Hospitalizations Among Members of the Active Component, U.S. Armed Forces, 2011

his report documents the frequencies, rates, trends, and distributions of hospitalizations of active component members of the U.S. Armed Forces during calendar year 2011. Summaries are based on standardized records of hospitalizations at U.S. military and non-military (reimbursed care) medical facilities worldwide. For this report, primary (first-listed) discharge diagnoses are considered indicative of the primary reasons for hospitalizations; summaries are based on the first three digits of ICD-9-CM codes used to report primary discharge diagnoses. Hospitalizations not routinely documented with standardized, automated records (e.g., during deployments, field training exercises, shipboard) are not centrally available for health surveillance purposes and thus are not included in this report.

Frequencies, rates, and trends:

In 2011 there were 99,412 reports of hospitalizations of active component

members of the U.S. Army, Navy, Air Force, Marine Corps, and Coast Guard; 27 percent of the hospitalizations were in non-military facilities (Table 1, Figure 1). The hospitalization rate (all causes) was 68.2 per 1,000 service members per year. The annual hospitalization rate (all causes) was higher during 2011 compared to the previous years (overall hospitalization rate minimum: 54.9 per 1,000 person-years [p-yrs], 2006; maximum: 68.2 per 1,000 p-yrs, 2011) (Figure 1).

Hospitalizations, by illness and injury categories:

As in prior years, in 2011 three diagnostic categories accounted for more than one-half (54.5%) of all hospitalizations of active component members: mental disorders (21.9%), pregnancy and deliveryrelated conditions (19.8%), and injuries and poisonings (12.8%) (Table 1). In contrast to 2007 and 2009, in 2011 there were more hospitalizations for mental disorders than for any other major category of illnesses or injuries (per the ICD-9-CM).

From 2007 to 2011, numbers of hospitalizations increased in 15 and decreased in two major categories of illnesses and injuries. The largest percentage increases between 2007 and 2011 were for "other" or V-coded hospitalizations (primarily orthopedic aftercare and rehabilitation following a previous illness or injury) (hosp diff, 2007-2011: +1,592; +66.3%) and for mental disorders (hosp diff, 2007-2011: +7,623; +54.0%). The only percentage decreases during the same period were for the skin and subcutaneous tissue (hosp diff, 2007-2011: -171; -7.3%) and injury and poisoning (hosp diff, 2007-2011: -354; -2.7%) categories (Table 1).

Hospitalizations, by gender:

In 2011, the hospitalization rate (all causes) was more than two times higher among females than males (hospitalization rate, overall: females: 162.0 per 1,000 p-yrs; males: 52.3 per 1,000 p-yrs); however, pregnancy and delivery accounted for 57.8

TABLE 1. Hospitalizations, ICD-9-CM major diagnostic categories, active component, U.S. Armed Forces, 2007, 2009, and 2011

	2007				2009		2011		
Major diagnostic category (ICD-9-CM)	No.	Rate ^a	Rank	No.	Rate ^a	Rank	No.	Rate ^a	Rank
Mental disorders (290-319)	14,112	10.1	(2)	15,339	10.4	(2)	21,735	14.9	(1)
Pregnancy and delivery (630-679, relevant V-codes) ^b	18,326	13.1 <i>(91.4)</i>	(1)	16,009	10.9 <i>(76.4)</i>	(1)	19,722	13.5 <i>(93.6)</i>	(2)
Injury and poisoning (800-999)	13,095	9.4	(3)	10,063	6.8	(3)	12,741	8.7	(3)
Digestive system (520-579)	7,520	5.4	(5)	7,001	4.8	(4)	9,049	6.2	(4)
Musculoskeletal system/connective tissue (710-739)	7,643	5.5	(4)	6,721	4.6	(5)	7,885	5.4	(5)
Signs, symptoms, ill-defined conditions (780-799)	4,410	3.1	(6)	4,033	2.7	(6)	4,916	3.4	(6)
Other (V01-V82, except pregnancy-related)	2,402	1.7	(10)	2,387	1.6	(10)	3,994	2.7	(7)
Respiratory system (460-519)	2,966	2.1	(7)	3,268	2.2	(7)	3,090	2.1	(8)
Circulatory system (390-459)	2,645	1.9	(9)	2,483	1.7	(8)	3,027	2.1	(9)
Genitourinary system (580-629)	2,831	2.0	(8)	2,483	1.7	(9)	3,002	2.1	(10)
Nervous system (320-389)	1,782	1.3	(13)	1,755	1.2	(13)	2,429	1.7	(11)
Neoplasms (140-239)	2,024	1.4	(12)	1,821	1.2	(12)	2,238	1.5	(12)
Skin and subcutaneous tissue (680-709)	2,353	1.7	(11)	1,984	1.4	(11)	2,182	1.5	(13)
Infectious and parasitic diseases (001-139)	1,342	1.0	(14)	1,119	0.8	(14)	1,546	1.1	(14)
Endocrine, nutrition, immunity (240-279)	830	0.6	(15)	804	0.5	(15)	1,005	0.7	(15)
Congenital anomalies (740-759)	337	0.2	(16)	309	0.2	(17)	469	0.3	(16)
Hematologic disorders (280-289)	318	0.2	(17)	326	0.2	(16)	382	0.3	(17)
Total	84,936	60.7		77,905	53.0		99,412	68.2	

^aRates are expressed as hospitalizations per 1,000 p-yrs

^bRate of pregnancy and delivery-related hospitalizations among females only (in parentheses)

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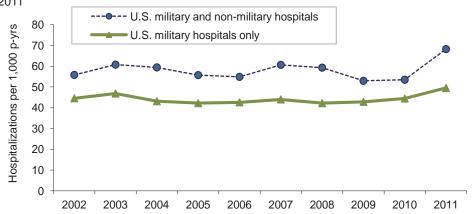
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FIGURE 1. Rate of hospitalization by year, active component, U.S. Armed Forces, 2002-2011



percent of all hospitalizations of females. The rate of hospitalizations for conditions not related to pregnancy and delivery was almost one-third (30.6%) higher among females (68.4 per 1,000 per year) than males (data not shown).

Hospitalization rates were higher among males than females for injuries and poisonings (male:female [m:f], rate ratio [RR]: 1.45; rate difference [RD]: 2.8 per 1,000 p-yrs), musculoskeletal system/connective tissue disorders (m:f, RR: 1.13; RD: 0.6 per 1,000 p-yrs), and skin and subcutaneous tissue disorders (m:f, RR: 1.64; RD: 0.6 per 1,000 p-yrs). Hospitalization rates were similar among males and females for circulatory disorders (m:f, RR: 1.09; RD: 0.2 per 1,000 p-yrs) and respiratory diseases (m:f, RR: 1.03; RD: 0.1 per 1,000 p-yrs). Hospitalization rates were higher among females than males for the other 12 major disease-specific categories. Of these 12 categories, the largest absolute differences in hospitalization rates between females and males were for genitourinary disorders (RD: 6.2 per 1,000 p-yrs), mental disorders (RD: 4.3 per 1,000 p-yrs), and neoplasms (RD: 3.4 per 1,000 p-yrs) (data not shown).

Relationships between age and hospitalization rates significantly varied across illness- and injury-specific categories (Figure 2). For example, among both males and females, hospitalization rates sharply increased with age for neoplasms, circulatory, genitourinary, and musculoskeletal system/connective tissue disorders; rates decreased with age for mental disorders; and rates were generally stable across age groups for infectious and parasitic diseases,

digestive disorders, and injuries and poisonings (Figure 2).

Most frequent diagnoses:

In 2011, seven diagnoses (at the 3-digit level of the ICD-9-CM) each accounted for more than 1,400 hospitalizations among males: adjustment reactions (n=5,503), episodic mood disorders (n=4,142), intervertebral disc disorders (n=2,305), alcohol dependence syndrome (2,150), acute appendicitis (n=2,096), symptoms involving the respiratory system (n=1,495), and other cellulitis and abscess (n=1,442). These seven diagnoses accounted for 30 percent of all hospitalizations of males in 2011 (**Table 2**).

In 2011, pregnancy and delivery-related conditions accounted for 58 percent of all hospitalizations of females (Table 3). Other than pregnancy and delivery-related diagnoses, leading causes of hospitalizations of females were adjustment reactions (n=1,359), episodic mood disorders (n=1,158), uterine leiomyoma (n=541), depressive disorder (n=338), acute appendicitis (n=324), and intervertebral disc disorders (n=295). These six diagnoses accounted for 28 percent of all hospitalizations (not related to pregnancy/delivery) of females (Table 3).

Mental health conditions:

In 2011 mental disorders accounted for more hospitalizations of U.S. service members than any other major category of diagnoses (**Table 1**). Adjustment reactions (including post-traumatic stress disorder) and episodic mood disorders were associated with more hospitalizations among active component members than any other specific condition (at the 3-digit level); together, these two conditions accounted for 15 percent and 17 percent of all hospitalizations of males and females (excluding pregnancy and delivery-related), respectively (Tables 2,3).

Injuries and poisonings:

As in the past, in 2011, injuries and poisonings were a leading cause of hospitalizations of U.S. military members (Table 1). Of all injuries and poisonings that resulted in hospitalizations in U.S. military medical facilities (n=9,286), approximately one in seven (n=1,367; 14.7%) were reported as "intentionally inflicted" (e.g., enemy weapons; suicide gestures/attempts; fights, assaults, legal interventions) of which the majority (n=851; 62.3%) were reported as "battle casualties" (Table 4). Of all "unintentional" injuries and poisonings that resulted in hospitalizations in U.S. military facilities (n=7,885), approximately two-thirds (63.2%) were considered caused by falls and miscellaneous (n=2,011), complications of medical or surgical care (n=1,626), or guns and explosives (n=1,350) (Table 4).

Among males, injury and poisoning-related hospitalizations were most often related to complications of medical and surgical procedures and fractures of face, ankle, or leg bones (Table 2). Among females, injury and poisoning-related hospitalizations were most often related to complications of medical and surgical procedures, poisonings (analgesics, antipyretics, antirheumatics, psychotropic agents), and ankle fractures (Table 3).

Durations of hospitalizations:

Since 2002, the median durations of hospitalizations (all causes) have been stable (3 days), but the durations of the longest hospitalizations have increased (Figure 3). In 2011 as in previous years, medians and ranges of durations of hospitalizations significantly varied across major diagnostic categories. For example, median lengths of hospitalizations varied from two days (e.g., musculoskeletal system/connective tissue

FIGURE 2. Rate (per 1,000 p-yrs) of hospitalization by major diagnostic categories, by age and gender, active component, U.S. Armed Forces, 2011

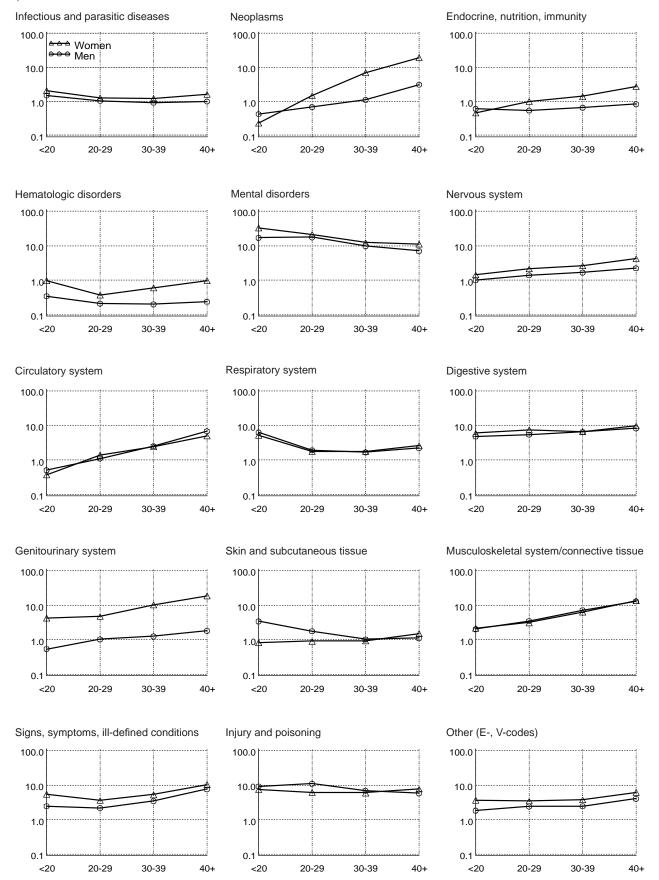


TABLE 2. Most frequent diagnoses during hospitalization by major diagnostic category, males, active component, U.S. Armed Forces, 2011

Diagnostic category (ICD-9-CM codes)	No.	%	Diagnostic category (ICD-9-CM codes)	No.
Infectious and parasitic diseases (001 - 139)	1,267		Digestive system (520 - 579)	7,502
Intestinal infections due to other organisms	212	16.7	Acute appendicitis	2,096
Meningitis due to enterovirus	187	14.8	Dentofacial anomalies including malocclusion	582
Septicemia	184	14.5	Cholelithiasis	491
III-defined intestinal infections	122	9.6	Diseases of pancreas	428
Viral and chlamydial infection	76	6.0	Diseases of esophagus	417
Neoplasms (140 - 239)	1,304		Genitourinary system (580 - 629)	1,442
Malignant neoplasm of prostate	88	6.7	Calculus of kidney and ureter	445
Malignant neoplasm of thyroid gland	84	6.4	Acute renal failure	245
Malignant neoplasm of brain	80	6.1	Other disorders of male genital organs	167
Malignant neoplasm of testis	72	5.5	Urethral stricture	105
Malignant neoplasm of colon	45	3.5	Other disorders of kidney and ureter	73
Endocrine, nutrition, immunity (240 - 279)	749		Skin and subcutaneous tissue (680 - 709)	1,978
Disorders of fluid electrolyte and acid-base balance	242	32.3	Other cellulitis and abscess	1,442
Diabetes mellitus	225	30.0	Pilonidal cyst	164
Overweight, obesity and other hyperalimentation	60	8.0	Cellulitis and abscess of finger and toe	116
Nontoxic nodular goiter	47	6.3	Other disorders of skin and subcutaneous tissue	50
Thyrotoxicosis with or without goiter	43	5.7	Other hypertrophic and atrophic conditions of skin	36
Hematologic disorders (280 - 289)	272		Musculoskeletal system/connective tissue (710 - 739)	6,857
Diseases of white blood cells	94	34.6	Intervertebral disc disorders	2,305
Other diseases of blood and blood-forming organs	52	19.1	Disorders of muscle ligament and fascia	578
Purpura and other hemorrhagic conditions	38	14.0	Spondylosis and allied disorders	490
Aplastic anemia	24	8.8	Osteoarthrosis and allied disorders	431
Other and unspecified anemias	24	8.8	Other and unspecified disorders of back	428
Mental disorders (290 - 319)	17,819		Congenital anomalies (740 - 759)	365
Adjustment reaction	5,503	30.9	Other congenital musculoskeletal anomalies	91
Episodic mood disorders	4,142	23.2	Anomalies of bulbus cordis, cardiac septal closure	43
Alcohol dependence syndrome	2,150	12.1	Other congenital anomalies of digestive system	33
Depressive disorder not elsewhere classified	1,209	6.8	Other congenital anomalies of heart	32
Nondependent abuse of drugs	1,037	5.8	Other congenital anomalies of circulatory system	30
Nervous system (320 - 389)	1,924		Signs, symptoms, and ill-defined conditions (780 - 799)	3,915
Pain, not elsewhere classified	354	18.4	Symptoms involving respiratory system	1,495
Organic sleep disorders	289	15.0	General symptoms	1,213
Epilepsy	219	11.4	Other symptoms involving abdomen and pelvis	510
Migraine	161	8.4	Symptoms involving head and neck	174
Other conditions of brain	93	4.8	Symptoms involving digestive system	146
Circulatory system (390 - 459)	2,620		Injury and poisoning (800 - 999)	11,410
Cardiac dysrhythmias	558	21.3	Other complications of procedures not elsewhere classified	972
Acute pulmonary heart disease	314	12.0	Fracture of ankle	580
Acute myocardial infarction	185	7.1	Complications peculiar to certain specified procedures	511
Other forms of chronic ischemic heart disease	174	6.6	Fracture of face bones	474
Other venous embolism and thrombosis	149	5.7	Fracture of tibia and fibula	453
Respiratory system (460 - 519)	2,655		Other (V01-V82, except pregnancy-related)	3,199
Pneumonia organism unspecified	857	32.3	Encounter for other and unspecified procedures, aftercare	1,008
Pneumothorax	202	7.6	Observation, evaluation for suspected conditions not found	500
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Deviated nasal septum	169	6.4	Convalescence and palliative care	422
	169 161	6.4 6.1	Convalescence and palliative care Care involving use of rehabilitation procedures	422 396

TABLE 3. Most frequent diagnoses during hospitalization by major diagnostic category, females, active component, U.S. Armed Forces, 2011

Diagnostic category (ICD-9-CM codes)	No.	%	Diagnostic category (ICD-9-CM codes)	Diagnostic category (ICD-9-CM codes) No.
Infectious and parasitic diseases (001 - 139)	279		Digestive system (520 - 579)	Digestive system (520 - 579) 1,547
Intestinal infections due to other organisms	48	17.2	Acute appendicitis	Acute appendicitis 324
Septicemia	47	16.8	Cholelithiasis	Cholelithiasis 224
Meningitis due to enterovirus	43	15.4	Dentofacial anomalies including malocclusion	Dentofacial anomalies including malocclusion 213
III-defined intestinal infections	29	10.4	Other and unspecified noninfectious gastroenteritis and colitis	Other and unspecified noninfectious gastroenteritis and colitis 77
Viral and chlamydial infection	21	7.5	Diseases of pancreas	Diseases of pancreas 71
Neoplasms (140 - 239)	934		Genitourinary system (580 - 629)	Genitourinary system (580 - 629) 1,560
Uterine leiomyoma	541	57.9	Disorders of menstruation and other abnormal bleeding	Disorders of menstruation and other abnormal bleeding 283
Malignant neoplasm of thyroid gland	51	5.5	Infections of kidney	Infections of kidney 192
Malignant neoplasm of female breast	45	4.8	Pain, other symptoms associated with female genital organs	Pain, other symptoms associated with female genital organs 178
Benign neoplasm of ovary	43	4.6	Noninflammatory disorders of ovary fallopian tube	Noninflammatory disorders of ovary fallopian tube 155
Malignant neoplasm of ovary,other uterine adnexa	23	2.5	Other disorders of breast	Other disorders of breast 135
Endocrine, nutrition, immunity (240 - 279)	256		Pregnancy and delivery (630 - 679, relevant V-codes)	Pregnancy and delivery (630 - 679, relevant V-codes) 19,722
Disorders of fluid electrolyte and acid-base balance	68	26.6	Trauma to perineum and vulva during delivery	Trauma to perineum and vulva during delivery 4,984
Nontoxic nodular goiter	58	22.7	Other indications for care or intervention related to labor	Other indications for care or intervention related to labor 1,624
Overweight, obesity and other hyperalimentation	35	13.7	Other conditions complicating pregnancy	Other conditions complicating pregnancy 1,468
Thyrotoxicosis with or without goiter	31	12.1	Abnormality of organs and soft tissues of pelvis	Abnormality of organs and soft tissues of pelvis 1,400
Diabetes mellitus	15	5.9	Hypertension complicating pregnancy, childbirth	Hypertension complicating pregnancy, childbirth 1,360
Hematologic disorders (280 - 289)	110		Skin and subcutaneous tissue (680 - 709)	Skin and subcutaneous tissue (680 - 709) 204
Iron deficiency anemias	39	35.5	Other cellulitis and abscess	Other cellulitis and abscess 116
Other and unspecified anemias	19	17.3	Pilonidal cyst	Pilonidal cyst 18
Purpura and other hemorrhagic conditions	14	12.7	Other hypertrophic and atrophic conditions of skin	Other hypertrophic and atrophic conditions of skin 11
Diseases of white blood cells	14	12.7	Erythematous conditions	Erythematous conditions 10
Hereditary hemolytic anemias	10	9.1	Other disorders of skin and subcutaneous tissue	Other disorders of skin and subcutaneous tissue 10
Mental disorders (290 - 319)	3,916		Musculoskeletal system/connective tissue (710 - 739)	Musculoskeletal system/connective tissue (710 - 739) 1,028
Adjustment reaction	1,359	34.7	Intervertebral disc disorders	Intervertebral disc disorders 295
Episodic mood disorders	1,158	29.6	Other derangement of joint	Other derangement of joint 87
Depressive disorder not elsewhere classified	338	8.6	Other and unspecified disorders of back	Other and unspecified disorders of back 81
Alcohol dependence syndrome	227	5.8	Other disorders of bone and cartilage	Other disorders of bone and cartilage 70
Anxiety, dissociative and somatoform disorders	226	5.8	Spondylosis and allied disorders	Spondylosis and allied disorders 59
Nervous system (320 - 389)	505		Signs, symptoms, ill-defined conditions (780 - 799)	Signs, symptoms, ill-defined conditions (780 - 799) 1,001
Migraine	97	19.2	General symptoms	General symptoms 286
Pain, not elsewhere classified	84	16.6	Other symptoms involving abdomen and pelvis	Other symptoms involving abdomen and pelvis 263
Epilepsy	60	11.9	Symptoms involving respiratory system	Symptoms involving respiratory system 239
Other conditions of brain	35	6.9	Symptoms involving head and neck	Symptoms involving head and neck 60
Multiple sclerosis	22	4.4	Symptoms involving digestive system	Symptoms involving digestive system 48
Circulatory system (390 - 459)	407		Injury and poisoning (800 - 999)	Injury and poisoning (800 - 999) 1,331
Acute pulmonary heart disease	80	19.7	Other complications of procedures not elsewhere classified	Other complications of procedures not elsewhere classified 198
Cardiac dysrhythmias	76	18.7	Complications peculiar to certain specified procedures	Complications peculiar to certain specified procedures 104
Other venous embolism and thrombosis	31	7.6	Poisoning by analgesics antipyretics and antirheumatics	Poisoning by analgesics antipyretics and antirheumatics 93
Hemorrhoids	25	6.1	Poisoning by psychotropic agents	Poisoning by psychotropic agents 86
Other and ill-defined cerebrovascular disease	18	4.4	Fracture of ankle	Fracture of ankle 75
Respiratory system (460 - 519)	435		Other (V01-V82, except pregnancy-related)	Other (V01-V82, except pregnancy-related) 795
Pneumonia organism unspecified	86	19.8	Observation and evaluation for suspected conditions not found	Observation and evaluation for suspected conditions not found 267
Asthma	49	11.3	Encounter for other and unspecified procedures and aftercare	Encounter for other and unspecified procedures and aftercare 185
Chronic disease of tonsils and adenoids	46	10.6	Convalescence and palliative care	Convalescence and palliative care 101
Acute tonsillitis	26	6.0	Care involving use of rehabilitation procedures	·
			Other orthopedic aftercare	

TABLE 4. Injury and poisoning hospitalizations^a by causal agent^b, active component, U.S. Armed Forces, 2011

2011							
Cause	No.	%					
Unintentional	7,885	84.9					
Fall and miscellaneous	2,011	21.7					
Complications of medical/ surgical care	1,626	17.5					
Guns, explosives (includes accidents during war)	1,350	14.5					
Land transport	959	10.3					
Poisons and fire	649	7.0					
Athletics	436	4.7					
Environmental	320	3.4					
Machinery, tools	262	2.8					
Air transport	245	2.6					
Water transport	27	0.3					
Intentional	1,367	14.7					
Battle casualty	851	9.2					
Self-inflicted	416	4.5					
Non-battle, inflicted by other	100	1.1					
Missing/invalid code	34	0.4					
^a Hospitalizations in U.S. military medical facilities only ^b Causal agents were determined by codes IAW STANAG 2050							

disorders; signs, symptoms, and ill-defined conditions) to five days (i.e., mental disorders). For most diagnostic categories, fewer than five percent of hospitalizations exceeded 9 days, but approximately five percent of mental disorder-related hospitalizations exceeded 31 days and five percent of "other" or V-coded hospitalizations (primarily orthopedic aftercare and rehabilitation following a previous illness or injury) exceeded 35 days (Figure 4).

Hospitalizations by service:

Among members of the Navy, Air Force, and Coast Guard, pregnancy and delivery-related conditions accounted for more hospitalizations than any other category of illnesses or injuries; however, among members of the Army and Marine Corps, mental disorders were the leading cause of hospitalizations. The crude hospitalization rate for mental disorders in the Army was approximately 70% higher than in the Marine Corps and more than twice as high than in the other Services (Table 5).

Injuries and poisonings were the second leading cause of hospitalizations in the Marine Corps, the third leading cause in the Army and Navy, and the fifth leading cause in the Air Force and Coast Guard. The hospitalization rate for injuries and poisonings was slightly higher among soldiers (12.6 per 1,000 p-yrs) than Marines (12.2 per 1,000 p-yrs) and more than twice as high among

soldiers and Marines than among members of the other Services (**Table 5**).

EDITORIAL COMMENT

In 2011, for every 15 active component service members, there was one hospitalization for any cause; for every

FIGURE 3. Length of hospital stay, by year, active component, U.S. Armed Forces, 2002-2011

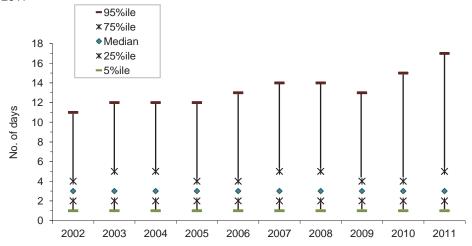


FIGURE 4. Length of hospital stay by major diagnostic category, active component, U.S. Armed Forces, 2011

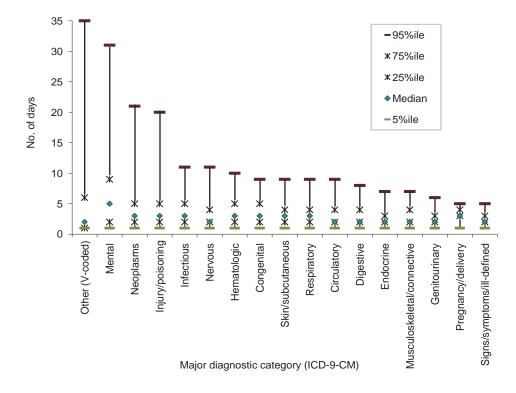


TABLE 5. Hospitalizations by service and ICD-9-CM diagnostic category, active component, U.S. Armed Forces, 2011

	Army			Navy	Air Force		Marine Corps		Coast Guard	
Major diagnostic category (ICD-9-CM)	No.	Ratea	No.	Ratea	No.	Ratea	No.	Ratea	No.	Ratea
Mental disorders (290 - 319)	13,003	23.1	3,066	9.5	2,797	8.5	2,606	13.0	263	6.3
Pregnancy and delivery (630-679, relevant V-codes) ^b	7,452	13.2(97.8)	4,786	14.9(91.6)	5,358	16.3 <i>(85.4)</i>	1,749	8.7(128.0)	377	9.0(65.5)
Injury and poisoning (800 - 999)	7,075	12.6	1,626	5.1	1,467	4.5	2,454	12.2	119	2.8
Digestive system (520 - 579)	4,264	7.6	1,622	5.1	1,854	5.6	1,115	5.5	194	4.6
Musculoskeletal system/connective tissue (710 - 739)	3,951	7.0	1,122	3.5	1,778	5.4	887	4.4	147	3.5
Signs, symptoms, ill-defined conditions (780 - 799)	2,625	4.7	870	2.7	973	3.0	409	2.0	39	0.9
Other (V01-V82, except pregnancy-related)	2,156	3.8	689	2.1	497	1.5	587	2.9	65	1.6
Circulatory system (390 - 459)	1,590	2.8	515	1.6	602	1.8	257	1.3	63	1.5
Respiratory system (460 - 519)	1,568	2.8	414	1.3	515	1.6	552	2.7	41	1.0
Genitourinary system (580 - 629)	1,501	2.7	537	1.7	635	1.9	279	1.4	50	1.2
Nervous system (320 - 389)	1,296	2.3	399	1.2	445	1.4	256	1.3	33	8.0
Neoplasms (140 - 239)	1,026	1.8	483	1.5	516	1.6	166	8.0	47	1.1
Skin and subcutaneous tissue (680 - 709)	959	1.7	363	1.1	332	1.0	497	2.5	31	0.7
Infectious and parasitic diseases (001 - 139)	708	1.3	268	0.8	267	8.0	265	1.3	38	0.9
Endocrine, nutrition, immunity (240 - 279)	573	1.0	148	0.5	183	0.6	93	0.5	8	0.2
Congenital anomalies (740 - 759)	207	0.4	93	0.3	111	0.3	55	0.3	3	0.1
Hematologic disorders (280 - 289)	174	0.3	64	0.2	74	0.2	66	0.3	4	0.1
Total	50,128	88.9	17,065	53.1	18,404	51.9	12,293	61.1	1,522	36.4

^aRate expressed as hospitalizations per 1,000 p-yrs of service

18 members, there was one hospitalization for a condition not related to pregnancy and delivery. Hospitalization rates for all causes among active component members increased in 2011 compared to the past decade. As in the past, in 2011, mental disorders, pregnancy and delivery-related conditions, and injuries and poisonings accounted for more than one-half of all hospitalizations of active component members. Since 2007, hospitalizations for mental disorders increased by more than 50 percent; during the same period, hospitalizations for injuries and poisonings slightly decreased.

The recent sharp increase in hospitalizations for mental disorders likely reflects the effects of many factors including repeated deployments and prolonged exposures to combat stresses; increased awareness and concern regarding threats to mental health among unit commanders and other front line supervisors, service members and their families, and medical care providers; increased screening for and detection of mental disorders after combat-related service and other traumatizing experiences; and decreasing stigmas and

removal of barriers to seeking and receiving mental disorder diagnoses and care.

There are limitations to this summary that should be considered when interpreting the results. For example, the scope of this report is limited to members of the active components of the Services. Many reserve component members were hospitalized for illnesses and injuries while serving on active duty in 2011; these hospitalizations are not accounted for in this report. Also, many injury and poisoning-related hospitalizations occur in non-military hospitals; in most cases, the "external causes" of such injuries and poisonings are not reported on standardized records. If there are significant differences in the causes of injuries and poisonings that resulted in hospitalizations in U.S. military and non-military hospitals, the summary of external causes of injuries requiring hospital treatment reported here (Table 4) could be misleading. Also, this summary is based on primary (first-listed) discharge diagnoses only; in many hospitalized cases, there are multiple underlying conditions. For example, military members who are wounded in combat or injured in motor vehicle accidents may have multiple injuries and complex medical and psychological complications. In such cases, only the first-listed discharge diagnosis would be accounted for in this report. Even with these and other limitations, this report provides useful and informative insights regarding the natures, rates, and distributions of the most serious illnesses and injuries that affect active component military members.

In 2011, adjustment reactions (including post-traumatic stress disorder), mood disorders, and intervertebral disc disorders were among the leading causes of hospitalizations of both male and female service members. In recent years, attention at the highest levels of the U.S. military and significant resources have been focused on detecting, diagnosing, and treating mental disorders - especially those related to long and repeated deployments and combat stresses. In addition, the findings of this and other surveillance reports suggest that military medical research, force health protection, and clinical practice efforts should focus on improving the prevention, treatment, and rehabilitation of back disorders among U.S. military members.

^bRate of pregnancy and delivery-related hospitalizations among females only (in parentheses)