

## DEPARTMENT OF THE ARMY SUPPLY BULLETIN

### Army Medical Department Supply Information

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#### **NOTICE**

This Supply Bulletin is devoted entirely to Medical Devices Program Management Office information and supersedes all previous editions

## CHAPTER 1. GENERAL INFORMATION

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### 1-1. INTRODUCTION

The U.S. Army Medical Materiel Agency (USAMMA), Project Management Office, Medical Devices (PMO MD) provides lifecycle management of all advanced development and commercial medical devices supporting field medical organizations globally. The PMO MD facilitates identification of products that fill recognized capability gaps as early as possible and facilitates entry of products into Decision Gate to ensure early visibility by the Principal Assistant for Research and Technology (PAR&T), Principal Assistant for Acquisition (PAA), and Advanced Development (AD).

a. Mission. The PMO MD provides acquisition lifecycle management of all tables of organization and equipment (TOE) devices and ancillary medical items supporting human and animal patient care. The mission of the PMO MD is critical to the success of both the current and future missions of field medical treatment from the Army's Role 1 thru Role 3 (roles of care). The advantages of an integrated staff are evident in technically superior equipment that is reliable and supportable in austere environments throughout the world. The PMO MD provides internal support to the USAMMA to include assistance to other directorates for Army Pre-positioned Stock (APS), Foreign Military Sales (FMS), and the Office of the Surgeon General's Contingency Stocks (OTSG-CS). It integrates acquisition and logistics actions with the Defense Logistics Agency-Troop Support (DLA-TS), and collaborates closely with the capability developer, Army Medical Department-Center and School (AMEDDC&S), AMEDD Test Board, and Service laboratories. The PMO MD also directly supports DoD health affairs research and development efforts as the advanced development consultant on Joint Program Committees (JPCs) and executes Defense Health Program-Research, Development, Test, and Equipment (DHP-RDTE) in support of joint research and development programs that have the potential to support all roles of care (Roles I thru V). The products and innovations generated within this organization will provide the Army, as well as our sister Services, with premier medical capabilities that our front-line Soldiers depend on and know will provide the best possible clinical outcomes whenever and wherever needed.

b. Functions. The PMO MD operates under the guidance and constraints prescribed by DoDI 5000 series; AR 40-60 Policies and Procedures for the Acquisition of Medical Materiel, AR 40-61 Medical Logistics Policies, AR 70-1 Army Acquisition Policy, AR 700-127 Integrated Logistics Support (\*RAR 002, 03/26/2012), and AR 70-57 Military - Civilian Technology Transfer. Additionally, all advanced development (6.4 and 6.5) projects as well as commercially available equipment replacements are under the purview of the PMO MD. Embedded within the PMO MD are the components needed to program and execute a large, comprehensive program; clinical, technical, maintenance, logistics, publications, and financial personnel. Major responsibilities center on activities associated with the development and acquisition of materiel solutions to satisfy mission needs and take advantage of technological opportunities. The PMO MD consists of four divisions: Acquisition Information, Medical Materiel Solutions, Healthcare Technologies, and Integrated Logistics. These specialized teams employ the expertise of development engineers, government and contract personnel, clinicians, military consultants, biomedical engineers, integrated logistics support managers, equipment specialists, logistics engineers, and data managers.

(1) Medical Materiel Solutions Division (MMS). The MMS is primarily responsible for product management of advanced development efforts and new product ideas in support of both Army and Defense Health Programs. It develops medical device solutions for combat casualty care, military operational medicine and rehabilitative and restorative care. It also houses USAMMA's Office of Research and Technology Applications (ORTA) in support of Cooperative Research and Development Agreements (CRADAs).

(2) Healthcare Technologies Division (HCT). The HCT is responsible for clinical and engineering oversight, management, and evaluation of commercial medical devices and associated support items for all unit assemblages (UAs) deployed in support of medical operations on the battlefield. This includes equipment and UAs ranging from the Tactical

Combat Medical Care (TCMC) set to the core of the combat support hospital: the EMT, pharmacy, surgery, intensive care unit, and wards and clinics. It also includes ophthalmology and optometry services, dentistry, oxygen generation and supply systems, surgical subspecialties, laboratory and veterinary services, blood storage, and delivery devices.

(3) Acquisition Information Division (AID). The AID assures that relevant information regarding medical devices is published or distributed so that Service units have the necessary critical information to perform their missions.

(4) Integrated Logistics Division (ILS). The ILS is primarily responsible for all aspects of integrated logistics support for all clinical divisions within the PMO-MD office.

## **1-2. PROGRAM MANAGEMENT OFFICE, MEDICAL MATERIEL SOLUTIONS DIVISION**

a. Introduction. The MMS is responsible for devices in trauma and emergency medical care, medical transport, general surgery, recovery, and general medical care.

b. Mission. The MMS provides oversight and management for technology, engineering, and manufacturing development efforts utilizing Defense Health Program (DHP) funds and Army Research, Development, Test & Evaluation (RDTE) funds utilizing 6.3, 6.4, and 6.5 program execution dollars. It houses USAMRMC's New Product Ideas program, technology transfer agreements (TTAs), and manages pivotal/clinical trials with the U.S. Army Medical Command (MEDCOM) medical treatment facilities (MTF), U.S. Army Medical Research and Materiel Command (USAMRMC) research laboratories, and partnering academic institutions.

c. The following are functions of the MMS:

- (1) Advanced Development Portfolio/Product Management.
- (2) Pivotal/Clinical trials for FDA Compliance of Medical Devices.
- (3) New Product Ideas.
- (4) Defense Health Program Research and Development.
- (5) Integrated Product Teams (IPTs).
- (6) Representation on JPCs.
- (7) ORTA/CRADAs.
- (8) Board of Director Reviews.
- (9) Advanced Development Program Objective Memorandums.
- (10) Coordination with Capability Developers on Requirement Documents.
- (11) Technical Writing and Editing of Advance Development Documents.

## **1-3. PROGRAM MANAGEMENT OFFICE, MEDICAL HEALTHCARE TECHNOLOGIES DIVISION**

a. Introduction. The HCT is responsible for devices associated with ophthalmology and optometry services, dentistry, oxygen generation and supply systems, and surgical subspecialties.

b. Mission. The HCT provides clinical and engineering oversight and management for technical and highly specialized medical assemblages that are deployed on the battlefield. It provides internal support to USAMMA directorates in support of the APS, FMS, and OTSG-CS. It integrates acquisition and logistics actions with DLA-TS, and collaborates closely with the capability developer, AMEDDC&S, AMEDD Test Board, and Service laboratories. It also provides clinical consultation for development and modernization efforts. The division is responsible for all medical devices and associated support items to include 220 major end items and 101 medical UAs.

c. The following are functions of the HCT:

- (1) Oxygen Generation.

- (2) Emergency Medical Treatment (EMT).
- (3) Pharmacy.
- (4) Surgery/Operating Room.
- (5) Intensive Care Unit.
- (6) Ophthalmology/Optometry.
- (7) Optical Fabrication Unit/Multi-vision Fabrication.
- (8) Orthopedics.
- (9) Physical/Occupational Therapy.
- (10) Audiology.
- (11) Flight Surgeon.
- (12) Army Special Operations Forces.
- (13) Surgical Subspecialties.
- (14) Laboratory.
- (15) Blood storage.
- (16) Delivery Devices.
- (17) Veterinary.
- (18) Set Development.
- (19) Clinical Determinations.
- (20) Biomedical Engineering.
- (21) Advanced Development Support.
- (22) Clinical Consultant for Advance Development/Modernization efforts.
- (23) IPT support.
- (24) Technology Management and Consultation.
- (25) Market Analysis.
- (26) Source Selections.
- (27) Commercial Equipment Assessments.
- (28) Consequence Management and Special Operations Command (SOCOM)

Support.

This list includes all research and development programs related to managed commodities. Additional details include patient movement items.

#### **1-4. PROGRAM MANAGEMENT OFFICE, ACQUISITION INFORMATION DIVISION**

a. Introduction. The AID assures that relevant information regarding medical devices is published or distributed so that Service units have the necessary critical information to perform their missions.

b. Mission. Develops interactive electronic technical manuals (IETMs) and equipment literature for medical equipment and publishes on compact discs (CDs), develops and publishes the Support and Consumables Handbooks, and provides configuration management processes for UAs and equipment start-up lists. The division also manages the PMO MD equipment hand receipt; provides technical writing and editorial support; and manages the PMO MD information on the USAMMA's internet and intranet.

c. The following are functions of the AID:

- (1) Develop and Publish IETMs for Medical Equipment.
- (2) Publish Medical Equipment Literature on AKO.
- (3) Develop and Publish Support and Consumables Handbooks for UAs.
- (4) Publish Equipment Start-up Lists.
- (5) Publish and Manage Medical Devices Information on USAMMA's Internet and Intranet.
- (6) Manage the PMO-MD Equipment Hand Receipt Property Book.
- (7) Publish two Supply Bulletins Annually.
- (8) Provide Technical Editing of Advance Development Documents.

## **1-5. PROGRAM MANAGEMENT OFFICE INTEGRATED LOGISTICS DIVISION**

a. Introduction. The ILS is responsible for all aspects of logistics support for all clinical divisions within the PMO MD office.

b. Mission. The ILS is responsible for the integrated logistics support for the PMO MD. This includes support within each one of the 12 ILS elements for new and existing equipment items and sets, kits, and outfits (SKOs). It is also responsible for the data management of all National Item Identification Numbers (NIINs) and Line Item Numbers (LINs) and any maintenance actions against those items, bill of materials (BOM) management, configuration management, Program Objective Memorandum (POM) development, and acts as the financial Other Procurement Army funds (OPA) manager. The division provides internal support to USAMMA directorates such as the Medical Maintenance Directorate (M3D), Force Sustainment Directorate (FSD), Force Integration and Operations Directorate (FI&O), and Force Projection Directorate (FPD) in support of the APS, FMS, and OTSG-CS. It integrates acquisition and logistics actions with DLA-TS, and collaborates closely with the capability developer, AMEDDC&S, AMEDD Test Board.

c. The following are functions of the ILS:

- (1) POM/PPBE Process for Standard Equipment and Sets.
- (2) OPA Procurements.
- (3) Test/Form Fit Function Coordination.
- (4) NSN Sourcing.
- (5) Support Strategy.
- (6) Lead Source Selection.
- (7) SOCOM Support.
- (8) Set Management.
- (9) Equipment Management.
- (10) Standardizing/Data Management.

This list includes all research and development programs related to managed commodities. Additional details include patient movement items and Special Operations Command support.

## **1-6. PURPOSE AND APPLICABILITY**

This SB 8-75-S2 issue outlines the policies and procedures that are used by the USAMMA PMO MD for TOE management of medical field equipment and supplies, and UA management.

## **1-7. OVERVIEW OF SB 8-75-S2**

a. Chapter 2 provides information on the supportability analyses conducted by the PMO MD to describe the strategic roadmap of logistics supportability functions and the planning necessary to influence the system's design from concept to disposal. The support strategy summarizes the results of the logistics analysis, planning, and acquisition. All elements of logistics and related disciplines are included in the support strategy.

b. Chapter 3 lists the Equipment Items Support and Consumables Handbooks developed by the PMO MD. These handbooks can be used to quickly identify shortage items at the time of issue, during unit inventory, and to resupply the consumables. In addition, these handbooks can be used as a guide for resupply.

c. Chapter 4 discusses information in the UAs. Included is information on how to recommend improvements and report errors in the UAs, and information on UA listings for consumable/support items.

d. Chapter 5 contains maintenance-related articles for specific equipment items.

## CHAPTER 2. SUPPORTABILITY ANALYSIS

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### 2-1. INTRODUCTION

a. A supportability analysis is a DoD required milestone decision authority (MDA) document conducted by the USAMMA PMO MD to describe the strategic roadmap of logistics supportability functions and the planning necessary to influence the system's design from conception to disposal. The support strategy summarizes the results of the logistics analysis, planning, and acquisition for the Milestone Decision Authority (MDA) so that they can determine if the equipment is suitable and or ready for entrance into the supply system. All elements of logistics and related disciplines are included in the support strategy.

b. The support strategy addresses the responsibilities of the materiel developer and other organizations to maintain appropriate oversight of the fielded system. Oversight includes the identification of, and appropriate response to, performance, readiness, ownership cost, and support issues. Likewise, there is an analysis of sustainment and technology insertion, operational readiness floats (ORFs), contractor logistics support (CLS), forward-repair activities (FRAs), and original equipment manufacturer (OEM) maintenance are considered as part of the overall strategy.

### 2-2. SUPPORT STRATEGY

a. An acquisition strategy summary is included in the support strategy to identify the probable contract vehicle for procurement, basis of issue (BOI), estimated unit cost, total cost to the AMEDD BOI, and expected life of the item.

b. A clinical application summary is included for reference and to identify capabilities that are complimentary or overlapping.

c. The following logistics support elements are addressed:

- (1) Maintenance Planning
- (2) Support and Test Equipment
- (3) Training and Training Support
- (4) Manpower and Personnel
- (5) Supply Support
- (6) Technical Data
- (7) Computer Resources Support
- (8) Facilities and Infrastructure
- (9) Packaging, Handling, Storage and Transportation
- (10) Design Interfaces
- (11) Product Support Management
- (12) Sustainment Engineering

d. A materiel summary is included detailing cataloging, depot stock, and central management and procurement procedures. USAMMA is in the process of reviewing and updating the support strategy by implementing a process improvement team.

### 2-3. LOGISTICS SUPPORT ELEMENTS

a. Maintenance Planning

(1) Title 10 U.S.C. 2464, a DoD policy, requires organic core maintenance capabilities. Such capabilities provide effective and timely response to surge demands, ensure competitive capabilities, and sustain institutional expertise. Within statutory limitations, support concepts for new and modified systems shall maximize the use of contractor-provided, long-

term, total lifecycle logistics support that combines depot-level maintenance for non-core-related workload along with wholesale and selected retail materiel management functions. Maximizing the use of contractor-provided support is not a mandate, merely a suggestion for consideration.

(2) Best value over the lifecycle of the system and use of existing contractor capabilities, particularly while the system is in production, shall be considered a key determinant in the development of the strategy. Long-term access to data is required for competitive sourcing of systems support throughout the lifecycle.

(3) USAMMA is developing a separate document dedicated to maintenance; it is called the maintenance plan.

b. Support and Test Equipment

(1) All equipment (mobile or fixed) required to support the operation and maintenance (O&M) of a materiel system is evaluated. This includes associated multi-use support items, ground-handling and maintenance equipment, tools, meteorology and calibration equipment, and manual/automatic test equipment (ATE).

(2) The selection of support and test equipment is developed based on the size, weight and complexity of the equipment, the likelihood of need, and the ability of the user to utilize it effectively.

(3) A system support package (SSP) will be defined and evaluated during testing for large complex systems. This package consists of spare and repair parts, manuals, training package, special tools and test, measurement, and diagnostic equipment (TMDE), and unique software. The SSP is flexible and is tailored to individual system requirements.

c. Training and Training Support

(1) The support strategy shall address and identify training initiatives that enhance the user and maintainer capabilities, improve readiness, or reduce individual and collective training costs. Planned training shall maximize the use of new learning techniques, simulation technology, embedded training, and multimedia training to reduce the costs.

(2) USAMMA works with the training community to develop options for individual, collective, and joint training for personnel who will operate, maintain, support, and provide training for the system. These options may include factory, resident, or new equipment training.

d. Manpower and Personnel

(1) The support strategy addresses any changes to manpower requirements or military occupational specialties (MOS) for system operators, maintainers, or support personnel.

(2) Actions to combine, modify, or establish new military occupational specialties or additional skill indicators, or issues relating to hard-to-fill occupations are identified.

(3) Human factors engineering (HFE) and man-machine interfaces are considered for both operator and maintainer personnel.

e. Supply Support

(1) The support strategy identifies the source of supply support, including support management functions, that maximizes service to the user while minimizing cost.

(2) Organic supply sources of support are selected when they offer the best value. Particular attention is given to prime vendor and electronic catalog contracts for consumables and parts support.

f. Technical Data

(1) Technical data, scientific, or technical information recorded in any form or medium (such as manuals, drawings, and computer software), necessary to operate and maintain the system are identified and procured if economically feasible.

(2) Manufacturer's literature is available in both PDF and IETMs. These resources are also available for the maintainer and may be ordered from USAMMA's website at <http://www.usamma.amedd.army.mil>.

g. Computer Resource Support

(1) Computer resource support involving facilities, hardware, software, documentation, manpower, and personnel needed to operate and support computer systems are documented in the support strategy. In addition, this analysis evaluates the BIT systems, all computer resources that interface with the test system, and all off-equipment computer resources.

(2) Consideration of computer resource support ensures that computer resources are integrated, supportable, practical, and cost effective.

h. Facilities and Infrastructure

(1) Impact on facilities is evaluated in the support strategy. These include permanent, semi-permanent, or temporary real property assets required to operate and support the materiel system, including conducting studies to define types of facilities or facility improvements, locations, space needs, utilities, environmental requirements, real estate requirements, and equipment. Most medical equipment does not require changes to any facility.

(2) If new facilities are required or require modifications, military construction (MILCON) may be budgeted and coordinated dependent upon the size, cost, and other system factors identified.

i. Packaging, Handling, Storage, and Transportation

(1) Identification of the resources, processes, procedures, design considerations, and methods to ensure all system, equipment, and support items are preserved, packaged, handled, and transported are documented. This includes environmental considerations, equipment preservation requirements for short- and long-term storage, and transportability.

(2) The support strategy addresses the ability of the system to satisfy the rigors of transportation and storage utilizing testing. Adherence to applicable Military Standards (MIL-STDs), U.S. Army regulations (ARs), and the American Society of Testing and Materials (ASTM) is documented. The following items are considered:

- (a) System constraints (design specifications, item configuration, and safety precautions)
- (b) Geographic and environmental restrictions
- (c) Special handling equipment and procedures
- (d) Impact on spare or repair parts storage requirements
- (e) Environmental impacts and constraints



j. Design Interfaces

Design interface is considered within the scope of operational readiness and support resource requirements. Consideration is given to standardization, interoperability, safety, security, environmental and hazardous materials, and legal requirement

k. Product Support Management

Product support management is the development and implementation of product support strategies to ensure supportability is considered throughout the system lifecycle.

l. Sustainment Engineering

Sustainment engineering ensures continued operation and maintenance of a system with managed (i.e., known) risk. Sustaining engineering involves the identification, review, assessment, and resolution of deficiencies throughout a system's lifecycle. It both returns a system to its base-lined configuration and capability, and identifies opportunities for performance and capability enhancement.

**2-4. OBTAINING DOCUMENTATION**

The support plans are not available for download or viewing but the maintenance plans are. Only personnel with a ".mil" email address may obtain the Equipment Maintenance Plans. To receive these plans via email, go to <http://www.usamma.amedd.army.mil> and choose "Equipment" in the left column; then scroll to "Medical Maintenance Information" and choose "Equipment Maintenance Plans."

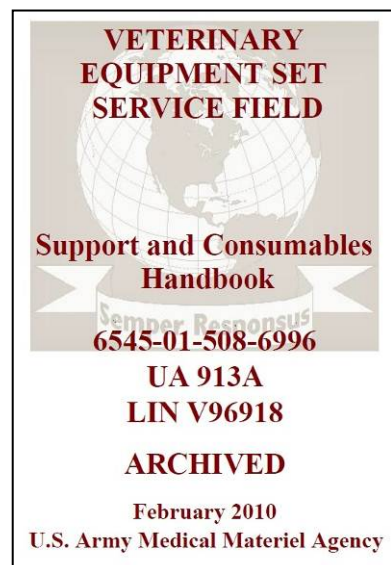
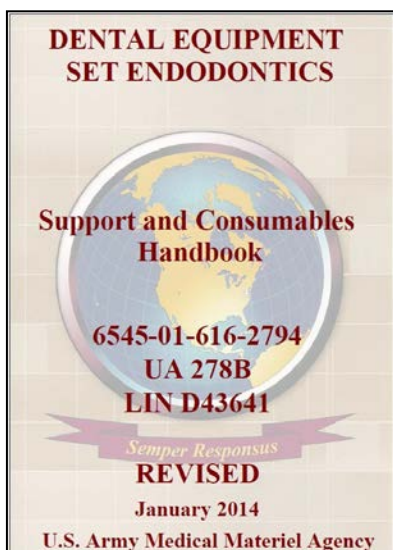
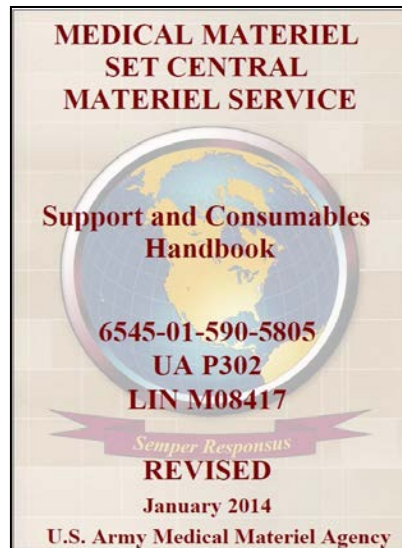
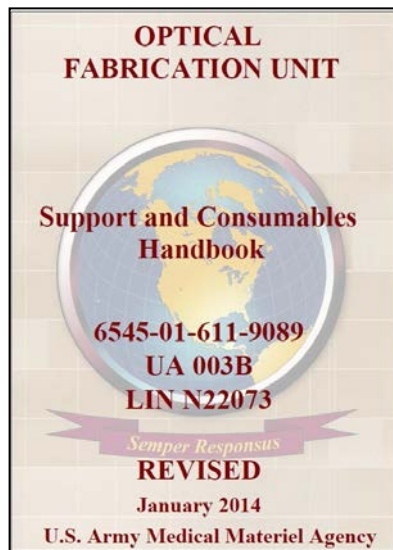
## **CHAPTER 3. EQUIPMENT ITEMS SUPPORT AND CONSUMABLES HANDBOOKS**

### **3-1. INTRODUCTION**

The USAMMA PMO MD has developed handbooks that will aid units in the identification of start-up and/or resupply accessories and consumable items that are required to operate medical equipment.

### **3-2. SUPPORT AND CONSUMABLES HANDBOOK COMPONENTS**

The unit assemblage (UA) handbooks issued by USAMMA contain important information about the medical equipment items, accessories, and consumables found within the set including NSNs, nomenclatures, part numbers, quantities, unit of issue, unit price, manufacturer or distributor, shelf life, refrigeration requirements, system descriptions, the USAMMA point of contact, and much more. Handbooks can be used to quickly identify shortage items at time of issue, during unit inventory, and to resupply consumables. The covers of four random handbooks are illustrated below.



**3-3. LIST OF MEDICAL EQUIPMENT SUPPORT AND CONSUMABLES HANDBOOKS**

UA	LIN	Set NIIN	Nomenclature	Date
			000000 UA EQUIPMENT LIST REPORT	7/31/2013
003A	N22073	15257095	UA003A OPTICAL FABRICATION UNIT ARCHIVED	2/19/2013
003B	N22073	16119089	UA003B OPTICAL FABRICATION UNIT	1/9/2014
006A			UA006A OPTICAL EQUIPMENT SET MULTIVISION AUGMENTATION ARCHIVED	6/11/2013
006B	P47705	16126750	UA006B OPTICAL EQUIPMENT SET MULTIVISION AUGMENTATION	1/9/2014
009A	M29451	15595393	UA009A MEDICAL EQUIPMENT SET PHYSICAL FLIGHT SURGEON	1/9/2014
079A	F95504	15596425	UA079A DENTAL INSTRUMENT AND SUPPLY SET - EMERGENCY TREATMENT FIELD ARCHIVED	3/19/2013
079B	F95504	16160792	UA079B DENTAL INSTRUMENT AND SUPPLY SET - EMERGENCY TREATMENT FIELD	1/9/2014
106A	M31506	9494000	UA106A OCCUPATIONAL HEALTH SURVEY SET ARCHIVED	3/19/2013
106B	M31506	16164348	UA106B MEDICAL EQUIPMENT SET OCCUPATIONAL HEALTH SURVEILLANCE	1/9/2014
107A	Y36849	15074313	UA107A MEDICAL EQUIPMENT SET WATER QUALITY ANALYSIS ARCHIVED	8/5/2011
107C	Y36849	15758826	UA107C MEDICAL EQUIPMENT SET WATER QUALITY ANALYSIS ARCHIVED	5/3/2013
107D	Y36849	16179459	UA107D MEDICAL EQUIPMENT SET WATER QUALITY ANALYSIS	1/13/2014
109A	M28909	15216669	UA109A MEDICAL EQUIPMENT SET INDUSTRIAL HYGIENE SURVEY - FIELD ARCHIVED	12/19/2013
109B	M28909	16202267	UA109B MEDICAL EQUIPMENT SET INDUSTRIAL HYGIENE SURVEY - FIELD	1/9/2014
124A	H10793	15596551	UA124A ENTOMOLOGICAL COLLECTING KIT FIELD ARCHIVED	3/19/2013
124B	H10793	16164180	UA124B ENTOMOLOGICAL COLLECTING KIT FIELD	1/9/2014
174A	D43802	15294218	UA174A DENTAL EQUIPMENT SET COMPREHENSIVE DENTAL ARCHIVED	5/10/2013
174B	D43802	16180718	UA174B DENTAL EQUIPMENT SET COMPREHENSIVE DENTAL	1/9/2014
179A	D39228	15294225	UA179A DENTAL EQUIPMENT SET - DENTAL HYGIENIST ARCHIVED	3/21/2013
179B	D39228	16158728	UA179B DENTAL EQUIPMENT SET - DENTAL HYGIENIST	1/9/2014
207A	M24993	15216670	UA207A MEDICAL EQUIPMENT SET EPIDEMIOLOGY SERVICE FIELD 2004 ARCHIVED	3/19/2013
207B	M24993	16166159	UA207B MEDICAL EQUIPMENT SET EPIDEMIOLOGY SERVICE FIELD	1/9/2014
211B	M22214	15406695	UA211B MEDICAL EQUIPMENT SET ENDEMIC DISEASE MICROBIOLOGY	1/9/2014
212B	M37839	15405858	UA212B MEDICAL EQUIPMENT SET ENDEMIC DISEASE VETERINARY	1/9/2014
213B	M43740	15406701	UA213B MEDICAL EQUIPMENT SET LAB GENERAL FIELD AREA MEDICAL LAB	1/9/2014
214B	M33322	15405791	UA214B MEDICAL EQUIPMENT SET ANIMAL PATHOLOGY	1/9/2014
215B	M37771	15406720	UA215B MEDICAL EQUIPMENT SET ENTOMOLOGICAL LAB-2006	1/9/2014
216B	M22714	15406773	UA216B MEDICAL EQUIPMENT SET AREA MED LAB INDUSTRIAL HYGIENE 2006	1/9/2014
218B	M25180	15406715	UA218B MEDICAL EQUIPMENT SET ENVIRONMENTAL HEALTH-2006	1/9/2014
219B	M29659	15406780	UA219B MEDICAL EQUIPMENT SET LABORATORY RADIOLOGICAL-2006	1/9/2014
220B	M23718	15406799	UA220B MEDICAL EQUIPMENT SET BIOLOGICAL WARFARE MICROBIOLOGY	1/9/2014
221B	M23468	15406800	UA221B MEDICAL EQUIPMENT SET BIOCHEMISTRY AND CHEM WARFARE 2006	7/12/2013

UA	LIN	Set NIIN	Nomenclature	Date
2256	M26413	14964830	UA2256 GROUND AMBULANCE EQUIPMENT ITEMS ARCHIVED	1/13/2011
2257	M29213	14964855	UA2257 AIR AMBULANCE EQUIPMENT ITEMS ARCHIVED	1/13/2011
2261	M29633	14964819	UA2261 MEDICAL PATIENT HOLD ARCHIVED	1/13/2011
2267	M45375	14964834	UA2267 FST ARCHIVED	4/29/2009
244A		15866504	UA244A MEDICAL EQUIPMENT SET AIR AMBULANCE 4 LITER 2010 ARCHIVED	9/24/2012
245B		15729963	UA245B MEDICAL EQUIPMENT SET COMBAT LIFE SAVER	1/9/2014
246C	U65480	16092699	UA246C MEDICAL EQUIPMENT SET COMBAT MEDIC	1/9/2014
249B	M23673	15375022	UA249B MEDICAL EQUIPMENT SET CHEMICAL AGENT PATIENT TREATMENT	1/9/2014
254A		15525203	UA254A MEDICAL EQUIPMENT SET MINE RESISTANT AM ARCHIVED	9/24/2012
256A	M26413	15346129	UA256A MEDICAL EQUIPMENT SET GROUND AMBULANCE ARCHIVED	10/6/2011
256B	M26413	15684916	UA256B MEDICAL EQUIPMENT SET GROUND AMBULANCE ARCHIVED	9/24/2012
256C	M26413	15984589	UA256C MEDICAL EQUIPMENT SET GROUND AMBULANCE	1/9/2014
257A	M29213	15346139	UA257A MEDICAL EQUIPMENT SET AIR AMBULANCE EQUIPMENT ITEMS ARCHIVED	4/28/2011
257B	M29213	15850537	UA257B MEDICAL EQUIPMENT SET AIR AMBULANCE EQUIPMENT ITEMS	1/9/2014
261A	M29633	15357061	UA261A MEDICAL EQUIPMENT SET PATIENT HOLDING SQUAD FIELD LIGHTWEIGHT ARCHIVED	12/19/2012
261B	M29633	16120290	UA261B MEDICAL EQUIPMENT SET PATIENT HOLDING SQUAD FIELD LIGHTWEIGHT	1/9/2014
262A	M45613	15216673	UA262A MEDICAL EQUIPMENT SET X-RAY FIELD LIGHTWEIGHT	1/16/2014
263C	M29159	15595839	UA263C MEDICAL EQUIPMENT SET LABORATORY LIGHTWEIGHT	1/9/2014
264A	M30499	15346135	UA264A MEDICAL EQUIPMENT SET TRAUMA FIELD ARCHIVED	4/9/2010
265A	M30156	15346137	UA265A MEDICAL EQUIPMENT SET SICK CALL FIELD ARCHIVED	4/9/2010
267B	M45375	15346592	UA267B FORWARD SURGICAL TEAM EQUIPMENT ITEMS ARCHIVED	12/19/2012
267C	M45375	16120507	UA267C FORWARD SURGICAL TEAM EQUIPMENT ITEMS	1/9/2014
268A	M29999	15278010	UA268A MEDICAL EQUIPMENT SET SPECIAL FORCES TACTICAL EQUIPMENT SET ARCHIVED	9/27/2011
268B	M29999	15626036	UA268B MEDICAL EQUIPMENT SET SPECIAL FORCES TACTICAL-2008	1/9/2014
269A	M30499	15653507	UA269A MEDICAL EQUIPMENT SET TACTICAL COMBAT MEDICAL CARE ARCHIVED	9/13/2012
269B	M30499	16051778	UA269B MEDICAL EQUIPMENT SET TACTICAL COMBAT MEDICAL CARE	1/9/2014
270A	D39478	15294443	UA270A DENTAL EQUIPMENT SET X-RAY FIELD ARCHIVED	1/29/2013
270B	D39478	16132509	UA270B DENTAL EQUIPMENT SET X-RAY FIELD	1/9/2014
271A	D95617	15294440	UA271A DENTAL EQUIPMENT SET PROSTHETICS ARCHIVED	3/19/2013
271B	D95617	16158693	UA271B DENTAL EQUIPMENT SET PROSTHETICS	1/9/2014
273A	D95867	15294452	UA273A DENTAL EQUIPMENT SET MAINTAINING CARE AUGMENTATION ARCHIVED	7/16/2013
274A	D95343	15294449	UA274A DENTAL EQUIPMENT SET DENTAL SUPPORT ARCHIVED	7/16/2013
277A	D95730	15294430	UA277A DENTAL EQUIPMENT SET PERIODONTICS ARCHIVED	2/26/2013
278A	D43641	15295182	UA278A DENTAL EQUIPMENT SET ENDODONTIC ARCHIVED	7/11/2013
278B	D43641	16162794	UA278B DENTAL EQUIPMENT SET ENDODONTIC	1/17/2014

UA	LIN	Set NIIN	Nomenclature	Date
301A	M29701	15278013	UA301A MEDICAL EQUIPMENT SET PRIMARY GYN CARE	1/9/2014
3109			UA3109 MEDICAL EQUIPMENT SET INDUSTRIAL HYGIENE SURVEY FIELD ARCHIVED	12/1/2009
324A	N23712	15311946	UA324A OPTICAL EQUIPMENT SET FIELD COMBAT ARCHIVED	7/2/2013
4003			UA4003 OPTICAL FAB UNIT ARCHIVED	1/13/2011
412A		15400971	UA412A MEDICAL EQUIPMENT SET PHYSICAL THERAPY INITIAL ENTRY BCT-2006 UA 6412-2006 ARCHIVED	1/9/2014
412B	M05022	16175923	UA412B MEDICAL EQUIPMENT SET PHYSICAL THERAPY INITIAL ENTRY BCT	1/9/2014
4714			UA4714 DES COMPREHENSIVE DENTAL SUPPORT AND CONSUMABLES ARCHIVED	1/13/2011
4720			UA4720 DENTAL EQUIPMENT SET X-RAY FIELD ARCHIVED	8/5/2011
4728			UA4728 DENTAL EQUIPMENT SET ENDODONTIC ARCHIVED	4/9/2010
4901			UA4901 VETERINARY EQUIPMENT SET SERVICE FIELD ARCHIVED	8/5/2011
4905			UA4905 VES DETACHMENT 50 PATIENT SMALL ANIMAL ARCHIVED	4/29/2009
4912			UA4912 VETERINARIAN SET DETACHMENT 50 PATIENT SMALL ANIMAL ARCHIVED	4/29/2009
4913			UA4913 VETERINARIAN SET SERVICE FIELD ARCHIVED	1/12/2011
4914			UA4914 VETERINARIAN SET SERVICE FIELD ARCHIVED	10/10/2008
500A		15105870	UA500A MEDICAL EQUIPMENT SET SPECIAL OPERATIONS FORCE PHYSICAL THERAPY	1/9/2014
504A	M23423	15182964	UA504A MEDICAL EQUIPMENT SET BLOOD BANK PROCESSING DETACHMENT LAB ARCHIVED	8/5/2011
504B	M23423	15885883	UA504B MEDICAL EQUIPMENT SET BLOOD BANK PROCESSING DETACHMENT LAB	1/9/2014
505A	E56611	15434501	UA505A MEDICAL EQUIPMENT SET LABORATORY - SPECIAL OPERATIONS FORCES	1/9/2014
506A	M30249	15585451	UA506A MEDICAL EQUIPMENT SET SPECIAL OPERATIONS CIVIL AFFAIRS TREATMENT	1/9/2014
512A	U65754	15666524	UA512A VETERINARY EQUIPMENT SET ANIMAL MEDICINE AND SURGERY	1/9/2014
5257			UA5257 AIR AMBULANCE ARCHIVED	1/13/2011
5267			UA5267 FST EQUIPMENT ITEMS SUPPORT AND CONSUMABLES ARCHIVED	1/13/2011
623A	M45477	14535658	UA623A MEDICAL EQUIPMENT SET HUMANITARIAN ASSISTANCE ADULT AUGMENTATION	1/9/2014
624A	M45545	15432366	UA624A MEDICAL EQUIPMENT SET HUMANITARIAN ASSISTANCE SURGICAL AUGMENTATION	1/9/2014
625A	M29177	15427038	UA625A MEDICAL EQUIPMENT SET HUMANITARIAN ASSISTANCE PEDIATRIC AUGMENTATION	1/9/2014
7079	F95504	9274840	UA7079 DENTAL INSTRUMENT AND SUPPLY SET EMERGENCY TREATMENT FIELD ARCHIVED	4/9/2010
7124	H10793	9824121	UA7124 ENTOMOLOGICAL COLLECTING KIT FIELD ARCHIVED	10/6/2011
8007	T24386	15558683	UA8007 SHOP SET MEDICAL EQUIPMENT MAINTENANCE	1/9/2014
901A	M30340	15086972	UA901A VETERINARY EQUIPMENT SET ANESTHESIA ULTRASOUND AUGMENTATION ARCHIVED	3/16/2010
905A	M30136	15087015	UA905A VETERINARY EQUIPMENT SET DETACHMENT 50 PATIENT SMALL ANIMAL ARCHIVED	3/11/2010
905B	M30136	15646588	UA905B VETERINARY EQUIPMENT SET 50 PATIENT SMALL ANIMAL ARCHIVED	8/5/2011
905C	M30136	15814120	UA905C VETERINARY EQUIPMENT SET 50 PATIENT SMALL ANIMAL	1/16/2014

UA	LIN	Set NIIN	Nomenclature	Date
910B	V02063	15645852	UA910B VETERINARY EQUIPMENT SET FOOD INSPECTION	1/9/2014
912A	U65754	15399777	UA912A VETERINARY SURGICAL INSTRUMENT & SUPPLY SET ARCHIVED	4/9/2010
912B	U65754	15646576	UA912B VETERINARY EQUIPMENT SET ANIMAL MEDICINE & SURGERY	1/9/2014
913A	V96918	15086996	UA913A VETERINARY EQUIPMENT SET SERVICE FIELD ARCHIVED	4/9/2010
913B	V96918	15651000	UA913B VETERINARY EQUIPMENT SET SURVEILLANCE LAB BASIC	1/9/2014
914A	V02313	15087000	UA914A VETERINARY EQUIPMENT SET SERVICE FIELD ARCHIVED	4/9/2010
914B	V02313	15652069	UA914B VETERINARY EQUIPMENT SET SURVEILLANCE LAB AUGMENTATION	1/9/2014
920B	V02346	15651015	UA920B VETERINARY EQUIPMENT SET ANIMAL DISEASE DIAGNOSTIC & POSTMORTEM KIT	1/9/2014
921B	M30067	15652104	UA921B VETERINARY EQUIPMENT SET LARGE ANIMAL FIELD	1/9/2014
9409	J00447	15371100	UA9409 JOINT BIOLOGICAL AGENT IDENTIFICATION AND DIAGNOSTIC SYSTEM (JBAIDS)	1/9/2014
CASE			JACASE CASES MEDICAL INSTRUMENT AND SUPPLY SETS AND ASSEMBLIES	1/9/2014
N301	M72936	15244460	UAN301 MEDICAL MATERIEL SET - OPERATING ROOM ARCHIVED	8/5/2011
N302	M08417	15244464	UAN302 MEDICAL MATERIEL SET CENTRAL MATERIEL SERVICE ARCHIVED	8/5/2011
N303	M73425	15246167	UAN303 MMS LABORATORY GENERAL DEPLOYABLE MSES ARCHIVED	1/13/2011
N304	M09166	15246160	UAN304 MMS LABORATORY LIQUID BLOOD BANK ARCHIVED	10/22/2008
N305	M86675	15229741	UAN305 MEDICAL MATERIEL SET RADIOLOGY	1/9/2014
N306	M73118	15265128	UAN306 MEDICAL MATERIEL SET - PHARMACY	1/9/2014
N307	M72300	15277016	UAN307 MEDICAL MATERIEL SET X-RAY RAD FLUORO ARCHIVED	8/27/2012
N308	M73050	15277020	UAN308 MEDICAL MATERIEL SET TRIAGE EMERGENCY PRE-OP ARCHIVED	8/5/2011
N309	M09576	15277022	UAN309 MEDICAL MATERIEL SET POST-OP ICU WARD ARCHIVED	8/5/2011
N310	M08599	15277613	UAN310 MEDICAL MATERIEL INTERMEDIATE CARE WARD ARCHIVED	8/5/2011
N311	M48055	15285018	UAN311 MEDICAL MATERIEL SET MINIMAL CARE WARD ARCHIVED	8/5/2011
N312	M72050	15278008	UAN312 MEDICAL MATERIEL SET PHYSICAL OCCUPATIONAL THERAPY - DEPMEDS	1/9/2014
N314	M72868	15277999	UAN314 MEDICAL EQUIPMENT SET ORTHOPEDIC CAST CLINIC - DEPMEDS ARCHIVED	9/24/2012
N315	M08667	15052715	UAN315 MEDICAL MATERIEL SET OPHTHALMOLOGY CLINIC ARCHIVED	5/15/2013
N316	M31824	15277996	UAN316 MEDICAL MATERIEL SET OBGYN CLINIC	1/9/2014
N318	M48305	15052713	UAN318 MEDICAL MATERIAL SET NEUROSURGICAL AUG 2002 ARCHIVED	9/24/2012
N319	M47737	15052353	UAN319 MEDICAL MATERIEL SET GENERAL OPHTHALMOLOGY SURGICAL ARCHIVED	9/24/2012
N320	M09098	15093623	UAN320 MEDICAL MATERIEL SET MAXO FACIAL 2005	1/9/2014
N321	M47987	15216680	UAN321 MEDICAL MATERIEL SET MEDICAL MAINTENANCE ARCHIVED	9/24/2012
N334	M73175	15293904	UAN334 MEDICAL MATERIEL SET X-RAY LOWCAP DIAGNOSTIC PORTABLE	1/16/2014
N342	M08485	15275900	UAN342 MEDICAL MATERIEL SET CENTRAL MATERIEL SERVICE SPECIAL AUGMENT	1/9/2014
N403	M48987	15052714	UAN403 MEDICAL MATERIEL SET MICROBIOLOGY LABORATORY AUGMENTATION 2005	1/9/2014
N412		15278001	UAN412 MEDICAL MATERIEL SET PHYSICAL THERAPY ARCHIVED	9/24/2012

UA	LIN	Set NIIN	Nomenclature	Date
N413	M09099	15277664	UAN413 MEDICAL MATERIEL SET MEDICAL SERVICES CLINIC AUGMENTATION-2008	1/9/2014
N417	M32074	15281683	UAN417 MEDICAL MATERIEL SET ORTHOPEDIC SURGERY AUG - 2005 ARCHIVED	8/5/2011
N419	M86425	15001674	UAN419 MEDICAL MATERIEL SET VITREO-RETINAL SURGERY ARCHIVED	9/24/2012
N432	M09826	15293911	UAN432 MEDICAL MATERIEL SET RADIOLOGY COMPUTERIZED TOMOGRAPHY CT	1/9/2014
N433		15682633	UAN433 MEDICAL MATERIEL SET RADIOLOGY COMPUTERIZED TOMOGRAPHY SCANNER FIELD ARCHIVED	9/24/2012
N436	M08451	15052710	UAN436 MEDICAL MATERIEL SET ANATOMICAL PATHOLOGY CYTOLOGY DEPMEDS	1/9/2014
N437	M86493	15284789	UAN437 MEDICAL MATERIEL SET HEMODIALYSIS AUGMENTATION	1/9/2014
N477	D65925	15666863	UAN477 DENTAL MATERIEL SET ORAL & MAXILLOFACIAL SURGICAL SET CSH 3 DAYS	1/9/2014
N503	M73482	15246157	UAN503 MEDICAL MATERIEL SET LABORATORY GENERAL 84 BED EQUIPMENT SET	1/9/2014
N504	M73732	15246149	UAN504 MEDICAL MATERIEL SET LABORATORY LIQUID BLOOD BANK 84 BED CSH CO	1/9/2014
N506	M73254	15265130	UAN506 MEDICAL MATERIEL SET PHARMACY - 84 BED EQUIPMENT SET ARCHIVED	9/24/2012
N513	M72423	15275893	UAN513 MEDICAL MATERIEL SET MEDICAL SERVICE CLINIC 84 BED CSH CO	1/9/2014
N523	M72084	15216675	UAN523 MEDICAL MATERIEL SET MEDICAL MAINTENANCE 84 BED	1/15/2014
N542	M13428	15275890	UAN542 MEDICAL MATERIEL SET CENTRAL MATERIEL SERVICE SPECIAL 84 BED ARCHIVED	9/24/2012
N583	M14517	15299063	UAN583 MEDICAL MATERIEL SET MEDICAL SUPPLY 84 BED CSH CO ARCHIVED	9/24/2012
N703	M13275	15246153	UAN703 MEDICAL MATERIEL SET LABORATORY GENERAL 164 BED EQUIPMENT SET	1/9/2014
N704	M08849	15249238	UAN704 MEDICAL MATERIEL SET LABORATORY LIQUID BLOOD BANK 164 BED CSH CO	1/9/2014
N706	M73186	15263337	UAN706 MEDICAL MATERIEL SET PHARMACY - 164 BED EQUIPMENT SET ARCHIVED	9/24/2012
N713	M72355	15275901	UAN713 MEDICAL MATERIEL SET MEDICAL SERVICE CLINIC 164 BED-2005	1/9/2014
N725	M72152	15216677	UAN725 MEDICAL MATERIEL SET MEDICAL MAINTENANCE 164 BED	1/15/2014
N742	M08951	15275888	UAN742 MEDICAL MATERIEL SET CENTRAL MATERIEL SERVICE SPECIAL 164 BED	1/9/2014
N783	M14585	15299040	UAN783 MEDICAL MATERIEL SET MEDICAL SUPPLY 164 BED COMBAT SUPPORT HOSPITAL ARCHIVED	9/24/2012
P301	M72936	15905787	UAP301 MEDICAL MATERIEL SET - OPERATING ROOM	1/9/2014
P302	M08417	15905805	UAP302 MEDICAL MATERIEL SET CENTRAL MATERIEL SERVICE	1/9/2014
P307	M72300	16006891	UAP307 MEDICAL MATERIEL SET X-RAY RADIOGRAPHIC FLUOROSCOPIC	1/9/2014
P308	M73050	15859899	UAP308 MEDICAL MATERIEL SET TRIAGE EMERGENCY PRE-OP	1/9/2014
P309	M09576	15859914	UAP309 MEDICAL MATERIEL SET POST-OP ICU WARD	1/9/2014
P310	M08599	15859953	UAP310 MEDICAL MATERIEL SET INTERMEDIATE CARE	1/9/2014
P311	M48055	15860020	UAP311 MEDICAL MATERIEL SET MINIMAL CARE WARD	1/9/2014
P314	M72868	15987163	UAP314 MEDICAL EQUIPMENT SET ORTHOPEDIC CAST CLINIC	1/9/2014
P315	M08667	15990103	UAP315 MEDICAL MATERIEL SET OPHTHALMOLOGY CLINIC	1/9/2014
P417	M32074	15932925	UAP417 MEDICAL MATERIEL SET ORTHOPEDIC SURGERY AUG - 2005	1/9/2014

UA	LIN	Set NIIN	Nomenclature	Date
P506	M73254	16026264	UAP506 MEDICAL MATERIEL SET PHARMACY - 84 BED EQUIPMENT SET	1/9/2014
P542	M13428	15913468	UAP542 MEDICAL MATERIEL SET CENTRAL MATERIEL SERVICE SPECIAL 84 BED	1/9/2014
P583	M14517	16002237	UAP583 MEDICAL MATERIEL SET MEDICAL SUPPLY 84 BED CSH CO	1/9/2014
P706	M73186	16026263	UAP706 MEDICAL MATERIEL SET PHARMACY - 164 BED EQUIPMENT SET	1/9/2014
P783	M14585	16062838	UAP783 MEDICAL MATERIEL SET MEDICAL SUPPLY 164 BED COMBAT SUPPORT HOSPITAL	1/9/2014
T500		15324894	UAT500 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) SET COMBAT SUPPORT HOSPITAL	1/9/2014
T501		15321908	UAT501 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) SET DIVISION	1/9/2014
T502		15321901	UAT502 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) SET DENTAL	1/9/2014
T503		15321913	UAT503 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) SET MEDLOG COMPANY	1/9/2014
T504		15321909	UAT504 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) SET MEDLOG COMPANY REAR ARCHIVED	3/29/2013
T505		15498326	UAT505 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) SPECIAL OPERATIONS	1/9/2014

#### 3-4. OBTAINING THE SUPPORT AND CONSUMABLES HANDBOOKS

Current and archived equipment UA handbooks are available on the USAMMA website at [http://www.usamma.amedd.army.mil/medical\\_equipment\\_handbooks.cfm](http://www.usamma.amedd.army.mil/medical_equipment_handbooks.cfm). These documents are only available to personnel who reside in a military (.mil) domain. Please select the handbooks you wish to receive, enter your email address, and the system will send the requested equipment UA handbooks to your email address.



## CHAPTER 4. UNIT ASSEMBLAGE INFORMATION

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### 4-1. UPDATING UAs

a. UAs, also known as medical sets, kits, and outfits (SKOs), are clinically and logistically reviewed and revised by the Directorate of Combat and Doctrine Development (DCDD), AMEDDC&S, Fort Sam Houston TX, on a 3-year basis in coordination with USAMMA. The UAs contain multiple equipment, components, medical and surgical (MEDSURG), and non-medical items that make up the set. The revised UAs are documented and published after the new versions are approved by the combat developer and the UA has been added to the unit's modification TOE (MTOE)/TOE.

b. Once the new versions for the non-hospital sets are approved, they are published on the USAMMA website: <http://www.usamma.amedd.army.mil>. The UAs are a snapshot of the approved equipment, components, MEDSURG, and non-medical items as of the date it was approved.

c. A new approved UA is unique for the time it is approved until the next review and approval are conducted by the combat developer. The LIN for a UA will remain the same from one version to another, but the NSN and UA code (UAC) will change when a major set review has been conducted and approved. Maintenance changes, such as replacing a non-procurable item with a procurable item, occur on a continuous basis. For the most accurate UA results, search for the UA listing using the NSN listed on the unit's property book listing. The AR 40-61, Chapter 10, Section II, identifies that medical equipment sets, also known as level II non-hospital sets, with a numeric or numeric-alpha UAC. Due to the possibility of the UAC changing, as well as the NSN of the new version of the set, units need to identify the sets they are authorized by the LIN, NSN, and UAC. The set nomenclature also displays the year of the update.

d. Hospital sets are also published on the USAMMA website and units must maintain these sets based on the documentation USAMMA provided them during their fielding of the hospital sets (reference AR 40-61, Chapter 10, Section III). These hospital sets, known as level III sets, are identified with a four-character alpha-numeric UA number. The combat support hospitals (CSHs) are not required to update their hospital sets until USAMMA upgrades them with a new version, identified by the approval document from the combat developer, based on a USAMMA-established fielding schedule.

e. Another enhancement to our website for UAs is the functional description for each of the sets. The functional description is a valuable document that identifies the requirements and mission capability of the set by LIN and nomenclature.

f. This information can be displayed by clicking on the graphic (LIN description) legend button that appears on the set NSN when you access the individual CSH component listings by either set NSN or LIN. This is applicable for sets only.

- (1) Go to [www.usamma.amedd.army.mil](http://www.usamma.amedd.army.mil)
- (2) Choose "Products"
- (3) Under data applications choose "Medical Unit Assemblage (UA) Listings" *revised*
- (4) Choose "Unit Assemblages"
- (5) Search by "UA Code"
- (6) Click on LIN description graphic in last column to get a functional description as a MS

Word document

g. For UA listings not available on the web or for those activities without web access, you may request electronic copies. A request should be submitted in writing identifying the set NSN, UAC, and LIN to the address shown below. Telephone requests may also be made to USAMMA's Customer Relations Management at 301-619-4301 (DSN 343-4301) or 301-619-1288 (DSN 343-1288).

Commander, USAMMA  
ATTN: Customer Relations Management  
693 Neiman Street  
Fort Detrick MD 21702-5001

#### **4-2. RECOMMENDING IMPROVEMENTS AND REPORTING ERRORS FOR MEDICAL SKOs**

a. The DCDD and AMEDDC&S are responsible for the requirements of medical UAs. They are also responsible for the clinical review and update of these UAs.

b. As stated in AR 40-61, USAMMA is responsible for the maintenance and management of UAs, as well as responsible for the distribution and publication of this data. One of USAMMA's UA publications for medical sets is the official DA SC 6545-8 Series, Components List/Hand Receipt. As stated in the supply catalog (SC), any recommendations or suggestions for improvement to the components of sets should be provided in writing on DA Form 2028, *Recommended Changes to Publications and Blank Forms*.

c. To make suggestions or report problems, the DA 2028 should be completed and mailed to:

Commandant  
AMEDD Center & School  
Directorate of Combat Doctrine Development  
ATTN: HSMC-FCM-M  
Fort Sam Houston TX 78234-6100

#### **4-3. WEB-ACCESSIBLE UA PRODUCTS**

a. The UA products listed below are available on the USAMMA website at: [www.usamma.amedd.army.mil](http://www.usamma.amedd.army.mil).

b. Select the "Products" from the list on the left of the screen. The link for UA listings is under "Data Applications." Both U.S. Army divisional sets and hospital sets are currently available through our website. On the initial screen for UAs under "Medical Unit Assemblage (UA) Listings," there are several options available to obtain information:

(1) UAs – Searches the UAs (sets). After the UA is found, it can be expanded to view components. The menu option for UAs contains five search criteria unique to the set:

- NIIN – Searches by NIIN
- UA Code – Searches UA code
- BOM USAGE – Searches by BOM usage
- LIN – Searches LIN of the set
- SUPPLY CATALOG CODE (SCC) – Searches SCC
- NOMENCLATURE (NOMEN) – Searches the specific name of the set

(2) Components – Searches for all sets that contain this component. You may then navigate to the UA, which may then be selected and expanded, into all its components. The menu options for "Components" contain six search criteria:

- NIIN – Searches by NIIN
- BOM USAGE – Searches by BOM usage
- Therapeutic Index Number (TIN) – Searches TIN to find a list of all components with the specific TIN
- LIN – Searches LIN to find a list of all components with specific LIN
- CAGE code number – Searches to find a list of all components with the specific commercial and government entity code (CAGE)

- NDC – Searches to find a list of all components with the specific national drug code (NDC)
- NOMEN – Searches to find a list of all components with specific nomenclature

(3) Relationships – Search under “DLSC Phrase” of NIINs to obtain the phase code for related products.

(4) Consumable/Support Items Report - This query provides a list of all medical equipment that has been reviewed by USAMMA. USAMMA has identified consumable/support items that are needed to keep the equipment functional. This report is a resource to customers who may have the equipment on hand and need to be able to requisition consumable NSNs in order for the equipment to continue to be operational. This information is provided to customers in an MS EXCEL format that can be downloaded.

(5) Supply Catalogs for Current UAs – Component authorizations are published as UALs listed under this heading.

(6) Unit Assemblage (UA) Component Tracking – Searches the UAs (sets). After the UA is found, it can be expanded to view components. The menu option for UAs contains five search criteria unique to the set:

- BOM NIIN – Searches by BOM NIIN
- UAC – Searches UA code
- Component NIIN – Searches by component NIIN
- Replaced NIIN – Searches by replacement NIIN
- LIN – Searches by LIN
- Transaction Type – generates MS Excel spreadsheet

#### **4-4. CONSUMABLE AND SUPPORT ITEMS FOR MEDICAL EQUIPMENT UNIQUE TO A SET ARE IDENTIFIED IN THE PUBLISHED UA LISTINGS UNDER MEDSILS ON THE USAMMA WEBSITE**

a. Medical equipment items that may be a component of a medical SKO or may be separately authorized for use with sets may require consumable/ support items to keep the equipment operational. Examples of consumable items include paper, fluid, or tubing.

b. USAMMA maintains a cross-reference of medical equipment to their consumable/support items as they are identified through specific manufacturers of the equipment. This information is make/model specific and continually updated based on research and communication with the manufacturers.

c. Downloaded UA reports reflect the consumable/support items identified to the equipment NSN. This report is available on the USAMMA website and is downloadable. The report can either be printed or opened onto the screen via MS Excel. UA reports for medical sets are available on the USAMMA website.

d. The consumable/support items are also available on a dropdown view of the equipment through the “MEDSILS” portion of the USAMMA website when the medical equipment NSN is queried. The query needs to be submitted by the NIIN; the NIIN is the last nine digits of the NSN.

**4-5. SUPPORT ITEMS AND REPAIR PARTS FOR MEDICAL EQUIPMENT UNIQUE TO AN END ITEM/ASSOCIATED SUPPORT ITEMS OF EQUIPMENT (ASIOE).**

a. Support items and repair parts are also viewable within the BOM view for that end item within theater enterprise-wide logistics systems (TEWLS).

b. You can also view the list of support items and high mortality repair part items within the set handbooks listed on the "MEDSILS" portion of the USAMMA website.

## CHAPTER 5. MEDICAL EQUIPMENT TECHNICAL UPDATES

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### 5-1. I-STAT (NSN 6630-01-526-7377) SOFTWARE UPDATE INSTRUCTIONS

If your organization currently has the I-Stat Blood Analyzer and has not yet registered with Abbott Laboratories at [www.abbottpointofcare.com](http://www.abbottpointofcare.com) as a privileged military user, we encourage you to do so with your .mil address. To register, click on "International and Distributor Information" in the quick links section in the lower right corner of the screen. Then click on "Distributor Info" at the top of the screen. Click on "U.S. Military." Click on "Register for Access." Use your military email address as your username and remember your password because a confirmation will NOT be sent back to you. After 24-48 hours, you will be approved and you can log back on again with the username and password you created. Follow the instructions below to download the software:

Double click on my computer  
 Double click on local disk C:  
 File > New Folder > Name it BINS

Go to [www.abbottpointofcare.com](http://www.abbottpointofcare.com)  
 Double click on "Distributor Information"  
 Double click on "Resources for Distributors, Repair Centers and US Military"  
 Sign in with your military email and password  
 Double click on sign in  
 Double click on US Military  
 Double click on software (A13, JAMS055B, JAMS122B)

YOU will see:

OPEN / SAVE / CANCEL / MORE INFO

Double click on SAVE

You will see:

SAVE IN with a drop down box  
 Double click on BINS

Click on the save button > files will transfer > "download complete" message appears when done

Close window

Double click on MY COMPUTER  
 Double click on BIMS  
 Double click on JAMMLITE  
 This will bring up the JAMMLITE box:

**Instrument**—choose analyzer type (defaults to 200 series, if have I-STAT1, choose 300 series)

**Port**—drop down box will have all open comports listed—choose comport the downloader or IR link is hooked up to.

**Application**—verify the Jackson Automated Management System (JAMS™) listed is the current version

**CLEW**—verify the JAMS™ i-STAT CLEW number listed is the current version  
 Click on Update

Follow directions on screen.

If the wrong comport is chosen, an error message will appear. Choose another comport and click on Update again.

If the correct comport is chosen, follow the instructions for handling the analyzer.

## **5-2. UPDATES FOR THE PICCOLO XPRESS, NSN 6530-01-547-9890**

a. The Piccolo Xpress, NSN 6630-01-547-9890 software can be requested from the Abaxis website. The request for software can be obtained at [www.Abaxis.com/support](http://www.Abaxis.com/support) under "Request Software" from menu on the right side of the page, or simply click on the link <http://updates.abaxis.com/verifier/>.

b. Before starting the software download you will need:

- (1) Abaxis Piccolo Xpress Blood Chemistry Analyzer
- (2) Analyzer serial number
- (3) PC running Windows® XP or Vista OS
- (4) Administrator privileges on the PC
- (5) PC with CD writer and CD writing software
- (6) Blank writable CD
- (7) Broadband Internet connection

c. If you are unable to download the software after registering as a user with Abaxis and require the CD, please e-mail [GovernmentSupport@Abaxis.com](mailto:GovernmentSupport@Abaxis.com). The package mailed to you will include:

- (1) Piccolo Xpress software version 2.1.23 CD
- (2) eGFR description and operation
- (3) eGFR enabling instructions.
- (4) Software installation instructions

d. If you have questions about the software installation or **you are not the main Piccolo Xpress operator for your facility**, please call Abaxis Medical Technical Support at 1-800-822-2947 or email [support@abaxis.com](mailto:support@abaxis.com).

## **5-3. TOOL KIT, MEDICAL EQUIPMENT MAINTENANCE AND REPAIR: REPAIRMAN'S, NSN 5180-00-611-7923, LIN W45334**

a. General Services Administration (GSA) is the integrated material manager for this tool kit. If your organization requires the tool kit and wishes to order one, please submit DA Form 1348, *Single Line Item Requisition Request System Document (Manual)* or GSA SF Form 344, *Multiuise Standard Requisitioning/Issue System Document*. The request can be submitted through your standard supply requisition system or faxed to the GSA at 816-926-7971.

b. Refer to SC 5810-8-A14, Tool Kit Medical Equipment Maintenance and Repair: Repairman's. This SC can be found on the USAMMA website at [www.usamma.amedd.army.mil](http://www.usamma.amedd.army.mil).

c. If you need additional information, please contact GSA at 816-926-6998.

#### **5-4. PREVENTIVE MAINTENANCE OF THE HEATER FOR THE WATER DISTRIBUTION AND WASTE WATER MANAGEMENT SYSTEM**

a. The electric water heater, NSN 4520-01-493-7423, is to provide a means of keeping the water in the potable waterlines from freezing when the system is operated in a cold environment.

b. The heater will require internal cleaning after each use. Do not operate the heater without flowing water. This will damage the heater. Unplug the power connection from the power box. Disconnect potable water hoses from the heater. Empty the water from the heater barrel by tipping the water heater and allow the water to empty from the quick disconnect fittings. Now remove the square tank and the gasket. Clean interior and reassemble with a new gasket.

#### **5-5. DIAGNOSTIC TEST KIT PROTOCOL HAEMONETICS APHERESIS DEVICE, NSN 6515-01-523-2067, LIN C19151**

a. This kit is used to calibrate and service the Apheresis, NSN 6515-01-523-2067. The diagnostic test kit NSN 6550-01-555-6832, is made up of the following items:

Optics/Line Sensor Test Cable Fixture, P/N: ETC-5156-00  
 Diagnostic Protocol, P/N: 47536-00  
 Kodak Photographic, P/N: 38372-00  
 Optics Adjusting Fixture, P/N: ETE-5007-00

b. These items are for use with the Apheresis Device, Platelet-Therapeutics, and NSN 6515-01-523-2067. Also available are repair parts by NSN:

NSN 5998-01-577-3749, Printed Circuit Board Backplane Repair Part  
 NSN 5998-01-577-2687, Driver Motor Apheresis  
 NSN 5998-01-577-3730, Printed Circuit Board Driver Repair Part

#### **5-6. HEMACOOOL BLOOD REFRIGERATOR, NSN 4110-01-506-0895**

a. In order to charge lithium batteries refer to HemaCool Operating Instructions for battery charging.

b. Lithium batteries work by shuttling lithium ions between the anode and cathode of the battery. The anode, source of the ions and electrons, is elemental lithium (or a lithium-containing compound) and the cathode, receptor of the ions and electrons, is a material capable of accepting lithium ions into its structure. When a battery is discharged, lithium ions flow from the anode to the cathode, the HemaCool. The battery can be charged by supplying an external electric current, which drives the lithium ions back to the anode. This charging process "resets" the anode and cathode so that the battery can power the HemaCool.

c. A lithium-ion battery provides 300-500 discharge/charge cycles. The battery prefers a partial, rather than a full, discharge. Frequent full discharges should be avoided when possible. Instead, charge the battery more often or use a larger battery. There is no concern of memory loss when applying unscheduled charges.

d. Aging of the lithium-ion is an issue that is often ignored. A lithium-ion battery in use typically lasts between 2-3 years. The capacity loss manifests itself in increased internal resistance caused by oxidation.

e. Avoid frequent full discharges because this puts additional strain on the battery. Several partial discharges with frequent recharges are better for lithium-ion than one deep one. Recharging a partially charged lithium-ion does not cause harm because there is no memory loss

(In this respect, lithium-ion differs from nickel-based batteries.) Short battery life in a HemaCool is mainly caused by heat rather than charge/discharge patterns. Charging Absorption Glass Mat (AGM) batteries:

(1) AGM sealed battery technology was originally developed in 1985 for military aircraft where power, weight, safety, and reliability were paramount considerations. In AGM sealed batteries, the acid is absorbed between the plates and immobilized by a very fine fiberglass mat. No silica gel is necessary. This glass mat absorbs and immobilizes the acid while still keeping the acid available to the plates. This allows a fast reaction between acid and plate material.

(2) The AGM battery has an extremely low internal electrical resistance. This, combined with faster acid migration, allows the AGM batteries to deliver and absorb higher rates of amperage than other sealed batteries during discharging and charging. In addition, AGM technology batteries can be charged at normal lead-acid regulated charging voltages; therefore, it is not necessary to recalibrate charging systems or purchase special chargers. Battery life is reduced at high temperatures – for every 15 degrees F over 77, battery life is cut in half.

f. USAMMA has published procedures for performing a technical inspection/service for the blood refrigerator unit. If you have any questions or comments, please contact USAMMA's Customer Relations Management at 301-619-4301/1288 (DSN 343-4301/1288).

**5-7. TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE)-GENERAL PURPOSE (GP), NSN 6625-00-883-8324, GP LIN J34824 GENERATOR REFERENCE SIGNAL SG-981/U**

This item has been deleted with the comment "this item has been recommended for TOE removal no replacement."

**5-8. NEW TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT-SPECIAL PURPOSE (SP), NSN 6151-01-555-0329, SLIN D05010 DIODE LASER LIGHT METER (DLLM)**

The DLLM will be medical TMDE used during the periodic calibration and/or repair of LIN D11280, diode laser system. The diode laser system is medical equipment used by ophthalmologists for the care and treatment of eye injuries.



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By Order of the Secretary of the Army.

Official:

Handwritten signature of Gerald B. O'Keefe in black ink.

GERALD B. O'KEEFE  
*Administrative Assistant to the  
Secretary of the Army*

1406601

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