ADVANCED LIFE SUPPORT (ALS) PROVIDER UNIT
MINIMUM INVENTORY

I. AUTHORITY: California Health and Safety Code Division 2.5, 1797.200. California Code, Title 22, Div 9, sec 100170.a.2

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:

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: U.S. Food and Drug Administration approved with continuous hands free chest compression, portable, and battery driven.

(Refer to Note #1 below)

Compression constriction band design or chest encircling band with plunger design.

Pass through defibrillator capable or design that allows for cardiac defibrillation with device in place.

LARYNGOSCOPE: Blades: Adult - curved/straight #3 and #4 recommended

Pediatric - straight #1 and #2 (for direct laryngoscopy foreign body removal)

MAGILL FORCEPS: Adult and Pediatric; closed tip
**MONITOR / DEFIBRILLATOR:** 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 wave-form reading output
Recorder: Must be able to produce a paper print out of high quality.
Batteries/Charge Units as Main Power Source

**SPHYGMOMANOMETER:** Assorted cuff sizes, including adult and pediatric

**STETHOSCOPE:** Disposable or non-disposable diaphragm type

**SUCTION UNIT:** Portable, with disposable canister

**TOURNIQUET:** Manufactured, hemostatic, FDA and California EMS Authority approved

**TRACTION SPLINTS:** 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 loading onto gurney (stretcher) or during transport and off-loading]

**OPTIONAL APPROVED EQUIPMENT:**

**AUTOMATIC TRANSPORT VENTILATOR:** Pressure or volume cycled with adjustable tidal volume and rate, audible and visible alarms and alerts with digital monitor screen. Battery powered (not pressure cycled from oxygen cylinder). Must be FDA approved.

**BREAKAWAY FLAT:** Vertically stable for full spinal immobilization

**BACKBOARDS:** Pediatric

**EXTRICATION SPLINT:** Horizontal flexible, vertical rigidity; stabilizes head, neck and back

**END-TIDAL CO₂ NASAL/BVM:** End-tidal CO₂ nasal cannula and adapter for BVM.

**RESUSCITATOR:** 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:** Required for IFT-ALS units.

**INFUSION PUMP:** 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.
VI. 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 mouth piece 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  

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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
Restraints: Soft

Solution, sterile; NS 1000 ml (for irrigation)
Suction, tonsil tip; semi rigid or rigid, large bore (Yankauer suction tip)
Syringes, assorted sizes

Tape (paper, plastic hypoallergenic): assorted sizes and types
Tourniquets, for facilitating IV placement

Petroleum (such as Vaseline®) gauze

Underpads (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

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.

Solution, sterile; NS 1000 mL (for irrigation)

Thermometer; temporal, otic, or oral; electronic with disposable patient contact probes
Tubing, oxygen connecting
## VII. PHARMACEUTICAL INVENTORY:

<table>
<thead>
<tr>
<th>PHARMACEUTICAL</th>
<th>PREPARATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adenosine</td>
<td>12 mg/ 4mL vial or prefilled syringe or 6 mg/2 mL vial or prefilled syringe</td>
</tr>
<tr>
<td>Albuterol (for nebulizer inhalation)</td>
<td>3.0 mL (2.5 mg) of a 0.083% solution</td>
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<tr>
<td>Amiodarone</td>
<td>50 mg/mL, vial or prefilled syringe</td>
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<tr>
<td>Aspirin, chewable</td>
<td>81 mg tablet individually packaged or 325 mg tablet individually packaged</td>
</tr>
<tr>
<td>Atropine</td>
<td>1 mg ampule, vial or prefilled syringe</td>
</tr>
<tr>
<td>Dextrose 10%</td>
<td>250 mL IV bag, 10% solution</td>
</tr>
<tr>
<td>Diphenhydramine (Benadryl™)</td>
<td>50 mg/mL, 1 mL single dose vial or carpuject</td>
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<tr>
<td>Epinephrine 0.1 mg/mL</td>
<td>1 mg/10 mL prefilled syringe</td>
</tr>
<tr>
<td>Epinephrine 1.0 mg/mL</td>
<td>1 mg/1 mL ampule, 1 mg/1 mL vial, or 30 mL vial</td>
</tr>
<tr>
<td>Glucose, oral solutions</td>
<td>Various formulations</td>
</tr>
<tr>
<td>Glucagon</td>
<td>1 mg ampule with diluent</td>
</tr>
<tr>
<td>Midazolam</td>
<td>5 mg/1 mL vial or carpuject</td>
</tr>
<tr>
<td>Morphine sulfate (may carry or replace with optional fentanyl)</td>
<td>10 mg/10 mL, prefilled syringe or 4 mg/1 mL, carpuject; or 10 mg/1 mL, 1 mL vial</td>
</tr>
<tr>
<td>Naloxone (Narcan®)</td>
<td>Various IV/IM formulations ampules, vials, prefilled syringe, or carpujects; or 4mg/0.1 mL preloaded nasal spray</td>
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<tr>
<td>Nitroglycerin</td>
<td>0.4 mg/metered dose spray, 0.4 mg/tabs or 0.4 mg powder (single dose packets)</td>
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<tr>
<td>Normal saline for nebulized inhalation</td>
<td>10 mL prefilled syringe or vial without preservative</td>
</tr>
<tr>
<td>Normal saline</td>
<td>1000 mL or 500 mL or 250 mL sterile IV bag</td>
</tr>
<tr>
<td>Ondansetron (Zofran®)</td>
<td>4 mg oral dissolving tablet (ODT) or 4 mg/2 mL prefilled syringe or 4 mg/2 mL single dose vial</td>
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<tr>
<td>Sodium bicarbonate</td>
<td>1mEq/mL, 50 mL prefilled syringe (8.4%) or 44.6 mEq/50 mL prefilled syringe (7.5%)</td>
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## OPTIONAL APPROVED PHARMACEUTICALS

<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>Albuterol metered dose inhaler</td>
<td>18 gram canister (200 inhalation doses) (SINGLE PATIENT USE ONLY)</td>
</tr>
<tr>
<td>Atropine</td>
<td>0.4 mg/mL, 20 mL vial</td>
</tr>
<tr>
<td>Duodote Autoinjector</td>
<td>Prepackaged kit containing Atropine and 2-PAM</td>
</tr>
<tr>
<td>Epi Pen Auto Injector</td>
<td>0.3 mg Auto injector</td>
</tr>
<tr>
<td>Epi Pen Auto Injector Junior</td>
<td>0.15 mg Auto injector</td>
</tr>
<tr>
<td>Fentanyl (may carry in addition to morphine or as primary opioid in place of morphine)</td>
<td>100 mcg/2 mL vial or carpuject</td>
</tr>
<tr>
<td>Hydroxocobalamin</td>
<td>5 gm in 200 mL 0.9% normal saline, 25 mg/mL</td>
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<tr>
<td>Lidocaine 2% solution (for IO insertion)</td>
<td>100 mg / 5 mL, 5 mL prefilled syringe</td>
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Approved:

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OCEMS Medical Director

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OCEMS Administrator

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