



U.S. Air Force Operational Medicine: Using the Enterprise Estimating Supplies Program to Develop Materiel Solutions for the Aeromedical Evacuation In-Flight Kit (FFQDM)

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Executive Summary

The Naval Health Research Center has used its modeling and simulation expertise to develop and update conventional U.S. Air Force medical assets since 2004. Air Force medical modeling capabilities currently capture care and treatment of the sick and injured from the first responder through theater hospitalization.

The objective of this study was to leverage medical modeling and simulation advantages to provide recommendations for allowance standard (AS) configurations based on the Aeromedical Evacuation In-Flight Kit (FFQDM) operational and clinical requirements. Naval Health Research Center analysts reviewed the FFQDM Unit Type Code, analyzed clinical requirements with subject matter experts, and used modeling and simulation tools to develop an updated operationally-based and patient-driven recommended FFQDM AS line list. In summary, the recommended AS for the FFQDM shows a weight reduction of 12%, a cube reduction of 16%, and a cost increase of \$3,463.81, which is a 1.79% difference per set.

Modeling a medical system like the FFQDM, with its range of capabilities and functional areas, validates the materiel solutions for each Unit Type Code. It is effective in facilitating AS reviews that focus on advancing the mission, operational requirements, and capabilities of these agile, deployable medical resources.

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Introduction

The Naval Health Research Center (NHRC) has used its modeling and simulation (M&S) expertise to develop and update U.S. Air Force medical capabilities, allowance standards (AS), and surgical subspecialty Unit Type Codes (UTC) since 2004. Air Force medical units must remain small, light, and flexible. Based on the success of previous work, the Air Force asked NHRC to conduct a review of the Aeromedical Evacuation In-Flight Kit (FFQDM) (Konoske, 2009).

The Air Force Medical Services are faced with a wide range of potential scenarios, from providing warfighters forward resuscitative care to assisting civilian populations during humanitarian relief operations. Air Force planners and UTC developers have closely followed the *Joint Vision 2010* concept of providing highly mobile medical resources with a minimal logistic footprint, without compromising capability (Office of the Joint Chiefs of Staff, 1998). Additionally, guidance provided by the *Joint Vision 2020* calls for a more scientific approach that leverages existing information technologies to support modern operational capabilities (Office of the Joint Chiefs of Staff, 2000). Emphasis on mobility and capability result in a modular approach to prepare, plan, and deploy the FFQDM expeditionary medical platform.

Method

The NHRC method of modeling medical supply requirements was developed to establish and/or review medical inventories for various levels of care. The aim is to give clinicians in the field the needed materiel to provide the best care possible, while still maintaining as small a logistical footprint as possible. This is accomplished through a process that begins with the identification of likely patient types to be encountered by a particular type of medical treatment asset, including combat wounds, non-battle injuries, and illnesses. *International Classification of Diseases*, Ninth Revision (ICD-9) coded patient conditions that have been selected by the Defense Medical Materiel Program Office are used for this purpose. The types of ICD-9 patient codes are provided in Appendix A. Figure 1 is an illustration of the NHRC processes used when developing a modeling and simulation package.

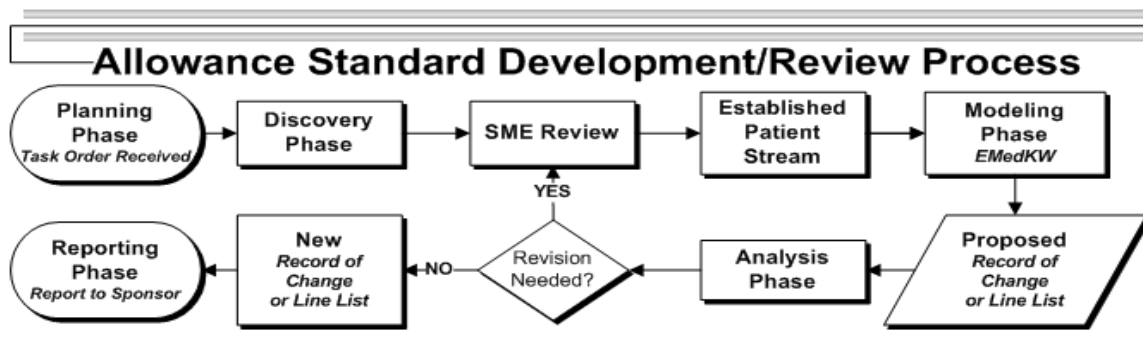


Figure 1. An example of the NHRC AS review process.

Subject Matter Expert Guidance

A subject matter expert (SME) AS review was conducted on September 21, 2009. At this meeting, SMEs and NHRC analysts refined and validated assumptions regarding equipment and supply associations and developed the final AS line list.

Patient Stream

There are two preferred methods used to generate a patient stream. The first uses the underlying distribution from the Patient Condition Occurrence and Frequency tool, and the second is to use a patient stream developed by the client from actual mission logs that are reviewed and adjusted by operational SMEs. For this study, the Air Mobility Command (AMC) working group SME panel provided a scenario with 50 patient conditions. The patient stream possesses an array of patient types that include three psychiatric, 17 disease, and 29 trauma patients, and 1 normal pregnancy. Two patients have multiple injuries, one with five separate ICD-9 codes, and one with four. This simulation assumed a worst case scenario, and may be considered a baseline for future updates and modernization activities once vetted by an SME panel. The scenario is in Appendix A.

Expeditionary Medical Knowledge Warehouse

The patient stream is imported to the Expeditionary Medical Knowledge Warehouse (EMedKW) program to perform modeling and simulation. EMedKW is composed of the Enterprise Estimating Supplies Program (EESP), the Tactical Medical Logistics Planning Tool, and the ReSupply Validation Program. EMedKW is a service-oriented architecture system designed to protect and organize medical data. EMedKW provides the ability to estimate the equipment and consumable items needed to treat a particular patient distribution, while also tracking inventory to monitor mission readiness. Within EMedKW, the tasks required to treat each patient condition code are identified and matched with the required equipment and consumable items. Analysis and review of the output informs the appropriate modifications to the AS for AMC's review.

The following example describes the EMedKW data structure (see Figure 2). The task profile shows the likely clinical tasks to be performed on this type of patient in that functional area, and the percentage of those patients expected to receive them. The "Equipment & Supplies" column identifies the items needed to complete the "Insert Endotrach Tube" task at that level of capability. Not shown in this figure are additional data fields used to calculate supply quantities, including the amount of each supply needed to complete the task, how often the task will be repeated in the first 24 hours of treatment, how often the task will be repeated in each subsequent 24-hour period, and the average length of stay at that facility.

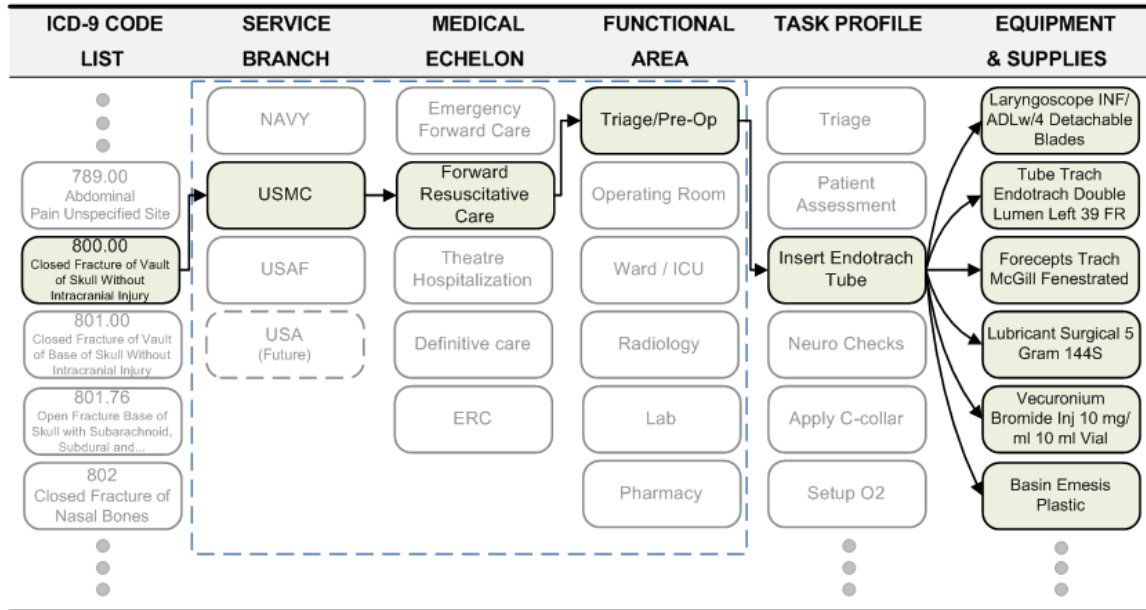


Figure 2. An example of NHRC's programmatic modeling process using a patient ICD-9 code 800.00.

Capability

The Aeromedical Evacuation (AE) team performs in-flight patient care on any fixed-wing aircraft using medical equipment that meets airworthiness testing certification standards. AE team deployments include the full spectrum of expeditionary aerospace force scenarios, including emergent, steady-state, low-intensity conflicts, small-scale contingencies, major theater war, and aerospace expeditionary force rotation. Manpower for a basic AE In-Flight team is shown in Table 1.

Table 1
AE Manpower

Position title	Air Force specialty code	Qty
Flight nurse	X046F3	1
Flight nurse	X046F3	1
AE technician	X4N071	1
AE technician	X4N051	2
Total		5

Results

Change Justification

Line items are reviewed, categorized, and reported as being either an equipment item, medication, consumable, or durable. In total, 299 line items were reviewed— seven items were deleted and four items were added. The AS changes were due solely to reconfiguration, which included line item quantity changes vetted through the SME panel. Three items were not modeled. The electrical cable assembly and the frequency converter portable modified are related to airframe configuration for medical evacuations and were not modeled. However, these items are included in the line list to more accurately reflect the AS's actual weight, cube, and cost. The only medically-related item not modeled was lamivudine 150 mg-zidovudine 300 mg HIV, which is used after an accidental needle stick and provided to the clinician as a precaution against potential HIV exposure. Appendix B contains the line list with the status (i.e., quantity change, add, delete) and the weight, cube, and cost for each line item.

In the equipment category, the changes were modest with no more than 2% change in either area. However, the cost increased by more than \$12,000.00, due primarily to the addition of the \$11,000.00 frequency converter portable and the electrical cable assembly, which cost \$2,500.00.

In the medication section, the changes were dominated by quantity decreases that account for the rather significant modifications being recommended. There are 75 line items in the AS categorized as medications. Of these 75, 43 are recommended for quantity decrease, 27 remain unchanged, and only 5 are recommended for increase. The decreases are based on the needs of the patients in the patient stream and on associated clinical tasks. For instance, cardiopulmonary resuscitation is a task that requires a significant amount of medication, but it is a low frequency task. As such, the amounts required to maintain this task's clinical requirement are sufficient at the recommended amount.

This same dynamic is evident in consumables and durables. Ninety of the 136 line items in the consumable category are recommended for quantity decrease, and in the durable section, seven of the nine are called out as decreases.

The AE In-Flight Kit (887A) AS simulation was done based on a robust patient stream and refined with SME panel input on September 21, 2009. A comparison of modeled recommended changes and the FFQDM AS is shown in Table 2.

Table 2
FFQDM Weight, Cube, and Cost

Category	Weight (lbs)	Cube (cu ft)	Cost
AS equipment	1,164.72	135.96	\$180,267.68
EESP equipment	1,158.29	138.07	\$192,637.62
Difference	-6.43	2.10	\$12,369.94
Percent change	-0.55%	1.55%	6.86%
AS medicine	85.40	13.65	\$1,818.31
EESP medicine	47.98	7.83	\$897.50
Difference	-37.41	-5.82	-\$920.81
Percent change	-43.81%	-42.66%	-50.64%
AS consumables	300.02	98.12	\$11,900.29
EESP consumables	155.46	60.49	\$3942.28
Difference	-144.57	-37.63	-\$7,958.01
Percent change	-48.19%	-38.35%	-66.87%
AS durables	9.69	1.65	\$49.42
EESP durables	4.66	1.56	\$22.11
Difference	-5.03	-0.09	-\$27.31
Percent change	-51.91%	-5.55%	-55.27%
938C AS total	1,559.83	249.39	\$194,035.70
EESP total	1366.39	207.94	\$197,499.51
Difference	-193.44	-41.45	\$3,463.81
Percent change	-12.40%	-16.62%	1.79%

Conclusion

Modeling and simulation was used to study the FFQDM and recommend changes to its AS. The clinical capabilities support patient movement and medical evacuation capabilities within the full spectrum of expeditionary aerospace force scenarios, including emergent, steady-state, low-intensity conflicts, small-scale contingencies, major theater war, and aerospace expeditionary force rotation. A representative patient stream was developed to characterize the type and frequency of patients likely to be seen at this level of care and functional area.

Modeling and simulations tools are essential for projecting appropriate medical care needs for our service personnel. Standardizing equipment and consumables with the Defense Medical Material Program Office-approved items makes FFQDM review more efficient. Updating and maintaining the patient data and FFQDM contents database will ensure that future medical needs are met in the most effective manner.

References

Konoske, P. (2009). *Statement of Work FY10: Using the Naval Health Research Center's Medical Planning Applications to Review or Validate Air Force Medical Requirements and Capabilities*. San Diego, CA: Naval Health Research Center.

Office of the Joint Chiefs of Staff. (1998). *Joint Vision 2010*. Washington, DC: Department of Defense.

Office of the Joint Chiefs of Staff. (2000). *Joint Vision 2020*. Washington, DC: Department of Defense.

Appendix A.
FFQDM Patient Stream

ICD-9 code	ICD-9 description	No. patients
846.90	SPRAIN SACROILIAC NOS	1
991.30	FROSTBITE NEC/NOS	1
992.50	HEAT EXHAUSTION NOS	1
540.90	ACUTE APPENDICITIS NOS	1
550.90	UNILAT INGUINAL HERNIA	1
918.10	SUPERFICIAL INJ CORNEA	1
465.90	ACUTE URI NOS	1
535.50	GASTRITIS AND GASTRODUODENITIS W/OUT HEMORRHAGE	1
533.10	ACUTE PEPTIC ULCER WITH PERFORATION	1
346.90	MIGRAINE UNPSECIFIED	1
410.90	ACUTE MYOCARDIAL INFARCTION OF UNSPECIFIED SITE	1
451.90	THROMBOPHLEBITIS NOS	1
592.90	URINARY CALCULUS NOS	1
575.10	CHOLECYSTITIS NOS	1
436.00	CEREBROVASCULAR ACCIDENT	1
250.00	DIABETES MELLITUS W/O COMPLICATION TYPE II	1
V22.20	NORMAL PREGNANCY	1
298.90	PSYCHOSIS NOS	1
308.30	OTHER ACUTE REACTIONS TO STRESS	1
308.90	UNSPECIFIED ACUTE REACTION TO STRESS	1
802.80	FX FACIAL BONE NEC-CLOSE	1
873.40	OPEN WOUND OF FACE NOS	1
941.19	1ST DEG BURN HEAD-MULT	1

ICD-9 code	ICD-9 description	No. patients
941.29	2ND DEG BURN HEAD-MULT	1
810.00	FX CLAVICLE NOS-CLOSED	1
812.00	FRACTURE OF UPPER END OF HUMERUS CLOSED	1
881.00	OPEN WOUND OF FOREARM	1
815.19	MULT FX METACARPUS-OPEN	1
887.00	AMPUT BELOW ELB, UNILAT	1
887.10	AMPUT BELOW ELB, UNILAT, COMPLICATED	1
943.19	1ST DEG BURN ARM-MULT	1
879.20	OPN WND ANTERIOR ABDOMEN	1
864.01	LIVER HEMATOMA/CONTUSION	1
877.00	OPEN WOUND OF BUTTOCK	1
922.40	CONTUSION GENITAL ORGANS	1
821.01	FX FEMUR SHAFT-CLOSED	1
890.00	OPEN WOUND OF HIP/THIGH	1
891.00	OPEN WND KNEE/LEG/ANKLE	1
823.92	INJURY LEG VESSEL NOS	1
894.10	MULTIPLE AND UNSPECIFIED OPEN WOUND OF LOWER LIMB COMPLICATED	1
824.80	FX ANKLE NOS-CLOSED	1
824.90	FX ANKLE NOS-OPEN	
904.80	INJURY BLOOD VESSELS OF LOWER EXTREMITY	1
825.30	FRACTURE FOOT(EXCEPT TOES) OPEN	
956.80	INJURY NERVE(S) OF PELVIC GIRDLE AND LOWER LIMB	
928.90	CRUSHING INJURY LEG NOS	1
897.00	AMPUT BELOW KNEE, UNILAT	1
897.30	AMPUT ABV KN, UNIL-COMPL	1

ICD-9 code	ICD-9 description	No. patients
860.50	TRAUM PNEUMOHEMOTHOR-OPN	
818.10	FX ARM MULT/NOS-OPEN	
827.10	FX LOWER LIMB NEC-OPEN	1
904.80	INJURY LEG VESSEL NOS	
903.90	INJURY ARM VESSEL NOS	
870.90	OPEN WND OCULAR ADNEXA NOS	1
891.00	OPEN WND KNEE/LEG/ANKLE	1
368.12	TRANSIENT VISUAL LOSS	1
994.80	EFFECTS OF ELECTRIC CURRENT	1
Total:		50

Appendix B.
Recommended FFQDM Allowance Standard Configuration

Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
Equipment											
A	6530002998353	BACK REST LITTER NONADJ ALUM/CTN DUCK 45X24IN	EA	3	3	12.00	1.48	\$558.18	12.00	1.48	\$558.18
D	6515015185955	BATTERY LEAD ACID XL SMART READY LEAD F/6515015154197	EA	2	0	8.00	0.50	\$360.00	0.00	0.00	\$0.00
A	6515006560475	BLADE LARYNGOSCOPE MILLER PREMMIE SIZE 0	EA	2	2	0.02	0.00	\$207.30	0.02	0.00	\$207.30
A	6545009111300	BLANKET SET BED	SE	1	1	47.40	4.00	\$474.74	47.40	4.00	\$474.74
A	6530014602567	BOARD CARIO-PULMONA CONTOURED RECESSED HANDLE	EA	1	1	1.25	0.02	\$94.02	1.25	0.02	\$94.02
A	8460014147271	BRIEF CASE	EA	2	2	10.00	4.00	\$200.00	10.00	4.00	\$200.00
A	6150NCM093428	CABLE ELECTRICAL ASSEMBLY	SE	1	1	60.00	5.00	\$2,510.00	60.00	5.00	\$2,510.00
D	6515014776078	CASE ACLS DRUG 20.5"O/A LG 16.75"W 8.5"H ORANGE	EA	1	0	3.60	2.70	\$499.98	0.00	0.00	\$0.00
A	6515014776165	CASE ADMIN DIAGNOSTIC 28.5"X 12.5"X 12.5IN CORDORA	EA	1	1	1.60	1.20	\$133.70	1.60	1.20	\$133.70
A	6515014776128	CASE AIRWAY INCL BG PLAST INSERT LARYNGOSCOPE	EA	2	2	4.20	2.80	\$338.00	4.20	2.80	\$338.00
A	6515015708379	CASE CARRYING CLIP UNIVERSAL MEDICAL	EA	1	1	2.00	0.36	\$163.78	2.00	0.36	\$163.78
A	6515015007559	CASE CATH CORDURA NYLON PART OF IV SYS SET	EA	2	2	0.50	0.24	\$34.72	0.50	0.24	\$34.72

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item; G = not modeled

Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
A	6515015182613	CASE CATHETER IV SUPP GREEN F/14161820 GA	EA	6	6	6.90	0.66	\$209.34	6.90	0.66	\$209.34
A	6515014738678	CASE DRUG 21.75INX17INX8IN HINGED HARD PLSTC	EA	1	1	0.50	1.50	\$226.40	0.50	1.50	\$226.40
A	6515014776124	CASE SUPPLY IV MAIN BAG INSERT SUPP	EA	2	2	4.20	3.04	\$352.70	4.20	3.04	\$352.70
A	6515014776146	CASE URINAL BEDPAN GEAR BAG PLASTIC INSERT	EA	2	2	2.40	1.18	\$156.50	2.40	1.18	\$156.50
A	6515015186016	CHARGER BATTERY M SERIES EXT PAD ZOLL DEFIB	EA	1	1	10.00	1.20	\$506.00	10.00	1.20	\$506.00
A	6530015419125	CLIP UNIVERSAL AIRWAY TIDY	EA	4	4	2.64	0.44	\$376.76	2.64	0.44	\$376.76
A	6530015419123	CLIP UNIVERSAL MEDICAL	EA	8	8	5.28	0.96	\$857.84	5.28	0.96	\$857.84
A	6530015419126	CLIP UNIVERSAL MEDICAL BAG HOLDER	EA	9	9	4.95	1.08	\$319.50	4.95	1.08	\$319.50
A	6530015419187	CLIP UNIVERSAL MEDICAL LINE SEPARATOR	EA	3	3	0.57	0.30	\$134.76	0.57	0.30	\$134.76
A	6530015419164	CLIP UNIVERSAL MEDICAL WASTE BAG SUPPORT	EA	2	2	0.64	0.22	\$176.78	0.64	0.22	\$176.78
G	5895NCM082858	COMMUNICATION KIT AIRCREW	KT	7	7	35.00	3.50	\$20,587.00	35.00	3.50	\$20,587.00
G	6130NCM093603	CONVERTER FREQUENCY MEDI	EA	1	1	47.00	2.00	\$22,467.00	47.00	2.00	\$22,467.00
A	6515015161519	DEFIBRILLATOR MONITOR & RECORDER	EA	1	1	12.00	1.40	\$25,058.00	12.00	1.40	\$25,058.00
G	6150NCM000239	ELECTRICAL CABLE ASSEMBLY	EA	0	1	0.00	0.00	\$0.00	10.00	5.00	\$2,500.00
A	5965014461044	FILTER ACOUSTICAL	EA	7	7	7.00	3.50	\$84.00	7.00	3.50	\$84.00

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item; G = not modeled

Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
G	1670004637478	FITTING CARGO	EA	6	6	30.00	6.00	\$414.00	30.00	6.00	\$414.00
C	6230009264331	FLASHLIGHT W/CONE SHAP TRAFFIC BATON 30.50	EA	4	2	4.00	0.04	\$35.64	2.00	0.02	\$17.82
A	6515013543969	FLOWMETER OXYGEN TAPERED INNER FLOWTUBE ULTRA	EA	14	14	7.00	0.28	\$372.96	7.00	0.28	\$372.96
A	6515003349500	FORCEP HEMO PEAN SLIGHTLY CURVED JAW 9IN	EA	4	4	1.40	1.40	\$222.00	1.40	1.40	\$222.00
A	6515013686299	FORCEPS TRACHEAL TUBE MAGILL DESIGN 8IN CHILD	EA	2	2	1.30	0.10	\$16.00	1.30	0.10	\$16.00
A	6515003323300	FORCEPS TRACHEAL TUBE MAGILL FENESTRATED	EA	2	2	0.40	0.40	\$274.42	0.40	0.40	\$274.42
G	6130NCM040691	FREQUENCY CONVERTER PORTABLE MODIFIED	EA	0	1	0.00	0.00	\$0.00	0.65	0.65	\$11,000.00
A	5920014688315	FUSE PLUG END ITEM 6530014640267	EA	4	4	0.44	1.80	\$3.24	0.44	1.80	\$3.24
A	6532001178247	GOWN HOSPITAL PT UNIVERSAL SIZE FULL LEN	EA	4	4	3.08	0.34	\$38.44	3.08	0.34	\$38.44
A	6515013964249	HANDLE LARYNGOSCOPE PED 2 AA BATT	EA	2	2	0.56	0.02	\$48.32	0.56	0.02	\$48.32
A	6230NCM021288	HEADLAMP PETZL TIKKA LED	EA	4	4	4.00	0.04	\$139.80	4.00	0.04	\$139.80
C	6515015590741	HOLDER INJ SYRINGE PLAS REUSABLE	EA	3	2	0.18	0.09	\$0.36	0.12	0.06	\$0.24
A	6515013543970	HOSE ASSEMBLY OXYGEN INCLUDES MALE & FEMALE C	EA	16	16	16.00	6.40	\$368.96	16.00	6.40	\$368.96
A	6515013381838UM	HUMIDIFIER INHALATION THERAPY APPAR HUDSON 34	EA	14	14	280.00	15.40	\$488.04	280.00	15.40	\$488.04
A	6515005842893	INFUSOR PRESSURE BLOOD/FLUID IV BAG	EA	2	2	1.50	0.13	\$259.88	1.50	0.13	\$259.88

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item; G = not modeled

Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
A	6530015615482	KEY RESTRAINT APPART LOCK W/6530015615453	EA	2	2	0.88	0.20	\$9.80	0.44	0.20	\$9.80
A	6515006165052	LARYNGOSCOPE MAC INF/ADL 4 DET BLADES W/BTRY	EA	2	2	6.00	2.00	\$82.90	6.00	2.00	\$82.90
A	6530015527708	LITTER FOLDING POLE OVERSIZED 90X31X6IN	EA	1	1	5.00	0.38	\$589.00	5.00	0.38	\$589.00
A	6530013807309	LITTER FOLDING RIGID ALUM POLE PLAS NYLON DUC	EA	3	3	15.00	1.13	\$714.54	15.00	1.13	\$714.54
A	6515013429182	MANIFOLD ASSEMBLY O2 DELIVERY W/ CASE	EA	4	4	48.00	7.80	\$476.76	48.00	7.80	\$476.76
A	6530015480262	MATTRESS LITTER F/AEROMEDICAL PT TRANSFER	EA	3	3	6.00	5.33	\$795.00	6.00	5.33	\$795.00
A	6515014409394	MONITOR OXYGEN PORTABLE	EA	1	1	2.70	0.42	\$762.39	2.70	0.42	\$762.39
A	6515014322711	MONITOR PATIENT VITAL SIGNS	EA	1	1	10.00	1.00	\$22,536.86	10.00	1.00	\$22,536.86
A	6515001656544	OTOSCOPE & OPHTHALMOSCOPE SET	SE	1	1	1.32	1.00	\$476.67	1.32	1.00	\$476.67
A	6515015352728	OXIMETER PULSE (NONIN ONYX II)	EA	4	4	2.00	0.08	\$2,136.16	2.00	0.08	\$2,136.16
A	6515014896155	OXIMETER PULSE 120/230V AC/BATTERY OPERATED	EA	1	1	1.19	0.20	\$1,456.25	1.19	0.20	\$1,456.25
A	6515014864310	PUMP IV INFUSION 3-CHANNEL BATT/AC	EA	1	1	4.90	0.37	\$5,768.90	4.90	0.37	\$5,768.90
C	6530015615453	RESTRAINT SET WRIST AND ANKLE	SE	4	2	4.00	0.48	\$460.80	2.00	0.24	\$230.40
C	6530011536493	RESTRAINT SET WRIST AND/OR ANKLE W/ADJUSTABLE STR	PR	4	2	1.96	0.11	\$43.48	0.98	0.06	\$21.74

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item; G = not modeled

Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
A	6515012985136	RESUSCITATOR HAND OPERATED INFANT SIZE 240ML	EA	2	2	1.84	0.34	\$443.32	1.84	0.34	\$443.32
A	6515012090698	RESUSCITATOR HAND- POWERED CHILD SIZE	EA	2	2	6.00	1.40	\$278.08	6.00	1.40	\$278.08
A	6515014776141	ROLL PACK DRESSING ORGANIZER PROTECTS	EA	2	2	3.00	3.60	\$225.40	3.00	3.60	\$225.40
A	6515014776134	ROLL PACK TRANSPORTS PATIENT COMFORT ITEMS	EA	2	2	2.40	3.60	\$212.32	2.40	3.60	\$212.32
A	6515009357138	SCISSOR BANDAGE ANGLED 7.25IN	EA	4	4	1.00	0.48	\$51.16	1.00	0.48	\$51.16
A	5120000602004	SCREWDRIVER CROSS TIP PLASTIC HDL 4IN PHILLIP	EA	2	2	0.02	0.02	\$5.04	0.02	0.02	\$5.04
A	5120002872505	SCREWDRIVERFLAT TIP PLASTIC HDL IN	EA	2	2	0.02	0.02	\$5.04	0.02	0.02	\$5.04
A	6515013181535	SENSOR OXYGEN MONITORING PLASTIC	EA	1	1	0.20	0.12	\$86.47	0.20	0.12	\$86.47
A	6515012891967	SPHYGMOMANOMETER ANEROID MULTI-CUFF KIT	EA	2	2	0.84	0.10	\$327.54	0.84	0.10	\$327.54
A	6515009354088	STETHOSCOPE ADL 24IN TWO POSN	EA	2	2	1.40	0.60	\$54.16	1.40	0.60	\$54.16
A	6515014698665	STETHOSCOPE ELECTRON LITTMANN CARDIOLOGY III	EA	1	1	0.88	0.12	\$173.00	0.88	0.12	\$173.00
A	6515011910956	STETHOSCOPE ULTRASOUND	EA	1	1	1.00	0.16	\$479.00	1.00	0.16	\$479.00
A	5340NCM072136	STRAP RETAINING	EA	36	36	18.00	1.80	\$102.60	18.00	1.80	\$102.60
A	6530007844205	STRAP WEB LITTER PATIENT SECURING	EA	50	50	40.50	1.25	\$879.00	40.50	1.25	\$879.00
A	6515015316051	SUCTION APPARATUS SURG BAT 11-30V/AC	EA	3	3	36.00	16.67	\$6,630.00	36.00	16.67	\$6,630.00

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item; G = not modeled

Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
A	6515014582876	SYRINGE EAR 8 OZ CAP POLITZER W/RUBBER BULB	EA	2	2	2.00	0.80	\$239.64	2.00	0.80	\$239.64
A	6530015112702	TANK O2 STORAGE MOBILE 10K LITERS	EA	2	2	300.00	8.50	\$53,873.36	300.00	8.50	\$53,873.36
A	6515008669113	TEST LUNG RESPIRATOR FSCM14308 MFRN0612	EA	1	1	0.30	0.01	\$34.04	0.30	0.01	\$34.04
A	6515014995906	THERMOMETER CLIN HUMAN ORAL/RECTAL DIGITAL	EA	2	2	0.16	0.16	\$13.98	0.16	0.16	\$13.98
A	5120004498083	WRENCH ADJ STEEL 10IN LONG	EA	4	4	0.40	0.00	\$39.96	0.40	0.00	\$39.96
A	5120000974136	WRENCH BOX ALUM 5IN 2 SLOTS	EA	2	2	0.30	0.00	\$36.00	0.30	0.00	\$36.00
Medication											
A	6505012013458	ACETAMINOPHEN ORAL SOL BT 118ML	BT	1	1	0.01	0.00	\$0.01	0.01	0.00	\$0.01
A	6505015302679	ACETAMINOPHEN TAB 325MG 100S	BT	1	1	0.55	0.12	\$0.49	0.55	0.12	\$0.49
C	6505015303307UM	ADENOSINE INJ 3MG/ML NEEDLESS SYR 2ML 10S	EA	5	1	0.28	0.06	\$165.87	0.06	0.01	\$33.17
A	6505012579953	ALBUTEROL SULF INHALAT SOL 20ML	BT	1	1	0.13	0.73	\$4.37	0.13	0.73	\$4.37
A	6505015330462	ALUMINA MAGN&SIMETH SUSP 150 ML	BT	1	1	3.55	0.02	\$8.69	3.55	0.02	\$8.69
C	6505014232851UM	AMIODARONE INJ 50MG/ML 3ML AMP 10S	AM	4	1	0.46	0.00	\$410.42	0.12	0.00	\$102.61
C	6505012468732UM	ARTIFICIAL TEARS SOLUTION 0.3ML 30S	EA	12	7	0.07	0.01	\$3.46	0.04	0.00	\$2.02
D	6505001009985	ASPIRIN TAB 325MG 100S	BT	1	0	0.14	0.01	\$1.49	0.00	0.00	\$0.00

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
A	6505010339866	ASPIRIN TAB 81MG FLAVORED CHEW 36S	BT	1	1	0.00	0.00	\$0.02	0.00	0.00	\$0.02
C	6505010946196UM	ATROPINE SULF INJ 0.1MG/ML 10ML SYR-NLD 10S	BT	5	1	0.70	0.06	\$8.66	0.14	0.01	\$1.73
A	6505014933826UM	BACITRACIN & POLYMYXIN B SO4 OINT 1/32OZ 144S	EA	6	6	0.02	0.01	\$0.50	0.02	0.01	\$0.50
A	6505007850307UM	BENZTROPINE MESYLATE INJ 1MG/ML 2ML AMP 5S	AM	3	3	0.09	0.06	\$22.86	0.09	0.06	\$22.86
C	6505015037386UM	CALCIUM CHL 100MG/ML 10ML 10S	VI	2	1	0.20	0.14	\$3.96	0.10	0.07	\$1.98
C	6505012192760UM	CEFTRIAZONE SODIUM 1GM VI 10S	VI	2	1	0.14	0.30	\$84.04	0.07	0.15	\$42.02
D	6505015055923UM	CHLORPROMAZINE HCL INJ 25MG/ML 2ML 25S	AM	2	0	0.03	0.00	\$12.71	0.00	0.00	\$0.00
C	6505015274077	CODEINE & ACETAMINOPHEN TABS BLIS PK 100S	BT	2	1	0.01	0.00	\$0.14	0.01	0.00	\$0.07
A	6505014926420UM	DEXAMETHASONE SODIUM 4MG/ML 5ML VI 25S	VI	2	2	0.02	0.03	\$2.53	0.02	0.03	\$2.53
A	6505015015408UM	DEXTROSE INJ 50% 50ML CART-NDL 50S	EA	2	2	0.14	0.01	\$1.43	0.14	0.01	\$1.43
C	6505013306254UM	DEXTROSE INJECTION USP 5% 500ML 24S	EA	4	2	0.98	0.02	\$1.96	0.49	0.01	\$0.98
A	6505015053476	DIAZEPAM INJ 5MG/ML 2 ML 10S	PG	2	2	0.40	0.20	\$39.70	0.40	0.20	\$39.70
C	6505010985802	DIAZEPAM TAB 5MG INDIVIDUAL SEALED 100S	PG	2	1	0.80	0.10	\$4.06	0.40	0.05	\$2.03
A	6505001168350	DIPHENHYDRAMINE HCL 50MG CAP 100S	BT	1	1	0.28	0.01	\$1.60	0.28	0.01	\$1.60
B	6505015182962UM	DIPHENHYDRAMINE HYDROCH 50MG/ML 1ML CARP 10S	EA	5	6	0.28	0.06	\$7.26	0.33	0.07	\$8.71

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
C	6505014917667UM	DOBUTAMINE INJ 12.5MG/ML 20ML VI 10S	VI	2	1	0.16	0.02	\$6.76	0.08	0.01	\$3.38
C	6505011494089UM	DOPAMINE HCL INJ 5ML VI 25S	VI	4	1	0.18	0.02	\$11.17	0.05	0.00	\$2.79
C	6505015273957UM	EPINEPHRINE INJ 0.1 MG/ML 10ML 10S	EA	10	1	1.16	0.07	\$25.54	0.12	0.01	\$2.55
C	6505002998760UM	EPINEPHRINE INJ AQUEOUS 1ML AMP 25S	EA	5	1	0.03	0.02	\$7.97	0.01	0.00	\$1.59
C	6505015027737UM	ESMOLOL HCL INJ 10MG/ML 10ML VI 25S	VI	3	1	0.06	0.02	\$87.94	0.02	0.01	\$29.31
A	6505013548591UM	FLUMAZENIL INJ 0.1MG/ML 10ML VI 10S	VI	1	1	0.00	0.01	\$147.77	0.00	0.01	\$147.77
C	6505015250326UM	FUROSEMIDE INJ 10MG/ML 10ML 25S	VI	5	1	0.20	0.00	\$2.61	0.04	0.00	\$0.52
C	6505002688530UM	HALOPERIDOL INJ 5MG/ML 1ML AMP 10S	AM	5	1	0.07	0.05	\$51.08	0.01	0.01	\$10.22
A	6505001538480	HYDROGEN PEROXIDE TOPICAL SOL 1PINT	BT	1	1	1.10	0.20	\$11.27	1.10	0.20	\$11.27
A	6505015060484UM	HYDROXYZINE HCL INJ 50MG/ML 10ML VI 25S	VI	1	1	0.04	0.01	\$0.79	0.04	0.01	\$0.79
A	6505013165049	IBUPROFEN ORAL SUSP 100MG/5ML 20ML BT	BT	1	1	0.00	0.00	\$0.09	0.00	0.00	\$0.09
A	6505012149061	IBUPROFEN TAB 800 MG TAB 100S	BT	1	1	0.01	0.01	\$0.04	0.01	0.01	\$0.04
C	6505011171996UM	ISOPROTERENOL HCL INJ .2MG/ML 1ML AMP 25S	AM	2	1	0.00	0.00	\$7.35	0.00	0.00	\$3.68
B	6505014821064UM	KETOROLAC TROMETHAMINE INJ 30MG/ML 1ML 10S	EA	4	11	0.16	0.04	\$22.82	0.44	0.11	\$62.77
G	6505015019585	LAMIVADINE 150MG-ZIDOVADINE 300MG HIV 6S	PG	1	1	0.55	0.12	\$10.42	0.55	0.12	\$10.42

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
A	6505011947265UM	LIDOCAINE HCL 0.4% & D5W INJ 500ML BAG 18S	EA	1	1	1.36	0.05	\$7.23	1.36	0.05	\$7.23
D	6505015332656UM	LIDOCAINE HCL INJ 2% 5ML 10S	EA	3	0	0.06	0.01	\$1.14	0.00	0.00	\$0.00
A	6505005986116	LIDOCAINE HCL INJ 1.0%/ML 50ML	BT	1	1	0.25	0.10	\$19.22	0.25	0.10	\$19.22
A	6505010666568	LOPERAMIDE HCL CAPS 2MG 100S	BT	1	1	0.10	0.10	\$6.89	0.10	0.10	\$6.89
C	6505013120914	LORAZEPAM TAB 1MG I.S. 100S	PG	2	1	1.76	0.02	\$74.76	0.88	0.01	\$37.38
C	6505001117829UM	LUBRICANT SURGICAL 5 GRAM 144S	EA	20	2	0.13	0.01	\$3.48	0.01	0.00	\$0.35
C	6505015168407UM	MAGNESIUM SULFATE INJ 10S	EA	2	1	0.20	0.17	\$11.25	0.10	0.09	\$5.62
B	6505009262111	MECLIZINE HCL TAB CHEW 25 MG 100S	BT	1	2	0.00	0.00	\$0.06	0.00	0.00	\$0.11
B	6505015054693	MEPERIDINE HCL INJ 100MG/ML 1ML 10S	PG	2	10	0.11	0.03	\$1.62	0.55	0.15	\$8.10
C	6505014925896UM	METHYLPREDNISOLONE SOD SUCC INJ 125MG	EA	8	2	0.18	0.04	\$12.30	0.04	0.01	\$3.08
C	6505013092742UM	METOPROLOL TARTRATE INJ 1MG/ML 5ML AMPS 12S	AM	3	1	0.03	0.00	\$2.39	0.01	0.00	\$0.80
A	6505010906797	METOPROLOL TARTRATE TAB 50MG 100S	BT	1	1	0.34	0.10	\$4.65	0.34	0.10	\$4.65
C	6505015055813	MORPHINE SULF INJ 10MG/ML 1ML 10S	PG	8	2	2.00	1.20	\$82.32	0.50	0.30	\$20.58
C	6505015527718	MORPHINE SULF INJ 4MG/ML 1ML CARPUJECT 10S	PG	8	2	5.28	1.44	\$134.00	1.32	0.36	\$33.50

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
C	6505000797867UM	NALOXONE HCL INJ .4MG/ML 1ML AMP 10S	AM	6	1	0.07	0.03	\$2.91	0.01	0.01	\$0.49
A	6505014860542	NITROGLYCERIN LINGUAL AEROSOL 0.4MG	EA	1	1	0.50	0.10	\$29.01	0.50	0.10	\$29.01
A	6505010083401	NITROGLYCERIN OINTMENT 2% TUBE 60GM	TU	1	1	0.26	0.01	\$4.47	0.26	0.01	\$4.47
C	6505013625340	OXYCODONE AND ACETAMINOPHEN TAB 100S	PG	2	1	0.00	0.00	\$0.65	0.00	0.00	\$0.32
C	6505008694177	OXYMETAZOLINE HCL NASAL SOLUTION 15ML	BT	5	1	0.50	0.50	\$5.20	0.10	0.10	\$1.04
A	6505015084409	PHENOBARBITAL SOD60MG/ML 1ML 10S	PG	2	2	4.00	0.40	\$68.74	4.00	0.40	\$68.74
C	6505011583628	PHENOBARBITAL TAB 100MG 100S	BT	2	1	0.14	0.02	\$13.86	0.07	0.01	\$6.93
C	6505011534451	PHENYLEPHRINE HCL NASAL SOL .25% 15ML BT	BT	2	1	0.22	0.02	\$7.00	0.11	0.01	\$3.50
C	6505001049320UM	PHENYLEPHRINE HCL INJEC 1% 1 ML 25S	AM	5	1	0.09	0.02	\$23.63	0.02	0.00	\$4.73
C	6505013329024UM	PHENYTOIN SOD INJ 50MG/ML 5ML VI 25S	VI	5	1	0.20	0.00	\$0.87	0.04	0.00	\$0.17
B	6505006807352UM	PROMETHAZINE HCL INJ 25MG/ML 1ML AMP 25S	AM	5	11	0.05	0.02	\$4.43	0.11	0.04	\$9.74
A	6505013648557	PROMETHAZINE HCL TAB 25MG 100S	BT	2	2	0.00	0.00	\$1.29	0.00	0.00	\$1.29
A	6505001490098	PSEUDOEPHEDRINE HCL TAB 30MG 24	PG	1	1	0.00	0.00	\$0.04	0.00	0.00	\$0.04
C	6505014623025UM	RINGER'S INJ LACTATED 1000ML 14S	EA	10	3	21.32	2.14	\$16.92	6.39	0.64	\$5.08
C	6505001394561UM	SODIUM BICARBONATE INJ 50ML 10S	BT	2	1	0.26	0.06	\$3.43	0.13	0.03	\$1.72

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
C	6505013308924UM	SODIUM CHL INJ 0.9% 100ML BAG 64S	EA	20	8	4.06	0.63	\$26.70	1.63	0.25	\$10.68
C	6505012870626UM	SODIUM CHL INJ 0.9% 10ML VI 25S	VI	10	2	0.10	0.00	\$2.71	0.02	0.00	\$0.54
C	6505013306269UM	SODIUM CHL INJ 1000ML BAG 12S	EA	10	7	20.00	2.50	\$9.65	14.00	1.75	\$6.76
C	6505015312894UM	SODIUM CHL INJ 10ML SYR120S	EA	25	23	2.92	0.83	\$18.84	2.68	0.77	\$17.34
A	6505006828194	TRIAMCINOLONE ACETONIDE CREAM 0.1% 15 GM	TU	2	2	0.20	0.20	\$1.54	0.20	0.20	\$1.54
C	6505015242691UM	VASOPRESSIN INJ 20/ML 1ML VI 25S	VI	4	1	0.09	0.02	\$25.85	0.02	0.00	\$6.46
C	6505011313855	VERAPAMIL HCLINJ 5MG/2ML VI 5S	PG	2	1	0.61	0.20	\$7.54	0.31	0.10	\$3.77
C	6505010750679UM	WATER FOR IRRIGATION STER 1000ML BT 12S	EA	2	1	5.03	0.15	\$1.89	2.52	0.08	\$0.95
Consumables											
C	6515015186021UM	ADAPTER AIRWAY SINGLE PATIENT USE	EA	8	1	1.52	0.89	\$520.00	0.19	0.11	\$65.00
B	6515014806611	ADAPTER O2 FEMALE O2 DISS HEX ADAPTER	EA	4	12	0.40	0.40	\$35.00	1.20	1.20	\$105.00
C	6515013311567UM	ADAPTER O2 NUT-NIPPLE INLET HOSE 50S	EA	20	12	0.40	0.01	\$0.26	0.24	0.01	\$0.15
B	6515011732039UM	ADAPTER T AEROSOL THERAPY 22MM ID ODORLESS 50	EA	10	12	0.30	0.03	\$2.91	0.36	0.04	\$3.49
C	6515014502021UM	ADMIN SET INFUSION PUMP 20S	SE	4	2	0.60	0.20	\$45.52	0.30	0.10	\$22.76
C	6515014502045UM	ADMIN SET INFUSION PUMP U/W MEDSYS III 50S	EA	10	2	30.00	10.00	\$4,549.10	6.00	2.00	\$909.82

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
C	6515013215211	AIRWAY KIT PERCUTAN EMERG ADULT 1S	EA	2	1	0.40	0.10	\$376.22	0.20	0.05	\$188.11
A	6515012598263	AIRWAY PHARYNGEAL SET INFANT-LG ADULT DISP	SE	2	2	0.40	0.11	\$53.36	0.40	0.11	\$53.36
C	6515NCM072091UM	AIRWAY SUPRAGLOTTIC SIZE 3	EA	2	1	0.20	0.20	\$24.00	0.10	0.10	\$12.00
C	6515NCM072090UM	AIRWAY SUPRAGLOTTIC SIZE 4	EA	2	1	0.20	0.20	\$24.00	0.10	0.10	\$12.00
C	6515NCM072089UM	AIRWAYSUPRAGLOTTIC SIZE 5	EA	2	1	0.20	0.20	\$24.00	0.10	0.10	\$12.00
B	6510011660156UM	APPLICATOR GLYCERIN-LEMON OIL 4IN 75S	EA	20	22	0.27	0.00	\$0.70	0.29	0.00	\$0.77
C	8105008357212UM	BAG MOTION SICK 1000S	EA	50	1	0.50	0.05	\$8.58	0.01	0.00	\$0.17
A	8105011839768UM	BAG PLAS 39X33IN 33 GAL 125S	EA	20	20	1.28	0.06	\$2.96	1.28	0.06	\$2.96
C	6530015239241UM	BAND PERSONAL ID ADULT PLAS 500S	EA	80	17	0.80	0.32	\$32.00	0.17	0.07	\$6.80
C	6510005977469UM	BANDAGE ADH.75X3IN STER DRESS 100S	EA	60	9	0.16	0.01	\$3.09	0.02	0.00	\$0.46
A	6510009355822UM	BANDAGE ELASTIC D ACE 4INX4.5YDS 12S	EA	6	6	1.00	0.50	\$8.83	1.00	0.50	\$8.83
C	6510000583047UM	BANDAGE GAUZE 6-PLY ROLLED 4YDX4.5IN 100S	RO	12	6	0.60	0.24	\$21.35	0.30	0.12	\$10.68
C	6510002011755	BANDAGE MUSLIN COMPRESS OLIVE 37X37X52IN	EA	12	5	1.50	2.78	\$24.84	0.63	1.16	\$10.35
B	6530011665112UM	BEDPAN PLASTIC	EA	4	10	0.06	0.02	\$2.17	0.16	0.05	\$5.42
C	6510015016024UM	BENZOIN TINCTURE IMPREG APPLIC IND WRAP	EA	20	7	2.00	2.00	\$4.00	0.70	0.70	\$1.40

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C	7210009356666	BLANKET CASUALTY PLAST FILM & ALUM 95X56IN	EA	10	2	1.60	0.10	\$42.30	0.32	0.02	\$8.46
C	6532015254063UM	BLANKET HEATING DISP 90X120CM WATER REPEL 4S	EA	4	3	3.75	0.45	\$25.00	2.81	0.34	\$18.75
C	6515014885514UM	BLOOD RECIPIENT SET INDIRECT TRANSFUSION 48S	EA	4	3	0.35	0.16	\$13.57	0.26	0.12	\$10.18
C	6515014372532UM	CANNULA NASAL O2 CURVED TIP 7FT 50S	EA	20	7	0.04	0.00	\$7.60	0.01	0.00	\$2.66
B	6515012885438UM	CANNULA NASAL O2 PLAS 84IN LG PED 50S	EA	6	7	0.01	0.00	\$8.07	0.01	0.00	\$9.42
C	6515013909627UM	CATH & NDL IV 14GAX1.25IN 200S	EA	20	2	0.20	0.03	\$53.11	0.02	0.00	\$5.31
C	6515013909654UM	CATH & NDL IV 18GAX1.25IN 200S	EA	24	2	0.24	0.04	\$47.24	0.02	0.00	\$3.94
C	6515013909650UM	CATH & NDL IV 20GAX1.25IN 200S	EA	24	2	0.24	0.04	\$59.16	0.02	0.00	\$4.93
C	6515013909647UM	CATH & NDL IV 22GA CRS BLUE 200S	EA	20	2	0.20	0.03	\$57.00	0.02	0.00	\$5.70
C	6515013909636UM	CATH & NDL IV 24 GA 200S	EA	20	2	1.07	0.00	\$45.46	0.11	0.00	\$4.55
C	6515013909643UM	CATH & NDL IV 16GAGE 200S	EA	24	2	0.24	0.04	\$49.41	0.02	0.00	\$4.12
C	6515001490104UM	CATH KIT URETHRAL 16FR	EA	4	2	2.76	0.55	\$139.12	1.38	0.27	\$69.56
B	6515015249755	CLEAN-UP KIT BLOOD AND FLUID	KT	4	5	10.00	12.00	\$43.12	6.25	15.00	\$53.90
B	6515011972946UM	CONNECTOR O2 TUBING ONEWAY STRAIGHT SMALL 50S	EA	10	12	0.06	0.01	\$1.28	0.07	0.01	\$1.54
B	6515009269201UM	CONNECTOR TUBING STRAIGHT 50S	EA	10	12	0.13	0.01	\$7.04	0.16	0.01	\$8.45

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
B	6515015188551	CONTAINER SHARPS STORAGE	EA	8	9	0.96	0.08	\$24.48	1.08	0.09	\$27.54
C	6515013738659UM	COVER ELECTRONIC THERMOMETER DISP 100S	EA	200	138	0.40	0.02	\$7.98	0.28	0.01	\$5.51
C	7350009886498UM	CUP DISP ROUND 8OZ PAPER WHITE 1000S	EA	100	44	1.00	0.20	\$4.22	0.44	0.09	\$1.86
C	6530000000070UM	CUP MEDICINE PLAS 1 OZ POLYPRO 5000S	EA	50	42	0.25	0.02	\$0.25	0.21	0.01	\$0.21
C	6515003245500UM	DEPRESSOR TONGUE 6X0.75X0.062IN STRAIGHT 100S	EA	50	6	0.33	0.05	\$1.54	0.04	0.01	\$0.18
C	6515013682874UM	DETECTOR END-TIDAL CO2 ADULT 6S	EA	2	1	0.50	0.20	\$21.96	0.25	0.10	\$10.98
F	6505010564031	DETERGENT SURG 4% CHLORHEX GLUCONATE 4OZ	BT	0	1	0.00	0.00	\$0.00	0.33	0.02	\$3.84
B	6530011726990UM	DISPOSAL CONTAINER HYPODERMIC 60S	EA	2	3	0.10	0.01	\$3.02	0.15	0.01	\$4.53
A	6515015274681UM	DRAINAGE UNIT PLEURAL CAVITY DRY SUCTION 6S	EA	2	2	0.67	0.63	\$96.50	0.67	0.63	\$96.50
B	6510011532857UM	DRESSING BURN 24X36IN STERILE ABS15S	EA	2	3	0.67	0.43	\$10.82	1.00	0.64	\$16.23
C	6510011018936UM	DRESSING OCCLUSIVE ADH CLEAR 3X2IN 100S	EA	34	6	0.29	0.01	\$21.66	0.05	0.00	\$3.82
C	6510015064608	DRESSING PRESSURE FIELD PAD 11.75X11.75IN	EA	8	2	8.00	8.00	\$49.92	2.00	2.00	\$12.48
C	6510015064604	DRESSING PRESSURE PAD COTTON 7.5X8IN	EA	20	2	11.00	6.00	\$91.00	1.10	0.60	\$9.10
C	6515015092920UM	ELECTRODE SET 12-LEADS ECG 6/PK 100S	PO	4	1	0.01	0.00	\$3.84	0.00	0.00	\$0.96
C	6515014502077UM	EXTENSION SET IV ADMIN 2 COMP 100S	EA	20	4	1.00	0.20	\$57.83	0.20	0.04	\$11.57

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
B	6515014705735UM	EXTENSION SET IV ADMINISTRATION 100S	EA	2	4	0.10	0.02	\$6.60	0.20	0.04	\$13.20
C	6515015257142	FILTER EXHALATION UNIVERSAL HEPA	EA	18	12	22.50	15.30	\$270.00	15.00	10.20	\$180.00
C	6515015099417UM	FILTER MEDIA SUCTION CANNISTER 10S	EA	6	5	1.20	0.66	\$42.86	1.00	0.55	\$35.72
C	6510002020800UM	GAUZE PETROLATUM ACCORD 18X3IN 12S	EA	10	6	0.37	0.02	\$12.83	0.22	0.01	\$7.70
A	6515011534971UM	GEL ELECTRODE EKG CLEAR 8 OZ 12S	EA	1	1	0.04	0.00	\$3.00	0.04	0.00	\$3.00
A	6515005293346UM	GEL ULTRASOUND 250ML SQ/BT 12S	EA	1	1	0.63	1.99	\$3.65	0.63	1.99	\$3.65
C	6515014618933UM	GLOVE PT EXAM 9.5IN N-DEX NITR MED 100S	EA	400	37	5.32	0.68	\$68.92	0.49	0.06	\$6.38
C	6515014618929UM	GLOVE PT EXAM LGL NONPWD AMB 100S	EA	424	86	25.44	0.72	\$73.06	5.16	0.15	\$14.82
C	6515015196347UM	GLOVE SURG LATEX & POWDER FREE 8 50S	PR	10	3	1.00	0.03	\$28.50	0.30	0.01	\$8.55
B	6532013730150UM	GOWN HOSPITAL PERSONNEL LG PLAS 75S	EA	10	11	0.63	0.00	\$10.53	0.69	0.00	\$11.59
C	8520007823554UM	HAND CLEANER INDIV WRAP 2000	EA	50	42	0.04	0.00	\$0.81	0.03	0.00	\$0.68
B	6515011767576UM	HANDLE SUCTION SURG RIGID SHATTERPRF SUCT 50S	EA	12	12	0.01	0.00	\$19.28	0.01	0.00	\$19.28
B	6515012166269UM	HEAT EXCHANGER MOISTURE MED 15MM X 22MM 50S	EA	3	12	0.16	0.06	\$13.89	0.64	0.25	\$55.57
C	6515014164032UM	IV INJ SET 20DROP/ML STER DISP 100S	EA	10	3	0.35	0.05	\$11.96	0.11	0.02	\$3.59
C	6515011050614UM	IV INJ SET MACRODRIP 15 DROPS/ML 50S	EA	10	3	0.03	0.01	\$16.07	0.01	0.00	\$4.82

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
C	6515014721863UM	IV INJ SET 10 DROP/ML 70IN 48S	EA	10	3	0.11	0.03	\$9.53	0.03	0.01	\$2.86
B	6515014844182UM	IRRIGATION KIT CATHETER-NASOGASTRIC TUBE 20S	EA	2	5	0.04	0.00	\$11.00	0.10	0.01	\$27.50
C	6515015178098UM	KIT CATH SUCT 8 FR CATH-N-GLOVE W/BASIN 100S	KT	10	4	0.10	0.00	\$33.00	0.04	0.00	\$13.20
A	6515001103420UM	MASK ORONASAL ADULT MALE 50S	EA	4	4	0.01	0.00	\$4.13	0.01	0.00	\$4.13
B	6515012154177	MASK ORONASAL ADULT W/O2 INLET 15MM ADAPT	EA	2	3	0.38	0.07	\$19.66	0.57	0.11	\$29.49
A	6515012821194UM	MASK ORONASAL HUDSON ADULT MALE PLASTIC 50S	EA	4	4	0.48	0.04	\$9.43	0.48	0.04	\$9.43
A	6515012563257UM	MASK ORONASAL INF MALE CONN LATEX CUSH 20S	EA	4	4	7.20	4.00	\$252.32	7.20	4.00	\$252.32
C	6515014549342UM	MASK SURG FLUID SHIELD W/2IN EXT 100S	EA	20	4	80.00	14.00	\$3,060.00	16.00	2.80	\$612.00
A	6515011405336UM	MASK TRACH ANATOM SHAPED PED 50S	EA	2	2	0.10	0.03	\$2.93	0.10	0.03	\$2.93
B	6515009154141UM	MASK TRACH COLLAR SHAPED ADLT AIRLIFE 50S	EA	4	6	0.16	0.06	\$5.14	0.24	0.08	\$7.71
C	6515012149405UM	NEBULIZER MEDICINAL DISPOSABLE 50S	EA	2	1	0.06	0.00	\$1.84	0.03	0.00	\$0.92
B	6515015253045UM	NEEDLE HYPO SAFETY 18GAX1.5IN 500S	EA	20	35	0.03	0.00	\$8.00	0.06	0.01	\$14.00
B	6515015252929UM	NEEDLE HYPO W/SHIELD 21GAX1.5IN 500S	EA	20	36	0.07	0.01	\$8.00	0.13	0.02	\$14.40
C	6515013101813	NEEDLE I/O INFUSION 18GAX4CM	EA	2	1	0.02	0.00	\$51.60	0.01	0.00	\$25.80
C	6515013134853UM	NEEDLE PARTICULATE FILTR 19GA 5-MICRON 100S	EA	23	7	0.03	0.00	\$7.31	0.01	0.00	\$2.23

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
C	6510007755706UM	PAD ABDOMIN 7.5X8IN 3LAYERS PG 240S	EA	16	2	0.93	0.13	\$2.97	0.12	0.02	\$0.37
B	6530013667671UM	PAD BED LINEN NONWOVEN PLAS DISP 23X36IN 150S	EA	20	32	2.93	0.45	\$9.36	4.69	0.73	\$14.98
C	6510007863736UM	PAD ISOPROPYL ALCOHOL IMPREG 200S	EA	180	82	0.90	0.09	\$2.61	0.41	0.04	\$1.19
C	6515014430565	PADS ELECTRODE DEFIB ADULT ZOLL 1PR	PR	3	1	1.65	0.36	\$150.00	0.55	0.12	\$50.00
C	6515015093389UM	PAPER ECG U/W ZOLL M-SERIES DEFIB 10S	EA	2	1	1.60	0.24	\$5.60	0.80	0.12	\$2.80
C	8540005303770UM	PAPER TOILET 500 SHEETS 24X36 IN 96S	EA	4	2	0.42	0.13	\$2.58	0.21	0.06	\$1.29
B	6515014850270UM	PIGGYBACK ADDITION DISP FLUID PIN CONNEC 200S	EA	6	8	0.00	0.01	\$3.78	0.00	0.01	\$5.04
B	6515015550827UM	PIN DISPENS MINI-SPIKE VLV&CLIP NDL-FREE 50S	EA	6	7	0.03	0.19	\$24.34	0.04	0.22	\$28.40
C	6515001376345UM	PLUG EAR NOISE UNIV SZ FOAM 400S	PR	50	48	0.50	0.10	\$7.21	0.48	0.10	\$6.92
C	6515012348977UM	RAZOR SURG PREP STER DISP 50S	EA	4	2	0.15	0.02	\$0.11	0.07	0.01	\$0.05
C	6532014590428UM	RESPIRATOR AIR FILTERING 1 MICRON 210S	EA	40	23	0.05	0.00	\$0.46	0.03	0.00	\$0.27
B	6532014502057UM	RESPIRATOR AIR FILTERING INFECT CONTROL 35S	EA	40	45	0.29	0.02	\$97.11	0.32	0.02	\$109.25
A	6515014764542UM	RESUSCITATOR HAND OP RESER & MSK ADLT 10S	EA	2	2	0.36	0.04	\$40.90	0.36	0.04	\$40.90
A	7210015316103UM	SHEET BED 72X40IN SOLID AQUA DISPOSABLE 80S	EA	10	10	0.63	0.13	\$5.88	0.63	0.13	\$5.88
F	7210001396376UM	SHEET BED FLAT NONWOVEN FABRIC AQUA DISP 100S	EA	0	25	0.00	0.00	\$0.00	7.75	0.44	\$26.07

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C	6508012464202UM	SKIN CLEANSER MEDICATED 4OZ 60% ISO ALC 72S	BT	14	3	0.19	0.19	\$20.26	0.04	0.04	\$4.34
D	6505013308926UM	SODIUM CHL IRRIGATION USP 0.9% 1000ML BT 16S	BT	1	0	2.06	0.19	\$1.53	0.00	0.00	\$0.00
C	6510001489770UM	SPONGE SURG CELLUL 2/ENV 4X4IN 1200S	EA	60	40	0.93	0.15	\$5.49	0.62	0.10	\$3.66
C	6510000584421UM	SPONGE SURG GAUZE 2X2IN 2/ENV STER 3000S	EV	29	28	0.04	0.01	\$0.87	0.04	0.01	\$0.84
C	5975008387450UM	STRAP TIEDOWN ELECTRICAL 14IN 250S	EA	100	6	0.60	0.05	\$3.16	0.04	0.00	\$0.19
B	7350004441323UM	STRAW DRINKING 400S	EA	30	43	33.60	6.67	\$92.70	48.16	9.55	\$132.87
C	6515011378470UM	STYLET CATH-TUBE 11.75 .047 OD MALLE 20S	EA	2	1	0.04	0.01	\$6.11	0.02	0.00	\$3.06
C	6515013948327UM	STYLET TRACH TUBE 7.5-10MM PLAS 10S	EA	4	1	0.40	0.20	\$16.17	0.10	0.05	\$4.04
C	6515011243915UM	SUCTION SET TRACH TRI-FLO CATH 14FR 22IN 100S	EA	20	1	0.05	0.00	\$15.01	0.00	0.00	\$0.75
B	6515012066029UM	SUPPORT ARM BLD&FLUID CHILD W/COVERS 60S	EA	4	7	0.01	0.01	\$4.97	0.01	0.01	\$8.70
C	6530015716887UM	SURGICAL PACK DISP DELIVERY 3S	EA	2	1	3.33	1.33	\$68.79	1.67	0.67	\$34.39
B	6520004090426UM	SWAB DEN GENTLY ABRASIVE PLYSTR FOAM 1000S	EA	20	22	0.02	0.00	\$0.81	0.02	0.00	\$0.89
C	6515014923276UM	SYRINGE & NEEDLE HYPO SAFETY 25GAX .5IN 400S	EA	15	1	0.07	0.01	\$8.25	0.00	0.00	\$0.55
C	6515013568511UM	SYRINGE HYPO GP 10ML LUER LOCK PLAS STER 400S	EA	16	1	0.48	0.06	\$1.83	0.03	0.00	\$0.11
C	6515013520446UM	SYRINGE HYPO GP 60ML LUER TIP W/O NDL 120S	EA	4	3	0.50	0.06	\$1.83	0.38	0.05	\$1.37

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
C	6515004627348UM	SYRINGE HYPO 3ML LUER LOCK 100S	EA	20	12	0.23	0.03	\$2.49	0.14	0.02	\$1.49
A	6515015232430UM	SYRINGE INSULIN 28GAX1/2IN 5ML 400S	EA	5	5	0.00	0.00	\$3.13	0.00	0.00	\$3.13
A	6515010450029UM	SYRINGE IRRIG BULB 3OZ CAP 5IN DISP 50S	EA	2	2	0.44	0.04	\$2.42	0.44	0.04	\$2.42
C	6510009268882UM	TAPE ADH SURG POROUS 1INX10YD 12S	RO	12	1	1.04	0.04	\$17.57	0.09	0.00	\$1.46
C	6510009268884UM	TAPE ADH SURG WOVEN 3INX10YD 4S	EA	2	1	0.60	0.03	\$9.65	0.30	0.01	\$4.82
A	6530014657011UM	TAPE MEASURE PED RESUS BROSELOW 5S	EA	1	1	0.11	0.00	\$24.00	0.11	0.00	\$24.00
C	8540007935425UM	TISSUE FACIAL 2-PLY 36X24IN WHITE 100S	EA	2	1	0.01	0.00	\$0.01	0.00	0.00	\$0.01
A	6510012798279UM	TOWELETTE BENZALKONIUM CHL 7.25X5.25 1000S	EA	50	50	0.25	0.05	\$1.37	0.25	0.05	\$1.37
C	6515012198567UM	TRAY TRACHEOSTOMY CLEANING BAG 20S	KT	2	1	0.50	0.10	\$10.76	0.25	0.05	\$5.38
C	6515011665076UM	TUBE ENDOTRACHEAL MURPHY UNCUFFED 3.0MM 10S	EA	4	1	0.20	0.06	\$20.20	0.05	0.02	\$5.05
A	6515013632512UM	TUBE INHALER PLAS 72IN CUFF CONNECT DISP 15S	EA	2	2	0.67	0.20	\$4.23	0.67	0.20	\$4.23
C	6515001490316UM	TUBE STOMACH SURG SALEM 16FR 50S	EA	8	1	0.64	0.11	\$18.25	0.08	0.01	\$2.28
C	6515013441125UM	TUBE TRACH MAGILL/NAS/ORAL W/O CUFF 5MM 10S	EA	4	1	0.18	0.04	\$13.13	0.05	0.01	\$3.28
C	6515001050759UM	TUBE TRACH MURPH 12 CF 8.0MM 10.7MM 32CM 10S	EA	4	1	0.40	0.08	\$9.48	0.10	0.02	\$2.37

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Status	NSN	Supply description	UI/UM	AS qty	EESP qty	AS wt (lbs)	AS cube (cu ft)	AS cost	EESP wt (lbs)	EESP cube (cu ft)	EESP cost
C	6515001050744UM	TUBE TRACH MURPHY 7.0MM OD 10S	EA	4	1	0.40	0.02	\$9.98	0.10	0.01	\$2.49
C	6515001050720UM	TUBE TRACH MURPHY E12 6.0MM ID 8.1MM10S	EA	4	1	0.40	0.02	\$18.71	0.10	0.01	\$4.68
C	6515012123137UM	TUBE TRACHEAL MURPHY PED 16FR 10S	EA	4	1	0.27	0.02	\$12.40	0.07	0.00	\$3.10
C	6515005628308UM	TUBING O2 FORCE-FIT 72IN PLASTIC 50S	EA	16	12	1.44	0.29	\$22.61	1.08	0.22	\$16.96
C	6515011011948UM	TUBING SURG FUNNEL TAPER NONCONDUCTIV 100FT	FT	12	8	0.48	0.12	\$3.06	0.32	0.08	\$2.04
C	4510013790177UM	URINAL BAG DISPOSABLE 100S	EA	8	2	1.03	0.07	\$11.92	0.26	0.02	\$2.98
C	6515012768006UM	VALVE ANTI-REFLUX NAS/GASTR 10S	EA	8	7	0.04	0.00	\$54.23	0.04	0.00	\$47.45
C	6515009269150UM	VALVE DRAIN HEIMLICH 4.50IN 1IN DIA 10S	EA	4	2	0.40	0.08	\$85.17	0.20	0.04	\$42.59
C	6515015007637UM	VALVE PORT NEEDLE-FREE 1.2IN LUER LOCK 100S	EA	52	7	0.09	0.17	\$70.20	0.01	0.02	\$9.45
C	6515013883857UM	VALVE POS END EXPIR PRESS VENT 10S	EA	4	2	0.12	0.12	\$41.81	0.06	0.06	\$20.91
C	7210010132824UM	WASHCLOTH HOSPITAL PATIENT DISPOSABLE 1000S	EA	100	24	1.50	0.16	\$7.24	0.36	0.04	\$1.74
C	6840015009521UM	WIPES GERMICIDAL 6.75X6 12S	EA	2	1	0.38	0.04	\$3.38	0.19	0.02	\$1.69
Durables											
C	6530013416077UM	BAG BIOHAZ RED BLACK BIOHAZ SYMB 25X35IN 200S	EA	10	9	0.10	0.01	\$8.40	0.09	0.00	\$7.56
C	6530008368134UM	BASIN EMESIS KIDNEY 10IN DISP 250S	EA	8	4	0.32	0.00	\$1.43	0.16	0.00	\$0.72

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D	6135008357210UM	BATTERY NONRECHARGEABLE 1.5 VOLT CYLINDRICAL	EA	8	0	2.33	0.07	\$5.95	0.00	0.00	\$0.00
C	6135009857845UM	BATTERY NONRECHAR 1.5V CELL AA 24S	EA	67	5	2.79	0.28	\$14.74	0.21	0.02	\$1.10
A	6135008264798UM	BATTERY NONRECHAR 1.5V CELL AAA 24S	EA	20	20	0.83	0.17	\$2.71	0.83	0.17	\$2.71
C	6135009002139UM	BATTERY NONRECHAR 9V 12S	EA	4	2	0.42	0.03	\$3.91	0.21	0.02	\$1.95
A	6230015179944UM	FLASHLIGHT EXAM DISPOSABLE 10S	EA	2	2	0.55	0.04	\$0.42	0.55	0.04	\$0.42
C	6515014615798UM	TOURNIQUET VACUTAINER 1X18IN 25S	EA	22	7	0.35	0.01	\$7.71	0.11	0.00	\$2.45
B	6530010422485UM	URINAL MALE PATIENT PLAS DISP 50S	EA	8	10	2.00	1.04	\$4.16	2.50	1.30	\$5.20

Note. A = quantity unchanged; B = quantity increase; C = quantity decrease; D = delete; E = add, deleted replacement item; F = add new item; G = not modeled

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14. ABSTRACT The U.S. Air Force Medical Support Agency, Surgeon General Support Logistics Office requested that the Naval Health Research Center (NHRC) conduct a proof-of-concept study to assess the validity and feasibility of using NHRC's medical modeling tool, the Enterprise Estimating Supplies Program (EESP), for the development and management of Air Force medical Allowance Standards as a baseline for standardization throughout the services. The primary objective of this study was to provide the Air Force with the ability to validate the clinical requirements of the Aeromedical Evacuation In-Flight Kit. The Air Force Allowance Standard addresses the equipment, medicines, consumables, and durables required for an Aeromedical Evacuation Crew mission. The EESP database of medical task and supply profiles was used to identify patient conditions appropriate to the mission Concept of Operation of this Unit Type Code. Using NHRC's relational database, clinical tasks were mapped to each condition. Once the tasks and patient conditions were mapped to one another, supplies were associated to each task, and the resulting lists of equipment, medications, durables, and consumables were assessed for suitability by a subject matter expert panel review to ensure every inventory line item meets operational and clinical needs.					
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