



Modernization of the Air Expeditionary Squadron AMAL 0960

*Martin Hill
James Zouris
Gerry Pang
Vern Wing*



Naval Health Research Center

Document No. 12-7G

The views expressed in this article are those of the authors and do not necessarily reflect the official policy or position of the Department of the Navy, Department of Defense, nor the U.S. Government. Approved for public release; distribution is unlimited

This research was conducted in compliance with all applicable federal regulations governing the protection of human subjects in research.

*Naval Health Research Center
140 Sylvester Rd.
San Diego, California 92106-3521*

Modernization of the Air Expeditionary Squadron

AMAL 0960



Martin Hill
James Zouris
Gerry Pang
Vern Wing

Naval Health Research Center
140 Sylvester Rd.
San Diego, CA 92106-3521



Report No. 12-7G, supported by the Commander, Naval Air Forces, under Work Unit No N1213. The views expressed in this article are those of the authors and do not reflect the official policy or position of the Navy, Department of Defense, or the U.S. Government. Crr tqxgf 'hqt'r vdrle'tgrcug=f kntkdwkqp'ku'wpko kgf 0

Summary

The objective of this study was to examine the adequacy of the current U.S. Navy's Air Expeditionary Squadron (AES) Authorized Medical Allowance List (AMAL) 00. Commander, Naval Air Forces (CNAF) asked Naval Health Research Center (NHRC) for research assistance in determining AMAL 0960 adequacy in meeting the medical needs of current AES operations, and to compare its medical capabilities with a CNAF proposed AMAL revision with the goal of establishing an optimal AMAL configuration that meets medical care needs for the anticipated workload while minimizing the AMAL's cost, weight, and cube.

NHRC statisticians collected data on patient presentations seen by AES medical personnel on 20 squadron deployments in support of Operation Enduring Freedom, Operation Iraqi Freedom, and other military operations. This information was used to develop a patient condition occurrence frequency (PCOF) table for 336 *International Classification of Diseases*, 9th Revision codes. Computer simulation models were built for three versions of AMAL 0960: (a) the original AMAL currently deployed with squadrons, (b) a proposed version modified by CNAF flight surgeons, and (c) one developed by NHRC. The models and the PCOF table were used in NHRC's medical resources modeling process and the output reviewed by an NHRC analyst.

Three AMAL line lists were produced as a result of this study: two showing differences in line-item quantities in the current AMAL 0960 and the CNAF-modified AMAL 0960, and the amounts suggested by NHRC's modeling; and a third optimized line list produced by NHRC with both full package quantities and partial package quantities. The first two showed little change in weight, cube, or cost. However, the modeling showed neither AMAL version was capable of treating the full spectrum of possible patient conditions the AES flight surgeons might encounter.

The NHRC optimized line list, which contained 23 additional items than the current AMAL 0960, is capable of treating the full spectrum of possible patient conditions with a moderate increase in weight, cube, and cost. If only partial packages are used, however, the increase in weight, cube, and cost is closer in line with the current AMAL, yet can still treat the whole range of possible patients.

Contents

Methodology	1
Findings	10
Conclusions	11
Appendix A Comparison of Current AMAL 0960 to MCF Output	A-1
Appendix B Comparison of CNAF Modified AMAL 0960 to MCF Output	B-1
Appendix C NHRC’s Recommended Line List (Full & Partial UI)	C-1

Background

Current and future naval air power concepts of operation call for the forward deployment of disassociated EA6B or FA18 (Prowler/Growler) electronic warfare squadrons and P3 Orion maritime patrol detachments to remote operating bases in support of NATO and other operations. In recent years, these units have deployed to Afghanistan, Bahrain, Iraq, Kuwait, Qatar, the Philippines, and Saudi Arabia.

Responsibility for routine medical care rests with the squadron and is supported by authorized medical allowance list (AMAL) 0960, with health care provided by a flight surgeon and two non-independent duty aerospace medical technicians. The AMAL is designed to provide a Role I level of care (emergency flight line care and sick call) for 90 days without resupply, and must have advanced medical support and base operating support from other nearby airfield units. Depending on the type of squadron, the population at risk (PAR) is between 100 and 200 naval personnel, with 50 personnel on flight orders. Pain control is limited to oral or injectable non-steroidal anti-inflammatory drugs.

AMAL 0960 was developed 7 years ago. A proposed upgrade was developed by naval flight surgeons and submitted to Commander, Naval Air Forces (CNAF) for type commander review and approval. In 2011, CNAF asked Naval Health Research Center (NHRC) for research assistance in determining AMAL 0960's adequacy in meeting the medical needs of current air expeditionary squadron (AES) operations, and to compare its medical capabilities with the proposed AMAL revision with the goal of establishing an optimal AMAL configuration that meets medical care needs for the anticipated workload while minimizing cost, weight, and cube of the AMAL.

Methodology

The NHRC medical resources modeling system involves several steps. NHRC creates a patient stream based on an appropriate PAR and historic casualty rates. NHRC uses several casualty estimation programs to develop injury and illness frequency distributions, including the Patient Condition Occurrence Frequency (PCOF) tool and the Ground Forces Casualty Projection System (FORECAS). The resulting patient stream can be a mix of combat injuries (including multiple traumas) and/or an array of disease and nonbattle injuries with their associated *International Classification of Diseases*, 9th Revision (ICD-9) code. The statistical results are augmented by subject matter expert inputs and verified by subject matter expert review.

The patient stream is then input into the Expeditionary Medical Knowledge Warehouse (EMedKW) database to support the modeling and simulation effort. EMedKW contains the Estimating Supplies Program (ESP), the Tactical Medical Logistics Planning Tool (TML+), the Medical Contingency File (MCF), the ReSupply Validation Program (RSVP), and the data structures and content necessary to support these models. EMedKW is a service-oriented architecture system designed to protect and organize medical data. The system provides medical analysts with the ability to estimate the requirements to treat a particular patient distribution, while it also tracks inventory to monitor mission readiness.

Within EMedKW, the clinical tasks required to treat each patient condition (i.e., ICD-9) are identified and matched with the required equipment and consumable items. In the analysis phase,

NHRC analysts review the process output, making revisions as needed until an appropriate line list has been developed for the customer’s review.

The following example illustrates the programmatic modeling internal to EMedKW (Figure 1). The ICD-9 code 800.00 is selected within a service branch medical treatment facility (MTF) and functional area. In the example it is a Marine Corps medical echelon forward resuscitative care MTF, and the functional area is “Triage/Pre-op.” Next, numerous clinical tasks are associated with this treatment, including, for example, “Insert Endotrach Tube.” Equipment and consumable items required to perform this task are then identified.

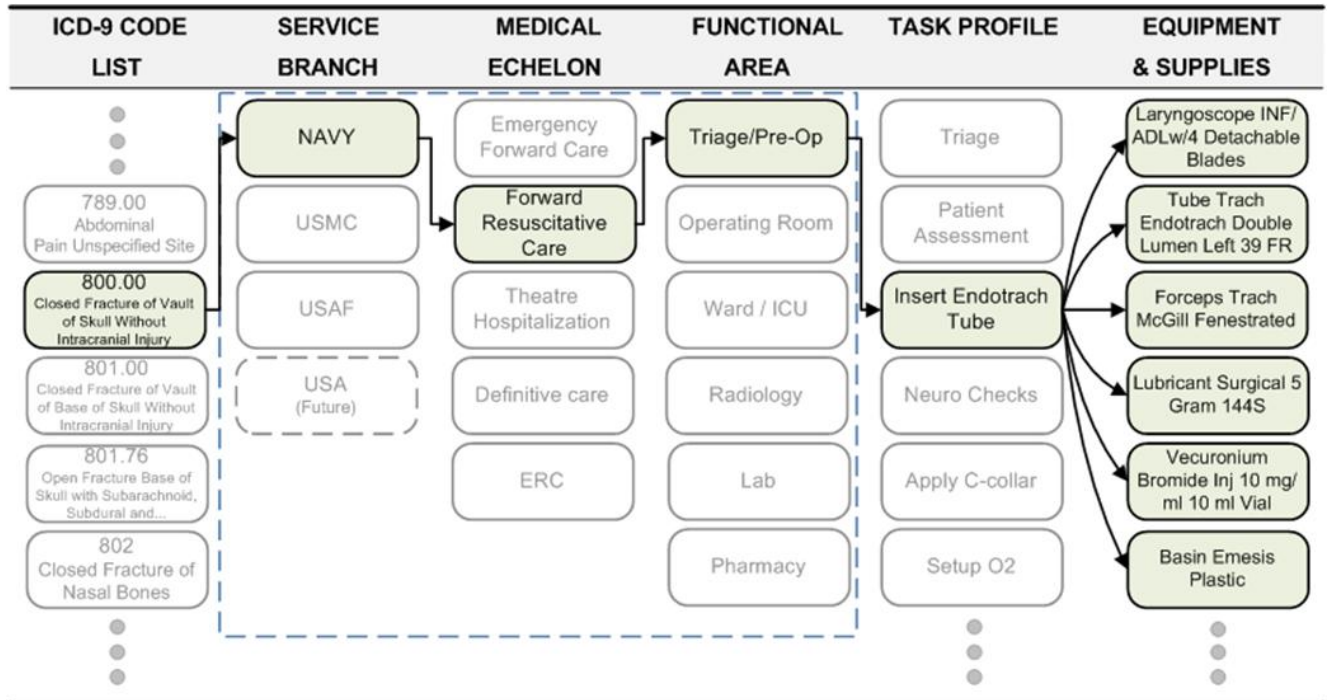


Figure 1. An example of the EMedKW programmatic modeling process.

To begin this study, NHRC conducted a review of the literature and written guidance of official naval air force policy, doctrine, and concepts of operation pertaining to the deployment of electronic warfare squadrons and maritime patrol detachments, as well as medical lessons learned from those deployments. Operational requirements documents for AMAL 0960 were also reviewed (*Approved for Establishment of the Air Expeditionary Squadron Authorized Minimal Medical Allowance List*, 2004; Lee, Brooks, Ostrander, & White, 2005; Mattson, 2011; *U.S. Naval Flight Surgeon's Manual, 3rd Edition*, 1991). PAR data for Prowler/Growler squadrons and P-3 Orion patrol detachments were provided by CNAF flight surgeons, as were Unit Identification Codes (UIC) for Prowler/Growler and P3 squadrons.

Using squadron UICs, pertinent expeditionary air squadron patient encounter data was drawn from the Joint Theater Trauma Registry, the Theater Medical Data Store, the Armed Forces Health Longitudinal Technology Application, and the Global Expeditionary Medical System databases, and analyzed by NHRC statisticians for occurrence frequency of illness and injury ICD-9s. All data used in support of this study was de-identified to ensure privacy.

The UICs produced a database of 2,919 AES patient presentations over 20 separate unit deployments to Afghanistan, Bahrain, Iraq, Kuwait, Qatar, the Philippines, and Saudi Arabia

between 2004 and late 2011.¹ All patient presentations were either disease or nonbattle injuries. Figure 2 shows a breakdown of AES patient presentations by ICD-9 subgroups.

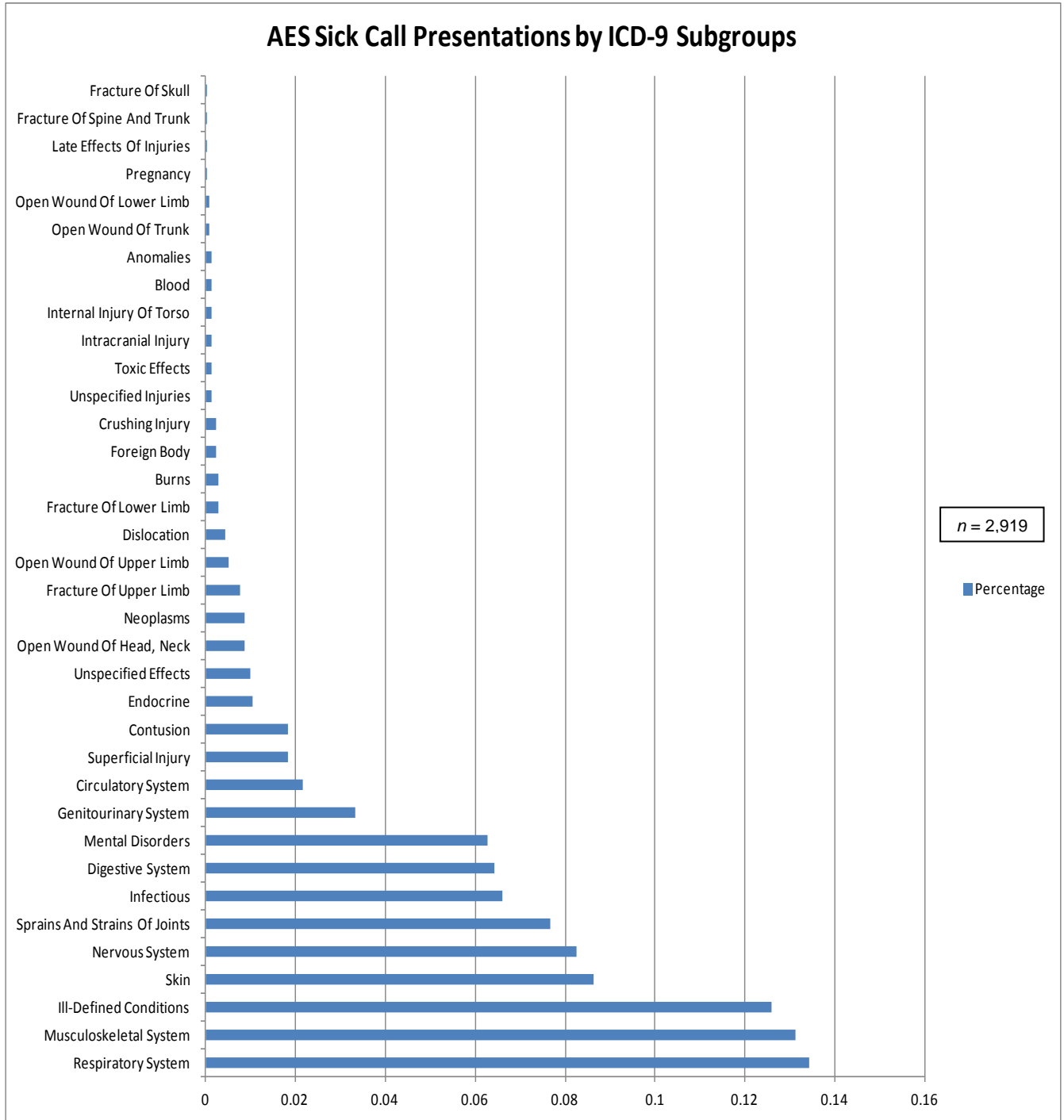


Figure 2. AES patient presentations by ICD-9 subgroups.

¹ Initially, electronic reporting of AES patient care was incomplete. By 2006, however, such reporting became much more reliable.

Using this patient information, NHRC statisticians determined the average number of patients seen each week by AES flight surgeons was equal to 2.5% of the total PAR or about 10% of the PAR per month. For this study, NHRC decided to use the largest possible PAR for AES squadrons (200) over a 90-day period, resulting in 20 patient presentations per month or 60 presentations for the entire three-month period.² NHRC statisticians also used this patient data to develop an AES-specific patient condition occurrence frequency (PCOF) table of ICD-9-based patient condition probabilities. NHRC medical analysts imported these probabilities into a Poisson distribution tool developed by NHRC. The Poisson tool uses the PCOF probabilities to create a patient stream. Each patient stream it creates is slightly different from the last, based on the probability of each ICD-9 to occur. Each patient stream, or “iteration,” is then ranked ordered from lowest to highest. Typically, the 75th, 80th, or 85th ordered rank, or percentile, is chosen as a base patient stream.

For this study, using the Poisson tool resulted in a base patient stream with a total of 83 patients, 23 more than the estimated monthly average. Table 1 shows the patient stream.

Table 1.

Patient Stream Used in AES AMAL Study

ICD-9	ICD-9 description	Cases	ICD-9	ICD-9 description	Cases
008.8	Intestinal infection due to other organism not classified	1	682.9	Cellulitis and abscess of unspecified parts	2
078.1	Viral warts	1	719.41	Pain in joint shoulder	3
079.99	Unspecified viral infection	1	719.46	pain in joint lower leg	3
274	Gout	1	719.47	Pain in joint ankle/foot	1
276	Disorder of fluid, electrolyte + acid base balance	1	724.2	Lumbago	2
309.0	Adjustment disorder with depressed mood	2	724.5	Backache unspecified	2
309.81	Posttraumatic stress disorder	1	726.10	Disorders of bursae and tendons in shoulder unspecified	1
309.9	Unspecified adjustment reaction	1	726.3	Enthesopathy of elbow region	1
361	Retinal detachment	1	726.6	Enthesopathy of knee	1
365	Glaucoma	1	726.7	Enthesopathy of ankle and tarsus	1
370.0	Corneal ulcer	2	729.5	Pain in limb	1
380.1	Infective otitis external	2	780.2	Syncope	1
380.4	Impacted cerumen	2	780.5	Sleep disturbances	3
384.2	Perforated tympanic membrane	1	782.1	Rash and other nonspecific skin eruptions	3

² Historically, the planning factor for disease and nonbattle injury has been 4% of the PAR. In recent years, however, that figure has dropped.

ICD-9	ICD-9 description	Cases	ICD-9	ICD-9 description	Cases
401	Essential hypertension	1	782.3	Edema	1
427.9	Cardiac dysrhythmia unspecified	1	784.0	Headache	1
462	Acute pharyngitis	4	784.7	Epistaxis	1
465	Acute URI of multiple or unspecified sites	4	786.5	Chest pain	2
466	Acute bronchitis & bronchiolitis	1	787.0	Nausea and vomiting	2
486	Pneumonia, organism unspecified	1	787.91	Diarrhea not otherwise specified	2
530.81	Gastroesophageal reflux	1	789.00	Abdominal pain unspecified site	1
550.9	Unilateral inguinal hernia	1	843	Sprains and strains of hip and thigh	1
564.0	Constipation	1	844.9	Sprain, knee	1
592	Calculus of kidney	1	845	Sprain of ankle	2
599.0	Unspecified urinary tract infection	1	846	Sprains and strains of sacroiliac region	1
611.7	Breast lump	1	847.2	Sprain lumbar region	1
681	Cellulitis and abscess of finger and toe	2	873.4	Open wound of face without mention of complication	1
682.6	Cellulitis and abscess of leg except foot	1	883.0	Open wound of fingers without complication	1
682.9	Cellulitis and abscess of unspecified parts	2	918.1	Superficial injury cornea	1

NHRC's EMedKW database contains a list of all clinical tasks performed at Role 1 treatment facilities. Not all Role 1 MTFs perform all of these tasks, but rather some subset of the overall list depending on their mission requirements. CNAF flight surgeons were asked to identify which clinical tasks they wanted the AES AMAL to be capable of performing. This resulted in a list of 48 clinical tasks the flight surgeons considered necessary for performance of the AES medical mission.

Construction of the models representing the current and modified AES AMALs revealed that neither version could perform all the required tasks. The current version of the AMAL (0960-current) did not have equipment or consumables to complete 23 of the identified tasks. The modified version (0960-modified) lacked the resources to complete 19 tasks. Using the currently deployed AMAL 0960 as its foundation, NHRC then developed an AMAL line list containing all the supplies and equipment necessary to complete all 48 tasks identified by the flight surgeons. Table 2 identifies which tasks each AMAL version can and cannot perform.

Table 2.

Identified Clinical Tasks Capable of Being Performed With Three Versions of AMAL 0960

Task no.	Task description	0960 current	0960 modified	0960 NHRC
001	Triage	Yes	Yes	Yes
002	Assessment And Evaluation Of Patient Status	Yes	Yes	Yes
005	Remove And Collect Belongings, Valuables And Equipment	Yes	Yes	Yes
006	Establish Adequate Airway (Oro/Naso Pharyngeal Only)	No	Yes	Yes
007	Emergency Cricothyroidotomy	No	No	Yes
010	Neurological Assessment	Yes	Yes	Yes
011	Stabilize Spine (Collar/Spine Board)	No	Yes	Yes
019	Emergency Control Of Hemorrhage	No	No	Yes
024	Vital Signs	Yes	Yes	Yes
049	Start/Change Iv Infusion Site	Yes	No	Yes
050	Administer Iv Fluid	Yes	No	Yes
070	Bowel Sounds Assess	Yes	Yes	Yes
079	Catheterization Foley	No	No	Yes
082	Measure/Record Intake/Output	No	No	Yes
085	Wound Irrigation	Yes	Yes	Yes
086	Clean And Dress Wound	Yes	Yes	Yes
090	Compresses (Soaks)	No	No	Yes
091	Apply Ice/Hot Packs	Yes	Yes	Yes
093	Extremity Elevation	Yes	Yes	Yes
096	Apply Sling/Swath	No	No	Yes
098	Apply Splint/Immobilize Injury	No	Yes	Yes
103	Circulation Check	Yes	Yes	Yes
108	Minor Surgical Procedure (Debride/Suture/Incision)	No	No	Yes
121	Eye Irrigation	Yes	Yes	Yes
123	Eye Care (Dressings/Eye Patch)	No	No	Yes
124	Ear Care Irrigation	Yes	Yes	Yes
125	Sponge/Hyperthermia Treatment	No	No	Yes

Task no.	Task description	0960 current	0960 modified	0960 NHRC
125	Sponge/Hyperthermia Treatment	No	No	Yes
126	Seizure Care/Precautions	No	No	Yes
127	Patient Restraint (Gauze, Ties)	No	No	Yes
142	Order And Document Appropriate Meds/Treatment	Yes	Yes	Yes
145	Administer Appropriate Medication	Yes	Yes	Yes
204	Assign Patient Safety Special Watch	Yes	Yes	Yes
247	Place Respiratory Isolation Mask	No	No	Yes
278	Arrange For Patient Evacuation	Yes	Yes	Yes
279	Arrange And Document Return To Duty	Yes	Yes	Yes
359	Induce Local Anesthesia	No	Yes	Yes
639	Pregnancy Determination	Yes	Yes	Yes
748	Assemble Material/Clean Up	No	Yes	Yes
A12	Occlude Sucking Chest Wound	No	No	Yes
A2	Remove Casualty From Danger	Yes	Yes	Yes
A6	Apply Tourniquet	No	Yes	Yes
Z014	Intubation	No	No	Yes
Z027	Cardio Arrest Resuscitation	Yes	Yes	Yes
Z039	Perform Ventilation With Bag Valve Mask	No	No	Yes
ZZ02	Stain & Examine Eyes (Fluorescein/UV Lamp)	Yes	Yes	Yes
ZZ03	Needle Thoracostomy	No	No	Yes
ZZ27	General Treatment Area Setup	Yes	Yes	Yes

Twenty-three items had to be added to the current AMAL 0960 line list so all of these identified tasks could be accomplished. Table 3 identifies these items and their uses. To maintain Navy standardization, the added items were selected either from the CNAF modified AES AMAL or another Navy AMAL.

Table 3.

Supply Items Added to the Current AMAL 0960

NSN	Nomenclature	Use(s)
6510009268884	Adhesive Tape Surgical Porous Woven 3 Inches By 10 Yards 4s	Bandaging
6515015188593	Airway Set Oral Berman Dual Channel 6 Sizes	Manage airway

NSN	Nomenclature	Use(s)
6510001055807	Bandage Elastic Coban Flesh 3in X 5yd 24s	Bandaging
6510015032117	Bandage Gauze Fluff 4.5in X 4.1yds 1s	Bandaging, splinting, hemorrhage control
6510015623325	Bandage Gauze Impregnated 3"X4yd Kaolin Hemostatic Quik Clot	Hemorrhage control
6510002011755	Bandage Muslin Compress Olive 37x37x52in	Apply sling
6515001490104	Cath Kit Urethral 16fr	Urethral catheterization
6515014618933	Glove Patient Exam 9.5in N-Dex Nitr Med 100s	Standard health precautions
5276265212	Hand Sanitizer (1 Dz Pump 8 Oz Pump Bottles)	Hand sanitation
6505014554200	Lidocaine And Epinephrine Injection USP 1:100,000 20 MI Vial	Local anesthesia
6530014325114	Litter Evacuation Talon Ii Portable Compact Lightweight	Patient exam, transport
6515015371531	Mask Respirator Anti-Microbial Adult	Patient respiratory isolation
6510007755706	Pad Abdomen 7.5x8in 3layers Ster Seal Pg 240s	Hemorrhage Control, patient sponging
6515015934841	Resuscitator Hand Operated Compact Single Use Disp	Manual ventilation (CPR)
6515014941951	Splint Malleable Alum 4x 36in	Splinting
6510007822698	Sponge Surg Gauze Abs White 4x4in 8-Ply 200s	Hemorrhage control (minor)
6515014524435	Support Cervical Adj Adult	Cervical spine stabilization
6530006600034	Support Litter Folding Lightweight 31.50 Inches High	Patient exam
6515013110360	Suture Kit Surgical 12 Components For Wound Closures Disp 20s	Minor suturing and debriding
6515015150151	Tool Kit Rescue Oropharyngeal Airway Size #4	Intubation
6515015150161	Tool Kit Rescue Oropharyngeal Airway Size #5	Intubation
6515015217976	Tourniquet Combat Applied One-Handed	Hemorrhage control
6530014622497	Wipe Germicidal 6x6.75in 160s	Treatment area cleanup

Whenever possible, NHRC tries to standardize medical equipment and consumables to the Defense Medical Materiel Procurement Office's list of Joint Products of Choice (JPOC). However, most of the items on the JPOC list are packaged for use at Role II and III MTFs, which have high rates of consumptions, and not for smaller, lighter medical capabilities such as AMAL 0960. Figures 3 and 4 show the percentage of JPOC standardization in AMAL 0960 before and after NHRC optimization.

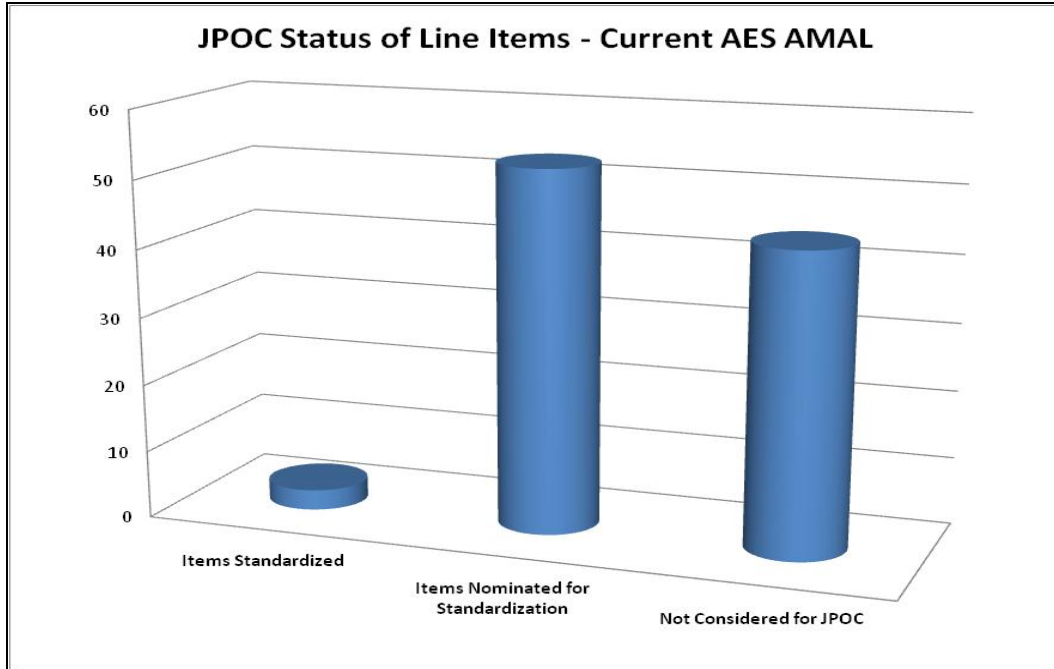


Figure 3. Percentage of JPOC standardization among the current AMAL 0960's 92 items.

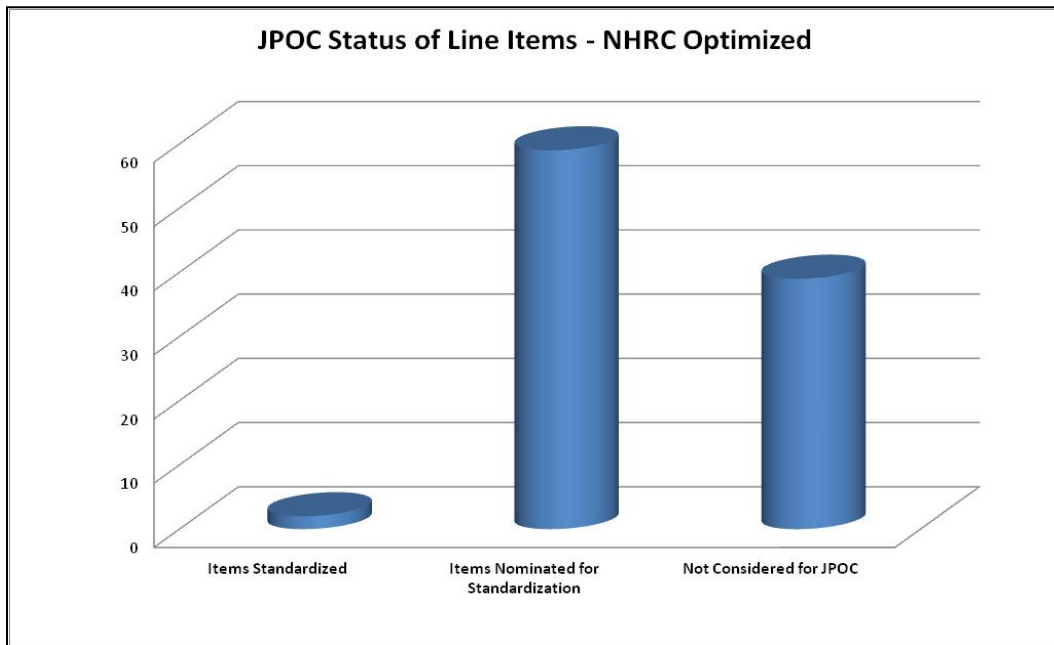


Figure 4. Percentage of JPOC standardization among the optimized AMAL 0960's 116 items.

The completed models were incorporated into NHRC's EMedKW along with the AES-specific patient stream developed by NHRC statisticians. Using this data, a scenario was created in NHRC's MCF, a stochastic modeling program used for developing medical supply lists. The MCF randomly produces a patient stream based on the probability of the patient condition (ICD-9) in the base casualty stream. It then produces a list of medical supplies needed to treat the

patient stream. One hundred varying patient streams and supply lists are created in this fashion. The quantity of each supply item produced by each patient stream is then rank ordered from lowest quantity to highest. The analyst selects which rank or percentile of supplies to use. In this study, the 80th percentile was used to produce the supply lists for all three versions of the AES AMAL.

Findings

The differences in line item quantities between the current and CNAF modified AMAL 0960, and the quantities produced for those same AMAL versions by the MCF process, were not dramatic. This was because the MCF output was rounded up to full units of issue (UI)—as used in both CNAF versions of the AMAL—so a comparison could be made. Tables 4 and 5 show the weight, cube, and cost differences between the CNAF line lists and the MCF output.

Table 4.

Comparison of Current AMAL 0960 to MCF Output

AMAL	No. items	Total weight (lb)	Total cube (ft)	Total cost
0960-current	92	216.98	38.21	\$7,343.47
MCF	92	255.81	52.52	\$9,999.24

Table 5.

Comparison of CNAF Modified AMAL 0960 to MCF Output

AMAL	No. items	Total weight (lb)	Total cube (ft)	Total cost
0960-modified	118	572.29	73.57	\$14,733.09
MCF	118	518.76	91.53	\$14,405.76

A greater difference can be seen by comparing the MCF output for the NHRC-derived version of AMAL 0960 with the current and CNAF-modified versions. This is even more dramatic when the quantities in the NHRC-version of the AMAL are reduced to partial UIs (or partial packages), which brings the quantities more in line with the actual usage shown by the modeling. Whether full or partial UIs are used, the supply lists developed by NHRC can complete all 50 clinical tasks identified by CNAF flight surgeons as being necessary for completion of the AES medical mission. Table 6 provides a comparison of all four versions of the AMAL.

Table 6.

Comparison of Current and Modified AMAL 0960 to NHRC Recommended Line Lists

AMAL	No. items	Total Wt (lb)	Total Cu (ft)	Total \$
0960-current	92	216.98	38.21	\$7,343.47
0960-modified	118	572.29	73.57	\$14,733.09
NHRC full UI	117	289.38	56.23	\$10,610.41
NHRC partial UI	117	253.12	45.96	\$9,094.39

As mentioned above, the NHRC line list used the current AMAL 0960 as its foundation. No items were deleted from this AMAL, although 24 new items were added based on clinical requirements, and changes were made in quantities (increases or decreases) in 33 items based on the modeling output.

Line-by-line comparisons of the CNAF AMALs and NHRC's modeling output can be found in Appendixes A–B. Appendix C shows a detailed analysis of the proposed NHRC optimized line list.

Conclusions

NHRC's process for modeling medical resource requirements showed that neither CNAF version of AMAL 0960 could adequately complete the AES medical mission. Adding 23 consumable and equipment items identified by this modeling process to the currently deployed AMAL 0960 gives it the capability to fulfill its mission. If, where applicable, the AMAL is built using partial units of issue, significant savings in weight, cube, and cost can be achieved while still maintaining mission readiness.

References

Approved for Establishment of the Air Expeditionary Squadron Authorized Minimal Medical Allowance List. (2004). Norfolk, Va.

Lee, J., Brooks, K., Ostrander, G., & White, D. (2005). *The Naval Flight Surgeon's Guide to Duties and Responsibilities, 4th Edition.* Norfolk, VA: Naval Safety Center.

Mattson, S. (2011, December 14). [Post deployment assessment of AMAL 0960 by LCDR Tammy Servies, MC].

U.S. Naval Flight Surgeon's Manual, 3rd Edition. (1991). Washington, DC: Naval Aerospace Medical Institute.

Appendix A
Comparison of Current AMAL 0960 to MCF Output

NSN	Nomenclature	0960 current quantity	MCF result quantity	UI
CONSUMABLES				
6515015480051	Adhesive Tissue Octylcyan Tip 0.5mm 12s	1	1	PG
6515015005748	Administration Set Intravenous Fluids 20 Gtt 105" Set Lg 100s	1	1	PG
6515005648242	Applicator Wood Rod 6in Sterile 200s	1	1	PG
6510005977469	Bandage Adh.75x3in Ster Dress 100s	5	1	PG
6510009355823	Bandage Elastic Rolled Ace 6inx4.5yds 12s	1	1	PG
6510009355820	Bandage Elastic Rolled Nonster 4.5ydx2 12s	1	1	PG
6515013365874	Cath & Ndl Iv 16gax1.25in 200s	1	1	PG
6515013373681	Cath & Ndl Iv 18gax1.25in 200s	1	1	PG
6515003245500	Depressor Tongue 6x0.75x0.062in Straight 100s	2	1	PG
8105010990355	Envelope Drug Dispensing 5x3in Frosted 1000s	1	1	PG
6515011498842	Gloves Surg Sz 8 Rubber 50s	2	10	PG
6505015050947	Loratadine Tablets 10mg Pseudoephedrine 240mg Ext-Rel 24hr 10s	1	4	PG
6510007863736	Pad Isopropyl Alcohol Impregnated White 200s	2	1	PG
6515012968419	Remover Surg Staple Ster Disp 12s	1	1	EA
6515010715561	Stapler Skin Surg Disp 6.9x3.9mm Staples 6s	1	1	PG
6515001491206	Syringe & Needle Hypo 23ga 1 In Ndl 3ml 100s	1	1	PG
6530014609635	Container Sharps Disp 1qt 72s	1	1	PG
MEDICATIONS				
6505009857301	Acetaminophen Tab 325mg 1000s	1	1	BT
6505013419964	Acyclovir Tab 800mg 100s	1	1	BT
6505015382871	Albuterol Sulfate Inhal Aerosol W/Hfa 90mcg W/Adap 6.7gm 200actu	4	2	EA
6505014113154	Alumina Magnesia & Simethicone Susp 5 Oz 12s	1	3	PG
6505014731770	Aluminum Magnesium Tabs 100s	1	1	BT
6505009617486	Artificial Tears 15 MI	4	6	BT
6505001538750	Aspirin Tab 320mg 1000s	1	1	BT

NSN	Nomenclature	0960 current quantity	MCF result quantity	UI
6505014491635	Azithromycin Tab 250mg 30s	2	3	BT
6505001596625	Bacitracin Ointment .5oz Tube 12s	1	1	PG
6505001182759	Bisacodyl Tab 5mg 100s	1	1	PG
6505014437607	Bismuth Subsalicylate Tab Chew Sugar Free 30s	1	1	PG
6505013629905	Cepacol Or Equiv Throat Lozenges Ind Sealed 432s	4	1	PG
6505001656545	Cephalexin Cap 250mg 100s	2	5	BT
6505001352881	Charcoal Activated Powder 15gm	2	1	BT
6505013519272	Ciprofloxacin Hcl Ophth Sol 0.3% 5ml 1s	2	2	BT
6505013334154	Ciprofloxacin Tab 500mg 100s	2	3	BT
6505010235011	Clotrimazole Cream Topical 1% 15gm	4	4	TU
6505010628010	Cyclobenzaprine Hydroch Tab 10mg 100s	1	1	BT
6505003697289	Dicloxacillin Sodium Caps 250mg 100s	2	2	BT
6505001168350	Diphenhydramine Hcl 50mg Cap 100s	1	1	BT
6505015182962	Diphenhydramine Hydroch 50mg/MI 1ml Carp 10s	1	1	PG
6505000095063	Doxycycline Hyclate Caps 100mg 500s	1	1	BT
6505002998760	Epinephrine Inj Aqueous 1mg/1ml Amp 25s	1	1	PG
6505012014236	Epinephrine Inj 2ml	1	1	EA
6505009820288	Erythromycin Ophthalmic Ointment 5mg/Gm 3.5gm	4	4	TU
6505006041223	Erythromycin Tab 250mg 100s	2	8	BT
6505015139739	Fexofenadine Hcl Tab 60mg 100s	1	1	BT
6505013953039	Fluconazole Tab 150mg I.S. 12s	1	1	PG
6505001490160	Fluocinonide Cream 0.05% 15gm Tube	4	4	TU
6505015032390	Fluorescein Sodium Ophthalmic Strips 1mg 100s	1	1	PG
6505014107226	Fluticasone Propionate Nasal Spray 16gm	1	1	EA
6505013296484	Guaifenesin & Dextromethorphan Tabs 100s	2	1	BT
6505012816758	Hydrocortisone & Pramoxine Hcl 1 Oz	4	4	TU
6505009262095	Hydrocortisone Cream 1% 1 Oz (28.35 Gm)	4	4	TU
6505005799717	Hydroxyzine Hydroch Tab 25mg 500s	1	1	BT

NSN	Nomenclature	0960 current quantity	MCF result quantity	UI
6505012149062	Ibuprofen Tab 800 Mg 500s	1	1	BT
6505012729401	Ketoconazole Cream 2% 15gm Tube	4	4	TU
6505014821064	Ketorolac Tromethamine Inj 30mg/MI 1ml 10s	1	1	PG
6505014446632	Levofloxacin Tab 500 Mg 50s	1	3	BT
6505010666568	Loperamide Hydroch Caps 2mg 100s	2	1	BT
6505009262111	Meclizine Hydroch Tab Chew 25 Mg 100s	2	2	BT
6505013151275	Mefloquine Hydroch Tab 250mg I.S. 25s	1	1	PG
6505012485399	Metoclopramide Injection Usp 5mg/MI 10ml Vial 25s	1	1	PG
6505008901840	Metronidazole Tab 250mg 250s	1	1	BT
6505015331574	Naphazoline Hcl&Pheniramine Mal Opht Sol 15ml	4	6	BT
6505011555157	Naproxen Sod Tabs 275mg 100s	2	2	BT
6505012394666	Neomycin And Polymyxin B Sulfates And Bacitracin Zinc Oint 0.5oz Tu	5	6	TU
6505010430230	Neomycin Polymy Hydrocort Otic Susp 10ml	4	7	BT
6505014860542	Nitroglycerin Lingual Aerosol 0.4mg	1	1	EA
6505012109506	Nystatin & Triamcinolone Acetonide Cream 15gm	4	4	TU
6505008694177	Oxymetazoline Hcl Nasal Sol 15ml	10	5	BT
6505001490141	Penicillin V Potassium Tab 400000 Units 100s	2	9	BT
6505013218812	Permethrin Cream 60gm Tube	2	2	TU
6505001388461	Phenazopyridine Hydroch Tab 100mg 100s	1	1	BT
6505011460539	Prednisone Tablets 10mg 500 Tabs	1	1	BT
6505006807352	Promethazine Hydroch Inj 25mg/MI 1ml Amp 25s	1	1	PG
6505013648557	Promethazine Hydroch Tab 25mg 100s	1	1	BT
6505014737775	Pseudoephedrine Hcl Tab 60mg 100s	4	1	BT
6505011607702	Ranitidine Tab 150mg 60s	1	1	BT
6505014623025	Ringer's Inj Lactated 1000ml 14s	2	1	PG
6505013306269	Sodium Chl Inj .9% 1000ml 12s	2	1	PG
6505011926554	Sodium Chl Nasal Sol 0.65% 45ml	5	5	BT
6505010238713	Sulfacetamide Sod Ophthal Sol 15ml	4	4	BT

NSN	Nomenclature	0960 current quantity	MCF result quantity	UI
6505005607331	Sulfadiazine Silver Cream 1% Topical 400gm	1	1	JR
6505010161470	Sulfamethoxazole &Trimethoprim Tab 100s	2	2	BT
6505012908950	Terconazole Vaginal Cream .4% 45gm Tu W Applicator	1	1	TU
6505005824737	Tetracaine Hcl Ophth Sol 0.5% 15 MI	4	1	BT
6505006828194	Triamcinolone Acetonide Cream 0.1% 15 Gm	1	1	TU
6505008718289	Tropicamide Ophth Sol 1% 15 MI	2	1	BT
EQUIPMENT				
6530014523226	Backpack Med 20x14x10in Camo	1	1	EA
6515015104967	Case,Sphygmomanometer	1	1	EA
8460002128086	Chest,Collapsible	2	2	EA
6515015602736	Otoscope And Ophthalmoscope Set W/Hard Case 3/5v	1	1	EA
6515015305160	Sphygmomanometer Aneroid Adlt 1-Piece	1	1	EA
6515013146694	Stethoscope Littman Classic Ii 28in	1	1	EA

Appendix B
Comparison of CNAF Modified AMAL 0960 to MCF Output

NSN	Nomenclature	0960 modified quantity	MCF results quantity	UI
CONSUMABLES				
6515015480051	Adhesive Tissue Octylcyan Tip 0.5mm 12s	1	1	PG
6515015188593	Airway Set Oral Berman Dual Channel 6 Sizes	3	1	SE
6515005648242	Applicator Wood Rod 6in Sterile 200s	2	1	PG
6510005977469	Bandage Adh.75x3in Ster Dress 100s	10	1	PG
6510011562366	Bandage Elas 5yd X1in Non-Adh 30s	1	1	PG
6510001055807	Bandage Elastic Coban Flesh 3in X 5yd 24s	1	1	PG
6135009857845	Battery Nonrechargeable 1.5v Cell Aa 24s	1	1	PG
6135008357210	Battery Nonrechargeable D 1.5 Volt Cylind 12s	1	1	PG
6515013875828	Brace Ankle Lg Straps Either Ankle	2	1	EA
6515013875827	Brace Ankle Med Custom Trim-Fit Adj	2	1	EA
6515013875856	Brace Ankle Sm 8 Hook/Loop Straps	2	1	EA
6515013875831	Brace Ankle Xlge Sz	2	1	EA
6515001178416	Condom Prophylubricated W/Receptacle End 144s	3	3	PG
6515012031332	Cover Electronic Thermometer Probe Disp 1000s	1	1	PG
6515007777325	Crutches 48-59in Wood Varnished Adj	1	1	PR
6515003245500	Depressor Tongue 6x0.75x0.062in Straight 100s	2	1	PG
8105010990355	Envelope Drug Dispensing 5x3in Frosted 1000s	2	1	PG
6515015128139	Finger Splint Assorted Sz W/Straps 40s	1	1	PG
6515014618933	Glove Patient Exam 9.5in N-Dex Nitr Med 100s	2	3	PG
5276265212	Hand Sanitizer (1 Dz Pump 8 Oz Pump Bottles)	10	1	PG
6515015138003	Heel Cup Orthopedic Sz B	5	5	PR
6508014360607	Lipstick Antichap Spf15 4.4gm Stick 144s	1	1	PG
6510007863736	Pad Isopropyl Alcohol Impregnated White 200s	5	1	PG
9930013316244	Pouch Human Remains	2	1	EA
6510011202643	Salicylic Acid 40% Plaster 60% Base 5x7cm 25s	2	1	PG

NSN	Nomenclature	0960 modified quantity	MCF results quantity	UI
6515014941951	Splint Malleable Alum 4in Wi X 36in	1	2	EA
6515014854041	Splint Malleable Finger 18x0.75in 12s	1	1	PG
6510007822700	Sponge Surg12-Ply Gauze 2x2in Ster 200s	5	1	PG
6515014524435	Support Cervical Adj Adult	3	3	EA
6515012574672	Support Elbow Tennis Univ Adj Wrap-Around	5	0	EA
6515001491206	Syringe & Needle Hypo 23ga 1 In Ndl 3ml 100s	2	1	PG
8465013376792	Tag Triage Disaster Coler Coded 200s	1	1	PG
6550013766541	Test Kit Human Chorionic Gonadotropin 40s	1	1	EA
6550001656538	Test Kit Occult Blood Determin 100s	1	1	EA
6550012215400	Test Strips Bilirub Glu Ket N Ph Leuk Ph 100s	1	1	BT
6515015217976	Tourniquet Combat Applied One-Handed	3	3	EA
6515014615798	Tourniquet Nonpneum Vacutainer 1inx18in 25s	1	0	PG
6530014622497	Wipe Germicidal 6x6.75in 160s	8	1	PG

MEDICATIONS

6505009857301	Acetaminophen Tab 325mg 1000s	2	1	BT
6505013419964	Acyclovir Tab 800mg 100s	1	1	BT
6505015382871	Albuterol Sulfate Inhal Aerosol W/Hfa 90mcg W/Adap 6.7gm 200actu	6	5	EA
6505009617486	Artificial Tears 15 MI	10	6	BT
6505001538750	Aspirin Tab 320mg 1000s	1	1	BT
6505014491635	Azithromycin Tab 250mg 30s	2	3	BT
6505013058161	Bacitracin & Polymyxin Ophth Oint 3.5gm 12s	1	1	PG
6505001596625	Bacitracin Ointment .5oz Tube 12s	3	1	PG
6505006601798	Benzonate Cap 100 Mg 100s	1	1	BT
6505014437607	Bismuth Subsalicylate Tab Chew Sugar Free 30s	10	5	PG
6505001656545	Cephalexin Cap 250mg 100s	1	5	BT
6.50501E+12	Cetylpyridinium Chloride Lozenges 1.5mg 648s	3	1	PG
6505001352881	Charcoal Activated Powder 15gm	2	1	BT
6505013519272	Ciprofloxacin Hcl Ophth Sol 0.3% 5ml 1s	2	2	BT

NSN	Nomenclature	0960 modified quantity	MCF results quantity	UI
6505012738650	Ciprofloxacin Tab 500mg Blis Pk 100s	1	1	PG
6505015054632	Citalpram Hydrobromide 20 Mg 100s	1	1	BT
6505010235011	Clotrimazole Cream Topical 1% 15gm	2	2	TU
6505010628010	Cyclobenzaprine Hydroch Tab 10mg 100s	1	1	BT
6505015182962	Diphenhydramine Hydroch 50mg/MI 1ml Carp 10s	1	1	PG
6505000095063	Doxycycline Hyclate Caps 100mg 500s	3	1	BT
6505012014236	Epinephrine Inj 2ml	5	3	EA
6505009820288	Erythromycin Ophthalmic Ointment 5mg/Gm 3.5gm	10	5	TU
6505013953039	Fluconazole Tab 150mg I.S. 12s	1	1	PG
6505015032390	Fluorescein Sodium Ophthalmic Strips 1mg 100s	1	1	PG
6505014107226	Fluticasone Propionate Nasal Spray 16gm	5	5	EA
6505012816758	Hydrocortisone & Pramoxine Hcl 1 Oz	2	2	TU
6505009262095	Hydrocortisone Cream 1% 1 Oz (28.35 Gm)	4	4	TU
6505001538480	Hydrogen Peroxide Topical Sol 1pint (473 MI)	3	1	BT
6505005799717	Hydroxyzine Hydroch Tab 25mg 500s	1	1	BT
6505012149062	Ibuprofen Tab 800 Mg 500s	4	1	BT
6505012729401	Ketoconazole Cream 2% 15gm Tube	5	5	TU
6505014821064	Ketorolac Tromethamine Inj 30mg/MI 1ml 10s	1	1	PG
6505015249195	Levonorgestrel Tablets 0.075mg 2s	2	2	PG
6505005986116	Lidocaine Hydroch Inj 1.0%/MI 50ml	3	1	BT
6505014554200	Lidocaine&Epinephrine 1:100000 20ml Vi	3	1	VI
6505010666568	Loperamide Hydroch Caps 2mg 100s	2	1	BT
6505015050915	Loratadine 10mg 10/Card 10s	10	5	PG
6505015050947	Loratadine Tablets 10mg Pseudoephedrine 240mg Ext-Rel 24hr 10s	10	5	PG
6505013151275	Mefloquine Hydroch Tab 250mg I.S. 25s	1	1	PG
6505011243800	Metoclopramide Tablets Usp 10mg 500s	1	1	PG
6505015049756	Montelukast Sodium Tablets 10 Mg 30s	1	1	PG
6505010076116	Multivitamin&Mineral Tablets 100s	2	2	BT

NSN	Nomenclature	0960 modified quantity	MCF results quantity	UI
6505015334126	Naloxone Hydroch Inj 0.4 Mg/MI 1ml Vi 10s	1	1	PG
6505015331574	Naphazoline Hcl&Pheniramine Mal Opht Sol 15ml	10	6	BT
6505012394666	Neomycin And Polymyxin B Sulfates And Bacitracin Zinc Oint 0.5oz Tu	5	5	TU
6505010430230	Neomycin Polymy Hydrocort Otic Susp 10ml	3	7	BT
6505014860542	Nitroglycerin Lingual Aerosol 0.4mg	1	1	EA
6505008694177	Oxymetazoline Hcl Nasal Sol 15ml	15	5	BT
6505001490141	Penicillin V Potassium Tab 400000 Units 100s	1	9	BT
6505013384710	Podofilox Topical Sol 3.5ml Bottle	2	1	BT
6505011460539	Prednisone Tablets 10mg 500 Tabs	1	1	BT
6505013482465	Primaquine Phosphate Tablets 15 Mg 100s	1	1	BT
6505014737775	Pseudoephedrine Hcl Tab 60mg 100s	4	1	BT
6505011607702	Ranitidine Tab 150mg 60s	1	1	BT
6505002998671	Selenium Sulfide Lotion 2.5% Topical 120ml	2	2	BT
6505014624194	Sodium Chl Irrig .9% 1000ml Bt 12s	1	1	PG
6505011926554	Sodium Chl Nasal Sol 0.65% 45ml	10	6	BT
6505010161470	Sulfamethoxazole &Trimethoprim Tab 100s	2	2	BT
6505015319924	Sumatriptan Succinate Tab 100mg 9s	2	2	PG
6505005824737	Tetracaine Hcl Ophth Sol 0.5% 15 MI	1	1	BT
6505013559491	Tolnaftate Powder 45gm W/Enser Top 6s	3	3	PG
6505014629917	Tramadol Hcl Tab 50mg 100s	1	1	BT
6505006828194	Triamcinolone Acetonide Cream 0.1% 15 Gm	2	2	TU
6505008718289	Tropicamide Ophth Sol 1% 15 MI	2	1	BT
6505001501990	Zinc Oxide Ointment 1 Oz (28.35 Gm)	2	2	TU
EQUIPMENT				
6530014523226	Backpack Med 20x14x10in Camo	3	3	EA
8460002128086	Chest, Collapsible	8	8	EA
7520002815918	Clip Board File 9x12.5in Comp Board Back	2	2	EA
6515007777340	Cushion Crutch Sponge Rubber 8x1.5in 6in Op	1	1	PR

NSN	Nomenclature	0960 modified quantity	MCF results quantity	UI
6515015683799	Defibrillator Automated External -Lead Ecg Cable	1	1	EA
6515003406700	Hammer Reflex Testing Taylor 7in Triangular	1	1	EA
6530014325114	Litter Rigid Folding Raven Polypropylene	1	1	EA
6515012761417	Mask Oronasal CPR Univ Pocket Sz W/Case	3	3	EA
6515013333165	Otoscope & Ophthalmoscope Set Welch Allyn	1	1	SE
6515009357138	Scissor Bandage Angled 7.25in	3	3	EA
6515015305160	Sphygmomanometer Aneroid Adlt 1-Piece	3	3	EA
6515013146694	Stethoscope Littman Classic Ii 28in	3	3	EA
6530015233314	Support Litter Folding Lightwt Alum 31.5in	1	1	PR
6640081401868	Thermometer Digital Clinical	1	1	EA
3740002523384	Trap Mouse Spring Wood Base 4-Way Rel 12s	2	2	DZ

**Appendix C
NHRC's Recommended Line List (Full & Partial UI)**

Recommended action (full UI)	Reason	NSN	Name	AMAL 0960 UI	NHRC full UI	NHRC partial UI	UI	JPOC?
CONSUMABLES								
No change		6515015480051	Adhesive Tissue Octylcyan Tip 0.5mm 12s	1	1	0.5	PG	No
Replace w/ 6515014495924	Excessive pkg	6515015005748	Administration Set Intravenous Fluids 20 Gtt 105" Set Lg 100s	1	1	0.25	PG	No
Add		6515014495924	Administration Set Iv Selectable Drip "Y" Type Ndles Inj Sites 48S	0	0	.52	PG	Nominated
Add	Clinical requirement	6515015188593	Airway Set Oral Berman Dual Channel 6 Sizes	0	1	1	SE	Nominated
No change		6515005648242	Applicator Wood Rod 6in Sterile 200s	1	1	0.5	PG	Nominated
Decrease	Based on model usage	6510005977469	Bandage Adh.75x3in Ster Dress 100s	5	1	1	PG	Nominated
Add	Clinical requirement	6510001055807	Bandage Elastic Coban Flesh 3in X 5yd 24s	0	1	0.25	PG	Nominated
No change		6510009355823	Bandage Elastic Rolled Ace 6inx4.5yds 10s	1	1	0.5	PG	Nominated
No change		6510009355820	Bandage Elastic Rolled Nonster 4.5ydx2 10s	1	1	0.5	PG	Nominated
Add	Clinical requirement	6510015032117	Bandage Gauze Fluff 4.5in X 4.1yds	0	6	6	RO	Nominated
Add	Clinical requirement	6510015623325	Bandage Gauze Impregnat 3nx4yd Combat Gauze	0	2	2	EA	Nominated
Add	Clinical requirement	6510002011755	Bandage Muslin Compress Olive 37x37x52in	0	4	4	EA	Nominated
Add	Clinical requirement	6515001490104	Cath Kit Urethral 16fr	0	1	1	EA	Nominated
No change		6515013365874	Cath & Ndl Iv 16gax1.25in 200s	1	1	0.25	PG	No
No change		6515013373681	Cath & Ndl Iv 18gax1.25in 200s	1	1	0.25	PG	No
Decrease	Based on model usage	6515003245500	Depressor Tongue 6x0.75x0.062in Straight 100s	2	1	1	PG	Nominated

Recommended action (full UI)	Reason	NSN	Name	AMAL 0960 UI	NHRC full UI	NHRC partial UI	UI	JPOC?
No change		8105010990355	Envelope Drug Dispensing 5x3in Frosted 1000s	1	1	0.5	PG	Nominated
Add	Clinical requirement	6515014618933	Glove Patient Exam 9.5in N-Dex Nitr Med 100s	0	2	2	PG	Yes
Decrease	Based on model usage	6515011498842	Gloves Surg Sz 8 Rubber 50s	2	1	1	PG	No
Add	Clinical requirement	8520015670443	Sanitizer Hand Foam Non Alcohol 7-Oz 4S	0	2	2	PG	No
Add	Clinical requirement	6515013110360	Kit Suture Surg 12 Components 20s	0	1	0.5	PG	Nominated
Add	Clinical requirement	6515015371531	Mask Respirator Anti-Microbial Adult	0	2	2	EA	No
Add	Clinical requirement	6515015410635	Ndl & Cath Decompression 14g 3.25in	0	2	2	EA	Nominated
Add	Clinical requirement	6510007755706	Pad Abdomen 7.5x8in 3layers Ster Seal Pg 240s	0	1	0.25	PG	Nominated
Decrease	Based on model usage	6510007863736	Pad Isopropyl Alcohol Impregnated White 200s	2	1	1	PG	Nominated
No change		6515012968419	Remover Surg Staple Ster Disp 12s	1	1	0.5	PG	Yes
Add	Clinical requirement	6515015934841	Resuscitator Hand Operated Bag Valve Mask	0	1	1	EA	No
Add	Clinical requirement	6515014941951	Splint Malleable Alum 4x36in	0	2	2	EA	Nominated
Add	Clinical requirement	6510007822698	Sponge Surg Gauz Abs White 4x4in 8-Ply 200s	0	1	1	PG	Nominated
No change		6515010715561	Stapler Skin Surg Disp 6.9x3.9mm Staples 6s	1	1	0.5	PG	No
Add	Clinical requirement	6515014524435	Support Cervical Adj Adult	0	2	2	EA	No
No change		6515001491206	Syringe & Needle Hypo 23ga 1 In Ndl 3ml 100s	1	1	1	PG	No
Add	Clinical requirement	6510009268884	Tape Adhesive Surg Woven 3inx10yd 4s	0	1	1	PG	Nominated
Add	Clinical requirement	6515015217976	Tourniquet Combat Applied One-Handed	0	2	2	EA	Nominated

Recommended action (full UI)	Reason	NSN	Name	AMAL 0960 UI	NHRC full UI	NHRC partial UI	UI	JPOC?
Add	Clinical requirement	6515015150151	Tube Oropharyn Airway King Lt	0	1	1	EA	Nominated
Add	Clinical requirement	6515015150161	Tube Rescue Oropharyngeal Airway Red Sz #5	0	1	1	EA	Nominated
Add	Clinical requirement	6530014622497	Wipe Germicidal 6x6.75in 160s	0	1	1	PG	No

MEDICATIONS

No change		6505009857301	Acetaminophen Tab 325mg 1000s	1	1	1	BT	No
No change		6505013419964	Acyclovir Tab 800mg 100s	1	1	1	BT	No
Decrease	Based on model usage	6505015382871	Albuterol Sulfate Inhal Aerosol W/Hfa 90mcg W/Adap 6.7gm 200actu	4	2	2	EA	Nominated
No change		6505014113154	Alumina Magnesia & Simethicone Susp 5 Oz 12s	1	1	1	PG	No
No change		6505014731770	Aluminum Magnesium Tabs 100s	1	1	1	BT	Nominated
Increase	Based on model usage	6505009617486	Artificial Tears 15 MI	4	6	6	BT	Nominated
No change		6505001538750	Aspirin Tab 320mg 1000s	1	1	1	BT	No
Increase	Based on model usage	6505014491635	Azithromycin Tab 250mg 30s	2	3	3	BT	No
No change		6505001596625	Bacitracin Ointment .5oz Tube 12s	1	1	0.5	PG	No
No change		6505001182759	Bisacodyl Tab 5mg 100s	1	1	1	PG	Nominated
No change		6505014437607	Bismuth Subsalicylate Tab Chew Sugar Free 30s	1	1	1	PG	Nominated
Decrease	Based on model usage	6505013629905	Cepacol Or Equiv Throat Lozenges Ind Sealed 432s	4	1	0.5	PG	No
No change		6505001656545	Cephalexin Cap 250mg 100s	2	2	2	BT	Nominated
Decrease	Based on model usage	6505001352881	Charcoal Activated Powder 15gm	2	1	1	BT	Yes
No change		6505013519272	Ciprofloxacin Hcl Ophth Sol 0.3% 5ml 1s	2	2	2	BT	Nominated

Recommended action (full UI)	Reason	NSN	Name	AMAL 0960 UI	NHRC full UI	NHRC partial UI	UI	JPOC?
Increase	Based on model usage	6505013334154	Ciprofloxacin Tab 500mg 100s	2	3	3	BT	Nominated
Decrease	Based on model usage	6505010235011	Clotrimazole Cream Topical 1% 15gm	4	2	2	TU	No
No change		6505010628010	Cyclobenzaprine Hydroch Tab 10mg 100s	1	1	1	BT	Nominated
No change		6505003697289	Dicloxacillin Sodium Caps 250mg 100s	2	2	2	BT	Nominated
No change		6505001168350	Diphenhydramine Hcl 50mg Cap 100s	1	1	1	BT	No
No change		6505015182962	Diphenhydramine Hydroch 50mg/MI 1ml Carp 10s	1	1	1	PG	Nominated
No change		6505000095063	Doxycycline Hyclate Caps 100mg 500s	1	1	1	BT	No
No change		6505002998760	Epinephrine Inj Aqueous 1mg/1ml Amp 25s	1	1	1	PG	Nominated
No change		6505012014236	Epinephrine Inj 2ml	1	1	1	EA	Nominated
Decrease	Based on model usage	6505009820288	Erythromycin Ophthalmic Ointment 5mg/Gm 3.5gm	4	2	2	TU	Nominated
Increase	Based on model usage	6505006041223	Erythromycin Tab 250mg 100s	2	3	3	BT	No
No change		6505015139739	Fexofenadine Hcl Tab 60mg 100s	1	1	1	BT	No
No change		6505013953039	Fluconazole Tab 150mg I.S. 12s	1	1	1	PG	Nominated
Decrease	Based on model usage	6505001490160	Fluocinonide Cream 0.05% 15gm Tube	4	2	2	TU	No
No change		6505015032390	Fluorescein Sodium Ophthalmic Strips 1mg 100s	1	1	1	PG	Nominated
No change		6505014107226	Fluticasone Propionate Nasal Spray 16gm	1	1	1	EA	Nominated
Decrease	Based on model usage	6505013296484	Guaifenesin & Dextromethorphan Tabs 100s	2	1	1	BT	No
Decrease	Based on model usage	6505012816758	Hydrocortisone & Pramoxine HCL 1 Oz	4	2	2	TU	Nominated
Decrease	Based on model usage	6505009262095	Hydrocortisone Cream 1% 1 Oz (28.35 Gm)	4	2	2	TU	Nominated

Recommended action (full UI)	Reason	NSN	Name	AMAL 0960 UI	NHRC full UI	NHRC partial UI	UI	JPOC?
No change		6505005799717	Hydroxyzine Hydroch Tab 25mg 500s	1	1	1	BT	No
No change		6505012149062	Ibuprofen Tab 800 Mg 500s	1	1	1	BT	Nominated
Decrease	Based on model usage	6505012729401	Ketoconazole Cream 2% 15gm Tube	4	2	2	TU	No
No change		6505014821064	Ketorolac Tromethamine Inj 30mg/MI 1ml 10s	1	1	1	PG	Nominated
Increase	Based on model usage	6505014446632	Levofloxacin Tab 500 Mg 50s	1	3	3	BT	Nominated
Add	Clinical requirement	6505014554200	Lidocaine&Epinephrine 1:100000 20ml Vi	0	1	1	VI	Nominated
Decrease	Based on model usage	6505010666568	Loperamide Hydroch Caps 2mg 100s	2	1	1	BT	No
Increase	Based on model usage	6505015050947	Loratadine Tablets 10mg Pseudoephedrine 240mg Ext-Rel 24hr 10s	1	3	3	PG	Yes
No change		6505009262111	Meclizine Hydroch Tab Chew 25 Mg 100s	2	2	2	BT	Nominated
No change		6505013151275	Mefloquine Hydroch Tab 250mg I.S. 25s	1	1	1	PG	Nominated
No change		6505012485399	Metoclopramide Injection Usp 5mg/MI 10ml Vial 25s	1	1	1	PG	No
No change		6505008901840	Metronidazole Tab 250mg 250s	1	1	1	BT	No
Increase	Based on model usage	6505015331574	Naphazoline Hcl&Pheniramine Mal Opht Sol 15ml	4	6	6	BT	Nominated
No change		6505011555157	Naproxen Sod Tabs 275mg 100s	2	2	2	BT	No
Increase	Based on model usage	6505012394666	Neomycin And Polymyxin B Sulfates And Bacitracin Zinc Oint 0.5oz Tu	5	7	7	TU	Nominated
Increase	Based on model usage	6505010430230	Neomycin Polymy Hydrocort Otic Susp 10ml	4	7	7	BT	Nominated
No change		6505014860542	Nitroglycerin Lingual Aerosol 0.4mg	1	1	1	EA	Nominated
Decrease	Based on model usage	6505012109506	Nystatin & Triamcinolone Acetonide Cream 15gm	4	2	2	TU	No
Decrease	Based on model usage	6505008694177	Oxymetazoline Hcl Nasal Sol 15ml	10	5	5	BT	Nominated

Recommended action (full UI)	Reason	NSN	Name	AMAL 0960 UI	NHRC full UI	NHRC partial UI	UI	JPOC?
Increase	Based on model usage	6505001490141	Penicillin V Potassium Tab 400000 Units 100s	2	3	3	BT	No
No change		6505013218812	Permethrin Cream 60gm Tube	2	2	2	TU	Nominated
No change		6505001388461	Phenazopyridine Hydroch Tab 100mg 100s	1	1	1	BT	Nominated
No change		6505011460539	Prednisone Tablets 10mg 500 Tabs	1	1	1	BT	No
No change		6505006807352	Promethazine Hydroch Inj 25mg/MI 1ml Amp 25s	1	1	1	PG	No
No change		6505013648557	Promethazine Hydroch Tab 25mg 100s	1	1	1	BT	Nominated
Decrease	Based on model usage	6505014737775	Pseudoephedrine Hcl Tab 60mg 100s	4	1	1	BT	No
No change		6505011607702	Ranitidine Tab 150mg 60s	1	1	1	BT	Nominated
Decrease	Based on model usage	6505014623025	Ringer's Inj Lactated 1000ml 14s	2	1	0.5	PG	No
Decrease	Based on model usage	6505013306269	Sodium Chl Inj .9% 1000ml 12s	2	1	0.5	PG	Nominated
No change		6505011926554	Sodium Chl Nasal Sol 0.65% 45ml	5	5	5	BT	Nominated
Decrease	Based on model usage	6505010238713	Sulfacetamide Sod Ophthal Sol 15ml	4	2	2	BT	Nominated
No change		6505005607331	Sulfadiazine Silver Cream 1% Topical 400gm	1	1	1	JR	Nominated
No change		6505010161470	Sulfamethoxazole &Trimethoprim Tab 100s	2	2	2	BT	Nominated
No change		6505012908950	Terconazole Vaginal Cream .4% 45gm Tu W Applicator	1	1	1	TU	No
Decrease	Based on model usage	6505005824737	Tetracaine Hcl Ophth Sol 0.5% 15 MI	4	1	1	BT	Nominated
No change		6505006828194	Triamcinolone Acetonide Cream 0.1% 15 Gm	1	1	1	TU	Nominated
Decrease	Based on model usage	6505008718289	Tropicamide Ophth Sol 1% 15 MI	2	1	1	BT	Nominated

EQUIPMENT

Recommended action (full UI)	Reason	NSN	Name	AMAL 0960 UI	NHRC full UI	NHRC partial UI	UI	JPOC?
No change		6530014609635	Container Sharps Disp 1qt 72s	1	1	1	PG	No
No change		6530014523226	Backpack Med 20x14ix10in Camo	1	1	1	EA	No
No change		6515015104967	Case, Sphygmomanometer	1	1	1	EA	No
No change		8460002128086	Chest, Collapsible	2	2	2	EA	No
Add	Clinical requirement	6530014521651	Litter Evacuation Talon Ii Portable Compact Lightweight	0	1	1	EA	Nominated
No change		6515015602736	Otoscope And Ophthalmoscope Set W/Hard Case 3/5v	1	1	1	EA	No
No change		6515015305160	Sphygmomanometer Aneroid Adlt 1-Piece	1	1	1	EA	No
No change		6515013146694	Stethoscope Littman Classic II 28in	1	1	1	EA	Nominated
Add	Clinical requirement	6530006600034	Support Litter Folding Lightweight 31.50 Inches High	0	1	1	PR	Nominated

REPORT DOCUMENTATION PAGE

The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB Control number. **PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.**

1. REPORT DATE (DD MM YY) 25 07 12	2. REPORT TYPE Technical Document	3. DATES COVERED (from – to) Jan–May 2012
--	---	---

4. TITLE Modernization of the Air Expeditionary Squadron AMAL 0960	5a. Contract Number: 5b. Grant Number: 5c. Program Element Number: 5d. Project Number: 5e. Task Number: 5f. Work Unit Number: N1213
--	--

6. AUTHORS Hill, Martin; Zouris, James; Pang, Gerry; Wing, Vern	
---	--

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Commanding Officer Naval Health Research Center 140 Sylvester Rd San Diego, CA 92106-3521	8. PERFORMING ORGANIZATION REPORT NUMBER Tech Doc No. 12-7G
---	---

8. SPONSORING/MONITORING AGENCY NAMES(S) AND ADDRESS(ES) Commanding Officer Naval Medical Research Center 503 Robert Grant Ave Silver Spring, MD 20910-7500	Chief, Bureau of Medicine and Surgery (MED 00), Navy Dept 2300 E Street NW Washington, DC 20372-5300
10. SPONSOR/MONITOR'S ACRONYM(S) NMRC/BUMED	
11. SPONSOR/MONITOR'S REPORT NUMBER(S)	

12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.

13. SUPPLEMENTARY NOTES

14. ABSTRACT Commander, Naval Air Forces (CNAF) asked Naval Health Research Center (NHRC) to determine U.S. Navy's Air Expeditionary Squadron (AES) Authorized Medical Allowance List (AMAL) 0960 adequacy to meet future needs. NHRC analysts collected data on patient presentations seen by AES medical personnel on 20 deployments. They then developed a patient condition occurrence frequency (PCOF) table for 336 International Classification of Diseases, 9th Revision codes and used the patient stream to develop models for three versions of AMAL 0960: (a) the AMAL currently deployed with squadrons, (b) a proposed version modified by CNAF flight surgeons, and (c) one developed by NHRC. Three AMAL line lists were produced during this study. The first two showed little change in weight, cube, or cost. However, modeling showed neither of these two AMAL versions was capable of treating the full spectrum of patient conditions that AES flight surgeons might encounter. The NHRC optimized list (with 23 additional items) proved capable of treating the full spectrum of patient conditions with a moderate increase in weight, cube, and cost. If only partial packages are used, however, the increase in weight, cube, and cost was closer in line with the current AMAL.
--

15. SUBJECT TERMS AMAL, Naval Air Forces, EMedKW, modeling, Air Expeditionary Squadron
--

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UNCL	18. NUMBER OF PAGES 31	18a. NAME OF RESPONSIBLE PERSON Commanding Officer
a. REPORT UNCL	b. ABSTRACT UNCL	c. THIS PAGE UNCL			18b. TELEPHONE NUMBER (INCLUDING AREA CODE) COMM/DSN: (619) 553-8429