



TITLE: EMS RESPONSE VEHICLE MEDICATION AND EQUIPMENT EMS Policy No. 4101

- ~~V.~~ IV. EMS service providers shall have and maintain appropriate state and federal approvals for point of care testing including a waiver form the from the Centers for Medicare and Medicaid Services, pursuant to the Clinical Laboratory Improvement Amendments (CLIA), for laboratory devices including testing to measure lab values in the prehospital setting as follows:
 - A. BLS NT and BLS AMB for finger stick glucose.
 - B. ALS NT and ALS AMB for finger stick glucose, capnometry, capnography, and carbon monoxide.

- ~~VI.~~ V. EMS service providers that are unable to maintain medication or equipment ~~par levels~~ required in this policy due to ongoing or imminent national medication and equipment shortages shall complete and submit Form 4101A Medication Shortage Mitigation and Response Strategies.

- VI. EMS service providers that request a waiver from medication or equipment in par levels of this policy shall complete and submit Form 4101B, Request for Waiver of Requirements.

- VII. These minimum levels are applicable to Non-Emergency Ambulance providers.

- VIII. Any substitutions or modifications of this list must be approved by the EMS Medical Director.

- ~~IX.~~ VIII. The quantities specified below listed amounts are the minimum quantities necessary to be in service at any given time.

Table 1: ALS and BLS Common Equipment and Supplies	Par <u>Minimum</u> Level			
	BLS		ALS	
Airway Management	NT	AMB	NT	AMB
In ambulance oxygen source, minimum of 500 PSI with a wall mounted regulator	NR	1	NR	1
Portable oxygen - D or E size cylinders, minimum of 200 PSI, with regulator	1	1	1	1
Spare Portable oxygen - D or E size cylinders, minimum of 1800 PSI	1	1	1	1
Wall mount suction device	NR	1	NR	1
Battery powered suction unit	1	1	1	1
Suction catheters with control for each size Fr 6, 8, 10, 12, 14, 18	1	1	1	1
Connecting tubing for suction units	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>
Yankauer Tonsil Tip Suction Catheter	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>

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Disposable bag valve device - adult, with appropriate connector masks	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>
Disposable bag valve device – pediatric, with appropriate connector masks for child and infant	1	1	1	1
Disposable bag valve device – infant				
Tube of water-soluble lubricating jelly (or multiple single use packets)	1	1	1	1
Table 1: ALS and BLS Common Equipment and Supplies				
	Minimum Level			
	BLS		ALS	
Oropharyngeal Airway Kit (adult, child, infant) each size 0 – <u>8 or 40mm to 110mm9</u>	1	1	1	1
Tongue blade for use in inserting child and infant OPA	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>
Nasopharyngeal Airways, each size Fr 20, 24, 28, 32, 36	1	1	1	1
Nasal Cannula, pediatric	1	1	1	<u>21</u>
Nasal Cannula, adult	<u>21</u>	<u>21</u>	<u>13</u>	<u>31</u>
Adult Non-rebreather oxygen mask	<u>21</u>	<u>21</u>	<u>21</u>	<u>31</u>
Pediatric Non-rebreather oxygen mask	<u>21</u>	1	1	<u>21</u>
Adult laryngoscope handle with alkaline batteries or 2 disposable handles	NA	NA	1	1
Pediatric laryngoscope handle with alkaline batteries or 2 disposable handles	NA	NA	1	1
Airway Management	NT	AMB	NT	AMB
Spare alkaline batteries for laryngoscope handle	NA	NA	<u>21</u>	<u>21</u>
Disposable Macintosh laryngeal blades each size: #1, #2, #3, #4	NA	NA	1	1
Disposal Miller laryngeal blades each size: #0, #1, #2, #3, #4	NA	NA	1	1
Magill Forceps – Adult and Pediatric	NA	NA	1	1
Endotracheal tubes each size: 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5	NA	NA	1	<u>21</u>
ET tube holder	NA	NA	1	<u>21</u>
Disposable Endotracheal Tube introducers	NA	NA	<u>21</u>	<u>21</u>
Endotracheal tube stylet	NA	NA	1	<u>21</u>
End tidal CO2 device, adult	NA	NA	1	<u>21</u>
End tidal CO2 device, pediatric	NA	NA	1	<u>21</u>
Nebulizer mask	0	0	1	1
Saline humidifier	1	1	1	1
Breath actuated nebulizer	NA	NA	1	<u>21</u>
Needle and catheter for pleural decompression: 10 or 14 gauge 3.25 inch needle (with Betadine swab, tape, and 10 ml syringe)	NA	NA	<u>42</u>	<u>42</u>
Percutaneous Needle Cricothyroidotomy insertion kit, which includes: 10 ml syringe, Translaryngeal jet ventilator device with push-button and high-pressure tubing with locking device (Adult), 10- or 12-gauge needle for adult, and Betadine swab, or Enk Oxygen Flow Modulator set, (Adult), and Betadine swab or kit approved by EMS Medical Director.	NA	NA	1	1

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iGel Airway each size 3.0, 4.0, 5.0	NA	NA	<u>21</u>	<u>21</u>
iGel Airway each size 1.0, 1.5, 2.0, 2.5	NA	NA	<u>21</u>	<u>21</u>
Pneumatic Continuous Positive Airway Pressure (CPAP) device <u>with manufactures recommended size masks</u>	NA	NA	1	<u>NA1</u>
Zoll Z series™ ventilator with CPAP and/or BiPAP *Optional for Non- Emergent ALS interfacility transfer ambulance	NA	NA	NA	1
Adult Ventilator Circuits *Optional for Non- Emergent ALS interfacility transfer ambulance	NA	NA	NA	<u>31</u>

Table 1: ALS and BLS Common Equipment and Supplies

	Minimum Level			
	BLS		ALS	
CPAP mask compatible with Zoll Z series™ ventilator each size large and extra large *Optional for Non- Emergent ALS interfacility transfer ambulance	NA	NA	NA	<u>31</u>
Inline Hepa Filter *Optional for Non- Emergent ALS interfacility transfer ambulance	NA	NA	1	<u>21</u>
Assessment and Treatment	NT	AMB	NT	AMB
Stethoscope	1	1	1	<u>21</u>
Penlight	1	1	1	1
Blood pressure cuff: thigh, adult, child, infant	1 ea	1 ea	1 ea	1 ea
Patient thermometer (temporal or noncontact)	1	1	1	1
Assessment and Treatment	NT	AMB	NT	AMB
Pulse oximetry device approved by the Food and Drug Administration (FDA)	1	1	1	1
Blood glucose measuring device approved by the FDA with multiple test strips	NA	NA	1	1
Length based pediatric resuscitation tape	NR	NR	1	1
Cardiac monitor with defibrillation/pacing/12 lead capable	NA	NA	1	1
Pediatric defibrillation equipment	NA	NA	1	1
ECG electrodes all patient sizes	NA	NA	6	9
Automated External Defibrillator – Compliant with the current AHA Guidelines and capable of delivering both adult and pediatric shocks	1	1	NR	NR
AED cables and pads for sizes adult and pediatric	1	1	NR	NR
Piston style mechanical compression device	1	0	1	0
Bandage shears (heavy duty)	1	1	1	2
Rolls of tape, size 1” or 2” or 3” Hypoallergenic (Transpore/paper)	2	2	2	2

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Emesis basins	NR	2	NR	2
Bed pan/fracture pan	NR	1	NR	1
Urinal	NR	1	NR	1
OB Kit, which includes: (1) pair of sterile gloves, (1) drape sheet, (2) umbilical clamps, (4) disposal towels, (2) O.B. towelettes, (1) bulb syringe, (2) alcohol preps, (1) O.B. sterile pad (1) plastic bag for placenta, (2) twist ties, (1) receiving blanket, (3) gauze sponges, (pk/2)	1	1	1	1
Ring Cutter	1	1	1	1
Soft ankle/wrist restraints	0	4	0	4
Table 1: ALS and BLS Common Equipment and Supplies				
	Minimum Level			
	BLS		ALS	
Trauma	NT	AMB	NT	AMB
Board for use in extrication	1	1	1	1
One or more of the following for use in patient movement on scene: collapsible litter, pole-less litter, soft or tarp litter, or stokes litter	1	1	1	1
Scoop stretcher	0	1	0	1
Kendrick Immobilization Device (KED) or similar device approved by the EMS Agency	1	1	1	1
Pediatric immobilization device	0	0	0	1
X-Collars™	4	4	4	4
Soft cervical collars – small pediatric	2	2	2	2
Trauma	NT	AMB	NT	AMB
Adult traction splint for femur	1	1	1	1
Pediatric traction splint for femur or adult traction splint that adjusts to pediatric size	1	1	1	1
Rigid splints for splinting each extremity	1	2	1	2
Sterile burn sheets	2	2	2	42
Occlusive dressings	2	2	2	42
2 x 2 gauze pads Sterile	0	0	4	84
4 x 4 gauze pads Sterile	105	105	105	105
Hemostatic dressings: Quick Clot Combat Gauze LE; or Quick Clot, EMS Rolled Gauze, 4x4 Dressing, Trauma Pad; or Celox Gauze, Z-Fold Hemostatic Gauze; or Celox Rapid, Hemostatic Z-Fold Gauze	2	2	2	2
Trauma dressings	2	2	2	42
Gauze roll type bandages, size 2 or 4 or 6	2	2	2	4
Triangular bandages	1	1	1	2

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Instant ice packs	2	2	2	84
Trauma Tourniquets: SOF Tactical Tourniquet or the Combat Application Tourniquet (CAT)	4	4	4	44
General Equipment	NT	AMB	NT	AMB
San Joaquin County Map Book (current within 2 years) or GPS Equivalent	1	1	1	1
Map book for assigned response zones or district (current within 1 year) or GPS Equivalent	1	1	1	1
Battery operated flashlight	1	1	1	1
Functional environmental controls for heat and air conditioning for the patient compartment.	NR	1	NR	1

Table 1: ALS and BLS Common Equipment and Supplies

	Minimum Level			
	BLS			ALS
Patient compartment door latches operable from inside and outside.	NR	1	NR	1
Patient sheets (disposable)	0	2	0	42
Patient blankets (disposable)	1	2	1	2
<u>Patient pillows</u>	0	2	0	2
Ambulance gurney with mattress, capable of elevating the head, feet, and adjustable to several levels.	0	1	0	1
VHF & UHF mobile radio minimum 45-watt power located in driver's compartment programmed to communicate with dispatch, hospitals, and other responding units to include frequencies: SJC Med Net channels 1- 8, SJC HEAR, and Cal Cord.	1	21	1	12
General Equipment	NT	AMB	NT	AMB
UHF control head, microphone and speaker installed in each ambulance's patient compartment to communicate with the base and receiving hospitals.	NR	1	1	1
San Joaquin County EMS Agency BLS Protocols	1	1	1	1
San Joaquin County EMS Agency ALS Protocols	NR	NR	1	1
Field Operations Guide ICS 420-1 (<i>FOG Manual</i>), current edition	1	1	1	1
START triage tags	5025	2025	5025	5025
MCI Vests - Medical Group Supervisor, Triage Unit Leader (minimum)	0	0	1	1
Infection Control	NT	AMB	NT	AMB
Bottle of instant hand sanitizer (alcohol based) or box of disinfectant wipes for human use.	1	21	1	21
Biohazard bags (various sizes recommended)	2	32	32	52
Commercial Biohazard spill kit or equivalent	1	1	1	1
Covered waste container	0	1	0	1
Needle disposal system, which is OSHA compliant	1	1	1	1

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Antibacterial disinfectant solution	1	1	1	1
Latex free gloves in sizes small, medium, large, extra-large.	1 box	1 box	1 box	1 box
Isolation Kit including: (2) Gowns, (2) N95 or N100 respirators, (2) eye/face splash guards. Must have sizes sufficient for all staff necessary to meet OSHA requirements.	3	2	3	2

Table 2: BLS Specific Medications, Supplies, and Equipment	Minimum Level	Par-Level
	BLS NT	BLS AMB
Epinephrine auto-injector (adult) 0.3mg	1	1
Epinephrine auto-injector (pediatric) 0.15mg	1	1
Naloxone preload syringe	2	1
Mucosal Atomizer Device	2	1
Glucose for oral administration (tube)	1	1
Ondansetron ODT	8 mg	8 mg
Saline/Sterile Water Irrigating	2000 ml	2000 ml
Glucometer with spare batteries	1	1
Glucometer test strips and lancets	1025 ea	1025 ea
Aspirin chewable 81 mg tablets	1 bottle324mg	1 bottle324mg
Dial-a-Flow or equivalent	NA	4

Table 3: ALS Specific Medications, Supplies, and Equipment	Minimum Level	Par-Level
	ALS NT	ALS AMB
Acetaminophen – liquid for oral administration	1,000 2,600 mg	2,6001,000 mg
Acetaminophen for injection	1,000 mg	1,000 mg
Adenosine for injection	30 mg	30 mg
Albuterol Aerosolized Solution 2.5 mg each	48	48
Aspirin, chewable 81 mg tablets	1 bottle	1 bottle
Atropine for injection	3 mg	63 mg
Atrovent (Ipratropium bromide HFA) 0.5 mg packets	2	3
Diphenhydramine for injection	50 mg	100 mg
Diphenhydramine – liquid for oral administration	50 mg	100 mg
Calcium Chloride for injection	0	1 gm
Dextrose 50% for injection or; Dextrose 10% solution in 250 ml bags for injection	50 gm or (3) 250 ml bags of 10% solution or combination	75 gm or (2) 250 ml bags of 10% solution or combination
Dopamine for injection	0	400 mg
Epinephrine 1:1,000 for injection	2 mg	4 mg
Epinephrine 1:10,000 for injection	4 mg	8 mg

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Table 3: ALS Specific Medications, Supplies, and Equipment	Minimum Level	Par-Level
	ALS NT	ALS AMB
Fentanyl for injection	300 mcg	500 mcg
Glucose for oral administration (tube)	2	2
Ibuprofen – liquid for oral administration	1,600 800 mg	1,600 800 mg
<u>Ketorolac for injection</u>	<u>30mg</u>	<u>30mg</u>
Lidocaine for injection	400 mg	400 mg
Magnesium Sulfate for injection	4 gm	8 gm
Midazolam for injection	10 mg	20 mg
Morphine Sulfate for injection	20 mg	40 mg
Naloxone for injection	2 mg	4 mg
Nitroglycerin spray (minimum of 60 metered doses) or Tablet 1/150 gr	1 bottle	<u>2</u> 1 bottles
IV Normal Saline 250ml (maintained at manufacturer’s recommended temperature range)	<u>42</u>	<u>42</u>
IV Normal Saline 1000ml bags (maintained at a range of 2 degrees within normal body temperature)	2	2
IV warming system capable of maintaining two 1000ml bags at a range of 2 degrees within normal body temperature	1	1
IV Normal Saline 500ml or 1000ml bags (maintained at manufacturer’s recommended temperature range)	4000 <u>2000</u> ml	8000 <u>4000</u> ml
Normal saline for injection 10ml or 20 ml vials or preloads	4	4
Saline/Sterile Water 1000ml Irrigating	2	<u>52</u>
Ondansetron – Packet of 2 x 4mg oral disintegrating tablets	8 mg	16 8 mg
Ondansetron for injection	<u>80</u>	<u>8</u> 16 mg
Sodium Bicarbonate for injection	50 mEq	100mEq <u>50mEq</u>
IV start kit, which contains: – (2) Alcohol or Chlorhexidine wipes, (1) Roll tape, 3/4”, (2) – 2” x 2” gauze sponge, (1) ID label, (1) Providone iodine prep, (1) Adhesive bandage, (1) Latex Free Tourniquet, (1) OpSite Dressing (or equivalent)	3	<u>84</u>
Disposable razors	2	2
IV catheters each size: 16ga, 18ga, 20ga, 22ga	2	<u>52 ea</u>
IV catheters each size: 14ga, 24ga	2	<u>2 ea</u>
Hypodermic needles each size: 20ga, 21ga, 22ga <u>21ga, 23ga, 25ga</u>	2	<u>2 ea</u> <u>5</u>
Disposable syringes each size: 1ml sub-q, 3ml, 5ml/6ml, 10ml/12ml	2	<u>32</u>
Disposable syringes each size: 20ml/30ml	<u>4</u>	<u>2</u>
IEZ <u>IO</u> drill	<u>01</u>	1
EZ <u>IO</u> Needles each size: 15mm, 25mm	<u>01</u>	1
Betadine solution or swabs	2	4
Solution administration set, Macro drip	2	<u>42</u>
Solution administration set, Micro drip	1	2
<u>IV extension tubing</u>	<u>2</u>	<u>4</u>

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Table 3: ALS Specific Medications, Supplies, and Equipment	Minimum Level	Par-Level
	ALS NT	ALS AMB
Secondary IV infusion kit	<u>2</u>	<u>4</u>
Medication added labels	<u>2</u>	<u>4</u>
Saline locks	<u>2</u>	<u>4</u>
Dial-a-Flow or equivalent	1	1
1000ml Pressure infusion bag or equivalent	1	1
Mucosal Atomizer Device	2	2

Table 4 Optional Equipment	Minimum Level	Par-Level
	ALS NT	ALS AMB
Non C Channel Video Laryngoscope with photo or video recording ability *Must be approved by <u>EMS Medical Director</u> prior to being put into service.	1	1

**CCT/SCT units shall be stocked to the ALS AMB level listed above

Table 5: CCT/ SCT Recommended Medications, Supplies, and Equipment	
<u>BVM PEEP valve</u>	<u>2</u>
<u>Dual Luman Salem Pump (10, 14, 16 Fr)</u>	<u>1ea</u>
<u>Doppler</u>	<u>1</u>
<u>Tube Ultra Sound Gel</u>	<u>1</u>
<u>Reflex hammer</u>	<u>1</u>
<u>Suction catheter W/ chimney valve (10-18)</u>	<u>1ea</u>
<u>In-line Ballard suction (24Fr & 8 Fr)</u>	<u>2ea</u>
<u>Salem Sump OG tubes (6fr and 8fr)</u>	<u>1ea</u>
<u>Suction catheter (6Fr and 8Fr)</u>	<u>1ea</u>
<u>Meconium aspirator</u>	<u>1</u>
<u>Un-cuffed ET tube (2.5 -4.0)</u>	<u>1 ea</u>
<u>Pediatric stylet 6fr</u>	<u>1</u>
<u>Neonatal BVM with small and extra small mask</u>	<u>1ea</u>
<u>Pediatric pulse oximeter probes</u>	<u>1ea</u>
<u>SpO2 Ear probe</u>	<u>1</u>
<u>NEO-TEE: T-Piece resuscitator</u>	<u>1</u>
<u>Neo fit ETT holder</u>	<u>1ea</u>
<u>Ram cannula system with (sizes green through purple)</u>	<u>1ea</u>
<u>Edwards (Oval) invasive line cable</u>	<u>1</u>
<u>Abbott (square) invasive line cable</u>	<u>1</u>
<u>Transducer (ext side)</u>	<u>1</u>
<u>Mechanical Ventilator</u>	<u>1</u>

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Table 5: CCT/ SCT Recommended Medications, Supplies, and Equipment

Adult ventilator circuit	2
Pediatric ventilator circuit	2
Multi channel IV pump	1
IV pump line sets	6
IV pump half sets	6
Warming mattress	1
0.2 micron filter	1
Amiodarone 150mg	3
Phenergan 25mg/ml	1
Solu-medrol 125mg	1
Ofimev 1000/100ml	1
Etomidate 40mg 20/ml	1
Rocuronium 100mg/10ml	1
Esmolol 2000mg/100ml	2
Norepinephrine 4mg/4ml	2
Phenylephrine 10mg/ml	1
Calcium Gluconate 1g/10ml	1
Nitroglycerin 50mg/10ml	1
Lasix 100mg/10ml	1
Nicardipine 25mg/10ml	1
Pitocin 10u/1ml	2
Terbutaline	1
Labetalol 100mg/20ml	2

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