

POLICY: 409.00
TITLE: BLS and ALS First Responder Unit Equipment and Medical Supply Inventory

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SUPERCEDES:

APPROVAL SIGNATURES ON FILE IN EMS OFFICE

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**BLS AND ALS FIRST RESPONDER UNIT 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) First Responder Unit (ALSFRU)" means a vehicle, staffed by a minimum of one Paramedic, to provide ALS services pursuant to a written agreement between an ALS First Responder Department and the Agency.
- C. "ALS Quick Response Vehicle (ALSQRV)" means a vehicle, staffed by a minimum of one Paramedic, to provide ALS services pursuant to a written agreement between an ALS Responder Department and the Agency.
- D. "Basic Life Support (BLS) First Responder Unit (BLSFRU)" means a vehicle, staffed by a minimum of one EMT or, to provide BLS services pursuant to a written agreement between a BLS First Responder Department and the Agency.
- E. "BLS Quick Response Vehicle (BLSQRV)" means a vehicle, staffed by a minimum of one EMT, to provide BLS services pursuant to a written agreement between a BLS or ALS Responder Department and the Agency.
- F. "Minimum Inventory" means the minimum inventory required to respond to emergencies.
- G. "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 and medical supply inventory for BLS, ALS First Responding, and QRV units. This policy is not intended to address transporting units.

IV. POLICY

- A. Each BLS, ALS First Responder, and QRV Unit 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, ALS First Responder, or QRV Unit is requested by an authorized dispatch agency to respond to an emergency or non-emergency call before the unit has completely re-stocked, 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 BLS, ALS First Responder, or QRV Unit has depleted supplies beyond the minimum inventory, it may still respond as a first response unit. An Unusual Occurrence Report shall be submitted to the Agency for each response the unit goes on wherein it is not carrying the Minimum Inventory.
- D. "Minimum Inventory" on a BLS, ALS First Responder, or QRV Unit 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 BLS, ALS First Responder, and QRV 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 ALS and QRV units shall be checked on the first day of each month. All medications and IV solutions that expire in less than 30 days shall be exchanged.
- 2. Providers shall have policies and procedures in place that address appropriate equipment and 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 BLS, ALS First Responder QRV Units shall maintain the standard 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 by 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 BLS, ALS FIRST RESPONDER and QRV UNIT	BLSFRU	BLSQRV	ALSFRU	ALS QRV
	KED	1	0	1	0
2.					
3.	Spinal Immobilization Board	2	0	2	0
	Patient Carry Tarp	1	1	1	1
	Backboard Straps	2 sets	0	2 sets	0
4.	Pediatric Immobilization Device or a KED	1	0	1	0
5.	Burn Pack (clean sheets, towels, gown, sterile gloves)	1	1	1	1
6.	Rigid Collars – adjustable – Adult and Pediatric	4 each	2each	4 each	2each
7.	Foam Head Restraints or *	1	0	1	0
8.	Cold Packs	2	2	2	2
	Hot Packs	2	2	2	2
	Traction Splints (adult & pediatric)	1 each	0	1 each	0
9.	Rigid Extremity Splints (leg & arm; ped & adult)	1 each	0	1 each	0
10.	Petroleum Jelly (Sterile, Vaseline) gauze	4	4	4	4
11.	5 x 9 ABD Pads	4	4	4	4
12.	4 X 4 Sterile Compresses	4	4	4	4
13.	4” Curlex Roll	4	4	4	4
14.	Bandage Shears	1	1	1	1
15.	10 X 30 inch or large universal dressings	2	2	2	2
16.	Rolls of Tape – one must be hypoallergenic	Assorted	Assorted	Assorted	Assorted
17.	4 X 4’s Non-sterile, Bag	1 package	1 package	1 package	1 package
18.	Hemostatic Dressings	2	2	2	2
19.	Triangular Bandage	2	2	2	2
20.	Roller gauze	2	2	2	2
21.	Exam Gloves - small, medium, large, and x-large	1 box each	1 box each	1 box each	1 box each
22.	Non-Latex Exam Gloves - small, medium, large, and x-large	2 pairs each	2 pairs each	2 pairs each	2 pairs each
23.	Thermometer, Medical Grade Non-Contact Infrared Forehead	0	0	1	1

	STANDARD INVENTORY FOR BLS, ALS FIRST RESPONDER and QRV UNIT	BLSFRU	BLSQRV	ALSFRU	ALS QRV
24.	Commercial/Pre-packaged OB pack meeting Title 13, section 1103.2(a)(16) requirements that also includes survival blanket and scalpel	1	1	1	1
25.	Oral Pharyngeal Airways (sizes 00 through 6)	1 set	1 set	1 set	1 set
26.	Nasal Pharyngeal Airways (sizes peds through adult)	1 set	1set	1 set	1 set
27.	Bag-Valve Device (adult, pediatric, neonate)	1 each	1 each	1 each	1 each
28.	Nasal Cannulas adult size	2	2	2	2
29.	Nasal Cannulas pediatric size	1	1	1	1
30.	Oxygen Mask with Reservoirs adult and pediatric size	2 each	2 each	2 each	2 each
31.	Portable Oxygen Supply with bottle and regulator	2	2	2	2
32.	Wrench for Oxygen Valves	1	1	1	1
33.	Suction Handle-Tip Rigid Catheters	1	1	1	1
34.	Non-collapsible Suction Tubing	1	1	1	1
35.	Portable Suction Device	1	1	1	1
36.	Suction Catheters 6-14 French	0	0	1 each size	1 each size
37.	Bite Stick	1	1	1	1
38.	Perilaryngeal or Supraglottic Airway Devices - King Airway, or I-Gel manufacturer recommended sizing	1 each size	1 each size	1 each size	1 each size
39.	Bougie	0	0	1	1
40.	ETCO2 Detector (colormetric is no longer required)				
41.	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 size	1 each size	1 each size	1 each size
42.	Laryngoscope Handle with one set of spare batteries	0	0	1	1
43.	Laryngoscope Blades 1 set Miller (sizes 4 to 0)	0	0	1 set	1 set
44.	Laryngoscope Blades 1 set Mac (sizes 4 to 1)	0	0	1 each	1 each
45.	Video Laryngoscope + with	0	0	1	1

	STANDARD INVENTORY FOR BLS, ALS FIRST RESPONDER and QRV UNIT	BLSFRU	BLSQRV	ALSFRU	ALS QRV
	Approval of Agency Medical Director				
46.	Endotracheal Tubes and Adapters ranging in size from 5.5 through 9.5 (cuffed) in increments of 0.5 mm.	0	0	1 set	1 set
47.	Endotracheal Tube Stylets to fit all size tubes	0	0	1 each	1 each
48.	McGill Forceps both child and adult sizes	0	0	1 each	1 each
49.	Water Soluble Lubrication Jelly	3	3	3	3
50.	Nebulizer (hand-held and mask style)	0	0	2 each	2 each
51.	Jet Insufflation Device capable of delivering 50 psi with on-off valve and Luer Lock Tip	0	0	1	1
52.	IV Catheter Needles Size 10 or 12 gauge OR approved NCD Kit	0	0	2	2
53.	Blood Pressure Cuff adult, pediatric and extra long	1 each size	1 each size	1 each size	1 each size
54.	Broselow Tape - latest version or an approved Length Based Tape	0	0		1
55.	Stethoscope	1	1	1	1
56.	Normal Saline for Irrigation	2	2	2	2
57.	Blankets	2	2	2	2
58.	Emesis Basins/Bags	2	2	2	2
59.	Antibacterial Disinfectant Solution for cleanup	1	1	1	1
60.	EpiRite Syringe	2	2	0	0
61.	Pulse Oximeter	1	1	1	1
62.	Glucose Monitoring System	1	1	1	1
63.	Adenosine 6 mg/2 ml concentration	0	0	18 mg	18 mg
64.	Albuterol 3 ml of a .5% solution	0		6 unit dose	6 unit dose
65.	Amiodarone 150mg/3ml ampule + (Provider must carry either Amiodarone or Lidocaine or both, if they choose)	0		6 ampules	6 ampules
66.	Aspirin (chewable) tablets	0		16 tablets	16 tablets
67.	Atropine Sulfate 1 mg/10 ml concentration (1 mg preload)	0		4 preload	4 preload
68.	Atropine Sulfate 20 ml of a .4 mg/1 ml concentration	0		1 vial	1 vial
69.	Calcium Chloride	0		2 gm	2 gm
70.	Dextrose 25% (2.5 gm/preload)	0		2	2
71.	Dextrose 50% preload 25 gm/50ml	0		2	2

	STANDARD INVENTORY FOR BLS, ALS FIRST RESPONDER and QRV UNIT	BLSFRU	BLSQRV	ALSFRU	ALS QRV
72.	Diphenhydramine (Benadryl) 50mg/1ml or a 25 mg/ml concentration	0		100 mg	100 mg
73.	Epinephrine 1:1,000 (1 mg/ml)	2 mg	2 mg	3mg	3mg
74.	Epinephrine 1:10,000 (1mg/10ml)	0	0	6 mg	6 mg
75.	Fentanyl 50 mcg/ml Maximum- 400mcg	0	0	200 mcg	200 mcg
76.	Glucagon 1mg/ml	0	0	1 mg	1 mg
77.	Instant Glucose	2 tubes	2 tubes	2 tubes	2 tubes
78.	Ketamine +	0	0	100 mg	100 mg
79.	Lidocaine 100mg/10ml (preloads) (Provider must carry either Amiodarone or Lidocaine or both, if they choose as outlined in MVEMSA Policy 439.00)	0	0	3	3
80.					
81.	Midazolam as outlined in MVEMSA Policy 439.00 (Versed)–20 mg(5mg/ml) Maximum – 40 mg	0	0	20 mg	20 mg
82.	Morphine Sulfate –Maximum – 60 mg	0	0	20 mg	20 mg
83.	Mucosal Atomizer 3ml	2	2	2	2
84.	Naloxone (Narcan)	8 mg	8 mg	8 mg	8 mg
85.	Nitroglycerine 0.4 Tablets+	0	0	1 bottle 16 tablets	1 bottle 16 tablets
86.	Nitroglycerine Paste 2% ointment with tape for application	0	0	1 ointment	1 ointment
87.	Nitroglycerine spray bottle capable of providing a metered dose of 0.4 mg/spray	0	0	1 bottle with sufficient supply to treat 2 patients	1 bottle with sufficient supply to treat 2 patients
88.	Odansetron (Zofran) 4.0 mg tablets or 4 mg/2 ml vials	0	0	2	2
89.	Sodium Bicarbonate 50 mEq/50 ml concentration	0	0	2	2
90.	TXA 1000 mg/10 ml	0	0	2	2
91.	Betadine Preps	0	0	5	5
92.	Band-Aids Miscellaneous sizes	1 package	1 package	1 package	1 package
93.	Medication Added Labels	0	0	5	5
94.	Intraosseous Needles (Stainless Steel) 15, 25 & 45 either electronic or Jamshidi	0	0	2 each	2 each
95.	IO Drill +			1 each	1 each
96.	IV Catheter Needles Sizes 14	0	0	5 each	5 each

	STANDARD INVENTORY FOR BLS, ALS FIRST RESPONDER and QRV UNIT	BLSFRU	BLSQRV	ALSFRU	ALS QRV
	through 22 gauge				
97.	Huber Needle 20 gauge, 1", bent tip, non-coring	0	0	2	2
98.	Needles for Injections 18 or 19 gauge Size 21,23,24,and 25	0	0	3 each	3 each
99.	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 two weeks of warming.	0	0	2	2
100.					
101.	Macro-Drip Set (10-20 gtts/ml)	0	0	4	4
102.	Micro-Drip Set (60 gtts/ml)	0	0	2	2
103.	Pediatric 100 ml Volume Control Chamber Administration Sets	0	0	2	2
104.	Extension Tubing	0	0	4	4
105.	Syringes 1, 3, 5, 10, 60 ml	0	0	2 each	2 each
106.	IV Tourniquets	0	0	3	3
107.	Sharps Container(s) as necessary, incl. one in EMS Bag	1	1	1	1
108.	Alcohol Preps	5	5	5	5
109.	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	0	1	1
110.	12-lead Electrode Pads	0	0	20	30
111.	Defibrillator Pads – Adult and Pediatric	0	0	2	2
112.	12-lead Monitor cables (one with monitor, one back-up)	0	0	1set	1set
113.	Charged Batteries (backups for defibrillator)	0	0	2	2
114.	AED with 1 extra set of pads for adult and children	1	1	0	0
115.	MCI Kit containing the following: Set of five MCI vests per Agency	1	1	1	1

	STANDARD INVENTORY FOR BLS, ALS FIRST RESPONDER and QRV UNIT	BLSFRU	BLSQRV	ALSFRU	ALS QRV
	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;				
116.	Radio able to communicate with authorized dispatch center in area of operation.	1	1	1	1
117.	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.	0	0	1	1
118.	Portable radio able to transmit and receive communications with authorized dispatch center in area of operation.	1	1	1	1
119.	Cell Phone in compliance with contractual requirements	1		1	1
120.	Satellite Phone +	1		1	1

D. Recommended Inventory

The following matrix contains drugs and equipment that is 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	Quantity
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

Recommended Items per Person	Carried, Stored in Unit or In Quarters	Quantity
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