

PURPOSE:

The purpose of this policy is to provide a standardized list 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 and 1798 et seq.
DEFINITIONS:

- A. “Advanced Life Support” means special services designed to provide definitive prehospital medical care, administered by authorized personnel as part of a local EMS system at the scene of an emergency, during transport to an acute care hospital, during interfacility transfers, and while in the emergency department of an acute care facility until responsibility is assumed by the medical staff.
- 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. All ALS emergency ambulances, non-emergency ambulances, and non-transport units shall be stocked and equipped as specified in this policy.
- II. The quantities specified are minimum quantities except for controlled substances which are the maximum quantities allowed.

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- III. Expirations dates for medications and supplies must be current, as applicable. All medications, supplies, and equipment are to be stored in accordance with the manufacturer's recommendation.
- IV. In addition the items listed below all ambulances must meet the minimum requirements set forth for ambulances in Title XIII of the California Code of Regulations.
- V. List of ALS Medications and Equipment:

	MINIMUM QUANTITIES REQUIRED		
	ALS Non - Emergency	ALS First Response	ALS Emergency
Medications			
Activated Charcoal	50 Gm	50 Gm	100 Gm
Adenosine	30 mg	30 mg	42 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	4 mg	4 mg	9 mg
Atrovent (Ipratropium bromide HFA) 0.5 mg each	2	2	3
Benadryl	50 mg	50 mg	100 mg
Calcium Chloride	1 gm	1 gm	2 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	10 mg
Dextrose 50%	25 Gm	50 Gm	100 Gm
Glucagon	1 mg	1 mg	2 mg
Glucose Paste	1	1	2
Lasix	80 mg	80 mg	160 mg
Lidocaine	200 mg	200 mg	400 mg
Lidocaine premix	NA	NR	2 Gm
Lidocaine Jelly	NA	2 oz	2 oz
Magnesium Sulfate	NA	4 Gm	4 Gm
Midazolam (<i>Versed</i>) (Must be kept double locked) ¹	10 mg	10 mg	40 mg
Morphine Sulfate (Must be kept double locked) ²	20 mg	20 mg	60 mg
Narcan	2 mg	2 mg	4 mg
Neosynephrine – 0.5 mg per metered dose	NA	1 bottle	1 bottle
Nitroglycerin spray	1 bottle	2 bottle	2 bottle
Normal Saline 50 ml partial bags	NA	1	1
Normal Saline 250ml bags	1	1	2
Normal Saline 1000 ml bags	3	3	8
Saline/Sterile Water 1000 cc Irrigating	2	2	5

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	MINIMUM QUANTITIES REQUIRED		
	ALS Non - Emergency	ALS First Response	ALS Emergency
Sodium Bicarbonate	100 mEq	100 mEq	200 mEq
Intravenous Supplies & Equipment			
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
Betadine (Providone iodine) swab sticks	2	2	4
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, 3cc, 5cc/6cc, 10cc/12cc	2	2 ea	3 ea
Disposable syringes: 20cc/30cc, 50cc/60cc catheter tip	1	1	2
Intraosseous needles: 15ga, & 18ga	N/A	2 ea	2 ea
3-way Stopcock (for use with I/O)	NA	2	2
Solution administration set, Macro drip	2	2	4
Solution administration set, Micro drip	2	1	2
Blood Y tubing	2	2	3
IV extension tubing	1	1	2
Saline locks	2	1	2
Dial-a-flow	1	NR	1
IV Warming device	1	NR	1
Sterile Gloves size 6 – 8	1 ea	1 ea	2 ea
Sterile sheets or drapes	1	1	2
Glucose monitoring device with multiple strips	1	1	1
Airway Management Supplies & Equipment			
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) device required by 01/01/09	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

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	ALS Non - Emergency	ALS First Response	ALS Emergency
Suction Catheters, Size 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
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
Naso/Orogastric tubes (sump tubes) #14, #16 or 18	NR	NR	1 ea
Naso/Orogastric feeding tubes #5 or 6 and #8	NR	NR	1 ea
Adult laryngoscope handle with batteries or 2 disposable handles	1	1	1
Pediatric laryngoscope handle with batteries or 2 disposable handles	1	1	1
Spare 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
Stylet's Adult and Pediatric	1 ea	1 ea	2 ea
ET tube holder	2	2	2
Disposable Endotracheal tube introducers	1	2	2
Meconium aspirators	1	1	2
End tidal CO2 device, quantitative adult	1 ea	1 ea	4 ea
End tidal CO2 device, quantitative pediatric	1 ea	1 ea	2 ea
Small volume nebulizer	2	2	2
Nebulizer mask	1	1	1
Breath actuated nebulizer	1	1	2
Pleural decompression kit	NA	1	1
Cricothyromoty insertion kit	NA	1	1
Combi-Tube SA	1	1	2
Patient Assessment Supplies & Equipment			
Soft ankle/wrist restraints	4	NR	4

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	ALS Non - Emergency	ALS First Response	ALS Emergency
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
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
Urinal	2	NR	2
1000 ml Pressure infusion bag or equivalent	1	1	1
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
EKG Patches (adult and pediatric)	6 ea	6 ea	9 ea
Conductive medium/pads for defibrillation/pacing	2	2	2
Automatic implanted defibrillator magnet	NR	NR	1
Pulse oximetry device	1	1	1
Disposable Blanket	1	1	2
Trauma Supplies & Equipment			
Long board with restraint straps	1	1	2
Pediatric immobilization device	1	1	1
Head immobilization devices ³	1	2	2
Short extrication device (<i>i.e.</i> , 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
Air occlusive dressings	2	2	4
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

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	ALS Non - Emergency	ALS First Response	ALS Emergency
Emergency Bandage (Compression bandage)8" Abdominal Bandage	1	1	2
Rigid splints – for splinting each extremity	1 ea	1 ea	2 ea
Trauma dressings	1	1	2
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	6
Hot Packs	NR	NR	2
Disaster Supplies			
Identification Vests - Medical Group Supervisor, Triage Unit Leader	NA	NR	1 ea
START triage tags	25	50	50
Pelican Cases with Mark I Kits Issued by EMS Agency	NA	NA	1
General Equipment			
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 ⁴	1 ea	1 ea	1 ea
Operational rear seatbelts (jump and bench seats) ⁵	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
DOT Emergency Response Guide Book, current edition	1	1	1
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,	NR	NR	1

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HEAR and Cal Cord, includes one spare battery per radio			
Mobile company radio	1	NR	1
Portable company radio, includes one spare battery per radio	1	NR	1
Cellular telephone required by May 1, 2011	NR	NR	1
San Joaquin County EMS Agency ALS and BLS Protocols	1 set	1 set	1 set
Personal Protective Equipment (PPE)			
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 crew member 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, Required by May 1, 2011			
Optional PPE Equipment: one set of equipment per crewmember. This equipment is designed to protect the crew against the elements and objects on scene, not blood borne pathogens.			
Eye Protection (goggles)			
Hearing Protection			
Garment single use			
Gloves – chemical – protective Nitrile			
Hooded, chemical resistant clothing			
Jacket – EMS with reflective stripes			
Gloves work			
Footwear covers			
Escape hood			
Knife folding			
Recommended Extended Operations Equipment			
Day Pack for the following equipment			
Water 1 gallon per crewmember			
Water Purification unit			
Rain gear (top and bottom)			
Extra clothing to include personal hygiene items			
Meal Ready to Eat (MRE) or equivalent (six meals per crewmember)			

¹ Midazolam shall be in vial form only by December 31, 2008.

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² Morphine Sulfate shall be in ampule form only by December 31, 2008.

³ The use of non-medical tape (i.e. duct tape) is not permitted.

⁴ Seat belts shall be worn at all times while the vehicle is in motion.

⁵ Seat belts shall be worn at all times while the vehicle is in motion.

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