



# SAN MATEO COUNTY HEALTH EMERGENCY MEDICAL SERVICES

POLICY NO:	EQP 1
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## EMERGENCY AMBULANCE AND FIRST RESPONDER STAFFING, MEDICATIONS, MEDICAL EQUIPMENT, AND SUPPLIES

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### I. PURPOSE

This policy establishes requirements for emergency ambulance and first responder staffing, medications, equipment, and supplies for emergency ambulances, first responder apparatus, and EMS supervisor vehicles. This policy further defines restocking requirements of medications, medical supplies, and equipment.

### II. AUTHORITY

California Health and Safety Code, Division 2.5, §1798

### III. DEFINITIONS

Advanced Life Support (“ALS”) Ambulance [or “Paramedic Ambulance”]: An ambulance authorized by LEMSA to provide ALS emergency services within San Mateo County.

Advanced Life Support (“ALS”) First Responder Unit (“FRU”): A fire department first responder authorized by LEMSA to provide ALS emergency services within San Mateo County.

Basic Life Support (“BLS”) Ambulance: An ambulance authorized by LEMSA to provide BLS emergency services within San Mateo County.

Basic Life Support (“BLS”) First Responder Unit (“FRU”): A fire department first responder authorized by LEMSA to provide BLS emergency services within San Mateo County.

Emergency Medical Services Agency (“LEMSA”) [or “Agency”]: The San Mateo County EMS Agency.

### IV. STAFFING REQUIREMENTS

- A. ALS ambulance shall be staffed with a minimum of one currently licensed and LEMSA accredited paramedic and one currently California certified EMT.
- B. ALS first responder apparatus shall be staffed with a minimum of two personnel, at least one of whom is a currently licensed and LEMSA accredited paramedic.
- C. BLS first responder apparatus shall be staffed with a minimum of two personnel, at least

one of whom is a currently California certified EMT.

D. EMS Supervisor vehicles shall be staffed with a minimum of one currently licensed and LEMSA accredited paramedic.

## V. MEDICATION REQUIREMENTS

The following medications are authorized at minimum levels to be carried on all San Mateo County emergency ambulances, first response units, EMS Supervisor units.

Medication	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
Adenosine	n/a	36 mg	n/a	18 mg	18 mg
Albuterol 0.83% solution	n/a	8 vials	n/a	4 vials	4 vials
Aspirin (81 mg tablets)	1 bottle	2 bottles	1 bottle	1 bottle	1 bottle
Atropine 1mg preload	n/a	2 mg	n/a	1 mg	1 mg
Atropine multi-dose vial (single patient use only)	n/a	1 bottle	n/a	1 bottle	1 bottle
Calcium Chloride 1 g preload	n/a	2 g	n/a	1 g	1 g
Dextrose 10% (25 g/250 ml) 250 ml premixed bag	n/a	50 g	n/a	25 g	25 g
Diphenhydramine 50 mg/1 ml	n/a	100 mg	n/a	100 mg	100 mg
Dopamine 400 mg/250 ml premixed bag	n/a	800 ml	n/a	400 ml	400 ml
Epinephrine 1:1,000 (1 mg/1 ml) vial	n/a	12 mg	n/a	6 mg	6 mg
Epinephrine 1: 10,000 (1 mg/10 ml) preload	n/a	8 mg	n/a	4 mg	4 mg
Fentanyl (50 mcg/1 ml) vial	n/a	200 mcg	n/a	100 mcg	100 mcg
Glucagon 1 mg vial	n/a	2 mg	n/a	1 mg	1 mg
Glucose - oral	2 doses	2 doses	1 dose	1 dose	1 dose
Lidocaine (100 mg/5 ml) preload	n/a	400 mg	n/a	200 mg	200 mg
Midazolam (5 mg/1 ml) vial	n/a	20 mg	n/a	10 mg	10 mg
Ondansetron (4 mg/ 2 ml) vial	n/a	16 mg	n/a	8 mg	8 mg
Ondansetron 4 mg tablet	n/a	16 mg	n/a	8 mg	8 mg
Naloxone (2 mg/2 ml) preload	8 mg	8 mg	4 mg	4 mg	4 mg
Nitroglycerine tablets	n/a	2 bottles	n/a	1 bottle	1 bottle
Sodium Bicarbonate (1 mEq/1 ml) preload	n/a	100 mEq	n/a	100 mEq	100 mEq
<b>IV Fluids</b>	<b>BLS Ambulance</b>	<b>ALS Ambulance</b>	<b>BLS FRU</b>	<b>ALS FRU</b>	<b>EMS Supervisor</b>
Normal Saline 1,000 ml bag	n/a	6,000 ml	n/a	1,000 ml	1,000 ml
Normal Saline 10 ml vial or syringe	n/a	40 ml	n/a	20 ml	20 ml

## VI. MEDICAL SUPPLIES AND EQUIPMENT

The following equipment is authorized at minimum levels to be carried on all San Mateo County emergency ambulances, first response units, EMS Supervisor vehicles.

Personal Protective Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
Latex-free exam gloves	2 boxes	2 boxes	1 box	1 box	1 box
Sterile gloves (sizes 5, 6, 7, 8)	2 each	2 each	n/a	n/a	n/a
Isolation gown	1 per person	1 per person	1 per person	1 per person	1 per person
Isolation mask (surgical)	1 per person	1 per person	1 per person	1 per person	1 per person
Medical waste bag (red)	2	2	1	1	1
N95 or P100 mask	1 per person	1 per person	1 per person	1 per person	1 per person
Eye protection	1 per person	1 per person	1 per person	1 per person	1 per person
Airway Management Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
Laryngoscope handle (adult, pediatric)	n/a	1 each	n/a	1 each	1 each
Adult blade (straight 3, 4)	n/a	1 each	n/a	1 each	1 each
Adult blade (curved 3, 4)	n/a	1 each	n/a	1 each	1 each
Pediatric blade (straight 0,1,2)	n/a	1 each	n/a	1 each	1 each
Pediatric blade (curved 1, 2)	n/a	1 each	n/a	1 each	1 each
ET tubes (sizes 6.0 – 8.0)	n/a	2 each	n/a	1 each	1 each
ETTI (Bougie)	n/a	2 each	n/a	1 each	1 each
Bacterial/ viral BVM filter	1 each	2 each	1 each	1 each	1 each
ETT holder (tube tamer)	n/a	2 each	n/a	1 each	1 each
King airway (size 3, 4, 5)	1 each	2 each	1 each	1 each	1 each
CPAP devices (S, M, L)	1 each	2 each	1 each	1 each	1 each
EtCO <sub>2</sub> device (ETT)	n/a	2 each	n/a	1 each	1 each
EtCO <sub>2</sub> device (nasal)	n/a	2 each	n/a	1 each	1 each
CO monitoring device	n/a	n/a	n/a	n/a	1 each
Powered portable suction	1 each	1 each	1 each	1 each	1 each
Patient Assessment and Exam Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
Glucometer and test strips	1 each	1 each	1 each	1 each	1 each
Stethoscope	1 each	1 each	1 each	1 each	1 each
Pediatric Broselow tape	n/a	1 each	n/a	1 each	1 each
Portable blood pressure cuff (adult, thigh, pediatric)	1 each	1 each	1 each	1 each	1 each
Pulse oximeter (adult, pediatric)	1 each	1 each	1 each	1 each	1 each
Thermometer	1 each	1 each	1 each	1 each	1 each
Magill forceps (adult, pediatric)	n/a	1 each	n/a	1 each	1 each
Pleural decompression kit	n/a	1 each	n/a	1 each	1 each
Water-based lubricant	n/a	4 each	n/a	2 each	2 each
Suction catheters (sizes 6, 8, 10, 14, 16)	2 each	2 each	1 each	1 each	1 each
Suction catheter (rigid tip)	2 each	2 each	1 each	1 each	1 each
Suction tubing	2 each	2 each	1 each	1 each	1 each
Portable suction (battery powered)	1 each	1 each	1 each	1 each	1 each
Nasal airways (sizes 28, 30, 32, 34)	2 each	2 each	1 each	1 each	1 each
Oral airways (sizes 0, 1, 2, 3, 4, 5, 6 (or metric equivalent))	2 each	2 each	1 each	1 each	1 each
Nasal cannula (adult)	4 each	4 each	1 each	1 each	1 each
Nasal cannula (pediatric)	2 each	2 each	1 each	1 each	1 each
Non-rebreather mask (adult)	4 each	4 each	2 each	2 each	2 each
Oxygen mask (pediatric)	2 each	2 each	1 each	1 each	1 each

<b>Patient Assessment and Exam Equipment</b>	<b>BLS Ambulance</b>	<b>ALS Ambulance</b>	<b>BLS FRU</b>	<b>ALS FRU</b>	<b>EMS Supervisor</b>
Oxygen mask (infant)	2 each	2 each	1 each	1 each	1 each
Pen light	2 each	2 each	1 each	1 each	1 each
Bag-valve-mask (adult, pediatric)	2 each	2 each	1 each	1 each	1 each
Bag-valve-mask (infant)	1 each	1 each	1 each	1 each	1 each
Portable oxygen with regulator (must be sufficient to provide patient with not less than 10 L/min for 20 minutes)	1 each	1 each	1 each	1 each	1 each
Oxygen gaskets for regulator	1 each	1 each	1 each	1 each	1 each
Oxygen regulator wrench	1 each	1 each	1 each	1 each	1 each
<b>Cardiac Monitoring Equipment</b>	<b>BLS Ambulance</b>	<b>ALS Ambulance</b>	<b>BLS FRU</b>	<b>ALS FRU</b>	<b>EMS Supervisor</b>
AED/defibrillator	1 each	n/a	1 each	n/a	n/a
Metronome	1 each	1 each	1 each	1 each	1 each
Portable biphasic cardiac monitor/defibrillator with 12-Lead and transmission capabilities and EtCO2 waveform capnography (County approved)	n/a	1 each	n/a	1 each	1 each
ECG paper (roll)	n/a	2 each	n/a	2 each	2 each
Adult electrodes (sets)	n/a	2 each	n/a	1 each	1 each
Pediatric electrodes (sets)	n/a	2 each	n/a	1 each	1 each
Adult defib pads	2 each	2 each	1 each	1 each	1 each
Pediatric defib pads	2 each	2 each	1 each	1 each	1 each
Cardiac monitor trunk cable	n/a	1 each	n/a	1 each	1 each
Cardiac monitor 12-Lead ECG cable	n/a	1 each	n/a	1 each	1 each
Cardiac monitor 4-Lead precordial lead cable	n/a	1 each	n/a	1 each	1 each
<b>Bandaging and Splinting Equipment</b>	<b>BLS Ambulance</b>	<b>ALS Ambulance</b>	<b>BLS FRU</b>	<b>ALS FRU</b>	<b>EMS Supervisor</b>
Sterile bandage compress	12 each	12 each	4 each	4 each	4 each
Petroleum gauze pads	2 each	2 each	1 each	1 each	1 each
Gauze pads (4"x4")	12 each	12 each	4 each	4 each	4 each
Universal dressing (10"x30")	2 each	2 each	1 each	1 each	1 each
Triangular bandage (40")	2 each	2 each	2 each	2 each	2 each
Rolled bandage (Kerlix)	6 each	6 each	2 each	2 each	2 each
Trauma shears	1 each	1 each	1 each	1 each	1 each
Extremity traction splint	1 each	1 each	1 each	1 each	n/a
Cervical collar (rigid) to fit all patients > 1 year	2 each	2 each	1 each	1 each	1 each
Gauze pads (4"x4")	12 each	12 each	4 each	4 each	4 each
Medium vacuum splint (disposable)	2 each	2 each	1 each	1 each	n/a
Cardboard splint (arm, leg)	1 each	1 each	1 each	1 each	n/a
Rigid SAM-type splint	2 each	2 each	2 each	2 each	2 each
Spinal immobilization device (backboard)	1 each	1 each	1 each	1 each	n/a
Spinal immobilization straps	2 each	2 each	1 each	1 each	n/a
Pediatric immobilization device	1 each	1 each	1 each	1 each	n/a

<b>Bandaging and Splinting Equipment</b>	<b>BLS Ambulance</b>	<b>ALS Ambulance</b>	<b>BLS FRU</b>	<b>ALS FRU</b>	<b>EMS Supervisor</b>
KED-type device	1 each	1 each	n/a	n/a	n/a
Triangular bandage (40")	2 each	2 each	2 each	2 each	2 each
Sterile burn sheet	2 each	2 each	1 each	1 each	1 each
Head immobilizer	2 each	2 each	2 each	2 each	2 each
Tape (1", 2" rolls)	1 each	1 each	1 each	1 each	1 each
Arm board (short, long)	1 each	1 each	n/a	n/a	n/a
Cold packs	2 each	2 each	2 each	2 each	2 each
Hot packs	1 each	1 each	1 each	1 each	1 each
Restraints (set)	1 each	1 each	n/a	n/a	n/a
Hemostatic gauze	2 each	2 each	2 each	2 each	2 each
Russell chest seal	2 each	2 each	2 each	2 each	2 each
Irrigation solution 500 ml sterile saline	2 each	2 each	n/a	n/a	n/a
Irrigation solution 500 ml sterile water	2 each	2 each	n/a	n/a	n/a
OB kit that includes gloves, umbilical cord clamp/tape, dressings, towel, bulb syringe, medical waste bags	1 each	1 each	1 each	1 each	1 each
<b>IV, Saline Lock, and Blood Drawing Equipment</b>	<b>BLS Ambulance</b>	<b>ALS Ambulance</b>	<b>BLS FRU</b>	<b>ALS FRU</b>	<b>EMS Supervisor</b>
Infusion set (macro drip)	n/a	6 each	n/a	1 each	1 each
Infusion set (micro drip)	n/a	1 each	n/a	1 each	1 each
3-way stop-cock	n/a	2 each	n/a	1 each	1 each
Saline lock	n/a	6 each	n/a	2 each	2 each
Syringes (1, 3, 10 ml)	n/a	4 each	n/a	2 each	2 each
IV catheters (14, 16, 18, 20, 22, 24 g)	n/a	4 each	n/a	2 each	2 each
Needles for injection (23 g 1")	n/a	2 each	n/a	2 each	2 each
Intraosseous driver	n/a	1 each	n/a	1 each	1 each
IO needles (yellow, pink, blue) with tubing	n/a	2 each	n/a	1 each	1 each
Prep razor	n/a	1 each	n/a	1 each	1 each
Alcohol wipes	n/a	10 each	n/a	10 each	10 each
Betadine wipes	n/a	6 each	n/a	6 each	6 each
IV tourniquets	n/a	2 each	n/a	2 each	2 each
Pressure infuser for 1,000 ml IV bags	n/a	1 each	n/a	1 each	1 each
Portable sharps container	n/a	1 each	n/a	1 each	1 each
<b>Communication Equipment</b>	<b>BLS Ambulance</b>	<b>ALS Ambulance</b>	<b>BLS FRU</b>	<b>ALS FRU</b>	<b>EMS Supervisor</b>
Cellular telephone	1 each	1 each	1 each	1 each	1 each
Mobile two-way EMS radio installed in vehicle	1 each	1 each	n/a	n/a	1 each
Portable two-way EMS/ fire radio for each crew member	1 per person	1 per person	1 per person	1 per person	1 per person
Mobile or portable two-way fire radio	1 each	1 each	1 each	1 each	1 each

Miscellaneous Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
Portable medication box	1 each	1 each	1 each	1 each	1 each
Point of Injury kit (complete)	1 each	1 each	1 each	1 each	1 each
Emesis basin	2 each	2 each	n/a	n/a	n/a
Urinal	1 each	1 each	n/a	n/a	n/a
Bedpan	1 each	1 each	n/a	n/a	n/a
DOT Emergency Response Guide (ERG)	1 each	1 each	1 each	1 each	1 each
Stair chair	1 each	1 each	n/a	n/a	n/a
Gurney with 3 sets seatbelts	1 each	1 each	n/a	n/a	n/a
Scoop stretcher	1 each	1 each	n/a	n/a	n/a
Mega mover device	1 each	1 each	1 each	1 each	1 each
Triage tags (County approved)	10 each	10 each	10 each	10 each	10 each
Triage tape (all colors)	1 each	1 each	1 each	1 each	1 each
Potable water (gallon)	1 each	1 each	1 each	1 each	1 each
Reflective vest for road use for each crew member	1 each	1 each	1 each	1 each	1 each
Map book containing San Mateo County roadways	1 each	1 each	n/a	n/a	n/a
San Mateo County adult drug card	1 each	1 each	1 each	1 each	1 each
San Mateo County pediatric drug card	1 each	1 each	1 each	1 each	1 each

### VIII. RESTOCKING OF MEDICATIONS, MEDICAL SUPPLIES, AND EQUIPMENT

All prehospital providers share responsibility for restocking their ambulance or respective first response apparatus. On-duty paramedics or EMS Supervisors are responsible for ensuring in-service ambulances and FRUs have appropriate levels of medications, medical supplies, and equipment at all times. When needed, the on-duty supervisor will be requested to restock. The on-duty supervisor will ensure the timely resupply of ambulances or first response apparatus to maintain the minimum levels as required by this policy.