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Health Service Support Field Reference Guide

U.S. Marine Corps

DEPARTMENT OF THE NAVY
Headquarters United States Marine Corps
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FOREWORD

Marine Corps Reference Publication (MCRP) 4-11.1E, *Health Service Support Field Reference Guide* enables commanders of medical units and commanders of units with organic medical and dental elements, their staffs, and Navy medical augmentation personnel to better understand the Marine Corps health service support (HSS) system. It is designed to disseminate information on the concept of employment of HSS units in an operational environment. In an operational environment includes both medical and dental elements.

MCRP 4-11.1E expands on the doctrine in MCWP 4-11.1, *Health Service Support* and provides specific tactics, techniques, and procedures for medical personnel in support of Marine operating forces. All medical personnel serving with the Marine Corps should read it.

Surgical principles and techniques of individual casualty management are beyond the scope of this publication. That subject is covered in *Emergency War Surgery, Second United States Revision of The Emergency War Surgery NATO Handbook*, a Department of Defense (DOD) publication used by the medical services of all North Atlantic Treaty Organization (NATO) forces.

No supersession.

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Health Service Support Field Reference Guide

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1 **Chapter 1**
2 **Fundamentals**

3
4 The mission of HSS is to minimize the effects that wounds, injuries, and disease have on unit
5 effectiveness, readiness, and morale. This requires the HSS system to return personnel to duty as
6 expeditiously as possible and minimize morbidity and mortality in those who cannot be returned
7 to duty by effective evacuation out of theater in a timely manner.

8
9 Although there is a commitment to provide the best possible HSS to the sick and injured in peace
10 and war, the most cost efficient means of maintaining the health of the force is through the
11 promotion of wellness and the prevention of disease and injury.

12
13 **1001. Functions**

14
15 Medical plans will include the following functions into the HSS concept of operations:

16
17 **Health Maintenance**

18
19 The function of health maintenance includes tasks required to ensure the medical and dental
20 readiness of the unit and its personnel. Included in these tasks are providing routine sick call
21 and physical examinations, conducting and supporting preventive medicine (PM) and definitive
22 dental care, maintaining medical and dental records, and submitting required reports.

23
24 **Casualty Collection**

25
26 Casualty collection requires that each unit include in its plans, provisions for selection and
27 manning of locations where casualties may be assembled, triaged, treated, and protected from
28 further injury while awaiting evacuation to the next level of care.

29
30 **Casualty Treatment**

31
32 Casualty treatment includes the provision of care that is within the unit's capabilities. Tasks
33 include triage and treatment ranging from self, buddy, and corpsman aid through initial
34 resuscitative care.

35
36 **Temporary Casualty Holding**

37
38 Temporary casualty holding requires facilities and services to provide medical treatment and
39 stabilization for sick, wounded, and injured personnel for a limited time. Within medical
40 resources organic to the Marine Corps operating forces, only the medical battalions are staffed
41 and equipped to provide temporary casualty holding.

42
43 **Casualty Evacuation**

44
45 Casualty evacuation includes those tasks associated with the movement and ongoing treatment
46 of the sick, wounded or injured from the point of injury or the onset of disease to and between

1 medical treatment facilities of the force. All units have an evacuation capability. In the absence
2 of a medical transport, any conveyance may be used to evacuate casualties.

4 **1002. HSS and the Command**

6 Commanders are ultimately responsible for the health of their commands. Each commander is
7 provided HSS through organic medical elements or medical elements of a designated supporting
8 structure. When additional medical support is required for a particular operation, requirements
9 must be identified early in the planning process and appropriate units identified and tasked
10 through the operational chain of command.

12 Medical support planning should follow the tactical planning guidance and policies of the
13 commander and be fully integrated in the Marine Corps Planning Process. See MCWP 5-1,
14 *Marine Corps Planning Process*. The commander's staff develops requirements for support with
15 input from the medical sections. The medical support requirements are incorporated in Annex Q
16 (Medical Services) of the operation plan (OPLAN), operation order (OPORD), and Appendix 9
17 (Health Services) to Annex D (Logistics/Combat Service Support). **The commander's staff and
18 medical unit commanders must communicate and be involved in all stages of planning.**

20 Commanders are responsible for communications to include supporting HSS units.
21 Communications capabilities must, at a minimum, provide for—

- 23 - Command and control functions.
- 25 - Patient evacuation net control/interface.
- 27 - Control of ground ambulances/vehicles.
- 29 - Communications with detached medical elements and units.
- 31 - Data transfer.

33 **1003. HSS Principles**

35 MCWP 4-11, *Tactical Level Logistics*, and MCWP 4.11.1, *Health Service Support Operations*,
36 provide a detailed discussion of HSS as a function of tactical level logistics. MCWP 4-11.1
37 describes in detail the principles of HSS and states the HSS system will encompass: *conformity*,
38 *responsiveness*, *flexibility*, *mobility*, *continuity*, and *coordination*.

40 Like the principles of war and logistics, the principles of HSS are guides for planning, organizing,
41 managing, and executing. The success of HSS depends on its skillful application. These
42 principles are not rigid rules applicable in every situation. Seldom will all of them exert equal
43 influence. Usually, one or two will dominate in a given situation. Identifying those that have
44 priority in a specific situation is essential to establishing effective HSS. The combat service
45 support element (CSSE) commander applies these principles when structuring and organizing the
46 CSSE to address the functions of HSS. Conflicts among the various principles may occur when

1 applying each in a particular situation.

2

3 **Conformity**

4

5 Conformity with the Marine air-ground task force (MAGTF) commander's OPLAN or OPORD is
6 the fundamental element to effective HSS. Only by participating in the development of this plan
7 can the HSS planner ensure adequate support at the right time and the right place.

8

9 **Responsiveness**

10

11 The speed with which medical treatment is initiated is extremely important in reducing morbidity
12 and mortality. The efficient allocation of and the judicious location of military treatment
13 facilities (MTF) must optimize access to care.

14

15 **Flexibility**

16

17 Since a change in tactical plans or operations may require redistribution of HSS resources to meet
18 the changing requirements, no more medical resources should be committed than are required to
19 support expected casualty estimates. When the casualty load exceeds the means available for
20 treatment (mass casualty situation), it may be necessary to give priority to those casualties who
21 can be returned to duty the soonest, rather than those who are more seriously injured.

22

23 **Mobility**

24

25 Since contact with supported units must be maintained, HSS elements must have mobility
26 comparable to that of the units they support. Mobility is measured by the extent to which a unit
27 can move its personnel and equipment with organic transportation. When totally committed to
28 casualty care, an HSS unit can regain its mobility only by immediate patient evacuation.

29

30 **Continuity**

31

32 HSS must be continuous since an interruption of treatment may cause an increase in morbidity
33 and mortality.

34

35 **Coordination**

36

37 The objective of this principle is to ensure that HSS resources in short supply are efficiently
38 employed and used to effectively support the planned operation. Continuous coordination
39 ensures that medical resources are not placed in areas that interfere with combat operations.

40

41 **1004. Force Health Protection**

42

43 Force health protection (FHP) includes all measures taken by the chain of command and the
44 military health system to promote, improve, conserve, and restore the mental or physical well
45 being of personnel across the range of military operations. FHP is accomplished through the
46 promotion of wellness, physical conditioning, medical surveillance, dental readiness and health,

1 PM, and the establishment of a phased health care delivery system.

2
3 FHP employs the right mix of HSS capabilities to provide effective and efficient care. The past
4 HSS philosophy of providing definitive care in theater to maximize return to duty (RTD) has
5 evolved to a philosophy of providing essential care in theater to either RTD within the theater
6 evacuation policy or stabilize them for rapid evacuation to definitive care outside the theater of
7 operations.

8 **Pillars of Force Health Protection**

9
10 The three pillars of FHP are a healthy and fit force, prevention and protection, and casualty care
11 and management.

12
13
14 The first pillar of FHP promotes a healthy and fit force and provides the commander with
15 Marines and Sailors capable of withstanding the physical and mental rigors associated with
16 combat and other military operations. Effective and enhanced quality of life guards the force
17 against disease and nonbattle injury (DNBI), combat and operational stress reaction (COSR), and
18 other health threats. Wellness requires continuous attention before, during, and after deployment
19 to sustain maximum readiness and operational capability.

20
21 The second FHP pillar is casualty prevention and protection; this is the primary focus of Naval
22 HSS. Casualty prevention focuses on the threats posed by enemy forces and occupational and
23 environmental health (EH) threats.

- 24
25 ■ The enemy threat depends on the enemy's willingness and ability to use force to produce
26 casualties. Aggressive HSS enhances the force's ability to minimize combat injuries
27 resulting from continuous operations, COSR, and/or nuclear, biological, and chemical
28 (NBC) agents.
- 29
30 ■ The health threat depends on a complex set of environmental and occupational factors
31 that combine to produce DNBI and COSR and are a serious threat to Marines. To counter
32 the health threat there must be a comprehensive disease and environmental surveillance
33 data collection system and countermeasures such as immunizations, chemoprophylaxis,
34 and environmental preventive measures.
- 35
36 ■ A robust health surveillance system is a critical component of FHP. Deployment health
37 surveillance includes identifying the population at risk, recognizing and assessing
38 hazardous exposures, employing specific countermeasures, and monitoring health
39 outcomes.

40
41 In every war for which statistics are recorded, military forces have lost more personnel to disease
42 than to direct combat with opposing forces. Figure 1-1 illustrates the severe impact of disease on
43 combat forces as a percentage of total admissions.

44

CAUSE/ WARS	WW II 1941-1945	KOREA 1950-1953	VIETNAM 1965-1970
----------------	--------------------	--------------------	----------------------

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DISEASE/ NONBATTLE INJURIES	95.9%	82.4%	62.4%
BATTLE INJURIES	4.1%	17.6%	37.6%

Figure 1-1. Distribution of Casualties.

HSS personnel are responsible for recommending preventive measures to safeguard the command from potential and actual health threats, risks, and hazards. This is an essential element in the overall effort to conserve the combat effectiveness of the command. Every activity that may affect an individual’s mental or physical health is a matter of concern to the commander and his staff.

The medical battalion, force service support group (FSSG) contains the bulk of PM assets in a Marine expeditionary force (MEF). When PM requirements exceed organic capabilities of a supported unit, commanders should submit requests for additional support to the MEF PM officer (PREVMEDO).

Preventive medicine efforts have reduced the incidence of disease in present-day deployments. Weekly disease surveillance was conducted during Operation Desert Shield/Storm and in Somalia during Operation Restore Hope. This provided real time feedback of disease incidence, potential problem areas, and the effect of PM corrective measures. Real time disease surveillance is our most effective weapon in disease and injury control. It should be executed at all levels of care and used to brief commanders on effectiveness of PM measures.

PM personnel support commanders by ensuring the necessary EH controls are planned and carried out for food procurement, potable water, waste disposal, general field sanitation, personal hygiene, vector control, and other necessary public health control measures to maintain the health of the operational forces. Successful PM programs require participation at all levels of command.

The third pillar is casualty care and management, which includes casualty care and patient movement. This builds on the traditional strengths of military medicine: using new technologies and mobility to achieve a lighter, faster, more responsive medical capability. It encompasses care provided from the point of injury through successive phases of medical care, up to and including definitive and rehabilitative management in hospitals in the continental United States (CONUS).

1005. Levels of Care

Medical support within an area of operations (AO) is organized into levels that extend from the front to the rear throughout the area. Each level’s capabilities are designed to provide--

- Mobility and capability required to meet basic health care needs of supported operational units.
- Phased treatment, casualty holding, and preparation for evacuation of the sick, wounded or

1 injured.

2
3 Each level of care provides the same treatment capabilities as the level below it, plus new
4 capabilities that differentiate it from the lower level. Marine Corps operating forces HSS is
5 designed to allow flexibility demanded by mission, enemy forces, terrain, and other tactical
6 situations.

7
8 Each level of the HSS system is limited by four interacting factors--

- 9 - Urgency of the patients' needs.
- 10 - Unit mobility.
- 11 - Capabilities of HSS personnel, equipment, and supplies.
- 12 - Workload of each HSS unit relative to its treatment capacity.

13
14 Wartime casualties are evacuated through the HSS system until they arrive at a facility with the
15 capability, time, and bed capacity to begin definitive intervention to return them to duty or
16 prepare them for further evacuation. The site of principal treatment is determined simultaneously
17 by the patient's diagnosis, HSS unit's capabilities, and workload.

18
19 An HSS facility in the continuum of care must be defined not only in terms of HSS capabilities,
20 but also by the categories of patients for which it would be the site of principal treatment during
21 combat. For example, the anticipated workload might dictate that casualties with chest wounds
22 be stabilized at a Level II medical battalion surgical company, and evacuated to a Level III
23 facility for thoracic surgery. In this case, the Level III facility would serve as the site of principal
24 treatment for patients requiring thoracic surgery.

25 26 **Level I, Unit Level (First Responder)**

27
28 Unit level HSS is provided to the personnel of a unit and its attachments by organic battalion aid
29 stations (BASs) or squadron medical sections. In the case of organizations without organic
30 medical elements, unit level care is provided by medical elements at regimental, group, or
31 support squadron level or other designated medical elements.

32
33 The overarching goal of Level I is to save lives by providing early medical stabilization and
34 evacuation. The level of care is based on the abilities of the first person responding to an event
35 that requires medical intervention. Level I includes self-aid and buddy-aid, unit corpsmen,
36 independent duty corpsmen, or other medical personnel. First response requires that the
37 individual have an understanding of the next level of care available and the patient movement
38 system.

39
40 **Unit Hospital Corpsman (First Aid).** The company or squadron corpsman represents the first
41 point where a sick, injured or wounded Marine might receive care. Emergency or lifesaving
42 measures required before a hospital corpsman's care must be performed by fellow Marines
43 trained in first aid/buddy aid. Care from unit corpsmen includes primary and secondary
44 assessments, followed by emergency or lifesaving measures (establishing and maintenance of
45 airway, control of bleeding, cardiopulmonary resuscitation, treatment for shock, and fracture
46 stabilization). The corpsman's duties include basic medical skills, use of medical equipment and

1 supplies, and initiation of requests for assistance and evacuation.

2
3 **Aid Station.** This level of treatment is distinguished by the skills of a general medical officer or
4 flight surgeon. Treatment is provided based on a more comprehensive evaluation and treatment
5 plan. This may include restoration of airway, use of intravenous fluids, antibiotics, and
6 application of splints and bandages. These elements of medical management prepare patients for
7 return to duty or evacuation to the appropriate level of treatment.

8
9 **Shock Trauma Platoon.** Shock trauma platoon (STP) support includes collecting, clearing, and
10 evacuating casualties from supported elements and medical units for resuscitative procedures and
11 temporary holding of casualties. Advanced trauma life support capable, the STP bridges the gap
12 between Level I and Level II medical care.

13 14 **Level II, Force**

15
16 Level II includes initial emergency resuscitative surgery, coupled with life and limb saving
17 actions. It provides, as soon as tactically possible, a mobile surgical capability within a theater
18 and as close to the battlefield as is tactically possible. It does, however, require operational and
19 logistical support when employed. Location and accessibility of forward resuscitative surgery is
20 critically linked to the capability to evacuate casualties rapidly to the appropriate level of care.
21 The specific tactical situation, time available, evacuation capability, and available resources
22 determine which surgical procedures may be performed. It is essential to establish the capabilities
23 of Level II treatment and the relationship to the next appropriate level of care. The preparation of
24 casualties for further evacuation and treatment at the theater hospital dictates standards of
25 essential care.

26
27 HSS units and elements of the FSSG provide force level HSS which includes resuscitation and
28 stabilization. Limited resources preclude the ability to complete long-term courses of health care
29 in a theater. Force level support augmentation may be provided from external resources such as
30 casualty receiving and treatment ships (CRTSs). Moving casualties through the levels of care is
31 coordinated through the medical evacuation system.

32
33 **Forward Resuscitative Surgery.** The forward resuscitative surgery system (FRSS) is a highly mobile,
34 rapidly deployable, trauma surgical unit that will provide emergency surgical interventions required to
35 stabilize casualties who might otherwise die or lose limbs before reaching treatment. The forward
36 resuscitative surgery system has a small logistic footprint in order to support early introduction into the
37 operating area, rapid movement, erection, deployment, and redeployment in forward areas.

38
39 **Surgical Company.** Provides general HSS, including medical, dental, and surgical care, and the
40 temporary holding of casualties. Doctrinally, one surgical company supports one regiment. The
41 surgical company provides the highest level of medical care organic to the Marine Corps.

42
43 **Casualty Receiving and Treatment Ship.** Large-deck amphibious ships are designated for use
44 as CRTSs. This treatment phase is distinguished by applying clinical assessment by a team of
45 medical officers and technician staff. This level of care includes general surgery, basic
46 laboratory, pharmacy, x-ray, dental, and holding ward capabilities. Examinations and

1 observations can be accomplished in a more deliberate manner. The objective of this phase of
2 treatment is to perform and enhance emergency procedures that constitute initial resuscitative
3 surgery and forestall death or loss of limb and/or body function. Patients who need a more
4 comprehensive scope of treatment are evacuated to the level of treatment required by their
5 condition.

6 7 **Levels III and IV, Theater**

8
9 Level III (Essential Care), care within the theater, is characterized by the theater hospital. The
10 theater hospital is at the core of ensuring quality health care to our forces. Key to success for the
11 theater hospital is the ability to provide care within 12 hours from time of injury. The theater
12 hospital provides standard modules for casualty care, using internal and external informatics in
13 preparation for early patient movement to more definitive care. The hospital will treat all
14 casualties within the theater evacuation policy. When required, casualties will be evacuated,
15 using intratheater or intertheater air evacuation assets to the next level of care.

16
17 Hospital ships, Navy fleet hospitals, overseas hospitals, medical treatment facilities of other
18 Services, and host-nation support (HNS) agreements provide theater level HSS. Movement of
19 patients to and between theater facilities is coordinated through the theater patient movement
20 requirements center.

21
22 The theater hospital should be employed in proper relation to the point of injury, taking into
23 account the time-distance relationship and the ability of the patient evacuation system. The
24 theater hospital should be placed where it best provides support to the combat forces to ensure
25 that all injuries requiring surgical intervention are attended to within 12 hours.

26
27 Level IV (Definitive Health Care) requires the military healthcare system to develop and
28 establish the most efficient means to interface with HSS requirements. This requires evacuation
29 and hospitalization strategies which can maintain the capability to "provide a fit and healthy
30 force; prevent casualties; and provide care and management of casualties" in theaters as well as
31 in CONUS. A reduced outside the continental United States medical treatment capability, a
32 smaller medical footprint, and enhanced evacuation capabilities implies greater CONUS
33 requirements.

34
35 Definitive health care relies on all aspects of the military healthcare system for successful
36 implementation. It includes comprehensive HSS throughout the DOD that is comparable to
37 civilian standards. Service members and their beneficiaries receive professional clinical care that
38 targets health, fitness, and optimal physical and emotional well-being. At transition to war, the
39 Services provide the theater commander with contingency health support. This support is
40 integrated among the Services to optimize support throughout the operational spectrum. This
41 support includes casualty prevention, extensive essential medical support forward, and definitive
42 health support in CONUS.

43 44 **Level V, Continental United States**

45
46 Limited resources preclude the ability to complete long-term courses of health care in a theater.

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1 Level V care that is convalescent, restorative, and rehabilitative care will normally be provided in
2 CONUS.

3
4 Level V care is provided in military hospitals, other federal hospitals, and selected civilian
5 facilities that may be activated under the National Disaster Medical System. The Global Patient
6 Movement Requirements Center coordinates movement of patients to and between CONUS
7 medical treatment facilities.

8
9 **1006. Triage Categories**

10
11 A mass casualty situation may develop; that is, the number of patients requiring care exceeds the
12 capabilities of treatment personnel and equipment. Thus, correct triage and evacuation
13 procedures are essential. Patient triage classifications are as follows--

14 • Immediate treatment group (T1). Those requiring immediate lifesaving surgery.
15 Procedures should not be time-consuming and should concern only those with a high chance of
16 survival, such as respiratory obstruction and accessible hemorrhage.

17 • Delayed treatment group (T2). Those needing surgery, but whose conditions
18 permit delay without unduly endangering safety. Life-sustaining treatment such as intravenous
19 fluids, antibiotics, splinting, catheterization, and relief of pain may be required in this group.
20 Examples are fractured limbs, spinal injuries, and uncomplicated burns.

21 • Minimal treatment group (T3). Those with relatively minor injuries who can be
22 helped by untrained personnel, or who can look after themselves, such as minor fractures or
23 lacerations. Buddy care is particularly important in this situation.

24 • Expectant treatment group (T4). Those with serious or multiple injuries
25 requiring intensive treatment, or with a poor chance of survival. These patients receive
26 appropriate supportive treatment compatible with resources, which will include large doses of
27 analgesics as applicable. Examples are severe head and spinal injuries, widespread burns, or high
28 doses of radiation; this is a temporary category.

Chapter 2

Health Service Support Organizations of Marine Operating Forces

HSS has been organized to meet the need of the Marine Corps with enhanced medical capabilities and evacuation facilities concentrated in the CSSE of the MAGTF. The evolving Marine Corps concepts of the future battlefield reflect a requirement for enhanced force mobility. Among concepts underscoring the requirement for increased mobility is maneuver warfare, advanced offensive weapons targeting systems, vertical assault, and over-the-horizon assault techniques. Forces cannot concentrate to fight and then disperse without the ability to move rapidly. As a result, CSSEs must evolve to meet these changes to be as capable and mobile as the forces they support. The requirement for mobility is reinforced by the fact that friendly forces may be denied a secure rear area in future battlefields. The major threat factor in this consideration lies in offensive weapons targeting systems that are capable of targeting fixed rear area facilities from great distances. The threat of biological, chemical, and radiological warfare, and potential guerrilla activity also act to eliminate the rear area as a safe haven. HSS facilities on the battlefield must be able to establish, displace, and rapidly relocate.

In garrison and during routine deployments Marine Corps units are not staffed with the full wartime complement of HSS personnel. When increased medical and dental manning levels are required units can be brought to wartime manning through the Medical Augmentation Program (MAP). Augmentation is the process by which wartime medical requirements of operating forces and medical support units are filled by active duty personnel to bring units to their full or partial wartime allowance. For detailed information on the MAP process see BUMEDINST 6440.5 series, *Medical Augmentation Program (MAP)*.

2001. General Organization of Marine Air-Ground Task Forces

The MAGTF is the Marine Corps' principal organization for the conduct of all missions across the full range of military operations. MAGTFs are balanced, combined arms forces with organic ground, aviation, and CSSEs. They are flexible, task-organized forces that can respond rapidly to a contingency anywhere in the world and are able to conduct a variety of missions. Although organized and equipped to participate as part of naval expeditionary forces, MAGTFs also have the capability to conduct sustained operations ashore. MAGTFs are organized, trained, and equipped to perform missions ranging from foreign humanitarian assistance to peacekeeping to intense combat and can operate in permissive, uncertain, and hostile environments. They may be shore or sea based in support of joint and multinational major operations and/or campaigns. MAGTFs deploy as amphibious, air contingency, or maritime pre-positioning forces (MPFs), either as part of an amphibious expeditionary force or via strategic lift.

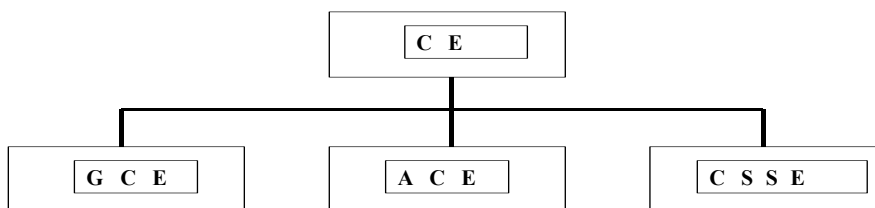
Although MAGTFs are task-organized, each MAGTF, regardless of its size or mission, has the same basic structure. Each MAGTF has four core elements: a command element (CE), a ground combat element (GCE), an aviation combat element (ACE), and a CSSE. See figure 2-1. For a thorough explanation of the MAGTF see MCRP 5-12D, *Organization of Marine Corps Forces*.

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1 The CE is the MAGTF headquarters and is task-organized to provide command and control
2 capabilities (including intelligence and communications) necessary for effective planning,
3 direction, and execution of all operations.

4
5 The GCE is task-organized to conduct ground operations in support of the MAGTF mission. It is
6 normally formed around an infantry organization reinforced with requisite artillery,
7 reconnaissance, armor, and engineer forces and can vary in size and composition from a rifle
8 platoon to one or more Marine divisions.

9
10 The ACE is task-organized to support the MAGTF mission by performing some or all of the six
11 functions of Marine aviation: antiair warfare, offensive air support, assault support, electronic
12 warfare, air reconnaissance, and control of aircraft and missiles. The ACE is normally built



13 **Figure 2-1. MAGTF Organization.**

14
15 around an aviation organization that is augmented with appropriate air command and control,
16 combat, combat support, and combat service support (CSS) units. The ACE can range in size and
17 composition from an aviation detachment to one or more Marine aircraft wings.

18
19 The CSSE is task-organized to support the MAGTF mission by providing general and direct
20 support and sustained CSS above the organic capabilities of supported elements.

21
22 **2002. Health Service Support Organization Fundamentals**

23
24 HSS personnel are assigned to all combat and combat support organizations of the Marine
25 operating forces.

26
27 CSS organizations have HSS personnel assigned in accordance with their mission and the
28 mission of their parent command.

29
30 HSS requirements above the organic capabilities of the CE, GCE and ACE of a MAGTF are
31 provided by the CSSE.

32
33 HSS material support for all combat, combat support, and CSS elements above the
34 battalion/squadron level is provided by the FSSG.

2003. The Marine Force Component

The Commander, Marine Corps Forces, Pacific (COMMARFORPAC) and Atlantic (COMMARFORLANT) are the Service component headquarters representing US Marine Corps matters directly to the combatant commander. The role of a Marine Service component under Commander, United States Pacific/Atlantic Fleet was retained only for specific naval service tasks. Headquarters, Marine Corps Forces, Pacific/Atlantic deploy as Level II component headquarters.

The Marine Corps Forces (MARFOR) Surgeon is the principal advisor to Commander, Marine Corps Forces (COMMARFOR) for all matters pertaining to HSS. The MARFOR Surgeon, in coordination with the plans and logistics staff within the G-4 (Marine Corps Forces, Pacific) or within Force Surgeon directorate/division (Marine Corps Forces, Atlantic), coordinates all HSS requirements and assets within the MARFOR on behalf of the COMMARFOR. Within the joint arena, HSS is coordinated by the respective combatant commander's component HSS Operations Center in theater, which may be US only or "combined" as in the case of Combined Marine Forces Commander (CMFC-Wartime) in the Korean theater of operations. The MARFOR Surgeon, via direct coordination with and support from the plans and logistics staff, is responsible for the following: ensures integration of levels of care; coordinate Joint, Combined, or Theater-specific HSS operations in theater; conducts liaison with combatant commander/component surgeons and dental officers for theater health service integration (regionalization, standardization, and interoperability), theater engagement; coordinates staff liaison for theater medical threat assessment and promulgates FHP guidance to MEFs/major subordinate commands; conducts validation of HSS requirements (i.e. medical logistics sustainability analyses, casualty estimates, Class VIII-equipment/supplies/blood, PM, medical intelligence, Medical Augmentation Program); monitors and advocates major subordinate commands' requirements to readily support integration into theater combat health support system (i.e. patient evacuation, medical regulating, and theater blood program); monitors and coordinates time-phased force and deployment data flow of MARFOR medical personnel (to include Navy MAP personnel) and medical equipment/supplies; effects liaison with theater integrated medical logistics managers and monitors readiness of MEF/major subordinate commands medical units via quarterly MEF/major subordinate commands readiness status reports (e.g. Status of Resources and Training System); monitors/coordinates blood supply and sustainment requirements with Theater Blood Program Officer.

All MEF/MAGTF Surgeons report all HSS matters and issues to the MARFOR Surgeon. The MARFOR Surgeon can expect to receive broad guidance and a general concept of the established HSS system from The Medical Officer of the Marine Corps (TMO) for exercising service competency and/or combatant commander's surgeon, for exercising functional competency in area of responsibility (AOR).

2004. The Marine Expeditionary Force

Medical Section of the Marine Expeditionary Force Special Staff

1 The medical section of the MEF staff consists of the MEF surgeon, medical plans officer, health
2 services administrative officer, PREVMEDO, and dental officer (assigned as an additional duty)
3 from dental battalion and enlisted personnel.

4 5 **Marine Expeditionary Force Surgeon**

6
7 The MEF surgeon functions as a special staff officer. The MEF surgeon advises the MEF
8 commander on matters relating to the health of the command. He is responsible for staff
9 supervision of medical training for medical and nonmedical personnel. The surgeon and
10 his/her staff determine internal HSS requirements, recommend the allocation of organic
11 medical resources, and establish priorities for medical support. The MEF surgeon deploys as
12 a member of the MEF commander's special staff to advise the commander on all professional,
13 administrative, personnel, and operational HSS matters. The MEF dental officer deploys with
14 the FSSG and works with the MEF surgeon in the planning and delivery of dental care to the
15 MEF.

16
17 Specific staff responsibilities include--

18
19 - Exercising staff review of medical activities throughout the MEF, including routine health care,
20 first aid, environmental sanitation, food service sanitation, and other PM activities affecting the
21 health of MEF, joint task force or combined joint task force.

22
23 - Ensuring medical Class VIIIA (Consumable and Equipment) & Class VIIIB (Blood and Blood
24 Products) are properly stored, issued, maintained, and available to organic medical facilities of
25 the force.

26
27 - Planning and supervising healthcare and patient movement.

28
29 - Advising force commander and staff on potential effects of NBC weapons on personnel,
30 equipment, water, and food.

31
32 - Recommending treatment procedures and ensuring that facilities for treatment of NBC
33 casualties are available.

34
35 - Evaluating food and water after exposure to chemical/biological agents or other contaminants,
36 to determine suitability for consumption.

37
38 - Examining and reporting on captured Class VIII.

39
40 - Providing technical supervision of all health care related training to both medical and non-
41 medical personnel within the MEF.

42
43 - Coordinating disease surveillance for the force with/through the force PREVMEDO.

44
45 - Providing HSS planning support.

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1 - Providing planning guidance and input regarding HSS to the MEF OPLAN.

2
3 - When not geographically collocated, the MEF dental officer will assign a senior dental officer
4 to the MEF staff as a temporary assignment to coordinate dental requirements.

5
6 **Marine Expeditionary Force Medical Plans Officer and Health Services Administrative**
7 **Officer**

8
9 The MEF medical plans officer and Navy administrative officer work directly under the G-4
10 staff. These officers assist the MEF surgeon with his duties, but especially with planning,
11 logistics, administrative coordination, record maintenance, and personnel administration. Also,
12 the health services administrative officer serves as the Navy Occupational Field Sponsor for all
13 Navy personnel issues for the commanding general (CG) via the Assistant Chief of Staff for
14 Manpower/Personnel (AC/S), G-1.

15
16 Specific staff responsibilities include--

17
18 - Conducting current and future health services planning and coordinating the MEF HSS effort in
19 future and current operations.

20
21 - Implementing, monitoring, and evaluating medical intelligence in support of operational and
22 contingencies plans.

23
24 - Coordinating medical support including Class VIII and personnel.

25
26 **Marine Expeditionary Force Preventive Medicine Officer**

27
28 The MEF PREVMEDO is a physician in either general preventive medicine/public health or
29 occupational medicine. The PREVMEDO develops MEF level PM policies for OPLANS,
30 training, and in-garrison activities and coordinates the PM personnel in these activities. A major
31 focus of the PM activity is to conduct routine and operational disease surveillance to monitor the
32 health and deployability of the force. Other duties include conducting disease outbreak
33 investigations and using biostatistical analysis of health trends in the MEF when required.

34
35 **2005. The Marine Division**

36
37 **Medical Section of the Division Special Staff**

38
39 The medical section of the division staff consists of the division surgeon; medical planner, EH
40 officer, division psychiatrist and enlisted personnel assistants.

41
42 **Division Surgeon**

43
44 The division surgeon functions as a special staff officer under the cognizance of the Assistant
45 Chief of Staff for Logistics (AC/S G-4). The division surgeon advises the division commander
46 on matters relating to the health of the command. He provides professional advice to the

3 Aug 04

1 commander on HSS matters. He is responsible for staff supervision of medical training for
2 medical and nonmedical personnel. The surgeon and the AC/S G-4 determine internal HSS
3 requirements; recommend the allocation of organic medical resources, and priorities for medical
4 support.

5
6 Specific staff responsibilities include--

7
8 - Exercising staff responsibilities of medical activities, including routine health care, first aid,
9 and PM activities affecting the health of the command.

10
11 - Monitoring proper handling of supplies and equipment organic to the division.

12
13 - Supervising medical treatment and evacuation.

14
15 - Recommending treatment procedures for the treatment of NBC casualties.

16
17 - Examining and reporting on captured medical equipment and supplies.

18
19 - Providing technical supervision of all healthcare related training to both medical and
20 nonmedical personnel within the division.

21
22 **Division Medical Planner**

23
24 The division medical planner advises the AC/S G-4 on medical planning issues. Supports the
25 division surgeon with medical readiness issues and maintains and develops medical contingency
26 plans in support of the area of operations.

27
28 Specific staff responsibilities include--

29
30 -Coordinating with the general staff in developing medical contingencies plans in support of area
31 operations.

32
33 -Collecting and maintaining medical information reflecting requirements and limitations due to
34 division or joint arenas.

35
36 -Organizing a medical support consisting of Class VIII supplies and personnel for area
37 operations.

38
39 -Assisting the division surgeon in the performance of his/her duties.

40
41 **Division Environmental Health Officer**

42
43 Assists the division surgeon in the performance of his/her duties. Responsibilities include
44 conducting disease and environmental surveillance, developing health threat assessments and
45 countermeasures, and risk communication to ensure commanders have the most complete
46 situational awareness of potential and actual health threats, risks and hazards.

- 1
2 Specific staff responsibilities include--
3
4 -Anticipating and monitoring EH threats. Evaluating and planning appropriate responses to
5 environmental and occupational health stressors. Monitoring immunization status,
6 chemoprophylaxis and compliance with environmental preventive measures. Preparing and
7 providing briefs on real and potential EH threats to mission accomplishment, health and safety of
8 personnel, and required preventive measures.
9
10 -Participating in planning conferences to ensure EH threats are adequately addressed in the
11 OPLAN medical annex.
12
13 -Ensuring necessary EH controls are planned and carried out for food procurement, potable
14 water, waste disposal, general field sanitation, personal hygiene, vector control, agricultural
15 washdowns and other necessary public health measures.
16
17 -Conducting pre-site assessments (mission dependent factoring in the following variables: troop
18 strength, duration, activities; provide alternatives to non-ideal sites).
19
20 -Evaluating health risks at potential sites and make recommendations to prevent or lower risks.
21
22 -Providing continuous surveillance of the force and DNBI threats (through active data collecting,
23 analyzing and reporting to higher authorities) and recommending countermeasures, including
24 vaccines, chemoprophylaxis and environmental preventive measures. Conducting disease
25 outbreak investigations.

26 27 **2006. The Infantry Regiment**

28
29 The regimental medical section is composed of one medical officer and seven hospital
30 corpsmen. This section is organic to headquarters company of the regiment and provides HSS
31 for regimental headquarters personnel. When a BAS is located near the regimental
32 headquarters, it may not be necessary to establish a regimental aid station. In such an event,
33 regimental HSS personnel should augment the BAS, and regimental headquarters personnel
34 should use the combined facility.
35

36 **Regimental Surgeon**

37
38 The regimental surgeon is a special staff officer who exercises staff supervision over HSS
39 functions in the regiment and advises the regimental commander on health services of the
40 command.
41

42 **HSS Sections of Separate Combat Support Battalions**

43
44 Composition of HSS sections in separate battalions varies in proportion to total battalion strength
45 and expected casualty rates. When detachments or elements of separate battalions operate in
46 areas remote from the parent unit, HSS personnel are assigned, as required, from the parent

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1 battalion.

2

3 **2007. The Infantry Battalion**

4

5 Infantry battalions with a weapons company and three rifle companies assigned have organic
6 HSS assets with a table of organization (T/O) of two medical officers and 65 hospital
7 corpsmen. These assets constitute the medical platoon of the battalion's H&S company. The
8 battalion surgeon, with concurrence of the battalion commander, assigns medical personnel to
9 line and weapons companies, as needed.

10

11 **Battalion Surgeon**

12

13 This special staff officer advises the battalion commander on the health of the battalion and
14 performs other duties as the battalion commander may direct. Other duties include
15 supervising patient treatment, planning, organizing, and teaching the battalion HSS staff.
16 The surgeon directs activities of the battalion medical section and is responsible for--

17

18 - Organizing battalion medical section.

19

20 - Assigning medical personnel to duties.

21

22 - Preparing the health services appendix to the battalion's OPLAN.

23

24 - Supervising and assisting in collection, care, treatment, and evacuation of sick and
25 wounded personnel.

26

27 - Planning the management of medical supplies and equipment, and testing the resupply
28 system to ensure sufficient, but not excessive, supply levels for combat operations.

29

30 - Recommending sites for battalion medical installations.

31

32 - Maintaining medical records and preparing reports.

33

34 - Ensuring medical and sanitation inspections are conducted in accordance with Naval
35 Medical (NAVMED) Publication 5010, *Manual of Naval Preventive Medicine*.

36

37 - Training medical department personnel in subjects relating to HSS.

38

39 - Supervising the instruction for nonmedical personnel in personal hygiene, preventive
40 medicine, field sanitation, extraction of casualties from vehicles, litter bearing, and first
41 aid/buddy aid.

42

43 - Developing plans and procedures for handling contaminated casualties.

44

45 - Developing medical standing operating procedures (SOPs) consistent with unit and higher
46 guidance.

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46

Assistant Battalion Surgeon

The assistant battalion surgeon directs the operation of the BAS and performs other duties as may be assigned by the battalion surgeon.

2008. Medical Platoons

In combat, company and platoon corpsmen perform procedures, as necessary, to prevent illness and injury, to support life, prevent further injury, and stabilize casualties for evacuation to facilities that can continue their care. Such procedures include establishing an airway, restoring respiration, controlling hemorrhage, treating for shock, applying dressings, relieving pain, and initiating intravenous fluid administration.

Hospital corpsmen assigned to company and platoon levels perform best when afforded the opportunity to remain with the same unit for the duration of their tour with Marine operating forces. This allows them to become acquainted with members of their unit, to gain their confidence, and to become an integral part of the team. Hospital corpsmen assigned to companies of the infantry battalion are normally distributed as follows:

- A team of 10 hospital corpsmen is normally assigned to a rifle company or a weapons company. The senior hospital corpsman, designated the company corpsman, is assigned to company headquarters. He trains and supervises platoon corpsmen and litter bearers in the performance of their duties. To plan adequate medical support at his level of responsibility, he must be thoroughly briefed on the OPLAN.
- The remaining hospital corpsmen assigned to a company are designated platoon corpsmen.

Litter Bearers

While not part of the battalion medical section, litter bearers operate under supervision of the battalion surgeon. Litter bearers are Marines designated by the commander to perform casualty collection and evacuation within the unit. Litter bearers should be designated well in advance of an operation, so they can be trained in casualty handling procedures. When demand for litter bearers is so great that a battalion cannot provide them without affecting its combat efficiency, the battalion commander should request additional personnel from the regimental commander.

The number of litter bearers required will vary with the situation, but 24 is normally considered the minimum for an infantry battalion. Four bearers may be required per litter if distances are great or the terrain difficult.

Indigenous civilians may be employed as litter bearers, if available and properly supervised.

2009. Battalion Aid Station

1 **Mission**

2
3 The mission of the BAS is to provide direct Level I medical support to company and platoon
4 corpsmen, and to provide an advanced level of care in the overall effort to sustain the combat
5 force. See figure 2-2. The BAS is designed to provide HSS under combat conditions. It will
6 operate as far forward as the tactical situation permits.

7
8 **Tasks**

9
10 Return patients to duty when possible.

11
12 Conduct triage.

13
14 Treat casualties to minimize mortality, prevent further injury, and stabilize for further
15 evacuation.

16
17 Record all casualties received, treated, and prepare casualty reports.

18
19 Provide temporary shelter in conjunction with emergency treatment.

20
21 Transfer evacuees from aid station to ambulance, helicopter, or other evacuation transportation.

22
23 Initiate medical treatment of combat stress casualties.

24
25 Provide routine sick call for battalion personnel.

26
27 Maintain health records of battalion personnel.

28
29 Provide personnel replacement and medical resupply (replenishment) for company medical
30 platoons.

31
32 Conduct routine disease and injury surveillance as an outcome measure of command preventive
33 programs.

34
35 Implement Preventive Medicine Petty Officer Program to ensure PM program elements are
36 accomplished.

37
38 **Concept of Organization**

39
40 The BAS is manned by hospital corpsmen of the battalion medical platoon under the direction of
41 the assistant battalion surgeon. The aid station element is capable of establishing and operating
42 two aid stations when necessary (the second headed by the battalion surgeon).

43
44 **Concept of Employment**

45
46 BASs are the most forward deployed and the most mobile of medical treatment facilities

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1 supporting MAGTFs. BASs render support to GCEs from positions as close to forces in contact
2 as the tactical situation permits. Marine Corps concepts of expeditionary maneuver warfare
3 require a high degree of mobility in BASs supporting combat operations.
4

UNITS IN SERVICE: I MEF 45 II MEF 45
III MEF 30 MARFORRES 30

GENERAL CHARACTERISTICS:

Organization: Aid stations are distributed as 2 at the MEF, 23 at the division, 1 at the FSSG, and 1 per Marine wing support squadron. Normally divided into 2 sections, with 1 officer and 10 enlisted, plus 4 medical teams of 11 enlisted each.

Command and Control: The medical officer at the BAS provides command and control.

MEDICAL CHARACTERISTICS:

Provides Level I, primary resuscitative care for approximately 50 casualties.

Erect Time: 1 hour
Maximum Patient Holding Time: 6 hours

5 **Figure 2-2. Basic Aid Station Characteristics.**

6
7 **2010. The Marine Aircraft Wing**

8
9 The Marine aircraft wing (MAW) is the highest level tactical aviation command in the Marine
10 operating forces. A MAW is comparable to a Marine division in command responsibility, and is
11 normally commanded by a major general. Each wing is a balanced combat force, primarily
12 designed to support one Marine division in an amphibious operation or a land operation. Marine
13 aviation groups are organized into three types: Marine air control group, (MACG), Marine wing
14 support group (MWSG), and the Marine aircraft group (MAG). Each group is comparable to an
15 infantry regiment in terms of command responsibility, and is normally commanded by a colonel.
16 The larger organic medical support elements of the MAW are located in the Marine wing support
17 squadron of the MWSG. See MCRP 5-12D, *Organization of Marine Corps Forces* for more
18 information.
19

20 **Medical Section of the Wing Staff**

21
22 The medical section of the wing staff consists of the wing surgeon, medical administrative
23 officer, EH officer, and enlisted personnel assistants.
24

25 **Wing Surgeon**

26
27 The wing surgeon performs general duties as a special staff officer and a department head,
28 under cognizance of the chief of staff. The wing surgeon advises the aircraft wing
29 commander on matters relating to the health of the command. He develops the command's

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1 medical policies, and provides professional advice to the commander and his staff. He is
2 responsible for staff supervision of medical subjects training for the command's medical and
3 non-medical personnel. The wing surgeon determines internal medical support requirements,
4 allocates organic medical resources, and establishes priorities for medical support.

5
6 Specific staff responsibilities include-

7
8 - Staff supervision of medical activities throughout the command, including routine sick call,
9 medical treatment, flight physical examinations, and other activities affecting the health of the
10 command.

11
12 - Ensuring that medical supplies and equipment are properly stored, issued, maintained, and
13 available to all organic health service support elements (HSSEs) of the wing.

14
15 - Ensuring that adequate first aid supplies are available.

16
17 - Planning and supervising the system of medical treatment and casualty evacuation.

18
19 - Advising the wing commander and staff on potential effects of NBC weapons on personnel,
20 equipment, water, and food.

21
22 - Prescribing treatment procedures and ensuring that facilities for treatment of contaminated
23 casualties are available.

24
25 - Evaluating food and water after exposure to chemical/biological agents or other contaminants,
26 to determine suitability for consumption.

27
28 - Coordinate disease and injury surveillance with all wing components providing medical care
29 through the EH officer.

30 **Wing Medical Administrative Officer**

31
32
33 Assists the wing surgeon in the performance of his duties. Primarily concerned with medical
34 planning, logistics, coordination of administrative functions, maintenance of records, and
35 personnel administration.

36 **Marine Aircraft Groups**

37
38
39 The group medical section is composed of one medical officer and two hospital corpsmen. This
40 section is organic to the MAG headquarters and provides limited HSS to its personnel. Since a
41 MAG headquarters is generally collocated with a Marine wing support squadron (MWSS), MAG
42 the MWSS will provide the majority of the health services. MAG HSS personnel should
43 augment the MWSS aid station.

44 **Marine Aircraft Group Surgeon**

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1 The MAG Surgeon is a special staff officer who exercises staff supervision over HSS and
2 aeromedical functions in the MAG, including planning for deployments, coordinating with the
3 MAG's supporting MWSS, preparing medical readiness, and advising the MAG commander on
4 health services of the command.

6 **Marine Wing Support Group**

8 The MWSG medical section is composed of one medical officer and two hospital corpsmen.
9 This section is organic to the MWSG headquarters and provides limited HSS to its personnel.
10 MWSG personnel should augment one of their subordinate MWSS expeditionary aid stations.

12 **Marine Wing Support Group Surgeon**

14 The MWSG surgeon is a special staff officer who exercises staff supervision over HSS in the
15 MWSG, and has similar responsibilities regarding planning for expeditionary HSS. The MWSG
16 surgeon is directly concerned with logistic support of deploying aid stations, laboratory,
17 pharmacy, and x-ray authorized medical allowance lists (AMALS).

19 **Marine Wing Support Squadron**

21 Each MAW has four MWSSs, as a part of the MWSG. Each MWSS is designed to provide
22 aviation ground support functions for one fixed-wing or rotary-wing expeditionary airfield,
23 supporting five to eight flying squadrons (80 to 95 aircraft). Organic to each MWSS are medical
24 officers, hospital corpsmen, and class VIII equipment and supplies to establish a squadron aid
25 station capable of providing medical care to one Marine expeditionary airfield, with attached
26 flying squadrons. See figure 2-3. A dental detachment from dental battalion may be provided in
27 support of each MWSS. MWSS aid stations form the primary medical facilities of the MAW. In
28 addition to routine sick call, each MWSS aid station provides aviation medicine, PM (including
29 routine injury and disease surveillance), laboratory, x-ray, and pharmacy services.

31 **Squadron Medical Sections**

33 Each flying squadron has a medical section consisting of a flight surgeon and three or four
34 hospital corpsmen, depending on squadron type. They are capable of conducting routine sick call
35 as well as aviation medical functions. However, by virtue of the centralization inherent in airfield
36 organization and support, squadron medical personnel usually find it more convenient and
37 efficient to work in conjunction with the MWSS aid station.

39 **Marine Air Control Group and Subordinate Units**

41 The medical section of the MACG headquarters is composed of two medical officers and one
42 hospital corpsman. The MACG surgeon advises the MACG commander on issues concerning
43 the health of the group and its subordinate units and the supervision of the other 11 hospital
44 corpsmen within the group. The MACG and its subordinate units are dedicated to the control of
45 aircraft and missiles in support of the MAGTF. These units and assigned medical personnel
46 include a Marine tactical air command squadron, a Marine air control squadron, a Marine air

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1 support squadron, and a low altitude air defense battalion. These units depend on the MWSS aid
2 station for all but the most routine healthcare support.

3
4 **Medical Care Above Organic Capability**

5
6 Either all or part of the ACE may be remotely located from the MAGTF CSSE. Medical care
7 beyond organic capability of the CE must be provided from medical battalion assets or from
8 other Service (joint or combined) medical facilities. Such contingencies must be adequately
9 addressed in the MAGTF OPLAN or OPOD.

MEDICAL DIVISION, MARINE WING SUPPORT SQUADRON

MISSION: Provides Level I medical care in support of Marine aircraft wings.

UNITS IN SERVICE:

1st MAW 2 2d MAW 4
3d MAW 4 4th MAW 4

GENERAL CHARACTERISTICS

Organization: Marine wing support squadrons and their division distributed as follows: One per Marine aircraft group.

Command and Control: The medical officer at the medical division reports directly to the Commanding Officer of the Marine wing support squadron.

Size: (Mobilization): 4- Navy Officers, 0 - Marine Corps Officers,
33- Navy Enlisted (RW) 0 - Marine Corps Enlisted
32- Navy Enlisted (FW)

GENERAL MEDICAL CHARACTERISTICS

Provides Level I, Primary Resuscitative care for approximately 50 casualties.

Erect Time 1 hr
Maximum Patient Holding Time 6 hrs

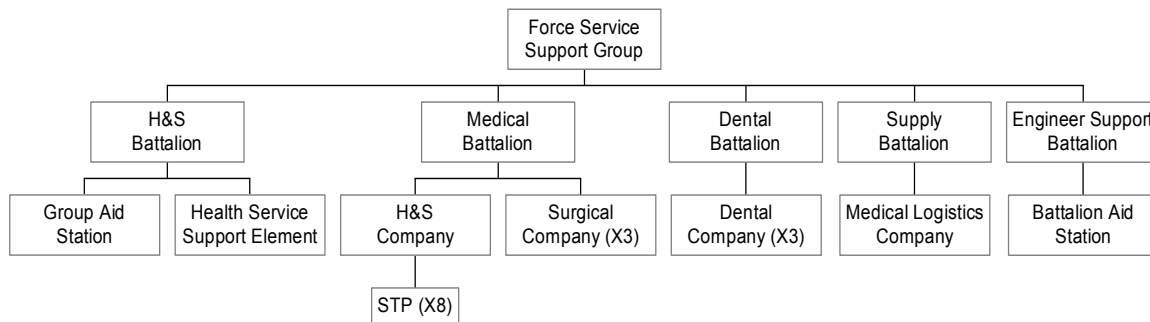
Legend: fixed-wing (FW) rotary-wing (RW)

Figure 2-3. Marine Wing Support Squadron Medical Division Characteristics.

2011 The Force Service Support Group

HSS organic to the FSSG may be divided into elements designed to provide internal support to the FSSG and elements designed to provide support to MAGTF elements external to the FSSG. See figure 2-4.

1



2

3

Figure 2-4. HSS in the FSSG.

4

Internal Support

6

Group Surgeon. The group surgeon is a special staff officer, under cognizance of the AC/S G-4. They advise the FSSG commander on matters relating to the health of the command, and supervise the operation of the group aid station (GAS). In respect to organic medical elements designed to support the FSSG, the group surgeon's duties and responsibilities parallel those outlined for the division surgeon in paragraph 2005.

12

Group Aid Station. The GAS provides organic HSS to the FSSG headquarters. Under the integrated logistic capability the operation of the GAS is under the cognizance of the commanding officer of the medical battalion.

16

External Support

18

Health Service Support Officer. The HSS officer (HSSO) is a special staff officer under the cognizance of the assistant chief of staff for operations (AC/S G-3) of the FSSG. He develops a capability response in manpower, equipment, and supplies to address the stated health service requirements of the MEF and those requirements of its major subordinate commands that exceed their organic capabilities. He reviews HSS requirements for OPLANs, supporting logistics, and CSS annexes. With other staff officers, the HSSO evaluates needs and develops FSSG HSS responses that meet support requirements beyond the organic capability of the GCE and ACE. Should the HSSO, in assessing HSS tasking, recognize needs beyond FSSG capabilities, he will advise the AC/S G-3.

28

Specific tasks of the HSSO include--

30

Determining HSS personnel and equipment required to support specific OPLANs.

32

Collecting operationally significant medical information in the field and reporting this information to the Armed Forces Medical Intelligence Center (AFMIC) through the G-2/S-2 section.

36

Maintaining medical intelligence files and reports.

37

1
2 Serving as officer in charge of medical support section, CSS operations center in MEF or FSSG
3 exercises/operations.

4
5 Coordinating all medical/dental inter-Service support agreements for the FSSG.

6
7 **Health Service Support Element.** The HSSE plays a vital role in planning operational medical
8 support. The HSSE is within the AC/S G-3 operations section and is supervised by the HSSO.
9 The mission of the HSSE is to coordinate requirements for HSS to MAGTFs and units external
10 to the FSSG.

11
12 **Environmental Health Officer**

13
14 Reports to the commanding officer of the medical battalion. The EH officer's responsibilities
15 include conducting disease and environmental surveillance, developing health threat assessments
16 and countermeasures, and risk communication to ensure commanders have the most complete
17 situational awareness of potential and actual health threats, risks and hazards. Specific staff
18 responsibilities specifically include--

19
20 Anticipating and monitoring EH threats. Evaluating and planning appropriate responses to
21 environmental and occupational health stressors. Monitoring immunization status,
22 chemoprophylaxis and compliance with environmental preventive measures to ensure readiness
23 of the operational forces

24
25 Preparing and providing briefs to CG and staff on real and potential EH threats to mission
26 accomplishment, health and safety of personnel, and required preventive measures utilizing
27 global medical intelligence products.

28
29 Participating in planning conferences and processes for all major regional contingency and
30 humanitarian operations ensuring EH threats are adequately addressed in the OPLAN medical
31 annex. Reviewing and addressing agricultural washdown program issues.

32
33 Consulting and advising G-1 through G-4 to ensure necessary EH controls are planned and
34 carried out for food procurement, potable water, waste disposal, general field sanitation, personal
35 hygiene, vector control, agricultural washdowns and other necessary public health measures to
36 contribute to successful deployment or operation.

37
38 Conducting pre-site assessments (mission dependent factoring in the following variables: troop
39 strength, duration, activities; provide alternatives to non-ideal sites).

40
41 Evaluating health risks at potential sites, including any needed environmental sampling and
42 make recommendations to prevent or lower the risks.

43
44 Evaluating food and water after exposure to chemical/biological agents or other contaminants, to
45 determine suitability for consumption.

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1 Providing continuous surveillance of the force and DNBI threats (through active data collecting,
2 analyzing and reporting to higher authorities) and recommending countermeasures, including
3 vaccines, chemoprophylaxis and environmental preventive measures. Conduct disease outbreak
4 investigations.

5

6 **2012. Medical Battalion**

7

8 Within the MEF, the medical battalion is the only source of Level II medical support available.
9 See figure 2-5. Their primary purpose is to provide initial resuscitative and surgical treatment
10 that, if not performed, could lead to death or loss of limb. Emergency care that includes initial
11 resuscitation is continued and if necessary, additional emergency measures are instituted which
12 do not go beyond immediate necessities. These units have a short term holding capability. In
13 garrison and during routine deployments, the medical battalions use organic staff. When
14 increased medical manning levels are required for contingencies or training exercises units can
15 be brought to wartime manning through MAP.

16

UNITS IN SERVICE:

MARINE CORPS FORCES, PACIFIC

1st Medical Battalion

3rd Medical Battalion

MARINE CORPS FORCES, ATLANTIC

2nd Medical Battalion

MARINE CORPS FORCES RESERVE

4th Medical Battalion

GENERAL CHARACTERISTICS

Organization: Three (3) Surgical Companies and one (1) Headquarters and Service
Company per Medical Battalion

Command and Control: Medical Battalion Commanding Officer reports to the
Commanding General of the Force Service Support Group

Size: (At mobilization): 208 - Navy Officers, 6 - Marine Corps Officers
552 - Navy Enlisted, 199 - Marine Corps Enlisted

GENERAL MEDICAL CHARACTERISTICS

Operating Room (sections)	9 (1 st and 2 nd Medical Battalion) 6 (3 rd and 4 th Medical Battalion)
Laboratories	6 (2 sections per surgical company)
X-ray	6 (2 sections per surgical company)
Pharmacy	6 (2 sections per surgical company)
Flow-through Cots	260

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FRSS 4 (1st and 2nd Medical Battalion)
2 (3rd and 4th Medical Battalion)

Shock Trauma Platoons 8 (1st and 2nd Medical Battalion)
6 (3rd and 4th Medical Battalion)

Maximum Patient Holding Time--72 hrs (surgical company)

1
2 **Figure 2-5. Medical Battalion Characteristics.**
3

4 **Mission**

5
6 The medical battalion provides direct and general HSS to the MEF in order to sustain the combat
7 effort.
8

9 **Tasks**

10
11 Provide Level II HSS, to include initial resuscitative surgery and temporary holding of
12 casualties, to the MEF.
13

14 Provide patient evacuation services for the MEF and smaller MAGTFs.
15

16 Evaluate, recommend, and apply PM measures for the prevention and control of disease and to
17 eliminate or reduce other potential EH hazard risks.
18

19 Assist in the collection of operationally significant medical information in the field and reporting
20 this information to AFMIC through the HSSO.
21

22 Assist in the analysis and dissemination of medical intelligence.
23

24 Provide HSS at casualty decontamination and treatment stations.
25

26 Assist in identification of human remains and preparation of death certificates, as required, in
27 support of graves registration programs.
28

29 Provide HSS for management of mass casualties and combat stress casualties.
30

31 **Concept of Organization**
32

33 The battalion is organized to plan and supervise the HSS functions of the MEF, as coordinated
34 with the HSS staff. 1st and 2nd Medical Battalions have three surgical companies and eight STPs
35 while 3rd and 4th Medical Battalions have two surgical companies and six STPs. A dental
36 detachment augments each surgical company to provide treatment and to augment medical
37 support as needed.

Forward Resuscitative Surgery System (FRSS) is one of the smallest units for provision surgical care to combat casualties. The FRSS is capable of providing a spectrum of trauma care ranging from triage/advance trauma life support/stabilization through salvage surgical procedures. The team is composed of eight personnel. FRSS staffing is constrained to the existing medical battalion T/O. In other words, the FRSS is task-organized using manpower from the surgical companies. See figure 2-6 for task organization. The FRSS can care for a total of five patients at any one time (two pre-operative, one intra-operative, and two post-operative). Total equipment is approximately 6,300 pounds, excluding personal gear and environmental control units and a total volume of 640 cubic feet. The fielding plan for FRSS is as follows—

- I MEF (4)
- II MEF (4)
- III MEF (2)
- MARFORRES (2)
- MPF (3)

Note: One FRSS per surgical company, an additional one each for I & II MEF to support a Marine expeditionary brigade (MEB), and one each per MPF.

The H&S company contains STPs that have 10 patient holding beds each. Each surgical company contains 60 beds and 3 operating rooms. The surgical companies are classified as Level II medical treatment facilities. They are distinguished from level III facilities by their lack of definitive treatment capabilities.

The battalion is structured to facilitate task organization for operations conducted in support of the MEF, MEB, or any combination of smaller MAGTFs operating in widely separated geographical areas.

Billet	NOBC	NEC
General Surgeon	0214	
General Surgeon	0214	
Anesthesiologist	0118	
Critical Care Nurse	0904	
Independent Duty Corpsman		8425
Operating Room Technician		8483
Operating Room Technician		8483
Field Medical Technician		8404

Figure 2-6. FRSS Task Organization.

Command and Control. The battalion commander exercises command and control of the battalion through the battalion staff and the company commanders. He directs and controls command support functions relating to operations, administration, and logistics/CSS for the battalion.

1 **Firepower.** Organic firepower capability is limited to individual and crew-served weapons for
2 personal security and for defense of medical installations in accordance with applicable
3 international law.

4
5 **Mobility.** Organizational vehicles of the battalion, transportable by fixed-wing aircraft and by
6 heavy-lift rotary wing aircraft, provide limited mobility. Transportation support is required from
7 the transportation support battalion to effect displacement.

8
9 **Communications.** The battalion is capable of organic single-channel communications support.
10 Communications support, as required, is provided by the communications company of the H&S
11 battalion.

12
13 **Intelligence.** Intelligence support, as required, is provided by the H&S battalion.

14
15 **Security.** The battalion has a limited organic security capability. Security support, as required, is
16 provided by the H&S battalion.

17 **Concept of Employment**

18
19
20 The battalion units are task-organized to support the mobility and flexibility requirements of the
21 MAGTFs. The medical battalion constitutes appropriately sized and configured medical
22 treatment facilities in support of specific MAGTFs.

23
24 **Shock Trauma Platoons, H&S Company.** STPs are the most mobile of medical battalion
25 units, although they are a Level I facility they are an extension of a surgical company. They are
26 designed to provide direct support to medical elements organic to the GCE and ACE of a
27 MAGTF. Where required by the OPLAN, STPs lend themselves to being task-organized for
28 support of Marine expeditionary unit (MEU) and MEB-size MAGTFs. They may be combined
29 or collocated to increase capability or relieve a BAS of its patients, allowing the BAS to follow
30 in trace of their combat elements or as the advance element for the location of a surgical
31 company. Another way an STP may be employed is as part of a mobile CSS detachment. In
32 Operation Iraqi Freedom (OIF), STPs were combined with FRSSs to provide triage and pre/post
33 operative care. The STPs also provided communications and patient movement support to the
34 FRSSs.

35
36 **Forward Resuscitative Surgery System.** The FRSS will be employed when the tactical
37 situation precludes use of a surgical company ashore and when rapid casualty transport to CRTS,
38 or to land-based surgical facilities, is unavailable. It will be used in support of one or more
39 maneuver elements, augmenting an STP or BAS. The FRSS does not have the capability to hold
40 patients more than four hours and must be collocated with an STP, BAS, or ward section from
41 the surgical company for initial triage, communications, security, and patient movement. It can
42 provide for a minimum of 18 casualties over a period of 48 hours before requiring resupply and
43 relief of personnel. The FRSS is not designated to bring combat casualty care *de novo* to an area
44 that has no other medical units, but rather to provide a significant increase in the capacity and
45 capability of any medical unit that is present. It can be transported using two high mobility
46 multipurpose wheeled vehicles (HMMWVs) (M-997 and M-998) towing M-101 trailers, via

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1 rotary or fixed wing tactical aircraft, or by surface vessels. During OIF, FRSS teams were
2 designated as either as “Jump” or “Forward” HSS capabilities. Forward FRSS teams with STPs
3 were attached to CSSEs and provided Level II HSS as far forward as the tactical situation
4 permitted. Forward FRSS teams with STPs moved with the tactical units they supported and
5 were never subsumed in their respective company. Jump FRSSs with an STP and a ward section
6 served as the forward echelon of a surgical company and provided Level II HSS until the
7 remainder of the surgical company displaced to the forward support area. Once the surgical
8 company was fully established at the support area, the Jump FRSS along with supporting HSS
9 capabilities could leapfrog forward to the next support area, if necessary.

10
11 **Surgical Company.** By virtue of its larger size, a fully deployed surgical company is best suited
12 for a general support role from a location less likely to require displacement and relocation.
13 However, the surgical company’s structure and organization lends it to dividing into independent
14 elements for deployment and therefore can also be utilized to provide direct support to operating
15 forces through use of the STPs. For example, the triage/evacuation platoon of a company may
16 be deployed with the assault echelon (AE) of a combat force, while the holding and surgical
17 platoons are placed in the assault follow-on echelon (AFOE). Upon entry, the remaining units of
18 the surgical company may join the triage/evacuation platoon, or the company may establish in a
19 different location.

20
21 **Levels of Patient Care.** STPs provide Level I and FRSS and surgical companies provide Level
22 II patient care. STPs provide the emergency stabilization care required for evacuation. Surgical
23 company capabilities are built around the surgeons contained in their tables of organization. If
24 tactical situations dictate, an STP may be augmented with an FRSS or a surgical section from the
25 surgical company to provide a forward surgical capability.

26 27 **Logistic Capabilities**

28
29 **Supply.** The battalion is capable of organic supply support. The medical logistics company of
30 the supply battalion provides class VIII supply support. Medical Logistics Company maintains
31 the capability sets for the battalion while in garrison and provides supply assistance as required.
32 It is the medical battalion commander's responsibility to validate that authorized allowances are
33 in deployable status at all times. However, it is supply battalion’s obligation to ensure
34 authorized allowances are properly ordered and maintained.

35
36 **Maintenance.** The battalion is capable of organizational (1st echelon) maintenance on organic
37 equipment and organizational (2d echelon) maintenance on organic equipment, except for
38 medical equipment. The medical logistics company of the supply battalion provides
39 organizational (2d echelon) and intermediate (3d and 4th echelon) maintenance support for
40 medical equipment and maintains the AMALs. Intermediate (3d and 4th echelon) maintenance
41 support for nonmedical equipment is provided by the maintenance battalion.

42
43 **Transportation.** Capable of organic transportation for command and administrative purposes.
44 Also capable of organic transportation for evacuation of casualties by ground ambulance from
45 forward medical elements and transfer of patients to medical treatment facilities in other CSS
46 areas (CSSAs).

1
2 **General Engineering.** Engineering support, as required, is provided by the engineer support
3 battalion.

4
5 **Health Services.** Capable of organic medical support. Routine sick call is provided by the
6 GAS, H&S battalion within the FSSG. Dental support is provided by the dental battalion.

7
8 **Services.** Services support, as required, is provided by the service company of the H&S
9 battalion.

10
11 **Messing.** The battalion is capable of limited food service support. When collocated with the
12 dental battalion, the medical battalion provides limited food service support for both battalions.
13 Messing capabilities can be augmented by the H&S battalion within the FSSG.

14
15 **Note:** To clarify this capability statement, it is important to understand that medical battalions
16 have no equipment or consumable supplies designed to provide routine sick call or day-to-day
17 health care to battalion personnel. However, it is reasonable to expect that medical battalion
18 personnel assigned to, or located with, a deployed STP or surgical company will receive medical
19 care from that facility.

20 21 **2013. Headquarters and Service Company**

22
23 The company consists of the battalion headquarters S-1 personnel/administration, S-2/S-3
24 intelligence and operations, S-4 logistics, S-6 communications sections; a chaplain section; a PM
25 section, and STPs.

26 27 **Mission**

28
29 To provide command, control and command support functions for medical battalion. Provide
30 collecting, clearing, and evacuation of casualties from supported MEF elements through the
31 STPs. Provide comprehensive PM services to all supported units.

32 33 **Tasks**

34
35 Provide administrative, organic supply, light motor transportation, and maintenance support to
36 the battalion.

37
38 Provide limited medical evacuation for the battalion.

39
40 Provide medical data coordination for the battalion.

41
42 Provide medical department personnel, as required, to the headquarters elements of CSS
43 detachments.

44 45 **Concept of Organization**

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1 Organized to plan, coordinate, and supervise the command support functions for the battalion.
2 It is structured to facilitate task organization for operations conducted by the battalion in
3 support of MAGTF operations.

4
5 **Command and Control.** The company commander directs and controls command support
6 functions relating to operations, administration, and logistics/CSS for the company.

7
8 **Firepower.** Organic firepower capability is limited to individual and crew-served weapons for
9 personal security and defense of the medical installations in accordance with applicable
10 international law. Marine Corps personnel assigned to this company are classified as
11 noncombatants under the provisions of international law.

12
13 **Mobility.** Organizational vehicles of the company are helicopter transportable and provide
14 limited mobility. Transportation support is required from the transportation support battalion to
15 effect displacement.

16
17 **Communications.** The company is capable of internal, single-channel communications.
18 Communications support, as required, is provided by the communications company of the H&S
19 battalion.

20 21 **Concept of Employment**

22
23 May be employed in a single CSSA to provide command and control facilities and administrative
24 and service support for the battalion. It has limited capability to establish headquarters elements
25 for operation in two separate CSSAs. Service platoon and communications section detachments
26 may be assigned to augment surgical companies.

27 28 **Logistic Capabilities**

29
30 **Supply.** The company is capable of organic supply support. The medical logistics company of
31 the supply battalion provides class VIII supply support as required.

32
33 **Maintenance.** The company is capable of organizational (1st and 2d echelon) maintenance on
34 organic equipment. Intermediate (3d and 4th echelon) maintenance support for nonmedical
35 equipment, as required, is provided by the maintenance battalion and for medical equipment, is
36 provided by the medical logistics company of the supply battalion.

37
38 **Transportation.** The company is capable of organic transportation support for command and
39 administrative purposes.

40
41 **General Engineering.** Engineering support, as required, is provided by the engineer support
42 battalion

43
44 **Health Services.** Medical support is provided by H&S battalion, and dental support is provided
45 by the dental battalion.

46

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1 **Services.** Services support, as required, is provided by the service company of the H&S
2 battalion.

3
4 **Messing.** The company is capable of limited organic food service support and, as required,
5 providing limited food service support to the dental battalion. Messing capability can be
6 augmented by the H&S battalion, or by the supported CSSE.

7
8 **2014. Shock Trauma Platoon, Headquarters and Service Company**

9
10 **Mission**

11
12 Provide direct medical support to the MEF, to include collecting, clearing, and evacuation of
13 casualties from supported MEF elements, and medical treatment facilities for resuscitative
14 treatment care and temporary holding (12 hours) of casualties.

15
16 **Tasks**

17
18 Establish and operate clearing stations, as required.

19
20 Establish medical treatment facilities for resuscitative treatment and temporary holding of
21 casualties.

22
23 Provide and coordinate medical evacuation.

24
25 Provide medical support to personnel of other services and coalition forces as provided in
26 applicable regulations and agreements, and humanitarian care as required by international law.

27
28 **Concept of Organization**

29
30 The STP is a small, self-mobile HSS capability of the medical battalion, and is the first medical
31 treatment facility of the MAGTF in support of the BAS. The STPs are structured to facilitate
32 task organization for operations conducted by the battalion in support of the MEF, the MEB, or
33 any combination of smaller MAGTFs. The platoon consists of a stabilization section and a
34 collecting and evacuation section.

35
36 **Command and Control.** The H&S company commander directs and controls command support
37 functions relating to operations, administration, and logistics/CSS for the platoon.

38
39 **Firepower.** Organic firepower is limited to individual weapons and crew-served weapons for
40 personal protection and for defense of medical installations in accordance with applicable
41 international law.

42
43 **Mobility.** Organizational vehicles provide ground mobility. Vehicles, personnel, and equipment
44 of the platoon are helicopter transportable. Each collecting and evacuation section has two
45 tactical ambulances (M997) for collecting casualties from the next forward medical support area
46 and the stabilization section has two five ton trucks (or medium tactical vehicle replacements

1 [MTVRs]) to move the STP personnel and equipment.

2
3 **Communications.** Capable of single channel communications support, to include very high
4 frequency (VHF) and high frequency (HF) single channel radios, and vehicular single
5 channel radios.

6
7 **Concept of Employment**

8
9 The stabilization section provides the nucleus for a ten flow through bed (litter) facility. The
10 stabilization section can provide evacuation stations for emergency treatment, triage, and
11 ambulance transfer points. While a degree of mobility is sacrificed in providing a patient
12 treatment facility, the STP must maintain the capability to evacuate their casualties and move in
13 support of BASs and the MAGTF elements it serves. The methods by which this facility is
14 established, displaced, and relocated must keep pace with the mobility and flexibility demanded
15 by MAGTF operations.

16
17 **Logistic Capability**

18
19 **Supply.** The platoon is capable of limited organic supply support to receive, temporarily hold,
20 account for, and issue class VIII supplies. The platoon also serves as a limited emergency
21 resupply source for medical materiel for supported medical units. All other nonmedical supply
22 support is provided by the H&S company of the medical battalion; medical supply support is
23 provided by the medical logistics company.

24
25 **Maintenance.** Capable of organizational (1st and 2d echelon) maintenance on organic
26 equipment. Intermediate (3d and 4th echelon) maintenance support for nonmedical equipment, as
27 required, is provided by the maintenance battalion and for medical equipment, is provided by the
28 medical logistics company of the supply battalion.

29
30 **Transportation.** Organizational vehicles of the company provide limited mobility.

31
32 **General Engineering.** Engineering support, as required, is provided by the engineer support
33 battalion.

34
35 **Health Services.** The platoon is capable of organic medical support. Dental support is provided
36 by the dental battalion.

37
38 **Services.** Services support, as required, is provided by the service company of the H&S
39 battalion.

40
41 **Messing.** Food service support is provided by the H&S battalion or by the supported CSSE.

42
43 **2015. Surgical Company**

44
45 **Mission**

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1 Provide general HSS to the MEF, to include medical treatment facilities for the medical and
2 surgical care and temporary holding of casualties. A surgical company is designed to support
3 a regimental or MEB-sized force.

4
5 **Tasks**

6
7 Be prepared to receive casualties from forward medical treatment teams in the evacuation chain.

8
9 Establish medical treatment facilities for resuscitative surgery, medical treatment and temporary
10 holding of casualties from supported forces.

11
12 Prepare casualties for evacuation whose medical need exceeds the capability and established
13 theater evacuation policy.

14
15 Provide and coordinate medical evacuation for the landing force (LF).

16
17 Provide medical support to personnel of other Services and coalition forces as provided in
18 applicable regulations and agreements, and humanitarian care as required by international law.

19
20 Provide emergency dental care to support forces.

21
22 **Concept of Organization**

23
24 The company is organized to plan, coordinate, and supervise assigned functions of medical
25 support for the battalion. It is structured to facilitate task organization for operations conducted
26 by the battalion in support of the MEF, the MEB, or any combination of smaller MAGTFs. The
27 company consists of a headquarters platoon, a triage/evacuation platoon, surgical platoon,
28 holding platoon, combat stress platoon, and ancillary service platoon. The surgical platoon
29 consists of three surgical sections that each supports one operating room (2 tables per section) for
30 24-hour operations. The holding platoon contains three ward sections each containing 20
31 medical/surgical beds. The ancillary services platoon contains two laboratory sections, two
32 pharmacy sections and two x-ray sections. An attached dental platoon provides dental support
33 and will assist in the care and evacuation of casualties.

34
35 **Command and Control.** The company commander directs and controls command support
36 functions relating to operations, administration, and logistics/CSS for the company.

37
38 **Firepower.** Organic firepower capability is limited to individual and crew-served weapons for
39 personal security and defense of the medical installations in accordance with applicable
40 international law.

41
42 **Mobility.** Organizational vehicles of the company are helicopter transportable and provide
43 limited mobility. Transportation support is required from the transportation support
44 battalion to effect displacement.

45
46 **Communications.** Capable of single channel communications support, to include VHF and HF

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1 single channel radios, vehicular single channel radios and analog switchboard and telephone
2 support.

4 **Concept of Employment**

5
6 An entire surgical company is structured to facilitate task organization for operations conducted
7 by the battalion in support of the MEB, MEF, or any combination of smaller MAGTFs. The
8 surgical company is designed to allow a high degree of mobility and flexibility in deployment.
9 A surgical company may be divided into smaller sections to task-organize the support. This
10 facilitates deploying a platoon or section in the AE and the remaining capability in the AFOE
11 shipping. In a displacement and relocation evolution, it may be expedient to move platoons and
12 sections in leapfrog fashion, in order to provide maximum continuity of patient care.

14 **Logistic Capabilities**

15
16 **Supply.** The company is capable of organic supply support to receive, temporarily hold, account
17 for, and issue class VIII supplies and serves as an emergency resupply source for medical
18 materiel for supported medical units. All other nonmedical supply support is provided by the
19 H&S company of the medical battalion, and medical supply support is provided by the medical
20 logistics company of the supply battalion.

21
22 **Maintenance.** The company is capable of organizational (1st echelon) maintenance on organic
23 equipment. Organizational (2d echelon) maintenance support for nonmedical equipment is
24 provided by the H&S company of the medical battalion. Organizational (2d echelon) and
25 intermediate (3d and 4th echelon) maintenance support for medical equipment is provided by the
26 medical logistics company of the supply battalion. Intermediate (3d and 4th echelon)
27 maintenance support for nonmedical equipment is provided by the maintenance battalion.

28
29 **Transportation.** Transportation is limited to ground ambulances. Motor transport support is
30 provided by or coordinated through H&S company of the medical battalion. Support from
31 Transportation Support Battalion is required for displacement or relocation.

32
33 **General Engineering.** Engineering support, as required, is provided by the engineer support
34 battalion.

35
36 **Health Services.** The company is capable of organic medical support. Dental support is
37 provided by the dental battalion.

38
39 **Services.** Services support, as required, is provided by the service company of the H&S
40 battalion.

41
42 **Messing.** Food service support is provided by the H&S company of the medical battalion, the
43 H&S battalion, or by the supporting CSSE.

45 **2016. Dental Battalion**

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1 The dental battalion is the source of dental services to the MEF. By attaching scalable task-
2 organized dental sections and detachments to elements of the MAGTF, battalion personnel
3 ensure dental readiness and optimize health during exercises, deployments, military operations
4 other than war, and combat operations.

6 **Mission**

8 Provide scalable task-organized dental elements to the CSSE in order to minimize the effects of
9 dental emergencies, injuries and illness on unit effectiveness, readiness and morale. Provide
10 prompt, forward disposition of dental casualties via rapid treatment and return to duty or
11 evacuation. Assist in the care and evacuation of casualties.

13 **Tasks**

15 Provide a comprehensive program of garrison dental health care for the MEF.

17 Coordinate MEF dental health care support requirements.

19 Provide dental detachments, as required, to support MAGTFs smaller than a MEF.

21 Supervise implementation of dental health care delivery programs for the MEF.

23 Provide medical care and evacuation of casualties as required.

25 Assist in forensic identification.

27 **Concept of Organization**

29 The dental battalion consists of a headquarters and three dental companies from which task-
30 organized operational dental support is provided to the MEF, MEB, or any combination of
31 smaller MAGTFs.

33 **Command and Control.** The battalion commander exercises command and control of the
34 battalion through the battalion staff and the company commanders. He directs and controls
35 command support functions of operations, administration, and logistics/CSS for the battalion.
36 The battalion commander deploys as a member of the FSSG commanders' special staff to advise
37 on dental matters and to coordinate employment of dental personnel and resources.

39 **Firepower.** Organic firepower capability is limited to individual weapons for personal security
40 and defense of dental installations in accordance with applicable international law.

42 **Mobility.** Organizational vehicles of the battalion are helicopter transportable and provide
43 limited mobility. Transportation support is required from the transportation support battalion to
44 effect displacement.

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1 **Communications.** Communications support is provided by the communications company of the
2 H&S battalion.

3
4 **Intelligence.** Intelligence support is provided by the H&S battalion.

5
6 **Security.** Security support is provided by the H&S battalion.

7
8 **Concept of Employment**

9
10 The dental battalion provides scalable task-organized support to the MEF. Expeditionary field
11 dental equipment/ supply authorized dental allowance list (ADAL) 662, organic to the dental
12 battalion, will be lightweight, compact, mobile, and capable of being independently sited. Each
13 ADAL will provide dental diagnostic, preventive, emergency, and maintenance capability.

14
15 **Logistic Capability**

16
17 **Supply.** The battalion is capable of organic supply support. Class VIII medical supply support is
18 provided by the medical logistics company.

19
20 **Maintenance.** The battalion is capable of organizational (1st and 2d echelon) maintenance on
21 organic dental and non-dental equipment and intermediate (3d echelon) maintenance on organic
22 dental equipment. The medical logistics company of the supply battalion provides intermediate
23 (3d and 4th echelon) maintenance support for dental equipment and maintains the ADALs.
24 Intermediate (3d and 4th echelon) maintenance support for non-dental equipment is provided by
25 the maintenance battalion.

26
27 **Transportation.** The battalion is capable of organic transportation support for command and
28 administrative purposes.

29
30 **General Engineering.** Engineering support, as required, is provided by the engineer support
31 battalion.

32
33 **Health Services.** Medical support is provided by H&S battalion, and dental support is provided
34 by the dental battalion.

35
36 **Services.** Services support, as required, is provided by the service company of the H&S
37 battalion.

38
39 **Messing.** Food service support will be provided by the the H&S battalion. When the dental
40 battalion is collocated with the medical battalion, food service support may be provided by the
41 medical battalion.

42
43 **2017. Medical Logistics Company, Supply Battalion, Force Service Support Group**

44
45 The medical logistics company (MedLogCo) is not an HSS organization of the medical battalion,
46 but a supply and maintenance operation directly responsible to the Commanding Officer, Supply

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1 Battalion, FSSG. The MedLogCo provides the organizational structure of centralizing HSS
2 capability set maintenance and management within the FSSG.

3
4 **Mission**

5
6 Receipt, storage, management, and issue of Class VIIIA supplies and equipment in support of
7 HSS capability sets assigned to HSS elements of the force; provide for inventory, quality control,
8 stock rotation and general management of capability sets prior to issue to using units; and provide
9 appropriate repair/maintenance for HSS equipment for the MEF.

10
11 **Tasks**

12
13 Provide general supply support, to include establishment and operation of Class VIIIA supply
14 points, and acquisitions, receipt, and issue, for class VIIIA materiel of the MEF.

15
16 Provide organizational (1st and 2nd echelon) maintenance on organic equipment and
17 intermediate (3d and 4th echelon) maintenance support for class VIIIA equipment of the MEF.
18 Provide support for packing, preserving, storing, and maintaining Class VIIIA resupply.

19
20 Provide for the receipt, storage and issue of Class VIIIA supplies; intermediate (3d and 4th
21 echelon) maintenance support for biomedical/technical medical and dental equipment: and 1st
22 and 2nd echelon maintenance support for MAGTF medical and dental equipment.

23
24 Provide technical assistance to MAGTF medical and dental units for the maintenance, inventory
25 and quality control of units AMAL/ADALs.

26
27 Establishes and operates Class VIIIA supply points, within the CSSE in support of the MAGTF
28 to include acquisition, receipt, storage, stock rotation and issue of Class VIIIA material, as
29 directed by Commanding Officer, Supply Battalion.

30
31 Initiates line items issue of Class VIIIA supplies when directed.

32
33 Use commercial contracting programs such as prime vendor and vendor managed inventory to;
34 reduce local logistics expense for warehousing, local contracting, bill payments, smaller
35 inventories, lower materiel costs, improved materiel shelf life and rotate the inventory to prevent
36 it from reaching its expiration date. The net result over time will be a reduction in disposal costs
37 and greater accuracy in readiness reporting.

38
39 Other tasks as may be prescribed by the Commanding Officer, Supply Battalion, FSSG.

40
41 **Concept of Organization**

42
43 The MedLogCo consists of a headquarters section, three supply platoons and an equipment
44 repair platoon. The company is organized to plan, coordinate, and supervise the common support
45 functions of the battalion. It is structured to facilitate task organization of detachments in
46 support of MAGTF operations.

1
2 **Command and Control.** The company commander directs and controls command support
3 functions relating to operations, administration, and logistics/CSS for the company.

4
5 **Firepower.** Organic firepower capability is limited to individual weapons for personal security.

6
7 **Mobility.** Organizational vehicles of the company provide limited mobility. Transportation
8 support is required from the transportation support battalion to effect displacement.

9
10 **Communications.** Communications support, as required, is provided by the H&S battalion.

11 12 **Concept of Employment**

13
14 The company is structured to provide a centralized supply and maintenance facility for class
15 VIIIA supplies and equipment. The supply platoons are capable of centralized operations under
16 MedLogCo or decentralized operations in three balanced units in support of a MEF, MEB, or
17 smaller MAGTFs. The equipment repair platoon is capable of in-store maintenance of medical
18 and dental equipment of the MEF, and operating in a centralized repair site and/or through
19 decentralized, on-site maintenance support teams.

20 21 **Logistic Capabilities**

22
23 **Supply.** The company is capable of organic supply support.

24
25 **Maintenance.** The company is capable of organizational (1st echelon) maintenance on organic
26 equipment and organizational (1st and 2d echelon) and intermediate (3d and 4th echelon)
27 maintenance on medical and dental equipment of the MEF. For other organic
28 nonmedical/nondental, Marine Corps-furnished equipment, organizational (2d echelon)
29 maintenance support is provided by the H&S company of the supply battalion, and intermediate
30 (3d and 4th echelon) maintenance support is provided by the maintenance battalion.

31
32 **Transportation.** The company is capable of organic transportation support for command and
33 administrative purposes. To effect distribution of class VIII supplies, augmentation by the
34 transportation support battalion is required.

35
36 **General Engineering.** Engineering support, as required, is provided by the engineer support
37 battalion.

38
39 **Health Services.** Medical support is provided by H&S battalion, and dental support is provided
40 by the dental battalion.

41
42 **Services.** Services support, as required, is provided by the service company of the H&S
43 battalion.

44
45 **Messing.** Food service support is provided by H&S battalion.

Chapter 3 Non-Marine Corps HSS Assets

3001. Mobile Medical Augmentation Readiness Teams and Task-Organized Capabilities Based Process

The component unit identification code (UIC) process and MAP have replaced the Bureau of Medicine and Surgery (BUMED) Mobile Medical Augmentation Readiness Team (MMART) Program. BUMED Instruction 6440.5 series, *Medical Augmentation Program (MAP)* contains detailed information on the medical augmentation program.

Augmentation during wartime is provided through MAP i.e., Hospital Ships (T-AH), MARFOR, CRTS, Forward Deployed Preventive Medicine Units (FDPMU), Expeditionary Medical Facility (EMF) and outside the continental United States (OCONUS) MTF augmentation. The personnel assigned to these platforms represent medical skills and training requirements as well as capabilities tailored to the platform assigned. If any operational commander requires medical support above and beyond the MAP defined above, Naval Medicine has the capability to task organize to meet that requirement. The operational commander may request the required capability from the Chief of Naval Operations via the operational chain of command.

3002. Fleet Surgical Teams

Fleet surgical teams (FSTs) are 16 member HSS augmentation teams permanently assigned to the fleet combatant commanders. The FSTs provide surgical and medical support to all the amphibious ready groups while deployed. Staffing includes a general surgeon, anesthesiologist or nurse anesthetist, family practice physician, operating room nurse, and intensive care nurse. Medical support for other peacetime contingencies that cannot be covered by the FSTs will be provided by MAP.

3003. Forward Deployable Preventive Medicine Unit

The forward deployable PM unit (FDPMU) is a rapidly deployable, task-organized, specialized PM platform that meets the operational commander's FHP needs. It includes all capabilities of the former forward deployed laboratory plus many expanded capabilities, including NBC agent identification.

Mission and Functions. The mission of the FDPMU is to further FHP by identifying and evaluating EH hazards, assessing the risk of adverse health outcomes, monitoring the health of the deployed force, and advising the operational commander concerning significant risks and recommended countermeasures and other interventions needed to protect the health of the force. The FDPMU is organized in four major functional components.

Preventive Medicine- surveillance data analysis, epidemiological investigation of outbreaks, provides EH monitoring and assessment, and recommends interventions for prevention and control of occupational and environmental illnesses, injuries, and diseases.

1 Chemical- detection, identification and monitoring of chemical warfare, environmental, and
2 radiological hazards and exposures.

3
4 Microbiology- detection, identification and testing of naturally occurring and biological warfare
5 infectious disease agents, laboratory diagnosis of militarily relevant infectious diseases in
6 support of outbreak investigations.

7
8 Disease Vector- surveillance, specimen collection and processing, and control of animals/insects
9 that potentially transmit militarily relevant vector-borne diseases. Provides recommendations
10 regarding force personal protection strategies.

11
12 **Employment.** The FDPMU functions independently of the health care delivery mission of
13 deployed MTFs and focuses on providing rapid health hazard identification and threat
14 assessment to the operational commander rather than on casualty care. The FDPMU is capable
15 of tailoring its size and composition according to operational mission requirements. Any single
16 component or combination of components can deploy as the mission requires. The FDPMU is
17 capable of providing support for the full spectrum of contingencies.

18 19 **3004. Medical and Dental Facilities of Ships and Landing Craft**

20
21 In expeditionary operations, designated ships of an expeditionary strike group (ESG) provide
22 medical and dental support to the LF until the mission is completed or until the ships are tasked
23 with a follow-on mission. The ESG ships suitable for use as casualty receiving and treatment
24 ships (CRTS) are the amphibious assault ship (multipurpose) (LHD) and amphibious assault ship
25 (general purpose) (LHA). In order to achieve full casualty treatment capability, these ships
26 require augmentation by a large number of health service support (HSS) personnel. In
27 operational scenarios that fall short of requiring full wartime mobilization, partial casualty
28 treatment capability may be achieved through a task-organized based process to meet operational
29 requirements by requesting augmentation of medical capabilities through MAP via the
30 operational commander's chain of command to BUMED via the Chief of Naval Operations
31 (N931). The numbers of HSS personnel required to bring the LHD and LHA to fully augmented
32 levels are cited in the discussions of individual ship types. Please note that only these two ship
33 types are designated for augmentation under the MAP plan.

34
35 The following ships can be included as part of an ESG. Expeditionary HSS support capabilities
36 of these vessels and their potential roles as CRTS are also discussed.

37 38 **Amphibious Assault Ship (Multipurpose)**

39
40 The LHD is the newest, largest, and most versatile amphibious assault ship. Externally, it
41 resembles an aircraft carrier. The LHD can transport approximately 1,800 troops, along with
42 aircraft, boats, and amphibious vehicles required to land them.

43
44 The LHD has the greatest medical capability of any ship currently in use. Medical capabilities
45 include four major and two minor operating rooms. Beds are designated as 45 primary care, 15
46 intensive care unit (ICU), and 6 isolation. Dental capabilities include four dental operatories and

1 a prosthetics lab. It can receive casualties via the flight deck or well deck. It requires 342 HSS
2 personnel to achieve full casualty treatment capability.

4 **Amphibious Assault Ship (General Purpose)**

6 The LHA can transport approximately 1,900 troops with aircraft, boats, and amphibious vehicles
7 required to land them. LHAs are designed to function as CRTS in expeditionary operations.
8 Medical spaces include two major and two minor operating rooms. Beds are designated as 45
9 primary care, 15 ICU, and four isolation. Dental spaces include one oral surgery operating room
10 and two general dental operatories, with supportive diagnostic, patient management, and
11 treatment facilities. LHAs require augmentation by 178 medical department personnel to
12 achieve full casualty treatment capability. It can receive casualties via the flight deck or well
13 deck.

15 **Amphibious Transport Dock**

17 Amphibious transport docks (LPDs) are used to embark, transport, and off-load components of a
18 LF utilizing landing craft and expeditionary vehicles. LPDs have limited helicopter lift
19 capability. LPDs can carry 900 troops and offer only limited potential for use as CRTS.

21 Medical spaces include an operating area suitable for minor surgery and 6 to 8 primary care beds
22 and one isolation bed. Dental spaces include a general dental operator. These ships could be
23 used as emergency or overflow CRTS only if augmented with medical personnel and supplies.
24 However, MAP does not address augmentation for LPDs. When available, the LPD-17 Class will
25 have the same general mission capabilities as previous LPD class ships. The medical spaces will
26 include two operating rooms (one major and one minor) and 24 primary care beds. The medical
27 space will also offer state of the art technology in command, control, communications,
28 computers, and intelligence capabilities as well as intravenous fluid and oxygen generating
29 capability.

31 **Dock Landing Ship.** Although called a landing ship, the dock landing ship (LSD) does not
32 beach. These ships are similar to LPDs but their well decks are larger and their troop and cargo-
33 carrying capacity is more limited. The LSD primarily serves as a mother ship for landing craft
34 and amphibious vehicles. LSDs transport landing craft and amphibious vehicles to an objective
35 area and repair and maintain them during an operation. Older LSDs are not suitable for use as
36 CRTS. Newer LSDs (Class 41 and newer ships) have limited potential for use as CRTS.

38 Medical spaces include an operating space suitable for minor surgery and six primary care beds.
39 Dental spaces include a general dental operator. LSDs can be used as emergency or overflow
40 CRTS only if augmented with medical personnel and supplies. Only newer LSDs have a
41 physician aboard.

43 **Amphibious Command Ship.** The mission of an amphibious command ship (LCC) is to serve
44 as a floating command center for expeditionary operations. These ships are equipped with
45 sophisticated electronic and communication equipment and normally serve as the flagship for
46 both ESG commander and the LF commander. The LCC mission and limited 24-bed capacity

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1 preclude its use as a CRTS. It has adequate medical and dental facilities to care for embarked
2 personnel. The ESG surgeon, LF surgeon, and other key medical staff officers are normally
3 located on an LCC during expeditionary operations. The LCC serves as the medical nerve center
4 of the ESG until operational cognizance is passed ashore with the LF.

5
6 **Hospital Ship.** The hospital ship (T-AH) is a floating surgical hospital vested with the mission
7 to provide acute medical care in support of combat operations at sea and ashore. Support may be
8 provided to an expeditionary task and/or to joint and combined forces. In carrying out this
9 mission, the T-AH--

10
11 - Receives patients suffering from wounds, disease, or nonbattle injury.

12
13 - Provides on-site emergency and recuperative care to patients until they can be returned to duty
14 or evacuated.

15
16 - Provides a safe, stable mobile platform for carrying out the assigned mission.

17
18 - Provides necessary personnel, services, and facilities required for the support of the medical
19 facility.

20
21 - Operates a full medical facility while at sea, day and night with minimal maintenance and
22 refueling.

23
24 The T-AH is designed to receive patients primarily by helicopter. It has very limited capacity for
25 receiving patients by boat. Initial triage is performed in a casualty reception area. This area has
26 a total of 50 positions, each with piped oxygen, suction and cardiac monitoring capabilities. The
27 operating complex consists of 12 operating rooms that are equipped for orthopedic, urological,
28 neurological, thoracic, vascular, eye ear nose throat, and general surgical procedures. Adjacent
29 to the operating complex is a recovery room with 20 beds, each with oxygen, suction, and patient
30 monitoring equipment. The ICU consists of 80 beds. Intermediate, light, and limited care wards
31 offer an additional 900 patient beds. The T-AH has services comparable to those offered in
32 major hospitals, plus special gases generation and water distillation facilities.

33 34 **Fleet Hospital**

35 Each maritime pre-positioning ships squadron (MPSRON) contains a 500 bed fleet hospital (FH)
36 that, when established, has three operating room suites with two operating room tables each for a
37 total of six operating room tables, 80 intensive care unit beds, and 420 ward beds. These
38 facilities are USN assets embarked on MPF ships, forward deployed and configured for use in
39 contingencies. Although the FH is transported on the MPF, once it enters the theater of
40 operations it becomes a capability of the geographic combatant commander. FH is operated and
41 staffed by Navy personnel through MAP coordinated by BUMED. Additionally the Navy
42 has eight 500-bed fleet hospitals that provide full resuscitative and emergency surgery.

43 As the fleet hospitals are phased through the integrated logistics service program they are being
44 modularized to allow for smaller more mobile hospital units. Smaller EMFs range from 10 to
45 116 beds that can run independently and can be expanded.

1
2 **3005. Medical Information and Intelligence**

3
4 Medical intelligence products most widely used throughout DOD include products produced by
5 Armed Forces Medical Intelligence Center (AFMIC). AFMIC is a Field Production Activity of
6 the Defense Intelligence Agency and its mission is to provide medical intelligence to support US
7 operational forces, DOD and its components, national policy officials and other federal agencies.
8 AFMIC gathers medical intelligence through planning and direction, collection, processing,
9 production, and dissemination.

10
11 AFMIC products include--

12
13 Medical, Environmental, Disease Intelligence and Countermeasures (MEDIC): the MEDIC CD-
14 ROM provides worldwide infectious disease and EH risks hyperlinked to the Joint Service-
15 approved countermeasure recommendations, military and civilian health care delivery
16 capabilities, operational information, disease vector ecology information and reference data.

17
18 Infectious Disease Risk Assessment (IDRA)- IDRAs assess the risk from infectious diseases of
19 operational military significance on a country-to-country basis worldwide. IDRAs are available
20 via INTELINK and the MEDIC CD-ROM.

21
22 Environmental Health Risk Assessment (EHRA)- EHRAs assess EH risks of operational military
23 significance on a country-by-country basis worldwide. EHRAs are available via INTELINK and
24 the MEDIC CD-ROM.

25
26 Health Services Assessment- The Health Services Assessment is designed to provide consumers
27 the bottom-line assessment of the health services capability of a country, with limited descriptive
28 data and examples relating only to critical elements of the civilian and military health care
29 systems.

30
31 Urban Medical Capabilities Study- The urban study includes a map of the urban area, general
32 health information, and locations, descriptions, and images of key medical treatment facilities.

33
34 AFMIC Wire- The AFMIC wire is a current intelligence document, presenting analysis of newly
35 reported information of immediate interest to deployed/deploying forces.

36
37 Disease Occurrence Worldwide- The Disease Occurrence Worldwide provides time-sensitive
38 updates to the IDRAs. It is published monthly as an unclassified message with a classified
39 supplement, if necessary.

40
41 Life Sciences and Technologies- These studies assess foreign basic and applied biomedical and
42 biotechnological developments of military medical importance, foreign civilian and military
43 pharmaceutical industry capabilities, and foreign scientific and technological medical advances
44 for defense against nuclear, biological and chemical warfare.

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1 Handbook of Diseases of Military Importance. This publication is a one-time unclassified
2 product presently stocked by the Defense Intelligence Agency. The product is a compilation of
3 medical information on a historical spectrum of diseases determined to be of military
4 importance. Since disease occurrence tends to be dynamic, this publication should be used in
5 conjunction with updated information published by AFMIC in other products.

6
7 Requests for information (RFI) – the RFI is your way of asking AFMIC for answers to questions
8 that are not found in published studies. Generally, an RFI is a project requiring 40 hours or less
9 for AFMIC to complete. RFIs should be directed to AFMIC through the community on-line
10 intelligence system for end-users and managers or by contacting AFMIC Operations at its 24-
11 hour contact number, Defense Switched Network 343-7574 or commercial (301) 610-7574.
12 Telephones are secure via secure telephone unit III through the top-secret sensitive
13 compartmented information level.

14 15 **Other Intelligence Sources**

16
17 **National Intelligence Survey and National Intelligence Estimate.** Published by the Central
18 Intelligence Agency, these documents are comprehensive and contain detailed information on
19 medical and sanitation conditions in the area of interest. Documents on a large number of areas
20 may be requested from the G-2/S-2 officer.

21
22 **Local Command G-2 Sections.** Additional medical intelligence may be requested through G-2
23 sections of MEF, division, wing, or FSSG.

24
25 **Naval Environmental Health Center, Norfolk, VA, Navy Environmental and Preventive
26 Medicine Units, and Navy Disease Vector Ecology and Control Centers.** These facilities
27 offer updated disease information on areas of the world or specific countries.

28
29 All medical intelligence and information, no matter what the form or source, must be shared with
30 cognizant G/S-2 staff sections. Medical personnel should be aware that gathering medical
31 information from the field that may have an intelligence application is an important function of
32 Navy medicine.

Chapter 4 Operations

The Marine Corps master plan establishes operational foundations for organizing, manning, equipping, training, and developing doctrine and operational techniques for MAGTFs of the Marine operating forces. Regardless of type, size, or mission, HSS is a mission area common to every MAGTF. Therefore, definitive operational planning for HSS is always subordinate to specific MAGTF operational planning. The inherent flexibility in MAGTF task organization and broad spectrum of potential missions call for matching flexibility in subordinate mission area planning.

Size, type, and configuration of HSS facilities to effectively support a MAGTF will be determined by-

- MAGTF's mission.
- Scope and expected duration of the operation.
- Expected combat intensity.
- Availability of other HSS facilities in AO.

These factors notwithstanding, there exists a notional HSS operational framework applicable to each basic MAGTF type. The following paragraphs provide a conceptual framework within which HSS operations may be viewed and training conducted.

4001. The Marine Expeditionary Force

The medical and dental battalions of the FSSG normally provide HSS beyond the organic capabilities of MEF ground combat and ACEs. Additional support may be required from designated CRTSs of the ESG. In any MEF-sized operation, it is expected that medical support will also be required from medical facilities of other Services within the theater of operations.

Collocation of health service facilities, whenever possible, may enhance the capabilities of the medical battalion. Economies may be realized in utilization of medical department personnel, unit defense, transportation, etc. However, consolidation provides a larger target and may limit mobility and employment options. The decision to consolidate or disperse health service assets will be made by the operational commander during the planning phase. Subsequent tactical events may require modification of original plans. If required, task-organized HSS elements may be detached to support geographically remote ground and aviation forces.

4002. The Marine Expeditionary Brigade

The GCE and ACE of a MEB receive HSS above their organic capabilities from task-organized components of the medical and dental battalions. Additional support may be required from designated CRTS of the ESG, and may be required from medical facilities of other Services within the theater of operations, such as Navy fleet hospitals and T-AHs.

The notional task-organized HSS for a MEB consists of a group aid station for Level I care, two

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1 to four STPs, one to three FRSSs, one surgical company augmented by a dental platoon, en route
2 care capability, preventive medicine personnel and a medical logistics detachment. This HSS
3 structure operates as part of the CSSE supporting a MEB. The CSSE for a MEB is designated as
4 a brigade service support group. Note: There is not an established T/O and table of equipment
5 (T/E) for a MEB since they are task organized for the mission from the units available within the
6 MEF.

7
8 MEB HSS personnel embarked on amphibious force (AF) ships will augment AF medical and
9 dental departments in providing care to embarked personnel of the LF. Landing force class VIII
10 equipment and consumable supplies will not be used in the “afloat phase” of medical support,
11 except when authorized by the MEB commander.

12
13 A dental section from dental battalion provides dental support for the MEB. The dental section
14 provides preventive dental maintenance and emergency dental care for the deployed MEB and to
15 render assistance to medical units in the triage, care, and evacuation of casualties.

16 17 **4003. The Marine Expeditionary Unit**

18
19 The MEU receives its HSS organic capabilities from task-organized components of the medical
20 and dental battalions, FSSG. These components are located in the MEU service support group
21 (MSSG), and may include--

- 22
- 23 - Shock/Trauma Platoons
- 24 - MedLogCo Detachment.
- 25 - Dental Detachment.
- 26

27 Before operations start, MEU HSS personnel aboard amphibious ships will augment and support
28 AF medical and dental departments to care for embarked personnel of the LF. Landing force
29 Class VIII equipment and supplies will not be used aboard ship unless authorized by the MEU
30 commander in support of an overwhelming emergency.

31
32 If it is determined that HSS elements of the MSSG will remain afloat and carry out their mission
33 from a sea base, those elements will augment medical and dental departments of the AF in a
34 combined HSS effort. The MEU surgeon may recommend that MEU commander authorize HSS
35 personnel of the MSSG to use class VIII consumable supplies and equipment if necessary to
36 carry out their mission. This contingency should be addressed in the OPORDs.

37
38 The HSS element of the MSSG are capable of operations ashore. The shore-based element may
39 be no more than a beach or helicopter evacuation station manned by a triage/evacuation platoon
40 or an STP. The operation may require that the entire HSS section of the MSSG be located
41 ashore. The following guidelines apply, regardless of tactical basing of HSS elements.

- 42
- 43 - Combat and CSS elements of the MEU are responsible for collection and initial treatment of
44 casualties.
- 45
- 46 - The absence of dedicated Marine Corps medical evacuation aircraft dictates that during the

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1 HSS planning process, prior planning with the ACE medical planner is essential to request either
2 designated or standby airframes to perform casualty evacuation if available. During advance
3 force operations and follow-on force operations the wing medical planner may have the
4 opportunity to designate airframes in the air tasking order (ATO). In the absence of a casualty
5 evacuation capability, casualty evacuation will be accomplished with surface transportation. Any
6 available form of transportation may be used for casualty evacuation.

7
8 - The dental detachment in support of a MEU uses afloat facilities/supplies, and when required,
9 LF Class VIII dental equipment/supplies to provide emergent, maintaining and preventive dental
10 care while embarked. When ashore, the dental detachment will provide scaled dental treatment
11 based on the tactical environment and logistical maturity of the theater. Additionally, they will
12 assist in the care and evacuation of casualties.

13 14 **4004. Sea Based/Amphibious Operations**

15
16 Recognize that the phased landing of medical facilities in the amphibious objective area (AOA)
17 will vary with the tactical situation and physical environment.

18 19 **Assault Echelon**

20
21 In the AE, medical support ashore is limited to the capabilities of medical sections organic to
22 combat units. Until BASs are established ashore, medical care for initial assault forces is
23 provided by self-aid, buddy aid and the corpsmen of landed rifle platoons.

24
25 Infantry BASs and their personnel are normally divided into two sections, with assigned
26 battalion non-medical litter bearers divided between the two sections. The 1st echelon of a BAS
27 lands with the battalion combat train and is established in close support of the assault force. The
28 2d echelon of the BAS lands with the field train, and may be required to establish an evacuation
29 station until relieved by designated evacuation station support elements.

30
31 Evacuation station facilities are normally task-organized and formed by the supporting medical
32 battalion, drawing assets from collecting and evacuation sections of STPs or triage/evacuation
33 platoons of surgical companies. Evacuation stations are normally established with the landing
34 force support party (LFSP), and constitute the evacuation section(s) of the LFSP. The primary
35 role of an evacuation station is to facilitate evacuation of assault force casualties to designated
36 CRTS.

37
38 When evacuation stations attached to the LFSP become operational ashore, 2d echelon elements
39 of BASs are relieved to conduct their missions in primary support of parent battalions. Following
40 the landing of assault battalions and supporting evacuation stations, the buildup of HSS facilities
41 ashore begins.

42 43 **Assault Follow-on Echelon**

44
45 The buildup of LF HSS facilities ashore begins as soon as the tactical situation permits. These
46 facilities are primarily the task-organized medical battalion elements embarked to support

1 combat operations. In a notional MAGTF scenario involving a MEB, the first medical battalion
2 unit landed could be either a group of STPs or a surgical company. By virtue of its size and time
3 required to make the facility operational, STPs would normally be selected. In another scenario,
4 a surgical company might be the first large facility landed. The initial facility establishes shore-
5 based capabilities for emergency care, stabilization, and temporary holding of casualties.

6
7 Surface evacuated casualties from LF units normally flow through shore-based facilities, once
8 those facilities are established. Casualties evacuated by air may bypass shore based facilities en-
9 route to a CRTS.

10
11 It may be necessary to employ additional STPs and/or surgical companies in the AOA to achieve
12 adequate dispersion of facilities. Such decisions are dictated by enemy threat, geographical
13 employment of MAGTF elements (especially fixed-wing aviation), and other tactical and
14 environmental considerations.

15
16 If aircraft and a suitable airfield are available, casualty evacuation by fixed-wing aircraft from
17 the AOA to medical treatment facilities located further back in theater may begin during this
18 stage.

19
20 Dental care will be provided during AFOE phase to retain combat troops in theater. A dental
21 section will employ with each surgical company. A dental detachment from a DP-G may be
22 employed to reinforce STPs with attached surgical sections to treat and evacuate casualties.

23 24 **Follow-on Forces**

25
26 When progress of assault units is such that the beachhead is relatively secure, LF HSS facilities
27 move into the follow-on force stage.

28
29 A major LF medical support objective is to achieve a posture capable of providing shore-based
30 health care consistent with the expected combat intensity and duration of continued operations
31 ashore, independent of sea-based facilities. This objective is achieved by upgrading capabilities
32 ashore through consolidation of facilities and bringing ashore any LF medical assets not already
33 landed.

34
35 Since the surgical company is a major link in the chain of evacuation it should, whenever
36 possible, be located in close proximity to an airfield capable of casualty evacuation by fixed-
37 wing aircraft.

38
39 When a sustained land operation is envisioned for the MAGTF, additional medical support
40 facilities will normally be provided in the form of Navy fleet hospitals (or other Service
41 equivalent facilities), or a T-AH.

42
43 As the HSS capability ashore matures, dental care will transition from emergent care to
44 maintaining/preventive services. The stages described in the foregoing paragraphs represent only
45 notional or general scenarios. Potential variables resulting from such factors as threat level,
46 tactical mission, terrain, geography, weather, force at risk, opposing forces, etc., will dictate

1 progression through force build-up stages.

2
3 **4005. Enemy Prisoners of War**

4
5 In accordance with laws of land warfare, enemy prisoner of war (EPW) patients are afforded the
6 same level of health care as patients of the detaining power. The provision of guards for
7 prisoners receiving medical treatment and for wards housing prisoners is a command
8 responsibility. Since casualties receiving medical care are potential intelligence sources, medical
9 personnel should cooperate closely with unit intelligence officers. MTFs are not to be used in
10 lieu of an EPW stockade, nor will medical treatment be withheld or delayed purely to facilitate
11 interrogation of prisoners. Enemy medical personnel should be used to provide assistance in
12 treating other prisoners.

13
14 **4006. Health Service Support for Other Special Category Patients**

15
16 In modern military operations, health care services may be required by a wide category of
17 potential patients. These potential demands should be carefully considered in initial planning.
18 Categories that require careful consideration include indigenous allies, friendly and unfriendly
19 civilians, paramilitary organizations, representatives of various US agencies, US civilian
20 contractor personnel, mercenary units employed by the allied forces, etc. As a general rule, any
21 individual may be treated on a humanitarian basis, if space and staff are available. Fine lines of
22 distinction often exist that must be clarified by the command. For example, wounded unfriendly
23 civilians may be subject to restrictions and regulations that do not apply to EPWs.

24
25 **4007. Patient Movement**

26
27 Care of the sick and wounded in any area of combat is greatly influenced by the prevailing
28 tactical situation. Conditions are seldom static, and success must remain the primary goal of
29 combat, combat support, and CSS units. This environment requires a dynamic casualty
30 management decision-making process that must be applied at all HSS units and in the patient
31 movement system.

32
33 Patient movement is a system that provides a continuum of care and coordinates the movement
34 of patients from point of injury or onset of disease through successive levels of medical care, to
35 an MTF that can meet the needs of the patient. Prompt movement of casualties through the
36 evacuation system to treatment facilities is essential to decrease morbidity and mortality. If
37 casualties occurred at regular intervals, in constant numbers, at predetermined locations, and
38 with predictable injuries, their movement would require little or no coordination, but this is
39 rarely the case. Patient movement within the task force is a vital support factor that must be
40 planned and exercised. Personnel must be trained on equipment and procedures in advance of
41 operations in the field otherwise lives will be lost until knowledge is gained. Coordination of
42 casualty movement is especially critical during operations when casualties must be moved from
43 shore to ships of the task force. When properly applied, the patient movement process ensures
44 that patients move only as far rearward in the continuum of care as their health needs dictate
45 which, in turn, assures the efficient and effective use of the limited HSS assets available to the

1 task force. Functions of patient movement include medical regulating, patient evacuation, and en
2 route medical care.

4 **Medical Regulating**

6 The actions and coordination necessary to arrange for the movement of patients through the
7 levels of care. This process matches patients with a medical treatment facility that has the
8 necessary health service support capabilities and available bed space.

10 **Casualty Evacuation versus Medical Evacuation**

12 Casualty evacuation (CASEVAC), a term used by all Services, refers to the movement of
13 unregulated casualties aboard vehicles or aircraft. It includes movement both to and between
14 medical treatment facilities. Casualty evacuation is the transport of casualties from the point of
15 injury to the casualty collection or forward resuscitative surgery facility. For the Marine Corps,
16 this includes transport from the point of injury or casualty collection point to the BAS, STP,
17 FRSS or surgical company.

19 If dedicated ground ambulances or designated aircraft are available, casualties should be
20 evacuated on these conveyances to ensure they receive en route medical care.

22 If available evacuation resources are overwhelmed (such as in a mass casualty situation), some
23 casualties (usually with minimal or nonlife-threatening injuries) may be required to be
24 transported on nonmedical vehicles. Medical personnel on-site will determine the priority for
25 evacuation. When possible, nonmedical vehicles/ aircraft transporting casualties should be
26 augmented with a corpsman. The type of en route surveillance and medical care/first aid
27 provided is limited by the following factors--

- 29 • Skill level of the individual providing care.
- 30 • Equipment available.
- 31 • Number of casualties being transported.
- 32 • Accessibility of the casualties. (If the nonmedical ground vehicle is loaded with the
33 maximum number of casualties, the corpsman will not be able to attend to the casualties
34 while the vehicle is moving. At best, if the condition of a casualty deteriorates and
35 emergency measures are required, the vehicle will have to be stopped to permit care to be
36 given.)

38 Medical evacuation (MEDEVAC) traditionally refers to patient movement using predesignated
39 tactical or logistic aircraft temporarily equipped and staffed with medical attendants for en route
40 care. The provision of en route care enhances the patient's potential for recovery and may
41 reduce long-term disability by maintaining the patient's medical condition in a more stable
42 manner.

44 Medical evacuation or tactical evacuation is the transport of patients from a casualty collection or
45 forward resuscitative facility to a theater hospital. For the Marine Corps, this includes transport

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1 of patients from a BAS, STP, or FRSS to a surgical company and evacuation from FRSS or
2 surgical company to a theater hospital.

3
4 It is important to understand interservice differences in terminology. It is common to hear Navy,
5 Marine Corps, and Army personnel refer to “MEDEVAC” when describing the air evacuation of
6 wounded from the battlefield. The Air Force, however, considers the term “MEDEVAC” to be
7 reserved for the aeromedical evacuation of a stabilized patient from one MTF to another. As
8 stated before, for the Marine Corps, CASEVAC is the transport of casualties from the point of
9 injury to the casualty collection or forward resuscitative surgery facility. The casualty may have
10 received no care or may have received care from a buddy, a field corpsman, or a medical officer.
11 MEDEVAC or tactical evacuation is the transport of patients from a casualty collection or
12 forward resuscitative surgery facility to a theater hospital.

13
14 **Protection under the Geneva Conventions.** Depending upon the designation of patient
15 evacuation assets, protection under the Geneva Conventions differs--

- 16
17 • **Dedicated evacuation assets** are configured for patient evacuation, externally marked with a
18 red cross and specifically dedicated to support the medical evacuation missions. Dedicated
19 assets need not be organic to the unit. Dedicated assets are authorized protection under the
20 Geneva Conventions. The Navy and Marine Corps do not have dedicated air evacuation
21 assets, except ground ambulances. Dedicated assets must only be used for medical purposes.
22 They should not be used to transport combat troops or equipment; otherwise, they will lose
23 their protection under the Geneva Conventions.
- 24
25 • **Designated evacuation assets** are those whose primary mission is non-medical, are not
26 externally marked, and are allocated on the ATO and configured for patient movement.
27 Designated evacuation assets are not afforded protection under the Geneva Conventions.
- 28
29 • **Lifts of opportunity** are usually non-medical conveyances used to move patients. They are
30 not protected under the Geneva Conventions. Lifts of opportunity have no organic medical
31 personnel or medical equipment assets; therefore, lifts of opportunity should only be used if
32 the patient condition warrants.

33
34 The limited number of MAGTF assault support aircraft precludes assignment of dedicated
35 casualty evacuation assets for an operation. Although many of these aircraft can perform this
36 mission, it will often be designated as a secondary or standby mission. Aviation doctrine for
37 casualty evacuation is found in MCWP 3-24, *Assault Support*, which places casualty evacuation
38 as one of the missions under the air evacuation subcategory of assault support.

39
40 In the absence of dedicated evacuation aircraft, doctrine dictates that during the HSS planning
41 process, prior planning with the MAW medical planner is essential to request either designated
42 or standby airframes to perform patient movement. Within the MEF, the FSSG HSSE conducts
43 planning for medical evacuation aircraft. In the absence of an aviation casualty evacuation
44 capability, casualty evacuation will be accomplished using any surface (water or ground)
45 transportation available (i.e., ground ambulance, MTRV, small boat, landing craft air cushion,
46 etc.).

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Casualty Sorting

Basic to the successful operation of a patient movement system is an effective process of casualty sorting also referred to as triage. Rapid evaluations must be made to identify which patients need immediate resuscitation and which can tolerate delay in treatment. Of equal importance, after initial treatment, is deciding which patients should be moved to other medical facilities.

Medical Management

Under combat conditions, the flow of sick and wounded puts variable pressure on capabilities of medical facilities. Incoming casualties create the necessity to move casualties who are stable and are capable of being evacuated. Close coordination between clinical and administrative services must be maintained to achieve effective management of individual casualties. Medical officers are responsible for decisions concerning movement of patients. They must work closely with administrative officers charged with conducting patient movement. Above all, the basic objective is preserving life and limb.

Evacuation Request Procedures

Normally, requesting units make casualty evacuation requests by radio to the helicopter direction center on the helicopter direction net when control is seabased, or the direct air support center (DASC) on the tactical air request/helicopter request (TAR/HR) net when command and /or net control has been passed ashore. The air officer will then consult with either the AF medical regulating control officer when sea based or the LF patient evacuation officer or Patient Evacuation Team (PET) when ashore for recommendations on the best medical facility.

When conducting operations ashore, the PET coordinates patient movement by either ground or air transport, or a combination of the two, from point of injury to Level II and between Levels I, II, and III MTFs. The DASC and patient evacuation team (PET) receive patient evacuation requests via the NATO 9-line MEDEVAC request over the TAR/HR net or alternate communication route. The PET then determines the appropriate means of patient movement and destination HSS facilities. If air is the appropriate evacuation means, the DASC coordinates air support. If ground evacuation is required or more appropriate, the PET informs the requesting unit to coordinate patient movement with the G-4 or CSSE and will assist as necessary. The PET will track all patient movement through completion of the mission.

Dependent upon the size of the operation, the PET might only assume responsibility for patient movement from point of injury to Level II and the FSSG HSSE /medical support operations center (MSOC) or higher regulating authority will assume movement above Level II. This would be decided prior to deployment and written into the Annex Q of the OPLAN or OPORD. During OIF, the 1st FSSG HSSE, as part of the G-3, was designated as the MSOC and functioned within the FSSG command center. The PET was collocated in the DASC to coordinate air evacuation and a smaller patient evacuation cell was collocated in the logistics movement (and engineering) control center for ground evacuation coordination.

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En Route Care

Medical evacuation and en route care have proven valuable in saving lives and conserving military manpower. The timely movement of patients to the appropriate levels of care reduces patient waiting time and allows facilities to relocate. The goals for en route care are to ensure the evacuation system can move critically ill or injured patients by the appropriate mode of transportation and preserve forward deployed medical personnel.

En route care requires the use of state-of-the-art; lightweight, critical care equipment to ensure the evacuation system is able to successfully transport a patient from the point of injury or illness to definitive care. En route care equipment will be standardized throughout the system, assuring rapid equipment exchanges and forward resupply, and will comply with flight-testing requirements.

En route care must be flexible and able to integrate with various modes of transportation, rotary/fixed-wing aircraft, and sea transport platforms. Important transportation factors of en route care are availability, mode, operational range, space, and lift limitations. Tactical factors must also be considered at each level of planning and implementing en route care.

En route care provides the capability to move stabilized patients. Essential care initiated prior to evacuation must be continuous. During transport, "stabilized" patients may continue to have physiologic and hemodynamic fluctuations, which may necessitate close monitoring and timely intervention.

During OIF, en route care was critical to the success of FRSS. En route care personnel were identified, trained, and equipped prior to stepping off the line of departure. Critical care nurses from the FSSG and EMFs provided en route care support to forward FRSS units. Forward FRSS units were weighted with en route care nurses during combat operations. Positioning en route care capability with forward medical elements proved to be very valuable, especially mitigating the amount of time required conducting a turnover of patient care to the en route care nurse.

The Marine Corps, en route care system (ERCS) is an essential follow-on for FRSS. The ERCS will be capable of supporting medical care for two critically injured/ill, but stabilized, patients for two hours. ERCS will provide a capability to support expeditionary maneuver warfare (EMW) by meeting an operational requirement to evacuate patients up to 200 nautical miles using designated medium lift aircraft. ERCS will be employed when the tactical situation requires prompt transport of critically injured/ill patients from forward collection and treatment elements to the shore or sea based treatment facilities. Less critically injured/ill patients will be transported using current protocols. Plans call for 60 ERCS equipment sets and 48 trained teams of ERCS personnel. Initial operational capability is expected in FY05 and full operational capability in FY06.

1 **Chapter 5**
2 **Dental Service Support**

3
4 The dental battalion, FSSG is organized and equipped to provide a full range of dental support to
5 the MEF. In garrison, the dental battalion provides comprehensive care to the operating forces to
6 maintain optimal dental readiness and health of deployable units. While deployed, dental service
7 support (DSS) detachments enhance combat power available to the commander to maximize the
8 return of dental casualties to duty while sustaining the dental readiness and health of operational
9 forces. Based on mission requirements, DSS uses flexible, lightweight expeditionary dental
10 equipment to provide task-organized dental detachments to support the dental care requirements
11 of deployed units.

12
13 **5001. Tenets**

14
15 DSS offers substantial operational dental support with particular attention to the following--

16
17 **Prevention**

18
19 Prevention of disease and injury is the most resource-efficient means of maintaining health.
20 Dental emergencies are minimized with appropriate treatment and continuous individual oral
21 hygiene.

22
23 **Return to Duty**

24
25 The primary objective of operational dentistry is to treat dental needs rapidly and return
26 personnel to their unit without degradation of mission performance.

27
28 **Scalable Dental Support**

29
30 The dental battalion has command and control of all dental personnel in garrison and can deploy
31 scalable task-organized components to provide dental support to any MAGTF.

32
33 The notional reinforced dental company consists of three to four dental platoons-ground (DP-Gs)
34 of six dental officers and nine dental technicians; and one dental platoon-air (DP-A). Each DP-A
35 consists of four wing detachments of one dental officer and two dental technicians each. Size
36 may vary depending on mission requirements. The smallest dental detachment is the dental
37 section (DS) that consists of one dental officer and one dental technician.

38
39 DP-Gs are assigned to support a surgical company. DP-As provide support to the MWSG. DSs
40 usually deploy in support of MEUs and special purpose MAGTFs. All components can provide
41 the same level of care for a wide range of missions to include military operations other than war
42 (MOOTW), low intensity conflict, and war. Each dental officer deploys with an expeditionary
43 dental system, ADAL.

44
45 **Enhanced Forward Care**
46

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1 Forward care reduces time and resources required to evacuate an individual for dental care. DS
2 detachments are organized to provide dental support as far forward as required. Each ADAL
3 contains a subassembly dental unit 2 that consists of two portable, lightweight dental modular
4 lightweight load-carrying equipment (MOLLE) backpacks that provide emergency dental care to
5 a limited number of casualties before resupply from the ADAL.

6
7 **5002. Mission of Marine Corps Dentistry.** The primary mission is to ensure the dental
8 readiness and optimize the dental health of Marine forces. In an operational environment, dental
9 will provide emergency dental care (to include early treatment of severe oral and maxillo-facial
10 injuries) and, when the mission allows, provide essential nonemergency care to include--

- 11
12 - Providing dental treatment as far forward as required to eliminate or reduce the effect
13 of dental disease and injury on mission accomplishment.
14 - Preventing oral disease.
15 - Promoting dental health.

16
17 The secondary mission is to augment medical personnel. Dental officers will assist in the
18 planning and deployment of dental assets, triage, patient stabilization, wound care, and forensic
19 identification. Dental technicians will assist with triage, patient stabilization, wound care, patient
20 care, and dental forensic identification. They will also perform central sterilization duties and
21 other ancillary duties related to their rate.

22
23 **5003. Organization of Field Dental Support**

24
25 The dental battalion commander has additional duties as the MEF and FSSG dental officer. As a
26 special staff officer, he advises the MEF and FSSG commanders on all professional,
27 administrative, and personnel matters relating to dental readiness and support. The MEF and
28 FSSG dental officer reviews OPORDS and OPLANS and recommends employment of available
29 dental assets to ensure optimum utilization.

30
31 The field dental care system maintains the dental readiness of the deployed force by preventing
32 and treating dental disease and injury. To accomplish this, dental support is based on a task-
33 organized, flexible structure that responds to rapidly changing conditions across the continuum
34 of missions to provide the required level of dental care. This task-organized support is based on-

- 35
36 - Size of the unit supported.
37 - Length of deployment.
38 - Mission (MOOTW, low intensity conflict, war).
39 - Other dental support requirements.

40
41 The mission of expeditionary DSS is to maximize combat power of operating forces through
42 maintenance of a dentally fit force and rapidly return dental casualties to duty. Consistent with
43 the tactical situation the spectrum of dental care provided encompasses expedient emergency
44 care to the full range of essential nonemergency care.

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Dental Platoon-Ground

The DP-G consists of six dental officers, nine dental technicians, and six ADALs. It is the dental component of the CSSE of the MEB. Though normally assigned to the surgical company, the DP-G can effectively function attached to any other unit organic to the CSSE able to provide transportation, facilities, and security support. The CSSE exercises operational control (OPCON) over the DP-G and is responsible for the logistics and security support.

Dental Platoon-Air

The DP-A consists of four wing detachments with one dental officer, two dental technicians, and one ADAL. It is attached to the MWSS and provides dental support to personnel assigned to the ACE. The ACE exercises OPCON over the DP-A and is responsible for the logistic and security support.

One DP-G and one DP-A support a MEB level force and provide emergency and essential non-emergency dental support to approximately 8-12,000 personnel using ADALs with enough supplies to support a defined patient stream for one month (estimated at 1,700 dental casualties).

Dental Section

The smallest module of dental support is a dental section (DS) and consists of one dental officer, one dental technician, and one ADAL. The DS is the dental component of the CSSD of the MAGTF. The CSSD exercises OPCON over the DS and is responsible for all logistic and security support. The DS provides emergency and essential nonemergency dental support to approximately 2,200 personnel using the ADAL to support a defined patient stream for one month (estimated at 175 dental casualties).

5004. Field Dentistry

Field dentistry requires employment of the same fundamental skills and standards of practice as employed in a garrison clinic. The limitations imposed by available equipment and the tactical situation requires flexibility, innovation, and expediency by the dentist and technician.

The primary objective of field dentistry is to provide dental treatment to the individual within the limitations of the tactical situation to rapidly return them to duty. Treatment may range from temporary symptomatic relief to more definitive dental care. In all cases, the dentist should maximize treatment in a single sitting to minimize return visits and lost duty time. This requirement places a great emphasis on the professional judgment of the practitioner and a need to reconcile patient needs with the tactical situation.

Dental patients will occasionally require casualty *evacuation* to higher levels of care. Depending on the tactical situation, the individual may require emergency treatment and expeditious *return to duty* with subsequent *referral* to higher levels of care when the tactical situation permits. When to *evacuate*, *return to duty*, and *refer* are matters of clinical judgment based on patient presentation.

1
2 **Evacuation.** Evacuation is the emergent transfer of a patient from a lower to a higher level of
3 care using available evacuation assets and established evacuation procedures.

4
5 **Return to Duty.** This assumes that a patient is capable of performing the mission in an austere
6 combat environment. Those individuals who are designated not fit for duty or who require
7 pharmaceutical regimens that impair performance, should not be returned to duty.

8
9 **Referral.** Referral is the non-emergent transfer of a patient from a dental treatment facility
10 (DTF) for follow-up treatment when the tactical situation permits.

11 12 **5005. Field Dental Equipment**

13
14 Marine Corps expeditionary dental systems are dental material sets designated the ADAL 662
15 (see Appendix C). The ADAL consists of the dental expeditionary field equipment, instruments,
16 consumables, and the Dental Unit 2.

17
18 Every dental officer assigned to a deployed platform is assigned an ADAL. This equipment
19 represents the latest in dental technology and is lightweight, compact, and rugged. It has limited
20 power demand and is highly mobile. In addition to emergency dental care it has the capability to
21 provide essential, nonemergency restorative, endodontic, periodontal, surgical and preventive
22 care depending on the assigned mission and tactical conditions.

23
24 The ADAL 662 is the main equipment block that consists of the operating and treatment unit,
25 field dental chair, dental hand pieces, operator and assistant stools, and assorted hand instruments
26 and tools. It provides the capability to provide limited emergency dental care in a highly mobile
27 environment. The ADAL contains an initial supply of consumables to treat 34 patient conditions
28 for a given patient stream for 30 days.

29
30 The Dental Unit 2 is a subassembly of the ADAL that contains basic equipment and consumable
31 supplies to provide emergency dental care for a limited number of dental conditions and patients.
32 This emergency dental kit is contained in two MOLLE bags and contains the minimum of
33 instruments and materials for simple extractions and expedient temporary restorations resulting
34 from trauma or acute dental disease. The Dental Unit 2 is intended for use when the tactical
35 situation precludes employment of the complete ADAL. For planning purposes the Dental Unit
36 II is configured to provide emergency care to 20 patients for seven days.

37
38 Dental sets are configured according to the level of dental care they are expected to support.
39 Logistic concerns (weight, cube, power requirements, and lift support) are important
40 configuration considerations in forward battlespace patient care and a lesser consideration in
41 those units to be employed further in the rear. Standardization of the material within the sets is
42 consistent with Marine Corps policy and Class VIII resupply requirements.

43 44 **5006. Patient Care Operations**

45

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1 Once the field DTF is established, patient care operations are accomplished similar to in garrison
2 DTFs. However, environment and tactical situations may influence whether definitive or
3 temporary emergency treatment can be provided. The objective is to expeditiously return
4 Service members to duty by attending to their dental needs.

5
6 DTFs will use SOP developed by the parent dental battalion and other cognizant higher authority
7 (HSS and CSS elements) that establish policy on such matters as patient flow, responsibilities,
8 equipment operation and maintenance, safety directives, and other pertinent matters.

9 10 **Deployment Log**

11
12 Deployed DSS detachments will maintain pertinent deployment information to include--

- 13 - Deployment start and end dates.
- 14 - Name of deployed unit.
- 15 - Number of personnel in the unit.
- 16 - Number of casualty evacuations or days lost due to dental disease or injury.
- 17 - Patient information including the name and rank.
- 18 - Date and time of visit.
- 19 - Reason for the visit to include:
 - 20 → Diagnosis
 - 21 → Treatment rendered
 - 22 → Whether it was emergency or essential, non-emergency care
 - 23 → Whether treatment was for DNBI or battle injury.
- 24 - Daily non-emergent information to include:
 - 25 → Equipment/supply issues
 - 26 → Medical combat skills data such as involvement with triage, wound
 - 27 management, forensics, combat stress, etc
 - 28 → Other data deemed important for that deployment

29
30 This log provides valuable information for unit after action reports and use by higher authority to
31 validate manning, ADAL configuration, and training requirements.

32 33 **Patient Dental Record**

34
35 The dental treatment record is deployed with the unit when circumstances permit and is
36 maintained by the DSS detachment. The nature of large operations makes records control
37 difficult resulting in many lost records. For such operations, if time and resources permit, dental
38 battalions may deploy summary dental records in lieu of the complete dental treatment record. A
39 summary dental record consists of duplicates of the most recent health questionnaire, dental
40 treatment entries from the last dental exam to the present, and the most recent bitewing and
41 pantographic radiographs. The type and number of the summary dental record remains the
42 discretion of the dental battalion commander. If a patient without a dental treatment record is
43 treated, a temporary record is made and maintained by the DSS detachment. This temporary
44 record consists of a health questionnaire, consent form and a Standard Form EZ 603-A. The
45 temporary record is incorporated into the patient's permanent dental treatment record when it
46 becomes available.

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Unit After Action Report

At the completion of the exercise or deployment a unit after action report is prepared using the DTF, pertinent patient treatment, and deployment log data. This report is submitted through the chain of command according to applicable instructions. It is the primary source of information on the dental care provided to the supported unit and to improve the delivery of dental care to deployed units.

5007. Preventive Dentistry

Dental health is the absence of dental disease and is the ultimate goal in dentistry. The incidence of dental disease increases under deployment conditions. Stress, exhaustion, inadequate nutrition, and poor oral hygiene measures are factors that degrade dental health. The in garrison dental organization and deployed DSS use a range of dental treatment and preventive programs to eliminate oral conditions that decrease performance and absence from duty. Prior to deployment, deploying personnel are given priority appointments to treat all urgent dental treatment conditions. Dental prophylaxis and individual oral hygiene instruction are also provided to ensure every Marine has the knowledge and skills to maintain oral health. During deployment DSS provides ongoing dental treatment and preventive dentistry programs to identify and treat personnel at risk for dental disease.

Field Oral Hygiene Instruction

Deployable personnel should receive additional oral hygiene instruction specific to the field environment. Concepts covered include--

- Importance of oral hygiene to combat fitness.
- Use of fluoridated toothpaste.
- Alternative methods of hygiene in the absence of garrison-type facilities.
- Procedures on how to seek dental services while deployed.

Infection Control

Infection control is a critical requirement in a field environment. The demands for proper infection control in the field are frequently greater than in garrison due to undesirable environmental conditions. The current BUMEDINST 6600.10. *Dental Infection Control Program* series provides specific guidance and can be adapted to the field environment.

Infectious Waste Management

Proper handling and disposal of waste is required to protect the force and the environment and to fulfill agreements with the host nation (HN). In general terms, the unit generating the waste will insure proper collection and disposal. Assistance is normally available through the supporting engineer unit, the PM team or the local MTF.

Hazardous Waste

1
2 DSS normally generates small quantities of hazardous waste in the field environment that should
3 be disposed of in a manner that minimizes environmental impact. Preventive medicine and
4 engineer personnel can advise DSS on the proper disposal of waste.

5
6 **Medical Waste**

7
8 Medical waste such as blood and blood products and surgical waste are produced during dental
9 procedures. Medical waste may be sterilized and disposed of along with general waste. Fluid
10 wastes collected through oral evacuation apparatus should be disposed of along with human
11 wastes. Contaminated needles and other sharp items requiring special handling should be stored
12 in clearly marked, puncture-proof containers with a tight-fitting lid until disposal. Large
13 quantities of medical waste should be collected in impervious containers if available or double
14 plastic bags as an alternative. Containers must be clearly marked with the universal biological
15 hazard symbol or labeled consistent with the unit SOP.

16
17 **5008. Alternate Dental Service Support Roles**

18
19 Frequently DSS is called upon to provide additional services in support of the OPLAN besides
20 providing dental services to the deployed units.

21
22 DSS provides dental care to operating forces and other designated beneficiaries (civilian,
23 indigenous population, detainees and EPW) in the AO. Priority for treatment is based on
24 command directives, the patient's medical/dental condition, availability of resources, negotiated
25 agreements, and applicable laws and conventions.

26
27 Dental civic action projects are generally associated with "nation assistance" but may also be
28 requested in more conventional conflicts as part of the overall post-conflict civil affairs
29 operations.

30
31 Alternate augmentation of medical treatment during mass casualty operations.

32
33 Post mortem and forensic identification of casualty remains is not doctrinally an HSS mission.
34 However, dental personnel are uniquely qualified to support such operations when needed in the
35 identification process.

36
37 Military animals, particularly working dogs, are used in the AO and are subject to dental injuries,
38 specifically fractured teeth. Dental officers may be called upon to assist the Army veterinary
39 staff in the restoration or treatment of these injuries.

40
41 **5009. Dental Operations In Military Operations Other Than War**

42
43 DSS assets have the potential to be important contributors during low intensity conflict
44 operations. Their primary role is to provide dental support to facilitate mission accomplishment
45 but can be used to conduct humanitarian and civic assistance (HCA) programs in concert with
46 the HN.

1
2 As with any HCA program, dental operations contribute to the internal development and stability
3 of the HN and combating political mobilization by opposing forces. Dental health programs help
4 demonstrate to the local community an important measure of accomplishment and progress on
5 the part of the HN. Means of improving the dental health of the population include--

6
7 - Assistance in the planning and establishment of local dental health care delivery
8 systems.

9
10 - Training programs for HN dental care providers. These training programs should be
11 directed not only toward direct dental care, but also toward a methodology for
12 evaluating the community's oral health and developing programs for improving the
13 level of oral health.

14
15 - Community oral health education programs.

16
17 Dental care provided as part of an HCA operation is a highly effective, yet inexpensive means of
18 producing an immediate impact on a target population. Unlike many medical ailments that may
19 take days or months to resolve, permanent relief from the pain caused by dental disease can be
20 achieved quickly. Simple dental treatment frequently conveys immediate goodwill through the
21 aid provided to the HN population. Regardless of the level of treatment provided, oral health
22 education should be an integral part of the overall program.

23
24 DSS is capable of conducting HCA operations independently or in concert with other health care
25 assets. Dental personnel can also augment nonmedical units, such as engineers, and are
26 particularly effective in augmenting the HCA operations of FSSG units. Dental operations in
27 low intensity conflicts require a high degree of flexibility and initiative. The senior dental officer
28 present must be prepared to advise the command surgeon and the operational commander as to
29 the best possible use of available dental assets. The overriding consideration in the planning of
30 dental HCA operations is to ensure that operations are conducted in concert with the HN and is
31 consistent with the HN's dental health and security objectives.

32 33 **5010. Dental Support for Peacekeeping Operations**

34
35 DSS may be requested to provide dental care in peacekeeping operations to the peacekeeping
36 force to include as a minimum emergency care and when time and resources permit sustaining
37 care. Conduct of dental HCA operations must be consistent with the peacekeeping charter and
38 approved by the command authority.

39 40 **5011. Dental Support Of Medical Treatment Facilities During A Mass Casualty**

41
42 When a dental unit is collocated with an MTF (surgical company, STP), collective use of the
43 DSS in mass casualty situations may be advantageous. Austere medical resources require
44 maximum use of dental assets in preparing for mass casualty situations. When additional
45 treatment space is required, use of the adjacent DTF is incorporated into the collective utilization
46 option. The DSS T/E can be used to support the medical augmentation roles, particularly when

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1 treatment provided in the DTF is limited to minimal-category casualties. The following
2 assistance may be provided--

3
4 **Shelter** - The DTF offers a climate-controlled shelter suitable for the conduct of patient
5 treatment. This benefit significantly increases when the DTF is set up in or near the MTF
6 complex.

7
8 **Dental Equipment Sets** - The ADAL contains materials and instruments that can be used to
9 perform minor surgical procedures such as anesthetic, scalpels, forceps, hemostats, suture
10 material, and wire ligature. DTFs are equipped with simple medical and resuscitative equipment
11 that can provide basic cardio-pulmonary resuscitation and other common medical emergencies.

12
13 **Planning and Coordination** - The DTF commander upon arrival at a site collocated with an
14 MTF should coordinate with the MTF commander on a plan for use of the DTF's resources in
15 the event the MTF is overwhelmed. Once a plan is established, it should be rehearsed at the
16 earliest opportunity.

Chapter 6 Planning

Comprehensive planning is essential for any operation to succeed. The mechanics of HSS planning for MAGTF operations essentially follow the same course as planning processes for any other part of operational support. The mission assigned; commander's analysis and interpretation of the mission, and planning guidance issued by the commander to his staff form the parameters for HSS planning.

HSS planning must be continuous, directed toward accomplishing missions and tasks on a day-to-day basis, and must be flexible to a degree that will accommodate variations that may be imposed. HSS planning must be accomplished with overall operational and logistic support planning. Development of an efficient plan for a MAGTF operation depends on the combined and coordinated efforts of all involved commanders and their staffs. Since MAGTF operations are inherently complex, plans at every level must provide for support that is complete, functional, and flexible to the maximum degree consistent with available resources. A clear understanding of staff planning is based on knowledge of the characteristics, methods, and objectives of the overall operational planning process.

6001. Marine Corps Planning Process

The Marine Corps Planning Process establishes procedures for analyzing a mission, developing and wargaming courses of action (COAs) against the threat, comparing friendly COAs against the commander's criteria and each other, selecting a COA, preparing an OPORD or OPLAN for execution, and transitioning the OPORD or OPLAN to those tasked with its execution. The Marine Corps Planning Process organizes these procedures into six manageable, logical steps. These steps provide the commander and his staff, at all levels, a means to organize their planning activities, to transmit plans to subordinates and subordinate commands, and to share a common understanding of the mission and commander's intent. For a more thorough review of the Marine Corps Planning Process see MCWP 5-1.

6002. HSS Planning Responsibilities Unique to Amphibious Operations

Because their plans are mutually supporting, detailed, coordinated, and parallel planning is required between ESG and LF surgeons. Both the ESG and LF surgeons have specific HSS planning responsibilities. See JP 3-02, *Joint Doctrine for Amphibious Operations*. ESG and LF surgeons and their staffs should be familiar with these responsibilities.

Expeditionary Strike Group Surgeon

Provides HSS for all embarked personnel between point of embarkation and the objective area.

Provides HSS personnel, supplies, and equipment for all naval units based ashore and not attached to the LF.

Evacuates casualties from the beach to CRTS and casualty holding afloat within the AOA.

1
2 Coordinates for evacuation by ship or air from the AOA to medical facilities outside of the
3 objective area.

4
5 Coordinates for air transport of Class VIII supplies and equipment.

6
7 Forms, in conjunction with the LF commander, evacuation policy for the operation.

8
9 Promulgates HSS requirements and standards for the civilian population in the AOA, when
10 higher authority does not prescribe these.

11
12 Forms the task force evacuation net.

13
14 **Landing Force Surgeon**

15
16 Landing force HSS plans are based upon and support the plans and policies of the LF. They must
17 also complement the HSS plans of the TF. The LF surgeon is responsible for the following, and
18 prepares plans accordingly.

19
20 - Providing HSS for the LF before embarkation.

21
22 - Assisting ships' medical departments in providing medical care for embarked LF personnel.

23
24 - Evacuating casualties from within the LF area to beach evacuation facilities.

25
26 - Providing HSS care for personnel ashore in the objective area, for whom care is not otherwise
27 provided.

28
29 - Making recommendations to ESG commander concerning the evacuation policy for the
30 operation.

31
32 - Identifying and requesting external HSS to fulfill requirements that are beyond the capability
33 of LF HSS elements.

34
35 - Determining requirements for HSS supply and resupply for LF HSS units.

36
37 - Establishing facilities for emergency treatment and casualty holding ashore.

38
39 - Ensuring continuity of the task force evacuation net to coordinate the movement of casualties
40 after control passes to LF commander.

41
42 **6003. Sequence of Command and Staff Planning for Health Service Support**

43
44 HSS planning begins with the issuance of the commander's planning guidance to his staff. The
45 commander's guidance includes his analysis of the mission, factors to be considered, and COAs
46 to be analyzed. The MAGTF surgeon participates in the COA development and wargaming of

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1 each COA and prepares a comprehensive estimate of HSS factors that may affect
2 accomplishment of the mission, in light of each proposed COA. The HSS estimate provides the
3 commander with a portion of the information he must consider in deciding the COA for the
4 operation. After considering and comparing each COA against established criteria and against
5 each other then the commander selects the COA that best accomplishes the mission. HSS
6 planning continues in detail after the commander announces his decision and concept of
7 operations. Much of the material included in the HSS plan will have been developed prior to
8 preparation of the medical estimate. This material should be reviewed, refined, and updated as
9 necessary.

11 **Medical Estimate**

13 The medical estimate requires significant research, along with concurrent, parallel, and detailed
14 planning. Effective planning cannot be conducted in a vacuum. The medical estimate serves four
15 purposes--

- 17 - Assesses medical capabilities and limitations.
- 18 - Determines if medical capabilities are sufficient to support the proposed COAs.
- 19 - Determines which COA is most desirable from a medical standpoint.
- 20 - Determines what measures the commander and his staff must take to overcome limiting factors.

22 The actual format used will be directed by the cognizant G-3/S-3 based on guidance from higher
23 headquarters. It is imperative that the staff estimates and estimates of supportability be reviewed
24 throughout the planning process including the mission analysis, COA development, COA
25 wargame, and the COA decision. See MCWP 5-1 for further details in estimate development.

27 **Decisions/Recommendations**

29 The MAGTF surgeon prepares an HSS estimate on the proposed COA that provides analysis and
30 identifies the advantages and disadvantages of each, from a medical view. Based on his analysis,
31 he recommends a COA.

33 **HSS Concept of Operations**

35 The commander will consider the results of wargaming, examine the staff estimates, and
36 determine a desired COA. At this point, the MAGTF surgeon develops an HSS plan and concept
37 of operations to support the commander's decision. This plan contains information and
38 instructions outlining HSS support requirements for the MAGTF during the operation. It is most
39 often issued as annex Q (Medical Services) or in annex P (Host-Nation Support) (if working in a
40 joint/combined operation), but may vary depending on guidance provided by higher authority.

42 **6004. Medical Services Annex**

44 The concept of operations for health services is in annex Q (Medical Services) of the OPLAN.
45 The medical services annex contains information on HSS support requirements during an
46 operation, including deployment planning, and external support requirements. It is directive in

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1 nature; its purpose is to direct HSS efforts during the operation. It compiles HSS requirements
2 from sources external to the MAGTF, and addresses elements of support requiring close
3 coordination with other Services, Joint Chiefs of Staff, DOD, or HNs. It sets policy, specific
4 tasks and responsibilities, and directs the employment of medical assets organic to the GCE,
5 ACE, and CSSE of the MAGTF from embarkation to D-day and after. Annex Q is normally
6 prepared at MEF, MEB, and MEU levels. The completed medical services annex should--

7
8 State the HSS situation.

9
10 State the evacuation policy.

11
12 Clearly delineate organization, responsibilities, and employment of HSS system elements, with
13 emphasis on shifts in responsibilities during the operation and on measures necessary to ensure
14 coordinated action by all HSS elements of the task force.

15
16 Project time phased bed requirements, to include planned locations of facilities available to
17 provide support and casualty overload plans.

18
19 Provide plans on accessing HSS available from sources external to the MAGTF.

20
21 Provide plans for HSS in conjunction with evacuation of casualties from AOA.

22
23 Address HSS supply, including prescribed load, replenishment of supplies and exchange of
24 equipment.

25
26 Address procedures and responsibilities for recordkeeping and casualty reporting.

27
28 Address provisions for HSS while afloat.

29
30 Address procedures for obtaining medical intelligence.

31
32 Identify EH threats. Evaluate and plan appropriate responses to environmental and occupational
33 health stressors.

34
35 Ensure necessary EH controls are planned for and carried out for food procurement, potable
36 water, waste disposal, general field sanitation, personal hygiene, vector control, agricultural
37 washdowns and other necessary public health measures.

38
39 Address PM; NBC warfare medicine; dental; veterinary medicine; hygiene; and sanitation.

40
41 Address procedures for obtaining and distributing blood and blood products.

42
43 Address responsibilities of US Forces in rendering medical care to allied forces, EPWs, and
44 indigenous civilians.

45
46 Address available HNS and types.

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6005. Transition: Phases of Expeditionary Operation

Expeditionary operations include the full spectrum of Marine Corps operations including amphibious operations, MPF operations, and the deployment of an air contingency MAGTF. These operations can be divided into five phases--

- Predeployment
- Deployment
- Entry
- Enabling and Decisive actions
- Redeployment

Predeployment

Predeployment actions include the organization of the deployment to ensure that forces arrive in the objective area in a logical sequence, at the right time, and with the correct equipment and sustainment to support the concept of operation. Regardless of the deployment mode, predeployment preparation and deployment are complex undertakings that require the accomplishment of numerous tasks. In crisis response, the time available to accomplish these tasks is limited. Some HSS predeployment considerations are--

- Conduct predeployment health screening.
- HSS components are properly staffed and trained to support the concept of operation.
- HSS equipment and supplies are in sufficient repair and quantity for the mission.
- Responsive resupply mechanisms are in place.
- Liaison with all MAGTF, joint, and coalition components is established.
- Immunizations and medicines for endemic diseases are procured and/or administered.
- HNS and availability of nongovernmental organizations and international governmental organizations.
- Train individuals through unit training in personal hygiene and field sanitation.
- Ensure predeployment health threat briefs and health screening questionnaires are completed.
- Assist medical units in completing predeployment requirements (specifically immunizations), and make preparations for embarkation of PM equipment.

Deployment

- 1
2 Deployment planning and execution are challenges for even the most experienced and skilled
3 logisticians. Transportation modes vary depending on the size, purpose, and duration of
4 deployment. Deployment of a MEF requires the use of all modes of transportation. This
5 includes--
6
7 - Military or commercial ground transportation.
8
9 - Amphibious or commercial ships.
10
11 - Air Mobility Command or commercial charter airlift for personnel, supplies, and equipment.
12
13 Some HSS predeployment considerations are--
14
15 - Ensure that health service personnel organic to the MAGTF embark with their units.
16
17 - To the maximum degree possible, BAS, STP, and forward resuscitative surgery equipment and
18 supplies should be mobile loaded.
19
20 - For amphibious operations HSS personnel and class VIII material should be spread loaded
21 among ships of the ESG, to the maximum degree practicable. However, this should not be
22 accomplished at the expense of separating personnel from the equipment they will be using
23 ashore. It is important that personnel of HSS elements embark on vessels carrying their parent
24 unit's equipment and supplies.
25
26 - Ensure all medical personnel, equipment, and supplies are registered on the Joint Operation
27 Planning and Execution System time-phased force and deployment data.
28
29 - Spread load medical personnel and supplies during deployment to ensure complete coverage.
30
31 - Disseminate military significant PM information to commanders and HSS units in the theater of
32 operation.
33
34 - Conduct pre-site surveys and campsite selection recommendations.
35
36 - Provide technical oversight on food service operations and procurement.
37
38 - Provide oversight and testing at water points and bulk water storage areas, ice
39 manufacturing process and bottled water plants.
40
41 - Conduct pest surveillance and control.
42
43 - Maintain EH and pest control equipment.
44
45 - Conduct weekly DNBI surveillance and report findings through the proper chain of
46 command. Implement necessary countermeasures to reduce or eliminate DNBI threats.

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Entry

Entry refers to the initial introduction of forces onto foreign soil where no prior presence exists. During this phase, expeditionary forces are often at greatest risk, and for this reason, the introduction of forces is often a complicated military evolution. The most difficult type of entry is forcible entry, which refers to the initial introduction of forces into a hostile environment via combat in the face of active resistance. Not all expeditionary operations require forcible entry, although it is unavoidable in the absence of any secure point of entry. Many expeditionary operations involve the introduction of forces into a permissive environment or an environment that has not yet turned hostile. There are situations in which a regional presence, not actual entry, may accomplish the mission, although the perceived willingness and capability to introduce forces remains fundamental.

Amphibious Operations. An amphibious operation is a military operation launched from the sea by an amphibious force, embarked in ships or craft with the primary purpose of introducing a Landing force ashore to accomplish the assigned mission. The five phases of an amphibious operation are planning, embarkation, rehearsal, movement, and action. Sound planning provides a basis for successful execution. HSS personnel should use this opportunity to-

Test the adequacy of HSS plans.

Test medical evacuation nets and medical command and control nets.

Check individual readiness.

Ensure that HSS personnel in all units are familiar with the HSS plans.

Maritime Pre-positioning Force Operations. An MPF operation is the rapid deployment and assembly of a MAGTF in a secure area using a combination of strategic airlift, tactical self-deploying aircraft, and forward-deployed MPS. MPF operations are a strategic deployment option that is global in nature, naval in character, and suitable for employment in a variety of circumstances. The essential strategic contribution of MPF operations is the mobility and flexibility that allows the concentration of forces quickly in a designated area.

Amphibious and MPF operations are complimentary capabilities; however, one is not an equivalent substitute for the other. Amphibious operations provide the means for forcible entry, while MPF operations permit rapid deployment into permissive areas where force introduction is essentially unopposed and is expected to remain so through the arrival and assembly phase. Amphibious operations can be used in the same environment as MPF operations, but the reverse is not true.

MPF operations involve airlifting MAGTF and Navy support element personnel into a HN arrival and assembly area to join with equipment and supplies prepositioned aboard MPSs. MPF includes the combination of prepositioned and airlifted materiel of a MEF with 30 days sustainment. Smaller MAGTFs may be sustained for a greater or lesser time depending on the

1 size of the force, the number of MPS involved, and other variables.

2
3 **HSS Considerations**

4
5 - Receiving, preparing, and distributing medical supplies and equipment.

6
7 - Providing Level I care upon landing.

8
9 - Identifying HN and inter-Service support.

10
11 - Coordinate the transport of personnel, equipment, and supplies.

12
13 - Inventory equipment and supplies for serviceability.

14
15 - Identify resupply sources.

16
17 **Air Contingency MAGTF Operations.** Air contingency MAGTF operations are task-
18 organized, air-deployable forces. An air contingency MAGTF consists of lead elements ready to
19 deploy within hours of notification. These elements deploy to a secure area for subsequent
20 employment. The MAGTF is task-organized to meet the mission, the threat, and the available
21 airlift. Air contingency MAGTFs can be used as part of the fly-in echelon of an MPF, as
22 reinforcement for an AF, or as the lead element of a MEF.

23
24 **Enabling and Decisive Actions**

25
26 Enabling actions refer to those preparatory actions taken by the expeditionary force after entry
27 and establishment of the mission. Follow-on forces typically follow initial forces, which have
28 undertaken enabling actions designed to set the stage for the eventual decisive actions. Enabling
29 actions may include seizing a port, airfield, or other lodgment to facilitate the secure introduction
30 of follow-on forces. In cases of disaster or disruption, enabling actions usually involve the initial
31 restoration of order or stability. In the case of open warfare, enabling actions may involve
32 operations to halt or delay an enemy advance, to attack certain enemy military capabilities, or to
33 capture key terrain necessary for the conduct of decisive operations.

34
35 Decisive actions are those actions intended to create conditions that will accomplish the mission.
36 In disasters, decisive actions include relief operations. In disruptions, they often include
37 peacemaking and peacekeeping until local government control can be re-established. In conflict,
38 they usually involve the military defeat of the enemy's fighting forces.

39
40 **Redeployment**

41
42 Because expeditions are by definition temporary, all expeditionary operations involve a
43 departure of the expeditionary force or a transition to a permanent presence of some sort.
44 Redeployment may be required by a change of mission, the assignment of additional missions
45 within the theater or in another theater, or return to the base of origin. The MAGTF's organic
46 sustainment and ability to quickly reorganize and reconstitute without having to first return to its

1 home base or await establishment of a theater logistics infrastructure prior to employment make
2 it unique.

3
4 **Sustainment.** The MAGTF's versatility stems from its naval, expeditionary character, which
5 enables it to not only respond quickly to contingencies, but also to shift rapidly between missions
6 in littoral regions of the world. The MAGTF has this capability even in the absence of a logistics
7 infrastructure ashore and before resupply channels from CONUS have been established. The
8 MAGTF's organic sustainment capability makes it capable of independent operations for periods
9 up to 60 days without resupply. Since the MAGTF is a lighter force, capable of operating with a
10 smaller footprint, within an austere environment, it is more easily sustained, places less demand
11 on lift, and simplifies the problems associated with redeployment.

12
13 **Reconstitution.** A MAGTF's endurance, based on its accompanying sustainment, and its
14 ability to maneuver at sea make it ideally suited for reconstitution and redeployment out of
15 theater within the limits of accompanying supplies. Commanders must ensure that requisitions
16 for replenishment are submitted commensurate with anticipated lead times for delivery.
17 Reconstitution in theater requires resupply to rebuild baseline levels of sustainment.

18 19 **6006. Health Service Support Planning Considerations**

20
21 Evaluation of World War II, Korea, Vietnam, and Operation Desert Storm data has led to
22 development of the following maxims concerning combat medical support. They are offered for
23 their potential usefulness to personnel tasked with HSS planning. Medical planners must be
24 included throughout the entire planning process, including current and future operations
25 planning, to ensure the development of effective and responsive HSS.

26
27 Commanders at all levels are responsible for providing adequate and proper health care for their
28 troops.

29
30 HSS plans can be effectively executed only if they are based upon realistic HSS capabilities.

31
32 Health care for a patient must be continuous from the onset of injury or disease through the
33 levels of care to the facility capable of providing final treatment and disposition.

34
35 Casualty sorting and triage must occur at each medical facility in the chain of evacuation. A
36 patient is triaged at a receiving medical facility, and moved rearward only to the point where he
37 can receive the definitive care demanded by his condition.

38
39 HSS units of the Marine operating forces must retain the ability for rapid movement.

40
41 HSS units must be capable of being dispersed, for protection of assets, and to render the greatest
42 service to the greatest number.

43
44 Plans must be flexible to a degree that will ensure the mission can be accomplished despite
45 changes in the tactical situation.

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- 1 Most casualties will occur within infantry regiments. Medical treatment and evacuation facilities
2 must be situated accordingly.
- 3
- 4 Increasing the evacuation policy increases requirements for HSS in the AOA, but reduces
5 requirements for casualty evacuation transportation and personnel replacements.
- 6
- 7 Prompt triage, stabilization, and evacuation of casualties will result in increased numbers of lives
8 saved and wounded returned to duty. It will also decrease numbers of noneffective days and
9 reduce functional disability.
- 10
- 11 The need for evacuation decreases when medical facilities are located in close proximity to
12 forces in contact with the enemy.
- 13
- 14 When the decision is made that a member cannot be returned to duty within the limits of the
15 evacuation policy, he should be evacuated from the theater as quickly as his condition permits.
- 16
- 17 Maintaining a continuous awareness of current DNBI rates and trends through disease
18 surveillance at all levels is critical to effective prevention programs.
- 19
- 20 Whenever possible use HNS.
- 21

Chapter 7 Supply

HSS supply encompasses the functions of procurement, initial issue, material management, resupply and disposition of material necessary to support medical and dental elements organic to the Marine operating forces. Requisitions for Class VIIIA (consumables and equipment) material follow the same channels as other classes of supply. Guidance for planning and procurement of Class VIIIB (blood products) is found in Navy medical publication (NAVMED) P-6530, *Joint Blood Program Handbook*. **Class VIIIA supply must not burden HSS facilities with excess material on the battlefield. Material managers must provide Class VIIIA support that will enhance HSS unit's ability to establish, displace, and rapidly relocate.**

7001. Allowances and Source of Supply

Medical and dental material support of the Marine Corps is the responsibility of the MAGTF commander and is provided in three general forms--

- T/E
- AMAL/ADALs
- Normal replenishment supply support

A unit's T/E includes items necessary for basic support of the organization. Examples of this type of equipment include tentage, vehicles, tools, communications equipment, NBC gear, specialized clothing, office equipment, etc. AMAL/ADALs are specialized equipment and supplies allocated to medical and dental elements and cover capability for trauma management; resuscitative surgery; expeditionary laboratory; pharmacy; x-ray; dental; PM; NBC treatment; patient holding; sick call; and HSS test and repair systems.

The total T/E and capability sets are designed to support the MEF for an estimated 60 days of combat. The MAGTF commander is responsible for ensuring that HSS capabilities are tailored to support the OPLAN. The AMAL/ADALs must be allocated to support specific OPLAN requirements. Funding for AMAL/ADALs above the authorized level is the budgetary responsibility of the MAGTF commander authorizing the increased allowance.

7002. Initial Class VIIIA Combat Supply

All HSS elements of a MAGTF mount out with equipment and Class VIIIA consumable items sufficient for a projected 15 days (minimum) of combat support operations. Class VIIIA equipment and consumables sufficient for 3 to 5 days are initially brought ashore by the personnel of unit medical and evacuation sections of the AE. Vehicles, including ambulances, dedicated to HSS elements are combat loaded during mount out and used to bring initial Class VIIIA equipment and supplies ashore. Equipment and supplies remaining afloat are phased ashore as scheduled or on demand with later waves of the AE.

HSS supply channels in combat are illustrated in figure 7-1. Rapid replenishment of high use critical items in the initial stages of the assault is accomplished by prepackaging these items into

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1 specialized rapid resupply blocks. As the need occurs for such specialized supplies, supported
 2 units submit requests through their landed unit supply section to the tactical logistics group. In
 3 order for this system to be effective, requirements for specialized rapid resupply blocks must be
 4 identified and the materials packaged prior to initial embarkation.

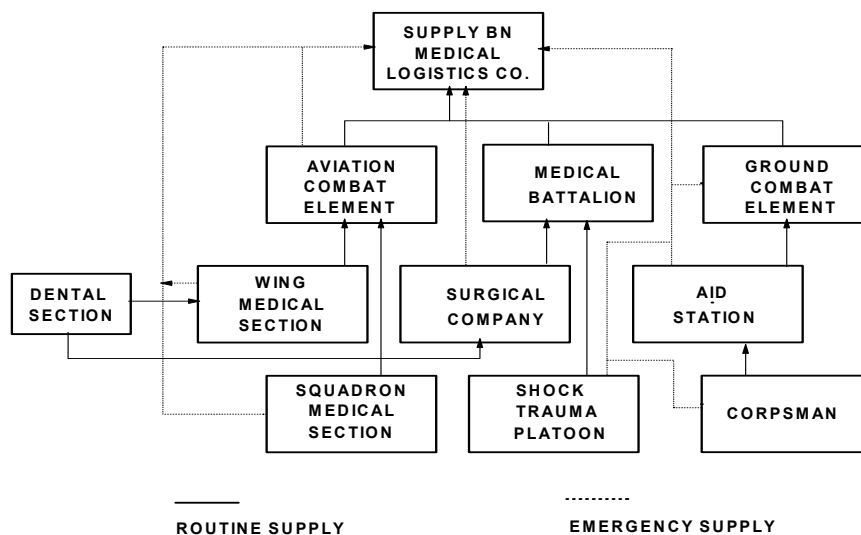
5
 6 Air delivery of emergency medical supplies can be used where and when tactically supportable.

7
 8 HSS units mobile load as much of their equipment and supplies as possible. In addition to
 9 organic motor transport, HSS units may require additional motor transport support. This
 10 requirement should be identified and requested in the planning process.

11
 12 Class VIIIA resupply and repair capabilities carried by the CSSE are landed during the general
 13 off-load (the phase of an amphibious operation after scheduled and nonscheduled waves have
 14 gone ashore) phase of an operation. Any supplies not issued should be available during the early
 15 stage of an operation.

16
 17 Elements of the MedLogCo, Supply Battalion, FSSG, are attached to the supply section of the
 18 CSSE to provide Class VIIIA resupply and, eventually, limited medical repair capabilities to all
 19 HSS units of the MAGTF.

20
 21 Supporting HSS units can, on an emergency basis, provide limited medical resupply to other
 22 HSS units of the MAGTF. This is in addition to the equipment exchange program.



25
 26 **Figure 7-1. Combat HSS Supply Channels.**

27
 28
 29 **7003. Individual HSS Equipment**

30
 31 All hospital corpsmen assigned to the Marine operating forces are assigned a complete first aid
 32 kit (MOLLE bag) as part of their field gear. These kits may be held by the unit organic supply

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1 section and issued on an as needed basis. The organic supply section is responsible for ensuring
2 that contents of the unit-I are maintained in good condition, and that medications have not
3 exceeded their shelf life. Dental officers will be issued a unit II, maintained by medical logistics
4 company.

6 **7004. Routine Resupply**

8 Resupply under all circumstances is a command responsibility. HSS personnel needing resupply
9 will forward requirements to their unit's supply section. The supply section will, in turn, pass the
10 requirement to the supported activities supply system (SASSY) management unit (SMU), or if
11 deployed, the supply section of the CSSE. It is the responsibility of the SMU/CSSE to obtain the
12 required material. In some cases, HSS personnel may be of assistance to the SMU/CSSE supply
13 officer by providing alternatives to either the material or supply sources, such as different
14 dosages or medical facilities of other services in or near the AO.

16 **7005. Combat Resupply**

18 During embarkation planning, the MAGTF commander will determine the number and type of
19 AMAL/ADALs required to support the initial assault phase of the planned operation. Additional
20 Class VIIIA equipment and consumable material are positioned for mount out with the
21 MedLogCo detachment within the supply section of the CSSE. After the consumable
22 AMAL/ADALs modules are issued and expended, or when directed, resupply is normally by line
23 item requisition from the supporting CSSE.

25 **7006. Patient Movement Items and Equipment Exchange**

27 Under the patient movement items (PMIs) equipment exchange program patients will be
28 evacuated with all available medical material items and chemical warfare protective gear in
29 accordance with established theater operations policy. To ensure the necessary levels of PMIs
30 are on hand, equipment exchange must be practiced at all levels in the chain of evacuation. Its
31 value in a combat environment cannot be over stressed. Blankets, litters, casualty evacuation
32 bags, splints and like items delivered with an incoming patient must be immediately replaced by
33 units receiving patients. Treatment facilities in the chain of evacuation are able to maintain
34 adequate number of such items only through an exchange system. Cognizant commanders
35 should apply prompt corrective action at any point where the exchange system is failing.

37 Medical planners involved with patient evacuation systems of other Services should ensure that
38 other service medical planners coordinate to provide initial and follow-on PMIs to support
39 equipment exchange. Prior liaison is essential in ensuring that incoming patient evacuation
40 transportation is adequately equipped to handle the casualties and make PMI exchanges. In joint
41 operations, a theater equipment pool may be established by the joint force commander to reduce
42 medical equipment shortfalls within theater. The theater equipment pool and HSS units work to
43 resupply and or refurbish critical PMIs so they are available to meet patient movement
44 requirements.

46 **7007. Disposal of Materials**

1
2 Disposal of soiled, contaminated, or other unusable Class VIIIA material must be accomplished
3 with due consideration for the safety of US forces and local civilian populations. Disposal must
4 also be in compliance with local and international laws, ordinances, or customs governing such
5 disposal whenever operations allow. When disposal takes place in the US or its territories, Class
6 VIIIA disposal is coordinated with the local office of the Defense Reutilization Marketing
7 Office. Peacetime disposal overseas is coordinated under the guidance of the Defense
8 Reutilization Marketing Office or CSSE.

9
10 When the tactical situation permits, during combat operations, the safest method of field disposal
11 is burning, followed by deep burial (over 6 feet). The burial site should be a safe distance from
12 watersheds and populated areas. Responsibility for neutralization and disposal of clothing,
13 equipment, and dressings removed during NBC decontamination processes resides with the
14 major subordinate command NBC officer.

15
16 Disposal of body parts and tissues obtained during operative or diagnostic procedures is,
17 preferably, accomplished in the same manner as used by local medical facilities or instructions
18 provided by the major subordinate commander J-5/G-5 section. Alternative disposal by burning
19 or deep burial requires prior authorization and specific guidance of the major subordinate
20 commander J-5/G-5 section. Prior coordination with local health authorities and religious
21 leaders should be accomplished when possible.

22 23 **7008. Protection of Medical Supplies**

24
25 Medical material and supplies are protected under the Law of Land Warfare and the Geneva
26 Conventions. However, when medical material and supplies are mixed with combat supplies,
27 they lose the protection afforded by these covenants. Marking medical material and supply
28 storage areas with the Red Cross of the Geneva Conventions is a tactical decision to be made by
29 the area commander. Geneva Conventions and the Law of Land Warfare prohibit destroying
30 medical material and supplies that must be abandoned in a retrograde movement occasioned by
31 enemy action or other tactical consideration.

32
33 **NOTE: Never collocate Class VIII and Class V supplies because it will jeopardize the**
34 **protective status of medical materiel under the Hague and Geneva Conventions.**

35 36 **7009. Single Integrated Medical Logistics Manager**

37
38 **When two or more Services are operating within the combatant commander's area of**
39 **responsibility, a Service may be designated as the single integrated medical logistics**
40 **manager (SIMLM). The SIMLM system encompasses the provision of medical supplies,**
41 **medical equipment maintenance and repair, blood management, and optical fabrication to all**
42 **joint forces within the theater of operations including, on an emergency basis, United States**
43 **Navy ships for common-use items. By exercising directive authority over the health service**
44 **logistic support arena for the accomplishment of assigned missions, the combatant commander**
45 **can centralize control, reduce duplication of services, and provide the support in a more**
46 **economical and efficient manner. Further, it is the combatant commander's responsibility to**

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1 ensure coordination occurs among the Services' health service logistics systems so that critical
2 health service logistics resources are properly allocated, and that medical materiel requirements
3 are accurately stated. The SIMLM assumes responsibility for planning and executing the health
4 service logistic support mission for common-use medical items in that AOR.

5
6 In the European and Korean theaters, the US Army has been designated as the SIMLM.
7 Although the US Army may be designated as the SIMLM in future missions because of a larger
8 commitment of ground forces, each Service should devise plans in the event they are designated
9 the SIMLM.

10
11 Service components are required to resupply their respective units until the SIMLM is
12 established and operational. This will usually occur no earlier than D+60.

13

Chapter 8 Casualty Reporting

The G-1/S-1 section is responsible for submitting prompt, accurate, and complete casualty reports to higher headquarters. In combat operations, unit corpsmen and medical treatment facilities are primary sources of individual casualty data. Personnel must be thoroughly familiar with casualty reporting procedures. Casualty reporting is addressed in Marine Corps order (MCO) P3040.4, *Marine Corps Casualty Procedure Manual (MARCORCASPROC MAN)* and other local directives in the 3040 series. The system described in these directives is essentially one in which personnel losses, regardless of cause, are reported through the chain of command to a central location. Figure 8-1 illustrates the flow of casualty information from medical personnel and medical treatment facilities upward through the chain of command.

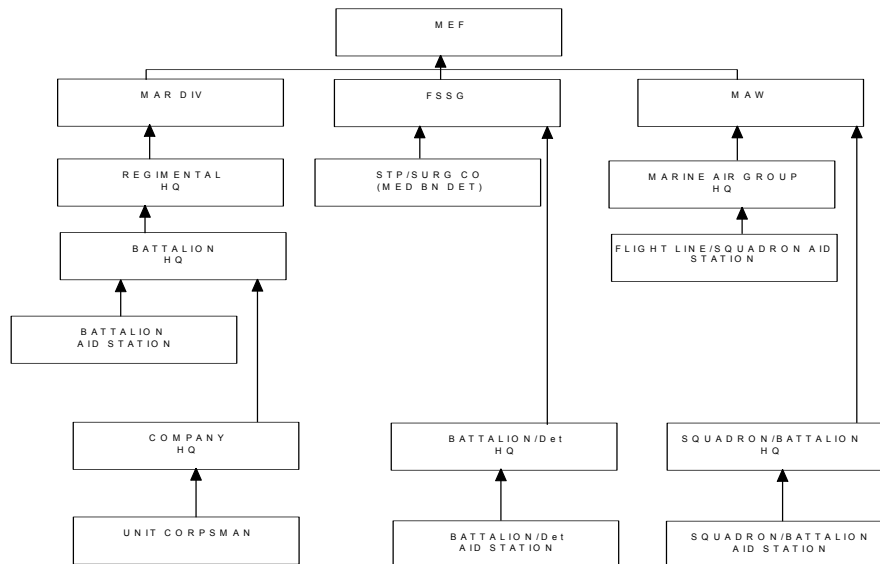
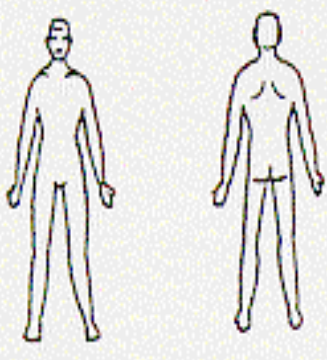


Figure 8-1. Casualty Reporting in the MEF.

8001. US Field Medical Card (DD Form 1380)

Hospital corpsmen at the unit level usually provide the first written information on a casualty through the use of a US Field Medical Card (FMC) (DD Form 1380). See figure 8-2. It is actually a casualty tag printed in a set that provides a hardened original copy for attaching to the casualty (whether wounded or deceased). A carbon copy is retained by the hospital corpsman rendering initial treatment. Hospital corpsmen must render initial casualty treatment promptly and deliver copies of FMCs to the unit commander or his representative. Unit commanders need these documents to carry out casualty reporting responsibilities through their chain of command, as required by the MARCORCASPROC MAN.

① Name / Nom		Male / Masculin	
		Female / Féminin	
SSN / NAS		Unit / Unité	Rank / Rang
② Force / Element		Specialty Code / GPM	IC/IEC
A/T	AP/A	N/M	MC/M
Nationality / Pays		Religion / Religion	Dentist / Médecin Psych / Psych
③ Injury / Blessure		Head / Tête	
Front / Devant		Neck / Back Injury / Blessure Au Cou / Au Dos	
Back / Arrière		Fracture / Fracture	
		Aspiration / Aspiration	
		Wound / Blessure	
		Burn / Brûlure	
		Stress / Tension	
		(Other (Specify) / Autre (Spécifier))	
④ Level of Consciousness / Niveau de Conscience			
Alert / Alerte		Pain Response / Réponse à la Douleur	
Verbal Response / Réponse Verbale		Unresponsive / Sans Réponse	
⑤ Pulse / Pouls	Time / Heure	⑥ Temperature / Température	Time / Heure
		No/Non	Yes/Oui
⑦ Morphine / Morphine	Dose/Dose	⑧ IV / IV	Time / Heure
No/Non	Yes/Oui		
⑨ Treatment / Observations / Care / Médication / Allergies / NBC (Asbestos) Traitement / Observations / Prescrite Médication / Allergies / Asbestos			
⑩ Disposition / Disposition		Returned to Duty / Retour à L'Unité	Time / Heure
		Excused / Excuse	
		Deceased / Décédé	
⑪ Provider / Unit / Officer Medical / Unité		Date / Date	

DD Form 1380 TEST-2 Jun 90 U.S. FIELD MEDICAL CARD
FICHE MÉDICALE DE CAMPAGNE ETATS-UNIS

⑫ Reassessment / Réévaluation	
Date / Date	⑬ Time of Arrival / Heure D'Arrivée
Time / Heure	
BP / PS	
Pulse / Pouls	
Resp / Resp	
Date / Time / Date / Heure	⑭ Clinical Comments / Diagnosis / Informations Médicales / Diagnostiques
	⑮ Orders / Antibiotics (Specify) / Trauma / IV Fluids / Diverses Médications / Antibiotiques (Spécifier) / Trauma / IV Fluids
⑯ Provider / Officer Medical	
Date / Date	
⑰ Disposition / Disposition	Returned to Duty / Retour à L'Unité
	Excused / Excuse
	Deceased / Décédé
⑱ Religious Services / Services Religieux	
Reported / Rapporté	Confession / Confession
Assisting / Assisté	Prayer / Prière
Chaplain / Chapelain	(Other (Specify) / Autre (Spécifier))

DD Form 1380 TEST-2 Jun 90

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Figure 8-2. US Field Medical Card (DD Form 1380).

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1 When initial casualty treatment is rendered at a BAS or other medical treatment facility, an FMC
2 is initiated and a copy forwarded through the medical treatment facility's chain of command.
3 Regardless of whether a casualty is received in a medical treatment facility with or without a
4 FMC, the receiving facility will compile a casualty list and forward the list upward through the
5 facility's chain of command. The casualty list will be prepared no less than once daily and
6 should show each casualty received, held, evacuated or returned to duty during the reporting
7 period. Minimum information required on each casualty is-

- 8
- 9 Name.
- 10 Social Security number.
- 11 Rank.
- 12 Unit.
- 13 Brief description of wound/injury/disease.
- 14 Actual or expected disposition.
- 15

16 Training and planning for operations should include instructions in casualty reporting procedures
17 for all MAGTF elements.

18

19 The DD Form 1380 establishes patient accountability and provides a means to document
20 assessment of condition and treatment rendered by HSS personnel. The FMC is to be used as an
21 emergency medical tag for all casualties at the time they are initially treated in the field or field
22 medical facility. Completion of a FMC initiates an important medical record that will follow the
23 casualty through the levels of care. At the same time, it is an administrative document that may
24 contain the most dependable information a commanding officer may have regarding a casualty in
25 his unit. Our NATO allies, by formal agreement, use FMCs containing the same essential
26 information as recorded on the US card. Medical personnel must be trained in the preparation
27 and use of this form. The following general guidelines apply.

28

29 Upon rendering treatment, HSS personnel tag all casualties with DD Form 1380.

30

31 Deceased members are also tagged with the DD Form 1380.

32

33 Careful preparation of each DD Form 1380 is essential and special attention must be given to
34 recording time, medications, and treatment administered.

35

36 The DD Form 1380 remains attached to the casualty until he reaches his ultimate destination in
37 the chain of evacuation, or until a clinical record has been established.

38

39 Treatment administered by different levels of medical care is recorded on the previously attached
40 DD Form 1380.

41

42 If all space on the original card has been utilized, an additional card is prepared and attached to
43 the casualty. The original DD Form 1380 is **NOT** removed when an additional card (s) is
44 attached.

45

46 Upon the establishment of a clinical record for the casualty, the DD Form 1380 becomes part of

3 Aug 04

1 the clinical record.

2
3 If the patient requires decontamination, the contaminated DD Form 1380 is transcribed onto a
4 clean form.

5
6 **8002. Identification Tags (Dog Tags)**

7
8 Identification tags are essential to casualty identification and recording.

9
10 Each member is issued a chain and two tags to be worn at all times. The tags contain the
11 member's name, Social Security number, blood type, service component, religion or sect, and
12 protective mask size.

13
14 The member and his unit are jointly responsible for ensuring that all information is current and
15 accurate. Information on medical warning tags is contained in Navy Medical Command
16 (NAVMEDCOM) Instruction 6150.29 series.

17
18 Both identification tags remain with a casualty at all times, except when remains are buried in
19 the combat area. One tag is attached to the grave marker; the other tag stays with the deceased.
20 JP 4-06, *Joint Tactics, Techniques, and Procedures for Mortuary Affairs in Joint Operations*,
21 provides detailed procedures for handling deceased personnel.

22
23 **8003. Automated Medical Record Technology**

24
25 Emerging technology will provide new computer systems like the Medical Documentation
26 System that will interface with a small multitechnology card that has micro-computer chips built
27 into the card. This technology will give the care provider the advantage of an electronic
28 read/write capability to record care given to the patient at each level of care given. This type of
29 technology will enhance combat casualty care and patient locating by interfacing with much
30 larger command and control systems being developed to track patient movement, logistics
31 requirements, and treatment record management.

Chapter 9 Nuclear, Biological, and Chemical Defense

Given the proliferation of NBC weapons, all military personnel must be prepared to operate in a contaminated environment. Likewise, HSS personnel must also be prepared to provide patient care in an NBC environment. Because of potential evacuation delays due to the requirement to decontaminate patients and transportation assets, first aid and Level I care becomes even more critical. Given that the staffing of HSS units is based on conventional warfare requirements, these units will be taxed to provide effective HSS.

NBC actions cause high casualty rates, materiel losses, obstacles to maneuver, and contamination. Mission-oriented protective posture (MOPP) levels 3 and 4 result in increased body heat buildup, reduce mobility, and degrade visual, touch, and hearing senses, ultimately degrading unit effectiveness.

Contamination is a major problem in providing HSS in an NBC environment. To maximize the unit's survival and effectiveness, HSS leaders must take action to avoid NBC contamination. Maximum use must be made of—

- Contamination avoidance.
- Alarm and detection equipment and unit dispersion.
- Overhead shelters, shielding materials, and protective covers.
- Collective protection shelters.
- Chemical agent resistant coatings.

On the contaminated battlefield, the focus is on keeping the Marine in the battle. Effective and efficient triage, emergency treatment, decontamination, and contamination control in the operational area save lives, assure prompt evacuation, and maximize the RTD rate.

9001. Nuclear Environment

The HSS unit must continue its support mission in a nuclear environment, to the maximum extent possible. To continue their support role, they must prepare protective shelters. Well-constructed foxholes with overhead cover and expedient shelters (reinforced concrete structures, basements, railroad tunnels, or trenches) provide good protection from nuclear attacks. Armored vehicles also provide protection against both the blast and radiation effects of nuclear weapons. Casualties generated in a nuclear attack will likely suffer multiple injuries (combination of blast, thermal, and radiation injuries) that will complicate HSS requirements. Nuclear radiation casualties fall into three categories--

- The irradiated casualty is one who has been exposed to ionizing radiation, but is not contaminated. They are not radioactive and pose no radiation threat to medical care providers. Casualties who have suffered exposure to initial nuclear radiation will fit into this category.
- The externally contaminated casualty has radioactive dust and debris on his clothing, skin, or hair. He presents a "housekeeping" problem to the MTF, similar to the lice-infested patient

1 arriving at a peacetime MTF. However, this contamination may present a threat to medical
2 personnel. The externally contaminated casualty is decontaminated at the earliest time consistent
3 with required medical care. Lifesaving care is always rendered, when necessary, before
4 decontamination.

5
6 • The internally contaminated casualty is one that has ingested or inhaled radioactive materials,
7 or radioactive material has entered the body through an open wound. The radioactive material
8 continues to irradiate the casualty internally until radioactive decay and biological elimination
9 removes the radioactive isotope. Attending medical personnel are shielded, to some degree, by
10 the patient's body. Inhalation, ingestion, or injection of quantities of radioactive material
11 sufficient to present a threat to medical care providers is highly unlikely.

12 13 **9002. Biological Environment**

14
15 A biological attack (such as the enemy use of bomblets, rockets, spray or aerosol dispersal,
16 release of arthropod vectors, and terrorist or insurgent contamination of food and water) may be
17 difficult to recognize because frequently it does not have an immediate effect on exposed
18 personnel. Medical personnel must monitor for biological warfare indicators such as--

- 19
20 • Increases in disease incidence or fatality rates.
21 • Sudden presentation of an exotic disease.
22 • Other sequential epidemiological events, especially when presented in lines of
23 communications.

24
25 Passive defensive measures (such as immunizations, proper personal hygiene, physical
26 conditioning, using arthropod repellents, wearing protective mask, and strict adherence to field
27 sanitation measures) will mitigate the effects of most biological intrusions.

28
29 The medical commander must enforce contamination control to prevent injury to medical
30 personnel and to preserve his facility. Incoming vehicles and patients must be surveyed for
31 contamination. Ventilation systems in medical treatment facilities (without the collective
32 proactive shelter) must be turned off if biological or chemical exposure is imminent.

33
34 Decontamination of most biologically contaminated patients and equipment can be accomplished
35 with soap and water.

36
37 Treatment of biological-agent patients may require observing and evaluating the individual to
38 determine necessary medications, isolation, and treatment.

39 40 **9003. Chemical Environment**

41
42 Handling chemically contaminated patients presents a great challenge to HSS units. Presume all
43 casualties generated in a chemical environment are contaminated. Due to the vapor hazard
44 associated with contaminated patients, medical personnel may have to remain at MOPP level 4
45 for long periods of time. Therefore, they must locate clean areas in which to set up their MTF.

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1 MTF should only operate in a contaminated environment until they have the time and the means
2 to move to a clean area.

4 **9004. Actions Before an Attack**

6 The first and foremost action for medical personnel to take before an NBC attack is training to
7 survive the attack; operate in the environment; and effectively care for NBC casualties. Medical
8 personnel must keep their immunizations current; use available prophylaxis against suspect
9 agents; use pre-treatments for suspect agents; and have antidotes and essential medical supplies
10 readily available for known or suspected chemical or biological agents. The best defense for
11 medical personnel is to protect themselves, their patients, medical supplies, and equipment by
12 applying contamination avoidance procedures. They must ensure that stored medical supplies
13 and equipment are in protected areas, or in storage containers with covers in place. One method
14 of having supplies and equipment protected is to keep them in their shipping containers until
15 actually needed. When time permits and warnings are received that an NBC attack is imminent,
16 or that a downwind hazard exists, medical personnel should seek protected areas such as
17 basements of buildings, culverts, or ravines for themselves and their patients.

19 **9005. Actions During an Attack**

21 Medical personnel and their patients will remain in the best available protected areas during the
22 attack. During a nuclear attack, medical personnel and their patients should take up positions
23 within the shelter that are away from windows and other openings; only move out of these
24 positions when notified that it is safe to do so.

26 **9006. Actions After an Attack**

28 Medical personnel must survey their equipment to determine the extent of damage and their
29 capability to continue the mission. Initially, patients from nuclear detonations will suffer thermal
30 burns or blast injuries. Also, expect disorientation from patients and medical personnel.
31 Normally, radiation-induced injuries will be observed after a few hours to days. With the
32 exception of blister agents, chemical agent patients will manifest their injuries immediately upon
33 exposure to the agent. Biological agent patients may not show any signs of illness for hours to
34 days after exposure. All patients receiving treatment must be checked for NBC contamination.
35 Patients are decontaminated before treatment to reduce the hazard to medical personnel, unless
36 life-or-limb threatening conditions exist. Patients requiring treatment before decontamination are
37 treated in the contaminated medical area of the decontamination station. Examples of patient
38 conditions that may require treatment at the contaminated treatment station of the
39 decontamination area are cardiac arrest, massive hemorrhage, and respiratory distress.

41 **9007. Patient Evacuation**

43 An NBC environment forces the unit commander to consider to what extent he will commit
44 evacuation assets to the contaminated area. If operating forces are operating in a contaminated
45 area, most or all of the medical evacuation assets will operate there. However, efforts should be
46 made to keep some ambulances free of contamination.

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There are three basic modes of evacuating casualties: personnel, ground vehicles, and aircraft. Using personnel to physically carry the casualties involves a great deal of inherent stress. Cumbersome MOPP gear, added to climate, increased workloads, and the fatigue of battle, will greatly reduce personnel effectiveness. Radiation exposure records must be maintained by the NBC noncommissioned officer and made available to the commander, staff, and unit medical personnel. Again, every effort is made to limit the number of evacuation assets that are contaminated.

Evacuation considerations should include--

- A number of ambulances will become contaminated in the course of battle. Optimize the use of resources; use those already contaminated (medical or nonmedical) before employing uncontaminated resources.

- Once a vehicle or aircraft has entered a contaminated area, it is highly unlikely that it can be spared long enough to undergo a complete decontamination. This will depend upon the contaminant, the tempo of the battle, and the resources available to the evacuation unit. Normally, contaminated vehicles (air and ground) will be confined to dirty environments.

- Use ground ambulances instead of helicopters in contaminated areas; they are more plentiful, are easier to decontaminate, and are easier to replace. However, this does not preclude the use of aircraft.

- The relative positions of the contaminated area, forward line of own troops, and the threat of air defense systems will determine where helicopters may be used in the evacuation process. One or more helicopters may be restricted to contaminated areas; use ground vehicles to cross the line separating clean and contaminated areas. The ground ambulance proceeds to an MTF with a patient decontamination station; the patient is decontaminated and treated. If further evacuation is required, a clean ground or air ambulance is used. Routes used by ground vehicles to cross between contaminated and clean areas are considered dirty and should not be crossed by clean vehicles. Consider the effects of wind and time upon the contaminants; some agents will remain for extended periods of time.

- Always keep the rotor wash of the helicopters in mind when evacuating patients, especially in a contaminated environment. The intense winds will disturb the contaminants and further aggravate the condition. The aircraft must be allowed to land and reduce to flat pitch before patients are brought near. This will reduce the effects of the rotor wash. Additionally, a helicopter must not land too close to a decontamination station (especially upwind) because any trace of contaminants in the rotor-wash will compromise the decontamination procedure.

- Unless cleared in advance, Navy vessels will not receive contaminated patients or aircraft.

- Hasty decontamination of aircraft and ground vehicles is accomplished to minimize crew exposure. Units include deliberate decontamination procedures in their SOPs.

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1 - Evacuation of patients must continue, even in an NBC environment. The medical planner must
2 recognize the constraints NBC places on operations; then plan and train to overcome these
3 deficiencies.

4
5 **9008. Personnel Considerations**

6
7 During NBC actions, medical treatment requirements will increase; thus, medical
8 reinforcement/replacement may be necessary. Plans for HSS following an NBC attack must
9 include efforts to conserve available HSS personnel and ensure their best use. Medical personnel
10 will be fully active in providing emergency medical treatment or advanced trauma management;
11 they will provide more definitive treatment as time and resources permit. However, to provide
12 definitive care they must be able to work in a shirt sleeved environment, not in MOPP levels 3 or
13 4. Nonmedical personnel can conduct search and rescue operations for NBC casualties and can
14 also provide immediate first aid and decontamination.

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Appendix A Geneva Conventions

The conduct of armed hostilities on land is regulated by the Law of Land Warfare, which is both written and unwritten. The Law of Land Warfare is derived from two principal sources: custom and lawmaking treaties such as The Hague and Geneva Conventions. The rights and duties set forth in these conventions are part of the "Supreme Law of the Land". A violation of any of these is a serious offense. This appendix addresses provisions of the Geneva Conventions as they may apply within HSS organizations of Marine operating forces.

Background

A Diplomatic Conference for the Establishment of International Conventions for the Protection of Victims of War was convened by the Swiss Federal Council from April 21 to August 12th, 1949. The working documents of this conference formed the 1949 Geneva Conventions. The four Conventions established are--

I - Geneva Convention for the Amelioration of the Condition of the Wounded and Sick in Armed Forces in the Field, of 12 August 1949.

II - Geneva Convention for the Amelioration of the Condition of the Wounded, Sick and Shipwrecked Members of Armed Forces at Sea, of 12 August 1949.

III - Geneva Convention Relative to the Treatment of Prisoners of War, of 12 August 1949.

IV - Geneva Convention Relative to the Protection of Civilian Persons in Time of War, of 12 August 1949.

Under the Conventions, the signatories established the principle of disinterested aid to all victims of war without discrimination to those who, through wounds, capture, or shipwreck, are no longer enemies but merely suffering and defenseless human beings. With the additional protocols accepted and signed in 1977, the Geneva Conventions established the manner in which the victims of war will be treated. The Conventions also establish standards of conduct for medical and religious personnel assigned to aid the victims. Discussions from each of the Conventions are quite lengthy. The following topics highlight areas of prime concern. Each topic addressed will be identified by the Convention number, chapter and article from which it was taken. For detailed study of the principles, refer to the International Committee of the Red Cross manual entitled *The Geneva Conventions of August 12, 1949* and its supplementary, *Protocols Additional to the Geneva Conventions of 12 August 1949*. The United States is a signatory to the Geneva Conventions of 1949 and has directed its military forces to abide by the articles.

Identification of Medical Units, Facilities, and Vehicles

The Distinctive Emblem: "As a compliment to Switzerland, the heraldic emblem of the red cross

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1 on a white background, formed by reversing the Federal colors, is retained as the emblem and
 2 distinctive sign of the Medical Service of armed forces." (I, Chapter VII, Article 38).
 3 "Nevertheless, in the case of countries which already use as emblem, in place of the Red Cross,
 4 the Red Crescent or the Red Lion and Sun on a white ground, those emblems are also recognized
 5 by the terms of the present Convention." (I, Chapter VII, Article 38). Although not recognized
 6 by the Geneva Conventions, the Red Star of David on a white background is used by Israel.
 7 Figure A-1 illustrates markings currently in use. For purposes of identification, medical
 8 facilities include non-patient care areas, such as those used for dining, maintenance, and
 9 administration of medical units. A unit commander may, at his discretion, elect not to mark
 10 medical facilities. Should a commander decide to deploy medical facilities that are not marked
 11 in accordance with the articles of the Conventions, he runs the risk of losing the protection
 12 afforded by the Geneva Conventions. Commanders must consider this matter in planning
 13 operations.



14 **Figure A-1. Emblems Identifying Medical Units, Facilities, and Vehicles.**

15 **Medical Personnel**

16
 17
 18 "Medical personnel exclusively engaged in the search for, or the collection, transport, or
 19 treatment of the wounded or sick, or in the prevention of disease, staff exclusively engaged in the
 20 administration of medical units and establishments, as well as chaplains attached to the armed
 21 forces, shall be respected and protected in all circumstances." (I, Chapter IV, Article 24)

22
 23 "Members of the armed forces specially trained for employment, should the need arise, as
 24 hospital orderlies, nurses, or auxiliary stretcher-bearers, in the search for or the collection,
 25 transport or treatment of the wounded and sick shall likewise be respected and protected if they
 26 are carrying out these duties at the time when they come into contact with the enemy or fall into
 27 his hands." (I, Chapter IV, Article 25)

28
 29 "Medical personnel shall wear, affixed to the left arm a water-resistant armband bearing the
 30 distinctive emblem, issued and stamped by the military authority. In addition, medical personnel
 31 will carry a special identity card bearing the distinctive emblem." (I, Chapter VII, Article 40; II,
 32 Chapter VI, Articles 41 and 42). For United States military personnel, the Geneva Convention
 33 Identity Card (DD 1934) is used.

34
 35 "Medical personnel and chaplains who fall into the hands of the adverse Party, shall be retained
 36 only in so far as the state of health, the spiritual needs, and the number of prisoners of war
 37 require. Personnel thus retained shall not be deemed prisoners of war, but will benefit by all the
 38 provisions accorded prisoners of war. They shall continue to carry out, in accordance with their
 39 professional ethics, their medical and spiritual duties on behalf of prisoners of war, preferably
 40 those of the armed forces to which they themselves belong. They shall further enjoy the
 41 following facilities for carrying out their medical or spiritual duties." (I, Chapter IV, Article 28).

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- "They shall be authorized to visit periodically the prisoners of war in labor units or hospitals outside the camp. The Detaining Power shall put at their disposal the means of transport required."
- "In each camp the senior medical officer of the highest rank shall be responsible to the military authorities of the camp for the professional activity of the retained medical personnel. For this purpose, from the outbreak of hostilities, the Parties to the conflict shall agree regarding the corresponding seniority of the ranks of their medical personnel, including those of the societies designated in Article 26. In all questions arising out of their duties, this medical officer, and the chaplains, shall have direct access to the military and medical authorities of the camp who shall grant them the facilities they may require for correspondence relating to these questions."
- "Although retained personnel in a camp shall be subject to its internal discipline, they shall not, however, be required to perform any work outside their medical or religious duties."

"Personnel whose retention is not indispensable by virtue of the provisions of Article 28 shall be returned to the Party to the conflict to whom they belong, as soon as a road is open for their return and military requirements permit. On their departure, they shall take with them the effects, personal belongings, valuables, and instruments belonging to them." (I, Chapter IV, Article 30)

"Persons engaged in medical activities shall not be compelled to perform acts or to carry out work contrary to the rules of medical ethics or to other medical rules designed for the benefit of the wounded and sick, or to refrain from performing acts or from carrying out work required by those rules and provisions." (I, Chapter IV, Article 28; II, Article 10, Paragraph 2).

"That the personnel of the unit or establishment are armed, and that they use the arms in their own defense, or in defense of the wounded and sick in their charge." (I, Chapter III, Article 22[1]).

Wounded and Sick in the Field

Protection and Care (I, Chapter II, Article 12).

- "Members of the armed forces and other designated persons who are wounded or sick shall be respected and protected in all circumstances."
- "They shall be treated humanely and cared for by the Party to the conflict in whose power they may be, without any adverse distinction founded on sex, race, nationality, religion, political opinions, or any other similar criteria."
- "Only urgent medical reasons will authorize priority in the order of treatment to be administered."

- 1 • "The Party to the conflict which is compelled to abandon wounded or sick to the enemy
2 shall, as far as military considerations permit, leave with them a part of its medical
3 personnel and material to assist in their care."
4

5 "Subject to the provisions of Article 12, the wounded and sick of a belligerent who fall into
6 enemy hands shall be prisoners of war, and the provisions of international law concerning
7 prisoners of war shall apply to them." (I, Chapter II, Article 14).
8

9 "Parties to the conflict shall record as soon as possible, in respect of each wounded, sick, or dead
10 person of the adverse Party falling into their hands any particulars which may assist in his
11 identification." (I, Chapter II, Article 16).
12

13 **Wounded, Sick, and Shipwrecked at Sea**

14

15 "Members of the armed forces who are at sea and who are wounded, sick, or shipwrecked, shall
16 be respected and protected in all circumstances, it being understood that the term "shipwreck"
17 means shipwreck from any cause and includes forced landings at sea by or from aircraft". (II,
18 Chapter II, Article 12).
19

20 "Should fighting occur on board a warship, the sick-bays shall be respected and spared as far as
21 possible." (II, Chapter III, Article 28).
22

23 **Medical Facilities and Material**

24

25 "Fixed establishments and mobile medical units of the Medical Service may in no circumstances
26 be attacked, but shall at all times be respected and protected by the Parties to the conflict." (I,
27 Chapter III, Article 19).
28

29 "Should fixed or mobile medical units fall into the hands of the adverse Party, their personnel
30 shall be free to pursue their duties, as long as the capturing Power has not itself ensured the
31 necessary care of the wounded and sick found in such establishments and units." (I, Chapter III,
32 Article 19).
33

34 "The protection to which fixed establishments and mobile medical units of the Medical Service
35 are entitled shall not cease unless they are used to commit, outside their humanitarian duties, acts
36 harmful to the enemy." (I, Chapter III, Article 21).
37

38 "The material of mobile medical units of the armed forces which fall into the hands of the
39 enemy, shall be reserved for the care of wounded and sick." (I, Chapter V, Article 33).
40

41 "The buildings, material and stores of fixed medical establishments of the armed forces shall
42 remain subject to the laws of war, but may not be diverted from their purpose as long as they are
43 required for the care of wounded and sick." (I, Chapter V, Article 33).
44

45 "The medical material and stores maintained to support the medical facilities shall not be
46 intentionally destroyed." (I, Chapter V, Article 33).

1
2 "Transports of wounded and sick or of medical equipment shall be respected and protected in the
3 same way as mobile medical units." (I, Chapter VI, Article 35).

4
5 "Medical aircraft (aircraft designated by red crosses or flashing blue light) shall not be attacked,
6 but shall be respected by the belligerents, while flying at heights, times, and on routes
7 specifically agreed upon between the belligerents concerned. Medical aircraft shall obey every
8 summons to land. In the event of a landing thus imposed, the aircraft with its occupants may
9 continue its flight after examination, if any. In the event of an involuntary landing in enemy or
10 enemy-occupied territory, the wounded and sick, as well as the crew of the aircraft shall be
11 prisoners of war. The medical personnel shall be treated according to Article 24." (I, Chapter
12 VI, Article 36).

13
14 **Hospital Ships**

15
16 "Military hospital ships may in no circumstances be attacked or captured, but shall at all times be
17 respected and protected, on condition that their names and descriptions have been notified to the
18 Parties to the conflict ten days before those ships are employed." (I, Chapter III, Article 20; II,
19 Chapter III, Article 22).

20
21 "Military hospital ships cannot be used for any military purpose." (II, Chapter III, Article 30).

22
23 "The protection to which hospital ships and sick-bays are entitled shall not cease unless they are
24 used to commit, outside their humanitarian duties, acts harmful to the enemy." (II, Chapter III,
25 Article 34).

26
27 "In particular, hospital ships may not possess or use a secret code for their radios or other means
28 of communication." (II, Chapter III, Article 34).

29

Appendix B Blood Support

Blood Program Offices

Armed Services Blood Program Office. The Armed Services Blood Program Office (ASBPO) manages the blood program for the DOD and is subject to the authority, direction and control of the Secretary of Defense through the Assistant Secretary of Defense for Health Affairs (ASD [HA]) and operational control of the Joint Chiefs of Staff.

Joint Blood Program Office. The Joint Blood Program Office (JBPO) is responsible for the joint blood program management in a theater of operations. The JBPO functions as part of the unified command surgeon's office but may establish an AJBPO for regional blood management. The JBPO—

- Supports the unified command surgeon or augment the commander, joint task force surgeon's staff.
- Is the central point of contact to ASBPO.
- Coordinates joint blood products requirements and capabilities in the theater of operations.
- Coordinates requirements, distribution, and facilities. It is the JBPO's responsibility to be sure blood is where it is needed. This includes determining how to get blood and blood products to forward units, ships and MTFs.
- Monitors shortfalls for blood products and supplies for blood collection, deglycerolization, and transfusion.
- Ensures readiness throughout the distribution system through exercises and training.
- Ensures compliance with Armed Service Blood Program (ASBP) policies, Food and Drug Administration regulations, and American Association of Blood Banks standards in peacetime, during contingencies, and during wartime.
- Performs as the unified command subject matter expert in determining blood requirements.
- Provides the blood concept, coordinate with logistics, transportation, and communication personnel on the joint staff for the unified command and prepare appendix 2 (Joint Blood Program) to Annex Q (Medical Services).

Area Joint Blood Program Office. An AJPBO, when established by the JBPO, coordinates requirements and distribution of all blood products to support the blood supply unit (BSU) and MTFs in a specific area, regardless of the Service component. Not all operations will require the establishment of an AJBPO.

Blood Program Facilities

Armed Services Whole Blood Processing Laboratory. An Armed Services Whole Blood Processing Laboratory (ASWBPL) is a US Air Force managed, tri-Service staffed central repository for blood required in contingencies and wartime. An ASWBPL releases blood to unified commands on approval by ASBPO. Theater units may NOT go directly to the ASWBPL for blood. The ASWBPL —

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- 1 - Retypes blood for blood typing system (ABO) and Rh only.
- 2 - Packs and prepares blood for shipment to the theater.
- 3 - Maintains a peacetime inventory of 250 units of liquid blood for use as a rapid response
- 4 requirement.

5
6 **Blood Transshipment Centers.** A blood transshipment center (BTC) serves as the central
7 receiving point in theater for blood shipments from the ASWBPL and for issue to the BSUs. A
8 BTC can store and process up to 7,200 units of blood daily. US Air Force personnel located at a
9 major airhead usually operate it. Theater blood products are managed by the JBPO or AJBPO.
10 BTCs—

- 11
- 12 - Inspect blood received from the ASWBPL.
- 13 - Store, ice, and receive blood and perform quality control.
- 14 - Issue blood to BSUs or other theater blood users.

15
16 The Navy or Marine Corps must arrange transportation to obtain blood from the BTC. Blood
17 issued to the Navy and Marine Corps will be based on a daily allocation system established by
18 the theater.

19
20 **Blood Supply Unit.** A BSU is responsible for receiving, storing and distributing blood within
21 the theater of operations. It is required to provide a five-day storage supply of blood products
22 based on proposed requirements and blood reports. The BSU can be identified to provide support
23 in a specific geographical area regardless of Service components. The following facilities can
24 serve as a BSU: Army blood platoon, Navy fleet hospital, naval amphibious vessels, hospital
25 ships, MTFs, and blood product depots. BSUs—

- 26
- 27 - Receive, store, and distribute blood to supported facilities.
- 28 - Provide a five-day supply of blood and blood products based on requirements to the theater.
- 29 - Provide storage capabilities that maintain temperature requirements for liquid blood.
- 30 - Have the capability to produce ice for shipping and re-icing of blood in theater.
- 31 - Have the capability to store frozen blood products including fresh frozen plasma (FFP) and
- 32 frozen red blood cells.
- 33 - Supply blood and blood products to MTFs based on the following authorized blood usage--
- 34
- 35 -- Level I: No blood use is authorized. Only resuscitation fluids such as ringer's lactate
- 36 and human albumin are available.
- 37 -- Level II: Group O cells only (Rh pos/neg); no FFP. Resuscitation fluids such as ringers
- 38 lactate and human albumin are available.
- 39 -- Level III: Group and type specific cells and FFP as well as resuscitation fluids are
- 40 available.
- 41

Appendix C
Authorized Medical/Dental Allowance Lists

Health Services Support authorized medical allowance lists (AMAL) and authorized dental allowance list (ADAL) are arranged in a modular concept. The equipment module contains equipment and reusable materiel required to establish the basic function of the module; e.g., operating room. The supply module contains consumable material designed to support the function in the treatment of a designated number of casualties or to perform a specific task. For readiness purposes, an equipment module may be stored in combination with its corresponding supply module. The materiel listed in each AMAL/ADAL is the minimum amount to be maintained. The AMAL/ADAL number and nomenclatures are stated below.

MCO 4400 series is the primary source for the policies and procedures for procurement of AMAL/ADALs to meet the required capability of the Marine Corps. This includes assembly, maintenance, levels of supply, and distribution of materiel. AMAL/ADALs are maintained and resupplied by the Medical Logistics Company, Supply Battalion, Force Service Support Group.

AMAL 618 - Laboratory Equipment

Equipment and reusable materiel required to establish a laboratory capable of hematology, microbiology, urinalysis, collecting, and chemistry testing.

AMAL 619-Laboratory Supply

Consumable supplies required to perform hematology, microbiology, urinalysis, and chemistry testing for 100 patients.

AMAL 627-X-Ray

Equipment, consumable supplies, and reusable materiel required to establish one x-ray suite for 100 patients.

AMAL 629-Pharmacy Equipment

Equipment and reusable materiel required to establish a pharmacy.

AMAL 630-Pharmacy Supply

Consumable supplies required to provide pharmacy support to 1,000 persons, in 6 - 5 day packages for a total of 30 days.

AMAL 631-Shock Surgical Team/Triage Equipment

Equipment and reusable materiel required to establish a basic shock trauma surgical team or triage to support the receipt, resuscitation, sorting and temporary holding of casualties.

AMAL 632-Shock Surgical Team/Triage Supply

Consumable supplies required to receive, resuscitate, sort and temporarily hold 50 casualties with major wounds and to provide basic line corpsman resupply.

AMAL 633-Ward Equipment

Equipment and reusable materiel required to establish a 20 bed unit providing care for patients.

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AMAL 634-Ward Supply

Consumable supplies required to provide ward support for 100 bed days to patients.

AMAL 635-Aid Station Equipment

Equipment and reusable materiel required to support one division, wing, group, or engineer, BAS.

AMAL 636-Aid Station Supply

Consumable supplies required to provide aid station support, initial resuscitative and stabilizing care for 50 casualties with major wounds prior to evacuation and to resupply basic line corpsman.

AMAL 637-Preventive Medicine Equipment

Equipment and reusable materiel required to establish a preventive medicine section providing technical preventive medicine advice and inspection of food service operations, waste disposal, water potability, and sources, vector control, and coordination of control measures required of communicable diseases and monitoring and assisting in immunization programs.

AMAL 638-Preventive Medicine Supply

Consumable supplies required to provide support of preventive medicine effort of the MEF, in 12 - 5 day packages for a total of 60 days.

AMAL 639-Operating Room Equipment

Equipment and reusable materiel required to support one operating room for performance of major surgical procedures, administration of general anesthesia, sterilization and maintenance of sterile material.

AMAL 640-Operating Room Supply

Consumable supplies required to provide operating room support for 25 surgical cases.

AMAL 645-Forward Resuscitative Surgery System (FRSS)

Equipment, consumable supplies, and reusable materiel required to care for 18 patients in a 48 hour period.

AMAL 646-Forward Resuscitative Surgery System (FRSS) Re-Supply

Equipment and consumable supplies required to reconstitute the FRSS suite.

ADAL 662-Field Dental Operatory

Equipment and reusable materiel required to establish a field dental clinic. Consumable supplies required to provide emergency, diagnostic, preventive and maintenance dental support for 400 patients.

AMAL 684-Geographic Supplement

Consumable supplies and reusable material required to accommodate special mission/geographic related requirements for a MEF, in 12 - 5 day packages for a total of 60 days.

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AMAL 685-Cold Weather Supplement

Consumable supplies and reusable material required to accommodate special mission/geographic related requirements into areas where cold related injuries are likely to occur.

AMAL 686-Hot Weather Supplement

Consumable supplies and reusable material required to accommodate special mission/geographic related requirements into areas where heat related injuries are likely to occur.

AMAL 687-NBC Individual

Materials required in order for the individual to conduct primary decontamination and treatment in an NBC environment.

AMAL 688 NBC Unit

Materials required in order for the units to conduct primary and secondary decontamination and treatment in a NBC environment.

AMAL 691 Med Log Test/Repair Equip

Equipment and reusable materiel required to perform testing, calibration and 3d & 4th echelon maintenance of medical/dental equipment.

AMAL 692 Med Log Test/Repair Supply

Consumable supplies required to accommodate a medical repair section in the testing, calibration, and 3d & 4th echelon maintenance of medical/dental equipment.

AMAL 699 Reestablished Sick Call Block

Medical materiel required to provide essential treatment for disease and nonbattle injuries during routine sick call for 1000 deployed Marine Corps forces for 30 days. This AMAL provides the sick call capability for a BAS and will usually be deployed with the BAS AMALs.

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Appendix D
Glossary

1		
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5	ACE	aviation combat element
6	AC/S	assistant chief of staff
7	ADAL	authorized dental allowance list
8	AE	assault echelon
9	AFMIC	Armed Forces Medical Intelligence Center
10	AFOE	assault follow-on echelon
11	AJBPO	Area Joint Blood Program Office
12	AMAL	authorized medical allowance list
13	AO	area of operations
14	AOA	amphibious objective area
15	AOR	area of responsibility
16	ASBP	Armed Services Blood Program
17	ASBPO	Armed Services Blood Program Office
18	ASD (HA)	Assistant Secretary of Defense for Health Affairs
19	ASWBPL	Armed Services Whole Blood Processing Laboratories
20	ATO	air tasking order
21		
22	BAS	battalion aid station
23	BSU	blood supply unit
24	BTC	blood transshipment center
25	BUMED	Bureau of Medicine and Surgery
26		
27	CD-ROM	compact disc-read only memory
28	CE	command element
29	CG	commanding general
30	COA	course of action
31	COMMARFORLANT	Commander, Marine Corps Forces, Atlantic
32	COMMARFORPAC	Commander, Marine Corps Forces, Pacific
33	CONUS	continental United States
34	COSR	combat and operational stress reaction
35	CRTS	casualty receiving and treatment ship
36	CSS	combat service support
37	CSSA	combat service support area
38	CSSE	combat service support element
39		
40	DNBI	disease and nonbattle injury
41	DOD	Department of Defense
42	DP-A	dental platoon – air
43	DS	dental section
44	DSS	dental service support
45	DTF	dental treatment facility
46		

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1	EH	environmental health
2	EMF	expeditionary medical facility
3	EMW	expeditionary maneuver warfare
4	EPW	enemy prisoner of war
5	ERCS	en route care system
6	ESG	expeditionary strike group
7		
8	FDPMU	forward deployed preventive medicine unit
9	FFP	fresh frozen plasma
10	FHP	force health protection
11	FMC	field medical card
12	FRSS	forward resuscitative surgery system
13	FSSG	force service support group
14	FST	fleet surgical team
15		
16	G-1	manpower/personnel officer (major subordinate commands and larger organizations)
17		
18	G-2	intelligence officer (major subordinate commands and larger organizations)
19		
20	G-3	operations officer (major subordinate commands and larger organizations)
21		
22	G-4	logistics officer (major subordinate commands and larger organizations)
23		
24	G-5	plans officer (major subordinate commands and larger organizations)
25		
26	GAS	group aid station
27	GCE	ground combat element
28		
29	H&S	headquarters and service
30	HCA	humanitarian and civic assistance
31	HF	high frequency
32	HMMWV	high mobility multipurpose wheeled vehicle
33	HN	host nation
34	HNS	host-nation support
35	HSS	health service support
36	HSSE	health service support element
37	HSSO	health service support officer
38		
39	ICU	intensive care unit
40	INTELINK	intelligence link
41		
42	J-5	plans directorate of a joint staff
43	JBPO	Joint Blood Program Office
44	JTF	joint task force
45	JOPES	Joint Operation Planning and Execution System
46	JP	joint publication

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2	LCC	amphibious command ship
3	LF	landing force
4	LFSP	landing force support party
5	LHA	amphibious assault ship (general purpose)
6	LHD	amphibious assault ship (multipurpose)
7	LPD	amphibious transport dock
8	LSD	landing ship dock
9		
10	MACG	Marine air control group
11	MAG	Marine aircraft group
12	MAGTF	Marine air-ground task force
13	MAP	Medical Augmentation Program
14	MARCORCASPROC MAN	Marine Corps Casualty Procedure Manual
15	MARFOR	Marine Corps Forces
16	MARFORRES	Marine Corps Forces Reserve
17	MAW	Marine aircraft wing
18	MCCDC	Marine Corps Combat Development Command
19	MCO	Marine Corps order
20	MCRP	Marine Corps reference publication
21	MCWP	Marine Corps warfighting publication
22	MEB	Marine expeditionary brigade
23	MedLogCo	medical logistics company
24	MSOC	medical support operations center
25	MEF	Marine expeditionary force
26	MEU	Marine expeditionary unit
27	MMART	mobile medical augmentation readiness team
28	MOLLE	modular lightweight load-carrying equipment
29	MOOTW	military operations other than war
30	MOPP	mission-oriented protective posture
31	MPF	maritime pre-positioning force
32	MPS	maritime pre-positioning ships
33	MPSRON	maritime pre-positioning ships squadron
34	MSSG	Marine expeditionary unit service support group
35	MTF	medical treatment facility
36	MTVR	medium tactical vehicle replacement
37	MWSG	Marine wing support group
38	MWSS	Marine wing support squadron
39		
40	NATO	North Atlantic Treaty Organization
41	NBC	nuclear, biological, and chemical
42	NEC	Navy Enlisted Classification
43	NOBC	Navy Officer Billet Classification
44		
45	OCONUS	outside the continental United States
46	OIF	Operation Iraqi Freedom

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1	OPCON	operational control
2	OPLAN	operation plan
3	OPORD	operation order
4		
5	PM	preventive medicine
6	PMI	patient movement item
7	PREVMEDO	preventive medicine officer
8		
9	RTD	return to duty
10		
11	SASSY	support activities supply system
12	S-1	manpower/personnel officer (units and organizations below
13		the major subordinate command level)
14	S-2	intelligence officer (units and organizations below the
15		major subordinate command level)
16	S-3	operations officer (units and organizations below the major
17		subordinate command level)
18	S-4	logistics officer (units and organizations below the major
19		subordinate command level)
20	S-6	communications and information systems officer (units and
21		organizations below the major subordinate
22		command level)
23	SIMLM	single integrated medical logistics manager
24	SMU	SASSY management unit
25	SOP	standing operating procedure
26	STP	shock trauma platoon
27		
28	T-AH	hospital ship
29	T/E	table of equipment
30	TMO	The Medical Officer of the Marine Corps
31	T/O	table of organization
32		
33	UIC	unit identification code
34		
35	VHF	very high frequency
36		

Appendix E
References and Related Publications

Joint Publications (JPs)

6	Joint Pub 3-02	Joint Doctrine for Amphibious Operations
7	Joint Pub 3-07	Joint Doctrine for Military Operations Other Than War
8	Joint Pub 3-07.3	Joint Tactics, Techniques, and Procedures for Peace Operations
9	Joint Pub 3-07.6	Joint Tactics, Techniques, and Procedures for Foreign Humanitarian Assistance
11	Joint Pub 4-0	Doctrine for Logistic Support of Joint Operations
12	Joint Pub 4-02	Doctrine for Health Service Support in Joint Operations
13	Joint Pub 4-06	Joint Tactics Techniques and Procedures for Mortuary Affairs in Joint Operations
15	Joint Pub 5-00.2	Joint Task Force (JTF) Planning Guidance and Procedures

CJCS Directives

19	CJCSM 31.22.01	Joint Operation Planning and Execution System (JOPES) Vol I
20	CJCSM 3122.03A	Joint Operation Planning and Execution System (JOPES) Vol II

Marine Corps Publications

24	MCRP 3-02G	First Aid
25	MCWP 3-24	Assault Support
26	MCRP 3-31B	Amphibious Ships and Landing Craft Data Book
27	MCWP 3-32	MPF Operations
28	MCWP 3-37.3	NBC Decontamination
29	MCRP 3-37A	NBC Field Handbook
30	MCRP 3-37B	Field Behavior of NBC Agents
31	MCDP 4	Logistics
32	MCWP 4-1	Logistics Operations
33	MCWP 4-11	Tactical-Level Logistics
34	MCWP 4-11.1	Health Service Support Operations
35	MCRP 4-11.1A	Treatment of Chemical Agent Casualties and Conventional Military Chemical Injuries
37	MCRP 4-11.1B	Treatment of Nuclear and Radiological Casualties
38	MCRP 4-11.1C	Treatment of Biological Warfare Agent Casualties
39	MCRP 4-11.1D	Field Hygiene and Sanitation
40	MCRP 4-11.1F	HSS in an NBC Environment
41	MCWP 5-1	Marine Corps Planning Process
42	MCRP 5-12D	Organization of Marine Corps Forces
43	MCRP 6-11C	Combat Stress
44	MCO P3040.4 E	Marine Corps Casualty Procedure Manual
45		Short title: MARCORCASPROCMAN

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US Navy Publications and Instructions

NAVMED P 117	Manual of the Medical Department
NAVMED P 5010	Preventive Medicine Manual
NAVMED P 6530	Joint Blood Program Handbook
NTTP 4-02.2	Patient Movement
NWP 4-02 (Rev A)	Naval Expeditionary HSS Afloat and Ashore
BUMEDINST 5360.1	Decedent Affairs Manual
BUMEDINST 6440.5 series	Medical Augmentation Program (MAP)
BUMEDINST 6600.10 series	Dental Infection Control Program
NAVMEDCOMINST 6150.35	Medical Warning Tag

US Army Publications

FM 4-02.10	Theater Hospitalization
FM 4-02.12	HSS in Corps and Echelons Above Corps
FM 4-02.17	Preventive Medicine Services
FM 4-02.19	Dental Service Support in a Theater of Operations
FM 4-25.12	Unit Field Sanitation Team
FM 8-9	NATO Handbook on Medical Aspects of NBC Defensive Operations
FM 8-10-26	Employment of the Medical Company (Air Ambulance)
FM 8-51	Combat Stress Control in a Theater of Operations
FM 8-55	Planning for Health Service Support
FM 22-51	Leader's Manual for Combat Stress Control

Other Publications

The Emergency War Surgery NATO Handbook, U.S. Government Printing Office, 1988

World Wide Web Homepages

United State Marine Corps, MCCDC, Doctrine Division, World Wide Web Homepage:
<https://www.doctrine.usmc.mil/>

United States Navy, Doctrine Command, World Wide Web Homepage:
<http://www.nwdc.navy.mil/>

United States Army, General Dennis Reimer Training and Doctrine Digital Library, World Wide Web Homepage: <http://155.217.58.58/atdls.htm>

Chairman of Joint Chiefs of Staff, Joint Doctrine, World Wide Web Homepage:
<http://www.dtic.mil/doctrine/>