



Inland Counties Emergency Medical Agency

Serving San Bernardino, Inyo, and Mono Counties

Tom Lynch, EMS Administrator

Reza Vaezazizi, MD, Medical Director

DATE: July 3, 2013

TO: EMS Providers - ALS, BLS, EMS Aircraft
Hospital CEOs, ED Directors, Nurse Managers and PLNs
EMS Training Institutions and Continuing Education Providers
Inyo, Mono and San Bernardino County EMCC Members
Other Interested Parties

FROM: Tom Lynch 
EMS Administrator

Reza Vaezazizi, MD
Medical Director 

SUBJECT: HEMOSTATIC DRESSINGS

After an extensive review of the literature and advice from the Emergency Medical Services Medical Directors Association of California Scope of Practice Committee, the EMS Authority recently approved usage of specific brands of hemostatic dressings in California, if authorized by the local EMS agency Medical Director.

In response, ICEMA has authorized the use of these specific dressings and revised Reference #7010 - BLS/LALS/ALS Standard Drug and Equipment List and #7020 - EMS Aircraft Standard Drug and Equipment List.

Hemostatic dressings remain on the non-exchange optional equipment/medication list. If you are currently stocking hemostatic dressings, please confirm that they are the approved brands.

Attached are copies of the EMS Authority approval letter, Reference #7010 and #7020 with the changes. Please replace your current drug and equipment lists with the updated versions as soon as possible.

If you have any questions, please feel free to contact Sherri Shimshy at (909) 388-5816 or via e-mail at SShimshy@cao.sbcounty.gov.

TL/RV/SAS/mae

Attachments (3)

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EMERGENCY MEDICAL SERVICES AUTHORITY

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(916) 322-4336 FAX (916) 324-2875



EMS Authority Approved Hemostatic Dressings June 14, 2013

Background

The EMS Authority is responsible for approving Hemostatic dressings for use in the prehospital setting (Section 100063 (a) (8) (B), Ch. 2, Division 9, Title 22, Cal. Code of Regulations) for EMTs, AEMTs, and paramedics.

EMS Authority Approved Hemostatic Dressings

After an extensive review of the literature and advice from the Emergency Medical Services Medical Directors Association of California Scope of Practice Committee, the following hemostatic dressings are approved by the EMS Authority for use in the prehospital setting:

1. Quick Clot®, Z-Medica®
 - a. Quick Clot®, Combat Gauze® LE
 - b. Quick Clot®, EMS Rolled Gauze, 4x4 Dressing, TraumaPad®
2. Celox®
 - a. Celox® Gauze, Z-Fold Hemostatic Gauze
 - b. Celox® Rapid, Hemostatic Z-Fold Gauze

Note:

- The above products are “packaged” in various forms (ie Z-fold, rolled gauze, trauma pads, 4”x4”pads) and are authorized provided they are comprised of the approved product.
- Hemostatic Celox Granules, or granules delivered in an applicator, are not authorized.

Who May Use Hemostatic Dressings?

The regulations authorize Emergency Medical Technicians (EMT), Advanced EMTs, and Paramedics in California to utilize hemostatic dressings, if authorized by the local EMS agency Medical Director.

Public Safety First Aid Providers (Law Enforcement, Fire, Lifeguards) or Emergency Medical Responders are not authorized to utilize hemostatic dressings, as these items are not in their scope of practice pursuant to CCR, Title 22, Division 9, Chapter 1.5 (unless they independently hold an EMT certificate or above).

The local EMS Medical Director, pursuant to Health and Safety Code 1798 and 1797.220, remains the final authority regarding the use (or non-use) of these products in their local EMS System.

Future Products

If other products become available on the market in the future, EMSA would review the product and available literature for potential inclusion to the approved list.



BLS/LALS/ALS STANDARD DRUG & EQUIPMENT

Each ambulance and first responder unit will be equipped with the following functional equipment and supplies. **This list represents mandatory items with minimum quantities** excluding narcotics, which must be kept within the range indicated. All expiration dates must be current. All packaging of drugs or equipment must be intact. No open products or torn packaging may be used.

All ALS (transport and non-transport) and BLS transport vehicles shall be inspected annually.

MEDICATIONS/SOLUTIONS

Exchanged Medications/Solutions	BLS	LALS	ALS Non-Transport	ALS Transport
Adenosine (Adenocard) 6mg			1	1
Adenosine (Adenocard) 12mg			2	2
Albuterol Aerosolized Solution (Proventil) - unit dose 2.5mg		4 doses	4 doses	4 doses
Aspirin, chewable - 81mg tablet		2	1 bottle	1 bottle
Atropine 1 mg preload			2	2
Calcium Chloride 1gm preload			1	1
Dextrose 25% 2.5gm preload			2	2
Dextrose 50% 25gm preload		2	2	2
Diphenhydramine (Benadryl) 50mg			1	1
Dopamine 400mg			1	1
Epinephrine 1:1000 1mg		2	2	2
Epinephrine 1:10,000 1 mg preload			3	3
Glucagon 1mg		1	1	1
Glucose paste	1 tube	1 tube	1 tube	1 tube
Ipratropium Bromide Inhalation Solution (Atrovent) unit dose 0.5mg			4	4
Irrigating Saline and/or Sterile Water (1000cc)	2	1	1	2
Lidocaine 100mg			3	3
Lidocaine 1gm or 1 bag pre-mixed 1gm/250cc D5W			1	1
Lidocaine 2% (Viscous) bottle			1	1
Magnesium Sulfate 10gm			1	1
Naloxone (Narcan) 2mg preload (needle less)		2	2	2
Nitroglycerine – Spray 0.4mg metered dose and/or tablets (tablets to be discarded 90 days after opening)		2	1	2

Exchanged Medications/Solutions	BLS	LALS	ALS Non-Transport	ALS Transport
Normal Saline for Injection (10cc)		2	2	2
Normal Saline 100cc			1	2
Normal Saline 250cc			1	1
Normal Saline 500 ml and/or 1000ml		2000 ml	3000 ml	6000 ml
Ondansetron (Zofran) 4mg Oral Disintegrating Tablets (ODT)			4	4
Ondansetron (Zofran) 4 mg IM/ IV			4	4
Phenylephrine HCL - 0.5mg per metered dose			1 bottle	1 bottle
Procainamide 1 gm			1	2
Sodium Bicarbonate 50 mEq preload			2	2
Verapamil 5 mg			3	3

CONTROLLED SUBSTANCE MEDICATIONS

Non-Exchange Controlled Substance Medications MUST BE DOUBLE LOCKED	BLS	LALS	ALS Non-Transport	ALS Transport
Midazolam			20-40mg	20-40mg
Morphine Sulfate -vials of 10mg			20-60mg	30-60mg

AIRWAY/SUCTION EQUIPMENT

Exchanged Airway/Suction Equipment	BLS	LALS	ALS Non-Transport	ALS Transport
BAAM Device			1	2
CPAP circuits - all manufacture's available sizes			1 each	2 each
End Title CO2 device - Pediatric and Adult (may be integrated into bag)			1 each	1 each
Endotracheal Tubes cuffed – 6.0 and/or 6.5, 7.0 and/or 7.5 and 8.0 and/or 8.5 with stylet			2 each	2 each
Endotracheal Tubes, uncuffed – 2.5, 3.0, 3.5 with stylet			2 each	2 each
Endotracheal Tubes, uncuffed – 4.0 or 4.5, 5.0 or 5.5 with stylet			2 each	2 each
ET Tube holders – pediatric and adult		1 each	1 each	2 each
King LTS-D Adult: Size 3 (yellow) Size 4 (red) Size 5 (purple)	SPECIALTY PROGRAMS ONLY 2 each	1 each	1 each	2 each
King Ped: 12-25 kg: Size 2 (green) 25-35kg: Size 2.5 (orange)	SPECIALTY PROGRAMS ONLY 2 each	1 each	1 each	2 each
Mask - Adult & Pediatric non-rebreather oxygen mask	2 each	2 each	2 each	2 each
Mask - Infant Simple Mask	1	1	1	1

Exchanged Airway/Suction Equipment	BLS	LALS	ALS Non-Transport	ALS Transport
Nasal cannulas - pediatric and adult	2 each	2 each	2 each	2 each
Naso/Orogastric feeding tubes - 5fr or 6fr, and 8fr			1 each	1 each
Naso/Orogastric tubes - 10fr or 12fr, 14fr, 16fr or 18fr			1 each	1 each
Nasopharyngeal Airways - (infant, child, and adult)	1 each	1 each	1 each	1 each
Needle Cricothyrotomy Device - Pediatric and adult or Needles for procedure 10, 12, 14 and/or 16 gauge			1 each 2 each	1 each 2 each
One way flutter valve with adapter or equivalent			1	1
Oropharyngeal Airways - (infant, child, and adult)	1 each	1 each	1 each	1 each
Small volume nebulizer with universal cuff adaptor		2	2	2
Suction Canister	1		1	1
Suction catheters - 6fr, 8fr or 10fr, 12fr or 14fr	1 each		1 each	1 each
Ventilation Bags - Infant 250ml Pediatric 500ml (or equivalent) Adult	1 1 1	1 1 1	1 1 1	1 1 1
Water soluble lubricating jelly		1	1	1
Yankauers tonsil tip	1		1	1

Non-Exchange Airway/Suction Equipment	BLS	LALS	ALS Non-Transport	ALS Transport
Ambulance oxygen source -10L/min for 20 minutes	1			1
Flashlight/penlight	1	1	1	1
Laryngeal blades - #0, #1, #2, #3, #4 curved and/or straight			1 each	1 each
Laryngoscope handle with batteries - or 2 disposable handles			1	1
Magill Forceps - Pediatric and Adult			1 each	1 each
Manual powered suction device		1		
Portable oxygen with regulator - 10L/min for 20 minutes	1	1	1	1
Portable suction device (battery operated)	1		1	1
Pulse Oximetry device		(SEE OPTIONAL EQUIPMENT SECTION, PG. 5) 1	1	1
Stethoscope	1	1	1	1
Wall mount suction device	1			1

IV/NEEDLES/SYRINGES/MONITORING EQUIPMENT

Exchanged IV/Needles/Syringes/Monitor Equipment	BLS	LALS	ALS Non- Transport	ALS Transport
Conductive medium or Pacer/Defibrillation pads			2 each	2 each
Disposable Tourniquets		2	2	2
ECG electrodes			20	20
EZ-IO Needles and Driver 15mm, 25mm, and 45mm			2 each 1 each	2 each 1 each
Glucose monitoring device with compatible strips and OSHA approved single use lancets		1	1	1
3-way stopcock with extension tubing			2	2
IV Catheters - sizes 14, 16, 18, 20, 22, 24		2 each	2 each	2 each
Macro drip Administration Set (10 drops/cc)		3	3	3
Micro drip Administration Set (60 drops/cc)		1	1	2
Mucosal Atomizer Device (MAD) for nasal administration of medication		2	2	4
Pressure Infusion Bag (disposable)		1	1	1
Razors		1	2	2
Safety Needles - 20 or 21 gauge and 23 or 25 gauge		2 each	2 each	2 each
Saline Lock Large Bore Tubing Needleless		2	2	2
Sterile IV dressing		2	2	2
Syringes w/wo safety needles - 1cc, 3cc, 10cc catheter tip		2 each		
Syringes w/wo safety needles - 1cc, 3cc, 10cc, 20cc, 60cc catheter tip			2 each	2 each

Non-Exchange IV/Needles/Syringes/Monitor Equipment	BLS	LALS	ALS Non- Transport	ALS Transport
12-lead ECG Monitor and Defibrillator with TCP and printout			1	1
Blood pressure cuff - large adult or thigh cuff, adult, child and infant	1	1	1	1
Needle disposal system (OSHA Approved)		1	1	1
Thermometer - Mercury Free with covers	1	1	1	1

OPTIONAL EQUIPMENT/MEDICATIONS

Non-Exchange Optional Equipment/Medications	BLS	LALS	ALS Non- Transport	ALS Transport
AED/defib pads	2	2		
Ammonia Inhalants			2	2

Non-Exchange Optional Equipment/Medications	BLS	LALS	ALS Non-Transport	ALS Transport
Approved Automatic CPR device	1	1	1	1
Approved Automatic ventilator			1	1
Backboard padding	1	1	1	1
Buretrol			1	1
Capnography monitor and supplies, may be integrated in the cardiac monitor			1	1
Chemistry profile tubes			3	3
EMS Tourniquet	1		1	1
Gum Elastic intubation stylet			2	2
Hemostatic Dressings *	1	1	1	1
IO Needles - Manual, Adult and Pediatric, Optional			1 each	1 each
IV infusion pump			1	1
IV warming device		1	1	1
Manual IV Flow Rate Control Device			1	1
Manual powered suction device	1	1	1	1
Multi-lumen peripheral catheter			2	2
Needle Thoracostomy Kit (prepackaged)			2	2
Pitocin			20 units	20 units
Pulse Oximetry device	1			
Translaryngeal Jet Ventilation Device			1	1
Vacutainer			1	1

* Hemostatic Dressings

- Quick Clot®, Z-Medica®
Quick Clot®, Combat Gauze® LE
Quick Clot®, EMS Rolled Gauze, 4x4 Dressing, TraumaPad®
- Celox®
Celox® Gauze, Z-Fold Hemostatic Gauze
Celox® Rapid, Hemostatic Z-Fold Gauze

Note:

- The above products are “packaged” in various forms (i.e. Z-fold, rolled gauze, trauma pads, 4”x4”pads) and are authorized provided they are comprised of the approved product.
- Hemostatic Celox Granules, or granules delivered in an applicator, are not authorized.

DRESSING MATERIALS/OTHER EQUIPMENT/SUPPLIES

Exchanged Dressing Materials/Other Equipment/Supplies	BLS	LALS	ALS Non-Transport	ALS Transport
Adhesive tape - 1 inch	2	2	2	2
Air occlusive dressing (Vaseline gauze)	1	1	1	1

Exchanged Dressing Materials/Other Equipment/Supplies	BLS	LALS	ALS Non-Transport	ALS Transport
Ankle & wrist restraints, soft ties acceptable	1		0	1
Antiseptic swabs/wipes		10	10	10
Bedpan or fracture pan	1			1
Urinal	1			1
Cervical Collars - Rigid Pediatric & Adult or Cervical Collars - Adjustable Adult & Pediatric	2 each 2 each	2 each 2 each	2 each 2 each	2 each 2 each
Cold Packs	2	2	2	2
Emesis basin or disposable bags & covered waste container	1	1	1	1
Head immobilization device	2	2	2	2
OB Kit	1	1	1	1
Pneumatic or rigid splints capable of splinting all extremities	4	2	2	4
Providence/Iodine swabs/wipes		4	10	10
Roller bandages - 4 inch	6	3	3	6
Sterile bandage compress or equivalent	6	2	2	6
Sterile gauze pads - 4x4 inch	4	4	4	4
Sterile Sheet for Burns	2	2	2	2
Universal Dressing 10x30 inches	2	2	2	2

Non-Exchange Dressing Materials/Other Equipment/Supplies	BLS	LALS	ALS Non-Transport	ALS Transport
Ambulance gurney	1			1
Bandage Shears	1	1	1	1
Blood Borne Pathogen Protective Equipment - (nonporous gloves, goggles face masks & gowns meeting OSHA Standards)	2	1	2	2
Drinkable water in secured plastic container or equivalent	1 gallon			1 gallon
Long board with restraint straps	1	1	1	1
Pediatric immobilization board	1	1	1	1
Pillow, pillow case, sheets & blanket	1 set			1 set
Short extrication device	1	1	1	1
Straps to secure patient to gurney	1 set			1 set
Traction splint	1	1	1	1
Triage Tags - CAL Chiefs or ICEMA approved	20	20	20	20



EMS AIRCRAFT STANDARD DRUG & EQUIPMENT LIST

Each Aircraft will be equipped with the following functional equipment and supplies. This list represents mandatory items with minimum quantities, to exclude narcotics, which must be kept within the range indicated. All expiration dates must be current. All packaging of drugs or equipment must be intact. No open products or torn packaging may be used.

MEDICATIONS/SOLUTIONS	AMOUNT
Adenosine (Adenocard) 6mg	30mg
Adrenaline (Epinephrine) 1:1,000	2mg
Adrenaline (Epinephrine) 1:10,000	3mg
Albuterol Aerosolized Solution (Proventil)-unit dose 2.5mg	4 doses
Aspirin, chewable - 81mg tablet	1bottle
Atropine 1mg preload	3mg
Calcium Chloride	1gm
Dextrose 25%	5gm
Dextrose 50%	50gm
Diphenhydramine (Benadryl) 50mg	50mg
Glucagon	1mg
Glucopaste	1 tube
Intropin (Dopamine)	200mg
Ipratropium Bromide Inhalation Solution (Atrovent) unit dose 0.5mg	4
Lidocaine	300mg
Lidocaine 1 gm or 1 bag pre-mixed 1 gm/250cc D5W	1gm
Lidocaine 2% (Viscous)	2oz
Magnesium Sulfate 10mg	10gms
Naloxone (Narcan)	4 mg
Nitroglycerin – Spray 0.4 mg metered dose and/or tablets (tablets to be discarded 90 days after opening.)	1
Normal Saline for Injection (10cc)	2
Normal Saline 250ml	1
Normal Saline 500ml and/or 1000ml	4000 ml
Ondansetron (Zofran) 4mg Oral Disintegrating Tablets (ODT)	4
Ondansetron (Zofran) 4 mg IM/ IV	4
Phenylephrine HCL - 0.5mg per metered dose	1bottle
Procainamide	1gm
Sodium Bicarbonate	100mEq
Verapamil (Isoptin)	15mg

CONTROLLED SUBSTANCE MEDICATIONS–MUST BE DOUBLE LOCKED	AMOUNT
Midazolam	20-40mg
Morphine Sulfate – vials 10mg	20-60mg

AIRWAY/SUCTION EQUIPMENT	AMOUNT
Aircraft Oxygen source –10L/min for 20 minutes	1
BAAM Device	1
C-PAP circuits - all manufacture's available sizes	1 each
End-tittle CO2 device – pediatric and adult (may be integrated into bag)	1 each
Endotracheal tubes, uncuffed –2.5, 3.0, 3.5 with stylet	2 each
Endotracheal Tubes, uncuffed – 4.0 or 4.5, 5.0 or 5.5 with stylet	2 each
Endotracheal Tubes cuffed – 6.0 and/or 6.5, 7.0 and/or 7.5 and 8.0 and/or 8.5 with stylet	2 each
ET Tube holders – pediatric and adult	1 each
Flashlight/penlight	1
King LTS-D Adult: Size 3 (yellow) Size 4 (red) Size 5 (purple)	1 each
King Ped: 12-25 kg: Size 2 (green) 25-35 kg: Size 2.5 (orange)	1 each
Laryngoscope handle with batteries – or 2 disposable handles	1
Laryngeal blades - #0, #1, #2, #3, #4 curved and/or straight	1 each
Magill Forceps – Pediatric and Adult	1 each
Nasal Cannulas – infant, pediatric and adult	2 each
Naso/Orogastric tubes - 10fr or 12fr, 14fr, 16fr or 18fr	1 each
Naso/Orogastric feeding tubes - 5fr or 6fr, and 8fr	1 each
Nasopharyngeal Airways – infant, child, and adult	1 each
Needle Cricothyrotomy Device (Approved) – Pediatric and adult <i>or</i>	1 each
Needles for procedure 10, 12, 14 and/or 16 gauge	2 each
Non Re-Breather O ₂ Mask – Pediatric and Adult, Infant Simple Mask	2 each
One way flutter valve with adapter or equivalent	1
Oropharyngeal Airways – infant, child, and adult	1 each
Portable Oxygen with regulator – 10L/min for 20 minutes	1
Portable suction device (battery operated) <i>and/or</i> Wall mount suction device	1 each
Pulse Oximetry device	1
Small volume nebulizer with universal cuff adaptor	2
Stethoscope	1
Suction catheters - 6fr, 8fr or 10fr, 12fr or 14fr	1 each
Ventilation Bags – Infant 250ml, Pediatric 500ml and Adult 1L	1 each
Water soluble lubricating jelly	1
Yankauers tonsil tip	1

IV/NEEDLES/SYRINGES/MONITORING EQUIPMENT	AMOUNT
12 Lead ECG Monitor and Defibrillator with TCP and printout	1
Blood pressure cuff - large adult or thigh cuff, adult, child and infant	1 set
Conductive medium <i>or</i> Adult and Pediatric Pacer/Defibrillation pads	2 each
ECG – Pediatric and Adult	20 patches
EZ IO Needles and Driver 15mm, 25mm, and 45mm	2 each 1 each
3-way stopcock with extension tubing	2
IO Needles – Manual, Adult and Pediatric, Optional	1 each
IV Catheters – sizes 14, 16, 18, 20, 22, 24	2 each
Glucose monitoring device	1
Macro drip Administration Set (10 drops/ml)	3
Micro drip Administration Set (60 drops/ml)	1
Mucosal Atomizer Device (MAD) for nasal administration of medication	4
Needle disposal system (OSHA approved)	1
Pressure infusion bag	1
Safety Needles – 20 or 21 gauge and 23 or 25 gauge	2 each
Saline Lock	2
Syringes w/wo safety needles – 1ml, 3ml, 10ml, 20ml, 60ml catheter tip	2 each
Thermometer - Mercury free with covers	1

OPTIONAL EQUIPMENT/MEDICATIONS	Amount
Ammonia Inhalants	2
Automatic ventilator (Approved)	1
Backboard padding	1
BLS AED/defib pads	1
Capnography monitor and supplies, may be integrated in the cardiac monitor	1
Chemistry profile tubes	3
D5W in bag	1
Hemostatic Dressing *	1
IV infusion pump	1
IV warming device	1
Manual powered suction device	1
Medical Tourniquet	1
Needle Thoracostomy Kit (prepackaged)	2
Pitocin	2
Translaryngeal Jet Ventilation Device	1
Vacutainer	1

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DRESSING MATERIALS/OTHER EQUIPMENT SUPPLIES	AMOUNT
Adhesive tape – 1 inch	2
Air occlusive dressing (Vaseline gauze)	1
Aircraft stretcher or litter system with approved FAA straps that allows for Axial Spinal Immobilization	1
Ankle & wrist restraints, soft ties acceptable	1
Antiseptic swabs/wipes	
Bandage Shears	1
Blanket or sheet	2
Blood Borne Pathogen Protective Equipment - (nonporous gloves, goggles face masks & gowns meeting OSHA Standards)	2
Cervical Collars – Rigid Pediatric & Adult <i>or</i>	2 each
Cervical Collars – Adjustable Adult & Pediatric	2 each
Emesis basin or disposable bags & covered waste container	1
Head immobilization device	2
OB Kit	1
Pediatric immobilization board	1
Pneumatic or rigid splints capable of splinting all extremities	4
Providence/Iodine swabs/wipes	
Roller bandages – 4 inch	3
Short extrication device	1
Sterile bandage compress or equivalent	6
Sterile gauze pads – 4x4 inch	4
Sterile Sheet for Burns	2
Traction splint	1
Universal Dressing 10x30 inches	2