

POLICY: 409.00
TITLE: BLS and ALS First Responder Unit Equipment and Medical Supply Inventory
EFFECTIVE: 8/12/2020
REVIEW: 8/2025
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 |

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|------|--|---------------|---------------|---------------|----------------|
| | 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 |