



ADVANCED LIFE SUPPORT (ALS) PROVIDER UNIT MINIMUM INVENTORY

- I. AUTHORITY: California Health and Safety Code, Division 2.5, §1797.200. California Code, Title 22, Division 9, §100096.01.

II. APPLICATION:

This policy describes the standard minimum drug and equipment inventory for an Advanced Life Support (ALS) unit in Orange County.

Title 8 CCR Section 5193, Bloodborne Pathogens, requires sharps injury prevention/needleless products to be utilized when appropriate.

All equipment and supplies must be latex free.

III. DEFINITIONS:

“Optional” means equipment, supplies, or pharmaceuticals that are not required in the minimum inventory, but which ALS providers are authorized to include in unit inventories.

“or” means either equipment, supply, or pharmaceutical is appropriate and effective. It does not imply that both must be stocked in inventory, rather either or both can be stocked.

IV. CRITERIA:

The number or amount of each item listed is at the discretion of the ALS provider based on a specific unit's needs for its service area. Equipment, supplies, and drug inventory that is not part of the authorized Orange County ALS Scope of Practice is not permitted without formal approval of the California EMS Authority upon request of the Orange County EMS Agency. Inventory for special ALS units (tactical, fire line, search and rescue) are defined in other OCEMS policies.

V. EQUIPMENT:

Mandatory Equipment	Description
BAG-VALVE DEVICE WITH OXYGEN INLET AND RESERVOIR	• Adult and Pediatric
BANDAGE SCISSORS	
BACKBOARD	• Adult, X-ray transparent. • Minimum of three straps.
AUTOMATIC CHEST COMPRESSION DEVICE (Refer to Note #1 and #2 below)	• U.S. Food and Drug Administration approved with continuous hands-free chest compression, portable, and battery driven. • Compression constriction band design or chest encircling band plunger design. • Pass through defibrillator capable or design that allows for cardiac defibrillation with device in place.

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CONTINUOUS POSITIVE AIRWAY PRESSURE DEVICE	<ul style="list-style-type: none">• Adult and Pediatric.
LARYNGOSCOPE	<ul style="list-style-type: none">• Blades: Adult - curved/straight #3 and #4 recommended• Blades: Pediatric - straight #1 and #2 (for direct laryngoscopy foreign body removal)
MAGILL FORCEPS	<ul style="list-style-type: none">• Adult and Pediatric• Closed tip
MONITOR / DEFIBRILLATOR	<ul style="list-style-type: none">• Biphasic, adjustable output, defibrillator with oscilloscope (FDA approved)• Defibrillator-pacer pads with functional cables and connectors• ECG pads with functional cables and connectors• Synchronizer: designed to deliver a synchronized defibrillating pulse, timed to avoid the T-wave of the cardiac cycle.• 12-lead ECG capability with internal interpretation protocol to identify an acute myocardial infarction and ability for transmission to CVRC.• Transcutaneous pacing module.• End-tidal CO₂ monitor with either single or continuous waveform reading output.• Recorder: Must be able to produce a paper print out of high quality.• Batteries/Charge Units as Main Power Source.
SPHYGMOMANOMETER	<ul style="list-style-type: none">• Assorted cuff sizes, including adult and pediatric.
STETHOSCOPE	<ul style="list-style-type: none">• Disposable or non-disposable diaphragm type.
SUCTION UNIT	<ul style="list-style-type: none">• Portable, with disposable canister.
TOURNIQUET	<ul style="list-style-type: none">• Manufactured, hemostatic, FDA and California EMS Authority approved.
TRACTION SPLINTS	<ul style="list-style-type: none">• Lightweight, portable: adult, pediatric (BARRIER PROTECTION ACCEPTABLE).
Note #1	Automatic Chest Compression Device: Deployed as determined by ALS provider to be immediately available to maintain continuation of CPR when patient is physically moved and chest compression by hand will be interrupted [such as

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	loading onto gurney (stretcher) or during transport and off-loading].
Note #2	Automatic Chest Compression Device: This equipment can be optional for surge or backup response units but remains required for all front-line ALS primary units.

Optional Approved Equipment	Description
AUTOMATIC TRANSPORT VENTILATOR	<ul style="list-style-type: none">• Pressure or volume cycled with adjustable tidal volume and rate, audible and visible alarms and alerts with digital monitor screen.• Battery powered (note pressure cycled from oxygen cylinder).• Must be FDA approved.
BREAKAWAY FLAT	<ul style="list-style-type: none">• Vertically stable for full spinal immobilization.
BACKBOARDS	<ul style="list-style-type: none">• Pediatric.
EXTRICATION SPLINT	<ul style="list-style-type: none">• Horizontal flexible, vertical rigidity.• Stabilizes head, neck and back.
END-TIDAL CO2 NASAL / BVM	<ul style="list-style-type: none">• End-tidal CO2 nasal cannula and adapter for BVM.
RESUSCITATOR	<ul style="list-style-type: none">• 40 L/min maximum delivery capability.• Portable.• Lightweight.• Minimum 6' length hose to head.• Constant flow valve 0-15 L/min demand valve head.
SLIDING (TRANSFER) FLAT	<ul style="list-style-type: none">• Required for IFT-ALS units.
INFUSION PUMP	<ul style="list-style-type: none">• Adjustable rate for Intravenous medication delivery at volume (milliliters) per minute or hour.• Battery operated with digital delivery readout and visual/ audible malfunction alarms.• Must be FDA approved.• Required for IFT- ALS units.
VIDEO LARYNGOSCOPE	<ul style="list-style-type: none">• Battery powered portable.• Internal memory card optional.



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VI. SUPPLIES:

MANDATORY SUPPLIES

- Airway adapters: standard 15mm ID X 22mm OD both ends
- Airway, nasopharyngeal: 4.5mm - 9.0mm or adult and pediatric sizes
- Airway, oral: Adult and pediatric sizes
- Alcohol wipes
- Arm board: short, with rigid insert, padded (BARRIER PROTECTION ACCEPTABLE)
- Arm board: long, with rigid insert, padded (BARRIER PROTECTION ACCEPTABLE)
- Atomizer for nasal administration of medications
- Bags (for trash)
- Basin, emesis (BARRIER PROTECTION ACCEPTABLE)
- Blanket, disposable
- Burn dressing: Clean sheet or commercial burn covering sheet
- Cannulas, nasal oxygen: Adult and pediatric
- Catheter, suction: sizes #6, #10, #14
- Cold packs, chemical (BARRIER PROTECTION ACCEPTABLE)
- Combitubes® or equivalent: Regular and Small Adult
- AND/OR
- King® Airway or equivalent: Sizes 4, 5 (size 3 optional)
- AND/OR
- Supraglottic Airway (Laryngeal Mask Airway): Sizes 4, 5 (size 3 optional)
- Dressings: Kerlix or equivalent; Gauze 4 in. x 4 in. / 2 in. x 2 in.; OP Site or equivalent, approx. 2" x 3" (for IV sites)
- ET tubes: soft cuff, assorted adult sizes with stylets
- Flexible intubation guide
- Gloves: Assorted sizes, including clean and sterile packaged
- Glucometer with non-expired test strips and lancets
- Intraosseous (IO) needles with or without introducer device
- IV catheters, over needle type: assorted sizes and saline lock chambers (fittings)
- IV tubing: Macro drip, with flow rate regulator and two medication injection sites and a "Y" adapter.
- Masks, disposable ventilation: sizes Neonate, infant, and child
- Mask, oxygen non-rebreather: adult and pediatric
- Nebulizer, Acorn type, with mouthpiece and mask attachments
- Needle-ARS type for chest decompression OR Needle chest decompression kit
- Needles for IM injection, assorted sizes
- Needle (sharps) disposal unit
- OB kit with bulb syringe
- Pediatric length-based resuscitation tape
- Personal protective equipment (OSHA compliant masks, gowns, gloves, eye shields)
- Pulse oximetry device, may be incorporated within defibrillator
- Razors, disposable

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- Restraints: Soft
- Solution, sterile; NS 1000 ml (for irrigation)
- Suction, tonsil tip; semi rigid or rigid, large bore (Yank Auer suction tip)
- Syringes, assorted sizes
- Tape (paper, plastic hypoallergenic): assorted sizes and types
- Tourniquets, for facilitating IV placement
- Petroleum (such as Vaseline®) gauze
- Under pads (such as CHUX®)/protective pads)

OPTIONAL APPROVED SUPPLIES:

- Band-Aids
- CO2 detector – End tidal CO2 detector attachable to endotracheal tube (colorimetric)
- Dressings: abdominal gauze; eye pads; hemostatic gauze
- ET tube holders
- Impedence Threshold Device
- Infant Transport Mattress, heated, consistent temperature not to exceed 42 degrees centigrade
- IV tubing: Micro drip, 60 drops/mL
- One-way “flutter” valve
- Penlight/flashlight
- Restraints: Hard restraints padded and quick release per Policy 330.57.
- Thermometer: temporal, otic, or oral; electronic with disposable patient contact probes
- Tubing, oxygen connecting

VII. PHARMACEUTICAL INVENTORY:

Mandatory Pharmaceutical	Form / Preparation
Adenosine	<ul style="list-style-type: none">• 12 mg / 4 mL vial or prefilled syringe• 6 mg / 2 mL vial or prefilled syringe
Albeterol (for nebulizer inhalation)	<ul style="list-style-type: none">• 3.0 mL (2.5 mg) of a 0.083% solution
Amiodarone	<ul style="list-style-type: none">• 50 mg / mL vial or prefilled syringe
Aspirin, chewable	<ul style="list-style-type: none">• 81 mg tablet individually packaged• 325 mg tablet individually packaged
Atropine	<ul style="list-style-type: none">• 1 mg ampule, vial or prefilled syringe
Calcium Gluconate	<ul style="list-style-type: none">• 100 mg / mL in a 10 mL vial
Dexrose 10%	<ul style="list-style-type: none">• 250 mL IV bag of a 10% solution
Diphenhydramine (Benadryl™)	<ul style="list-style-type: none">• 50 mg / mL, 1 mL single dose vial or carpuject
Epinephrine 0.1 mg / mL	<ul style="list-style-type: none">• 1 mg / 10 mL prefilled syringe
Epinephrine 1.0 mg / mL	<ul style="list-style-type: none">• 1 mg / 1 mL ampule• 1 mg / 1 mL vial• 30 mL vial
Glucose, oral solutions	<ul style="list-style-type: none">• Various formulations

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Glucagon	• 1 mg ampule with diluent
Ketoralac	• 15 mg / 1 mL vial
Lidocaine 2% solution	• 100 mg / 5 mL prefilled syringe
Magnesium Sulfate (cardiac arrest)	• 500 mg / 1 mL vial
Magnesium Sulfate (eclampsia/pre-eclampsia)	• 4 gm 4% solution in 100 mL NS • 10 gm 50% solution in 20 mL NS
Midazolam	• 5 mg / 1 mL vial or carpject • 10 mg / 2 mL vial
Morphine Sulfate (may carry or replaced with optional Fentanyl)	• 10 mg / 10 mL prefilled syringe • 4 mg / 1 mL carpject • 10 mg / 1 mL vial
Naloxone (Narcan®)	• Various IV / IM formulations ampules, vials, prefilled syringe, or carpjects or 4 mg / 0.1 mL preloaded nasal spray
Nitroglycerin	• 0.4 mg / metered dose spray • 0.4 mg tablets • 0.4 mg powder (single dose packets)
Normal Saline for nebulized inhalation	• 10 mL prefilled syringe or vial without preservative
Normal Saline	• 1000 mL or 500 mL or 250 mL sterile IV bag
Ondansetron (Zofran®)	• 4 mg oral dissolving tablet (ODT) • 4 mg / 2 mL prefilled syringe or 4 mg / 2 mL single dose vial
Sodium Bicarbonate	• 1 mEq / mL 50 mL prefilled syringe (8.4%) • 44.6 mEq / 50 mL prefilled syringe (7.5%)
Tranexamic Acid (TXA) (for Adult/Adolescent)	• 1 gm in a 100 mL premixed bag
OPTIONAL Pharmaceutical	Form / Preparation
Albuterol metered dose inhaler	• 18 gram canister (200 inhalation doses) (SINGLE PATIENT USE ONLY)
Atropine	• 0.4 mg / mL in a 20 mL vial
Duodote Autoinjector	• Prepackaged kit containing Atropine and 2-PAM
Epi Pen Auto Injector	• 0.3 mg Auto Injector
Epi Pen Auto Injector Junior	• 0.15 mg Auto Injector
Fentanyl (may carry in addition to Morphine or as primary opioid in place of Morphine)	• 100 mcg / 2 mL vial or carpject
Hydroxocobalamin	• 5 gm in 200 mL 0.9% normal saline (25 mg / mL)
Ketamine	• As determined by provider agency
Naloxone (Narcan®)	• 8 mg / 0.1 mL preloaded nasal spray
Tranexamic Acid (TXA) (for Pediatric)	• 1 gm in a 10 mL vial



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