

Chapter: COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES
Key Words: Policy/Procedure/Protocol

SUBJECT: BLS / ALS Ambulance Inventory

POLICY NO: S-103

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DATE: 07/01/2018

AUTHORITY: Health and Safety Code, Division 2.5, Section 1797.204.

I. PURPOSE

To identify a minimum standardized inventory on all Basic Life Support (BLS) and Advanced Life Support (ALS) Transport Units.

II. POLICY

Essential equipment and supplies are required by California Code of Regulations, Title 13, Section 1103.2(a)1-2 (for vehicle requirements, refer to County of San Diego, Emergency Medical Services (CoSD EMS) Policy B-833 “Ground Ambulance Vehicle Requirements”). Each BLS or ALS Transporting Unit in San Diego County shall carry, at a minimum, the following:

BLS Requirements	Minimum Requirements
Ambulance cot and collapsible stretcher	1 each
Straps to secure the patient to the cot or stretcher	1 set
Ankle and wrist restraints	1 set
Linens (sheets, pillow, pillow case, blanket, towels)	2 sets
Personal protective equipment (masks, gloves, gowns, shields)	2 sets
Oropharyngeal Airways	-
• Adult	2
• <i>Pediatric</i>	2
• <i>Infant</i>	1
• <i>Neonate</i>	1
Pneumatic or rigid splints	4
Bag-valve-mask w/reservoir and clear resuscitation mask	-
• Adult	1
• <i>Pediatric</i>	1
• <i>Infant</i>	1
• <i>Neonate mask</i>	1
Oxygen cylinder w/wall outlet (H or M)	1
Oxygen tubing	1

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BLS Requirements (cont.)	Minimum Requirements
Oxygen cylinder – portable (D or E)	2
Oxygen administration mask	-
• Adult	4
• Pediatric	2
• Infant	1
Nasal cannulas (Adult)	4
Nasal airways (assorted sizes)	1 set
Nebulizer for use w/sterile H ₂ O or saline	2
Glucose paste/tablets	1 15 g tube OR 3 tabs
Bandaging supplies	-
• 4" sterile bandage compresses	12
• 3x3 gauze pads	4
• 2", 3", 4", or 6" roller bandages	6
• 1", 2", or 3" adhesive tape rolls	2
• Bandage shears	1
• 10"x30" or larger universal dressing	2
Emesis basin (or disposable bags)	1
Covered waste container	1
Portable suction equipment (30 L/min, 300 mmHg)	1
Suction device – fixed (30 L/min, 300 mmHg)	1
Suction catheter – tonsil tip	3
Suction catheter (8, 12, 18)	1
Spinal Immobilization Devices w/straps	1
Head Immobilization Device	2
Cervical collars – rigid	-
• Adult	3
• Pediatric	2
• Infant	2
Thermometer	1
Traction splint*	-
• Adult or equivalent	1
• Pediatric or equivalent	1
Tourniquet (County approved type)	2
Blood pressure manometer and cuff	-
• Adult	1
• Pediatric	1
• Infant	1

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BLS Requirements (cont.)	Minimum Requirements
Obstetrical supplies to include:	1 kit
<ul style="list-style-type: none"> • Sterile gloves, umbilical tape or clamps, dressings, head coverings, ID bands, towels, bulb syringe, sterile scissors or scalpel, clean plastic bags 	-
Potable water (1 gallon) or saline (2 liters)	1
Bedpan	1
Urinal	1
Disposable gloves – non-sterile	1 box
Disposable gloves – sterile	4 pairs
Cold packs	2
Warming packs (not to exceed 110 degrees F)	2
Sharps container (OSHA approved)	1
Agency radio	1
EMS radio	1
Metronome (or equivalent device)	1
<u>Optional items:</u>	
<ul style="list-style-type: none"> • Blood Glucose Monitoring Device & supplies - required July 1, 2019 • Epinephrine auto-injector adult 0.3mg- required July 1, 2019 • Epinephrine auto-injector pediatric 0.15mg- required July 1, 2019 • Naloxone intranasal- required July 1, 2019 • Automated external defibrillator- required July 1, 2019 • Chest seals • Hemostatic gauze • Oxygen Saturation Monitoring Device <ul style="list-style-type: none"> ○ Adult probe ○ <i>Pediatric/Infant</i> • Positive Pressure Breathing Valve, maximum flow 40 Liters/min. • Mark 1 kit(s) or equivalent 	

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ALS Requirements:

All supplies and equipment in BLS Requirements in addition to the following:

A. Airway Adjuncts	Minimum Requirements
Capnograph (Quantitative End Tidal CO ₂)	1
CPAP (Continuous Positive Airway Pressure) equipment	1
Endotracheal tubes	-
• 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0 (cuffed)	1 each
Esophageal Tracheal Double Luman Airway (kit)	-
• Combitube: Small Adult	1
OR	-
Laryngeal/Tracheal Airway (King Airway: sizes 3, 4, 5)	1 each
ET adapter (nebulizer)	1 setup
Laryngoscope – handle	2
Laryngoscope – blade	-
• <i>Straight sizes 0-4</i>	1 each
• <i>Curved sizes 2-4</i>	1 each
Magill tonsil forceps – small and large	1 each
Stylet – 6 and 14 French, Adult	1 each

A. Vascular Access/Monitoring Equipment	Minimum Requirements
Blood Glucose Monitoring Device & supplies	1
IV administration sets	-
• Macro drip (2 must be vented)	4
• Micro drip or	2
• Multi-drip chambers	6
IV tourniquets	4
Needles:	-
• IV cannula – 14 gauge	8
• IV cannula – 16 gauge	8
• IV cannula – 18 gauge	8
• IV cannula – 20 gauge	6
• <i>IV cannula – 22 gauge</i>	4
• <i>IV cannula – 24 gauge</i>	4
• IM – 21 gauge x 1”	6
• Filter needles	2
• Angiocath for needle decompression – 14 gauge, 3.25 inches	2
• IO – jamshidi-type (or approved device) needle – 18 gauge	2

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Vascular Access/Monitoring Equipment (cont)	Minimum Requirements
• IO – jamshidi-type (or approved device) needle – 15 gauge	2
OR	-
• IO power driver w/appropriate IO needles:	-
o 15 mm (3-39 kg)	2
o 25 mm (40 kg and greater)	2
Syringes: 1 ml, 3 ml, 10 ml, 20 ml	3 each

B. Monitoring	Minimum Requirements
Capnography cannula	2
Defibrillator pads	1 adult, 1 pediatric
Electrodes	1 box
Electrode wires	1 set
Monitor/defibrillator w/12 lead EKG and pacing capability	1
Oxygen Saturation Monitoring Device	1
• Adult probe	1
• Pediatric/Infant	1

C. Other Equipment	Minimum Requirements
<i>Length Based Resuscitation Tape (LBRT)</i>	1
Mucosal Atomizer Device (MAD)	2
Metronome (or equivalent device)	1
Nasogastric Intubation Setup (10 or 12, 18 French)	1 each
Large 60cc syringe for nasogastric tube confirmation and placement	1 each
Thermometer	1
Water soluble lubricant	1

D. Laminated Items	Minimum Requirements
<i>Pediatric Drug Chart (Policy P-117 "ALS Pediatric Drug Chart")</i>	1
Standing Orders Protocol (laminated)	1

E. Replaceable Medications	Minimum Requirements
Acetaminophen IV 1000 mg/ 100 ml (requires vented tubing)	2000 mg
Adenosine – 6 mg/2 ml	30 mg total
Albuterol – 2.5 mg/3 ml or 0.083%	6 vials
ASA, chewable – 80 mg each	6 units
Atropine Sulfate – 1 mg/10 ml	2
Atropine Sulfate – multi-dose 0.4 mg/ml	1

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Replaceable Medications (cont)	Minimum Requirements
Atrovent – 2.5 ml (1 unit dose)	2
Calcium Chloride – 1 GM/10 ml	1
Charcoal activated (no sorbitol) – 50 GM	1
Dextrose, 50% - 25 GM/50 ml	2
Dextrose, 10% - 25 GM/250 ml	2
Diphenhydramine HCL (Benadryl) – 50 mg/1 ml	2
Dopamine HCL – 400 mg	1
• OR Premixed Dopamine 400 mg/250 ml in D5W	1
Epinephrine – 1:1,000 (1 mg/1 ml ampule)	6
Epinephrine – 1:10,000 (1 mg/10 ml)	6
Glucagon – 1 ml (1 unit)	1
Lidocaine HCL (preservative free) – 100 mg/5 ml (2%)	4
Midazolam (Versed) – 5 mg/1 ml	20 mg total
Morphine Sulfate (injectable) 10 mg/ 1 ml	20 mg total
OR (units may carry morphine <u>or</u> fentanyl, but <u>not</u> both)	
Fentanyl Citrate 50 mcg/ 1ml	200 mcg total
Naloxone HCL (Narcan) – 1 mg/1 ml	6 mg total
Nitroglycerin – 0.4 mg	1 container
Nitroglycerin topical preparation – 2%	1 tube
Ondansetron (Zofran) – 4 mg/2 ml	2
Ondansetron (Zofran) PO/ODT – 4 mg	4
Sodium Bicarbonate – 50 mEq/50 ml	3
IV Solutions:	
• Normal Saline – 1000 ml bag	4
• Normal Saline – 250 ml bag	2
• Normal Saline 50 ml bag or 100 ml bag	2
F. Optional Items	
Amiodarone 150 mg/3 ml	
- With normal saline 100 mL bag	
Armboard – long	
Armboard – short	
Bougie- required July 1, 2019	
Carboxyhemoglobin monitor	

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Optional Items (Cont)
Cardiac compression device
Chest seals
<i>Colorimetric carbon dioxide detector (if capnography not equipped to read EtCO₂ in patients weighing <15kgs)</i>
Curved laryngoscope blades – size 0, 1
Dopamine (premixed) 400 mg in 250 ml D5W
Hemostatic gauze
IO power drive needle 45 mm (40kg and greater w/excessive tissue)
IV extension tubing
Lidocaine 2% jelly – 5 ml tube
Mesh hood (spit sock or similar) – light color only (beige/white)
Saline lock
Three-way stopcock w/extension tubing
Valium Auto-injector (MMST only)
Video Laryngoscope

Note: Pediatric required supplies denoted by italics

*One splint may be used for both adult and pediatric (e.g., Sager Splint)