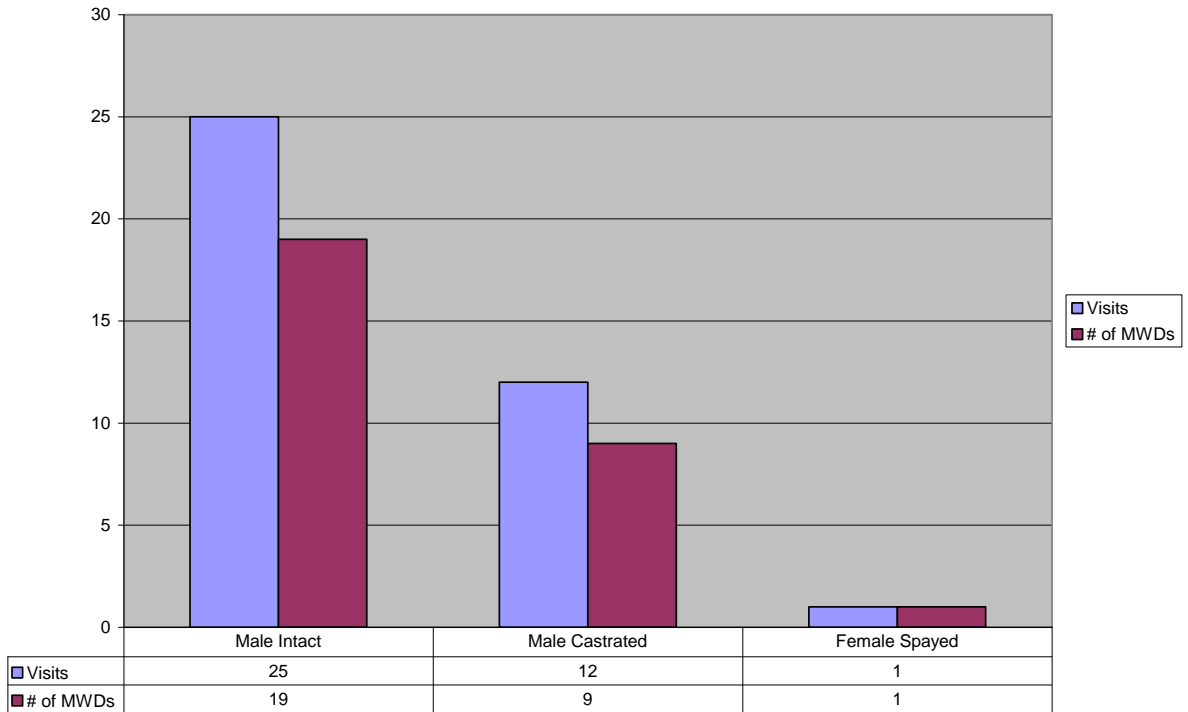


Spinal-Neuro

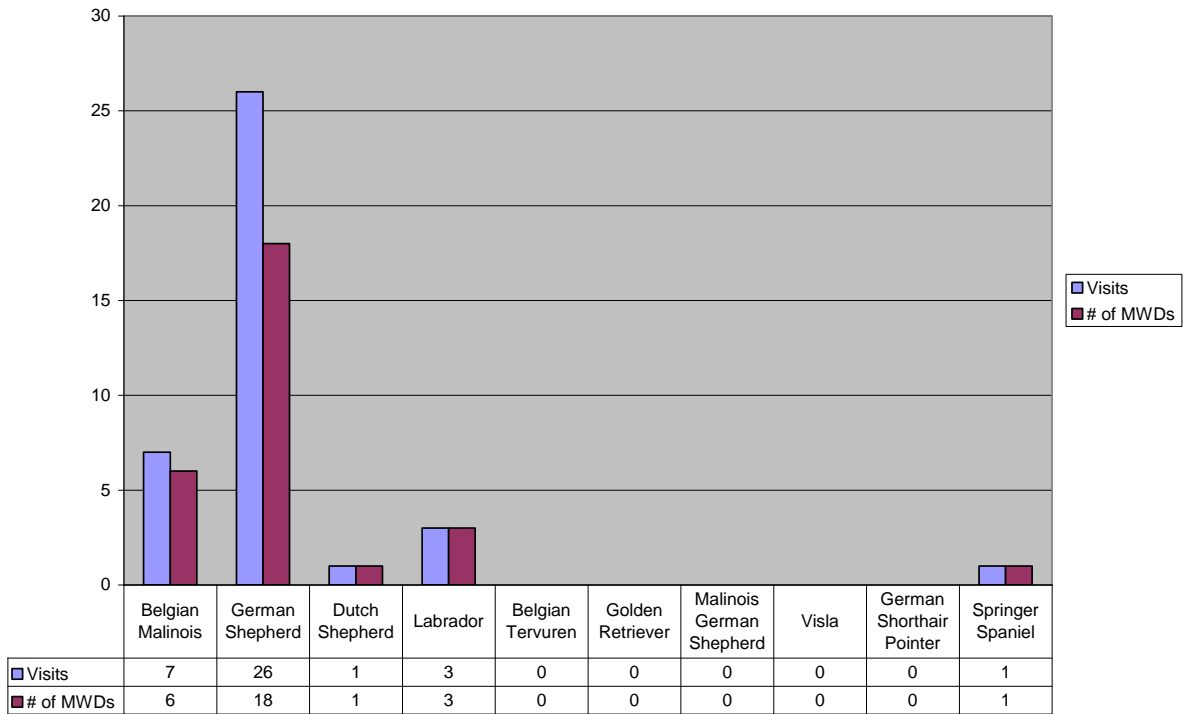
Spinal-Neuro by Age



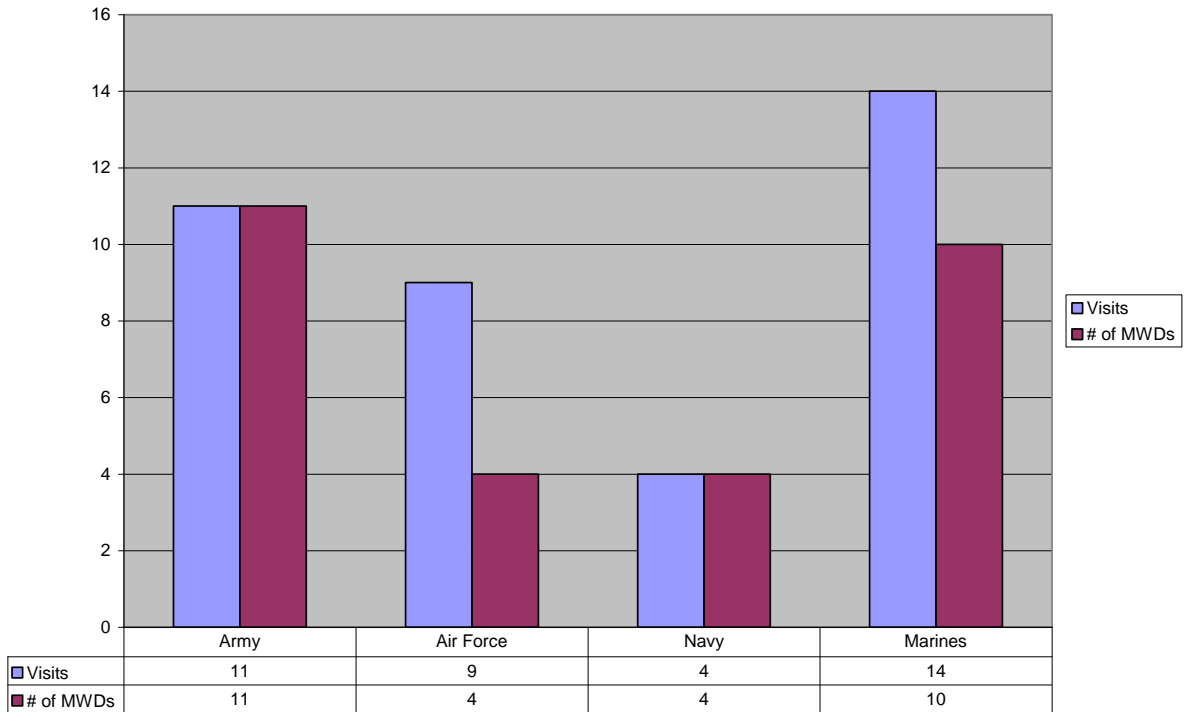
Spinal-Neuro by Gender



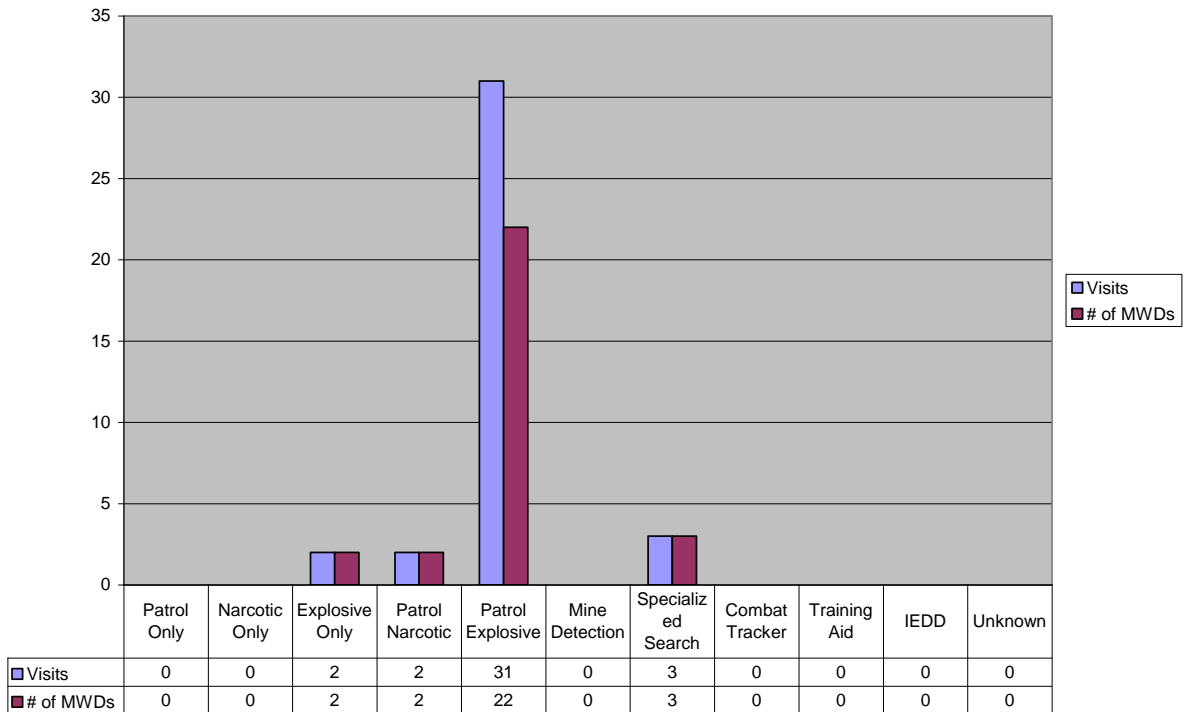
Spinal-Neuro by Breed



Spinal-Neuro by Branch of Service

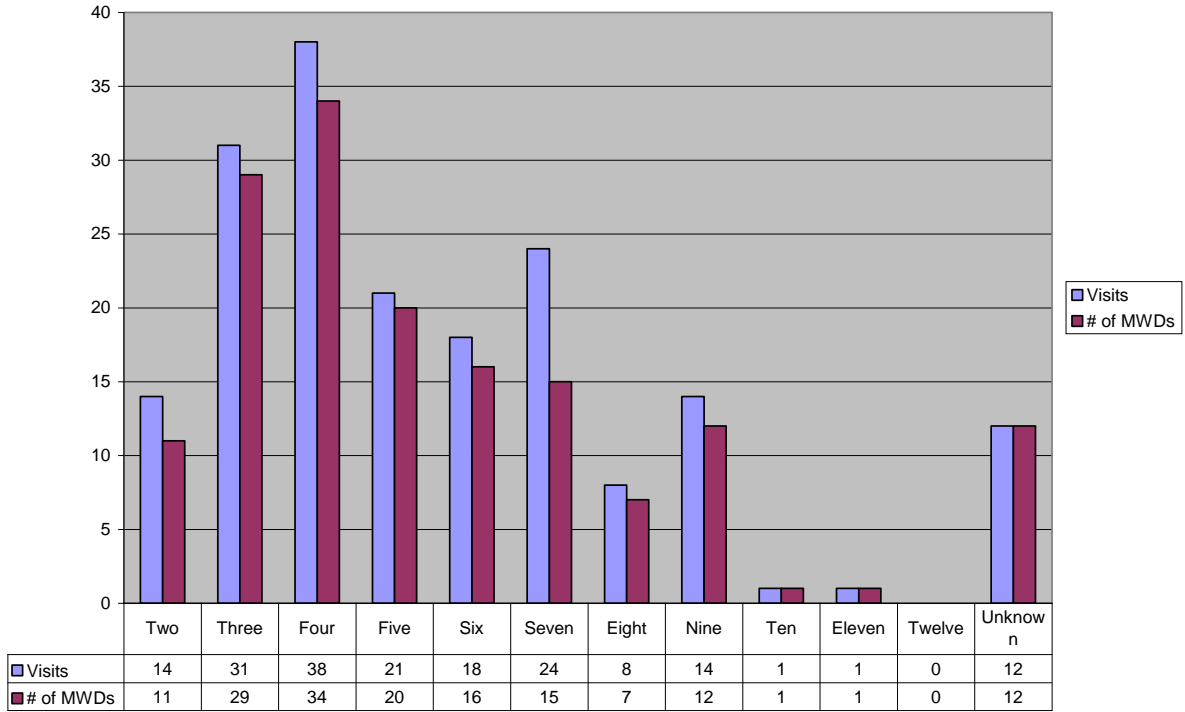


Spinal-Neuro by Certification

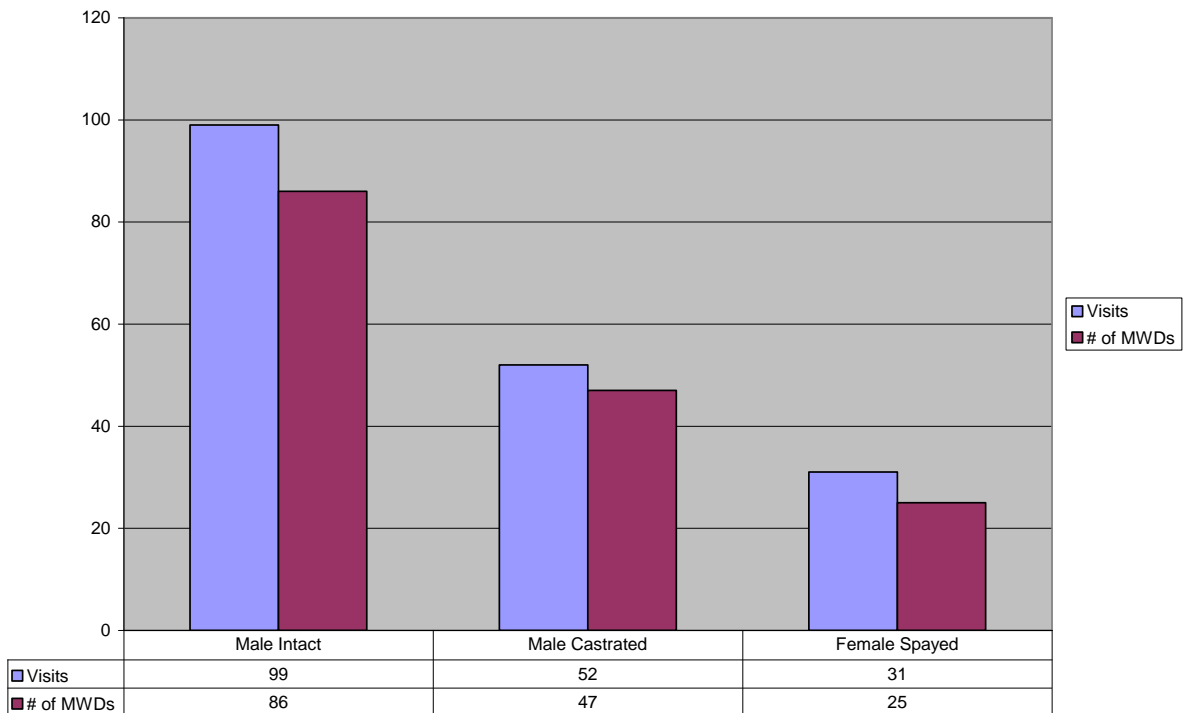


Trauma

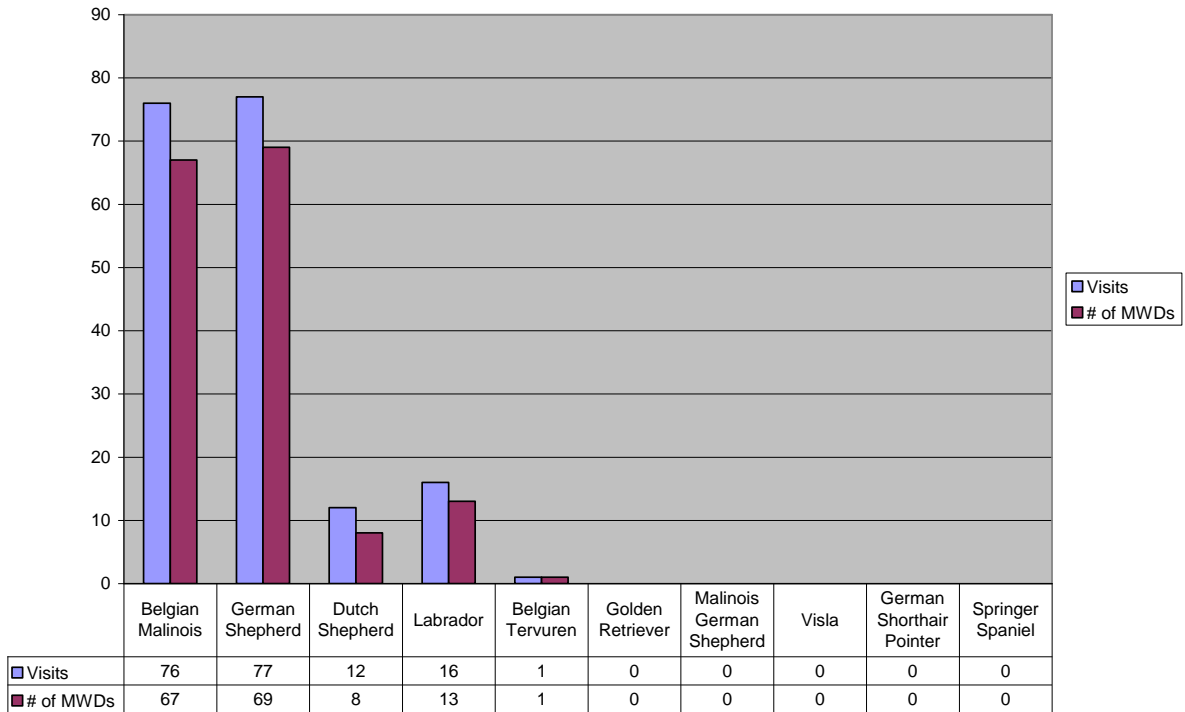
Trauma by Age



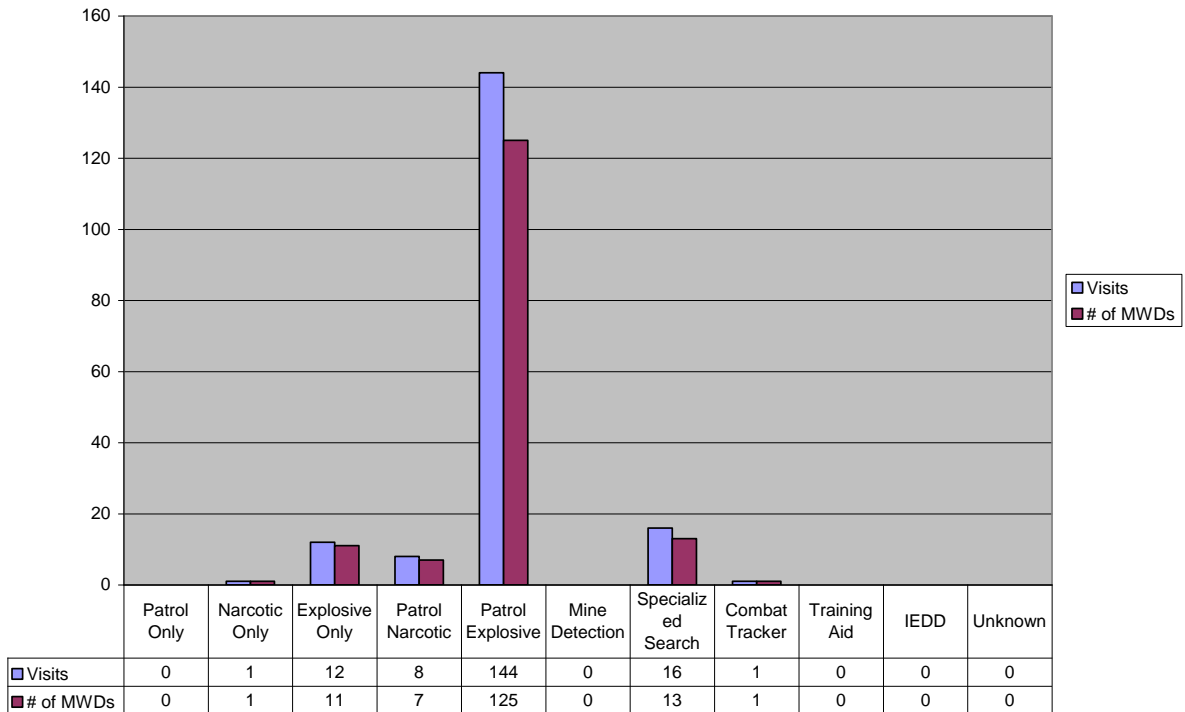
Trauma by Gender



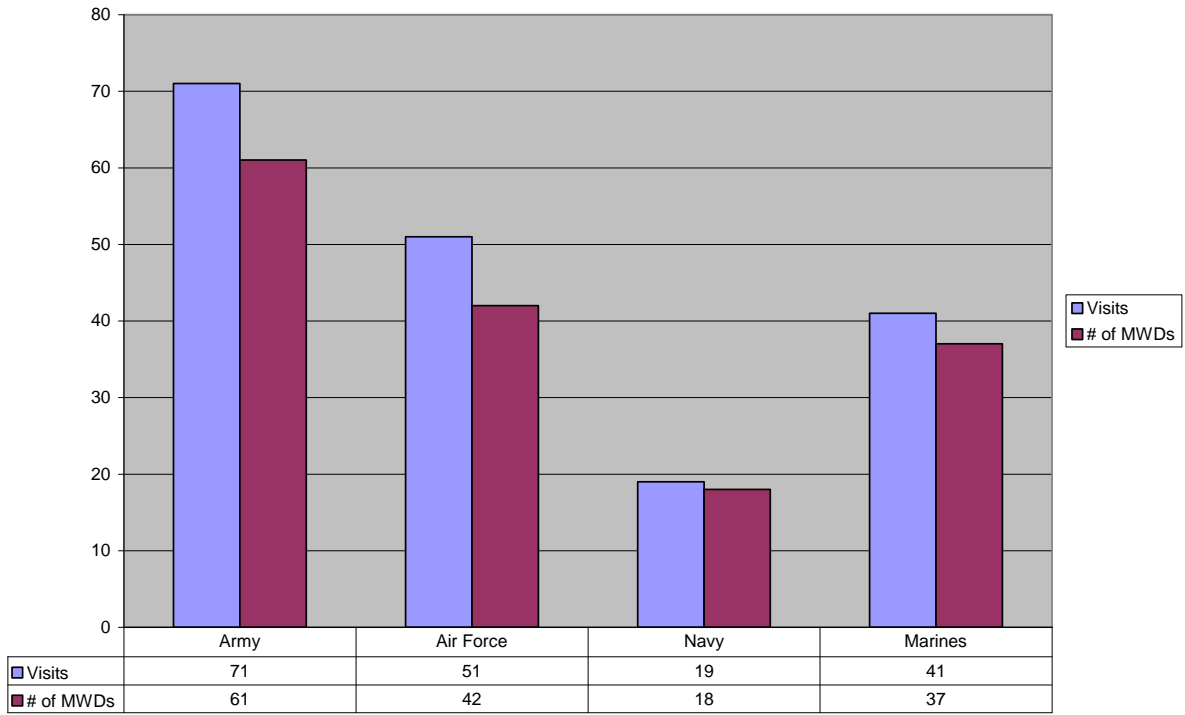
Trauma by Breed



Trauma by Certification

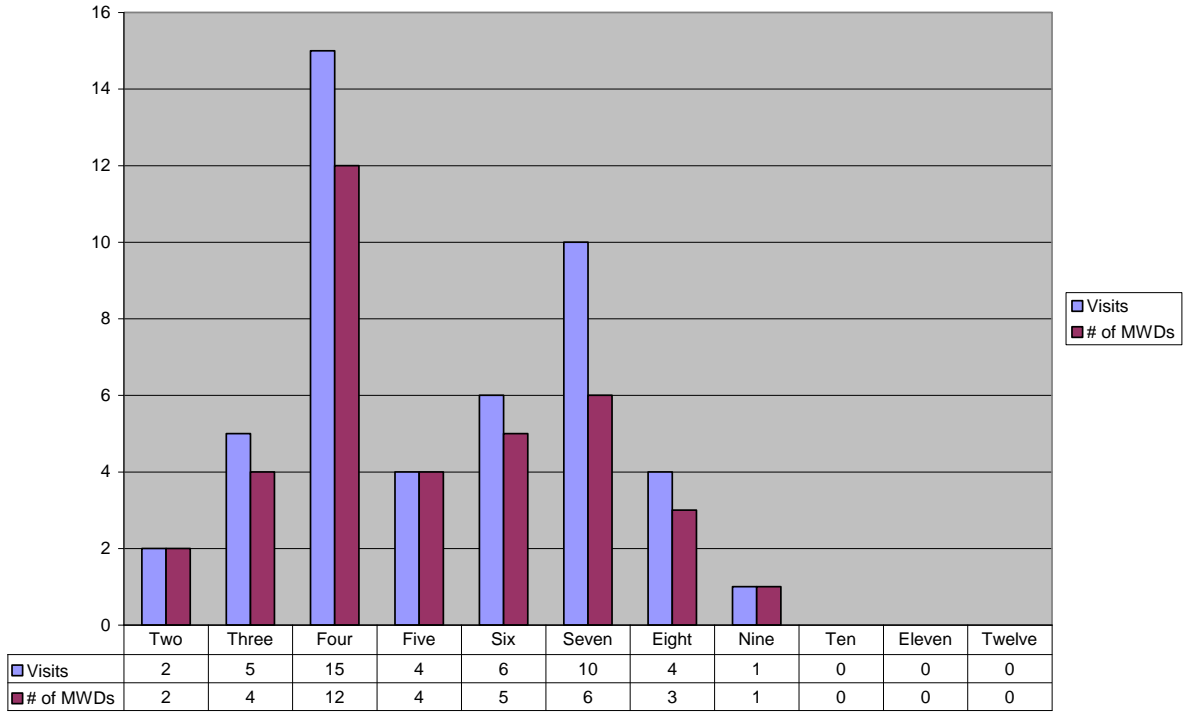


Trauma by Branch of Service

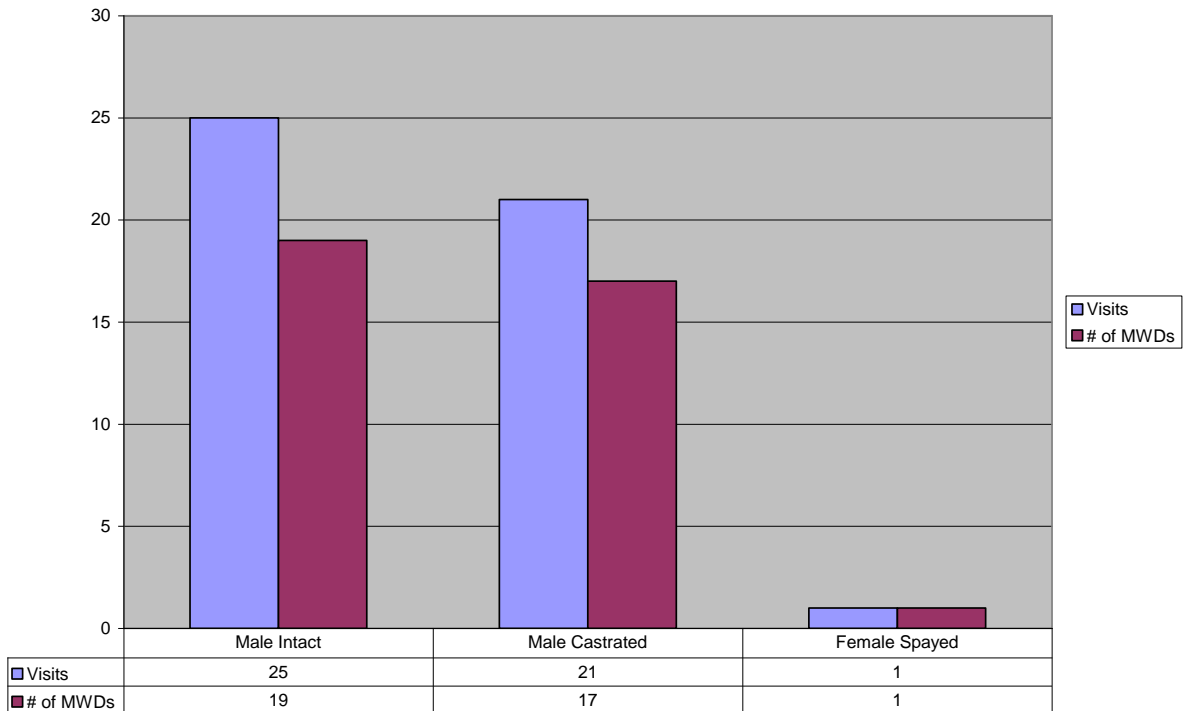


Urogenital

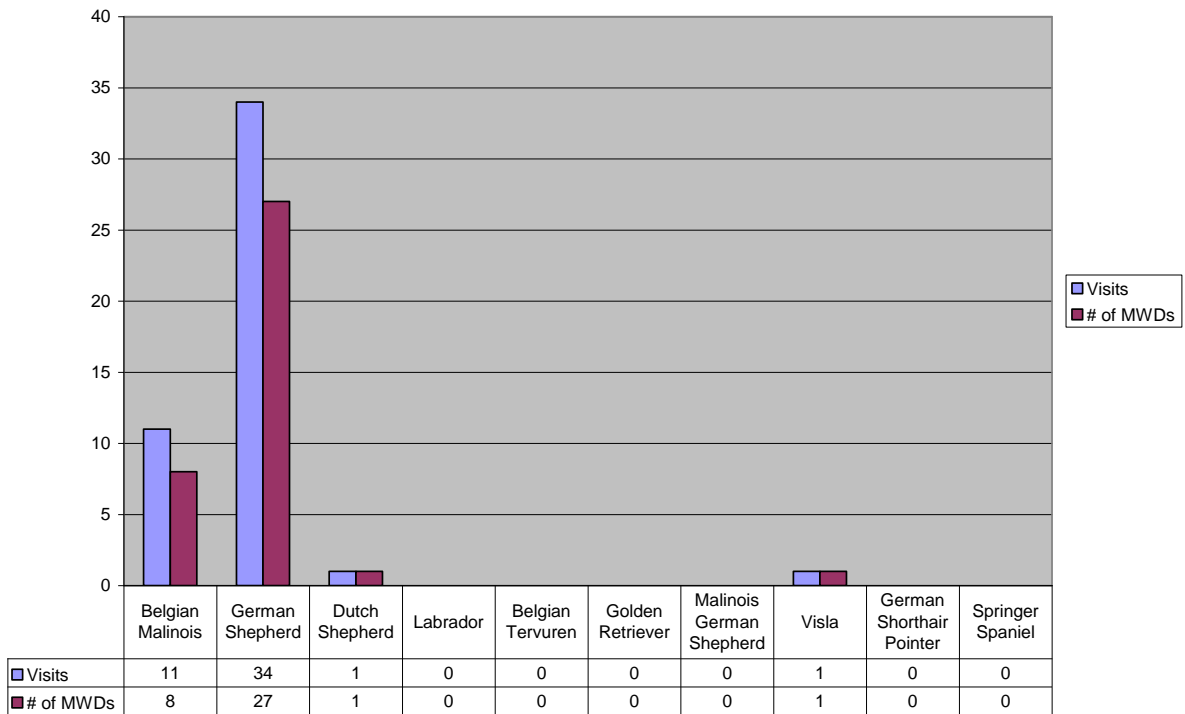
Urogenital by Age



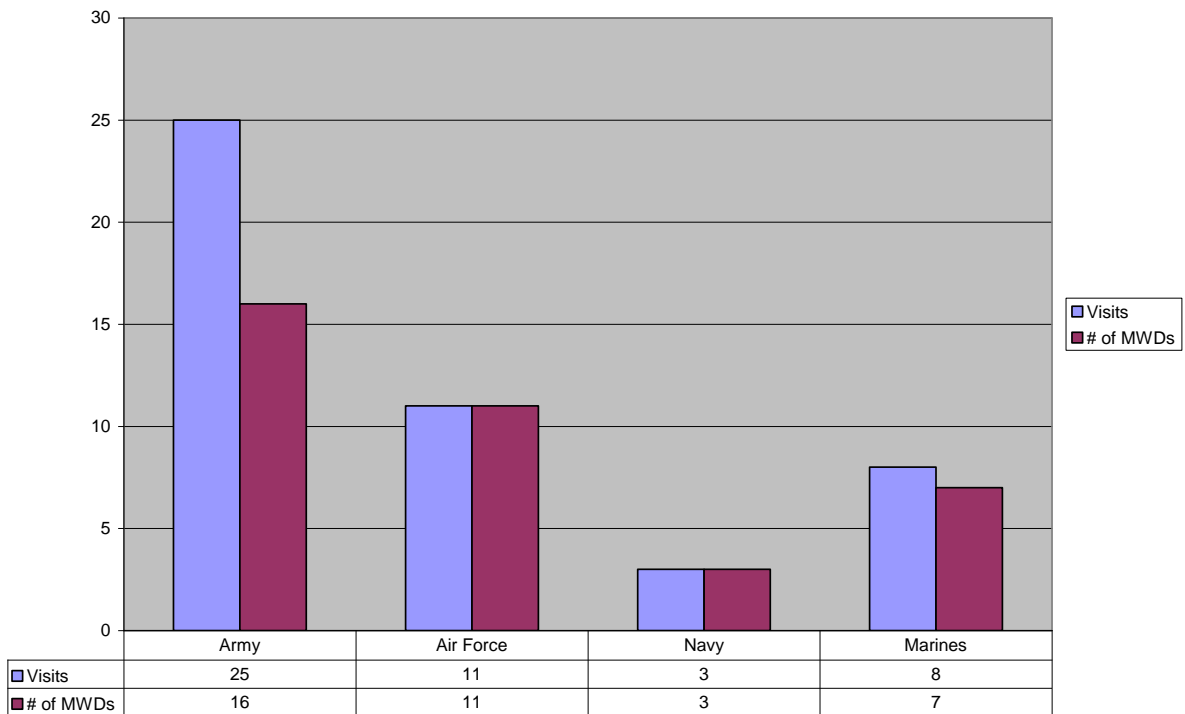
Urogenital by Gender



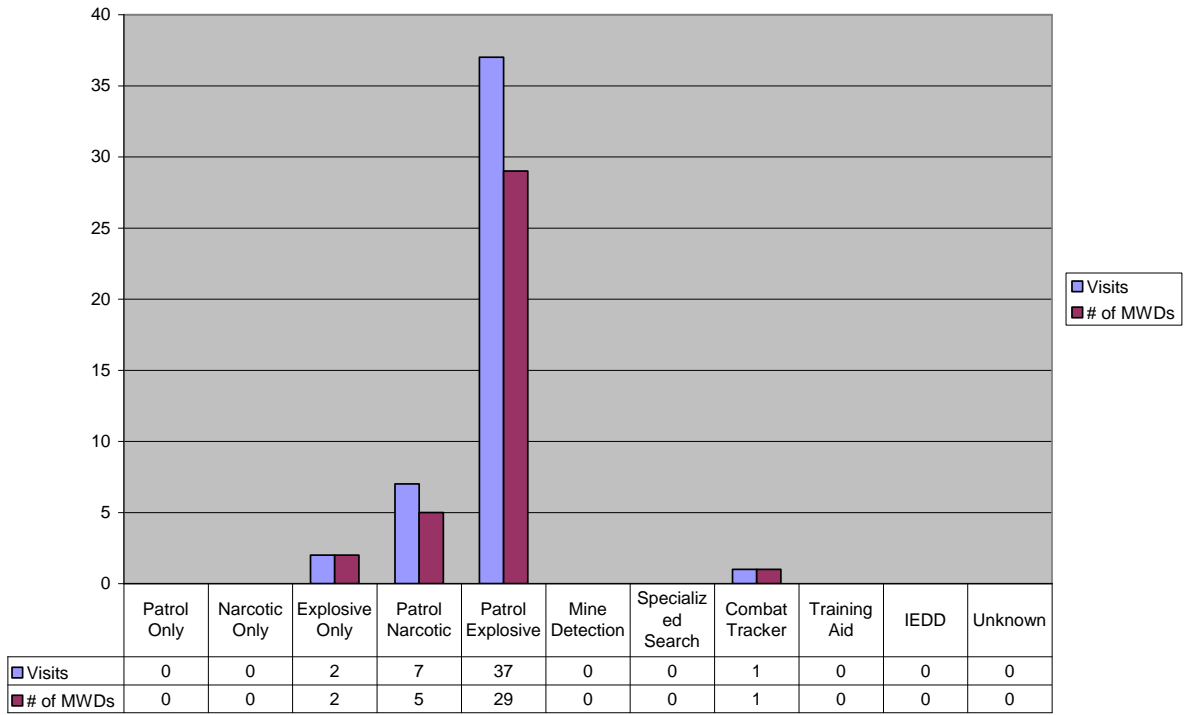
Urogenital by Breed



Urogenital by Branch of Service



Urogenital by Certification



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VITA

Wendy E.H. Mey, was born in Oak Park, Illinois, on [REDACTED]. After completing her studies at Mound-Westonka High School, Mound, Minnesota, in 1976, she attended college at Normandale Community College and North Hennepin Community College. She received her Associate of Arts degree in 1980. In 1992 she received her Bachelor of Elective Studies degree with a double major in Biology and Music from St. Cloud State University, Minnesota. In 1998 she received her Doctorate in Veterinary Medicine from the University of Minnesota College of Veterinary Medicine. In the fall of 1998 Dr. Mey accepted a commission into the United States Army Veterinary Corps and went on active military service in January 1999. She has been on active duty since that time. Her postings have included Grand Forks AFB, North Dakota; Ft. Polk, Louisiana; RAF Feltwell, Norfolk, England; and the Department of Defense Military Working Dog Veterinary Service, Lackland AFB, Texas.

This thesis was typed by Wendy E.H. Mey.