

**PURPOSE:** The purpose of this policy is to specify the minimum quantity of equipment and supplies for Advanced Life Support (ALS) Response and/or Transport units in San Joaquin County.

**AUTHORITY:** Health and Safety Code, Division 2.5, Sections 1797.220 & 1798 et seq.

**DEFINITIONS:**

- A. “Advanced Life Support” or “ALS” means any definitive prehospital emergency care role approved by the San Joaquin County EMS Agency, in accordance with state regulations, which includes all of the specialized services listed in H&SC § 1797.52.
- B. “Advanced Life Support Ambulance” or “ALS Ambulance” means an emergency ambulance operated by an emergency ambulance provider approved to operate at the ALS level pursuant to a written agreement with the San Joaquin County EMS Agency.
- C. “Ambulance” means a vehicle, including aircraft, specially constructed, modified, equipped, or arranged, used or operated for the purpose of transporting sick, injured, convalescent, infirm, or otherwise incapacitated person(s) in the need of medical care.
- D. “ALS Non-Transport Unit” or “ALS First Response” means an ALS non-transport unit operated by a provider approved to operate at the ALS level pursuant to a written agreement with the San Joaquin County EMS Agency.
- E. “Non-Emergency Advanced Life Support Ambulance” or “ALS Non-Emergency” means an ambulance operated by a non-emergency ambulance provider approved to operate at the ALS level pursuant to a written agreement with the San Joaquin County EMS Agency.
- F. “NA” means the provider is not authorized to carry this equipment.
- G. “NR” means the provider is not required to carry the equipment, but can at the providers discretion.

**POLICY:**

- I. Each ALS provider is responsible to develop a daily check out sheet, which shall list all required items listed in this Policy. The provider shall develop an internal Policy that shall require that the attending paramedic complete the check out at the beginning of each shift.
- II. The attending paramedic on each unit is responsible to ensure that all drugs and equipment are present at the beginning of each shift, all equipment is functioning properly, and that all battery-powered devices are charged.

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- III. All ALS emergency ambulances, non-emergency ambulances, and non-transport units shall be stocked and equipped as specified in this policy.
- IV. The quantities specified are minimum quantities except for controlled substances, which are the maximum quantities allowed.
- V. Expiration dates for medications and supplies must be current, as applicable. All medications, supplies, and equipment shall be stored in accordance with the manufacturer’s recommendation.
- VI. In addition to the items listed below, all ambulances must meet the minimum requirements set forth for ambulances in Title XIII of the California Code of Regulations.

	MINIMUM QUANTITIES REQUIRED		
	ALS Non - Emergency	ALS First Response	ALS Emergency
<b>Medications</b>			
Activated Charcoal	50 Gm	50 Gm	100 Gm
Adenosine	30 mg	30 mg	30 mg
Albuterol Aerosolized Solution = 2.5 mg each	4	4	8
Aspirin, children’s chewable – 81 mg tablets	1 bottle	1 bottle	1 bottle
Atropine	3 mg	3 mg	6 mg
Atrovent (Ipratropium bromide HFA) 0.5 mg each	2	2	3
Benadryl	50 mg	50 mg	100 mg
Calcium Chloride	NR	NR	1 gm
Dopamine premix	NA	NR	400 mg
Epinephrine 1:1,000	2 mg	2 mg	4 mg
Epinephrine 1:10,000	4 mg	4 mg	8 mg
Dextrose 50%	25 Gm	50 Gm	75 Gm
Glucagon	1 mg	1 mg	2 mg
Glucose Paste	1	1	2
Lidocaine	200 mg	200 mg	400 mg
Lidocaine premix	NA	NR	2 Gm
Lidocaine Jelly	NA	NR	2 oz
Magnesium Sulfate	NA	NR	5 Gm
Midazolam ( <i>Versed</i> ) ( <b>Must be kept double locked</b> )	10 mg	10 mg	40 mg
Morphine Sulfate ( <b>Must be kept double locked</b> )	20 mg	20 mg	40 mg
Narcan	2 mg	2 mg	4 mg
Neosynephrine – 0.5 mg per metered dose	NA	NR	1 bottle
Nitroglycerin spray (minimum of 60 metered doses)	1 bottle	1 bottle	2 bottle
Normal Saline 1000ml bags	3	3	8

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	MINIMUM QUANTITIES REQUIRED		
	ALS Non - Emergency	ALS First Response	ALS Emergency
Saline/Sterile Water 1000ml Irrigating	2	2	5
Sodium Bicarbonate	100 mEq	100 mEq	100 mEq
<b>Intravenous Supplies &amp; Equipment</b>			
IV start kit, which contains: – (2) Alcohol wipes, (1) Roll tape, 3/4", (2) – 2" x 2" gauze sponge, (1) ID label, (1) Providone iodine prep, (1) Adhesive bandage, (1) Latex Free Tourniquet, (1) OpSite Dressing (or equivalent)	3	3	8
Disposable razors	1	2	2
IV Catheters: 16ga, 18ga, 20ga, 22ga,	2 ea	2 ea	5 ea
IV Catheters: 14ga, 24ga	2 ea	2 ea	2 ea
Hypo needles 18ga, 20ga/21ga, 22ga/23ga, 25ga	2 ea	2 ea	5 ea
Disposable syringes: TB, 3ml, 5ml/6ml, 10ml/12ml	2	2 ea	3 ea
Disposable syringes: 20ml/30ml	1	1	2
Intraosseous needles: 15ga, & 18ga	N/A	2 ea	2 ea
Betadine solution or swabs	N/A	2	4
Solution administration set, Macro drip	2	2	4
Solution administration set, Micro drip	2	1	2
Blood Y tubing	1	2	3
IV extension tubing	1	1	2
Saline locks	2	1	2
IV Warming device	1	NR	1
Glucose monitoring device with multiple strips	1	1	1
<b>Airway Management Supplies &amp; Equipment</b>			
In ambulance oxygen source, minimum of 500 PSI and a wall mounted regulator	1	NA	1
Portable oxygen – D or E size cylinders, minimum of 200 PSI, with regulator	1	1	1
Spare Portable oxygen – D or E size cylinders, minimum of 1800 PSI	1	1	1
Continuous Positive Airway Pressure (CPAP)	NR	NR	1
Wall mount suction device	1	NA	1
Battery powered suction unit	1	1	1
Disposable bag valve device – adult, with appropriate connector masks	2	2	2
Disposable bag valve device – pediatric, with appropriate connector masks for children and infants	1 ea	1 ea	1 ea
Suction Catheters with control, Fr 6, 8, or 10, 12, or 14, 18	1 ea	1 ea	1 ea
Connecting tubing for suction units	2	2	2
Yankauer Tonsil Tip Suction Catheter	2	2	2
Water soluble lubricating jelly	1 Tube	1 Tube	1 Tube
Oropharyngeal Airways, ( <i>adult, child, infant</i> ) sizes 0 – 9	1 ea	1 ea	1 ea

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Nasopharyngeal Airways, Sizes 20, 24, 28, 32, 36 French	1 ea	1 ea	1 ea
Nasal Cannula, adult	2	3	3
Pediatric Non-rebreather oxygen mask	1	1	2
Adult Non-rebreather oxygen mask	2	2	3
Nasal Cannula, pediatric	1	1	2
Adult laryngoscope handle with lithium batteries or 2 disposable handles	1	1	1
Pediatric laryngoscope handle with lithium batteries or 2 disposable handles	1	1	1
Spare lithium batteries for laryngoscope handle	2	2	2
Macintosh laryngeal blades: #1, #2, #3, #4	1 ea	1 ea	1 ea
Miller laryngeal blades: # 0, #1, #2, #3, #4	1 ea	1 ea	1 ea
Spare light bulbs for Macintosh laryngeal blades: #1, #2 and Miller laryngeal blades: # 0, #1, #2, #3	1 ea	1 ea	1 ea
Spare light bulbs for Macintosh laryngeal blades: #3, #4 and Miller laryngeal blades: #4	1 ea	1 ea	1 ea
Magill Forceps – Adult and Pediatric	1 ea	1 ea	1 ea
Endotracheal tubes: 2.0 or 2.5, 3.0 or 3.5, 4.0 or 4.5, 5.0 or 5.5, 6.0 or 6.5, 7.0 or 7.5, 8.0 or 8.5	2 ea	2 ea	2 ea
Pediatric Stylet	1 ea	1 ea	2 ea
ET tube holder	1	2	2
Disposable Endotracheal tube introducers	1	2	2
Meconium aspirators	1	1	2
End tidal CO2 device, quantitative adult	1 ea	1 ea	2 ea
End tidal CO2 device, quantitative pediatric	1 ea	1 ea	1 ea
Nebulizer mask	1	1	1
Breath actuated nebulizer	1	1	2
Pleural decompression kit, which includes: 14 or 16 ga 2 to 2 ½ inch needle and cannula or patients > 50kg, or 18 ga, 1 to 1 ¼ inch needle and cannula for patients less than 50kg, one-way valve, Betadine swab, tape, and 10 ml syringe ,	NA	1	1
Cricothyrotomy insertion kit, which includes: 10 ml syringe, Translaryngeal jet ventilator device with push-button and high-pressure tubing with locking device (Adult), or Bag-Valve device (Pediatric), 10 - 12 ga needle for adult, 12 – 14 ga needle for pediatrics, and Betadine swab, or Enk Oxygen Flow Modulator set, (Adult), or Bag-Valve device (Pediatric), and Betadine swab. Providers are required to have one of the above kits by later than July 1, 2011.	NA	1	1
Combi-Tube SA (Not authorized for use after 12/31/2010)	1	1	2
King Airway LTS-D Size 4 (By no later than 12/31/2010)	1 ea	1 ea	2 ea

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	ALS Non - Emergency	ALS First Response	ALS Emergency
King Airway LTS-D Sizes 3 & 5 (By no later than 12/31/2010)	1 ea	1 ea	1 ea
BAAM	NA	NR	1
<b>Patient Assessment Supplies &amp; Equipment</b>			
Soft ankle/wrist restraints	4	NR	4
Stethoscope	2	1	2
Penlight	1	1	1
Blood pressure cuff: thigh, adult, child, infant	1 ea	1 ea	1 ea
Thermometer or equivalent	1	1	1
Rolls of tape, size 1" or 2" or 3" Hypoallergenic (Transpore/paper)	2	2	2
Bandage shears (heavy duty)	1	1	2
Emesis basins	2	NA	2
Covered waste container	1	NA	1
Bed pan/fracture pan	2	NA	2
Urinal	1	NR	1
OB Kit, which includes: (1) pair of sterile gloves, (1) drape sheet, (2) umbilical clamps, (4) disposal towels, (2) O.B. towelettes, (1) bulb syringe, (2) alcohol preps, (1) O.B. sterile pad (1) plastic bag for placenta, (2) twist ties, (1) receiving blanket, (3) gauze sponges, (pk/2)	1	1	2
1000ml Pressure infusion bag or equivalent	1	1	1
Broselow Pediatric Resuscitation Tape	1	1	1
Cardiac monitor with defibrillation/pacing capabilities	1	1	NA
Cardiac monitor with defibrillation/pacing/12 lead capabilities	NR	NR	1
Pediatric defibrillation equipment	1	1	1
ECG electrodes (adult and pediatric)	6 ea	6 ea	9 ea
Pulse oximetry device	1	1	1
Disposable Blanket	1	1	2
<b>Trauma Supplies &amp; Equipment</b>			
Long board with restraint straps	1	1	2
Pediatric immobilization device	1	1	1
Head immobilization devices <sup>1</sup>	1	2	2
Short extrication device (i.e., KED)	1 ea	1 ea	1 ea
Cervical collars – Various adult and pediatric or adjustable collars	2 ea	2 ea	2 ea
Adult traction splint	1	1	1
Pediatric traction splint	1	1	1
Sterile burn sheets	2	2	4

<sup>1</sup> The use of non-medical tape (i.e., duct tape) is not permitted

	MINIMUM QUANTITIES REQUIRED		
	ALS Non - Emergency	ALS First Response	ALS Emergency
Air occlusive dressings	2	2	4
2 x 2 gauze pads Sterile	N/A	4	8
4 x 4 gauze pads non-sterile	6	6	10
Emergency Bandage (Compression bandage)4"	2	2	3
Emergency Bandage (Compression bandage)6"	2	2	3
Emergency Bandage (Compression bandage)8" Abdominal Bandage	1	1	2
Rigid splints – Short	1 ea	1 ea	2 ea
Rigid splints – Long	1 ea	1 ea	2 ea
Trauma dressings	1	1	1
Gauze roll type bandages, size 2 or 4 or 6	2	2	4
Triangular bandages	1	1	2
Tourniquet SOF Tactical Tourniquet or the Combat Application Tourniquet (CAT) or equivalent product	1	1	1
Instant ice packs	2	2	2
Hot Packs	NR	NR	2
Ringer Cutter	NR	NR	1
<b>Disaster Supplies</b>			
Identification Vests - Medical Group Supervisor, Triage Unit Leader	NA	NR	1 ea
START triage tags	25	50	50
<b>General Equipment</b>			
San Joaquin County Map Book (current within 2 years) or MDC's	1	1	1
Map book for assigned response zones or district (current within 1 year) or MDC's	1	1	1
Battery operated flashlight	1	1	1
Operational driver and Passenger seatbelts <sup>2</sup>	1 ea	1 ea	1 ea
Operational rear seatbelts (jump and bench seats) <sup>3</sup>	1 ea	1 ea	1 ea
Operational front and rear heat and air conditioning	1	NR	1
Patient compartment door latches operable from inside and outside.			
Patient sheets	2	NA	4
Patient blankets	2	NA	2
Patient pillows	1	NA	2
Ambulance gurney with mattress, capable of elevating the head and adjustable to several levels.	1	NA	1

2 Seat belts shall be worn at all times while the vehicle is in motion

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	ALS Non - Emergency	ALS First Response	ALS Emergency
Field Operations Guide ICS 420-1 ( <i>FOG Manual</i> ), current edition	1	1	1
Mobile or portable radio (s) that are able to communicate on Med Net, HEAR and Cal Cord,	1	1	NR
Mobile radios(s) that are able to communicate on Med Net, HEAR and Cal Cord,	NR	NR	1
Portable radio(s) that are able to communicate on Med Net, HEAR and Cal Cord, includes one spare battery per radio	NR	NR	1
Mobile company radio	1	NR	1
Portable company radio, includes one spare battery per radio	1	NR	1
Current San Joaquin County EMS Agency ALS and BLS Policy manual or pocket guide	1 set	1 set	1 set
<b>Personal Protective Equipment (PPE)</b>			
Needle disposal system, which is OSHA compliant	1	1	1
Bottle of instant hand sanitizer (alcohol based)	1	1	2
Biohazard bags (various sizes recommended)	3	3	5
Commercial biohazard spill kit or equivalent	1	1	1
Antibacterial disinfectant solution	1	1	1
ANSI 107(2004) Class 2 or 3 high-visibility – 1 per each crewmember this includes students and interns			
Personnel protective masks minimum rating N95, fit tested for each crewmember			
Latex gloves, multiple sizes, in sufficient quantity. Latex free gloves must be available for crewmembers that have allergies to latex			
Goggles, glasses, or face mask in sufficient quantity			
Gowns in sufficient quantity			
Hard hat – work helmet – Blue one per crewmember, emergency ALS ambulance providers only			
<b>Required by May 1, 2011</b>			
<b>Optional Equipment</b>			
Naso/Orogastric tubes (sump tubes) #16 or 18			
Naso/Orogastric feeding tubes #10			
60 ml Syringe if carrying Naso/orogastric tubes			
Nasal Atomizer			

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