

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

**SUBJECT:** BLS / ALS Ambulance Inventory

**NO:** S-103

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**DATE** 07/01/2021

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

**I. PURPOSE**

To identify a 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”). Any equipment or supplies carried for use in providing emergency medical care must be maintained in good working order. Each BLS or ALS Transporting Unit in San Diego County shall carry, at a minimum, the following:

<b>BLS Requirements</b>	<b>Minimum Requirements</b>
Automated External Defibrillator (Automated External Defibrillator not required for ALS)	1
Ambulance cot and collapsible stretcher – clean, mattress intact, and in good working order	1 each
Straps to secure the patient to the cot or stretcher	1 set
Ankle and wrist restraints	1 set
Linens (sheets, pillow, pillowcase, blanket, towels)	2 sets
Personal protective equipment (masks, gloves, gowns, shields)	2 sets
Oropharyngeal airways	-
• Adult	2
• Pediatric 0-5	1 each
• Neonate	1
• Premature	1
Pneumatic or rigid splints	4
Bag-valve-mask w/reservoir and clear resuscitation mask	-
• Adult	1

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• Pediatric	1
• Neonate	1
• Premature	1
Oxygen cylinder w/wall outlet (H or M)	1
Oxygen tubing	1
Oxygen cylinder – portable (D or E)	2
Oxygen administration mask	-
• Adult	4
• <i>Pediatric</i>	2
• <i>Infant</i>	1
Nasal cannulas (Adult)	4
Nasal airways (assorted sizes)	1 set
Nebulizer for use w/sterile H <sub>2</sub> O or saline	2
Blood glucose monitoring device & supplies	1
Glucose paste/tablets	1 15 gm tube <b>OR</b> 3 tabs
Naloxone intranasal	1
Epinephrine auto-injector adult 0.3 mg (Auto-injector not required for ALS)	1
Epinephrine auto-injector pediatric 0.15 mg (Auto-injector not required for ALS)	1
Bandaging supplies	-
• 4-inch sterile bandage compresses	12
• 3x3 gauze pads	4
• 2-, 3-, 4-, or 6-inch roller bandages	6
• 1-, 2-, or 3-inch adhesive tape rolls	2
• Bandage shears	1
• 10-inch x30-inch <b>or</b> larger universal dressing	2
Emesis basin ( <b>or</b> 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
Pediatric suction catheter (5, 6, 10)	1 each
Adult suction catheter (8, 12, 18)	1 each
Spinal immobilization devices w/straps	1
Head immobilization device	2
Cervical collars – rigid	-
• Adult	3
• <i>Pediatric (small, medium, large)</i>	2 each

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• <i>Infant</i>	2
Thermometer	1
Traction splint*	-
• Adult <b>or</b> equivalent	1
• <i>Pediatric or equivalent</i>	1
Tourniquet (County-approved type)	2
Blood pressure manometer and cuff	-
• Adult	1
• <i>Pediatric</i>	1
• <i>Infant</i>	1
Stethoscope	1
Obstetrical supplies to include:	1 kit
• Sterile gloves, umbilical tape <b>or</b> clamps, dressings, head coverings, ID bands, towels, bulb syringe, sterile scissors <b>or</b> scalpel, clean plastic bags	-
Potable water (1 gallon) <b>or</b> 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) <b>or</b> Warming device with blanket	2
Sharps container (OSHA approved)	1
Agency radio	1
EMS radio	1
Metronome ( <b>or audible</b> equivalent device)	1
<b>Optional items:</b>	
• Cardiac compression device	
• Chest seals	
• Hemostatic gauze	
• Oxygen saturation monitoring device	
o Adult probe	
o <i>Pediatric/Infant</i>	
• Positive pressure breathing valve, maximum flow 40 L/min	
• Mark 1 kit(s) <b>or</b> equivalent	

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

<b>A. Airway Adjuncts</b>	<b>Minimum Requirements</b>
Quantitative end tidal CO <sub>2</sub> monitor	1
<i>Pediatric end tidal CO<sub>2</sub> detection device (if capnography not equipped to read EtCO<sub>2</sub> in patients weighing &lt;15kgs)</i>	2
CPAP equipment	1
Endotracheal tubes	-
<ul style="list-style-type: none"> <li>5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0 (cuffed)</li> </ul>	1 each
Esophageal tracheal double lumen airway (kit)	-
<ul style="list-style-type: none"> <li>Combitube: Small adult</li> </ul>	1
<b>OR</b>	-
Laryngeal/tracheal airway (King Airway: sizes 3, 4, 5)	1 each
ET adapter (nebulizer)	1 setup
Laryngoscope – handle	2
Laryngoscope – blade	-
<ul style="list-style-type: none"> <li>Straight sizes 0-4</li> </ul>	1 each
<ul style="list-style-type: none"> <li>Curved sizes 2-4</li> </ul>	1 each
Magill tonsil forceps – small and large	1 each
Stylet – 6 and 14 french, Adult	1 each
Bougie	1 each
HEPA/viral filter (for BVM, CPAP, nebulizer)	6

<b>B. Vascular Access/Monitoring Equipment</b>	<b>Minimum Requirements</b>
IV administration sets	-
<ul style="list-style-type: none"> <li>Macro drip (2 must be vented)</li> </ul>	4
<ul style="list-style-type: none"> <li>Micro drip <b>or</b></li> </ul>	2
<ul style="list-style-type: none"> <li>Multi-drip chambers</li> </ul>	6
IV tourniquets	4
Needles:	-
<ul style="list-style-type: none"> <li>IV cannula – 14 gauge</li> </ul>	8
<ul style="list-style-type: none"> <li>IV cannula – 16 gauge</li> </ul>	8
<ul style="list-style-type: none"> <li>IV cannula – 18 gauge</li> </ul>	8
<ul style="list-style-type: none"> <li>IV cannula – 20 gauge</li> </ul>	6
<ul style="list-style-type: none"> <li>IV cannula – 22 gauge</li> </ul>	4
<ul style="list-style-type: none"> <li>IV cannula – 24 gauge</li> </ul>	4

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• IM – 21 gauge x 1 inch	6
• Filter needles	2
• Angiocath for needle decompression- 14 gauge, 3.25 inches	2
• IO – jamshidi-type (or approved device) needle -18 gauge	2
• IO – jamshidi-type (or approved device) needle – 15 gauge	2
<b>OR</b>	-
• 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>C. Monitoring</b>	<b>Minimum Requirements</b>
Capnography cannula	2
Defibrillator pads	1 adult, 1 pediatric
Electrodes	1 box
Electrode cables	1 set
Monitor/defibrillator w/12 lead EKG and pacing capability	1
Oxygen saturation monitoring device	1
• Adult probe	1
• Pediatric/Infant probe	1

<b>D. Other Equipment</b>	<b>Minimum Requirements</b>
<i>Length Based Resuscitation Tape (LBRT)</i>	1
Mucosal Atomizer Device (MAD)	2
Metronome (or equivalent device)	1
Nasogastric intubation setup (8, 10 or 12, 18 french)	1 each
60mL syringe for nasogastric tube confirmation and placement	1
Thermometer	1
Water soluble lubricant	1

<b>E. Laminated Items</b>	<b>Minimum Requirements</b>
<i>Pediatric Drug Chart (Policy P-117 "ALS Pediatric Drug Chart")</i>	1

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F. Replaceable Medications	Minimum Requirements
Acetaminophen IV 1000 mg/100 mL (requires vented tubing)	2000 mg
Adenosine – 6 mg/2 mL <b>and</b> 12mg/4mL	30 mg total
Albuterol – 2.5 mg/3 mL <b>or</b> 0.083%	6 vials
Amiodarone 150 mg/3 mL - With normal saline 100 mL bag	2 vials
ASA, chewable – 81 mg each	6 units
Atropine sulfate – 1 mg/10 mL	2
Atropine sulfate – 8 mg/20 mL (0.4 mg/mL)	1
Calcium chloride – 1 gm/10 mL	1
Charcoal, activated (no sorbitol) – 50gm	1
Dextrose, 50% – 25 gm/50 mL	2
Dextrose, 10% – 25 gm/250 mL	2
Diphenhydramine hydrochloride – 50 mg/1 mL	2
Epinephrine 1:1,000 – 1 mg/1 mL ampule	6
Epinephrine 1:10,000 – 1 mg/10 mL	6
Glucagon – 1 unit (mg)/1 mL	1
Ipratropium bromide – 0.5mg/2.5 mL	2
Ketamine – 500 mg/10 mL (50 mg/mL)	1
Lidocaine hydrochloride (preservative-free) – 100 mg/5 mL (2%)	4
Midazolam – 5 mg/1 mL	20 mg total
Morphine sulfate (injectable) – 10 mg/1 mL <b>OR</b> (units may carry morphine <u>or</u> fentanyl, but <u>not</u> both)	20 mg total
Fentanyl citrate – 100mg/2mL	200 mcg total
Naloxone hydrochloride – 2 mg/2 mL	6 mg total
Nitroglycerin – 0.4 mg	1 container
Ondansetron (injectable) – 4 mg/2 mL	2
Ondansetron (PO/ODT) – 4 mg	4
Sodium bicarbonate – 50 mEq/50 mL	3
<b>IV Solutions:</b>	
• Normal Saline – 1000 mL bag	4
• Normal Saline – 250 mL bag	2
• Normal Saline – 50 mL bag <b>or</b> 100 mL bag	2

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<b>G. Optional Items</b>
Albuterol MDI
Armboard – long
Armboard – short
Carboxyhemoglobin monitor
Chest seals
<i>Colorimetric carbon dioxide detector (if capnography not equipped to read EtCO<sub>2</sub> in patients weighing &lt;15kgs)</i>
Curved laryngoscope blades – size 0, 1
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 <b>or</b> similar) – light color only (beige/white)
Leave Behind Naloxone kit(s)
Saline lock
Three-way stopcock w/extension tubing
Video laryngoscope

Note: Pediatric required supplies denoted by italics

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