

COUNTY OF VENTURA HEALTH CARE AGENCY		EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES
Policy Title: BLS And ALS Unit Equipment And Supplies		Policy Number: 504
APPROVED: Administration:	 Steven L. Carroll, Paramedic	Date: January 1, 2026
APPROVED: Medical Director	 Daniel Shepherd, MD	Date: January 1, 2026
Origination Date:	May 24, 1987	
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Last Reviewed:	August 14, 2025	
Review Date:	August 31, 2027	

- I. PURPOSE: To provide a standardized list of equipment and supplies for response and/or transport units in Ventura County.
- II. POLICY: Each response and/or transport unit in Ventura County shall be equipped and supplied according to the requirements of this policy.
- III. AUTHORITY: California Health and Safety Code Section 1797.178, 1797.204, 1797.218, 1797.221 and California Code of Regulations Sections 100066.02, 100091.02, 100091.03, 100091.04, 100096.03
- IV. DEFINITIONS:
  - BLS – Basic Life Support Unit
  - ALS – Advanced Life Support Unit
  - PSV – Paramedic Support Vehicle or Paramedic Supervisor Vehicle
  - CCT – Critical Care Transport Unit
  - BLS Command – Basic Life Support Staffed Command Vehicle
  - FR/ALS – First Responder Advanced Life Support Unit
  - VCAU – Ventura County Aviation Unit
- V. PROCEDURE:
  1. The following equipment and supplies shall be maintained on each response and/or transport unit in Ventura County.
  2. Deviation from the standards outlined in this policy shall only be authorized with written approval (see 504 Waiver Request form) from the VCEMS Medical Director. Mitigation attempts should be documented in the comment section on the waiver request form, such as what vendors were contacted, etc.

	BLS Unit Minimum Amount	BLS Command Minimum Amount	ALS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	VCAU Minimum Amount
<b>A. ALL BLS AND ALS RESPONSE AND/OR TRANSPORT UNITS</b>						
Bag valve units with appropriate masks • Adult (1,000 mL) • Child (500 mL) • Infant (240 mL)	1 Each Size	1 Each Size	1 Each Size	1 Each Size	1 Each Size	1 Adult
Nasal cannula	3 Adult	3 Adult	3 Adult	3 Adult	3 Adult	3 Adult
Nasopharyngeal airway • 14 French • 18 French • 20 French • 22 French • 24 French • 26 French • 28 French • 32 French • 34 French • 36 French	1 Each Size	1 Each Size	1 Each Size	1 Each Size	1 Each Size	1 Each Size
Continuous positive airway pressure / Bi-level Positive Airway Pressure (CPAP/BiPap) device	1 Child 1 Small Adult 1 Adult	Optional	1 Child 1 Small Adult 1 Adult	1 Child 1 Small Adult 1 Adult	1 Child 1 Small Adult 1 Adult	1 Child 1 Small Adult 1 Adult
Nerve Agent Antidote (DuoDote Auto-Injector)	Optional	Optional	3	3	3	Optional
Blood glucose determination devices	1	Optional	2	1	1	1
Occlusive Dressing or Chest Seal	5	5	5	5	5	5
Oral glucose 15 g unit dose	1	1	1	1	1	1
Oropharyngeal Airways • 40 mm (Size 00) • 50 mm (Size 0) • 60 mm (Size 1) • 70 mm (Size 2) • 80 mm (Size 3) • 90 mm (Size 4) • 100 mm (Size 5) • 110 mm (Size 6)	1 Each Size	1 Each Size	1 Each Size	1 Each Size	1 Each Size	1 Each Size
Oxygen with appropriate adjuncts (portability required)	15 L/min for 20 mins (40 mins for transport units)	15 L/min for 20 mins	15 L/min for 20 mins (40 mins for transport units)	15 L/min for 20 mins	15 L/min for 20 mins	15 L/min for 20 mins
Portable suction equipment	1	1	1	1	1	1
Nonrebreather oxygen masks • Adult • Child • Infant	3 3 2	2 2 2	3 3 2	2 2 2	2 2 2	2 2 2
Bandage scissors	1	1	1	1	1	1

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	BLS Unit Minimum Amount	BLS Command Minimum Amount	ALS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	VCAU Minimum Amount
Bandages						
• 4"x4" sterile compresses or equivalent	12	12	12	12	12	5
• 2",3",4" or 6" roller bandages	6	2	6	2	2	4
• 10"x 30" or larger dressing	2	0	2	0	0	2
Blood pressure cuffs: Thigh, Adult, Child, Infant	1 Each Size	1 Each Size	1 Each Size	1 Each Size	1 Each Size	1 Each Size
Emesis basin/bag	1	1	1	1	1	1
Flashlight	1	1	1	1	1	1
Traction splint or equivalent device	1	N/A	1	1	1	1
Pneumatic or rigid splints (capable of splinting all extremities)	4	N/A	4	4	4	4
Portable water or saline solution	4 Liters	N/A	4 Liters	4 Liters	4 Liters	4 Liters
Cervical collar	2	N/A	2	2	2	2
Spinal immobilization backboard: 60" minimum with at least 3 sets of straps	1	N/A	1	N/A	1	1
Sterile obstetrical kit	1	1	1	1	1	1
Tongue depressor	4	Optional	4	Optional	Optional	Optional
Cold packs	4	2	4	4	4	4
Eye Shield	2	N/A	2	2	2	2
Tourniquet	2	2	2	2	2	2
1 mL,5 mL, and 10 mL syringes with IM needles	N/A	N/A	4	4	4	4
Automated External Defibrillator	1	1	N/A	N/A	N/A	N/A
Manual Defibrillator	N/A	N/A	1	1	1	1
Defibrillator pads	2 Adult 2 Peds	2 Adult 2 Peds	2 Adult 2 Peds	2 Adult 2 Peds	2 Adult 2 Peds	2 Adult 2 Peds
Stethoscope	1	1	1	1	1	1
Cellular telephone	1	1	1	1	1	1
CO <sub>2</sub> monitor						
• Infant (<0.5 mL sidestream or <1 mL mainstream adaptor)	Optional	Optional	2 Each Size	2 Each Size	2 Each Size	2 Each Size
• Pediatric / Adult ( 6.6 mL sidestream or < 5 mL mainstream adaptor)						
CO <sub>2</sub> monitor						
• Adult size EtCO <sub>2</sub> sampling nasal cannula	Optional	Optional	1 Each Size	1 Each Size	1 Each Size	1 Each Size
• Pediatric size EtCO <sub>2</sub> sampling nasal cannula						
Pediatric length and weight tape	1	1	1	1	1	1
Intranasal mucosal atomization device	Optional	Optional	2	2	2	2
SpO <sub>2</sub> Monitor (If not attached to cardiac monitor)	1	1	1	1	1	1
SpO <sub>2</sub> Adhesive Sensor (Adult, Pediatric, Infant)	Optional	Optional	1 Each Size	1 Each Size	1 Each Size	1 Each Size
Thermometer	1	Optional	1	1	1	Optional
Personal Protective Equipment per State Guideline #216						
• Rescue helmet	2		2	1		
• EMS jacket	2		2	1		
• Work goggles	2		2	1		
• Tyvek suit	2 L / 2 XXL		2 L / 2 XXL	1 L / 1 XXL		
• Tychem hooded suit	2 L / 2 XXL		2 L / 2 XXL	1 L / 1 XXL		
• Nitrile gloves	1 Med / 1 XL		1 Med / 1 XL	1 Med / 1 XL		
• Disposable footwear covers	1 Box		1 Box	1 Box		
• Leather work gloves	3 L Sets		3 L Sets	1 L Set		
• Field operations guide	1		1	1		

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	BLS Unit Minimum Amount	BLS Command Minimum Amount	ALS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	VCAU Minimum Amount
<b>OPTIONAL EQUIPMENT (No minimums apply)</b>						
Hemostatic gauze per EMSA guidelines						

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	BLS Unit Minimum Amount	BLS Command Minimum Amount	ALS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	VCAU Minimum Amount
<b>B. TRANSPORT UNIT REQUIREMENTS</b>						
Ambulance gurney	1	N/A	1	N/A	N/A	N/A
Collapsible stretcher or flat	1	N/A	1	N/A	N/A	2
KED or equivalent (One required for transport units)	1	N/A	1	N/A	N/A	N/A
Straps to secure the patient to the stretcher or ambulance cot and means of securing the stretcher or ambulance cot in the vehicle.	1 Set	N/A	1 Set	N/A	N/A	1 Set
Powered portable suction unit	1	N/A	1	N/A	N/A	N/A
Soft ankle and wrist restraints	1 Set of Each	N/A	1 Set of E ac h	N/A	N/A	N/A
Sheets, pillowcases, blankets and towels for each stretcher or ambulance cot, and two pillows for each ambulance	1	N/A		N/A	N/A	N/A
Bedpan	1	N/A	1	N/A	N/A	N/A
Urinal	1	N/A	1	N/A	N/A	N/A

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<b>C. ALS UNIT REQUIREMENTS</b>						
Supraglottic Airway Devices: I-Gel with passive oxygenation port Sizes: 1, 1.5, 2, 2.5, 3, 4, 5	N/A	N/A	2 Each Size	2 Each Size	2 Each Size	2 Each Size
I-Gel Airway Support Straps	N/A	N/A	2	2	2	2
Arm Boards						
• 9"	N/A	N/A	3	0	1	0
• 18"			3	0	1	0
Colorimetric CO2 Detector Device	N/A	N/A	1	1	1	1
EKG Electrodes	N/A	N/A	10 sets	3 sets	3 sets	6 sets
Endotracheal tubes with stylets, Sizes: 6.0, 6.5, 7.0, 7.5, 8.0	N/A	N/A	1 Each Size	1 Each Size	1 Each Size	1 Each Size
EZ-IO intraosseous infusion system	N/A	N/A	1 Each Size	1 Each Size	1 Each Size	1 Each Size
IV admin set - macrodrip	N/A	N/A	8	4	4	4
IV catheter, Sizes: 14, 16, 18, 20, 22, 24	N/A	N/A	6: 14, 16, 18, 20 3: 22 3: 24	2 Each Size	2 Each Size	2 Each Size
Laryngoscope, replacement bulbs and batteries			1 set	1 set	1 set	1 set
Curved blade: #2, 3, 4	N/A	N/A	1 Each Size	1 Each Size	1 Each Size	1 Each Size
Straight blade: #1, 2, 3			1 Each Size	1 Each Size	1 Each Size	1 Each Size
Magill forceps						
• Adult	N/A	N/A	1	1	1	1
• Pediatric			1	1	1	1
Nebulizer	N/A	N/A	2	2	2	2
Nebulizer with in-line adapter	N/A	N/A	1	1	1	1
Needle Thoracostomy kit	N/A	N/A	2	2	2	2
Flexible intubation stylet	N/A	N/A	1	1	1	1
<b>OPTIONAL ALS EQUIPMENT (No minimums apply)</b>						
Blood Product and Equipment						
Cyanide Antidote Kit						
Needle Thoracostomy Anatomical Landmark Guide						

	BLS Unit Minimum Amount	BLS Command Minimum Amount	ALS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	VCAU Minimum Amount
<b>D. ALS MEDICATION, MINIMUM AMOUNT</b>						
Acetaminophen, 1 g	N/A	N/A	2 g	Optional	2 g	Optional
Adenosine, 6 mg	N/A	N/A	5	5	5	5
Albuterol 2.5 mg/3ml	N/A	N/A	6	2	2	2
Aspirin, 81 mg	N/A	N/A	4 tablets	4 tablets	4 tablets	4 tablets
Amiodarone, 50 mg/ml (3 ml)	N/A	N/A	6	3	6	3
Atropine sulfate, 1 mg/10 ml	N/A	N/A	3	2	2	2
Buprenorphine, 8 mg	N/A	N/A	6 tablets	Optional	6 tablets	Optional
Diphenhydramine, 50 mg/ml	N/A	N/A	2	1	1	2
Calcium chloride, 1000 mg/10 ml	N/A	N/A	2	1	1	1
Dextrose						
• 5% 50 ml, AND			2	1	2	1
• 10% 250 ml			2	2	2	2
Epinephrine						
• Epinephrine , 1mg/ml						
◦ 1 mL ampule / vial (with syringe and needle), OR						
◦ Adult auto-injector (0.3 mg) AND						
◦ Peds auto-injector (0.15 mg)						
◦ Epinephrine 0.1 mg/ml (1 mg/10 ml preparation)	N/A	N/A	5 Optional 6	5 Optional 3	5 Optional 6	5 Optional 4
Fentanyl, 50 mcg/mL	N/A	N/A	200 mcg	200 mcg	200 mcg	200 mcg
Glucagon, 1 mg/ml	N/A	N/A	2	1	2	1
Intravenous Fluids (in flexible containers)						
• Normal saline solution, 100 ml						
• Normal saline solution, 500 ml						
• Normal saline solution, 1000 ml						
Lidocaine, 100 mg/5 ml	N/A	N/A	2	2	2	2
Magnesium sulfate, 1 g per 2 ml	N/A	N/A	4	4	4	4
Midazolam Hydrochloride	N/A	N/A	5 mg/ml 2 vials	5 mg/ml 2 vials	5 mg/ml 2 vials	5 mg/ml 2 vials
Morphine sulfate, 10 mg/ml. (Only required during a Fentanyl shortage)	N/A	N/A	2	2	2	2
Naloxone Hydrochloride						
• IN concentration - 4 mg in 0.1 mL (with atomizer)						
• IM / IV concentration – 2 mg in 2 mL preload	N/A	N/A	Optional 5	Optional 5	Optional 5	Optional 5
Nitroglycerine preparations, 0.4 mg	N/A	N/A	1 bottle	1 bottle	1 bottle	1 bottle
Normal saline flush, 5 or 10 ml	N/A	N/A	5	5	5	5
Ondansetron						
• 4 mg IV single use vial	N/A	N/A	4	4	4	4
• 4 mg oral	N/A	N/A	4	4	4	4
Sodium Bicarbonate 8.4%, 1 mEq/mL (50 mL)	N/A	N/A	4	2	2	2
Tranexamic Acid (TXA) 1 g/10 mL	N/A	N/A	2	1	1	1

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<b>E. BLS MEDICATION, MINIMUM AMOUNT</b>						
Epinephrine <ul style="list-style-type: none"> <li>• Epinephrine , 1mg/ml               <ul style="list-style-type: none"> <li>◦ 1 mL ampule / vial (with syringe and needle), OR</li> <li>◦ Adult auto-injector (0.3 mg) AND Peds auto-injector (0.15 mg)</li> </ul> </li> </ul>	2	2	N/A	N/A	N/A	N/A
Naloxone Hydrochloride (Narcan) <ul style="list-style-type: none"> <li>• IN concentration - 4 mg in 0.1 mL (with atomizer) OR</li> <li>• IM concentration – 2 mg in 2 mL preload</li> </ul>	2	2	N/A	N/A	N/A	N/A