



***Marine Corps Operational Medicine:
Determining Medical Supply Needs of
the Forward Resuscitative Surgery***

*Martin Hill
Mike Galarneau
Paula Konoske
Gerry Pang*



Naval Health Research Center

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*Naval Health Research Center
P.O. BOX 85122
San Diego, California 92186-5122*

Marine Corps **Operational Medicine:** **Determining Medical Supply Needs of the** **Forward Resuscitative Surgery System** **And the Shock Trauma Platoon**

Martin Hill¹
Mike Galarneau²
Gerry Pang²
Paula Konoske²



¹SAIC
10260 Campus Point Drive
San Diego, CA 92121

²Naval Health Research Center
P.O. Box 85122
San Diego, CA 92186-5122

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Table of Contents

Summary	iii
Introduction	1
Method	2
Results	3
Changes in Both AMALs	3
STP AMALs	4
FRSS AMAL	7
Discussion	9
References	10
Appendix A: Subject Matter Expert Panel Attendees	A-1
Appendix B: AMAL 631 STP Equipment	B-1
Appendix C: AMAL 632 STP Consumables	C-1
Appendix D: AMAL 645 FRSS Equipment and Consumables	D-1
Equipment	D-2
Consumables	D-9

SUMMARY

Problem

Combat operations in Iraq have demonstrated the success of the highly maneuverable Forward Resuscitative Surgical System (FRSS) and the Shock Trauma Platoon (STP). Throughout much of the conflict, these two medical treatment facilities (MTFs) have been co-located together in one configuration or another. Battlefield experience has shown that the equipment and consumable inventories of these facilities need to be standardized to facilitate the flow of casualties. The static nature of operations in Iraq also showed the inventories originally developed for maneuver warfare operations did not suffice when these MTFs became more permanent facilities, as they are currently being used in theater.

Objective

Naval Health Research Center (NHRC) was tasked by the Marine Corps Systems Command (SYSCOM) and the Marine Corps Combat Development Command (MCCDC) to review and update the Authorized Medical Allowance Lists (AMALs) for the FRSS (AMAL 645) and the STP (AMAL 631 and 632). The aim of this study was to determine how to augment the medical capabilities of these two MTFs without adding excessive weight and cube that could hamper the requirements of their original maneuver warfare missions.

Method

Information on clinical needs for the FRSS and STP was gathered from medical personnel currently serving with units in Iraq, or who have recently served in Iraq or Afghanistan. This was done by direct communication with the individuals, and by examining universal needs statements filed with MCCDC or comments collected by the Naval Operational Medicine Institute's Medical Lessons Learned system. Data collected by the Navy-Marine Corps Combat Trauma Registry, maintained by NHRC, was examined to identify whether the types of combat casualties seen in Iraq necessitated any new clinical tasks to be performed at the FRSS and STP levels of care. The NHRC method of modeling clinical requirements was used to analyze the changes in inventory required by the data collected. Finally, a subject matter expert panel was held at the Naval and Marine Corps Reserve Training Center in San Diego, CA, to review the NHRC findings and recommendations.

Results and Discussion

This study was able to identify areas where the clinical capabilities of both the FRSS and STP could be augmented without increasing the weight and cube of their AMALs to such a degree it would hamper their original missions of maneuver warfare. Several areas were also recognized where additional study is needed to identify new equipment to replace items currently in the inventories that are considered clinically substandard.

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INTRODUCTION

The development of the Shock Trauma Platoon and the Forward Resuscitative Surgical System was made in response to a military requirement for more modular and mobile medical treatment facilities (MTF). The STP is designed to serve as a beachhead evacuation station, a casualty collection and clearing point, as the triage or “emergency room” for a surgical company, or to reinforce a battalion aid station.¹ The FRSS was designed as a highly mobile trauma surgical unit capable of providing “damage control” surgical intervention close to the frontline of battle to save those casualties who would otherwise die or lose limbs before reaching treatment.^{2,3,4}

During the invasion phase of Operation Iraqi Freedom, individual FRSS and STP units traveled together behind advancing coalition troops, stopping only to set up and treat incoming casualties. Patients were quickly stabilized and/or operated on, then immediately evacuated to more definitive treatment in the rear.² During the stabilization and security stages of the war, a new form of MTF was formed by co-locating 2 FRSS and 2 STP units together in static positions. Called “Surgical/Shock Trauma Platoons,” or S/STPs, these MTFs provide 2 operating tables (1 per FRSS) and 20 holding beds (10 per STP).^{3,5} In both cases, the STP took care of casualty triage, initial resuscitation and limited patient holding, while the FRSS took care of life- and limb-saving surgery.^{2,3}

While the invasion phase of the war in Iraq demonstrated the success of the FRSS and STP during maneuver warfare, static combat operations there have resulted in the MTFs performing medical procedures they were not originally intended to perform. These include more definitive surgical procedures and longer holding times.^{3,6} FRSS surgeons requested greater surgical capability in the Authorized Medical Allowance List (AMAL) 645, while the “emergency room” physicians in the STP units requested more patient-monitoring capabilities for critically injured sailors and Marines.^{7,8}

Naval Health Research Center (NHRC) was tasked by the Marine Corps Systems Command (SYSCOM) and the Marine Corps Combat Development Command (MCCDC) to review and update the medical inventories for the FRSS (AMAL 645) and the STP (AMAL 631 and 632). The aim of this study was to determine how to augment the medical capabilities of these two MTFs without adding excessive weight and cube that could hamper the requirements of their original maneuver warfare missions.

METHOD

The NHRC capability-based method of modeling medical supply requirements was developed to establish and/or review AMALs for various levels of care in the Navy and the Marine Corps. Its aim is to give clinicians in the field or the fleet the materiel they need to provide the best care possible, while still maintaining as minimal a logistical footprint as possible in concert with current Navy and Marine Corps doctrine. Each step of the modeling process is rigorously reviewed and vetted by a panel of experienced subject matter experts (SMEs) to ensure each AMAL meets the medical needs of the service.

The NHRC model was designed to interface with the Defense Medical Standardization Board's Level 3 and 4 Deployable Medical Systems (DEPMEDS) model, which consists of databases arranged in a relational structure called "Time, Task, Treater" files. The data in the DEPMEDS model are based on treatment protocols for nearly 400 patient conditions (PCs) that are considered representative of the injuries and illnesses expected to occur in theater. To build on this existing standard, the structural characteristics of the Level 1 and 2 NHRC databases are compatible with those of the DEPMEDS Time, Task, Treater files.

The NHRC model involves a four-step process that begins with the identification and number of PCs to be encountered, including combat wounds, nonbattle injuries, and illnesses. These are identified using casualty projection programs such as NHRC's FORECAS.⁹ This methodology has been successfully used to develop medical supply requirements for various levels of care, including the development of the original inventory for the FRSS, and an earlier review of the surgical company AMALs.^{10, 11}

Once the pertinent PCs are identified, clinical task profiles are created using the DEPMEDS treatment profiles. Tasks are identified for the appropriate level of care—first responder, battalion aid station, FRSS, surgical company—as well as the functional areas within those levels of care. The medical supplies and the quantities required for completion of each clinical task are then identified and mapped to the appropriate task. The modeling process also identifies the number of patients expected to receive a clinical task, since not all patients will receive the same treatment. Figure 1 illustrates the NHRC modeling process.

Patient conditions and accompanying task/supply profiles had been developed for the FRSS and STP in previous studies.^{11,12} The current study focused on upgrading the contents of the FRSS and STP AMALs based on wartime experience and lessons learned, as well as appropriately updating the model. Research included reviewing lessons learned from Afghanistan and Iraq, primarily from the Naval Operational Medicine Institute (NOMI) Medical Lessons Learned database¹³ but also from symposia presentations,^{3,5} and personal input from FRSS surgeons and STP physicians.^{6-8,14}

Figure 1. NHRC Medical Resource Model

Overview of NHRC Model					
PC 166: MIW chest with pneumothorax with penetrating wound to colon					
PC Code	Level of Care	Functional Area	Task	% of Pts	Supplies
001	1A		Triage	100	Applicator Pov-Iod Cath & Ndl 14GA Sponge Surg Cotton Syr Hypo GP Luer 60ml
002			Suction	100	
003			Hemorrhage Control	100	
004			Oxygen Setup	100	
-	1B	Pre-op	Oxygen Admin	100	
-			Vital Signs	100	
-			Pulse Ox	100	
166			Needle Thoracostomy	25	
167	2 (FRSS)	Post-op	Interpret Lab Results	100	
168			Warm Fluid Infusion	100	
169			Ultrasound Assessmt	50	
-					
-	2 (Surg Co)				
-					

Information on battle injuries seen and treatments performed at the S/STPs in Iraq was gathered from the Navy–Marine Corps Combat Trauma Registry (CTR) maintained by NHRC, which has been successful in collecting battle injury and disease and nonbattle injury data from as far forward as the battalion aid station.^{15,16} NHRC also received guidance from SYSCOM and MCCDC. On August 2–4, 2005, a panel of 37 SMEs in field medicine and medical logistics was convened at the Naval and Marine Corps Reserve Training Center in San Diego, CA, to review and approve NHRC’s findings. Appendix A lists the SME attendees.

RESULTS

Changes in Both AMALs

Some recommended changes involved equipment used in both AMALs. For instance, battlefield experience in both the FRSS and STP showed the Chillbuster portable patient warming system was inadequate for maintaining body temperature in postoperative, hypothermic patients in the austere environment. These were replaced in both AMALs by the Bair Hugger Temperature Management System (NSN 6530-01-463-6823). Similarly, field experience with the battery-powered Thermal Angel fluid warmer proved disappointing. These were replaced with the Arizant Ranger fluid warmer (NSN 6515-01-479-2437). The SMEs also requested that SYSCOM conduct a field evaluation of a new fluid warmer, the Belmont Buddy, for possible deployment use.

According to data from the CTR and other sources, wounds to upper and lower extremities make up the bulk of combat injuries in Iraq. During the invasion phase of the war, extremity wounds accounted for approximately 70% of all combat injuries, with the frequency of those wounds nearly evenly spread between arms and legs.¹⁶ Extremity injuries made up fewer of the total battle injuries during the postinvasion security and stabilization operations, but still remained the most frequently seen at 51%.³ The large number of destructive injuries to the upper extremities often means standard blood pressure cuffs, designed for use on the upper arm, could not be used. Multi-cuff sets with thigh-size cuffs were added to each AMAL for use with both manual sphygmomanometers (NSN 6515-01-289-1967) as well as with the Propaq electronic patient monitors (NSN 6515-01-463-1764).

Though not doctrine, battlefield use of whole blood transfusions from the “walking blood bank” (i.e., donors) have become necessary for patients who are coagulopathic due to hypothermia, acidosis, platelet dilution from multiple transfusions of packed red blood cells, or ingestion of platelet inhibitors like aspirin prior to being wounded. Modeling this clinical task identified the need for additional transfusion donor sets. In addition, SMEs also requested the ability to test donated blood for infectious agents such as HIV and hepatitis, and to type blood. Simple point-of-care (POC) tests, such as enzyme-linked immunosorbent assay (ELISA) test cards or cassettes were preferred.¹⁷

An ELISA POC test for HIV (NSN 6550-01-502-6235) and a POC blood-typing card (Eldon Biologicals, P/N: 2511) was added to both AMALs. However, while several ELISA POC hepatitis tests are marketed in other countries, none have been approved for sale in the United States and, subsequently, are not available for use by the U.S. military. As a result, there is currently a gap in this needed field capability for the American military medical services.¹⁷

STP AMALs 631 and 632

The STP is equipped with 10 litter beds to hold patients a maximum of 3 hours. When co-located with an FRSS, the STP acts as the latter’s triage center and postoperative ward. The STP is currently equipped with the patient care equipment (i.e., patient monitors, ventilators, patient-warming systems) to set up 2 critical care beds. Persistent small arms fire and rocket-propelled grenade attacks on helicopters have made flying medical evacuation missions in Iraq during daylight dangerous. As a result, STP units are holding on to a greater number of critical postoperative patients for longer periods of time.^{7, 8, 14} In light of this, the number of patient monitors, ventilators, warmers, and other critical care-related items was increased to provide for 4 critical care beds. [The total number of Propaq patient vitals monitors (NSN 6515-01-500-9035) was increased from 2 to 6, to allow monitoring of noncritical patients as well.] These increases also allow STPs to use some of the extra equipment, if necessary, as patient movement items on nondesignated evacuation platforms, while still maintaining a critical care capability at the STP. Table 1 shows the equipment and consumables that make up each critical care bed.

Table 1. STP Critical Care Bed Equipment and Consumables

NSN	EQUIPMENT	QTY	UI
6515014946880	Infuser Pressure Blood IV Bag 12s	1	EA
6530014325114	Litter Rigid Folding Raven Polypropylene Cover	1.00	EA
6515015009035	Monitor Patient Vital Signs Model 206 EKG SPO2 NIBP Temp 8x5x4in Batt/Cord	1.00	EA
6530006600034	Support Litter Folding Lightweight 31.50 Inches High	1.00	PR
6530014551653	Ventilator Volume Ptbl 8.8x11.5in Eagle 754 120/220v AC	1.00	EA
6515014792437	Warmer Fluid Arizant Ranger	1.00	EA
6530014636823	Warmer Hyperthermic Patient Bair Hugger Model 505	1.00	EA
NSN	CONSUMABLES	QTY	UI
6532013875858	Blanket Warming Hypothermia 84x34in Quick Access Panels 20s	0.05	PG
PN: 0040-0051	Cartridge Blood For Power Infuser M100-3a 10s	0.10	PG
6515014661488	Cartridge Infuser Power 10s	0.10	PG
6515014661195	Circuit Ventilator Medical Vinyl Disp 6ft Lg 15s	0.07	PG
6515014792442	Warmer Blood Fluid High Flow 6k-30k Ml/Hr 10s	0.10	PG

CTR data indicated “clamshell” thoracotomies were being performed at the STP in last-ditch attempts to resuscitate severely wounded, expectant patients. STP physicians complained valuable resuscitation time was frequently lost acquiring the needed instruments to perform the thoracotomy.^{7,8} In response, NHRC developed a “Mini Major Surgical Set” to augment the STP’s existing “Mini Minor Surgical Set.” Table 2 shows the contents of the proposed Mini Major Surgical Set.

Table 2. STP Mini Major Surgical Set

NSN	NOMENCLATURE	QTY	UI	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6515011346649	Retractor Rib Buford-Finocchietto Design Fenestrated	1.00	EA	5.47	0.60	\$622.05	5.47	0.60	\$622.05
6515003640520	Scissors General Surgical Mayo 6.5-7" Curved Blade Blunt Point	1.00	EA	0.08	0.00	\$20.54	0.08	0.00	\$20.54
6515006903212	Clamp Artery Debakey-Bahnsen Curved & Serrated	1.00	EA	0.50	0.06	\$198.21	3.00	0.36	\$1,189.26
6515008901682	Clamp Artery Glover 6.5cm Lg Curved Serrated 27mm Jaw Lg	1.00	EA	0.06	0.01	\$39.09	0.72	0.08	\$469.08
6515006903200	Holder Suture Needle Debakey 9" Lg Serrated Tungsten jaws	1.00	EA	0	0.023	65.86	0.62	0.046	131.72
6515002998737	Holder Suture Needle Hegar-Mayo 7" Lg Serrated Tungsten	1.00	EA	0	0.01	41.62	0.44	0.02	83.24

NSN	NOMENCLATURE	QTY	UI	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6530014212968	Basket Sterilization Rigid Cres Mid Size 17x11x4 In Stackable	1.00	EA	2.00	0.03	\$106.28	16.440	3.000	\$732.84
6530014210853	Case Sterilization Rigid Mid-Size 19x12x5in Tamper Proof Lock	1.00	EA	1.00	0.03	\$331.32	48.00	2.400	\$933.60
6515006903209	Forceps Tissue Debakey 9.5" Lg Tweezer Str & Serrate Jaw	2	EA	0.31	0.04	\$27.63	.62	.08!	\$55.26
6515008901683	Clamp Vena Cava Satinsky Serrated Ratch-Pawl 10"Lg Large Crs	1	EA	0.64	0.094	\$192.78	0.64	0.094	\$192.78
						Totals	76.03	6.61	\$4,430.37

Comments retrieved from the NOMI Medical Lessons Learned site, and confirmed by STP doctors, indicated a need for better organization of the STP AMAL to speed setup time. Twenty medical “roll-down” bags (NSN 6530-01-518-0177) similar to those used by the FRSS but designed specifically for mass casualty care were added to the STP AMAL. Unlike the prepacked FRSS bags, NHRC recommends the STP bags be provided to units unstocked. This will reduce costs and allow each STP to stock the bags as they see fit.

Experience in Iraq showed STPs were having difficulty keeping their oxygen tanks filled when they were not co-located with an FRSS and able to use its oxygen generator. NHRC recommends adding 3 small 10-lpm oxygen concentrators (NSN 6515-0-1523-7523) to the STP AMAL, and reducing the number of Type D oxygen cylinders from 8 to 6. In the event of a high-maneuver mission where the AMAL needs to be lightened, the STP can leave behind the concentrators and still function with the use of oxygen cylinders.

Injuries and illnesses involving altered mental states often require the use of blood glucose testing to make a differential diagnosis. The Diametrics IRMA portable blood analyzer (NSN 6630-01-500-8737) used in both the STP and FRSS does not test for blood glucose. NHRC therefore recommends the addition to the STP block of a field-reliable hand-held POC glucose monitor and consumables. Selected was the Abbott Labs Precision PCX (PN: 98714-03) due to its successful use in National Disaster Medical System field hospitals.

The affect of these changes on AMALs 631 and 632 can be seen in Table 3. The entire revised AMALs can be found in Appendix B (equipment) and Appendix C (consumables).

Table 3. STP AMAL Statistics*

AMAL 631/632	TOT WEIGHT	TOT CUBE	TOT COST
Current Inventory			
Equipment	916.26	70.71	\$122,473.71
Medications	393.17	14.54	\$5,983.06
Consumables	1592.99	143.63	\$19,476.64

Total AMAL	2902.42	228.88	\$147,933.41
Proposed Inventory			
Equipment	982.88	233.27	\$205164.42
Medications	366.19	20.88	\$6,746.68
Consumables	401.74	51.85	\$14,445.76
Total AMAL	1750.81	306.00	\$226,356.86
Increase/Decrease	Percentage		
Weight	-39.6		
Cube	+33.6		
Cost	+53.01		

*The growth in cube and cost are due to the increase in ventilators and patient monitors, and the addition of 3 oxygen concentrators.

FRSS AMAL 645

Unlike most Marine Corps MTFs, which have separate AMALs for equipment and consumables, the FRSS AMAL 645 contains both equipment and consumables, as well as set-up equipment such as tents and generators. The biggest change in the AMAL 645 was the study's success in making the inventory lighter and smaller. Working under direction from MCCDC and SYSCOM, NHRC and the SMEs were able to identify items that could be reduced in number or deleted altogether, and still maintain the FRSS's life- and limb-saving capabilities (Table 4).

Table 4. FRSS AMAL Statistics*

AMAL 645	TOT WEIGHT	TOT CUBE	TOT COST
Current Inventory			
Equipment	3749.72	442.62	\$374,121.67
Medications	120.1	10.16	\$4,141.04
Consumables	919.97	118.34	\$93,682.27
Total AMAL	4789.79	571.12	\$471,944.98
Proposed Inventory			
Equipment	3434.41	340.90	\$346,597.63
Medications	124.72	10.04	\$4984.37
Consumables	426	74.12	\$43,102.38
Total AMAL	3985.13	425.06	\$394,684.38
Increase/Decrease	Percentage		
Weight	-16.79		
Cube	-25.57		
Cost	-16.37		

* Does not include optional ortho surgical supplement.

Despite these reductions, two major capabilities were added to the FRSS AMAL—orthopedic surgical capabilities and anesthesia gas monitoring. The stationary nature of current FRSS operations in Iraq has resulted in more definitive surgeries being performed on wounded personnel. Since the beginning of Security and Stabilization Operations

(SASO) in 2004, orthopedic surgeons have been assigned to the S/STPs.³ An orthopedic surgical supplement had been proposed for the Surgical Company operating room in 2004, and developed by NHRC and SYSCOM. That supplement is also being recommended for inclusion in the FRSS AMAL as a stand-alone supplement that can be used during SASO operations or when the FRSS is staffed by an orthopedic surgeon, or left behind during maneuver warfare missions to lighten the load. The contents of the orthopedic supplement can be seen in Table 5.

Table 5: FRSS/Surgical Company Orthopedic Surgical Supplement

NSN	NOMEN	UI QTY	UI	UI W	UI C	UI \$	TOT WEIGHT	TOT CUBE	TOT \$
CONSUMABLES									
6510009355822	Bandage Elastic Flesh Rolled 4.5ydx4"Washable Pressure 12s	0.5	PG	2	0.183	4.74	1	0.0915	\$2.37
6510009355823	Bandage Elastic Flesh Rolled Nonsterile 6"X 4.5 Yds 12s	1.5	PG	3.25	0.28	21.15	4.875	0.42	\$31.73
6510002003040	Bandage Felt Orthopedic 6in 36s	1	PG	5.59	0.784	\$31.70	5.59	0.784	\$31.70
6510001334369	Bandage Felt Orthopedic 4in 72s	1	PG	7.79	1.09	\$39.61	7.79	1.09	\$39.61
6530012775726	Pad Bed Linen Protective 70x30" Disposable Absorbent White 100s	1	PG	20	1.2	\$76.71	20	1.2	\$76.71
PN:9800-44	Stockinette Orthopedic Bias Ster Cotton 4in X 4yd 20s (Vendor: Deroyal)	0.3	PG	0.5	0.05	\$85.07	0.15	0.015	\$25.52
EQUIPMENT									
6530015039389	Container Vented Top Quarter Size 4" Hg Red	1	EA	3.75	1.02	\$472.00	3.75	1.02	\$472.00
6515015203813	Cuff Tourniquet Adult Thigh F/Tourniquet System	1	EA	2.5	0.19	\$488.24	2.5	0.19	\$488.24
6515015196510	Cuff Tourniquet Contour Adult Arm F/Tourniquet System	1	EA	0.55	0.12	\$416.44	0.55	0.12	\$416.44
6515015196469	Cuff Tourniquet Small Adult Set F/Tourniquet System	1	EA	0.55	0.12	\$753.90	0.55	0.12	\$753.90
PN: AU16015	Curette Lempert Type #3 7in (Vendor: Cardinal Healthcare)	1	EA	0.25	0.02	\$88.14	0.25	0.02	\$88.14
PN: EL01-402	Elevator Freer Double-Ended Sharp/Blunt 6.5mm (Vendor: Lee Surgical Sales)	2	EA	0.81	0.144	\$29.10	1.62	0.288	\$58.20
PN: SU2790	Forcep Kocher Straight 1x2 5 1/2in (Vendor: Cardinal Healthcare)	2	EA	0.01	0.001	\$15.52	0.02	0.002	\$31.04
6515 011385014	Forceps Hemo Kocher Dsgn 5.50" Lg Str Jaw 1.50" Lg Str Hdl Shape	2	EA	0.01	0.001	\$27.45	0.02	0.002	\$54.90
6515011398656	Rasp Bone	1	EA	0.25	0.001	\$75.00	0.25	0.001	\$75.00
6515014862865	Retractor Gelpi 5in Lg Single Point Tips Ratchet	2	EA	0.2	0.02	\$90.00	0.4	0.04	\$180.00
6515011132623	Retractor General Operating Senn Delicate Dbl-Ended 6.25" Lg	2	EA	0.01	0.001	\$23.40	0.02	0.002	\$46.80
6515003603850	Retractor Set Abdominal Richardson-Eastman Crs Double End Type 2s	1	SE	0.81	0.144	\$26.78	0.81	0.144	\$26.78
6515003315050	Rongeur Bane Design Sgl-Jointed Curved 7"Lg Mastoid Small Jaws	1	EA	0.94	0.063	\$136.48	0.94	0.063	\$136.48
6515003656200	Scissors Tenotomy Stevens 4-4.50" O/A Lg Crvd Blade Blunt Points	1	EA	0.06	0.002	\$27.54	0.06	0.002	\$27.54
6515015196506	Tourniquet Instrument W/Hose & Adapter F/Pts System	1	EA	0.55	0.12	\$2,477.10	0.55	0.12	\$2,477.10
						TOTAL	51.15	5.61	\$3,063.10

The austere nature of the FRSS requires the use of the standard joint field portable drawover vaporizer (NSN 6515-01-355-6479) for the administration of anesthesia gases. The simplified nature of the drawover vaporizer does not allow for the real-time monitoring of anesthetic agents being provided to patients. NHRC recommends the addition of a Draeger Medical Inc. Vamos anesthesia gas monitor (NSN 6515-01-502-2117), capable of measuring 5 volatile anesthetic gases, carbon dioxide and nitrous oxide. Though designed for use with the Narkomed anesthesia machine used in Marine Corps surgical company operating rooms, the Vamos can be adapted for use with the simpler drawover vaporizer. An infusion syringe (NSN 6515-01-496-4213) was also added to the FRSS AMAL to give anesthesiologists the option of providing total intravenous anesthesia (TIVA) to select patients.

Difficult intubations due to bronchial blockages from clotted blood or mucus plugs were also reported by FRSS surgeons, who urged the addition of a bronchoscope to AMAL 645. An Olympus flexible fiber optic bronchoscope (Model LF-GP) is therefore recommended for addition to the FRSS inventory. Also recommended is an AA battery adapter (Part No. MAJ-922) to make the bronchoscope better suited for use in the austere battlefield environment.¹³

DISCUSSION

This study succeeded in upgrading the capabilities of both the STP and the FRSS for current SASO operations in Iraq without adversely affecting their mission requirements for maneuver warfare. The STP's ability to treat critically injured pre- and post-operative patients was improved with the addition of a Mini Major Surgical Set and oxygen concentrators, as well as an increase in the number of critical care holding beds. The addition of roll-down bags should also speed the STP's setup time during active combat maneuvering. The FRSS gained the ability to perform more definitive orthopedic surgeries, monitor anesthesia gasses during operations, and provide TIVA as an option to select surgical patients, while at the same time reducing the overall weight and cube of the AMAL.

As with previous studies, NHRC has shown its method of modeling and analyzing medical requirements, coupled with lessons learned from actual battlefield experience, is beneficial in developing expeditionary medical inventories capable of rendering high-quality lifesaving care even in the most austere environments. Studies such as these can prove valuable in the modularizing and updating of such MTFs as the Navy's Fleet Hospitals/Expeditionary Medical Facilities, and its hospital ships USNS Mercy and USNS Comfort for disaster and humanitarian response.

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Appendix A:
Subject Matter Expert Panel Attendees

Appendix A

Subject Matter Expert Panel Attendees

FRSS/STP Review
August 2–4, 2005
Naval and Marine Corps Reserve Training Center
San Diego, CA

Rank	First Name	Last Name	Command	E-mail	Phone
HM2	Chester	Arucan	1MEDBN	chester_arucan@yahoo.com	(760)725-3524
CIV	Maureen	Aubuchon	NHRC	aubuchon@nhrc.navy.mil	(619)553-8026
LT	Scott	Avery	3MEDBN	averyse@3fssg.usmc.mil	011-81-61-1723-7497
CAPT	Bruce	Baker	1MEDBN	bcbaker@cpen.ed.navy.mil	(760)725-1511
CAPT	Robert	Barber	4MEDBN	barberg@mfrusmc.mil	(858)537-8305
GS-11	John	Beaumont	BLOUNT IS	beaumontjr@bic.usmc.mil	(904)696-5014
CIV	James	Besser	SYSCOM	besserjh@jpmoip.org	(540)288-2503
CAPT	HR	Bohman	1MEDBN	hrbohman@cpen.med.navy.mil	(760)725-1356
LT	George	Brand	1MEDBN	brandgj@1fssg.usmc.mil	(760)725-4763
CIV	Roberto	Chavez	SYSCOM	chavezr@battelle.org	(229)446-1440
GS-11	Joseph	Deane	NMLC	JPDEANE@nmlc.med.navy.mil	(301)619-2228
CAPT	Gerald	Demarest	4MEDBN	ademarest@salud.unm.edu	(505)272-6441
LT	Justin	Dowe	3MEDLOG	doweju@3fssg.usmc.mil	011-81-61-1737-1031
CIV	Mike	Galarneau	NHRC	galarneau@nhrc.navy.mil	(619)553-8411
LT	Mel	Harnly	4MEDLOG	harnlymj@mfr.usmc.mil	(757)247-0482-ext 273
CIV	Martin	Hill	NHRC	hill@nhrc.navy.mil	(619)553-0478
CAPT	Gregory M.	Huet	MCCDC	gregory.huet@usmc.mil	(703)784-6258
CDR	Rob	Izenberg	1MEDBN	raizenberg@cpen.med.navy.mil	(760)725-1356
SKI	Ricky	James	BLOUNT IS	jamesre@bic.usmc.mil	(904)696-5153
HMCM	Michelle	Jennejahn	SYSCOM	michelle.jennejahn@usmc.mil	(703)432-3220
CIV	Paula	Konoske	NHRC	konoske@nhrc.navy.mil	(619)553-9235
HMC	Michael	Langley	3FSSG	langleyma@3fssg.usmc.mil	011-81-61-1737-1139
HM2	Daniel	Lapen	1MEDLOG	daniel.lapen@usmc.mil	(760)725-3905
LCDR	Michael	Mazurek	NMCS D	mtmazurek@nmcsd.med.navy.mil	(619)532-8427
HM2	Matthew	Merchant	1MEDBN	mattmerchant02@yahoo.com	(760)201-5123
CAPT	David	Misisco	4MEDBN	david.misisco@comcast.net	(858)537-8130
CIV	Tracy	Negus	NHRC	negus@nhrc.navy.mil	(619)524-9877
CIV	Ralph	Nix	NHRC	ralphnix@cox.net	(760) 294-4030
CDR	Don	Sallee	NMCS D	drsallee@nmcsd.navy.med.mil	(619)532-8276
LCDR	David	Schoo	SYSCOM	David.Schoo@usmc.mil	(703)432-3221
HMC	Timothy	Snyder	NMLC	tesnyder@nmlc.med.navy.mil	(301)619-7227
CAPT	Al	Sorensen	MARFORPAC	al.sorensen@usmc.mil	(808)477-8663
CAPT	Rom	Stevens	4MEDBN	rstevens@aol.com	(708)557-5917
HM2	Frank	Stovall	4MEDLOG	stovallf@mfr.usmc.mil	(757)247-0482-ext 270
HMC	Omar	Thorpe	4MEDLOG	thorpeod@mfr.usmc.mil	(757)247-0482
CIV	Charles	Webb	SYSCOM	webbc@battelle.org	(229)446-1440
CIV	Jack	Wine	SYSCOM	jack.wine@usmc.mil	(703)432-3222

Appendix A

Subject Matter Expert Panel Attendees

LEGEND

1MEDBN: 1st Medical Battalion, Camp Pendleton, CA
1MEDLOG: 1st Medical Logistics Company, Camp Pendleton, CA
3MEDBN: 3rd Medical Battalion, Okinawa, Japan
3FSSG: 3rd Force Service Support Group, Okinawa, Japan
4MEDBN: 4th Medical Battalion (Reserve)
4MEDLOG: 4th Medical Logistics Company (Reserve)
BLOUNT IS: USMC Blount Island Command, Jackson, FL
MARFORPAC: Marine Corps Forces, Pacific, Hawaii
NHRC: Naval Health Research Center, San Diego, CA
NMCSB: Naval Medical Center, San Diego, CA
NMLC: Naval Medical Logistics Command, Frederick, MD
SYSCOM: Marine Corps Systems Command, Quantico, VA

Appendix B:
AMAL 631 STP Equipment

Appendix B

AMAL 631 STP Equipment

NSN	NOMENCLATURE	QTY	UI	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6630015008737	Analyzer Blood Hand-Held Agilent Irma SI	1.00	EA	2.00	0.03	\$8,500.00	2.00	0.03	\$8,500.00
6530015180177	Bag Medical Patient Care 9x3x4"	20.00	EA	2.25	0.25	\$100.00	45.00	5.00	\$2,000.00
6530014588301	Basin 7qt Sterilizable Plas Fits Stand 12s	1.00	PG	0.35	0.12	\$1.00	0.35	0.12	\$1.00
6530014212968	Basket Sterilization Rigid Cres Mid Size 17x11x4 In Stackable	1.00	EA	2.00	0.03	\$106.28	2.00	0.03	\$106.28
6530014212971	Basket Sterilization Surg Instrument Rigid 9x5x1.75" Mini-Size	2.00	EA	2.74	0.50	\$122.14	5.48	1.00	\$244.28
6515015053437	Battery Charger Defibrillator 4x4 Zoll Defibrillator	1.00	EA	5.00	0.59	\$1,356.00	5.00	0.59	\$1,356.00
6530014617882	Bedpan Pontoon Stackable Autoclave 20s	0.30	PG	1.50	0.03	\$32.20	0.45	0.01	\$9.66
6515003634150	Blade Finger Ring Saw .018" Thick .75" Diameter 90 Teeth Steel	2.00	EA	0.01	0.00	\$17.30	0.02	0.00	\$34.60
7530002223521	Book Record 6 Inch	2.00	EA	0.00	0.00	\$1.88	0.00	0.00	\$3.76
6530014210847	Case Sterilization 10.5x7.5x3" Rigid Mini-Size	2.00	EA	8.00	0.40	\$155.60	16.00	0.80	\$311.20
6530014210853	Case Sterilization Rigid Mid-Size 19x12x5in Tamper Proof Lock	1.00	EA	1.00	0.03	\$331.32	1.00	0.03	\$331.32
6515006903212	Clamp Artery Debakey-Bahnsen Curved & Serrated 10in	1.00	EA	0.50	0.06	\$198.21	0.50	0.06	\$198.21
6515008901682	Clamp Artery Glover 6.5cm Lg Curved Serrated 27mm Jaw Lg	1.00	EA	0.06	0.01	\$39.09	0.06	0.01	\$39.09
6515008901683	Clamp Vena Cava Satinsky Serrated Ratch-Pawl 10"Lg Large Crs	1	EA	0.64	0.094	\$192.78	0.64	0.09	\$192.78
6515015237523	Concentrator Oxygen 10 Liters Per Minute 220 Volt	3.00	EA	25.00	50.00	\$1,750.00	75.00	150.00	\$5,250.00
6515014631764	Cuff Set Sphygmomanometer Non Invasive Reusable Sz Lg, Sm Adult And Thigh For Propaq	6.00	EA	3	0.75	\$96.90	18.00	4.50	\$581.40
6515015092896	Defibrillator/Monitor Manual/Auto W/Pacing (Zoll Pn: 40310011100163010)	1.00	EA	3.50	0.20	\$9,992.00	3.50	0.20	\$9,992.00
6515003345600	Forceps Hemo Halsted 5"Lg Straight Jaw Crs Box Lock	6.00	EA	0.11	0.01	\$6.27	0.66	0.05	\$37.62
6515003344900	Forceps Hemo Halsted Design 4.75-5.25" Lg Slightly Crvd	12.00	EA	0.10	0.01	\$18.09	1.20	0.11	\$217.08
6515003344300	Forceps Hemo Rochester-Pean 6-6.50"Lg 1.875" Jaw Lg Qtr-Crvd Crs	12.00	EA	0.210	0.010	\$13.99	2.52	0.12	\$167.88
6515003377800	Forceps Tissue Adson 4.50" Lg Tweezer Str & Smooth Jaw	6.00	EA	0.08	0.01	\$51.96	0.48	0.06	\$311.76
6515006903209	Forceps Tissue Debakey 9.5" Lg Tweezer Str & Serrate Jaw	2	EA	0.31	0.04	\$27.63	0.62	0.08	\$55.26
6515003447800	Handle Surgical Knife Detachable Blade Size 3 Narrow Nose	6.00	EA	0.08	0.00	\$8.65	0.48	0.01	\$51.90
6515003417200	Holder Suture Needle Collier 5" Lg Straight Jaw Box Lock Crs	6.00	EA	0.16	0.01	\$11.30	0.96	0.07	\$67.80
6515006903200	Holder Suture Needle Debakey 9" Lg Serrated Tungstenjaws	1.00	EA	0	0.023	65.86	0.31	0.02	\$65.86

Appendix B

AMAL 631 STP Equipment

NSN	NOMENCLATURE	QTY	UI	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6515002998737	Holder Suture Needle Hegar-Mayo 7" Lg Serrated Tungsten	1.00	EA	0	0.01	41.62	0.22	0.01	\$41.62
6515014946880	Infusor Pressure Blood Iv Bag 12s	2.00	PG	0.10	0.10	277.10	0.20	0.20	\$554.20
6515013448487	Injector Tube Plas Accom 1ml & 2ml Medication Needle Cart Unit	4	EA	0.11	0.07	\$5.77	0.44	0.26	\$23.08
6515014553888	Lantern Electric Head Mount Halogen & Krypton Bulb	10.00	EA	0.60	0.03	\$23.00	6.00	0.30	\$230.00
6515006165052	Laryngoscope Macintosh Child/Adult 4 Blade Inf, Child, Med Adult, Lg Adult	4.00	EA	3.96	0.16	\$55.50	15.84	0.64	\$222.00
6230015203474	Light Head General Purpose 8ft Cord Ac/Batt Power	2.00	EA	2.75	0.18	\$754.53	5.50	0.36	\$1,509.06
6530014325114	Litter Rigid Folding Raven Polypropylene Cover	18.00	EA	11.00	0.66	\$255.00	198.00	11.81	\$4,590.00
PN: 98714-03	Monitor Glucose Precision Pcx (Manf: Abbott Labs)	1.00	EA	0.250	0.025	\$698.48	0.25	0.03	\$698.48
6515015009035	Monitor Patient Vital Signs Model 206 Ekg Spo2 Nibp Temp 8x5x4in Batt/Cord	6.00	EA	12.00	1.12	\$8,150.00	54.00	1.80	\$48,900.00
6515014586178	Otoscope And Ophthalmoscope Set Deluxe W/Speculums, Cobalt Blue Lens & Softcase	3.00	SE	0.05	0.01	\$280.00	0.15	0.03	\$840.00
6515014189022	Oximeter Pulse Handheld Batt Op	2.00	EA	0.63	0.01	\$631.35	1.26	0.02	\$1,262.70
7240014643773	Pail Utility Plastic 10in High 14qt Capacity 6s	1.00	PG	0.55	0.02	\$149.15	0.55	0.02	\$149.15
4110001156027	Refrigerator Bio	1.00	EA	11.00	13.40	\$724.32	11.00	13.40	\$724.32
4110014512356	Refrigerator Blood Products (50 Un)	1.00	EA	50.00	2.50	\$10,319.21	50.00	2.50	\$10,319.21
6530007884010	Restraint Set Wrist And Ankle	1.00	SE	2.89	0.15	\$190.33	2.89	0.15	\$190.33
6515012958152	Resuscitator Hand-Powered Adult Size 4 And 5 Child Size 3	4.00	EA	12.00	1.60	\$132.05	48.00	6.40	\$528.20
6515014626143	Resuscitator Port Oxygen Admin Kit Case Rhino Regulator Demand Valve Hose Mask	4.00	SE	20.00	1.25	\$756.00	80.00	5.00	\$3,024.00
6515011346649	Retractor Rib Buford-Finocchietto Design Fenestrated	1.00	EA	5.47	0.60	\$622.05	5.47	0.60	\$622.05
6515003634100	Saw Finger Ring .75"Blade Dia 6"Lg 0.1875" Arbor Hole Diameter	1.00	EA	0.25	0.01	\$20.47	0.25	0.01	\$20.47
6515009357138	Scissors Bandage 7.25" Lg Ang To Hdl 1.50" Cut Lg Blunt Pts Crs	24.00	EA	0.19	0.01	\$6.30	4.56	0.34	\$151.20
6515003640920	Scissors Gen Surg Mayo Dsgn 6.75in Lg Blunt Pts	6.00	EA	0.35	0.01	\$18.97	2.10	0.04	\$113.82
6515003640520	Scissors General Surgical Mayo 6.5-7" Curved Blade Blunt Point	1.00	EA	0.08	0.00	\$20.54	0.08	0.00	\$20.54
6530014296715	Sink Unit Surgical Scrub And Utensil Hospital Field: 110v 60c Ac	1.00	EA	15.25	5.00	\$1,508.06	15.25	5.00	\$1,508.06
6515012891967	Sphygmomanometer & Cuff Kit W/ Thigh Lge Adl Adl Child Infant W/Case	2.00	EA	0.42	0.05	\$163.77	0.84	0.10	\$327.54
6515010394884	Sphygmomanometer Aneroid 300mm Max Calibration W/Clip For Cuff	6.00	EA	1.25	0.10	\$12.41	7.50	0.60	\$74.46
6515013146694	Stethoscope Combination Littman Classic li 28"Lg Bell-Diaphragm	8.00	EA	1.00	0.00	\$49.41	8.00	0.02	\$395.28
PN: 276-000-001	Suction Ambu Res-Cue Hand Pump (Vendor: Ambu)	4.00	EA	0.25	0.03	\$54.95	1.00	0.10	\$219.80
6515014350050	Suction Apparatus Surgical Portable	6.00	EA	5.00	0.50	\$2,210.00	30.00	3.00	\$13,260.00
6530006600034	Support Litter Folding Lightweight 31.50 Inches High	6.00	PR	13.75	1.00	\$127.17	82.50	6.00	\$745.02

Appendix B

AMAL 631 STP Equipment

NSN	NOMENCLATURE	QTY	UI	UW	UC	U\$	TOT_W	TOT_C	TOT_\$
6530014557907	Tray Clamp Assembly Table Operating	4.00	EA	0.55	0.12	\$230.45	2.20	0.48	\$921.80
6530007939570	Tray Instrument Corrosion-Resisting Steel 19.25X12.75X.75 In	4.00	EA	3.25	0.15	\$28.55	13.00	0.60	\$114.20
6515015281968	Ultrasound Blood Flow Detect 8mhz Pencil Tip Doppler (Parks)	2.00	EA	4	\$0.20	\$595.00	8.00	0.40	\$1,190.00
6525015037182	Ultrasound Unit Hand-Held Portable Sonosite 180 Battery & Ac	1.00	EA	20.00	2.00	\$35,905.65	20.00	2.00	\$35,905.65
6530014617988	Urinal Male Patient Plas	6.00	EA	1.00	0.01	\$0.76	6.00	0.06	\$4.56
6530014551653	Ventilator Volume Ptbl 8.8X11.5IN Eagle 754 120/220V AC	4.00	EA	13.00	0.75	\$9,006.00	52.00	3.00	\$36,024.00
6515014792437	Warmer Fluid Arizant Ranger	4.00	EA	5.40	0.10	\$1,350.00	21.60	0.40	\$5,400.00
6530014636823	Warmer Hypothermic Patient Bair Hugger Model 505	4.00	EA	11.50	1.15	\$1,418.77	46.00	4.60	\$5,675.08
						Totals	991.8	241.61	\$205,164.42

**Appendix C:
AMAL 632 STP Consumables**

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
	Medications								
6505015184153	Adenosine Injection USP Sterile 2 MI Syringe	10	EA	0.1	0.004	\$130.59	1	0.04	\$1,305.90
6505011169245	Albuterol Inhalation Aerolsol 17gr Container 200 Metered Sprays	4	PG	0.13	0.01	\$24.38	0.52	0.04	\$97.52
6505001009985	Aspirin Tablets USP 0.324gm 100s	1	BT	0.14	0.01	\$1.49	0.14	0.01	\$1.49
6505014745440	Atropine Sulfate Inj USP .4000mg Per MI 20ml 10s	2	PG	0.75	0.02	\$8.94	1.5	0.04	\$17.88
6505001596625	Bacitracin Ointment USP 7100 Units 0.5oz Tube 12S	4	TU	0.79	0.04	\$0.88	3.16	0.16	\$3.52
6505014802501	Cefazolin Sodium Sterile Equiv To 1gm 25S	3	PG	0.18	0.21	\$43.64	0.54	0.63	\$130.92
6505012426532	Cefotetan Disodium Sterile 2gm Vial 100S	0.3	PG	9.25	0.37	\$1,792.13	2.775	0.111	\$537.64
6505012192760	Ceftriaxone Sodium USP 1gm Vial 10S	2	PG	0.7	0.03	\$207.25	1.4	0.06	\$414.50
6505012036253	Charcoal Activated And Sorbitol SUSPension 120ml Bottle	2	BT	0.75	0.01	\$5.60	1.5	0.02	\$11.20
6505013366179	Ciprofloxacin Inj D5w 2mg/MI 200ml Bag 24S	1	PG	4.44	0.11	\$237.48	4.44	0.11	\$237.48
6505004002054	Codeine Phosphate And Acetaminophen Tablets 100 Tablets/Bt	1	BT	0.19	0.01	\$3.73	0.19	0.01	\$3.73
6505002999666	Cyclopentolate Hydrochloride Ophthalmic Solution USP 1% 15ml	1	BT	0.06	0	\$1.10	0.06	0	\$1.10
6515015092908	Defibrillator Deployment Pack Zoll Electrodes Pads Paper Gel 4 Sets	1	EA	1	0.15	\$275.00	1	0.15	\$275.00
6505010170338	Dextrose 50% Inj Amp 25S	5	AM	7.25	0.3	\$11.54	36.25	1.5	\$57.70
6505015053476	Diazepam Injection USP 5mg/MI 2 MI Unit 10 Per Package	1	PG	0.55	0.12	\$23.57	0.55	0.12	\$23.57
6505001487177	Diphenhydramine Hydrochloride Inj USP 50mg/MI 1ml Syringe 10/Bx	2	BX	0.25	0.03	\$16.59	0.5	0.06	\$33.18
6505012038623	Dopamine Hydrochloride And Dextrose Injection USP 250ml Bag 12S	1	PG	9	0.6	\$74.71	9	0.6	\$74.71
6505000095063	Doxycycline Hyclate Capsules USP 100mg	1	BT	0.92	0.06	\$28.83	0.92	0.06	\$28.83

Appendix C AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
	500 Capsules Per Bottle								
6505015058467	Enoxaparin Injection 100mg In 1ml Water For Injection 10S	0.5	PG	0.55	0.12	\$555.14	0.275	0.06	\$277.57
6505007341026	Epinephrine Injection USP 1ml Ampul 10S	1	PG	0.25	0.01	\$8.51	0.25	0.01	\$8.51
6505010932384	Epinephrine Injection USP0.1mg Per MI Syringe-Needle Unit10ml 10S	1	PG	1.6	0.14	\$19.83	1.6	0.14	\$19.83
6505012040681	Etomidate 2mg/MI Inj 20 MI Syr-Needle 10S	2	PG	1.35	0.015	\$111.00	2.7	0.03	\$222.00
6505010731316	Fentanyl Citrate Injection USP 5ml Ampul 10S	2	PG	0.33	0.014	\$3.66	0.66	0.028	\$7.32
6505015032390	Fluorescein Sodium Ophthalmic Strips Modified 100S	1	PG	0.55	0.12	\$66.50	0.55	0.12	\$66.50
6505011575117	Furosemide Injection USP 10mg/MI 2ml Ampul 25S	0.2	PG	0.16	0.01	\$6.35	0.032	0.002	\$1.27
6505010222646	Gentamicin Sulf Ophth Sol USP Equiv 3.0mg Gentamicin Per MI 5ml	2	BT	0.05	0.01	\$2.10	0.1	0.02	\$4.20
6505012139514	Gentamicin Sulfate Injection USP 40mg Equiv/MI 2ml Vial 25S	1	PG	0.66	0.02	\$7.09	0.66	0.02	\$7.09
6505002688530	Haloperidol Injection USP 5mg/MI 1ml Ampul 10S	1	PG	0.13	0.02	\$4.94	0.13	0.02	\$4.94
6505012811247	Hetastarch In Sodium Chloride Injection 500ml Bag 12S	2	PG	16	0.5	\$295.14	32	1	\$590.28
6505012149062	Ibuprofen Tablets USP 800 Mg 500 Tablets Per Bottle	1	BT	1.47	1.47	\$14.12	1.47	1.47	\$14.12
6505011533733	Ketamine Hcl Inj 100mg/MI 5ml Vial 10S	10	VI	0.27	0.024	\$88.24	2.7	0.24	\$882.40
PN: 0548-1192-00	Lidocaine Hcl 1% 50mg/5ml Syr/Ndl 25S	1	PG	0.28	0.01	\$30.50	0.28	0.01	\$30.50
6505015225340	Lidocaine Hcl Inj 1mg/MI 5ml 12S	2	PG	0.55	0.12	\$71.77	1.1	0.24	\$143.54
6505014554200	Lidocaine Hydrochloride 1% And Epinephrine 1:100,000 Inj USP 20ml Vial	5	EA	0.55	0.12	\$1.39	2.75	0.6	\$6.95
6505005843131	Lidocaine Hydrochloride Jelly USP 2% 30 MI	1	PG	0.15	0.01	\$7.60	0.15	0.01	\$7.60
6505001538809	Lubricant Surgical 4 Oz (113.4 Gm)	2	TU	0.35	0.02	\$0.65	0.7	0.04	\$1.30

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
6505011253253	Mannitol Injection USP 25% 50ml Single Dose Vials 25 Vials/Pg	2	PG	6.75	0.18	\$25.80	13.5	0.36	\$51.60
6505015054693	Meperidine Hydrochloride Injection USP 100mg/MI 1ml Unit 10/Box	3	PG	0.27	0.01	\$6.97	0.81	0.03	\$20.91
6505014925896	Methylprednisolone Sodium Succinate Inj 125mg 2ml Vi 25S	0.4	PG	0.55	12	\$38.45	0.22	4.8	\$15.38
6505013092742	Metoprolol Tartrate Injection USP 1mg/MI 5ml Ampul 12S	0.5	PG	0.55	0.01	\$52.56	0.275	0.005	\$26.28
6505012395492	Midazolam Hydrochloride Injection 5mg/MI 10ml Vial 10S	2	PG	0.58	0.03	\$67.51	1.16	0.06	\$135.02
6505015055813	Morphine Sulfate Injection USP 10mg/MI 1 MI Unit 10S	8	PG	1.15	0.15	\$7.15	9.2	1.2	\$57.20
6505000797867	Naloxone Hydrochloride Injection USP 0.4mg/MI 1ml Ampul 10S	1	BX	0.12	0.05	\$4.85	0.12	0.05	\$4.85
6505010141378	Neomycin&Polymyxin B Sulfates&Hydrocortisone Otic Sol USP 10ml	1	PG	0.13	0.01	\$1.34	0.13	0.01	\$1.34
6505014860542	Nitroglycerin Lingual Aerosol 0.4mg, 200 Sprays	1	EA	0.12	0.55	\$41.66	0.12	0.55	\$41.66
6505010083401	Nitroglycerin Ointment 2% 60gm Tube	1	TU	0.26	0.01	\$4.47	0.26	0.01	\$4.47
6505001325181	Oxygen USP 99% Cylinder Type D 95gl	6	EA	13	0.3	\$186.87	78	1.8	\$1,121.22
6505013329024	Phenytoin Sodium Inj 50mg/MI Vial 5ml 25S	1	PG	1	0.01	\$4.36	1	0.01	\$4.36
6505004917557	Povidone-Iodine Cleansing Solution USP 7.5% 4 Fl Ounces Or 118ml	20	BT	0.41	0.02	\$1.00	8.2	0.4	\$20.00
6505007540374	Povidone-Iodine Topical Solution 1gl	1	BT	10	0.3	\$8.18	10	0.3	\$8.18
6505012408703	Procainamide Hcl Inj 100mg/MI 10ml 25S	0.1	PG	2.15	0.012	\$14.10	0.215	0.0012	\$1.41
6505006807352	Promethazine Hydrochloride Injection USP 25mg/MI 1ml Ampul 25S	2	BX	0.31	0.02	\$9.70	0.62	0.04	\$19.40
6505014623025	Ringer's Injection Lactated USP 1000ml Bag 12S	8	PG	6.55	0.12	\$11.21	52.4	0.96	\$89.68
6505002165370	Sodium Bicarbonate Inj USP 8.4% Syringe- Needle Unit 50ml 10S	1	PG	4.4	0.3	\$18.24	4.4	0.3	\$18.24

Appendix C AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
6505014622436	Sodium Chloride Injection USP 0.9% 1000 MI Bag 12S	2	PG	0.55	0.12	\$16.82	1.1	0.24	\$33.64
6505013308925	Sodium Chloride Injection USP 0.9% 50ml Bag 84S	0.3	PG	3.15	0.08	\$58.52	0.945	0.024	\$17.56
PN: MAX-100	Sodium Chloride Irrigant System 0.9% 500cc Bt 12s (Irrimax)	2	PG	Unk	Unk	\$117.00	0	0	\$234.00
6505014171254	Succinylcholine Chloride Injection USP 20mg/MI 10ml Vial 25S	5	PG	1.55	0.01	\$11.34	7.75	0.05	\$56.70
6505005607331	Sulfadiazine Silver Cream 1% 400gm Jar	2	JR	1.25	0.05	\$14.54	2.5	0.1	\$29.08
6505005824737	Tetracaine Hydrochloride Ophthalmic Solution 0.5% 15 MI (Jrcab Formulary)	1	BT	0.1	0.005	\$3.39	0.1	0.005	\$3.39
6505006848625	Vasopressin Injection USP 1ml Vial 10S	1	PG	0.12	0.1	\$43.11	0.12	0.1	\$43.11
6505012580983	Vecuronium Bromide For Injection 10 Mg 10ml Vials 10S	1	PG	0.45	0.03	\$142.73	0.45	0.03	\$142.73
6505011313855	Verapamil Hcl Inj 5mg/2ml 2ml Vial 10S	1	PG	0.04	0.002	\$2.15	0.04	0.002	\$2.15
	Medications Total						307.18	19.21	\$ 7,755.35
	Consumables								
6515012453463	Adapter Syringe To Tubing 100S	0.5	PG	0.06	0	\$62.50	0.03	0	\$31.25
6510002036010	Adhesive Tape Surgical 12 Inches By 5 Yards (Note: Moleskin)	1	RO	2.59	0.17	\$19.61	2.59	0.17	\$19.61
6510009268882	Adhesive Tape Surgical Porous Woven 1in X 10yd 12S	1	PG	1.41	0.05	\$14.79	1.41	0.05	\$14.79
6510009268884	Adhesive Tape Surgical Porous Woven 3 Inches By 10 Yards 4S	3	PG	1.2	0.05	\$19.29	3.6	0.15	\$57.87
6515013215211	Airway Kit Percutaneous Emergency Adult Sterile Disposable	2	EA	0.2	0.05	\$305.22	0.4	0.1	\$610.44
6515011676637	Airway Nasopharyngeal Robertazzi Design 30fr Oblique Tip 12S	0.5	PG	3	0.2	\$59.23	1.5	0.1	\$29.62
6515011649637	Airway Pharyngeal 4" Airway/Cut Away Flange 30fr 30S	1	PG	0.11	0.01	\$68.43	0.11	0.01	\$68.43

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
6530011075798	Bag Sterilization-Biohazard Disposal 36x24" .0030" Sgl Wall200	0.5	PG	17	0.44	\$137.23	8.5	0.22	\$68.62
6510005977469	Bandage Adh.75x3" Flesh/Clear Ster Dress Affixed To Plas Adh100S	1	BX	0.26	0.02	\$2.08	0.26	0.02	\$2.08
6515014618338	Bandage Cast Polymer Splinting Material Long Bone 6x45in 5S	3	PG	0.15	0.02	\$117.34	0.45	0.06	\$352.02
6515014618357	Bandage Cast Polymer Splinting Material Whole Arm 4x30in 5S	2	PG	0.15	0.02	\$79.55	0.3	0.04	\$159.10
6510009355822	Bandage Elastic Flesh Rolled 4.5ydx4"Washable Pressure 12S	6	PG	2	0.18	\$9.94	12	1.08	\$59.64
6510009355823	Bandage Elastic Flesh Rolled Nonsterile 6"X 4.5 Yds 12S	2	PG	3.25	0.28	\$21.15	6.5	0.56	\$42.30
6510001055807	Bandage Elastic Rubber Brown 3"X5yds 24S (Note: Coban)	1	PG	6.94	0.13	\$73.01	6.94	0.13	\$73.01
6510015032117	Bandage Gauze Cotton 6 Ply White 4.5" Wide 4.1 Yds Long Vacuum Packed 1S	200	EA	0.55	0.12	\$0.89	110	24	\$178.00
6510015227354	Bandage Gauze Self-Adherent Cotton Elastic Beige 4" Wide 4yd 12S	10	PG	0.55	0.12	\$56.18	5.5	1.2	\$561.80
6510002011755	Bandage Muslin Compressed Brown 37x37x52" Triangular W/Sfty Pins	36	EA	0.13	0.01	\$3.30	4.68	0.36	\$118.80
6530014940126	Basin Emesis Plas Kidney Shaped 9in Lg500 Cc Cap Autoclavable 12S	2	PG	0.55	0.12	\$6.95	1.1	0.24	\$13.90
6135009857845	Battery Nonrecharge Alk AA (Note: Used For Headlamps/Pulse Ox)	5	PG	0.1	0	\$5.44	0.5	0	\$27.20
6135008264798	Battery Nonrecharge Alkaline 1.5 Volt AAA 24S (Note: Used For Oto/Ophthalmoscope)	4	PG	0.08	0	\$3.25	0.32	0	\$13.00
6135008357210	Battery Nonrechargeable 1.5 Volt Cylindrical 12S (Note: For Laryngoscope)	1.5	PG	3.5	0.03	\$8.81	5.25	0.045	\$13.22

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
6510012787002	Benzoin Applicators Impreg 4"Lg Disp 50 Swabs Per Box 10S	0.1	PG	1	0.1	\$14.32	0.1	0.01	\$1.43
6515006600011	Blade Surg Knife Det No.10 Small Tang U/W 3 3l 7 9 Handle Cs 6S	6	PG	0.03	0	\$2.28	0.18	0	\$13.68
6515010095293	Blade Surgical Knife Det No. 15 Small Tang Steel 150S	0.2	PG	1.12	0.05	\$32.04	0.224	0.01	\$6.41
7210009356665	Blanket Casualty Plas Alum Coated 84x56inches Green Taped	50	EA	0.77	0.07	\$10.34	38.5	3.5	\$517.00
6532013875858	Blanket Warming Hypothermia 84x34in Quick Access Panels 20S	1	PG	18	0.03	\$206.00	18	0.03	\$206.00
6515011281407	Blood Recipient Set Indirect Transfusion Y Type Nontoxic 48S	0.5	PG	8	1.4	\$233.93	4	0.7	\$116.97
6515013637700	Board Spinal Folding Heavy Gauge Alum Folded Size 18.50x36x2.75"	2	EA	10	3	\$251.44	20	6	\$502.88
6530013643353	Brush-Sponge Surgical Scrub Dips Nonster 3% Pcmx I.P. 300S	0.33	PG	5	0.18	\$153.72	1.65	0.0594	\$50.73
6515014493193	Canister Collection Suction 1200ml W/Lid Plastic 10S	1.2	PG	0.4	0.4	\$36.00	0.48	0.48	\$43.20
PN: 276-000-010	Cannister Suction W/ Catheters 10s (Vendor: Ambu)	0.2	PG	0.1	0.01	\$99.00	0.02	0.002	\$19.80
6515010726380	Cannula Laryngeal Yankauer Dsgn 72" Lg Clear W/O Cont Vent 20S	2	PG	5.5	0.9	\$94.56	11	1.8	\$189.12
6515013909627	Catheter & Needle Unit 14ga Orange Protectocath Disp 200S	1	PG	5.7	0.03	\$471.04	5.7	0.03	\$471.04
6515013909654	Catheter & Needle Unit 18ga Green Protectocath Disp 200S	0.5	PG	22.5	0.14	\$393.63	11.25	0.07	\$196.82
6515013909650	Catheter & Needle Unit 20ga Pink Protectocath Disp 200S	0.5	PG	23.1	0.14	\$493.00	11.55	0.07	\$246.50
6515012606699	Catheterization Kit Central Venous Two Lumen Sterile 5S	0.12	PG	0.5	0.06	84.32	0.06	0.0072	\$10.12
6515011912011	Catheterization Kit Suprapubic Puncture Stamey 14fr Ster Disp	2	EA	0.75	0.03	\$199.56	1.5	0.06	\$399.12

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
6515001490104	Catheterization Kit Urethral W/Bot-Outlet Drain Bag & 16fr Cath	25	EA	0.71	0.25	\$9.50	17.75	6.25	\$237.50
7920011263250	Cloth Cleaning White 15x12" 900S	1	PG	0.05	0	\$82.50	0.05	0	\$82.50
6630015005298	Connector Edge Assembly Bld Gas Analyzer (Irma Control Consumable)	1	EA	1.75	0.75	\$110.00	1.75	0.75	\$110.00
6515009269201	Connector Tubing Straight A18 Taper Serrations 3.5"Lg .188"Id 50S	0.2	PG	0.65	0.06	\$6.66	0.13	0.012	\$1.33
6515007257843	Connector Tubing Y Branched Serrated 0.188-0.312" 50s (Note: Used To Connect 2 Pleurevacs)	0.1	PG	0.26	0.03	\$47.60	0.026	0.003	\$4.76
6530014604782	Container Sharps Board Fold-Flat 5 Lt 25S	0.25	PG	0.55	0.18	\$49.86	0.1375	0.045	\$12.47
6550015008057	Control Blood Gas Electrolyte Level 1 2.5ml 30s (Irma Control Consumable)	6	AM	0.55	0.11	\$64.75	3.3	0.66	\$388.50
6550015008062	Control Blood Gas Electrolyte Level 2 2.5ml 30s (Irma Control Consumable)	6	AM	0.55	0.12	\$64.75	3.3	0.72	\$388.50
6550015008065	Control Blood Gas Electrolyte Level 3 2.5ml 30s (Irma Control Consumable)	6	AM	0.55	0.12	\$26.74	3.3	0.72	\$160.44
6550015009325	Control Hematocrit & Electrolyte Ampul Co 1.7ml 20S	1	AM	0.55	0.02	\$48.00	0.55	0.02	\$48.00
4020009900988	Cord Fibrous Nylon 550 Pound Breaking Strength 100ft	2	RO	0.5	0.05	\$8.39	1	0.1	\$16.78
6515007777325	Crutch Auxillary 48-59" Lg Wood Varnished Adjustable	2	PR	4.33	0.33	\$35.30	8.66	0.66	\$70.60
6515014661195	Circuit Ventilator Medical Vinyl Disp 6ft Lg 15S	0.54	PG	1.15	0.15	\$80.00	0.621	0.081	\$43.20
6515007777340	Cushion Crutch Sponge Rbbr 8x1.50" 6" Opening Lg 0.688" Medial W	2	PR	0.56	0.03	\$2.68	1.12	0.06	\$5.36
6515014649877	Detector Carbon Dioxide Gas (Pediatric) 24S	0.25	PG	1.15	0.15	\$242.50	0.2875	0.0375	\$60.63
6515013682874	Detector End-Tidal Carbon Dioxide 6S	3	PG	0.06	0	\$9.88	0.18	0	\$29.64

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
6640011079169	Detergent Hospital Glassware & Instrument Powder 4lbs (Note: Alconox)	1	PG	4	0.1	\$17.67	4	0.1	\$17.67
6530014558325	Drainage Unit Pleurevac Auto Transfusion Bag 6S	2	PG	1.25	0.25	\$348.42	2.5	0.5	\$696.84
6515014993126	Drainage Unit Pleurevac W/Blood Retrieval 6S	2	PG	1.8	1	\$279.18	3.6	2	\$558.36
6510014575844	Dressing Burn 8x18in Water Gel 20S	2	PG	7.5	1.56	\$103.00	15	3.12	\$206.00
6515010747601	Electrode Ekg Pregelled Adult 5.1cm Dia 25S	3	PG	0.49	0.017	\$8.79	1.47	0.051	\$26.37
6515013750513	Filter Heat & Moisture Exchanger Anesthesia Ventilator 50s	0.5	PG	0.3	0.2	\$274.39	0.15	0.1	\$137.20
7540006344121	Form Printed Clinical Record-Doctors Orders Std Form 508	1	HD	0.01	0	\$5.40	0.01	0	\$5.40
7540006344122	Form Printed Clinical Record-Doctor's Progress Notes 10.5x8" 100S	1	PG	0.01	0	\$2.18	0.01	0	\$2.18
6510002020800	Gauze Petrolatum Step Back Accordion White 18x3" 12S	2	PG	0.44	0.02	\$8.54	0.88	0.04	\$17.08
6515012317249	Gel Transmission Ultrasound 0.25li Dispenser 8.5oz Capacity 12S	0.3	PG	1.4	0.15	31.84	0.42	0.045	\$9.55
6515014457907	Glove Patient Exam Sz Lrg Nitrile Disp Ster Ambid 1000S	4	PG	15	3	\$90.00	60	12	\$360.00
6515015196343	Gloves Surgeons Latex & Powder Free Sz 7 Ster 50S	1	PG	5	0.13	\$142.49	5	0.13	\$142.49
6515015196348	Gloves Surgeons Latex & Powder Free Sz 7.5 Ster 50S	1	PG	5	0.13	\$142.49	5	0.13	\$142.49
6515015196347	Gloves Surgeons Latex & Powder Free Sz 8 1/2 Ster 50S	1	PG	5	0.13	\$142.49	5	0.13	\$142.49
6540012901157	Goggles Protective Infection Distortion-Free Lenses Adj 100S	0.1	PG	4.5	0.01	\$153.72	0.45	0.001	\$15.37
6515014530960	Infusion Set Fluid Intraosseous F.A.S.T. 1S	3	EA	0.2	0.02	\$95.00	0.6	0.06	\$285.00
6515015007654	Intravenous Exchange Set 7.0fr Id Cath 2.0in Lg Radpq Disp 25S	0.48	PG	2	0.03	\$245.00	0.96	0.0144	\$117.60

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
6515012767970	Intravenous Exchange Set 8.5fr Id Cath 2.50" Lg Radpq Disp 25S	0.48	PG	2	0.03	\$245.00	0.96	0.0144	\$117.60
6515011050614	Intravenous Injection Set 12 Components Nonvented Ster Disp 50S (Note: Needleless Sys)	2	PG	0.13	0.03	\$80.33	0.26	0.06	\$160.66
6550015009957	Linearity Verification 5 Test Levels 4 2.5ml Ampules P/Lever 4S (Irma Control Consumable)	1	PG	2.25	0.25	\$112.20	2.25	0.25	\$112.20
8405008893683	Liner Wet Weather Poncho	50	EA	1.44	0.05	\$26.40	72	2.5	\$1,320.00
6515013716467	Mask Oxygen Oronasal Non-Rebreathing W/7ft Tubing 50S	0.7	PG	1.7	9.7	\$59.29	1.19	6.79	\$41.50
6515007822621	Mask Surgical Fabric Glass Or Syn Fiber Filter Disp50S	1	PG	1.25	0.21	\$5.51	1.25	0.21	\$5.51
6515007542834	Needle Hypo C13a Gp 18ga 1.438-1.562" Lg Luer Lock Reg Ster 100S	1	PG	0.66	0.04	\$6.63	0.66	0.04	\$6.63
6515011738882	Needle Hypo C17 Iv 18gx1.50" Luer Tip 5 Micron Filter Disp 100S	1	PG	0.5	0.05	24.92	0.5	0.05	\$24.92
6515011727650	Needle Hypodermic Gp 22ga 1.50" Lg Luer Lock Plastic Hub Ster 100S	1	PG	0.48	0.5	\$4.36	0.48	0.5	\$4.36
6510007755706	Pad Abdominal 7.5x8" White 3layers Ster Post Op 240S	0.42	PG	15	3.2	\$44.48	6.3	1.344	\$18.68
6510007755706	Pad Abdominal 7.5x8" White 3layers Ster Seal Pkg Post Op 240S	0.5	PG	15	3.2	\$44.48	7.5	1.6	\$22.24
6510007863736	Pad Isopropyl Alcohol Impregnated Nonwvn Cotton/Rayon1.5 X 2in 100S	4	PG	0.5	0.1	\$1.73	2	0.4	\$6.92
6640015009567	Paper Irma Chem Analyzer Recording	3	BX	1.15	0.15	\$17.00	3.45	0.45	\$51.00
6515013225898	Razor Surg Preparation Plas Stationary Dsgn Solid Hdl Disp 100S	0.25	PG	0.01	0	\$27.54	0.0025	0	\$6.89
6515012538165	Shield Eye Surgical Goffman Alum 50S	0.2	PG	0.4	0.01	\$53.50	0.08	0.002	\$10.70
6515015261175	Sling Pelvic Orthotic Device, T-Pod Olive Drab	2	EA	0.7	0.11	\$140.43	1.4	0.22	\$280.86

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
PN: 80138-01	Solution Control High/Normal/Low Glucose Use W/ Pn: 98714-03 3S (Manf: Abbott Labs)	0.33	PG	0.05	0.01	\$5.72	0.0165	0.0033	\$1.89
6515014854041	Splint Finger Phalange 18x.75" Either Hand May Be Cut & Bent 12S	1	PG	0.92	0.06	\$14.35	0.92	0.06	\$14.35
6515014941951	Splint Structural Aluminum Malleable 4.5"X36" Gray 12S	24	PG	0.22	0.08	\$100.00	5.28	1.92	\$2,400.00
PN: 3968	Sponge Gauze 4" X 4" 8 Ply 10/Po 10/Bx 16 Bx 1600S	0.75	PG	19	3.1	139.74	14.25	2.325	\$104.81
6510007822698	Sponge Surg Gauze Abs White 4x4"8-Ply Nonster 200S	3	PG	0.83	0.07	\$3.60	2.49	0.21	\$10.80
6510007822699	Sponge Surgical Gauze Compressed 8x4" White Nonsterile 200S	4	PG	2.4	0.21	\$22.31	9.6	0.84	\$89.24
6515011104797	Stapler Surgical 15 Units Cap 6.9x3.9mm Plas Ster 6S	1	PG	1.2	0.1	\$225.31	1.2	0.1	\$225.31
PN: 80063-01	Strips Test Glucose Monitor Use W/ Pn: 98714-03 100S (Manf: Abbott Labs)	1	PG	0.02	0.01	\$34.82	0.02	0.01	\$34.82
6515013948327	Styilet Tracheal Tube 7.5mm To 10mm 10S	1	PG	2.1	0.02	\$43.62	2.1	0.02	\$43.62
6515011676666	Suction Set Tracheal 14fr 22in Ster 100S	0.25	PG	4	0.1	\$56.00	1	0.025	\$14.00
6515014663004	Support Cervical Collar Adj Sizes 1-16 30S	0.5	PG	0.015	0.65	\$363.60	0.0075	0.325	\$181.80
6515012317236	Suture Abs Gi Sz 4-0 Lg Ndl Sh-1 Coated Vicryl Braided Order By 3S	3	PG	0.48	0.06	\$78.10	1.44	0.18	\$234.30
6515010381186	Suture Nonabs Sz 0 3 24" Strands Ndl Xlh 12S	2	PG	0.78	0.06	\$29.78	1.56	0.12	\$59.56
6515007344342	Suture Nonabs Sz 4-0 1 18" Strand C3 Rvs Cutting Edge Nylon 36S	2	PG	0.73	0.04	\$74.96	1.46	0.08	\$149.92
6515014587025	Syringe And Needle Unit 10cc & 21ga Vanish Point 100S	1	PG	5	0.5	\$40.00	5	0.5	\$40.00
6515007540412	Syringe Hypo Gp 10ml Luer Slip W/O Ndl 100S	1	PG	5.8	0.57	\$40.00	5.8	0.57	\$40.00
6515014123101	Syringe Hypodermic General Purpose 20cu Cm Capacity Disp Ster 25S	2	PG	1.2	0.01	\$7.86	2.4	0.02	\$15.72
6515015009382	Syringe Irrigating 60 Mil Cap Ster Disp 160S	0.14	PG	0.75	0.05	\$210.00	0.105	0.007	\$29.40

Appendix C

AMAL 632 STP Consumables

NSN	NOMENCLATURE	QTY	UI	UW	UC	\$	TOT_W	TOT_C	TOT_\$
8465013376792	Tag Id Personnel Cardboard 8.1x4" Field Triage 200S	0.5	PG	0.2	0.4	\$38.98	0.1	0.2	\$19.49
6515010133911	Tip Cane And Crutch 0.75" Diameter 3" High Corrugated Rubber 12S	1	PG	2.28	0.1	\$23.95	2.28	0.1	\$23.95
6530013080984	Tray Skin Prep 20S	1	PG	0.75	0.05	\$62.40	0.75	0.05	\$62.40
6515008669073	Tube Drainage Surgical C18 Thoracic 36fr Str 6 Eye Ster Disp 10S	2	PG	1.54	0.1	\$17.14	3.08	0.2	\$34.28
6515011885316	Tube Drainage Surgical Penrose 1x18" Rubber Ster 200S	0.25	PG	3.44	0.02	\$69.44	0.86	0.005	\$17.36
6515009171912	Tube Nasogastric Sump Marked At 18,22,26,30" Dbl Lumen W/Fun 50S	0.5	PG	5	0.7	\$113.00	2.5	0.35	\$56.50
6515001050759	Tube Tracheal Murphy E12 W/Cuff 8.0mm Id 10.7mm Dia 32cm Lg 10S	1	PG	1	0.05	\$32.97	1	0.05	\$32.97
6515010369034	Tube Tracheal Radiopaque Murphy Disp 7.5mm Id 9.3mm Od 32cmlg10S	1	PG	1.2	0.26	\$22.95	1.2	0.26	\$22.95
6515014792442	Warmer Blood Fluid High Flow 6k-30k MI/Hr 10S	4	PG	1.8	0.03	\$129.00	7.2	0.12	\$516.00
	Consumables Total						557.26	80.97	\$16,353.88
	Combined Totals						864.45	100.19	\$24,109.23

Appendix D:
AMAL 645 FRSS Equipment and Consumables

Appendix D

AMAL 645 Equipment and Consumables

Equipment

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6630015008737	Analyzer Blood Philips Irma W/Ac Adapter - W/O Rechargeable Batteries And Charger	1	EA	45	1.15	\$6,230.00	45	1.15	\$6,230.00
6530015216982	Bag Anesthesia Compartmentalized Hanging	2	EA	1.25	0.25	\$221.94	2.5	0.5	\$443.88
6530015216970	Bag Anesthesia Patient Compartmentalized Hanging	2	EA	1.25	0.25	\$228.72	2.5	0.5	\$457.44
6530015216952	Bag Or Ironduck	6	EA	0.55	0.11	\$249.44	3.3	0.66	\$1,496.64
6530015216961	Bag Or Patient Ironduck	6	EA	1.25	0.25	\$257.37	7.5	1.5	\$1,544.22
6530015216966	Bag Or Staple Ironduck	6	EA	1.25	0.25	\$220.51	7.5	1.5	\$1,323.06
6530015216964	Bag Or Suture Ironduck	6	EA	1.25	0.25	\$219.18	7.5	1.5	\$1,315.08
6530015216973	Bag Or Team Prep Ironduck	6	EA	1.25	0.25	\$222.09	7.5	1.5	\$1,332.54
6530015216978	Bag Post-Op Compartmentalized Hanging	2	EA	1.25	0.25	\$240.31	2.5	0.5	\$480.62
6530015216979	Bag Post-Op Patient Compartmentalized Hanging	6	EA	1.25	0.25	\$249.54	7.5	1.5	\$1,497.24
6530015216974	Bag Pre-Op Compartmentalized Hanging	6	EA	1.25	0.25	\$249.33	7.5	1.5	\$1,495.98
6530015216975	Bag Pre-Op Patient Compartmentalized Hanging	18	EA	1.25	0.25	\$257.69	22.5	4.5	\$4,638.42
6530014212238	Basket Stack Perf Full Length 20-1/2x10-1/2x4in	3	EA	2	0.03	\$114.18	6	0.09	\$342.54
6530015099681	Basket Stack Perf Quarter Length 11x7x2in W/Short Handle	4	EA	2.25	0.25	\$80.28	9	1	\$321.12
6525014983603	Battery Lithium Rechargeable Ultrasound	1	EA	0.25	0.17	\$331.00	0.25	0.17	\$331.00
6530014617882	Bedpan Pontoon-Type Stackable Autoclavable	2	EA	1.15	0.03	\$32.20	2.3	0.06	\$64.40
6515003634150	Blade Finger Ring Saw .018" Thick .75" Diameter 90 Teeth Steel	1	EA	0.01	0	\$10.37	0.01	0	\$10.37
7530002223521	Book Record 5 1/2" X 8"	2	EA	0.35	0.1	\$1.74	0.7	0.2	\$3.48
6530015050207	Booster Rix Micro With Cylinder Manifold	1	EA	80	1.5	\$6,000.00	80	1.5	\$6,000.00
6530015085721	Boot Connector Base-X, End To End	1	EA	10	2	\$350.00	10	2	\$350.00
6530015085678	Boot Connector Base-X, Side To Side	2	EA	10	2	\$535.00	20	4	\$1,070.00
6515005152113	Brace Bit Bone Hudson 9.75" Lg Snap Lock Pasivated	1	EA	1.5	0.05	\$194.30	1.5	0.05	\$194.30
PN: LF-GP	Bronchoscope Intubation Flexible Fiberoptic (Vendor: Olympus)	1	EA	1	0.1	\$5,000	1	0.1	\$5,000
PN: MAJ-922	Bronchoscope Light Source Power Unit Aa Adapter (Vendor: Olympus)	1	EA			\$995.00			\$995.00
6515003124125	Burr Cranial Hudson 14mm Dia 3.812"Lg 6 Flute Truncated Cone	1	EA	0.24	0.01	\$27.46	0.24	0.01	\$27.46
6515005152115	Burr Cranial Hudson 16mm Dia 3.812"Lg 6 Ball Head 8 Flute	1	EA	0.17	0.02	\$22.81	0.17	0.02	\$22.81

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6515005152114	Burr Cranial Hudson 9mm Dia 4.094"Lg Flame Head 6 Flute	1	EA	0.22	0.02	\$65.86	0.22	0.02	\$65.86
6150001440091	Cable Assembly Power 12' 3 Connector End (Ext Cord)	10	EA	2.4	0.13	\$12.85	24	1.3	\$128.50
7240013375268	Can, Fuel, Military	4	EA	0.68	0.12	\$22.71	2.72	0.48	\$90.84
7240000893827	Can, Water, Military, 5gal	17	EA	0.1	0	\$14.17	1.7	0	\$240.89
6515003866800	Cannula Brain Frazier 8 French 7.5"Lg Open End Tip Crs	5	EA	0.13	0	\$15.85	0.65	0	\$79.25
6515011398258	Cannula Suct Surg Frazier 11fr 7.5in W/Stylet	1	EA	0.01	0	\$30.75	0.01	0	\$30.75
6515014516279	Case Drug Mini-Tek Lf	1	EA	3	1	\$273.40	3	1	\$273.40
6545009143470	Chest, Medical Instrument & Supply Set, Field No. 2	2	EA	21	2.4	\$392.62	42	4.8	\$785.24
6545009143480	Chest, Medical Instrument & Supply Set, Field No. 3	17	EA	25	3.6	\$404.13	425	61.2	\$6,870.21
6545009143500	Chest, Medical Instrument & Supply Set, Field No. 5	6	EA	33	6	\$593.10	198	36	\$3,558.60
6545009143510	Chest, Medical Instrument & Supply Set, Field No. 6	6	EA	40	7.5	\$318.99	240	45	\$1,913.94
6515006903212	Clamp Artery Debakey-Bahnsen Curved & Serrated 10in	6	EA	0.5	0.06	\$198.21	3	0.36	\$1,189.26
6515008901682	Clamp Artery Glover 6.5cm Lg Curved Serrated 27mm Jaw Lg	12	EA	0.06	0.01	\$39.09	0.72	0.12	\$469.08
6515008901683	Clamp Vena Cava Satinsky Serrated Ratch-Pawl 10"Lg Large Crs	3	EA	0.64	0.094	\$192.78	1.92	0.28	\$578.34
6530015009583	Container Vented Top Full Length 7"	3	EA	12	1.12	\$299.80	36	3.36	\$899.40
6530015039390	Container Vented Top Quarter Size 4" Hg Green	1	EA	3.75	1.02	\$472.22	3.75	1.02	\$472.22
6530015039389	Container Vented Top Quarter Size 4" Hg Red (Extremity Set)	3	EA	3.75	1.02	\$472.00	11.25	3.06	\$1,416.00
6515003208500	Contractor Rib Bailey Design Double Rake Type Crs	3	EA	0.5	0.03	\$51.63	1.5	0.09	\$154.89
6515014133564	Cord Bipolar Forceps Handswitch	2	EA	0.15	0.07	\$63.60	0.3	0.14	\$127.20
6515014631764	Cuff Set Sphygmomanometer Non Invasive Reusable Sz Lg, Sm Adult And Thigh For Propaq	2	SE	3	0.75	\$96.90	6	1.5	\$193.80
6515010606800	Dissector Gen Surg No. 1 Penfield Dsgn 7.0in	1	EA	0.01	0	\$33.35	0.01	0	\$33.35
6515010606801	Dissector Gen Surg No. 3 Penfield Dsgn 7.7in	1	EA	0.01	0	\$48.98	0.01	0	\$48.98
6515010606802	Dissector Gen Surg No. 4 Penfield Dsgn 8.5in	1	EA	0.01	0	\$55.65	0.01	0	\$55.65
6530015113580	Divider Shelter Base-X	1	EA	25	2.25	\$570.00	25	2.25	\$570.00
6515005152116	Drill Flat Cranial 4x0.375" In Cushing Design	1	EA	0.18	0.03	\$97.75	0.18	0.03	\$97.75
6515011398243	Drill Twist Bone D'errico 98mm Lg 16mm Dia	1	EA	0.01	0	\$101.23	0.01	0	\$101.23

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
651500000069	Electrosurgical Apparatus Mobile 115v 50/60hz Ac Surgi Stat li	1	EA	23	2	\$3,855.58	23	2	\$3,855.58
6515003276600	Elevator Nasal Freer Design 7.50in	4	EA	0.09	0	\$11.84	0.36	0	\$47.36
6515003280700	Elevator Periosteal 7.75" Lg Curved Blade .625" Blade Width	4	EA	0.2	0.01	\$10.95	0.8	0.04	\$43.80
4210002704512	Extinguisher Fire Carbon Dioxide 5lb	2	EA	15	0.75	\$79.30	30	1.5	\$158.60
6515011410809	File Bone 1/2 X 3 1/2" Blade 9" Lg	3	EA	0.1	0.01	\$137.72	0.3	0.03	\$413.16
6515003669200	Forceps Bone Cutting Bethune 13.5" Lg Cupped Screw Lock	3	EA	1.72	0.06	\$402.66	5.16	0.18	\$1,207.98
6515003333700	Forceps Dressing 10" Lg Straight & Serrated Rd Tip Hesavy Mdl Crs	3	EA	0.42	0.01	\$9.75	1.26	0.03	\$29.25
6515003332400	Forceps Dressing Adson 7.125" Lg Bayonet Straight & Serrated Sharp Pt	1	EA	0.07	0	\$68.19	0.07	0	\$68.19
6515003333100	Forceps Dressing Cushing 7" Lg Str & Serrated Rd Tip Slender Mdl	1	EA	0.07	0	\$38.63	0.07	0	\$38.63
6515013205613	Forceps Dressing Gerald Dsgn 7"Lg Crs Delicate Tweezer Type Serr	6	EA	0.15	0.001	27.77	0.9	0.006	166.62
6515003341400	Forceps Gall Duct Lahey Design 7.5"Lg Crs Box Lock Joint	6	EA	0.3	0.3	\$10.14	1.8	1.8	\$60.84
6515003373900	Forceps Gauze Pad Holding Foerster 9-9.75" Lg Box Lock	6	EA	0.23	0.01	\$17.32	1.38	0.06	\$103.92
6515015069092	Forceps Gerald Bayonet 7-1/2" Lg .7 Mm Tip	1	EA	0.12	0.06	308.23	0.12	0.06	\$308.23
6515003344900	Forceps Hemo Halsted Design 4.75-5.25" Lg Slightly Crvd Serr Crs	22	EA	0.1	0.01	\$18.09	2.2	0.22	\$397.98
6515003343800	Forceps Hemo Kelly 5.25-5.75" Lg Slight Curved Jaw Str Hdl	44	EA	0.15	0.01	\$4.55	6.6	0.44	\$200.20
6515003344100	Forceps Hemo Mayo-Carmalt 7.750 Min 8.250 Max O/A Lg Crs	6	EA	0.29	0.02	\$21.49	1.74	0.12	\$128.94
6515000653181	Forceps Hemo Mixer Half-Curved 6.87-7.375"Lg 1.625-1.875"Jaw	6	EA	0.09	0.01	\$23.48	0.54	0.06	\$140.88
6515003349500	Forceps Hemo Pean Design Slightly Curved Jaw 9" O/A Crs	6	EA	0.35	0.35	\$12.88	2.1	2.1	\$77.28
6515003347400	Forceps Hemo Rochester-Ochsner 1.5 - 1.75" Str Jaw 6.25-6.75" Lg	6	EA	0.19	0.01	\$14.00	1.14	0.06	\$84.00
6515003347500	Forceps Hemo Rochester-Ochsner 1.875" Jaw Lg Str 7.25"O/A Lg Sz 2	6	EA	0.3	0.01	\$17.44	1.8	0.06	\$104.64
6515003344300	Forceps Hemo Rochester-Pean 6 - 6.5"0 Lg 1.875" Jaw Lg Qtr-Crvd	36	EA	0.21	0.01	\$13.99	7.56	0.36	\$503.64
6515003382900	Forceps Hemo Schmidt Dsgn 7.25" Lg Curved Serrated Jaw Tonsil	12	EA	0.19	0.19	\$23.99	2.28	2.28	\$287.88
6515003345600	Forceps Hemostat Halsted Mosquito Pt 5in Lg	4	EA	0.11	0.01	\$6.27	0.44	0.04	\$25.08
6515003326200	Forceps Hemostatic Clip Rainey Pivoted 6.5" Lg Applying Crs	1	EA	0.52	0.03	\$66.73	0.52	0.03	\$66.73
6515010489066	Forceps Hemostatic Storz Dsgn Right Angle Jaw 8.75" Lg 52mm Jaw Lg Crs	6	EA	0.19	0.01	\$81.95	1.14	0.06	\$491.70

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6515011398167	Forceps Intestinal Angular Glassman Non-Crushing 9"Lg	6	EA	0.01	0	\$164.95	0.06	0	\$989.70
6515003352900	Forceps Intestinal Babcock Design 7.750" Lg Str Box Lock Crs	12	EA	0.18	0.01	\$17.06	2.16	0.12	\$204.72
6515003355800	Forceps Kidney Pedicle Guyon-Pean 9.25 - 9.50" O/A Lg Box Lock Crs	6	EA	0.31	0.03	\$163.02	1.86	0.18	\$978.12
6515003359100	Forceps Lung Grasping Collin Design Triang Jaw 8" Lg	6	EA	0.33	0.05	\$133.85	1.98	0.3	\$803.10
6515015068671	Forceps Mixer Right Angle 11in	3	EA	0.12	0.07	\$68.20	0.36	0.21	\$204.60
6515015009537	Forceps Shallcross Cystic Duct 8"	4	EA	0.12	0.05	\$73.73	0.48	0.2	\$294.92
6515003379900	Forceps Tissue 5.5" Lg Tweezer Straight & Smooth Jaw Rd Tip	6	EA	0.1	0.1	\$5.81	0.6	0.6	\$34.86
6515003377800	Forceps Tissue Adson 4.50" Lg Tweezer Straight & Smooth Jaw Crs	11	EA	0.08	0.01	\$51.96	0.88	0.11	\$571.56
6515003380300	Forceps Tissue Allis Dsgn 6"Lg Pivoted Str & Smooth Jaw	14	EA	0.13	0.01	\$39.80	1.82	0.14	\$557.20
6515006903208	Forceps Tissue Debakey 7.75" Lg Tweezer Str & Serrated Jaw	12	EA	0.19	0.02	\$17.60	2.28	0.24	\$211.20
6515006903209	Forceps Tissue Debakey 9.5" Lg Tweezer Str & Serrate Jaw	6	EA	0.31	0.04	\$27.63	1.86	0.24	\$165.78
6515012983857	Forceps Tissue Ferris-Smith Tweezer 7"Lg W/1x2 Teeth	3	EA	0.25	0.01	\$49.55	0.75	0.03	\$148.65
6515013155371	Forceps Tissue Gerald Str Jaw Str Tip Nondet 1.3mm Tip 7" Lg Crs	6	EA	0.15	0.001	20	0.9	0.006	120
6515003204600	Forceps Towel Backhaus 5.25" Lg Opposed Prongs Towel Clamp	40	EA	0.25	0.02	\$17.51	10	0.8	\$700.40
6515003323300	Forceps Tracheal Tube Magill Fenestrated & Serr Adl W/O Light	1	EA	0.65	0.05	\$9.01	0.65	0.05	\$9.01
PN: M678541202 (6130NCM03586)	Frss Power Distribution System (Turtle)	2	EA	55	0.66	\$1,317.89	110	1.32	\$2,635.78
6530015008337	Generator Oxygen Low Flow 10lpm	2	EA	70	13.5	\$25,000.00	140	27	\$50,000.00
6115012853012	Generator Power Tactical Skid Mtd 3kw 60hz	2	EA	326	14.83	\$9,205.00	652	29.66	\$18,410.00
5120002514489	Hammer Hand Sledge 8 Lbs Double Faced	1	EA	8	0	\$17.63	8	0	\$17.63
5120010131676	Hammer Slide Grounding Rod	1	EA	1.25	0.25	\$70.57	1.25	0.25	\$70.57
6515003632400	Handle Bone Cutting Wire Saw Rectangular W/Rounded Ends	7	PR	0.13	0.01	\$21.96	0.91	0.07	\$153.72
6515011417469	Handle Surgical Knife Detach Blade Sz 3l U/W No. 10, 11, 12, 15	3	EA	0.13	0.02	\$14.29	0.39	0.06	\$42.87
6515003447800	Handle Surgical Knife Detachable Blade Size 3	14	EA	0.08	0	\$10.05	1.12	0	\$140.70
PN: 69E6LG	Harness Electrical 8 Outlet 25ft (Vendor: Base-X)	4	EA	2	0.02	165	8	0.08	\$660.00
6515015013063	Holder Endotracheal Non-Ster Adult Harness/Velcro Strap	3	EA	0.1	0.1	\$3.65	0.3	0.3	\$10.95
6515011205013	Holder Suture Needle Castroviejo 5.50" Lg Passivated Lock Joint	6	EA	0.2	0.006	67.27	1.2	0.036	403.62

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6515003417200	Holder Suture Needle Collier 5" Lg Straight Jaw Box Lock Crs	10	EA	0.16	0.01	\$7.04	1.6	0.1	\$70.40
6515006903198	Holder Suture Needle Debakey 7" Lg Serrated Tungsten Carb Jaws	1	EA	0.01	0.01	\$50.26	0.01	0.01	\$50.26
6515006903200	Holder Suture Needle Debakey 9" Lg Serrated Tungstenjaws	6	EA	0.31	0.02	\$103.10	1.86	0.12	\$618.60
6515002998737	Holder Suture Needle Hegar-Mayo 7" Lg Serrated Tungsten	13	EA	0.22	0.01	\$22.95	2.86	0.13	\$298.35
6515003421400	Hook Brain Dissecting Adson 90 Degree 8in Lg Blunt	1	EA	0.23	0.01	\$23.07	0.23	0.01	\$23.07
PN: NL2440	Hook Frazier Dural Sharp 6in Hollow Handle	1	EA	0.23	0.01	\$44.49	0.23	0.01	\$44.49
6515014946880	Infusor Pressure Blood Iv Bag 12s	1	PG	0.1	0.1	\$277.10	0.1	0.1	\$277.10
6515013448487	Injector Tube Plas Accom 1ml & 2ml Med Needle Cart Unit	5	EA	0.11	0.07	\$4.31	0.55	0.35	\$21.55
6515010457158	Knife Sternum Lebsche Dsgn 10" Lg Passivated Nonglare Finish Crs	3	EA	0.5	0.06	\$68.68	1.5	0.18	\$206.04
6515014553888	Lantern Elec Head Mount Halogen & Krypton Bulb	4	EA	0.55	0.12	\$23.00	2.2	0.48	\$92.00
6515006165052	Laryngoscope Macintosh Child/Adult 4 Blade (D Batt)	4	EA	3.96	0.16	\$55.50	15.84	0.64	\$222.00
6230015203474	Light Head General Purpose 8ft Cord Ac/Batt Power	2	EA	2.75	0.18	754.53	5.5	0.36	1509.06
6530015085725	Light, Single Strand 25w 120v 54" Lg W/ Blue Cover	8	EA	8	1.5	\$215.00	64	12	\$1,720.00
6530014325114	Litter Evacuation Raven Portable Compact Lightweight	8	EA	11	0.02	\$255.00	88	0.16	\$2,040.00
6515012340253	Mallet Bone Surgery Crs 7.5-11"Lg 3.125" Head Lg 2 Pounds	3	EA	2	0.04	\$165.08	6	0.12	\$495.24
6515014196393	Mask Airway Laryngeal Reusable Silicone Siz3 4 19cm	1	EA	1	0.35	\$241.56	1	0.35	\$241.56
6515014626273	Mask, Regulator	5	EA	0.25	0.02	\$7.20	1.25	0.1	\$36.00
6515015022117	Monitor Anesthetic Agent Portable U/W 6515014354305	1	EA	10.5	1.8	\$8,375.00	10.5	1.8	\$8,375.00
6515014409394	Monitor Oxygen Portable Powered By 9v Ac Battery	3	EA	1.55	0.02	\$581.85	4.65	0.06	\$1,745.55
6515015009035	Monitor Patient Vital Signs Model 206 Ekg Spo2 Nibp Temp Co2 8x5x4in Battery/Cord	5	EA	12	1.12	\$8,150.00	60	5.6	\$40,750.00
6515014586178	Otoscope And Ophthalmoscope Set Deluxe W/Speculums, Cobalt Blue Lens & Softcase	2	SE	5.55	0.11	\$280.00	11.1	0.22	\$560.00
6505012556805	Oxygen USP 99% Cylinder Type D 95gl Aluminum 400 Liters	6	EA	5.15	0.23	\$86.74	30.9	1.38	\$520.44
7240014643773	Pail Utility Plastic 10in High 14qt Capacity 6s	1	PG	0.55	0.02	\$149.16	0.55	0.02	\$149.16
6530014636823	Blanket Patient Warming Sys (Bair Hugger 505)	2	EA	11.5	1.15	\$1,418.77	23	2.3	\$2,837.54

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
7210002998520	Pillow Pneumatic Cotton Rubber Khaki Or Olive Drab 16.5x13inches	5	EA	0.83	0.03	\$2.62	4.15	0.15	\$13.10
6515011190018	Probe Gen Oper 5" Lg .062" Dia Spatulate Handle Bulbous Tip	3	EA	0.36	0.05	\$3.89	1.08	0.15	\$11.67
6515014964213	Pump Intravenous Infusion Autosyringe Dc 110v 50/60hz	1	EA	4.9	0.37	\$2,250.00	4.9	0.37	\$2,250.00
4110014512356	Refrigerator, Solid State, Bio	2	EA	70	2.5	\$7,100.00	140	5	\$14,200.00
6530015186437	Regulator Oxygen Gas Admin Lsp Rhino	6	EA	2.25	0.25	\$193.60	13.5	1.5	\$1,161.60
6515012045394	Resuscitator Hand Operated Sm Med & Adl Masks W/Case	3	EA	1.2	0.02	\$151.50	3.6	0.06	\$454.50
6515011398969	Retractor Abdominal Codman-Shurtleff Sz 2.50x3.25" Two Blade	3	EA	3.5	0.45	\$171.45	10.5	1.35	\$514.35
6515003603530	Retractor Abdominal Deaver Design 2x12" Size Crs	3	EA	0.72	0.07	\$50.06	2.16	0.21	\$150.18
6515003603510	Retractor Abdominal Deaver Design Crs 1.5x12" Size	3	EA	0.69	0.07	\$27.54	2.07	0.21	\$82.62
6515011398196	Retractor Gen Oper Harrington 13x2.25" Crvd Right Passivated	3	EA	0.01	0	\$87.98	0.03	0	\$263.94
6515014587927	Retractor General Purpose 1.5 X 13in	6	EA	0.55	0.012	12.8	3.3	0.07	\$76.80
6515014587921	Retractor General Purpose 2 X 13in	6	EA	0.55	0.012	12.8	3.3	0.07	\$76.80
6515009269193	Retractor Mastoid Weitlaner 6.5" Hook Unit Type 3 Vs 4 Prongs	13	EA	0.31	0.01	\$48.21	4.03	0.13	\$626.73
6515013325024	Retractor Perineal Gelpi 7.250" Lg	2	EA	0.16	0.1	\$79.58	0.32	0.2	\$159.16
6515011346649	Retractor Rib Buford-Finocchieto Design Fenestrated	3	EA	5.47	0.6	\$622.05	16.41	1.8	\$1,866.15
6515003603850	Retractor Set Abdominal Richardson-Eastman Double End	3	SE	0.81	0.14	\$26.78	2.43	0.42	\$80.34
6515003609200	Retractor Set General Operating Double End 8.5 & 8.75" Blades	6	SE	0.43	0.03	\$42.28	2.58	0.18	\$253.68
6515003618980	Retractor Tracheal Hupp Sharp Point 3 Prong Qty	6	EA	0.13	0.01	\$5.97	0.78	0.06	\$35.82
6515003620200	Retractor Vein Cushing Design 8.5"	13	EA	0.24	0.01	\$21.65	3.12	0.13	\$281.45
6515011398240	Rongeur Kerrison Design 5mm Upbite19.1cm	1	EA	0.01	0	\$280.79	0.01	0	\$280.79
6515010895666	Rongeur Leksell Curved 8mm Size 9.75" Lg Dbl-Acting Passivated	1	EA	1.78	0.06	\$104.86	1.78	0.06	\$104.86
6515003634100	Saw Finger Ring .75"Blade Dia 6"Lg 0.1875" Arbor Hole Diameter	1	EA	0.25	0.01	\$20.47	0.25	0.01	\$20.47
6515009357138	Scissors Bandage .25 Lg Ang To Hdl 1.50" Cut Lg Blunt Pts	6	EA	0.19	0.01	\$0.79	1.14	0.06	\$4.74
6515003640520	Scissors Gen Surg Mayo Crvd Blade 6.50 - 7" Lg Blade Blunt	10	EA	0.08	0	\$20.54	0.8	0	\$205.40
6515003640920	Scissors Gen Surg Mayo Dsgn 6.50-7" Lg Blunt Pts 1.626" Cut Lg	4	EA	0.35	0.01	\$18.97	1.4	0.04	\$75.88
6515006903223	Scissors Gen Surg Potts Smith 7.50" Lg Ang To Hdl 60deg Blunt Pt	3	EA	0.14	0.007	48.82	0.42	0.021	146.46

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6515010895668	Scissors Surg Metzenbaum Delicate Dissecting 11" Lg Crvd	3	EA	0.46	0.02	\$50.68	1.38	0.06	\$152.04
6515003656200	Scissors Tenotomy Stevens 4 - 4.50" O/A Lg Crvd Blade Blunt Points	3	EA	0.06	0	\$27.54	0.18	0	\$82.62
6515003657100	Scissors Tonsil Metzenbaum 7" O/A Lg Crvd Blade Blunt	10	EA	0.16	0.01	\$11.47	1.6	0.1	\$114.70
6530015085638	Shelter Base-X 305 Upgrade 18' X 25' (Order By Part No For Tan Or Od)	2	EA	70	10	\$12,985.00	140	20	\$25,970.00
6530014296715	Sink Unit Surgical Scrub And Utensil Hospital Field: 110v 60c Ac	1	EA	37.75	1.32	\$946.94	37.75	1.32	946.94
6515011398247	Spatula Brain Davis Malleable 7x0.50in	1	EA	0.01	0	\$25.85	0.01	0	\$25.85
6515011398249	Spatula Brain Davis Style 7inx.75in Malleable	1	EA	0.06	0	\$20.49	0.06	0	\$20.49
6515011397550	Speculum Rectal Pratt 850." Lg 3.50 X 1.75" Blade Setscrew Lock	3	EA	0.01	0	\$108.42	0.03	0	\$325.26
6515012891967	Sphygmomanometer & Cuff Kit W/ Thigh Lge Adl Adl Child Infant W/Case	2	EA	0.42	0.05	\$163.77	0.84	0.1	\$327.54
7240001776154	Spout Can Flexible	1	EA	0.55	0.05	\$4.17	0.55	0.05	\$4.17
6515013146694	Stethoscope Combo Littman Classic li 28"Lg	5	EA	1	0	\$49.41	5	0	\$247.05
6515013975212	Stimulator Nerve Peripheral High/Low Output Amperage	1	EA	1	0.03	\$161.55	1	0.03	\$161.55
6515 NCM031001	Stimulator Nerve Peripheral High/Low Output Amperage Stimuplex Hns 11 Uses 9v Batt (Vendor: B. Braun)	1	EA	0.55	0.01	\$630.00	0.55	0.01	\$630.00
6515014350050	Suction Apparatus Surgical Portable Model 326/M	6	EA	5	0.5	\$2,210	30	3	\$1,326.00
6530006600034	Support Litter Folding Lightweight 31.50 Inches High	4	PR	13.75	1	\$124.17	55	4	\$496.68
6150011768446	Surge Protector 6 Place Outlet W/ 15ft Cord	6	EA	0.1	0.001	19.89	0.6	0.006	\$119.34
6530013215592	Table Operating Field Portable Surgical W/Mayo Tray	1	EA	170	4.5	\$3,824.20	170	4.5	\$3,824.20
PN: MX866	Transducer IBP Reusable W/ 60in Cable	2	EA	.2	.02	\$140.50	.4	.04	\$281.00
6515015012255	Tube Gas Anesthesia Drawover 90" Lg Scavenging Corrugated	1	EA	0.15	0.1	\$10.01	0.15	0.1	\$10.01
6515015281968	Ultrasound Blood Flow Detect 8mhz Pencil Tip Doppler (Parks)	2	EA	4	\$0.20	\$595.00	8	0.4	\$1,190.00
6525015037182	Ultrasound Unit Hand-Held Portable Sonosite 180 Plus Color Battery & Ac	1	EA	20	2	\$35,905.65	20	2	\$35,905.65
6530014617988	Urinal Male Patient Plas Sturdy Handle Hinged Cap 1s	2	EA	1	0.01	\$0.99	2	0.02	\$1.98
7910015019347	Vacuum Shop Wet/Dry 6.5 Gal 2.5 Hp W/Attachments	1	EA	UNK	UNK	\$59.00	0	0	\$59.00
6515013556479	Vaporizer Anesthesia Drawover Field Portable	1	EA	20	2	\$6,146.08	20	2	\$6,146.08

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6530014551653	Ventilator Volume Ptbl 8.870x11.5in Uni-Vent Eagle 754 120/220v Ac	3	EA	13	0.75	\$7,929.88	39	2.25	\$23,789.64
6515014792437	Warmer Fluid Arizant Ranger	3	EA	5.4	0.1	\$1,350.00	16.2	0.3	\$4,050.00
6515014626186	Wrench O2 Cylinder Hand Wheel	5	EA	0.5	0.05	\$10.20	2.5	0.25	\$51.00
	Total					TOTALS	3434.41	340.905	\$346,597.63

Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
	MEDICATIONS								
6505011169245	Albuterol Inhalation 17gm Cont 200 Sprays	1	EA	0.13	0.01	\$15.18	0.13	0.01	\$15.18
6505015267904	Anticoagulant Citrate Dextrose Sol USP Formula A 500ml Cont 24s	2	PG	5.25	0.115	150.02	10.5	0.23	\$300.04
6505014745440	Atropine Sulfate Inj 0.4mg/MI 20ml Vial 10s	0.2	PG	0.75	0.02	\$8.94	0.15	0.004	\$1.79
6505011277946	Bupivacaine Hydrochloride Injection USP .50% 30ml Vial 10s	1.5	PG	1.9	0.05	\$13.75	2.85	0.075	\$20.63
6505015058043	Calcium Chloride 100mg/MI 10ml Inj 25s	0.4	PG	0.55	0.12	\$11.50	0.22	0.048	\$4.60
6505014802501	Cefazolin Sodium Sterile USP Equiv To 1gm Cefazolin 1gm Vial 25s	2	PG	0.18	0.21	\$43.64	0.36	0.42	\$87.28
6505011046393	Cefoxitin Sodium Sterile USP 2gm Vial 25	2.4	PG	1.67	0.083	\$314.10	4.008	0.1992	\$753.84
6505012192760	Ceftriaxone Sodium 1gm Vial 10s	1	PG	0.7	1.5	\$207.25	0.7	1.5	\$207.25
6505014437072	Dextrose Inj 50ml Syr-Ndl Unit 10s	0.2	PG	0.55	0.12	\$20.00	0.11	0.024	\$4.00
6505014437076	Ephedrine Sulfate 50mg/MI Inj Amps 50s	0.4	PG	0.55	0.12	\$17.57	0.22	0.048	\$7.03
6505010932384	Epinephrine Injection USP0.1mg Per MI Syringe-Needle Unit10ml 10s	1	PG	1.6	0.14	\$19.83	1.6	0.14	\$19.83
6505012040681	Etomidate lin 20ml Syr-Ndl Unit 10s	2	PG	1.35	0.02	\$160.06	2.7	0.04	\$320.12
6505010731316	Fentanyl Citrate Injection USP 5ml Ampule 10s	4	PG	0.33	0.01	\$3.66	1.32	0.04	\$14.64
6505012139514	Gentamicin Sulfate Injection USP 40mg Equiv/MI 2ml Vial 25s	0.4	PG	0.66	0.02	\$7.09	0.264	0.008	\$2.84
6505010197627	Glycopyrrolate Inj 0.2 Mg Per MI 20 MI	5	BT	0.17	0.01	\$1.10	0.85	0.05	\$5.50
6505015153167	Heparin Sodium Inj 1000un/MI 10ml Vial 25s	0.56	PG	1.15	0.25	\$22.97	0.644	0.14	\$12.86
6505012811247	Hetastarch In Sodium Chloride Injection 500ml Bag 12s	2	PG	16	0.5	\$295.14	32	1	\$590.28
6505001538480	Hydrogen Peroxide Topical Solution USP 1pint (473 MI)	1	BT	1.16	0.04	\$0.35	1.16	0.04	\$0.35
6505014437083	Isoflurane USP 100ml Bottle 6s	2	PG	0.55	0.12	\$121.80	1.1	0.24	\$243.60
6505011533733	Ketamine Hci Nj 100mg/MI 5ml Vi 10s	2	PG	0.27	0.02	\$92.32	0.54	0.04	\$184.64

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6505012447982	Labetalol Hci Inj 5mg/MI 20ml Vial 20s	0.35	PG	0.12	0.004	\$9.70	0.042	0.0014	\$3.40
6505005986117	Lidocaine Hcl Inj 2% 20ml Vial 1s	15	VI	0.16	0.01	\$6.30	2.4	0.15	\$94.50
6505005843131	Lidocaine Hydrochloride Jelly 2% 30 MI 1s	2	TU	0.15	0.01	\$7.60	0.3	0.02	\$15.20
6505001538809	Lubricant Surgical 4 Oz (113.4 Gm)	3	TU	0.35	0.02	\$0.65	1.05	0.06	\$1.95
6505011253253	Mannitol Injection USP 25% 50ml Single Dose Vials 25s	2	PG	6.75	0.18	\$25.80	13.5	0.36	\$51.60
6505012415747	Midazolam Hydrochloride Injection 5mg/MI 2ml Vial 10s	2	PG	0.21	0.01	\$167.88	0.42	0.02	\$335.76
6505015055813	Morphine Sulfate Injection USP 10mg/MI 1 MI Unit 10s	10	PG	1.15	0.15	\$10.08	11.5	1.5	\$100.80
6505000797867	Naloxone Hydrochloride Injection USP 0.4mg/MI 1ml Ampul 10s	1	BX	0.12	0.05	\$4.85	0.12	0.05	\$4.85
6505014977913	Neostigmine Methylsulfate Injection USP 10ml Multiple Dose Vial 10s	1	PG	0.55	0.32	\$156.00	0.55	0.32	\$156.00
6505001049320	Phenylephrine Hci Inj 1% 1 MI 25s	0.8	BX	0.42	0.03	\$11.80	0.336	0.024	\$9.44
6505013329024	Phenytoin Sodium Injection USP 50mg/MI Vial 5ml 25s	1	PG	1	0.01	\$4.36	1	0.01	\$4.36
6505006807352	Promethazine Hydrochloride Injection 25mg/MI 1ml Ampul	1	BX	0.31	0.02	\$9.70	0.31	0.02	\$9.70
6505014965229	Propofol Inj 10mg/MI 20ml Single Dose Vi 50s	0.5	PG	0.45	0.01	\$432.84	0.225	0.005	\$216.42
6505010880499	Scopolamine Hydrobromide Inj 0.4mg/MI 1ml Vi 25s	0.24	PG	0.4	0.01	\$19.76	0.096	0.0024	\$4.74
6505002165370	Sodium Bocarboxate Inj 8.4% Syr-Ndle Unit 50ml 10s	0.5	PG	4.4	0.3	\$18.24	2.2	0.15	\$9.12
6505014622436	Sodium Chloride Inj 0.9% 1000 MI Bag 12s	16	PG	0.55	0.12	\$8.44	8.8	1.92	\$135.04
6505014171254	Succinylcholine Inj 20mg/MI 10ml Vial 25s	1	PG	1.55	0.01	\$11.34	1.55	0.01	\$11.34
6505005607331	Sulfadiazine Silver Cream 1% Topical 400gm Jar	4	JR	1.25	0.05	\$14.54	5	0.2	\$58.16
6505005824737	Tetracaine Hydrochloride Ophthalmic Solution 0.5% 15 MI	1	BT	0.1	0.01	\$3.39	0.1	0.01	\$3.39
6505012144500	Thrombin USP Bovine Derived 20000 Un Thrombin 20ml Diluent W/Transfer Device & Sprayer 2s	20	EA	0.6	0.04	\$19.57	12	0.8	\$391.40
6505012580983	Vecuronium Bromide Inj 1mg/MI 10ml Vi 10s	4	PG	0.45	0.03	\$142.73	1.8	0.12	\$570.92
	Total Meds						124.725	10.049	\$4,984.38
	CONSUMABLES								
6510009268883	Adhesive Tape Surgical Porous Woven 2 Inches By 10 Yds 6s	3	PG	1.28	0.06	\$8.21	3.84	0.18	\$24.63
6515013215211	Airway Kit Percutaneous Emergency Adult Sterile Disposable	2	EA	0.2	0.05	\$186.68	0.4	0.1	\$373.36
6515011295437	Airway Nasopharyngeal Argyle Design 28fr Crvd Plas 10s	0.6	PG	0.25	0.001	\$34.48	0.15	0.0006	\$20.69
6515011649637	Airway Pharyngeal 4" Airway/Cut Away Flange Kink Res 30fr 30s	0.5	PG	1	0.01	\$24.48	0.5	0.005	\$12.24
6510012404514	Applicator Benzoin Tincture Impregnated 4inch Swabstick 500s	0.04	PG	0.8	0	\$87.84	0.032	0	\$3.51
6515014802307	Bag Blood Collecting Sterile 450 MI Cap Single Bag 48s	0.75	PG	0.18	0.15	\$153.60	0.135	0.1125	\$115.20

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6530011075798	Bag Sterilization-Biohazard Disposal 36x24" .0030" Sgl Wall 200s	0.12	PG	17	0.44	\$137.23	2.04	0.0528	\$16.47
8105015065226	Bag, Hefty Cinch Sak, 39 Gal 1.2 Mil 20s	1.5	BX	3.1	0.03	\$8.59	4.65	0.045	\$12.89
6515014618338	Bandage Cast Polymer Splinting Material Long Bone 6" X 45" 5s	3.6	PG	0.15	0.02	\$117.34	0.54	0.072	\$422.42
6515014618357	Bandage Cast Polymer Splinting Material Whole Arm 4"X30" 5s	3.6	PG	0.15	0.02	\$79.55	0.54	0.072	\$286.38
6510015032117	Bandage Gauze Cotton 6 Ply White 4.5" Wide 4.1 Yds Long Vacuum Packed 1s	100	EA	0.55	0.12	\$0.89	55	12	\$89.00
6510015227354	Bandage Gauze Self-Adherent Cotton Elastic Beige 4" Wide 4yd 12s	3	PG	0.55	0.12	\$56.18	1.65	0.36	\$168.54
6530014940126	Basin Emesis Plastic Disposable 500cc 12s	0.5	PG	0.55	0.12	\$6.95	0.275	0.06	\$3.48
6135009857845	Battery Nonrechar Alk 1.5 Volt Aa Cell 24s	5	PG	0.1	0.001	\$7.52	0.5	0.005	\$37.60
6135008264798	Battery Nonrechar Alk 1.5 Volt Aaa 12s (Ent Kit)	1	PG	0.2	0.002	\$3.25	0.2	0.002	\$3.25
6135009002139	Battery Nonrecharge 9v 2 Term .656"W X 1.031"L X 1.906"H Dry 12s (Stimulators & Pulse Ox)	0.5	PG	0.1	0.002	\$10.70	0.05	0.001	\$5.35
6135008357210	Battery Nonrechargeable 1.5 Volt D Sz 12s (Metal Laryngoscope)	0.75	PG	3.5	0.03	\$8.81	2.625	0.0225	\$6.61
6515006600011	Blade Surg Knife Det No.10 Small Tang U/W 3 3l 7 9 Handle Cs 6s	7	PG	0.03	0.002	\$1.41	0.21	0.014	\$9.87
6515010095293	Blade Surg Knife Det No.15 Small Tang U/W 3 3l 7 9 Hdl Steel 150s	0.4	PG	1.12	0.05	\$32.04	0.448	0.02	\$12.82
7210009356666	Blanket Casualty Plastic Film Alum Coated 95x56in Green 1s	18	EA	0.16	0.01	\$6.45	2.88	0.18	\$116.10
6532013875858	Blanket Warming Post Op 84x34in Polyethylene/Tissue Multi-Access Panels 20s	1	PG	18	0.03	\$206.00	18	0.03	\$206.00
6532015265337	Blanket Warming W/ Surgical Access Panels 84" By 36"	8	EA	0.33	0.55	\$164.00	2.64	4.4	\$1,312.00
6515011281407	Blood Recipient Set Indirect Transfusion Y Type 48s	0.75	PG	8	1.4	\$156.09	6	1.05	\$117.07
6530013643353	Brush-Sponge Surgical Scrub Dips Nonster 3% Pcmx I.P. 300s	0.18	PG	5	0.18	\$153.72	0.9	0.0324	\$27.67
6515010726380	Cannula Laryngeal Yankauer W/72" Lg Clear Tubing W/O Control Vent 20s	0.9	PG	0.43	0.03	\$67.43	0.387	0.027	\$60.69
PN: 1050208	Cannula Oral/Nasal Sidestream Co2 25s (Manf: Welch Allyn)	10.00	PG	1.80	0.15	\$26.75	18.00	1.5	\$267.50
6532013277237	Cap Operating Surg Univ Sz Bouff Disp 100s	0.54	PG	3.2	0.01	\$21.84	1.728	0.0054	\$11.79
6550015008742	Cartridge Analyzer Blood Cc Combo 25s	2.16	PG	1.25	0.25	\$275.00	2.7	0.54	\$594.00
6515004588411	Catheter & Conn Suct Trach Dsgn 14fr Whistle Tip 2 Eyes Max 50s	0.72	PG	3.55	0.62	\$16.74	2.556	0.4464	\$12.05
6515013909627	Catheter & Needle Unit 14ga Orange Protectocath Disp 200s	0.27	PG	5.7	0.03	\$471.04	1.539	0.0081	\$127.18
6515012091174	Catheter & Needle Unit 16ga 50s 12in 50s	0.08	PG	6	0.55	\$35.01	0.48	0.044	\$2.80
6515013909654	Catheter & Needle Unit 18ga Green Protectocath Disp 200s	0.27	PG	22.5	0.14	\$393.63	6.075	0.0378	\$106.28
6515014396969	Catheter And Needle Unit Iv D12 16ga Yellow Sterile Disp 200s	0.02	PG	1.5	1	\$175.68	0.03	0.02	\$3.51
6515011151726	Catheter Arterial Embolectomy Fogarty 3fr 80cm Lg Plas Ster Disp 1s	4	EA	0.01	0.001	\$49.41	0.04	0.004	\$197.64

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6515013767473	Catheter Arterial Radial 20ga Thin-Walled W/Bld Coll Chamber 50s	0.06	PG	1.3	0.75	538.5	0.078	0.045	\$32.31
6515011399050	Catheter Cardio Fogarty Embolectomy 4fr 80cm Lg 1ml Syr Cap 1s	4	EA	0.01	0.001	\$55.85	0.04	0.004	\$223.40
6515011774924	Catheter Cardio Fogarty Embolectomy 6fr 80cm Lg Male Luer Conn 1s	4	EA	0.11	0.001	\$45.03	0.44	0.004	\$180.12
6515003174260	Catheter Urethral Robinson Red Rubber 20fr 1s	6	EA	0.1	0.01	\$0.56	0.6	0.06	\$3.36
6515012606699	Catheterization Kit Central Venous Two Lumen Sterile 5s	0.12	PG	0.5	0.06	84.32	0.06	0.0072	\$10.12
6515011912011	Catheterization Kit Suprapubic Puncture Stamey 14fr Ster Disp1s	2	EA	0.75	0.03	\$58.05	1.5	0.06	\$116.10
6515001490104	Catheterization Kit Urethral W/Bot-Outlet Drain Bag & 16fr Cath 1s	18	EA	0.71	0.25	\$6.48	12.78	4.5	\$116.64
6510010854742	Cellulose Oxidized Regen 8x4" Yellow 24s	2	PG	0.5	0.05	\$1,279.32	1	0.1	\$2,558.64
6515014661195	Circuit Ventilator Medical Vinyl Disp 6ft Lg 15s	0.4	PG	1.15	0.15	\$80.00	0.46	0.06	\$32.00
6515012471001	Clip Hemostatic Raney Design Scalp Clips Plastic Disposable 200s	0.4	PG	0.85	0.052	\$84.89	0.34	0.0208	\$33.96
6515014493193	Collection Canister 1200ml Disp Plas W/Plas Lid 10s	1.2	PG	0.4	0.4	\$36.00	0.48	0.48	\$43.20
6515009269201	Connector Tubing Straight A18 Taper Serrations 3.5"Lg .188"Id 50s	0.24	PG	0.65	0.06	\$13.04	0.156	0.0144	\$3.13
6515007257843	Connector Tubing Y Branched Serrated 0.188-0.312" 50s	0.12	PG	0.26	0.03	\$53.88	0.0312	0.0036	\$6.47
6530014604782	Container Sharps Board Fold-Flat 5 Lt 25s	0.24	PG	0.55	0.18	\$49.86	0.132	0.0432	\$11.97
6550015009325	Control Electrolyte & Hematocrit Ea Ampul Co 1.7ml 20s	0.05	PG	0.55	0.02	\$48.00	0.0275	0.001	\$2.40
6550015008057	Control Rna Quality Level 1 (Irma) 30s	0.07	PG	0.55	0.11	\$64.75	0.0385	0.0077	\$4.53
6550015008062	Control Rna Quality Level 2 (Irma) 30s	0.07	PG	70	13.5	\$64.00	4.9	0.945	\$4.48
6550015008065	Control Rna Quality Level 3 (Irma) 30s	0.07	PG	0.55	0.12	\$26.74	0.0385	0.0084	\$1.87
6515012694218	Cord Bipolar Forceps 12 Ft Foot-Switching Ster Disp 50s	0.36	PG	1.5	0.65	\$162.50	0.54	0.234	\$58.50
4020009900988	Cord Fibrous Nylon 550 Pound Breaking Strength 100ft	2	RO	0.5	0.05	\$8.39	1	0.1	\$16.78
6510015007929	Cotton Balls Single Strung Sterile Standard Size 200s	1	PG	0.12	0.08	\$37.28	0.12	0.08	\$37.28
6850014715613	Detergent Surg Enzymatic 32oz Medizine Lf 36s	0.25	PG	1.25	0.25	\$36.00	0.3125	0.0625	\$9.00
PN: 20396	Disinfectant Instrument Cidex Opa 5.75pct Concentrate 5-Litre Bt Dilute 1:10 For .55pct 1s (Manf: J&J)	1	BT	2	0.02	\$48.80	2	0.02	\$48.80
6515013414523	Drainage Kit Clo Suct Jackson-Pratt Radpq10mm W Drain Sterile 5s	2.4	PG	0.31	0.6	\$85.51	0.744	1.44	\$205.22
6530014558325	Drainage Unit Pleurevac Auto Transfusion Canister 6s	2	PG	1.25	0.25	\$348.42	2.5	0.5	\$696.84
6515014993126	Drainage Unit Pleurevac W/Blood Retrieval 6s	2	PG	1.8	1	\$279.18	3.6	2	\$558.36
6530011818247	Drape Surgical Plas 35x23in Dis Ster Ip Antimicrobial Adh Area 10s	0.5	PG	2.25	0.25	\$416.76	1.125	0.125	\$208.38
6510014575844	Dressing Burn 8x18" Saturated W/Water Gel 20s	0.6	PG	0.55	0.12	\$103.00	0.33	0.072	\$61.80

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6510013790471	Dressing Clear Tegaderm 4x6in 25s	1.44	PG	0.55	0.12	\$37.30	0.792	0.1728	\$53.71
6515010747601	Electrode Ekg Pregelled Adult 5.1cm Dia 25s	10	PG	0.49	0.017	\$8.79	4.9	0.17	\$87.90
6515011977649	Electrode Grounding Electrosurg Pregelled Self Adh Plas 50s	0.3	PG	2.1	0.15	\$159.98	0.63	0.045	\$47.99
6515013750513	Filter Heat & Moisture Exchanger Anesthesia Ventilator 50s	0.36	PG	0.3	0.2	\$274.39	0.108	0.072	\$98.78
6530014440753	Filter Sterilization Container 9x6in 1000s	0.02	PG	1.25	0.25	\$35.20	0.025	0.005	\$0.70
6640013785773	Filter Sterilization Container 9x9in 1000s	0.02	PG	1	0.01	\$44.60	0.02	0.0002	\$0.89
6515014631464	Fixation Device External Howmedica Ster Forward Deployed Field Pack	10	EA	0.55	0.18	\$1,702.00	5.5	1.8	\$17,020.00
7530002815941	Folder Set Manila 8x11 Cut 100s	0.18	HD	9.66	0.48	\$9.69	1.7388	0.0864	\$1.74
6532013373685	Footwear Covers Boot Surg Universal Disp 150s	0.72	PG	2	0.6	\$152.35	1.44	0.432	\$109.69
PN: 20-1410	Forceps Bipolar Bayonet 8in 1.5mm Tip Disp 10s	1	PG	1.2	0.7	\$334.00	1.2	0.7	\$334.00
7530014671006	Form Printed Clinical Record Anesthesia 10.5in L X 8in W 100s	0.18	HD	0.15	0.05	\$1.00	0.027	0.009	\$0.18
7540006344121	Form Printed Clinical Record-Doctors Orders Std Form 508 100s	0.18	HD	0.01	0.001	\$5.18	0.0018	0.00018	\$0.93
7540006344122	Form Printed Clinical Record-Progress Notes-Form 509 100s	0.36	HD	0.01	0.001	\$3.29	0.0036	0.00036	\$1.18
6510002020800	Gauze Petrolatum Step Back Accordion White 18x3" 12s	1.5	PG	0.44	0.02	\$8.54	0.66	0.03	\$12.81
6515012317249	Gel Transmission Ultrasound 0.25li Dispenser 8.5oz Capacity 12s	0.3	PG	1.4	0.15	31.84	0.42	0.045	\$9.55
6510000802054	Gelatin Sponge Absorb Indiv Sealed 6s (Gel Foam)	6	BX	0.39	0.13	\$117.15	2.34	0.78	\$702.90
6515014457907	Glove Patient Exam Sz Lrg Nitrile Disp Ster Ambid 1000s	0.7	PG	5.25	0.12	\$90.00	3.675	0.084	\$63.00
6515012611137	Gloves Surgeons Gen Surg Sz 7.0 Pwdr-Free Rubber Ster Disp 50s	1	PG	2.4	0.36	\$70.00	2.4	0.36	\$70.00
6515012534260	Gloves Surgeons Gen Surg Sz 7.5 Pwdr-Free Rubber Ster Disp 50s	1	PG	4	0.36	\$65.88	4	0.36	\$65.88
6515012522484	Gloves Surgeons Gen Surg Sz 8.0 Pwdr-Free Rubber Ster Disp 50s	1	PG	4.56	0.36	\$60.82	4.56	0.36	\$60.82
6540012901157	Goggles Protective Infection Distortion-Free Lenses Adj 100s	0.04	PG	4.5	0.01	\$153.72	0.18	0.0004	\$6.15
7920015010671	Refill Roller Mop 11in Tear Resist Refill F/7920-01-501-0668 6s	0.33	PG	2.25	0.03	\$25.20	0.7425	0.0099	\$8.32
6515014697217	Holder Tube Endotracheal Thomas 100s	0.09	PG	0.55	0.12	\$340.00	0.0495	0.0108	\$30.60
6515015069041	Ibp Dome For Mx860 Transducer	0.18	PG	10	1.5	\$595.00	1.8	0.27	\$107.10
6515014530960	Intraosseous Infusion Device F.A.S.T.1 W/ Remover 1s	2	EA	0.2	0.2	95	0.4	0.4	\$190.00
6515015007654	Intravenous Exchange Set 7.0fr Id Cath 2.0in Lg Radpq Disp 25s	0.36	PG	5.5	2.2	\$644.00	1.98	0.792	\$231.84
6515012767970	Intravenous Exchange Set 8.5fr Id Cath 2.50" Lg Radpq Disp 25s	0.36	PG	2	0.03	\$245.00	0.72	0.0108	\$88.20
6515014495924	Intravenous Inj Set Needleless Y-Type 48s	0.83	PG	0.5	0.7	\$171.41	0.415	0.581	\$142.27
6515011050614	Intravenous Injection Set 12 Components Nonvented Ster Disp 50s	0.8	PG	0.13	0.03	\$80.33	0.104	0.024	\$64.26
PN: AK-09701	Introducer Set Percutaneous Sheath 7fr 10s	0.6	pg	0.3	0.02	\$29.65	0.18	0.012	\$17.79

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6630015005298	Connector Edge Assembly Bld Gas Analyzer 1s (Irma)	1	EA	1.75	0.75	\$110.00	1.75	0.75	\$110.00
6515014441638	Irrigation & Suction System W/Tips Surgical Disp Stryker 6s	1.6	PG	0.35	0.11	\$335.00	0.56	0.176	\$536.00
PN: 2511	Kit Blood Typing Point Of Care Abo/Rh 1s (Manf: Eldon Biologicals. Us Rep Carolina Biological Supply 336-538-6329)	40	EA	0.1	0.01	\$9.25	4	0.4	\$370.00
6515012137947	Ligature Umbilical 18x0.125" Diag Weave Cotton Ster 2/Pack 24 Packs 24s	1	PG	0.28	0.04	\$38.41	0.28	0.04	\$38.41
6550015009957	Linearity Verification 5 Test Levels 4 2.5ml Ampules P/Lever 5s	1	PG	2.25	0.25	\$112.20	2.25	0.25	\$112.20
8405008893683	Liner Wet Weather Poncho 1s	18	EA	0.5	0.02	\$32.45	9	0.36	\$584.10
6515012246049	Loop Vascular Surg 16"Lg Blunt Tip Radpq Red Maxi Rbbr Ster 10s	1	PG	1	0.001	32.8	1	0.001	\$32.80
6515011656718	Loop Vascular Surg Blue 37cmx2.5mm Oval Loop Blunt Round 10s	1	PG	1	0.04	\$24.80	1	0.04	\$24.80
7520013964722	Marker Tube Type Black Perm Ultra Fine Pt Sharpie 12s	1	PG	0.4	0	\$14.27	0.4	0	\$14.27
6515013716467	Mask Oxygen Oronasal Non-Rebreating W/7ft Tubing 50s	0.36	PG	9.7	1.7	\$59.29	3.492	0.612	\$21.34
6515007822621	Mask Surgical Non-Woven Fabric Syn Fiber Filter Disp 50s	1.08	PG	1.25	0.21	\$3.79	1.35	0.2268	\$4.09
6515014341421	Monitoring Set Ipb Arterial Pressure Sterile 20s	0.3	PG	10	1	871.81	3	0.3	\$261.54
6515011039996	Needle Hypo C20a Spinal Anesthesia 22ga 3.5" Leur Lock 25s	0.08	PG	0.5	0.03	\$30.36	0.04	0.0024	\$2.43
6515007542834	Needle Hypo Gp 18ga 1.5in Lg Luer Lock 100s	2	PG	0.66	0.04	\$6.63	1.32	0.08	\$13.26
6515014072810	Needle Nerve Stimulator 21ga X 4in 30 Degrees Bevel Insulated Stimuplex W/Ext Set (Vendor: B. Braun)	0.24	PG	0.5	0.1	\$140.79	0.12	0.024	\$33.79
6515014946132	Needle Nerve Stimulator 22ga X 2in 30 Degrees Bevel Insulated Stimuplex W/Ext Set (Vendor: B. Braun)	0.24	PG	0.5	0.1	\$176.12	0.12	0.024	\$42.27
6530014884417	Pack, Surgical Basic Consumable Set Up 3s	6	PG	0.55	0.12	\$65.90	3.3	0.72	\$395.40
6510007755706	Pad Abdominal 7.5x8" White 3layers Ster Post Op 240s	0.45	PG	15	3.2	\$44.48	6.75	1.44	\$20.02
6510007863736	Pad Isopropyl Alcohol Impreg Nonwvn Cotton/Rayon 1.5 X 2" 100s	3	PG	0.5	0.1	\$2.58	1.5	0.3	\$7.74
6640015009567	Paper Blood Chemical Analyzer Recording 5s	0.2	PG	1.15	0.15	\$17.00	0.23	0.03	\$3.40
6515011803421	Pledget Felt 2x2in 5s	1	PG	0.48	0.09	\$782.67	0.48	0.09	\$782.67
6530013080984	Prep Kit Skin Preoperative Sterile 20s	1	PG	6.8	0.002	\$62.40	6.8	0.002	\$62.40
7510002729805	Protector Document Clear Flexible 10" X 13" 100s	0.18	PG	6	0.1	\$63.81	1.08	0.018	\$11.49
6515013225898	Razor Surgical Preparation Plas Disp 100s	0.36	PG	0.01	0.001	\$27.54	0.0036	0.00036	\$9.91
8520015015142	Sanitizer Hand Waterless Foaming 16oz Bt 1s	6	BT	1.15	0.15	\$5.36	6.9	0.9	\$32.16
6515003632700	Saw Bone Cutting Wire 20" Long .040" Diameter W/O Handle 1s	4	EA	0.03	0	\$16.73	0.12	0	\$66.92
6515012714894	Sensor Spo2 Monitoring Finger Wrap Propaq 206 26s	1.38	PG	0.94	0.06	\$394.18	1.2972	0.0828	\$543.97

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
PN: SGA162001	Shunt Carotid Burbank Type 18-12fr 15.5cm 5s (Manf: Bard Peripheral Vascular)	0.4	PG	0.2	0.002	\$255.75	0.08	0.0008	\$102.30
6515011700642	Shunt Carotoid Bypass 10.687 O/A Lg Tapered 17-10 Fr Diameter 5s	1.2	PG	0.2	0.002	\$255.75	0.24	0.0024	\$306.90
6515014687929	Shunt Vascular Large External Sundt 1s	4	EA	1.15	0.15	\$183.70	4.6	0.6	\$734.80
6515015261175	Sling Pelvic Orthotic Device, T-Pod Olive Drab	1	EA	0.7	0.11	\$140.43	0.70	0.11	\$140.43
6515014941951	Splint Structural Aluminum Malleable 4.5"X36" Od Green 1s	12	EA	0.22	0.08	\$10.00	2.64	0.96	\$120.00
PN: 3968	Sponge Gauze 4" X 4" 8 Ply 10/Po 10/Bx 16 Bx 1600s	0.225	PG	19	3.1	139.74	4.275	0.6975	\$31.44
6510011603261	Sponge Laparotomy Disp Radiopaque 18"X18" Prewashed 100s	1	PG	10.6	2.56	\$26.21	10.6	2.56	\$26.21
6510007822698	Sponge Surg Gauze Abs White 4x4"8-Ply Nonster 200s	1	PG	0.83	0.73	6.63	0.83	0.73	\$0.83
6510011139209	Sponge Surg Rayon White 1x1in Stringed 10/Pk 200s	0.01	PG	1.06	0.28	\$59.87	0.0106	0.0028	\$0.60
6510011900884	Sponge Surgical Nonwoven Rayon Radiopaque 1/2" X 2" 10/Pk 200s	0.01	PG	1.06	0.3	\$54.28	0.0106	0.003	\$0.54
6515014770735	Staple Unit Surg Gastrointest Gia 80 Multifire 6s	4	PG	0.27	0.39	\$380.76	1.08	1.56	\$1,523.04
PN: 4910T	Staple Unit Surgical Thoracic 3.5 Med Disp 6s	2	PG			\$213.72	0	0	\$427.44
6515011337753	Stapler Skin Surg Ster Indiv Pkg Disp Plas 6s	2	PG	4.15	0.08	59.59	8.3	0.16	\$119.18
6515014770716	Stapler Surg Gastrointest Gia 80 Multiuse 3s	4	PG	0.08	0.59	\$412.68	0.32	2.36	\$1,650.72
6515014770701	Stapler Surg Thoracic 55mm Multiuse Disp 3s	2	PG	0.08	0.58	\$208.98	0.16	1.16	\$417.96
6515010985770	Stethoscope Esophageal Disp 19"Lg 24 Fr 20s	0.9	PG	1	0.16	\$102.95	0.9	0.144	\$92.66
5975008387450	Strap Tiedown Electrical Components 14in 250s	0.2	HD	1.5	0.12	\$7.89	0.3	0.024	\$1.58
6515013948327	Styler Tracheal Tube 7.5-10mm Disp 10s	0.6	PG	2.1	0.02	\$40.89	1.26	0.012	\$24.53
6515014663004	Support Cervical Collar Adjustable Sizes 1-16 Folds Flat 30s	0.13	PG	0.65	0.02	\$363.60	0.0845	0.0026	\$47.27
6532011464269	Surg Pack Gown & Hand Towel Large 30s	1	PG	21	0.02	\$111.64	21	0.02	\$111.64
6515012786321	Suture Abs Gen Clo Sz 0 3 27" Strands Ndl Ct-1 Vicryl 12s	3	PG	0.75	0.06	\$42.39	2.25	0.18	\$127.17
6515013553928	Suture Abs Gi Sz 3-0 1 27" Strand Ndl Sh-1 Coated Vicryl Br 36s	2	PG	0.24	0.02	\$94.98	0.48	0.04	\$189.96
6515001395911	Suture Abs Surg Liver Sz 1 Sgl Armed 3' Lg Polyglycolic Ster 36s	0.16	PG	0.53	0.049	171.04	0.0848	0.00784	\$27.37
6515014671604	Suture Abs Surg Sz 2 96in Lg Ster Loop Pds Tp-1ndle Violet 12s	1	PG	0.45	0.05	\$142.75	0.45	0.05	\$142.75
6515011673781	Suture Abs Sutupak Sz 0 12 18" Strands Coated Vicryl 12s	2	PG	0.86	0.05	\$106.48	1.72	0.1	\$212.96
6515009526897	Suture Abs Urological Sz 4-0 27" Lg Ndl Rb-1 1/2 Cir Twisted 36s	0.16	PG	0.4	0.04	\$55.25	0.064	0.0064	\$8.84
6515013549470	Suture Absorb Ob/Gyn Sz 0 1 36" Strand Ctx Coated Vicryl Br 36s	1	PG	0.24	0.02	\$21.86	0.24	0.02	\$21.86
6515012174320	Suture Nonabs Cardio Sz 5-0 18"Lg Ndl Rb-1,Rb-1 Blue 36s	1	DZ	0.08	0.01	\$48.28	0.08	0.01	\$48.28
6515011535100	Suture Nonabs Cuticular Sz 2-0 Sgl Armed Mono 30in 36s	1.66	PG	0.42	0.061	\$21.81	0.6972	0.10126	\$36.20

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
6515012252025	Suture Nonabs Cuticular Sz0 30"Lg Ndl Fslx Plas Blue 36s	1	PG	0.5	0.037	\$17.14	0.5	0.037	\$17.14
6515009051471	Suture Nonabs Gi Sz 4-0 18"Lg 8 Armed Strands Silk Black Ster12s	2	PG	0.25	0.061	\$32.74	0.5	0.122	\$65.48
6515000678242	Suture Nonabs Size 4-0 18" Lg Perma-Hand Sutupak Silk Black 36s	2	PG	0.73	0.04	\$56.11	1.46	0.08	\$112.22
6515011535730	Suture Nonabs Surg Cardio Sz 3-0 36" Lg Dbl Armed Monofilament 36s	1	PG	0.25	0.01	\$71.31	0.25	0.01	\$71.31
6515007638483	Suture Nonabs Surg Sz 3-0 Unarmed Silk Black Br 30" Lg Ster 36s	1	PG	0.36	0.02	\$58.08	0.36	0.02	\$58.08
6515010113675	Suture Nonabs Surg Sz 4-0 36" Lg Dbl Armed Mono Blue Plas 36s	1	PG	0.25	0.01	\$304.14	0.25	0.01	\$304.14
6515010381186	Suture Nonabs Sz 0 3 24" Strands Ndl Xlh 12s	3	PG	0.25	0.01	29.78	0.75	0.03	89.34
6515007344342	Suture Nonabs Sz 4-0 1 18" Strand C3 Rvs Cutting Edge Nylon 36s	1	PG	0.73	0.04	\$74.96	0.73	0.04	\$74.96
6515010758288	Suture Nonabsorb 2-0 30" Silk Black Unarmed Braided Ster 36s	1	PG	0.21	0.02	\$101.85	0.21	0.02	\$101.85
6515007540412	Syringe Hypo Gp 10ml Luer Slip 100s	1.8	PG	5.8	0.57	\$18.99	10.44	1.026	\$34.18
6515015009382	Syringe Irrigating 60 Mil Cap Ster Disp 160s	0.125	PG	0.75	0.05	\$210.00	0.09375	0.00625	\$26.25
6515014123101	Syringe Hypodermic General Purpose 20cu Cm Capacity Disp Ster 25s	1	PG	1.2	0.01	\$12.54	1.2	0.01	\$12.54
6515004627348	Syringe Hypodermic Gp 3ml Cap Luer Lock Tip Plas Ster Disp 100s	0.36	PG	2	0.19	\$6.59	0.72	0.0684	\$2.37
7510002665016	Tape Duct Plas Coated Cloth Vapor Proof Od Green 2" X 60yd 1s	2	RO	1.15	0.15	\$8.86	2.3	0.3	\$17.72
6550015027253	Test Controls Hiv-1 Use W/ 6550015026235 1s	1	EA	1.15	0.15	29.54	1.15	0.15	\$29.54
6550015026235	Test Kit Human Immunodeficiency Virus Type I Enzyme Hiv-1 100s	0.4	PG	2.25	0.25	807.04	0.9	0.1	\$322.82
6530014340928	Towel Pack Surg Ster Disp Highly Abs Cell Blue Surg/Postop 80s	0.23	PG	1.25	0.25	\$92.14	0.2875	0.0575	\$21.19
6515012461901	Tube Drainage Surg Abramson-Triple Lumen Sump Drain 15" 5s	0.2	PG	0.24	0.029	\$83.95	0.048	0.0058	\$16.79
6515008669073	Tube Drainage Surgical C18 Thoracic 36fr Str 6 Eye Ster Disp 10s	2.4	PG	1.54	0.1	\$17.14	3.696	0.24	\$41.14
6515011885316	Tube Drainage Surgical Penrose 1x18" Rubber Ster 200s	0.18	PG	3.44	0.02	\$69.44	0.6192	0.0036	\$12.50
6515015009618	Tube Endobronchial Blocker Dbl Lumen Left 1s	2	EA	0.12	0.1	\$86.00	0.24	0.2	\$172.00
6515015009589	Tube Endobronchial Blocker Dbl Lumen Right 1s	2	EA	0.15	0.04	\$86.00	0.3	0.08	\$172.00
6515012478925	Tube Ext Inj Set 30"Lg Male/Female Luer Twin-Site Ster 48s	1.13	PG	1.88	0.3	\$39.07	2.1244	0.339	\$44.15
6515005628308	Tube Inhaler Force-Fit 72"Lg Plastic W/Molded Tape 50s	0.12	PG	4.5	0.9	\$70.66	0.54	0.108	\$8.48
6515011502946	Tube Feeding Surg Nasal Ped 8fr Radpqr 10s	0.1	PG	0.07	0.008	41.18	0.007	0.0008	\$4.12
6515009171912	Tube Nasogastric Sump Marked At 18,22,26,30" Dbl Lumen W/Fun 50s	0.24	PG	5	0.7	\$113.00	1.2	0.168	\$27.12
6515001050744	Tube Tracheal Murphy E12 W/Cuff 7.0mm Id 30cm Lg W/15mm Conn	1.2	PG	0.1	0.05	\$16.00	0.12	0.06	\$19.20

Appendix D

AMAL 645 Equipment and Consumables

NSN	NOMENCLATURE	UI QTY	UI	WEIGHT	CUBE	COST	TOT WEIGHT	TOT CUBE	TOT \$
	10s								
6515001050759	Tube Tracheal Murphy E12 W/Cuff 8.0mm Id 10.7mm Dia 32cm Lg 10s	1	PG	1	0.05	\$20.62	1	0.05	\$20.62
6515011470204	Tube Tracheostomy Shiley Size 6 30fr W/Obturator & High Vol Disp 1s	2	EA	0.11	0.01	\$66.98	0.22	0.02	\$133.96
6515014792442	Warming Set Fluid High Flow Arizant 10s	2	PG	1.8	0.025	\$129.00	3.6	0.05	\$258.00
6515014837740	Watertrap Sidestreams Co2 Used On Propaq Monitor 10s	0.6	PG	0.25	0.25	\$122.00	0.15	0.15	\$73.20
6515009652511	Wax Bone 57-62.8 Deg Celsius Plastic Aluminum 2.5 Gm Ea Pk 12s	3	PG	0.25	0.02	\$69.26	0.75	0.06	\$207.78
8520015008038	Wipes Disinfectant Antimicrobial 5x8in 100s	1.00	PG	0.55	0.12	\$4.00	55.00	12	\$4.00
	Total Consumables						427.44	74.19	\$43,110.47
	TOTAL MEDS & CONSUMABLES					TOTALS	552.17	84.24	\$48,094.85

REPORT DOCUMENTATION PAGE

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6. AUTHORS M. Hill, M. Galarneau, P. Konoske, G. Pang		
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13. SUPPLEMENTARY NOTES

14. ABSTRACT (maximum 200 words)
 Combat operations in Iraq have proved the success of the highly maneuverable Forward Resuscitative Surgical System (FRSS) and the Shock Trauma Platoon (STP), yet battlefield experience has shown the equipment and consumable inventories of these facilities need to be standardized to facilitate the flow of casualties. The static nature of current operations in Iraq also showed the original inventories did not suffice when these units became more permanent facilities. Naval Health Research Center (NHRC) was tasked by the Marine Corps Systems Command (SYSCOM) and the Marine Corps Combat Development Command (MCCDC) to review and update the Authorized Medical Allowance Lists (AMALs) for the FRSS and the STP. The aim of this study was to determine how to augment the medical capabilities of these two systems without adversely affecting the requirements of their original maneuver warfare missions.
 Information on clinical needs for the FRSS and STP was gathered from medical personnel with current or recent combat experience, by examining universal needs statements filed with MCCDC and comments collected by the Naval Operational Medicine Institute's Medical Lessons Learned system. Data collected via the Navy-Marine Corps Combat Trauma Registry was also examined. The NHRC method of modeling clinical requirements was used to analyze the changes in inventory required by the data collected. A subject matter expert panel was held at the Naval and Marine Corps Reserve Training Center in San Diego, CA, to review the NHRC findings and recommendations.
 This study was able to identify areas where the clinical capabilities of both the FRSS and STP could be augmented without increasing their AMALs' weight and cube to such a degree it would hamper their original missions of maneuver warfare. Several areas were also recognized where additional study is needed to identify new equipment to replace items currently in the inventories that are considered substandard.

15. SUBJECT TERMS
Forward Resuscitative Surgical System, Shock Trauma Platoon, Marine Corps, Iraq

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