

EMS POLICY	205
Effective:	April 2024
Approval: EMS Director Travis Kusman, MPH	Signed:
Approval: EMS Medical Director Greg Gilbert, MD	Signed:

EMERGENCY AMBULANCE AND FIRST RESPONSE UNIT STANDARDS

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 first responder unit authorized by LEMSA to provide ALS emergency services within San Mateo County.

<u>Basic Life Support ("BLS") Ambulance</u>: An ambulance authorized by LEMSA to provide BLS emergency services within San Mateo County.

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

<u>Emergency Medical Services Agency ("LEMSA") [or "Agency"]</u>: The San Mateo County EMS Agency is designated as the Local Emergency Medical Services Agency (LEMSA) and is statutorily charged with primary responsibility for administration and medical control of emergency medical services in San Mateo County.

IV. STAFFING REQUIREMENTS

- A. Each ALS ambulance shall be staffed with a minimum of one currently licensed and LEMSA accredited paramedic and one currently California certified EMT.
- B. Each 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. Each 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. Each EMS Supervisor vehicle shall be staffed with a minimum of one currently licensed and accredited paramedic approved by the LEMSA to function in a supervisory capacity.

V. MEDICATION REQUIREMENTS

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

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, and EMS Supervisor vehicles.

Medication	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
Acetaminophen (IV)	n/a	2 g	n/a	1 g	1 g
1 g/ 100 ml bag				ı y	' 9
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
EpiPen (adult)	1	n/a	1	n/a	n/a
EpiPen Jr. (pediatric)	1	n/a	1	n/a	n/a
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
Naloxone M.A.T. leave behind*	n/a	2 mg	n/a	2 mg	2 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
Suboxone*	n/a	48 mg	n/a	48 mg	24 mg
IV Fluids	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
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

^{*}ALS units may temporarily operate without buprenorphine and leave behind naloxone while waiting to be restocked by an EMS supervisor.



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
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
Airtraq A-390 device	n/a	1 each	n/a	1 each	1 each
Airtraq blade (size 2, 3)	n/a	1 each	n/a	1 each	1 each
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
i-gel airway (size 3, 4, 5)	1 each	2 each	1 each	1 each	1 each
Magill forceps (adult, pediatric)	n/a	1 each	n/a	1 each	1 each
CPAP devices (S, M, L)	1 each	2 each	1 each	1 each	1 each
EtCO ₂ device (ETT)	n/a	2 each	n/a	1 each	1 each
EtCO ₂ 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
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
Nasal airways (sizes 28, 30, 32, 34)	2 each	2 each	1 each	1 each	1 each
Oral airways (sizes 50 mm – 120 mm)	2 each	2 each	1 each	1 each	1 each
Bag-valve-mask (infant)	1 each	1 each	1 each	1 each	1 each
Bag-valve-mask (adult, pediatric)	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
Handheld nebulizer kit	1 each	2 each	1 each	1 each	1 each
Water-based lubricant	n/a	4 each	n/a	2 each	2 each
10g 3.25" spear with vent valve	n/a	2 each	n/a	2 each	2 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



Patient Assessment and Exam Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
	O anak	0	4 anah	4	4
Pen light	2 each	2 each	1 each	1 each	1 each
Glucometer and test strips	1 each	1 each	1 each	1 each	1 each
Stethoscope Redictric Procedow topo	1 each	1 each	1 each n/a	1 each	. 505
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
Cardiac Monitoring Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
AED/defibrillator with pads	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 EtCO ₂ 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
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
Prep razor	n/a	1 each	n/a	1 each	1 each
Vascular Access Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
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
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



Bandaging and Splinting Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
Pediatric immobilization device	1 each	1 each	1 each	1 each	n/a
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	n/a
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	4 each	4 each	4 each	4 each	4 each
Restraints (set)	1 each	1 each	n/a	n/a	n/a
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, ID bands	1 each	1 each	1 each	1 each	1 each
Sterile 5"x9" bandage	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
Communication Equipment	BLS Ambulance	ALS Ambulance	BLS FRU	ALS FRU	EMS Supervisor
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 (POI) kit (must include two (2) windlass-style tourniquets, two (2) Russell chest seals, and two (2) hemostatic z-fold packing gauze)	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
Blanket	1 each	1 each	1 each	1 each	1 each
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
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

VIII. RESTOCKING OF MEDICATIONS, MEDICAL SUPPLIES, AND EQUIPMENT

On-duty paramedics and EMS Supervisors are responsible for ensuring in-service ambulances and FRUs within their respective control comply with the requirements of this Policy and are stocked with adequate levels of medications, medical supplies, and equipment at all times. All prehospital providers share responsibility for restocking their assigned ambulance or first response apparatus. When needed, the on-duty EMS Supervisor will be requested to restock. The on-duty EMS Supervisor will ensure the timely resupply of ambulances or first response apparatus to maintain the minimum levels required by this Policy.

IX. FIRST RESPONSE UNIT AND AMBULANCE INSPECTION AND RIDE ALONGS

The LEMSA reserves the right to inspect or ride along on any first response unit or ambulance utilized to respond to requests for service within the 9-1-1 system without prior notice. Any first response unit or ambulance that does not meet the standards outlined in this Policy shall not be permitted to respond to 9-1-1 requests for service. LEMSA reserves the right to reinspect any first response unit or ambulance identified to be non-compliant with this Policy prior to its return to operations in the provision of emergency medical services.

