



DEPARTMENT OF THE NAVY

BUREAU OF MEDICINE AND SURGERY
2300 E STREET NW
WASHINGTON DC 20372-5300

IN REPLY REFER TO:

BUMEDINST 4081.1
BUMED-M4B2
17 Aug 2009

BUMED INSTRUCTION 4081.1

From: Chief, Bureau of Medicine and Surgery

Subj: RETURN OF PATIENT MOVEMENT ITEMS TO THEATRE AND USE OF
PATIENT MOVEMENT ITEM TRACKING SYSTEM

Ref: (a) DODD 6000.12 of 29 Apr 1996
(b) DODI 6000.11 of 9 Sep 1998
(c) Joint Pub 4-02, Appendix A of 31 Oct 2006
(d) NTTP 4-02.1, Chapter 2 of Mar 2007
(e) NTTP 4-02.1, Appendix A of Mar 2007
(f) AFI 41-209, Chapter 8 and Attachment 32
(g) AFMAN 41-216, Chapter 8

Encl: (1) Bar Coding Methodology and Codes

1. Purpose

a. To implement a Patient Movement Item (PMI) return program in Navy Medical Treatment Facilities (MTFs) to ensure PMI received is returned to the closest Air Force (AF) Patient Movement Item Center within 30 days of receipt.

b. To deploy the electronic PMI Tracking System (PMITS) to designated sites. References (a) through (g) provide amplifying information.

2. Background. PMIs are air worthiness certified medical equipment and supplies required to support a patient during evacuation from theater. Once stabilized patients have transitioned to the MTF, it is important that all PMI accompanying the patient from theater be returned for reuse. Prompt return of PMI is critical to preventing an equipment shortage, which can adversely affect subsequent patient outcomes and delay transportation.

3. Scope. All Navy Medicine Regions and subordinate MTFs will comply with this instruction. Implementation of this PMI program will be in coordination with the Navy Medical Logistics Command (NMLC).

4. Policy. All Navy Medicine Regional Commanders will establish procedures to maintain control of all PMIs entering their MTFs that detail the responsibilities of the MTF with the goal of returning PMIs to one of the designated PMI Centers within 30 days of receipt. Navy Medicine Regional Commanders will:

- a. Ensure subordinate MTFs appoint a PMI point of contact (POC) who is responsible for the PMI return program.
- b. Facilitate PMI Standard Operating Procedure (SOP) development at their subordinate MTFs with the goal of returning PMIs to one of the designated PMI Centers within 30 days of receipt, and ensuring each SOP fulfills the requirements listed herein and in all references.
- c. Convene an annual Regional audit of receipts and returns to ensure compliance and make recommendations on system improvements. Results of the audit shall be forwarded to Bureau of Medicine and Surgery (BUMED) M42, via Navy Medicine Support Command, and NMLC.
- d. Regional Commanders may be requested to liaison with Department of Defense – Department of Veterans Affairs (DoD-VA), and National Disaster Medical System (NDMS) facilities in their respective areas in order to facilitate return of PMIs.

5. PMI Tracking System (PMITS) / Plexus-D. An automated information system, Plexus-D, has been developed to improve management of PMIs and provide greater in-transit visibility. PMITS consists of a laptop computer terminal, a scanner, and a printer that produces bar code labels to identify the PMI. PMITS uses a special printer that is maintained only at designated PMI Centers. This system keeps track of PMI by collecting scans and sharing this data with other PMITS users with the Plexus-D software. The Plexus-D software automatically updates and shares this information on a secure Web portal. PMITS only maintains the current status of each item, no historical tracking functions are provided.

- a. Bar Code Labels. Bar Code Labels are controlled by the AF PMI Centers to maintain the integrity of the database. Use enclosure (1), Bar Coding Methodology and Codes and the NAVMED 4081/1 (12-2007), Bar Code Request Form to request a new label or to replace one that is damaged or unserviceable. Further information describing bar codes and terminology is described at <https://private.amc.af.mil/sg/sgxl/sgslpmi.html>. A DoD issued PKI certificate is required.

- b. Installation and Training. Each Region/MTF will coordinate with the NMLC Business Systems Solution Office (Code 06), commercial telephone (301) 619-2084 to schedule installation and training. The installation and training takes approximately three hours. Defense Medical Logistics Standard Support (DMLSS) is funded to provide all software, hardware, and installation of this program.

(1) The MTFs listed below have been selected to receive a PMITS terminal. Usage of this program is required at these sites. No additional manpower is required to operate the system.

(a) CONUS

1. National Naval Medical Center Bethesda
2. Naval Medical Center San Diego
3. Naval Medical Center Portsmouth
4. Naval Hospital Camp Lejuene
5. Naval Hospital Camp Pendleton

(b) OCONUS

1. U.S. Naval Hospital Okinawa
2. U.S. Naval Hospital Guam
3. U.S. Naval Hospital Yokosuka
4. U.S. Naval Hospital Rota
5. U.S. Naval Hospital Naples

(2) MTFs that have not been selected to receive a PMITS terminal are required to develop a manual tracking method to ensure prompt return of PMI. Procedures for this must be detailed in the MTFs SOP.

6. Return of PMI. Each Navy Medicine Region/MTF Logistics Department is responsible for and will coordinate the return of PMIs to the nearest PMI Center, listed in paragraph 6b below. Transportation will be by the most economical means feasible, while minimizing time constraints in the return of PMI. In some cases this may involve air transport. Alternately, commands may arrange for local transportation, as desired. Designated accounting codes will be used to fund the return of all PMIs. MTFs will clean and disinfect PMI before forwarding to the selected PMI center, or transportation point. The below listed PMI centers (located on AF Bases) will receive, refurbish (to include, but not limited to technical inspection, calibration, repair, and provision expendable supplies), and redistribute PMIs to theatre.

a. Funding Data for PMI Shipments. Use the Region Transportation Accounting Code (TAC) for the major Medical Center in your respective region as listed below. Both civilian and military air are authorized.

(1) Navy Medicine West: Naval Medical Center San Diego – TAC N03D

(2) Navy Medicine National Capital Area: National Naval Medical Center Bethesda – TAC N13D

(3) Navy Medicine East: Naval Medical Center Portsmouth – TAC N98D

b. AF Designated PMI Locations:

(1) 89th Medical Group/SGSL PMI Center
ATTN: PMI Center Manager
3244 Tennessee Ave
Andrews Air Force Base, MD 20762-5184
Telephone: DSN 857-7956

(2) 375th Medical Group/SGSL PMI Center
ATTN: Ms. Iva Merritt/Mr. Darryl Moore
120 South Adams Street, Bldg 4020
Scott AFB, IL 62225-5300
Telephone: DSN 576-1173

(3) 60th Medical Support Squadron/SGSL PMI Center
ATTN: PMI Center Manager
101 Bodin Circle, Bldg 795
Travis AFB, CA 94535-1800
Telephone: DSN 799-3026

(4) 435th Medical Group/SGSL PMI Center Ramstein
ATTN: TSgt Michael Scott
Unit 3215
APO AE 09094-3215
Telephone: DSN 314-479-2437

(5) Air Force Medical Support Agency (AFMSA/SGSLW)
ATTN: Mr. Steve Messer/Mr. Stephen Winn
Mark For: Patient Movement Items (PMI) Recycling
601 Davy Crockett Drive, Bldg 1534
Kelly USA, TX 78226-1885
Telephone: DSN 945-6061

(6) 374th Medical Support Squadron/SGSL, PMI Center Yokota
ATTN: PMI Center Manager
Building 4145, Unit 5225
APO AP 96328-5225
Telephone: DSN 315-225-4932

7. The official, air-worthiness certified PMI is listed below:

NSN	ITEM
6530-01-431-5146	Ventilator, Portable (Impact 754)
6515-01-452-0625 6515-01-486-4310	IV Controller (IVAC MS III)
6615-01-435-0050	Suction Machine (CISU)
6515-01-516-1519	Defibrillator Zoll CCT
6515-01-440-9394	Oxygen Analyzer (Miniox 3000)
6515-01-432-2707 6515-01-432-2711	Vital Signs Monitor (Propaq 206EL)
6515-01-446-6766 6515-01-453-2174	Pulse Oximeter (BCI 3303)
6530-00-783-7905 6530-01-380-7309	Litter, NATO, Standard
6530-00-137-3016	Litter, mattress pads
6530-00-784-4205	Litter Straps
7210-00-139-5779 7210-00-715-7985	Blanket, Cotton (or Wool)
6530-00-792-6000	IV Poles
6530-00-788-4010	Restraint Set
6530-01-498-1889	Orthopedic Turning Frame, Stryker Model 965MO
6530-01-119-0012	Spinal Board (Long)

The following items are tracked and recycled as part of this program, but are not listed in the DoD approved PMI program. These items have received the required air-worthiness certification and will be handled in accordance with all requirements of this instruction. There are no additional/special requirements for these items.

- a. Ambit PCA Pump
- b. KCI Wound Vacuum Pump
- c. LTV 1000 Vent

8. Form. The NAVMED 4081/1 (12-2007), Bar Code Request Form is available at: <http://navymedicine.med.navy.mil> at the Forms tab; local reproduction is authorized.

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Distribution:
(See next page.)

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Distribution:
SNDL FH
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FH36

Distribution is electronic only via the navy medicine Web site at
<http://navymedicine.med.navy.mil/default.cfm?seltab=directives>

Bar Coding Methodology and Codes

(Check for latest version at: <https://private.amc.af.mil/sg/sgxl/sgslpmi.html>)

PMIs will be identified and tracked in the PMI Tracking System (PMITS) using bar code technology. The software system behind PMITS is called Plexus-D. Each bar code has 14 positions to identify the type and model of an item and its serial number creating a unique bar code to specify a particular piece of equipment. Of the positions, the first three (1 through 3) are alpha characters and identify the type of equipment item (examples listed below).

Equipment Item Codes

DEF	Defibrillator	STR	Stryker frame
IVC	IV controller	SXN	Suction apparatus
MON	Vital signs monitor	OAN	Oxygen analyzer
POX	Pulse oximeter	VEN	Ventilator

The fourth (4th) position is an alpha character identifying a specific manufacturer/model for that type. The fourth position for each equipment item will have an alpha character to specify the manufacturer and model. This means that each type of equipment (i.e., DEF or VEN) can have up to 26 combinations of manufacturer and models in the PMI program. For example, an oxygen analyzer manufactured by MSA such as Miniox 3000 would be "OANA," while the same manufacturer's older model, the Miniox III that is still in use, would be an "OANB." The codes for an OAN will not be the same for an MON or VEN. The Army Medical Command/Surgeon General (AMC/SG) maintains the list and ensures coordination with the PMI Centers. The fifth through fourteenth positions (5 through 14) will be the last ten characters (numbers or alpha) of the item's serial number, prefixed with zeros if necessary. By standardizing this format it will create a unique traceable bar code for all equipment assets in the PMITS system that any future customer can utilize.

NOTE:

Some older bar codes exist using the five digit equipment control number (ECN). Those will continue to work and will eventually be changed. To support our maintenance records you must insert ECN numbers into the PMITS database with their recertification dates.

Example of NEW PMITS BAR CODE:



PMI Centers and all “owning” activities have a three digit number assigned. Users that are part of PMITS must insert their ownership codes into the database when they are scanning equipment to help differentiate between “War Reserve Material (WRM)” and “Unit Ownership.”

NOTE:

For clarification: **NO ONE OWNS PMI ASSETS, THEY BELONG TO THE PMI PROGRAM.** AMC/SG maintains the listing of ownership numbers; requests for changes should be sent to hqamcpmi@scott.af.mil.

Of the 16 items formally in the PMI program, eight will be tracked as “Quantity Assets” and will be counted as lot quantities versus by individual serial number. These items (litters, blankets, litter pads, etc.) will be tracked at PMI centers/cells using the Quantity Asset selection in the Scan Tab of PMITS. These items, tracked by quantity, will be entered into DMLSS as a customer owned assembly, according to reference (g).

As the inventory for “PMI Like” bar coded items increases, there will be extra equipment types to be established. These represent the supplementary items supporting patient movement that are to be tracked. Examples are:

BSS	Battery support system
CMP	Air compressor
CSS	Critical care platform system (also called SMEED)
ECS	Electrical cable assembly set (ECAS)
FRQ	Frequency converter
INC	Infant incubator
MOS	Mobile oxygen storage tank (MOST 20-2B)
PCA	Patient controlled analgesia pump
SXN	Suction apparatus (KCI freedom wound vacuum pump)
VEN	Ventilator (Pulmonetics LTV-1000)

Remainder of page intentionally left blank.

Below are all of the codes in effect as of the date of this instruction; they are listed in alphabetical order by equipment type code. The **bolded** items are the primary equipment assets in the PMI program.

Battery Support System

BSS

Manufacturer/Model Number Code:

C	Zoll Single Unit Charger (shielded)	
Y	Zoll Single Unit Charger	6515-01-518-6016
Z	Zoll 4 Bay Charger/Conditioner	6515-01-505-3437

Car Seat, Child

CAR

Manufacturer/Model Number Code:

A Cosco or Fisher-Price

Air Compressor

CMP

Manufacturer/Model Number Code:

A Timeter/Allied Health, AirDyne 3500

Remainder of page intentionally left blank.

Computer, PMI Center or WRM

CMT

Manufacturer/Model Number Code:

- E Laptop Computer, Toshiba
- G Laptop, Dell Inspiron 6000
- H Laptop, Dell Inspiron 1300
- I Laptop, Dell Inspiron 640m

Critical Care Platform System (also called SMEED)

CSS

Manufacturer/Model Number Code:

- P SMEED – Critical Care Platform 6530-01-500-1989

Defibrillator/Monitor

DEF

Manufacturer/Model Number Code:

- A Physio-Control Lifepak 10-59 without case 6515-01-439-6694
- Z Zoll CCT Defibrillator/Monitor, Biphasic 6515-01-516-1519**

Electrical Cable Assembly Set (ECAS)

ECS

Manufacturer/Model Number Code:

- A Technical Services Laboratory 6150-01-222-1725
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Expeditionary Deployable Oxygen Concentration System (EDOCS)

EDO

Manufacturer/Model Number Code:

X	EDOCS, 120B, PCI Industries	6515-01-529-4850
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Frequency Converter

FRQ

Manufacturer/Model Number Code:

B	Avionics Inc, 4B3500-1AA-MV-735	6130-01-433-3718
C	Avionics Inc, Modified for KC-135 use ("Vapor")	6130-NCM-040691

Headsets

HED

Manufacturer/Model Number Code:

A	Headset, IME Shop (86 AES)
B	Headset Case, IME Shop (86 AES)

In-Flight Kit (AS 887A)

IFK

Manufacturer/Model Number Code:

A	Main Drug Supply	6515-01-473-8678
C	ACLS Drug Supply	6515-01-477-6078
D	Airway Support Bag # 1	6515-01-477-6128
E	Airway Support Bag # 2	6515-01-477-6128
F	IV Supply Bag # 1	6515-01-477-6124

In-Flight Kit (AS 887A) (Continued)

IFK

G	IV Supply Bag # 2	6515-01-477-6124
H	Bulk Supply Bag # 1	6515-01-477-6146
I	Bulk Supply Bag # 2	6515-01-477-6146
J	Patient Comfort Roll Pack # 1	6515-01-477-6134
K	Patient Comfort Roll Pack # 2	6515-01-477-6134
L	Dressing Roll Pack # 1	6515-01-477-6141
M	Dressing Roll Pack # 2	6515-01-477-6141
N	Ventilator Support Bag	6515-01-477-6165

Incubator

INC

Manufacturer/Model Number Code:

A	International Biomed, ALSS, Model 185	6530-01-131-1396
B	International Biomed, ALSS, Model 185A	

IV Controller

IVC

Manufacturer/Model Number Code:

A	IVAC/Alaris MedSystem III (Model 2863/2863B)	6515-01-452-0625
D	IVAC/Alaris MedSystem III (Model 2865/2865B)	6515-01-486-4310

Flight Support Kits

KIT

Manufacturer/Model Number Code:

B C-21 Flight Support Kit

G C-21 IV Pole (86 AES)

Laboratory Analyzer

LAB

Manufacturer/Model Number Code:

A i-STAT, Portable Clinical Analyzer

6630-01-411-2405

Liquid Oxygen Converter, Portable

LOX

TO BE DELETED WHEN MOST IS IMPLEMENTED

Manufacturer/Model Number Code:

A **Essex Cryogenics CR U-8 7/U (PTLOX)**

3655-01-222-9494

Mannequin, Training

MAN

Manufacturer/Model Number Code:

L AMC/SG Mannequin, Laerdal

Vital Signs Monitor

MON

Manufacturer/Model Number Code:

A	Protocol Propaq 206EL - Encore	6515-01-432-2707
B	Protocol Propaq 106EL	6515-01-423-5872
C	Protocol Propaq 206EL - Encore with CO2 Capnography	6515-01-432-2711
D	Protocol Propaq 206EL - Encore with printer	
E	Protocol Propaq 206EL without expansion module	

Mobile Oxygen Storage Tank

MOS

Manufacturer/Model Number Code:

T	MOST-2B	6530-01-511-2702
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Oxygen Analyzer

OAN

Manufacturer/Model Number Code:

A	Mine Safety Appliances (MSA) MiniOX 3000	6515-01-440-9394
B	Mine Safety Appliances (MSA) MiniOx III	6515-01-314-6721

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Oxygen Blender

OXB

Manufacturer/Model Number Code:

A Bird Air-Oxygen Blender (P/N 3500A)

B Bird Air-Oxygen Blender (P/N 3800A)

Patient Controlled Analgesia Pump

PCA

Manufacturer/Model Number Code:

A AmbIT, Ambulatory Infusion Therapy Device 6515-01-534-3623

Phone Equipment

PHO

Manufacturer/Model Number Code:

A IME Shop Phones (86 AES)

B IME Shop Phone Chargers (86 AES)

Pulse Oximeter

POX

Manufacturer/Model Number Code:

A Nonin 8600 or 8600-USAF 6515-01-386-2978

B BCI International 3303 6515-01-453-2174

C BCI International 3304 6515-01-454-3269

Printers

PRT

Manufacturer/Model Number Code:

- A Printer Okidata 810e
- B Datamax Thermal Printer, Allegro 2
- C Datamax E-Class 4203
- D Hewlett-Packard LaserJet 1020
- E Hewlett-Packard LaserJet 1012
- F Hewlett-Packard Deskjet 5740

Publications Kit

PUB

Manufacturer/Model Number Code:

- A Publications Kit
- B MCD Forms Kit

Sequential Compression Device

SCD

Manufacturer/Model Number Code:

- B Battery Pack, Extremity Sequential Compression Pump 6530-01-542-2077
- C Battery Charger, Extremity Sequential Compression Pump 6530-01-542-2100
- P Pump, Extremity Sequential Compression 6530-01-542-1947

Stryker Frame

STR

Manufacturer/Model Number Code:

K Stryker Spinal Turning Frame, Model 965MO 6530-01-498-1889

Suction Apparatus

SXN

Manufacturer/Model Number Code:

A Continuous/Intermittent, Impact 326M 6515-01-435-0050

D Impact 325M 6515-01-435-5350

E KCI Freedom Wound VAC Pump

Ventilator

VEN

Manufacturer/Model Number Code:

A Impact 754M (Eagle) 6530-01-455-1653

C Impact 750 (Univent) 6530-01-292-1049

D Bio-Med Devices MVP-10 Neonatal/Pediatric

E Pulmonetics LTV 1000
