

POLICY: 407.00
TITLE: Ground Ambulance Equipment and Medical Supply Inventory

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APPROVAL SIGNATURES ON FILE IN EMS OFFICE

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GROUND AMBULANCE EQUIPMENT AND MEDICAL SUPPLY INVENTORY

I. AUTHORITY

Division 2.5, California Health and Safety Code, Sections 1797.220 and 1798(a) and; Title 22, California Code of Regulations, Section 100168.

II. DEFINITIONS

- A. "Agency" means the Mountain-Valley EMS Agency.
- B. "Advanced Life Support (ALS) Ambulance" means an ambulance that meets the requirements of a BLS Ambulance, and, in addition, is equipped to provide advanced life support care.
- C. "Basic Life Support (BLS) Ambulance" means an ambulance that is specifically constructed, modified, or equipped, and used for transporting sick, injured, convalescent, infirm, or otherwise incapacitated persons and is limited to providing basic life support care.
- D. "Minimum Inventory" means the minimum inventory required to respond to emergencies.
- E. "Standard Inventory" means inventory that each unit shall normally carry and must be stocked with at the beginning of each shift.

III. PURPOSE

To establish a minimum and standard equipment medical supply inventory to ensure that optimal emergency medical care can be provided in accordance with the Agency Basic Life Support and Advanced Life Support Treatment Protocols. This policy is not intended to address non-transporting units.

IV. POLICY

- A. Each BLS and ALS ground ambulance shall be completely stocked with the standard equipment and medical supply inventory at the beginning of each shift listed under V. Procedures, C. Equipment and Medical Supply Matrix.
- B. If a BLS or ALS ground ambulance is requested by an authorized dispatch agency to respond to an emergency or non-emergency call before the unit has completely restocked, the unit may respond as long as it has the Minimum Inventory, as identified in this policy. The missing Standard Inventory items must be replaced as soon as possible.

- C. If a ground ambulance has depleted supplies beyond the minimum inventory, it may still respond as a first response unit and, in the case of an ambulance, may transport only if the patient will not be affected by the missing inventory. An Unusual Occurrence Report shall be submitted to the Agency for each response the ground ambulance goes on wherein it is not carrying the Minimum Inventory.
- D. "Minimum Inventory" on a ground ambulance is considered to be one half (1/2) of the Standard Inventory. If the standard equipment and supply inventory amount is listed as a quantity of one (1) then the minimum inventory will be one (1).
- E. The Agency may approve, on a provider specific basis, the use of ancillary equipment not included in this policy to achieve/perform a skill or procedure currently within the scope of practice for prehospital personnel.
 - 1. A provider shall submit a written request to utilize ancillary equipment that includes the type of equipment, timeline for implementation, and the training program, to the Agency for approval by the Medical Director.
 - 2. Training and implementation of ancillary equipment shall not begin until written approval is received from the Agency.

V. PROCEDURE

A. Shift Inventory:

The oncoming crew shall perform an equipment and medical supply inspection at the beginning of each shift to ensure each unit is completely stocked with the Standard Inventory.

B. Medication and IV Solution Maintenance:

- 1. The expiration date of all medications and IV Solutions on all units shall be checked on the first day of each month. All medications that expire in less than 30 days shall be exchanged.
- 2. Providers shall have policies and procedures in place that address appropriate equipment and medical supplies to be carried to the patient based on initial information.
- 3. Controlled substances are to be stored in accordance with Agency Policy 439.00 Controlled Substances.
- 4. ALS Service Providers shall take provisions to maintain medications and IV solutions within the temperature range recommended by the manufacturer. .

C. Equipment and Medical Supply Matrix:

All ALS and BLS ground ambulances shall maintain the minimum equipment and medical supply inventory as indicated in the following matrices.

- *Comparable Device – A device marked with the asterisk (*) sign allows another device to be substituted, which has equal quality to perform the task at hand. For example, a Pediatric Immobilization Device can be substituted with a long backboard.
- +Optional Item – An item marked with the pound (+) sign is an item available to be chosen by the provider but is not obligatory

	STANDARD INVENTORY For GROUND AMBULANCES	BLS		ALS
1.	KED	1		1
2.	Scoop Stretcher	1		1
3.	Spinal Immobilization Board	2		2
4.	Backboard Straps	3 sets		3 sets
5.	Pediatric Immobilization Device	1		1
6.	Patient Carry Tarp	1		1
7.	Burn Pack (clean sheets, towels, gown, sterile gloves)	1		1
8.	Rigid Collars adjustable – Adult and Pediatric	2 each		4 each
9.	Foam Head Restraints or *	3		3
10.	Cold Packs	4		4
11.	Hot Packs	4		4
12.	Traction Splints (adult & pediatric)	1 each		1 each
13.	Rigid Extremity Splints (leg & arm, pediatric and adult)	1 each		1 each
14.	Petroleum Jelly Gauze (Sterile)	2		4
15.	5 x 9 ABD Pad	4		4
16.	4 x 4 Sterile Compress	4		4
17.	4” Curlex Rolls	2		4
18.	Bandage Shears	1		1
19.	10 x 30 inch or Large Universal Dressing	2		2
20.	Rolls of Tape – one must be hypoallergenic	Assorted		Assorted
21.	4 x 4’s Non-Sterile	1 package		1 package
22.	Hemostatic Dressings	2		2
23.	Triangular Bandage	2		2
24.	Exam gloves (Small, Medium, Large, and X-Large)	1 box each size		1 box each size
25.	Non-Latex Exam Gloves (Small, Medium, Large and X-Large)	2 pairs each		2 pairs each
26.	Thermometer, Medical Grade Non-Contact Infrared Forehead	1		1
27.	OB Commercial/Pre-packaged pack meeting Title 13, Section 1103.2(a)(16) requirements that also includes survival blanket and scalpel	1		1
28.	Oral Pharyngeal Airways (sizes 00 through 6)	1 set		2 sets
29.	Nasal Pharyngeal Airways (sizes peds through adult)	1 set		2 sets
30.	Bag-Valve Device (Adult, Pediatric, neonate)	1 each		1 each
31.	Wall Mounted Flow Meters, Capable of 0-15 Liter Per Minute Flow	2		2
32.	Nasal Cannulas (adult)	2		6
33.	Nasal Cannulas (pediatric)	2		4
34.	Oxygen Mask with Reservoirs (adult and pediatric)	2 each		4 each
35.	Oxygen Supply > 10 liters/min x 20 minutes	1		1

	STANDARD INVENTORY For GROUND AMBULANCES	BLS		ALS
36.	Portable Oxygen Supply with Bottle and Regulator	2		2
37.	Wrench for Oxygen Valve	1		1
38.	Suction Handle Tip Rigid Catheters	2		2
39.	Non-collapsible suction tubing	2		2
40.	Suction devices, stationary & portable.	1 each		1 each
41.	Suction catheters size 6 – 14 French	0		1 each
42.	Bite stick	1		2
43.	Perilaryngeal or Supraglottic Airway Device - King Airway or I-Gel manufacturer recommended sizing – Adult and Pediatric	1 each size		2 each size
44.	Bougie	0		2
45.	ETCO2 Detector (colormetric is no longer required)	0		2
46.	12-lead EKG Monitor with paper print out capable of transcutaneous pacing; wave form capnography with recording capability; defibrillator with variable power control and a range capability of 25-360 joules (or clinically equivalent biphasic energy doses). All monitor/defibrillators shall have the capability to perform synchronized cardioversion	0		1
47.	CPAP device capable of delivering adjustable pressures ranging from 5 - 10 cm H ₂ O with FiO ₂ concentrations equal to or greater than 30% oxygen and capable of fitting small, medium and large adult sizes .	1 each		1 each
48.	Laryngoscope Handle with 1set of spare batteries	0		2
49.	Video Laryngoscope + with Approval of Agency Medical Director	0		1
50.	Laryngoscope blades 1 set (sizes 4 to 0) Miller	0		1 set
51.	Laryngoscope blades 1 set (sizes 4 to 1) Mac	0		1 set
52.	Endotracheal tubes and adapters ranging in size from 4 to 5.5 through 9.5 (cuffed) in increments of 0.5 mm.	0		1 set
53.	Endotracheal tube stylets to fit all size tubes	0		1 set
54.	McGill forceps both child and adult sizes	0		1 each
55.	Water soluble lubrication jelly	3		3
56.	Nebulizer (hand-held and mask style)	0		2 each
57.	Jet Insufflation Device capable of delivering 50 psi with on-off valve and Luer Lock Tip	0		1
58.	IV Catheter Needles Size 10 or 12 gauge OR approved NCD Kit	0		2
59.	Blood Pressure cuff adult	2		2
60.	Blood Pressure cuffs pediatric and extra long	1 each		1 each

	STANDARD INVENTORY For GROUND AMBULANCES	BLS		ALS
61.	Broselow Tape - latest version or an approved Length Based Tape	0		1
62.	Stethoscope	1		1
63.	Normal Saline for Irrigation 1000 ml	2		4
64.	Sheets, pillows, pillowcases, towels	2 sets		2 sets
65.	Blankets	2		2
66.	Ankle and wrist restraints	1 set		1 set
67.	Emesis Basin/Bag	4		4
68.	Bedpan	1		1
69.	Urinal	1		1
70.	Antibacterial disinfectant solution for cleanup	1		1
71.	EpiRite Syringe	2		0
72.	Pulse Oximeter	1		1
73.	Glucose Monitoring System	1		1
74.	Adenosine 6 mg/2 ml concentration	0		36 mg
75.	Albuterol 3 ml of a .5% solution	0		8
76.	Amiodarone 150 mg/3ml ampule (Provider must carry either Amiodarone or Lidocaine or both, if they choose)	0		6 ampules
77.	Aspirin (chewable) tablets	16 tablets		16 tablets
78.	Atropine Sulfate 1 mg/10 ml concentration (1 mg preload)	0		2
79.	Atropine Sulfate 20 ml of a .4 mg/1 ml concentration	0		1 vial
80.	Calcium Chloride	0		2 gm
81.	Dextrose 25% (2.5 gm/preload)	0		2
82.	Dextrose 50% preload 25 gm/50ml	0		2
83.	Diphenhydramine (Benadryl) 50mg/1ml or a 25 mg/ml concentration	0		100 mg
84.	Epinephrine 1:1,000 (1 mg/ml)	2 mg		3 mg
85.	Epinephrine 1:10,000 (1mg/10ml)	0		10 mg
86.	Fentanyl 50 mcg/ml Maximum 400mcg (Provider must carry either Fentanyl or Morphine Sulfate or both, if they choose as outlined in MVEMSA Policy 439.00)	0		200 mcg
87.	Glucagon 1mg/ml	0		2 mg
88.	Instant Glucose	2 tubes		2 tubes
89.	Ketamine +	0		100mg
90.	Lidocaine 100mg/10ml (preloads) (Provider must carry either Amiodarone or Lidocaine or both if they choose)	0		3
91.				

	STANDARD INVENTORY For GROUND AMBULANCES	BLS		ALS
92.	Midazolam (Versed) as outlined in MVEMSA Policy 439.00 –20 mg(5mg/ml)Maximum – 40 mg	0		20 mg
93.	Morphine Sulfate –Maximum – 60 mg (Provider must carry either Fentanyl or Morphine Sulfate or both if they choose as outlined in MVEMSA Policy 439.00)	0		20 mg
94.	Mucosal Atomizer 3ml	2		4
95.	Naloxone (Narcan)	4 mg		8 mg
96.	Nitroglycerine spray bottle capable of providing a metered dose of 0.4 mg/spray	0		1 bottle with sufficient supply to treat 2 patients
97.	Nitroglycerine 0.4 Tablets +	0		16 tablets
98.	Nitroglycerine Paste 2% ointment with tape for application	0		1 ointment
99.				
100.	Odansetron (Zofran) 4.0 mg tablets or 4 mg/2 ml vials	0		4
101.	Sodium Bicarbonate 50 mEq/50 ml concentration	0		2
102.	TXA 1000 mg/10 ml	0		2
103.	Betadine Preps	5		5
104.	Band-Aids Miscellaneous sizes	1 package		1 package
105.	Medication added labels	0		Multiple 5each
106.	Intraosseous Needles (Stainless Steel) 15, 25 & 45	0		
107.	IO Drill +	0		1 each
108.	IV Catheter Needles Sizes 14 through 22 gauge	0		5 each
109.	Huber Needle 20 gauge, 1", bent tip, non-coring	0		2
110.	Needles for injections Size 18 or 19 gauge Size 21, 23, 24 or 25 gauge	0		3 each
111.	Normal Saline 1000 ml must be kept within a range of 100 to 110 degrees Fahrenheit. This cache of solution must be dated and either used or discarded within 28 days of warming.	0		2
112.				
113.	Normal Saline 100 ml	0		2
114.	Normal Saline 1000 ml	0		6
115.	Macro-Drip Set (10-20 gtts/ml)	0		6
116.	Micro-Drip Set (60 gtts/ml)	0		2

	STANDARD INVENTORY For GROUND AMBULANCES	BLS		ALS
117.	Pediatric 100 ml or 150ml Volume Control Chamber Administration Sets	0		2
118.	Extension Tubing	0		6
119.	Syringes 1, 3, 5, 10, 60 ml	0		2 each
120.	IV Tourniquets	0		5
121.	Sharps Container(s) as necessary, incl. one in ambulance and one in EMS bag	0		2
122.	Alcohol Preps	0		Multiple
123.	12-lead Electrode Pads	0		20
124.	Defibrillator Pads – Adult and Pediatric	0		2
125.	12-lead Monitor cables (one with monitor, one back-up)	0		2 sets
126.	Charged batteries (backups for defibrillator)	0		1
127.	AED with extra set of Pediatric and Adult pads	1		0
128.	MCI Kit containing the following: Set of five MCI vests per Agency Policy 810.00; 25 triage tags; Set of ICS Forms as specified in MVEMSA Policy 810.00; Complete set of oral airways ranging from sizes 0-6; 4 additional airways in each of the following sizes 4,5,6; 4 - 4 x 4 trauma compresses with ties; 4 - Tourniquets; Pair of bandage scissors/shears;	1		1
129.				
130.	Radio able to communicate with authorized dispatch center in area of operation.	1		1
131.	Radio able to transmit and receive communications on appropriate med-net frequencies and private line tones with hospitals and DCF in unit's service area and surrounding counties. Radios used for communication with hospital must be accessible in the patient compartment.	1		1
132.	Portable radio able to transmit and receive communications with authorized dispatch center in area of operation.	1		1
133.	Cell Phone in compliance with contractual requirements	1		1
134.	Satellite Phone +	1		1

D. Recommended Inventory

The following matrix contains equipment and medical supplies recommended to be available to EMS responders on their person, in the unit, or in quarters for dispatch to the scene if necessary.

Recommended ITEMS per person	Carried, Stored in Unit or In Quarters	
Hard hat – Work helmet (Blue)	Unit	1 per person
Eye Protection	Carried	1 per person
Hearing Protection	Carried	1 per person
Body Garment(uniform blue)	Carried	1 per person
Garment – single use	Unit	1 per person
Hooded, chemical resistant clothing	Quarters	1 per person
Jacket – EMS w/reflective stripes	Unit	1 per person
Gloves – chemical-protective Nitrile	Unit	1 box
Gloves work	Unit	1 pair per person
Footwear worn	Carried	1 pair per person
Footwear covers	Unit	1 pair per person
N-100 or N-95 mask	Unit	5
Escape Hood	Carried	1 per person
Flashlight or headlamp	Carried	1 per person
Knife, folding	Carried	1 per person
Scissors/Shears	Carried	1 per person
Stethoscope	Carried	1 per person
Personal communication device (radio)	Carried	1 per person
Mark I Auto-injector Kit	Unit	1 per person
Recommended Extended Operations Equipment		
Daypack – “GO” pack for the following equipment		1
One quart water		1
One water purification unit		1
One set of rain gear		1
Set of emergency garments		1
MRE’s for 72 hrs.		1
1 set ear protection		1
Mark I Auto-injector Kit		1
Field Operations Guide (FOG)		1