

PURPOSE:

The purpose of this policy is to standardize and establish par levels for the medication and equipment available on EMS vehicles in San Joaquin County.

AUTHORITY:

Health and Safety Code, Division 2.5, Sections 1797.197, 1797.197a, 1797.206, 1797.220, 1798; California Code of Regulations, Title 22, Division 9, Chapter 2 Section 100063, 100063.1, 100064, and Chapter 4 Sections 100145, 100146, 100168, 100170.

DEFINITIONS:

- A. "Advanced Life Support" or "ALS" means special services designed to provide definitive prehospital emergency medical care, including, but not limited to, cardiopulmonary resuscitation, cardiac monitoring, cardiac defibrillation, advanced airway management, intravenous therapy, administration of specified drugs and other medicinal preparations, and other specified techniques and procedures administered by authorized personnel under the direct supervision of a base hospital as part of a local EMS system at the scene of an emergency, during transport to an acute care hospital, during inter-facility transfer, and while in the emergency department of an acute care hospital until responsibility is assumed by the emergency or other medical staff of that hospital.
- B. "AMB" means ambulance.
- C. "Basic life support" or "BLS" means emergency first aid and cardiopulmonary resuscitation procedures which, as a minimum, include recognizing respiratory and cardiac arrest and starting the proper application of cardiopulmonary resuscitation to maintain life without invasive techniques until the patient may be transported or until advanced life support is available.
- D. "EMS Service Providers" means an ambulance service or fire department/fire district authorized to provide emergency medical services (EMS) in San Joaquin County.
- E. "EMS Response Vehicle" means all ambulances and any fire apparatus or other motor vehicle used to respond to EMS requests.
- F. "Enhanced Skills EMT" means an EMT that is appropriately trained, meets competency standards, and when on duty affiliated with an authorized SJCEMSA enhanced skills EMT service provider or authorized SJCEMSA ALS service provider, may perform the EMT enhanced skills scope of practice.
- G. "EMT Optional Skill Provider" means an EMS service provider authorized by a written agreement with the SJCEMSA to perform specified EMT optional skills.
- H. "NA" means not authorized.
- I. "NR" means not required.

- J. "NT" means a non-transport EMS response vehicle.
- K. "Par Level" means the minimum quantity of an item stocked at the beginning of a shift, which will be automatically replenished, should the level fall below the preset level.
- L. "SJCEMSA" or "EMS Agency" means the San Joaquin County Emergency Medical Services (EMS) Agency, which is the designated local emergency medical services agency for San Joaquin County and an EMT certifying entity.

POLICY:

- I. EMS Service Providers are required to develop a vehicle inspection procedure to ensure compliance with this policy at the start of each shift. A written record for each daily inspection of each EMS vehicle shall be maintained by the EMS Service Provider in an auditable format for a minimum of six months. EMS Service Providers shall require each attending paramedic or EMT to conduct an inspection of their assigned EMS response vehicle at the beginning of their shift.
- II. The attending paramedic or EMT on each EMS response vehicle is responsible for ensuring that all medications and equipment are present at the beginning of each shift, that all equipment is functioning properly, and that all battery-powered devices are charged.
- III. Expiration dates for medications and supplies must be current, as applicable. All medications, supplies, and equipment shall be stored in accordance with the manufacturer's recommendation unless otherwise specified in this policy.
- IV. The quantities specified are minimum quantities, except controlled substances which are maximum quantities.
- V. EMS Service Providers authorized by SJCEMSA to perform ALS shall obtain from the appropriate State and Federal agencies, including from the Centers for Medicare and Medicaid Services pursuant to the Clinical Laboratory Improvement Amendments (CLIA), the necessary approvals for the use of laboratory devices including point of care testing measuring lab values in the prehospital setting for: glucose, capnometry, capnography, and carbon monoxide.
- VI. EMS Service Providers authorized by SJCEMSA to perform EMT enhanced skills shall obtain from the appropriate State and Federal agencies, including from the Centers for Medicare and Medicaid Services pursuant to the Clinical Laboratory Improvement Amendments (CLIA), the necessary approvals for the use of

laboratory devices including point of care testing measuring lab values in the prehospital setting for: glucose.

- VII. 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.
- VIII. EMS Service Providers that elect to request a waiver from medication or equipment par levels of this policy shall complete and submit Form 4101B, Request for Waiver of Requirements.

Table 1: ALS and BLS Common Equipment	Par Level			
	BLS		ALS	
	NT	AMB	NT	AMB
Airway Management				
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 Size Fr 6, 8 or 10, 12 or 14, 18	1 ea	1 ea	1 ea	1ea
Connecting tubing for suction units	2	2	2	2
Yankauer Tonsil Tip Suction Catheter	2	2	2	2
Disposable bag valve device - adult, with appropriate connector masks	2	2	2	2
Disposable bag valve device – pediatric, with appropriate connector masks for child and infant	1	1	1	1
Tube of water soluble lubricating jelly (or multiple single use packets)	1	1	1	1
Oropharyngeal Airway Kit (adult, child, infant) sizes 0 – 9	1 ea	1 ea	1 ea	1 ea
Tongue blade for use in inserting child and infant OPA	1	1	1	1
Nasopharyngeal Airways, Sizes 20, 24, 28, 32, 36 French	1 ea	1 ea	1 ea	1 ea
Nasal Cannula, pediatric	1	1	1	2
Nasal Cannula, adult	2	2	3	3
Adult Non-rebreather oxygen mask	2	2	2	3
Pediatric Non-rebreather oxygen mask	2	1	1	2

Table 1: ALS and BLS Common Equipment	Par Level			
	BLS		ALS	
	NT	AMB	NT	AMB
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
Spare alkaline batteries for laryngoscope handle	NA	NA	2	2
Disposable Macintosh laryngeal blades: #1, #2, #3, #4	NA	NA	1 ea	1 ea
Disposal Miller laryngeal blades: # 0, #1, #2, #3, #4	NA	NA	1 ea	1 ea
Magill Forceps – Adult and Pediatric	NA	NA	1 ea	1 ea
Endotracheal tubes: 4.0 or 4.5, 5.0 or 5.5, 6.0 or 6.5, 7.0 or 7.5, 8.0 or 8.5	NA	NA	2 ea	2 ea
ET tube holder	NA	NA	2	2
Disposable endotracheal tube introducers	NA	NA	2	2
End tidal CO2 device, adult	NA	NA	1 ea	2 ea
End tidal CO2 device, pediatric	NA	NA	1 ea	2 ea
Nebulizer mask	0	0	1	1
Saline humidifier	1	1	1	1
Breath actuated nebulizer	NA	NA	1	2
Needle and catheter for pleural decompression: 10 or 14 gauge 3.25 inch needle (with Betadine swab, tape, and 10 ml syringe)	NA	NA	4	4
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 - 12 gauge needle for adult, and Betadine swab, or Enk Oxygen Flow Modulator set, (Adult), and Betadine swab.	NA	NA	1	1
iGel Airway sizes 3.0, 4.0, 5.0	NA	NA	1 ea	2 ea
iGel Airway sizes 1.0,1.5, 2.0, 2.5	NA	NA	1	1
Continuous Positive Airway Pressure (CPAP)	NA	NA	0	1
Assessment and Treatment				
Stethoscope	1	1	1	2
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

Table 1: ALS and BLS Common Equipment	Par Level			
	BLS		ALS	
	NT	AMB	NT	AMB
Pulse oximetry device approved by the Food and Drug Administration (FDA); BLS NT and AMB have until July 1, 2020 to implement this requirement.	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 (12 lead capabilities optional for ALS NT)	NA	NA	1	1
Pediatric defibrillation equipment	NA	NA	1	1
ECG electrodes all patient sizes	NA	NA	6 ea	9 ea
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 adult and pediatric	1 set	1 set	NR	NR
Bandage shears (heavy duty)	1	1	1	2
Rolls of tape, size 1” or 2” or 3” Hypoallergenic (Transpore/paper)	2	2	2	2
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
Trauma				
Board for use in extrication	1	1	1	1
One or more of the following for use in patient movement on scene: collapsible litter, poleless 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	1	1	1	1

Table 1: ALS and BLS Common Equipment	Par Level			
	BLS		ALS	
	NT	AMB	NT	AMB
by the EMS Agency				
Pediatric immobilization device	0	0	0	1
X-Collars™	4	4	4	4
Soft cervical collars – small pediatric	2	2	2	2
Adult traction splint	1	1	1	1
Pediatric traction splint or adult traction splint that adjusts to a pediatric size	1	1	1	1
Rigid splints – for splinting each extremity	1 set	2 sets	1 set	2 sets
Sterile burn sheets	2	2	2	4
Occlusive dressings	2	2	2	4
2 x 2 gauze pads Sterile	0	0	4	8
4 x 4 gauze pads Sterile	10	10	10	10
Hemostatic dressings: Quick Clot Combat Gauze LE; or Quick Clot, EMS Rolled Gauze, 4x4 Dressing, TraumaPad; or Celox Gauze, Z-Fold Hemostatic Gauze; or Celox Rapid, Hemostatic Z-Fold Gauze	2	2	2	2
Trauma dressings	2	2	2	4
Gauze roll type bandages, size 2 or 4 or 6	2	2	2	4
Triangular bandages	1	1	1	2
Instant ice packs	2	2	2	8
Trauma Tourniquets: SOF Tactical Tourniquet or the Combat Application Tourniquet (CAT)	4	4	4	4
General Equipment				
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
Patient compartment door latches operable from inside and outside.	NR	1	NR	1
Patient sheets (disposable)	0	2	0	4
Patient blankets (disposable)	1	2	1	2
Patient pillows	0	2	0	2

Table 1: ALS and BLS Common Equipment	Par Level			
	BLS		ALS	
	NT	AMB	NT	AMB
Ambulance gurney with mattress, capable of elevating the head, feet, and adjustable to several levels.	0	1	0	1
VHF and UHF mobile radio with minimum of 45 watt power located in the driver's compartment programmed to communicate with dispatch, hospitals, and other responding units to include the following frequencies: SJC Med Net channels 1 through 8, SJC HEAR, and Cal Cord.	NR	1	1	1
UHF control head, microphone and speaker installed in each ambulance's patient compartment to communicate with the base and receiving hospitals.	NR	1	NR	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	50	20	50	50
MCI Vests - Medical Group Supervisor, Triage Unit Leader (minimum)	0	0	1 ea	1 ea

Infection Control				
Bottle of instant hand sanitizer (alcohol based) or box of disinfectant wipes for human use.	1	2	1	2
Biohazard bags (various sizes recommended)	2	3	3	5
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
Antibacterial disinfectant solution	1	1	1	1
Latex free gloves, multiple sizes, in sufficient quantity.	✓	✓	✓	✓
Gowns, N95 or N100 respirators, eye/face splash guards in quantities and sizes sufficient for all staff necessary to meet OSHA requirements.	✓	✓	✓	✓

Table 2: EMT Optional Skills, EMT Enhanced Skills, and EMT Medications	Par Level			
	BLS			
	NT	AMB		
EPI Pen (for EMT enhanced skill service providers)	1	1		
EPI Pen Junior (for EMT enhanced skill service providers)	1	1		

Table 2: EMT Optional Skills, EMT Enhanced Skills, and EMT Medications	Par Level			
	BLS			
	NT	AMB		
Naloxone preload syringe (for EMT enhanced skill service providers)	2	1		
Mucosal Atomizer Device (for EMT enhanced skill service providers)	2	1		
Glucose for oral administration (tube)	1	1		
Saline/Sterile Water 1000 ml Irrigating	2	2		
Glucometer (for EMT enhanced skill service providers)	1	1		
Glucometer test strips (for EMT enhanced skill service providers)	25	25		
Spare glucometer batteries (for EMT enhanced skill service providers)	1	1		

Table 3: ALS Medication List	Par Level		
	ALS NT	ALS AMB	
Medications			
Acetaminophen – liquid for oral administration	2,600 mg	2,600 mg	
Adenosine for injection	30 mg	30 mg	
Albuterol Aerosolized Solution 2.5 mg each	4	8	
Aspirin, children’s chewable 81 mg tablets	1 bottle	1 bottle	
Atropine for injection	3 mg	6 mg	
Atrovent (Ipratropium bromide HFA) 0.5 mg each	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 (2) 250 ml bags of 10% solution or combination	75 gm or (3) 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	
Fentanyl for injection	300 mcg	500 mcg	

Table 3: ALS Medication List	Par Level		
	ALS NT	ALS AMB	
Glucose for oral administration (tube)	1	2	
Ibuprofen – liquid for oral administration	1,600 mg	1,600 mg	
Lidocaine for injection	200 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	2 bottle	
IV Normal Saline 250ml (maintained at manufacturer’s recommended temperature range)	2	4	
IV Normal Saline <u>1000ml bags</u> (maintained at a range of 2 degrees within normal body temperature)	2	2	
<u>IV warming system</u> capable of maintaining two 1000ml bags at a range of 2 degrees within normal body temperature	1	1	
IV Normal Saline 500ml or 1000ml (maintained at manufacturer’s recommended temperature range)	4-8	8-12	
Normal saline for injection 10ml or 20 ml vials or preloads	4	4	
Saline/Sterile Water 1000ml Irrigating	2	5	
Ondansetron – Packet of 2 x 4mg Oral Disintegrating Tablets	1 packet (8mg)	2 packets (16mg)	
Ondansetron for injection	0	16mg	
Sodium Bicarbonate for injection	50 mEq	100 mEq	
Medication Infusion			
IV start kit, which contains: – (2) Alcohol 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	8	
Disposable razors	2	2	
IV Catheters: 16ga, 18ga, 20ga, 22ga,	2 ea	5 ea	
IV Catheters: 14ga, 24ga	2 ea	2 ea	

Table 3: ALS Medication List	Par Level		
	ALS NT	ALS AMB	
Hypodermic needles 20ga or 21ga, 22ga or 23ga, 25ga	2 ea	5 ea	
Disposable syringes: TB, 3ml, 5ml/6ml, 10ml/12ml	2 ea	3 ea	
Disposable syringes: 20ml/30ml	1	2	
EZ-IO drill	0	1	
EZ-IO Needles: 15mm, 25mm	0	1 ea	
Betadine solution or swabs	2	4	
Solution administration set, Macro drip	2	4	
Solution administration set, Micro drip	1	2	
IV extension tubing	2	4	
Secondary IV infusion kit	2	4	
Medication added labels	2	4	
Saline locks	2	4	
IV pump	0	0	
Dial-a-Flow or equivalent	1	1	
1000ml Pressure infusion bag or equivalent	1	1	
Mucosal Atomizer Device	2	2	