

SAN JOAQUIN COUNTY
EMERGENCY MEDICAL SERVICES AGENCY

TITLE: EMS Response Vehicle Medication and Equipment

EMS Policy No. 4101

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, Section 1797.220 & 1798 et seq.;

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 victim may be transported or until advanced life support is available.
- D. "Critical Care Transport" or "CCT" means an ALS ambulance staffed with two attendants: a paramedic and an authorized register nurse.
- E. "EMS Service Providers" means an ambulance service or fire department/fire district authorized to provide emergency medical services (EMS) in San Joaquin County.
- F. "EMS Response Vehicle" means all ambulances and any fire apparatus or other motor vehicle used to respond to EMS requests.
- 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.

Effective: July 1, 2018
Supersedes: July 1, 2016

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Approved: Signature on file
Medical Director

Signature on file
EMS Administrator

- L. "SJCEMSA" or "EMS Agency" means the San Joaquin County Emergency Medical Services (EMS) Agency.

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, EMT, or CCT Nurse to conduct an inspection of their assigned EMS vehicle unit at the beginning of their shift.
- II. The attending paramedic, EMT, or CCT nurse on each EMS 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.
- V. EMS Policy No. 4102 ALS Medication and Equipment Inventory is revoked.
- VI. 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.
- VII. 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 |
| 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: 2.0 or 2.5, 3.0 or 3.5, 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 |
| Pediatric Stylet | NA | NA | 1 | 2 |
| ET tube holder | NA | NA | 2 | 2 |
| Disposable endotracheal tube introducers | NA | NA | 2 | 2 |
| Meconium aspirators | NA | NA | 1 | 1 |
| End tidal CO2 device, adult | NA | NA | 1 ea | 2 ea |

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| | NT | AMB | NT | AMB |
| End tidal CO2 device, pediatric | NA | NA | 1 ea | 2 ea |
| Nebulizer mask | NA | NA | 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 |
| Cricothyrotomy insertion kit, which includes: 10 ml syringe, Translaryngeal jet ventilator device with push-button and high-pressure tubing with locking device (Adult), or Bag-Valve device (Pediatric), 10 - 12 ga needle for adult, 12 – 14 ga needle for pediatrics, and Betadine swab, or Enk Oxygen Flow Modulator set, (Adult), or Bag-Valve device (Pediatric), and Betadine swab. | NA | NA | 1 | 1 |
| King Airway LTS-D or LT-D Size 4 | NA | NA | 1 ea | 2 ea |
| King Airway LTS-D or LT-D Sizes 3 & 5 | NA | NA | 1 | 1 |
| 60 ML syringe for each King Airway (if kit not purchased) | NR | NR | 2 | 3 |
| Beck Airway Airflow Monitor (BAAM) | NA | NA | 0 | 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 |
| Pulse oximetry device | NA | NA | 1 | 1 |
| Glucose monitoring device with multiple test strips | NA | NA | 1 | 1 |
| Broselow 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 |

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|---|------------------|------------|------------|------------|
| | BLS | | ALS | |
| | NT | AMB | NT | AMB |
| 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 | | | | |
| Long 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, scoop stretcher, or stokes litter | 1 | 1 | 1 | 1 |
| Kendrick Immobilization Device (KED) or Faspint or similar device approved by the EMS Agency | 1 | 1 | 1 | 1 |
| Pediatric immobilization device | 0 | 0 | 0 | 1 |
| X-Collars™ | 4 | 2 | 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 | 4 | 4 | 4 | 4 |

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|---|------------------|------------|------------|------------|
| | BLS | | ALS | |
| | NT | AMB | NT | AMB |
| Application Tourniquet (CAT) | | | | |
| 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 condition 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 | 1 | 1 | 2 |
| Patient pillows | 0 | 2 | 0 | 2 |
| 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 50 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, 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 |
| VHF and UHF portable radio(s) programmed to communicate with dispatch, hospitals, and other responding units to include the following frequencies: SJC Med Net channels 1 through 8, HEAR, and Cal Cord. | Cal Cord Only | 1 | 1 | 2 |
| 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) | 1 | 1 | 1 | 2 |
| Biohazard bags (various sizes recommended) | 2 | 3 | 3 | 5 |

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|--|---|---|---|---|
| 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 and Medications | Par Level | | | |
|--|-----------|-----|-----|-----|
| | BLS | | ALS | |
| | NT | AMB | NT | AMB |
| EPI Pen (for EMT optional skill providers) | 1 | 0 | 0 | 0 |
| EPI Pen Junior (for EMT optional skill providers) | 1 | 0 | 0 | 0 |
| Naloxone preload syringe (for EMT optional skill providers) | 2 | 0 | 0 | 0 |
| Mucosal Atomizer Device (for EMT optional skill and ALS providers) | 2 | 0 | 2 | 4 |
| Glucose Paste (tube) | 1 | 1 | 1 | 2 |
| Saline/Sterile Water 1000 ml Irrigating | 2 | 2 | 2 | 5 |

| Table 3: ALS Medication List | Par Level | | |
|--|---|---|---|
| | ALS NT | ALS AMB | CCT AMB |
| Medications | | | |
| Activated Charcoal in aqueous solution | 50 gm | 50 gm | 50 gm |
| Adenosine | 30 mg | 30 mg | 30 mg |
| Albuterol Aerosolized Solution 2.5 mg each | 4 | 8 | 8 |
| Aspirin, children's chewable 81 mg tablets | 1 bottle | 1 bottle | 1 bottle |
| Atropine | 3 mg | 6 mg | 6 mg |
| Atrovent (Ipratropium bromide HFA) 0.5 mg each | 2 | 3 | 3 |
| Benadryl | 50 mg | 100 mg | 100 mg |
| Calcium Chloride | 0 | 1 gm | 1 gm |
| Dextrose 50% or; Dextrose 10% solution in 250 ml bags | 50 gm or (2) 250 ml bags of 10% solution or combination | 75 gm or (3) 250 ml bags of 10% solution or combination | 75 gm or (3) 250 ml bags of 10% solution or combination |
| Dopamine | 0 | 400 mg | 400 mg |
| Epinephrine 1:1,000 | 2 mg | 4 mg | 4 mg |
| Epinephrine 1:10,000 | 4 mg | 8 mg | 8 mg |
| Fentanyl | 300 mcg | 500 mcg | 500 mcg |

| Table 3: ALS Medication List | Par Level | | |
|---|----------------|------------------|------------------|
| | ALS NT | ALS AMB | CCT AMB |
| Glucose Paste (tube) | 1 | 2 | 2 |
| Lidocaine | 200 mg | 400 mg | 400 mg |
| Lidocaine premix | 0 | 2 gm | 2 gm |
| Lidocaine Jelly | 0 | 2 oz | 2 oz |
| Magnesium Sulfate | 0 | 2 gm | 2 gm |
| Midazolam | 10 mg | 20 mg | 20 mg |
| Morphine Sulfate | 20 mg | 40 mg | 40 mg |
| Naloxone | 2 mg | 4 mg | 4 mg |
| Neosynephrine – 0.5 mg per metered dose | 0 | 1 bottle | 1 bottle |
| Nitroglycerin paste 1 inch foil packs | 1 | 2 | 2 |
| Nitroglycerin spray (minimum of 60 metered doses) or Tablet 1/150 gr | 1 bottle | 2 bottle | 2 bottle |
| IV Normal Saline <u>1000ml bags</u> (maintained at a range of 2 degrees within normal body temperature body temperature | 2 | 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 | 1 |
| IV Normal Saline 500ml or 1000ml (maintained at manufacturer's recommended temperature range) | 4-8 | 8-12 | 8-12 |
| Normal saline for injection 10ml or 20 ml vials or preloads | 4 | 4 | 4 |
| Saline/Sterile Water 1000ml Irrigating | 2 | 5 | 5 |
| Ondansetron – Packet of 2 x 4mg Oral Disintegrating Tablets | 1 packet (8mg) | 2 packets (16mg) | 2 packets (16mg) |
| Ondansetron | 0 | 16mg | 16mg |
| Sodium Bicarbonate | 50 mEq | 100 mEq | 100 mEq |
| | | | |

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| 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 | 8 |
| Disposable razors | 2 | 2 | 2 |
| IV Catheters: 16ga, 18ga, 20ga, 22ga, | 2 ea | 5 ea | 5 ea |
| IV Catheters: 14ga, 24ga | 2 ea | 2 ea | 2 ea |
| Hypodermic needles 20ga or 21ga, 22ga or 23ga, 25ga | 2 ea | 5 ea | 5 ea |
| Disposable syringes: TB, 3ml, 5ml/6ml, 10ml/12ml | 2 ea | 3 ea | 3 ea |
| Disposable syringes: 20ml/30ml | 1 | 2 | 2 |
| EZ-IO drill | 0 | 1 | 1 |
| EZ-IO Needles: 15mm, 25mm, 45mm | 0 | 1 ea | 1 ea |
| Betadine solution or swabs | 2 | 4 | 4 |
| Solution administration set, Macro drip | 2 | 4 | 4 |
| Solution administration set, Micro drip | 1 | 2 | 2 |
| IV extension tubing | 2 | 4 | 4 |
| Saline locks | 2 | 4 | 4 |
| IV pump | 0 | 0 | 1 |
| Dial-a-Flow or equivalent | 1 | 1 | 1 |
| 1000ml Pressure infusion bag or equivalent | 1 | 1 | 1 |
| Special Equipment | | | |
| Powered mechanical ventilator | 0 | 0 | 1 |