

**CONTRA COSTA HEALTH SERVICES
EMERGENCY MEDICAL SERVICES**

AMBULANCE EQUIPMENT AND SUPPLY REQUIREMENTS

I. PURPOSE

The purpose of this policy is to establish minimum equipment requirements and vehicle standards for all in-service and permitted ambulance vehicles operating in Contra Costa County. Permitted ambulance service providers may exceed the equipment requirements and vehicle standards.

II. VEHICLES

All ambulance shall comply with the Contra Costa County Ambulance Ordinance. Each ambulance vehicle shall possess a valid California Highway Patrol Inspection Report and meet the equipment and vehicle requirements established in the California Vehicle Code.

III. EQUIPMENT

All in-service and permitted ambulances operating in Contra Costa County shall have no less than the following equipment:

BLS Ambulance ITEMS	Minimum In-service Requirement
Oropharyngeal airways: 00, 0, 1, 2, 3, 4, 5, 6 (40mm, 50mm, 60mm, 70mm, 80mm, 90mm, 100mm, 110mm)	1 each
Nasopharyngeal airways: 18, 20, 22, 24, 26, 28, 30, 32, 34	1 each
Oxygen mask – adult/pediatric/infant (non-rebreather)	2 each
Nasal cannula – adult/pediatric	2 each
O ₂ tank – fixed in vehicle with regulator (M-tank or equivalent) – minimum 500 PSI	1
Portable O ₂ tank with regulator (sufficient to provide patient with not less than 10 LPM - for 20 minutes)	1
Self inflating resuscitation Bag-Valve device, with clear mask, capable of use with O ₂ : Infant, Pediatric, Adult	1 each
Portable Suction with regulator or Portable suction with adult/pediatric (e.g. high/low) settings – mechanical/hand powered	1
Wide bore tubing for portable suction	1
Pharyngeal tonsil tip (rigid) for suctioning	2
Suction catheters: 6F, 8FR, 10FR, 18FR	1 each
Band-Aids	10
4x4” non-sterile bandage compresses or equivalent	50
4x4” sterile gauze pads	12
3” rolled bandages (Kling, Kerlix, etc)	4
40” triangular bandages	2

10x30" or larger universal dressing	2
1" or 2" adhesive tape	2 rolls
Bandage shears	1
Chest seal (e.g., Asherman, Halo, Sam)	2
Arm splints – with soft or cushioned surface (able to accommodate adult/pediatric/infants)	2
Leg splints – with soft or cushioned surface (able to accommodate adult/pediatric/infants)	2
Traction splints – Adult/Pediatric	1 each
Xray translucent padded spineboard	1
Spineboard Patient Securing System (e.g., long strap, spider strap, etc).	1
Kendrick Extrication Device	1
Head immobilizer – disposable or impervious to bodily fluids	2
Cervical collars – Hard: sizes to fit all patients over one (1) year of age	2 each
<i>Optional: adjustable cervical collar (hard only): sizes to fit all patients over one (1) year of age</i>	2
Scoop stretcher with straps (or equivalent)	1
Blood pressure cuffs with sphygmomanometers (portable): Adult, Large arm, Pediatric, Infant	1 each
Stethoscope: Adult/Pediatric (or combination)	1
Burn sheets (sterile)	1 set
Saline for wound irrigation, sterile	2000cc
Cold packs	6
Thermometer, electronic	1
Combat Tourniquet – approved by COTCCC ¹ (C-A-T® or Sof-T)	1
Obstetrical Kit (sterile, to include minimum of umbilical cord tape or clamps (2), 1 scissors or scalpel, 1 aspirating bulb syringe, 1 pair gloves, 2 drapes, dressings & towels, clean plastic bag)	1
Newborn Stocking Cap	1
Emergency thermal blanket (reflective foil)	2
Ambulance gurney – capability for elevating the head and be adjustable, straps for securing patient to gurney, non-permeable covering material, means of securing gurney in vehicle.	1
Automated External Defibrillator (AED) (BLS units only)	1
AED pads – Adult/Pediatric	1 set each
Triage tags	20

Current map (within 2 years) of entire county or GPS mapping device if associated with vehicle	1
Current Contra Costa EMS Field Manual and policies – printed or electronic version approved on devices associated with vehicle	1
Ankle and wrist restraints (4 per set)	1 set
Ambulance child restraint system for securing children to gurney (e.g., Pedi Mate)	1 set
Battery operated flashlight	1
Emesis basin or disposable emesis bags and covered waste container	1
Linen – towels, sheets, pillow cases, blankets, pillows	2 each
Glucose Paste	1 tube
Pen light	1
Fire Extinguisher (10-BC)	1
Alcohol prep pads	10
Hospital grade bleach wipes	1 container
Bactericidal hand sanitizer (contains PCMX or equivalent ²) – wipes or pump container	1 container/10 wipes
Face shield	2
N95 mask	4
Chest compression metronome – must provide auditory and visual indicator at rate of 100-120. Cardiac monitors and AEDs equipped with metronome are acceptable.	1
Nitrile non-sterile exam gloves – assorted sizes to fit all crew members	1 box each
Hard hat	1 per crew member
Goggles	1 pr per crew member
Leather palmed gloves	1 pr per crew member
County approved radio (to be implemented no later than July 31, 2017)	1

¹Committee on Tactical Combat Casualty Care

²Effective against staphylococcus aureus, escherichia coli, bacillus subtilis, pseudomonas aeruginosa, streptococcus faecalis, salmonella typhimurium, candida albicans, klebsiella pneumoniae

ALS Ambulance Emergency Care Equipment and Supplies: In addition to the BLS ambulance supply/equipment requirements, advanced life support units shall include, but not be limited to, the following:

ALS Ambulance ITEMS	Minimum In-service Requirement
Cellular telephone	1
Monitor/defibrillator (portable) – must have strip chart recorder, 12-lead, synchronized cardioversion, ETCO ₂ monitoring , pulse oximetry monitoring, pacing capability and be compatible with the Lifenet Data Management System. Defibrillator capable of discharging below 25 joules for pediatric use.	1
Vacuum Splint – full or half-body	1
Extra charged batteries for monitor/defibrillator	1
Defibrillator pads: Adult, Pediatric	1 set each
12-lead patches	2 sets
Laryngoscope handle	1
Non-invasive End-Tidal CO ₂ adapter – ETT	1
Pulse oximeter adult & pediatric probes	1 set each
Laryngoscope blades: #0, 1, 2, 3, 4 Miller	1 each
Laryngoscope blades: #2, 3, 4 Macintosh	1 each
Endotracheal tubes: 6.0, 7.0, 8.0, 9.0 cuffed	2 each
Endotracheal tube introducer (e.g. Bougie)	1
Water soluble lubricant – individual packets	3
Magill forceps: Adult, Pediatric	1 each
Batteries (extra) for laryngoscope	1 set
Bulbs (extra) for laryngoscope	1
ETT securing device: Adult	2
Stylet: Adult,	1 each
Pen light	1
End Tidal CO ₂ monitoring equipment - nasal cannula	1
End Tidal CO ₂ monitoring equipment – in-line airway	1
ETT Nebulizer Adapter	2
King Airway Kit Tube – size 3, 4 and 5 Syringe	1

Lubricant	
Hand-held nebulizer for inhalation	2
Nebulizer mask – adult and pediatric	2 each
Pleural Decompression/Needle Thoracostomy kit	2 sets
Continuous Positive Airway Pressure (CPAP) device	1
IO insertion device e.g. EZIO	1
Intraosseous needle – 15mm (pink); 25mm (blue); 45mm (yellow)	2 each
IO-Stabilizer	2
Pressure bag for adult IO	1
Syringes: 1cc, 3cc, 5cc, 10cc, 60cc	2 each
Needles: 18ga, 20ga, 22ga, 24 or 25 ga	2 each
Medication-added labels	2
IV catheters: 16ga, 18ga, 20ga, 22ga, 24ga	4 each
Chlorhexidine wipes (may be included in IV start paks)	20
Elastic tourniquet band	2
Razor	1
Armboard(s) (adaptable for infant, child, adult)	1 each
Normal Saline solution – 500cc or 1000cc bag for adult patients	4 liters
Universal vial adapter/dispensing pin	2
Normal Saline solution – 100ml, 250ml for pediatric patients	2 each
Saline lock with extension tubing	2
IV tubing: mini drip (60gtt), macro drip (10/15gtt) or equivalent (8)	4 ea – mini/macro 8 ea -equiv
IV extension tubing	4
Glucometer (with lancets and test strips)	1
Pedi-Tape®	1
Mucosal Atomizer Device	2
Adenosine	24mg
Albuterol (2.5mg/3ml unit dose ampule)	4
Amiodarone (150mg/3ml ampule)	6
Atropine (1mg preload)	3

Aspirin (81mg tablets)	1 bottle
Diphenhydramine (Benadryl) (50mg/1cc)	2
Calcium Chloride (1 gm)	1
Dextrose 10% (250 ml)	2
Epinephrine 1:10,000 (1mg/10cc)	6
Epinephrine 1:1,000 (1mg/1cc)	2
Glucagon (1mg/1cc)	1
Fentanyl (50 mcg/ml)	200 mcg
Lidocaine 2% for IO pain control	100 mg
Midazolam (Versed) (5mg/ml ampule/vial)	10 mg
Naloxone (Narcan)	4 mg
Nitroglycerin (0.4 mg/tab or multidose spray)	1 bottle
Ondansetron (Zofran)	8 mg IV 8 mg PO
Sodium Bicarbonate (50mEq/50cc)	1