

SAN FRANCISCO EMERGENCY MEDICAL SERVICES AGENCY

Policy Reference No.: 4001

Effective Date: July 1, 2014

Supersedes: July 1, 2013

VEHICLE EQUIPMENT & SUPPLY LIST

I. PURPOSE

To establish consistent minimum equipment and supplies standards for Basic Life Support and Advanced Life Support vehicles in the City and County of San Francisco.

II. POLICY

- A. This policy does not supersede the California Vehicle Code or the California Code of Regulations requirements for ambulance equipment.
- B. All ambulances shall be inspected by the EMS Agency to receive a permit to operate in the City and County of San Francisco. Inspections shall be done at the time of issuing the initial permit, then annually thereafter. Ambulances must demonstrate compliance to the equipment standards in this policy to qualify for a permit.
- C. All first responder units, ambulances and supervisory units shall minimally stock the equipment and supplies as listed in the attachment to this policy. **Actual quantities stocked should take into consideration the amounts typically used in a shift(s) plus additional quantities to maintain adequate supplies for periods of high demand or re-stocking delays.**
- D. Every ALS and BLS first response, ambulance and supervisory units shall have an 800MHz radio in compliance with *Policy 3010 EMS Communications Equipment and Procedures*.
- E. Every BLS and ALS mobile team (foot, bicycle or gator) ALS units and field supervisor units shall have the appropriate medical supplies and equipment to provide patient care.
- F. First responder vehicles, supervisor vehicles, or ambulances may not stock any medications, or medical devices or equipment that is not approved in advance by the EMS Agency Medical Director.
- G. Each ambulance company provider shall create a "par-list" check out sheet for every first responder unit, ambulance, ambulance, and engine that identifies the minimum number of each piece of equipment required on each unit. Crew members shall inspect their unit at least once every 24-hour period to verify that the minimum

level of equipment is present on the vehicle. A crew member shall attest to the completed inspection, by signing the check out sheet. The ambulance provider company shall maintain document as a record for six months.

III. AUTHORITY

San Francisco Health Code, Article 14, Section 903

California Vehicle Code, Section 2500 - 2505

California Health and Safety Code, Section 1797.220

California Code of Regulations, Title 13, Division 2, Chapter 5, Article 1, § 1100

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Attachment: Policy 4001 Minimum Equipment Requirements					
Line #	AIRWAY / RESPIRATORY	BLS First Response	BLS Amb	ALS First Response	ALS Amb
1	M, or H oxygen cylinder	-	1	-	1
2	Oxygen Flowmeter capable of delivering 2-15 LPM	-	1	-	1
3	D or E size oxygen cylinders	2	3	2	3
4	Regulators for D or E Oxygen Cylinders capable of delivering 2-15 LPM	1	1	1	1
5	Nasal Cannulas - Adult	2	2	2	2
6	Nasal Cannulas - Pedi	1	2	1	2
7	Simple Oxygen Masks - Infant	-	1	-	1
8	Non-Rebreather Masks - Adult	1	2	1	2
9	Non-Rebreather Masks - Pedi	1	1	1	1
10	Bag Valve Masks - Adult	2	3	2	3
11	Bag Valve Masks - Pedi	2	2	2	2
12	Bag Valve Masks - Infant	2	2	2	2
13	Oral Airway, Set with sizes 0, 1, 2, 3, 4, 5, & 6	1	1	1	1
14	Nasal Pharyngeal Airways Set of sizes 26, 28, 30, 32, & 34 Fr	1	1	1	1
15	Tongue Depressors	2	2	2	2
16	Portable Suction Device - Manual Pump Type OR	1	1	1	1
17	Portable Suction Device - Battery Operated	1	1	1	1
18	Rigid Pharyngeal Tonsil Tip (Yankauer Suction)	1	1	1	1
19	Suction Tubing	1	2	1	2
20	Suction Bulbs 1oz, 2oz, or 3oz (sterile)	-	1	-	1
21	Suction Catheters 6, 8, 10, 12, & 14 Fr	-	-	2	2

22	King Laryngeal Tube, Adult, Sizes 3, 4 and 5	-	-	1	1
23	King Laryngeal Tube, Pedi / Infant, 2.0, 2.5	-	-	1	1
24	Uncuffed Endotracheal Tubes, 2.0, 2.5, 3.0	-	-	2	2
25	Meconium Aspirator	-	-	2	2
26	Cuffed Endotracheal Tubes, 6.0, 6.5, 7.0, 7.5, 8.0, & 8.5	-	-	2	2
27	ET Tube holder or ties	-	-	2	2
28	Laryngoscope Blades w/ extra bulbs, Miller Type: 0, 1, 2, 3, & 4	-	-	1	1
29	Laryngoscope Blades w/ extra bulbs, Macintosh Type: 1, 2, 3, & 4	-	-	1	1
30	(Optional) Video Laryngoscope Blades (Vivid Trac, Glidescope, CMAC), Adult and Child	-	-	1	1
31	Large Laryngoscope Handle	-	-	1	1
32	Small Laryngoscope Handle	-	-	1	1
33	Stylettes: Adult (If not in ETT)	-	-	1	1
34	Magill Forceps, Adult	-	-	1	1
35	Magill Forceps, Pedi	-	-	1	1
36	10 or 12 mL syringe with leur slip tip	-	-	1	1
37	Beck Airway Airflow Monitor (BAAM) Whistle	-	-	1	1
38	Cetacaine Spray bottle	-	-	1	1
39	Lidocaine gel 2% tube or bottle	-	-	1	1
40	Phenylephrine HCL 0.25% or 0.50% nasal spray bottle	-	-	1	1
41	Handheld Nebulizer	-	-	2	2
42	Needle Cricothyroidotomy Kit (WITHOUT scalpel)	-	-	1	1
43	CPAP Device able to deliver PEEP of 10 mm H ₂ O, breathing circuits, masks	-	-	1	1
44	Electronic Capnography device (may be integrated in cardiac monitor)	-	-	1	1
45	Capnography filterline with adapter to connect to ET tube	-	-	1	1
46	Pulse Oximeter (may be integrated into cardiac monitor)	-	-	1	1
47	(Optional) Carboxyhemoglobin Monitor (may be integrated into cardiac monitor)	-	-	1	1

48	Adult Finger Probes for pulse oximetry (reusable)	-	-	1	1
49	Pediatric Finger Probes for pulse Oximetry	-	-	1	1
50	Infant Finger Probes for pulse Oximetry	-	-	1	1
51	Jet Insufflation Ventilator for Needle Cricothyroidomy	-	-	1	1
52	CARDIOVASCULAR	BLS First Response	BLS Amb	ALS First Response	ALS Amb
53	Semi-automatic defibrillator	1	1	-	-
54	Semi-automatic defibrillator pads – Adult (disposable razors are recommended as optional stock)	1	1	-	-
55	Semi-automatic defibrillator pads - Pedi	1	1	-	-
56	Stethoscope	1	1	1	1
57	Blood Pressure Cuff - Adult	1	1	1	1
58	Blood Pressure Cuff - Obese or Thigh	-	1	1	1
59	Blood Pressure Cuff - Pedi	-	1	1	1
60	Blood Pressure Cuff - Infant	-	1	1	1
61	Portable Cardiac Monitor-Defibrillator w/ cables capable of monitoring, defibrillation, transcutaneous pacing, printing 12-lead EKG and electrical discharge < 25 joules	-	-	1	1
62	ECG recording paper, compatible with monitor	-	-	1	1
63	Multi-function defibrillation pads - Adult, compatible with monitor	-	-	1	2
64	Multi-function defibrillation pads - Pedi, compatible with monitor	-	-	1	1
65	BURNS / TRAUMA / WOUND CARE	BLS First Response	BLS Amb	ALS First Response	ALS Amb
66	Burn Sheets - Sterile (disposable type)	1	1	1	1
67	Saline Solution in 1000mL bags (for irrigation)	2	2	2	2
68	10 or 15 drop/mL administration set (for irrigation)	1	1	1	1
69	Quick Clot Combat Gauze, 50 gm pads	-	-	2	2
70	Sterile gauze pads 3" x 3," 25 per box	1	1	1	1
71	Sterile gauze pads 4" x 4," 12 per box	1	1	1	1
72	Nonsterile 4" x 4" gauze pads, 200 per box	1	1	1	1

73	Abdominal Dressing, 8" x 10" or 5"x9" or similar size	2	4	2	4
74	Trauma Dressings, 10" x 30" or larger	2	2	2	2
75	Stretch-style Sterile Gauze Rolls 4" or 5"	4	4	4	4
76	Petroleum Gauze Pads, 4" x 6" or 3" x 9" (or similar size)	4	4	4	4
77	Triangular Bandages	2	2	2	2
78	Cloth Tape 1," 2" and 3"	2 each size	2 each size	2 each size	2 each size
79	Combat Application Tourniquets or approved equivalent*	1	1	1	1
80	Elastic Bandages 3"	1	1	1	1
81	Band-aids 1," 36 strips	1	1	1	1
82	Instant Cold Packs (8 reserved for ROSC pts on ALS Ambs)	2	2	2	10
83	*Acceptable equivalent includes Combat Application Tourniquet, Emergency and Military Tourniquet, or Special Operations Forces Tactical Tourniquet				
84	IMMOBILIZATION / EXTRICATION	BLS First Response	BLS Amb	ALS First Response	ALS Amb
85	Spine Board	1	2	1	2
86	Lightweight head immobilizer blocks (set)	1	2	1	2
87	4 seatbelt type straps, 3 long/box straps, or 1 set of spider straps	1	2	1	2
88	Cervical Collars: Adult	2	2	2	2
89	Cervical Collars: Pedi	2	2	2	2
90	Extremity splint, cardboard or similar product, small 12 - 18"	2	2	2	2
91	Extremity splint, cardboard or similar product, medium 18 - 24"	1	1	2	2
92	Extremity splint, cardboard or similar product, large 24 -36"	2	2	2	2
93	Traction Splints : HARE, adult and pedi size OR	1 each size	1 each size	1 each size	1 each size
94	Traction Splints : Sager OR Equivalent	1	1	1	1
95	Kendrick Extrication Device (KED)	1	1	1	1
96	Pediatric Spinal Immobilization Device	1	1	1	1
97	Flat Stretcher	-	1	-	1
98	Patient Gurney with shoulder harness and limb belts	-	1	-	1
99	Stair chair (or feature that allows gurney to adjust to seated position)	-	1	-	1

100	Scoop Stretcher	-	1	-	1
101	Extremity Restraints - Wrist & Ankle	-	1	-	1
102	INFECTION CONTROL / CREW PPE	BLS First Response	BLS Amb	ALS First Response	ALS Amb
103	Disinfectant Solution or Spray	1	1	1	1
104	Disinfectant Wipes	-	1	-	1
105	Hand sanitizer	1	1	1	1
106	Long-sleeve impermeable gowns	-	1/crew member	-	1/crew member
107	Pair of heavy duty gloves	-	1/crew member	-	1/crew member
108	Safety glasses or goggles	-	1/crew member	-	1/crew member
109	Plastic trash bags	-	1	-	1
110	Infectious waste bags (red biohazard bags)	1	1	1	1
111	Spit socks or hoods	1	2	1	2
112	Helmet: OSHA approved "hard hat" or equivalent	-	1/crew member	-	1/crew member
113	N-95 Masks, in sizes for all crew members, 20/box	1	1	1	1
114	DuoDote Autoinjectors	3/crew member	3/crew member	3/crew member	3/crew member
115	Bag or case for holding 3 DuoDote Autoinjectors	1/crew member	1/crew member	1/crew member	1/crew member
116	Level C PPE Suit	-	1/crew member	-	1/crew member
117	PAPR (or SCBA with extra air cylinders) for each Level C Suit	-	1/crew member	-	1/crew member
118	PEDIATRIC	BLS First Response	BLS Amb	ALS First Response	ALS Amb
119	Pediatric Length-Based Resuscitation Tape	-	-	1	1
120	San Francisco Pediatric Dosage Chart			1	1
121	Stuffed toy for children	-	1	-	1

122	OBSTETRIC	BLS First Response	BLS Amb	ALS First Response	ALS Amb
123	Obstetrical Kit w/ umbilical cord clamps; receiving blanket; infant bunting blanket; infant warming cap; sterile scissors or scalpel; suction bulb; OB pad; plastic bag for placenta	1	1	1	1
124	MISCELLANEOUS	BLS First Response	BLS Amb	ALS First Response	ALS Amb
125	Digital Thermometer	1	1	1	1
126	Trauma Shears	1	1	1	1
127	Hydrogen Peroxide 3% solution 16 oz	2	2	2	2
128	Sterile Water 1000 ml bottles	2	2	2	2
129	Water soluble lubricant, small packets	10	10	10	10
130	Penlights	2	2	2	2
131	Cloth or Disposable Towels	-	4	-	4
132	Disposable Blankets	1	2	1	2
133	Wool blend blankets	1	1	1	1
134	Chemical Heating Blanket (Ready-Heat Blanket or equivalent)	-	1	-	1
135	PARS Check sheet (paper or electronic; signed by field crew)	1	1	1	1
136	Triage Tags (DMS type or equivalent) in addition to tags in the MCI kit	20	20	20	20
137	Sealable bags, gallon-size (e.g. Ziplock)	3	3	3	3
138	Emesis (Kidney) Basins or Bags	-	1	-	1
139	Urinal	-	1	-	1
140	Bedpan	-	1	-	1
141	Sharps Container	-	1	1	1
142	Flashlight with extra batteries or entire extra flashlight	1	1	1	1
143	Drinking water - 1 gallon	-	1	-	1
144	San Francisco County Map or GPS Device	-	1	-	1
145	San Francisco EMS Agency Protocol Manual (current version)	1	1	1	1

146	Pre-hospital Care Report (paper) OR	20	20	20	20
147	E-PCR device	1	1	1	1
148	Cooler or refrigerator capable of maintaining 4 one- liter IV bags of NS at constant temperature of 4 degrees Celsius (may substitute line #81 cold packs)	-	-	-	ALS Supervisor Vehicles and / or ALS Amb
149	Fire Extinguisher, B/C rated, dry chemical or CO2 w/ maintenance tag < 1 year	-	1	-	1
150	Flares	4	4	4	4
151	MEDICATIONS	BLS First Response	BLS Amb	ALS First Response	ALS Amb
152		<i>NOTE: The quantities (mg/gms) listed below only represent the total amount of a medication STOCK. It does NOT represent medication dosages. Refer to Treatment Protocols for medication dosages.</i>			
153	Activated Charcoal (Aqueous suspension)	-	-	50 gms	50 gms
154	Adenosine	-	-	30 mgs	30 mgs
155	Albuterol Unit Dose, 2.5mg/3mL solution	-	-	20 mgs	20 mgs
156	Amiodarone	-	-	600 mgs	600 mgs
157	Aspirin (chewable), 81mg tablet	-	-	1620 mgs (20 tabs)	1620 mgs (20 tabs)
158	Atropine Sulfate, 1mg/10mL preload	-	-	6 mgs	6 mgs
159	Atropine Sulfate, 8mg/20ml multi-dose vial	-	-	8 mgs	8 mgs
160	Calcium Chloride (10%), 1g/10mL	-	-	1 gm	1 gm
161	Dextrose 50%, 25 gm	-	-	75 gms	75 gms
162	Diphenhydramine IV	-	-	100 mgs	100 mgs
163	Dopamine 400mg premixed in 250mL D5W OR equivalent (Note: Supply 250 ml D5W in addition to Dopamine vials if you do not stock premix)	-	-	800 mg	800 mgs
164	Epinephrine 1:1,000, 1mg/1mL	-	-	6 mgs	6 mgs
165	Epinephrine 1:1,000, 1mg/1mL 30mL	-	-	30 mgs	30 mgs
166	Epinephrine 1:10,000, 1mg/10mL	-	-	4 mgs	4 mgs

167	Glucagon	-	-	1 mg	1 mg
168	Glucose Paste (approx 30g/tube)	2 tubes	2 tubes	2 tubes	2 tubes
169	Lidocaine 2% in 5 ml vial (for use w/ intraosseus insertion)			1	1
170	Magnesium Sulfate 50%, 5 g/10 mls	-	-	5 gms	5 gms
171	Midazolam	-	-	15 mgs	15 mgs
172	Morphine Sulfate IV	-	-	20 mgs	20 mgs
173	Naloxone IV	-	-	8 mgs	8 mgs
174	Nitroglycerine, 0.4mg/dose metered spray OR Nitroglycerine, 0.4mg/tablet	-	-	1	1
175		-	-	25 tabs	25 tabs
176	Ondansetron 4mg ODT OR Ondansetron 4mg/ 2 ml vial	-	-	12 mgs	12mgs
177		-	-	12 mgs	12 mgs
178	Sodium Bicarbonate, 50 mEq/50 ml	-	-	100 mEq	100 mEq
179	Sterile Water for Injection, 20 ml vials	-	-	5 vials	5 vials
180	IV SUPPLIES	BLS First Response	BLS Amb	ALS First Response	ALS Amb
181	Normal Saline 0.9% 1000 ml bag	-	-	4	4
182	D5W 100 ml bag	-	-	4	4
183	IV Administration Set 10 or 15 drops/mL (in addition to supply for irrigation)	-	-	4	4
184	IV Administration Set 60 drops/mL	-	-	2	2
185	(Optional) IV Extension Tubing	-	-	2	2
186	IV Catheter (Safety type), 14G	-	-	2	2
187	IV Catheter (Safety type), 16G	-	-	2	2
188	IV Catheter (Safety type), 18G	-	-	2	2
189	IV Catheter (Safety type), 20G	-	-	2	2
190	IV Catheter (Safety type), 22G	-	-	2	2
191	Syringes, 1mL	-	-	2 each	2 each
192	Syringes, 3mL	-	-	2 each	2 each
193	Syringes, 5 or 6mL	-	-	2 each	2 each

194	Syringes, 10 or 12mL	-	-	2 each	2 each
195	Syringes, 30 or 35mL	-	-	2 each	2 each
196	Needles (Safety type), 18G	-	-	2 each	2 each
197	Needles (Safety type), 20G	-	-	2 each	2 each
198	Needles (Safety type), 25G	-	-	2 each	2 each
199	3 way stopcock	-	-	2	2
200	Manual Intra-Osseous needle 16G OR	-	-	1	1
201	EZ-IO Needles, small, medium, & large (or other approve mechanical insertion needles) with EZ-IO Driver (or other approved insertion device)	-	-	1	1
202		-	-	1	1
203	Pressure Bag Infuser	-	-	2	2
204	Alcohol prep pads or swabs	-	-	10	10
205	Provodone Iodine prep pads or swabs	-	-	10	10
206	Blood Glucose Monitor	-	-	1	1
207	Blood Glucose Monitor Test Strips	-	-	10	10
208	Lancets (safety type)	-	-	10	10
209	Mucosal Atomizing Device (MAD)	-	-	1	1
210	Needle Thoracostomy Kit (e.g. Cook Emergency Pneumothorax Set or equivalent)	-	-	1	1
211	MCI KIT	BLS First Response	BLS Amb	ALS First Response	ALS Amb
212	Bag or Case to hold MCI Equipment	-	1	-	1
213	Mylar Blankets (Space Blankets)	-	12	-	12
214	Bullhorn or Battery Powered Megaphone	-	1	-	1
215	Combat Application Tourniquets or approved equivalent*	-	4	-	4
216	Compression Bandage with ties (e.g. Bloodstopper Dressings)	-	7	-	7
217	Cone masks	-	50	-	50
218	Felt tip markers	-	2	-	2
219	Glasses or Goggles	-	2	-	2

220	Heavy Duty Gloves	-	2	-	2
221	Oral Airways, sizes 0, 1, 2, & 3	-	4	-	4
222	Oral Airways, sizes 4, 5, & 6	-	8	-	8
223	Pens	-	3	-	3
224	Pencils (pre-sharpened)	-	6	-	6
225	Pencil Sharpener	-	1	-	1
226	Ruled paper tablet	-	1	-	1
227	Trauma Shears	-	2	-	2
228	Triage Tags	-	50	-	50
229	Vests - Kelly Green or Blue: "EMT-1" or "EMT-P"	-	2	-	2
230	Vests - Orange: "Medical Group Supervisor"	-	1	-	1
231	Vests - Orange: "Medical Supply Officer"	-	1	-	1
232	Vests - Orange: "Staging Officer"	-	1	-	1
233	Vests - Orange: "Transport Officer"	-	1	-	1
234	Vests - Orange: "Treatment Officer"	-	1	-	1
235	Vests - Orange: "Triage Officer"	-	1	-	1
236	Worksheets/Board: Helicopter Operations	-	1	-	1
237	Worksheets/Board: Medical Branch Director	-	1	-	1
238	Worksheets/Board: Medical Group Supervisor	-	1	-	1
239	Worksheets/Board: Transport	-	1	-	1
240	Worksheets/Board: Treatment	-	1	-	1
241	<i>*Acceptable equivalent includes Combat Application Tourniquet, Emergency and Military Tourniquet, or Special Operations Forces Tactical Tourniquet</i>				