

 COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES	INVENTORY / MEDICATION LISTS AND CHARTS / SKILLS LIST		S-103
	BLS/ALS AMBULANCE INVENTORY		
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I. PURPOSE

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

II. AUTHORITY

Health and Safety Code, Division 2.5, Section 1797.204.

III. POLICY/PROCEDURE

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 the following:

BLS Requirements	Minimum Requirements
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
• 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

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• <i>Pediatric</i>	2
• <i>Infant</i>	1
Nasal cannulas (Adult)	4
Nasal airways (assorted sizes)	1 set
Nebulizer for use w/sterile H ₂ O or saline	2
Blood glucose monitoring device & supplies	1
Glucose paste/tablets	1 15 gm tube OR 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 or larger universal dressing	2
• Hemostatic gauze ¹	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
<i>Pediatric suction catheter (5, 6, 10)</i>	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
• <i>Infant</i>	2
Thermometer	1
Traction splint*	-
• Adult or equivalent	1
• <i>Pediatric or equivalent</i>	1
Tourniquet (County-approved type ²)	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 or clamps, dressings, head coverings,	-

¹ The active hemostatic agent must be incorporated into the gauze (loose granules or granules delivered in an applicator, or particles sprinkled into the wound, are not authorized). The active hemostatic agent must not be exothermic (heat producing) upon contact with the wound.

² San Diego County EMS Office approves the [Committee for Tactical Combat Casualty Care \(CoTCCC\) list of recommended tourniquets \(limb non-pneumatic/limb pneumatic\)](#).

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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) or warming device with blanket	2
Sharps container (OSHA approved)	1
Agency radio	1
EMS radio	1
Metronome (or audible equivalent device for chest compressions)	1
Optional items³:	
• Burn sheets	
• Automated cardiac compression device	
• Chest seals	
• Oxygen saturation monitoring device	
○ Adult probe	
○ <i>Pediatric/Infant</i>	
• Mark 1 kit(s) or equivalent	

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

A. Airway Adjuncts	Minimum Requirements
Quantitative end tidal CO ₂ monitor	1
<i>Pediatric end tidal CO₂ detection device (if capnography not equipped to read EtCO₂ in patients weighing <15kgs)</i>	2
CPAP equipment	1
Endotracheal tubes	-
• 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0 (cuffed)	1 each
Supraglottic airway (i-gel: sizes 3, 4, 5)	1 each
OR	-
Retroglottic 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

³ Any patient care inventory not listed in this protocol must have LEMSA approval prior to use. Agencies must validate training, education, and QA reporting processes for all approved optional inventory items.

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Bougie	1 each
HEPA/viral filter (for BVM, CPAP, nebulizer)	6
Positive end-expiratory pressure (PEEP) valve	1

B. Vascular Access/Monitoring Equipment	Minimum Requirements
IV administration sets	-
• Macro drip (2 must be vented if using acetaminophen vials)	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 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
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
C. Monitoring	Minimum Requirements
Capnography cannula	2
Defibrillator pads	1 adult, 1 <i>pediatric</i>
Electrodes	1 box
Electrode cables	1 set
Monitor/defibrillator w/12-lead ECG and pacing capability	1
Oxygen saturation monitoring device	1
• Adult probe	1
• <i>Pediatric/Infant probe</i>	1
D. Other Equipment	Minimum Requirements
Automated cardiac compression device	1
<i>Length Based Resuscitation Tape (LBRT)</i>	1
Mucosal Atomizer Device (MAD)	2
Metronome (or equivalent device)	1
Nasogastric tubes (8, 10, 12, 14, 18)	1 each
60mL syringe for nasogastric tube confirmation and placement	1
Water soluble lubricant	1

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E. Laminated Items	Minimum Requirements
<i>Pediatric Drug Chart (Policy P-117 "ALS Pediatric Drug Chart")</i>	1
F. Replaceable Medications	Minimum Requirements
Acetaminophen IV 1,000 mg/100 mL (vials require vented tubing)	2000 mg
Adenosine – 6 mg/2 mL and 12 mg/4 mL	30 mg total
Albuterol – 2.5 mg/3 mL or 0.083%	6 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) – 50 gm	1
Dextrose, 10% – 25 gm/250 mL	4
Diphenhydramine hydrochloride – 50 mg/1 mL	2
Epinephrine 1:1,000 – 1 mg/1 mL	6
Epinephrine 1:10,000 – 1 mg/10 mL	6
Glucagon – 1 unit (mg)/1 mL	1
Ipratropium bromide – 0.5 mg/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	20 mg total
OR (units may carry morphine <u>or</u> fentanyl, but <u>not</u> both)	
Fentanyl citrate – 100 mcg/2 mL	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
Tranexamic acid – 1 gm/10 mL	1
<u>IV Solutions:</u>	
• Normal Saline – 1,000 mL bag	4
• Normal Saline – 250 mL bag	2
• Normal Saline – 50 mL bag or 100 mL bag	2
G. Optional Items⁴	
Albuterol MDI	
Amiodarone – 150 mg/3 mL with 100 mL normal saline bag	
Armboard – long	
Armboard – short	
Buprenorphine-naloxone (Suboxone®) (for agencies participating in the buprenorphine LOSOP)	
Carboxyhemoglobin monitor	
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	
Dextrose, 50% – 25 gm/50 mL	

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IO power drive needle 45 mm (40kg and greater w/excessive tissue)
IV extension tubing
Levalbuterol – 1.25 mg/3 mL (adults and pediatrics ≥12 years) and 0.31 mg/3 mL (<i>pediatrics ≥6 and <12 years</i>)
Lidocaine 2% jelly – 5 mL tube
Mesh hood (spit sock or similar) – light color only (beige/white)
Leave Behind Naloxone kit(s)
Ringer's lactate solution ⁵
Saline lock
Three-way stopcock w/extension tubing
Video laryngoscope (recording capabilities preferred)

Note: Pediatric required supplies denoted by italics

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

⁵ With the exception of amiodarone and ketamine, medications listed in P-401 may be infused with Ringer's lactate solution during periods when normal saline fluid is in shortage. This substitution shall be on a one-for-one basis, i.e., a protocol treatment of 250 mL normal saline fluid bolus may be replaced with a 250 mL Ringer's lactate fluid bolus.