Public Health Administration				
Large Conference Room				
2240 E. Gonzales, 2 nd Floor				
Oxnard, CA 93036				

Pre-hospital Services Committee Agenda

	E. Gonzales, 2 nd Floor	
Oxna	rd, CA 93036	
Ι.	Introductions	
П.	Approve Agenda	
III.	Minutes	
IV.	Medical Issues	
	A. Other	
۷.	New Business	
	A. 705 – Treatment Protocols Cover Page	Rosa/Shepherd
	1. 705.29 - Tranexamic Acid	Rosa/Shepherd
	2. 734 - Tranexamic Acid Administration	Rosa/Shepherd
	B. Push Dose Epinephrine	Rosa/Shepherd
	1. 705.02– Allergic Reaction and Anaphylaxis	
	2. 705.09– Chest Pain – Acute Coronary Syndrome	Rosa/Shepherd
	3. 705.11– Crush Injury/Syndrome	Rosa/Shepherd
	 4. 705.21– Shortness of Breath – Pulmonary Edema 5. 705.22– Shortness of Breath – Wheezes/Other 	Rosa/Shepherd Rosa/Shepherd
	6. 705.22– Sinormess of Breath – Wheezes/Other	Rosa/Shepherd
	7. 735 - Push Dose Epinephrine	Rosa/Shepherd
	C. 504 – ALS and BLS Equipment and Supplies	Chris Rosa
VI.	Old Business	
	A. Other	
VII.	Informational/Discussion Topics	
	A. Other	
VIII.	Policies for Review	
	A. 622 – ICE – In Case of Emergency for Cell Phones	
	B. 625 – Physician Orders for Life Sustaining Treatment (POLST)	
	C. 627 – Fireline Medic	
IX.	Agency Reports	
	A. Fire Departments	
	B. Ambulance Providers	
	C. Base Hospitals	
	D. Receiving Hospitals	
	E. Law Enforcement	
	F. ALS Education Program	
	G. EMS Agency	
	H. Other	
Х.	Closing	

	Торіс	Discussion	Action	Approval
II.	Approve Agenda		Approved	Motion: Nicole Vorzimer Seconded: Tom O'Connor Passed unanimous
III.	Minutes		Approved	Motion: Nicole Vorzimer Seconded: Tom O'Connor Passed unanimous
IV.	Medical Issues			
	A. Push Dose Epinephrine	Dr. Shepherd is reviewing all the Epi doses in the 705 policies. The current dosages are on the high side and he will work with Chris Rosa and agency representatives to develop draft language before the next PSC meeting.	Bring back to next PSC.	Motion: Ira Tilles Second: Tom O'Connor Unanimous
ν.	New Business	Ŭ Ŭ		
	A. ROSC Policy	Tabled	Bring back to future PSC Meeting.	
VI.	Old Business			
	A. 319 – Paramedic Preceptor		Remove section "B" and replace it with section "C".	Motion: Kathy McShea Second: Tom O'Connor Unanimous
	 B. 330 – EMT/Paramedic/MICN Decertification and Discipline 	Chris updated this policy to reflect the new regulations. IRP was removed and is now handled through an Administrative Judge.		Motion: Nicole Vorzimer Seconded: James Rosolek Passed unanimous
	C. 504 – ALS/BLS Equipment		Chris will be working on updating this policy with the most current information. Bring back to next PSC.	Motion: Mike Sanders Second: James Rosolek Unanimous
VII.	Informational/Discussion Topics		×	
	A. 210 – Child, Dependent Adult or Elder Abuse Reporting		Tabled	

Health Administration Large Conference Room 2240 E. Gonzales, 2nd Floor Oxnard, CA 93036 Pre-hospital Services Committee Minutes October 11, 2018 9:30 a.m.

	B. 70	05.09 – Nitro Changes	Dr. Shepherd went over changes made to this policy.	Approved	Motion: Kathy McShea Second: Nicole Vorzimer Unanimous				
	C. 72	26 - STEMI		Approved with presented changes.	Motion: Kathy McShea Second: Nicole Vorzimer Unanimous				
VIII.	Polic	ies for Review							
Х.	Agen	cy Reports							
	A.	Fire departments	VCFPD – Mark Komins said there is a B waiver. VCFD-none OFD –none Fed. Fire – none SPFD – none FFD – none	enadryl Shortage and may need a					
	В.	Transport Providers	LMT – none AMR/GCA – AIR RESCUE –						
	C.	Base Hospitals	SVH – They are now an official "Chest P LRRMC – none SJRMC – none VCMC – none	Pain Center".					
	D.	Receiving Hospitals	PVH –none SPH – none CMH – Moving to new hospital on Decer OVCH – none	mber 16, 2018.					
	E.	Law Enforcement	VCSO –none CSUCI PD – none						
	F.	ALS Education Programs	Ventura College – Paramedic Advisory Committee is scheduled for November 2, 2018.						
	G.	EMS Agency	Steve – Katy is retiring and we are all go Katy, for all your hard work and innovativ RFP went out last week. The work grou Dr. Shepherd - none Chris – none Katy –none Karen –none	ve programs.					

		Julie –none Randy – none	
H.	Other		
XI.	Closing	Meeting adjourned at 11:30	



Health Care Services 2240 E. Gonzales Rd Oxnard, CA 93036

For use in "Green Permit Parking" Areas only, EXCLUDES Patient parking areas

Parking Instructions: Parking at workshop venue is limited. Arrive early to allow for offsite parking if venue parking lot is full.

2240 Gonzales Rd. location

If you park in a designated "green permit parking" slot, fold this flyer in half and place pass face-up on the dash of your car, to avoid receiving a ticket.

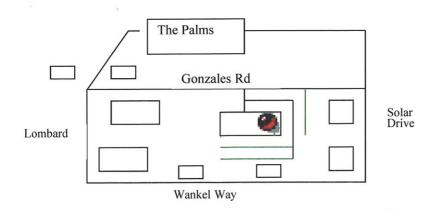
2100 Solar Drive

An additional amount of "Green Permit Parking" spaces (only 30) are available in adjacent parking lot, those that back-up against venue parking area, (Enter this parking lot off of Gonzales[3rd driveway] or Solar Drive). **Place this flyer on your dash.** If all of those stalls are occupied, overflow parking is available at The Palms shopping area or side streets.

The Palms - shopping mall

Enter The Palms at Lombard and Gonzales. Allow for a ten minute walk to venue location.

Additional parking is available on side streets, Lombard, Solar and Wankel Way.



Prehospital Services Committee 2018 For Attendance, please initial your name for the current month

I		, , , , , , , , , ,					•••								
Agency	LastName	FirstName	1/11/2018	2/8/2018	3/8/2018	4/12/2018	5/10/2018	6/14/2018	7/12/2018	8/9/2018	9/13/2018	10/11/2018	11/8/2018	12/11/2018	%
AMR	Stefansen	Adriane				AS				AS	AS				
AMR	Casey	Andrew	YC					AC		AC	AC	AC			
CMH - ER	Levin	Ross	NC		RL	RL		RL		RL		RL			
CMH - ER	Querol	Amy													
OVCH - ER	Pulido	Ed	EP		EP	EP				EP	EP	EP			
OVCH - ER	Ferguson	Catherine	CF		CF	CF				CF	CF				
CSUCI PD	Drehsen	Charles	CD		CD	CD		CD		CD	CD	CD			
CSUCI PD	Camp	Arnie	AC							AC					
FFD	Herrera	Bill	BH		BH	BH		BH		BH	BH	BH			
FFD	Panke	Chad						CP							
GCA	Villasenor	Alejandro						AV		AV		AV			
GCA	Sanders	Mike			MS	MS		MS		MS	MS	MS			
Lifeline	Rosolek	James	JR			JR					JR	JR			
Lifeline	Williams	Joey			JW					JW					
LRRMC - ER	Brooks	Kyle	KB			KB		KB		KB		KB			
LRRMC - ER	Shaner	Meghan	MS		MS	MS		MS		MS		MS			
OFD	Strong	Adam				SM						AS			
OFD	Villa	Jaime	JV		JV	JV		JV				JV			
SJPVH - ER	Hutchison	Stacy	SD			SD		SH		SH	KM	SH			
SJPVH - ER	Sikes	Chris	JD		CS	CS		CS		CS		CS			
SJRMC - ER	Larsen	Todd	TL		TL	TL		TL		TL	TL	TL			
SJRMC - ER	McShea	Kathy	KM		KM	KM		KM		KM	KM	KM			
SVH - ER	Tilles	Ira	IT		IT	IT		IT		IT		IT			
SVH - ER	Vorzimer	Nicole	NV		NV	NV		NV			NV	NV			
V/College	O'Connor	Tom	то		то	ТО		то		то		то			
VCFD	Tapking	Aaron			AT	AT									
VCFD	Ellis	Heather			JH	HE		HE		HE	HE				
VNC	Parker	Barry			SZ			BP		BP	BP	BP			
VNC	Dullam	Joe	JT			JT		JD				JD			
VNC - Dispatch	Gregson	Erica			EG	EG		EG			EG				
VCMC - ER	Chase	David			DC	DC		DC		DC	DC	DC			
VCMC - ER	Gallegos	Tom	TG		TG	TG		TG		TG	TG	TG			

Agency	LastName	FirstName	1/11/2018	2/8/2018	3/8/2018	4/12/2018	5/10/2018	6/14/2018	7/12/2018	8/9/2018	9/13/2018	10/11/2018	11/8/2018	12/11/2018	%
VCMC-SPH	Holt	Carrie	SM		SM	SM									
VCSO SAR	Hadland	Don	DH			DH					DH	DH			
VCSO SAR	Tolle	Jonathon								JT	JT	JT			
VFF	Santillo	Dave													
VFF	Vilaseca	James								JV					
Below names a	a Date Change	e/cancelled	d - not o	counted	d again:	st mem	ber for	attend	ance						
	-														
EMS	Carroll	Steve	SC		SC	SC		SC		SC	SC	SC			
EMS	Frey	Julie	JF		JF	JF		JF		JF	JF	JF			
EMS	Hadduck	Katy	KH		KH	KH		KH		KH	КН	KH			
EMS	Perez	Randy			RP	RP		RP				RP			
EMS	Shepherd	Daniel			DS	DS		DS		DS		DS			
EMS	Rosa	Chris	CR		CR	CR		CR		CR		CR			
EMS	Salvucci	Angelo													
EMS	Hansen	Erik													
EMS	Beatty	Karen	KB		KB	KB		KB		KB	KB	KB			
EMS	Garcia	Martha				MG		MG		MG		MG			
LMT	Winter	Jeff	JW		JW	JW				JW	JW	JW			
LMT	Frank	Steve										SF			
State Parks	Futoran	Jack			JF	JF					JF				
VCMC	Hill	Jessica								JH	JH	JH			
VCMC	Duncan	Thomas				TD		TD				TD			
СМН	Hall	Elaina				EH		EH		EH		EH			
VNC	James	Lauri						IJ		IJ	IJ				
VNC	Shedlosky	Robin	RS		RS	RS		RS		RS					
VNC	Komins	Mark	MK		MK	MK		MK				MK			

COUNTY OF VENTU	JRA	EMERGENCY MEDICAL SERVICES				
HEALTH CARE AGE	INCY	PC	DLICIES AND PROCEDURES			
	Policy Title:		Policy Number			
	Treatment Protocols		705			
APPROVED:			Date: DRAFT			
Medical Director:	Daniel Shepherd, M.D.		Date: <u>DRAFT</u>			
Origination Date:	January 1988					
Date Revised:	See individual algorithms	Effective Date: As in	ndicated on individual algorithms			
Date Last Revised:	See individual algorithms	Lifective Date. As i				
Review Date:	See individual algorithms					

- I. PURPOSE: To provide uniform protocols for prehospital medical control in Ventura County.
- II. AUTHORITY: Health and Safety Code 1797.220 and 1798; California Code of Regulations, Title 22, Division 9, Sections 100063, 100064, and100146.
 - A. DEFINITIONS:
 - Unless otherwise specified in an individual treatment protocol or policy, the following definitions shall apply:
 - a. Adult: Age 12 or greater (12th birthday and older)
 - b. Pediatric: Age less than 12 (up to 12th birthday)
 - B. Exceptions to the pediatric definition rule are in the following policies:
 - 1. Policy 606: Withholding or Termination of Resuscitation and Determination of Death
 - 2. Policy 705.29: Tranexamic Acid
 - <u>3</u>. Policy 710: Airway Management
 - 4. Policy 717: Intraosseous Infusion
 - 5. Policy 734: Tranexamic Acid Administration
 - C. Cardiac Monitor/12 Lead EKG
 - When cardiac monitoring or a 12 Lead ECG is performed, copies of rhythms strips and 12 Lead ECGs shall be submitted to the ALS Provider(s), Base Hospital, and Receiving Hospital.
- IV. POLICY: Treatment protocols shall be used as a basis for medical direction and control for prehospital use.
 - Effective July 1, 2018 BLS personnel are authorized to administer the following medications and/or perform the following procedures for certain conditions as outlined below. BLS personnel shall not administer these medications and/or

perform these procedures until all required training has been completed, and all necessary equipment has been distributed. Training and equipment deployment shall be completed by all agencies no later than July 1, 2019.

- 1. Epinephrine for anaphylaxis or severe respiratory distress as a result of asthma.
- 2. Naloxone for suspected opioid overdose
- 3. Nerve Agent Antidote Kit (Pralidoxime Chloride and Atropine Sulfate) for suspected nerve agent or organophosphate exposure.
- 4. Determination of blood glucose level for altered neurological function and/or for suspected stroke
- 5. Continuous Positive Airway Pressure (CPAP) for shortness of breath.
- B. In the event BLS personnel administer naloxone, epinephrine or a nerve agent antidote kit, ALS personnel will assume care of the patient as soon as possible and continue care at an ALS level, in accordance with all applicable VCEMS policies and procedures.
- C. Hypoglycemic patients with a history of diabetes, who are fully alert and oriented following determination of blood glucose level and a single administration of 15g of oral glucose may be transported at a BLS level of care.
- V. PROCEDURE: See the following pages for specific conditions.

Contents

- 00 General Patient Assessment
- 01 Trauma Assessment/Treatment Guidelines
- 02 Allergic Reaction and Anaphylaxis
- 03 Altered Neurological Function
- 04 Behavioral Emergencies
- 05 Bites and Stings
- 06 Burns
- 07 Cardiac Arrest Asystole/Pulseless Electrical Activity (PEA)
- 08 Cardiac Arrest VF/VT
- 09 Chest Pain Acute Coronary Syndrome
- 10 Childbirth
- 11 Crush Injury/Syndrome
- 12 Heat Emergencies
- 13 Hypothermia
- 14 Hypovolemic/Septic Shock
- 15 Nausea/Vomiting
- 16 Neonatal Resuscitation
- 17 Nerve Agent / Organophosphate Poisoning
- 18 Overdose
- 19 Pain Control
- 20 Seizures
- 21 Shortness of Breath Pulmonary Edema
- 22 Shortness of Breath Wheezes/Other
- 23 Supraventricular Tachycardia
- 24 Symptomatic Bradycardia
- 25 Ventricular Tachycardia Not in Arrest
- 26 Suspected Stroke
- 27 Sepsis Alert
- 28 Smoke Inhalation
- 29 Tranexamic Acid Administration

Tranexamic Acid (TXA) Administration						
ADULT (15 Years of Age and Over)						
BLS Procedures						
Administer oxygen as indicated						
ALS Prior to Base Hospital Contact						
IV/IO Access						
Initial Dose						
 IV/IOPB - 1gm TXA in 100mL NS over 10 minutes 						
Base Hospital Orders only						
Consult with ED Physician for further treatment measures						
Additional Information						
Prepare TXA concentration consistent with standards outlined in VCEMS Policy 734 – Tranexamic						
Acid (TXA) Administration						
During extended transports, usually in a CCT environment, caregivers may encounter different						
concentrations						

COUNTY OF VENTURA HEALTH CARE AGENCY

EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES

Т	Policy Title: ranexamic Acid (TXA) Administration	Policy Number 734XXX
APPROVED:		Date: DRAFT
Administration:	Steve L. Carroll, Paramedic	
APPROVED:		
Medical Director:	Daniel Shepherd, M.D.	Date: DRAFT
Origination Date:		
Date Revised:		Effective Date: DRAFT
Date Last Reviewed:		Ellective Date. DRAFT
Review Date:		

I.	PURPOSE:	To define the indications, contraindications, and procedure related to
	administration	of Tranexamic Acid (TXA) by paramedics.

II. AUTHORITY: <u>Health and Safety Code</u>, <u>Sections 1797.220 and 1798</u>. California Code of <u>Regulations</u>, <u>Title 22</u>, <u>Sections 100145 and 100169</u>.

 III.
 POLICY:
 Paramedics may administer TXA to patients presenting with hypovolemic shock

 secondary to trauma in accordance with this policy.

IV. <u>PROCEDURE:</u>

A. Indications

- 1. Blunt or penetrating traumatic injury with SBP less than or equal to 90mmHg
- 2. Significant hemorrhage not controlled by direct pressure, hemostatic agents, or tourniquet application AND SBP less than or equal to 90 mmHg

B. Contraindications

- 1. Greater than 3 hours post injury
- 2. Isolated spinal shock
- 3. Isolated head injury
- 4. Isolated extremity injury when bleeding has been controlled
- 5. Patient less than 15 years of age
- 6. Active thromboembolic event (within the last 24 hours); i.e., stroke, myocardial infarction, pulmonary embolism or DVT
- 7. History of hypersensitivity or anaphylactic reaction to TXA
- 8. Traumatic arrest with > 5 minutes of CPR without return of spontaneous circulation
- 9. Drowning or hanging victims
- C. Precautions
 - 1. Severe kidney disease
 - 2. Pregnancy

- D. Adverse Effects
 - 1. Chest Tightness
 - 2. Difficulty Breathing
 - 3. Facial flushing
 - 4. Swelling in hands and feet
 - 5. Blurred vision
 - 6. Hypotension with rapid IV infusion
- E. Preparation
 - 1. Supplies Needed:
 - i. 1gm Tranexamic Acid (TXA) (1)
 - ii. 100mL bag of 0.9% normal saline (1)
 - iii. 10mL syringe (1)
 - 2. Mixing Instructions
 - i. Inject 1gm (10mL) of TXA into 100mL NS bag
 - 3. Maintain sterile technique
 - 4. Label bag with the drug name and final concentration
 - i. Example: (TXA 1gm in 100mL NS)
- F. Dosing
 - 1. IV/IO 1gm in 100mL Normal Saline over 10 minutes
- G. Communication and Documentation
 - 1. Communicate the use of TXA to the base hospital
 - 2. Administration of TXA and any/all associated fields will be documented in the Ventura County electronic Patient Care Report (VCePCR)

Allergic Reaction a	and Anaphylaxis
ADULT	PEDIATRIC
BLS Proc	edures
Administer oxygen as indicated Anaphylaxis: Assist patient with prescribed epinephrine auto-injector, or If under 30 kg – Epinephrine IM 1 mg/mL IM 0.15 mg via auto-injector, pre-filled syringe, or syringe/via May repeat x1 in 5 minutes if patient remains in distress If 30 kg and over – Epinephrine IM 1mg/mL IM 0.3mg via auto-injector, pre-filled syringe, or syringe/vial of May repeat x1 in 5 minutes if patient remains in distress May repeat x1 in 5 minutes if patient remains in distress	s draw s
ALS Prior to Base	IV/IO Access
Allergic Reaction: • Benadryl • IV/IO/IM – 50 mg • Albuterol (if wheezing is present) • Nebulizer – 5 mg/6 mL • Repeat as needed	Allergic Reaction: • Benadryl • IV/IO/IM – 1 mg/kg • Max 50 mg • Albuterol (if wheezing is present) • Patient less than 30 kg • Nebulizer – 2.5 mg/3 mL • Repeat as needed • Patient greater than 30kg • Nebulizer – 5 mg/6 mL • Repeat as needed
Anaphylaxis without shock:	Anaphylaxis without Shock:

Ventura County EMS County Wide Protocols

Anaphylaxis without Shock	Anaphylaxis without Shock
Epinephrine 1mg/mL	 Repeat Epinephrine 1 mg/mL
o IM 0.3 mg	 IM – 0.01 mg/kg q 5 min x 2 as needed
 May repeat in 5 minutes if patient remains in distress 	Anaphylaxis with Shock
0	 Epinephrine 1 mg/mL as above "anaphylaxis without shock"
Anaphylaxis with Shock	if IV/IO has not been established
 Epinephrine 1 mg/mL as above "anaphylaxis without shock" if 	Repeat Normal Saline
IV/IO has not been established	→ IV/IO bolus – 20 mL/kg
Repeat Normal Saline	Epinephrine 0.1 mg/mL
→ IV/IO bolus – 1 Liter	 Slow IV/IOP – 0.01 mg/kg (0.1 mL/kg) increments
Epinephrine IV/IO 0.1 mg/mL	over 1-2 min
 Slow IV/IOP - 0.01 mg (1 mL) increments 	 Max 0.03 mg (3 mL)
over 1-2 minutes	
 Max 0.03 mg (3 mL) 	
Base Hospital	Orders Only
Consult with ED Physician for	r further treatment measures
Additional Information	
 In cases of anaphylaxis or anaphylactic shock do not delay 	epinephrine administration for IV/IO access. Utilize IM Epinephrine prior
to IV/IO epinephrine.	

Refer to VCEMS Policy 735 for additional information on preparing push dose solution. .

Effective Date: <u>Draft</u> Next Review Date: October 31, 2020

Chest Pain – Acute Coronary Syndrome	
BLS Procedures	
Administer oxygen if dyspnea, signs of heart failure or shock, or SpO2 < 94%	
Assist patient with prescribed Nitroglycerin as needed for chest pain	
Hold if SBP less than 100 mmHg	
ALS Prior to Base Hospital Contact	
Perform 12-lead ECG	
Expedite transport to closest STEMI Receiving Center if monitor interpretation meets the manufacture	liei
guidelines for a positive STEMI ECG and/or physician states ECG is positive for STEMI.	
Document all initial and ongoing rhythm strips and ECG changes	
For continuous chest pain consistent with ischemic heart disease:	
 Aspirin PO – 324 mg 	
 Nitroglycerin (DO NOT administer if ECG states inferior infarct) 	
\circ SL or lingual spray – 0.4 mg q 5 min for continued pain	
No max dosage	
Maintain SBP greater than 100 mmHg	
IV/IO access	
3 attempts only prior to Base Hospital contact	
If pain persists and not relieved by NTG:	
Morphine – per policy 705 - Pain Control	
 Maintain SBP greater than 100 mmHg 	
If patient presents or becomes hypotensive:	
 Lay Supine Normal Saline 	
 IV/IO bolus – 500 mL -may repeat x1 for total 1000 mL. Unless CHF is present 	
Communication Failure Protocol	
One additional IV/IO attempt if not successful prior to initial BH contact	
4 attempts total per patient	
If hypotensive (SBP less than 90 mmHg) and signs of CHF are present or no response to fluid therapy:	
Epinephrine slow IV/IO push 1mL (10mcg) q 3-5 minutes	
Max 3mL (30mcg) prior to base Titrate to SBP greater than 90mm/Hg	
Epinephrine 0.1 mg/mL	
 Slow IV/IOP – 0.01 mg (1 mL) increments over 1-2 minutes 	
Repeat every 3-5 min	
Max 0.03 mg (3 mL) Pase Heenital Orders only	
Base Hospital Orders only Consult ED Physician for further treatment measures	
Consult ED Physician for further treatment measures	
ED Physician Order Only: For ventricular ectopy [PVC's > 10/min, multifocal PVC's, or unsustained V-Tach], consider	
Amiodarone IV/IOPB - 150 mg in 50 mL D5W infused over 10 minutes	
Additional Information:	
To prepare the push dose epinephrine solution, push 10mL of 0.1mg/mL epinephrine from preload into 100mL bag of normal	<u>al</u>
saline. Final concentration is essentially 10mcg/mL.	- 1-
 Utilizing a 1mL tuberculine syringe, draw 1mL of solution prior to each administration. Discard1 mL from 10 mL saline flush syringe and draw 1 mL from opinophrine proload into flush syringe. This creates a solution of 100 mcg / 10 m 	
or – 10 mcg / 1 mL.	
Nitroglycerin is contraindicated in inferior infarct or when phosphodiesterase inhibitor medications [Sildenafil (Via	
and Revatio), Vardenafil (Levitra), and Tadalafil (Cialis)] have been recently used (Viagra or Levitra within 24 ho	
Cialis within 48 hours). These medications are most commonly used to treat erectile dysfunction or pulmo	nary
hypertension. NTG then may only be given by ED Physician order	
Effective Date: December 1, 2018 Date Revised: October 11, 2018	
Next Review Date: October 31, 2020 Last Reviewed: October 11, 2018	

• Appropriate dose of Aspirin is 324mg. Aspirin may be withheld if able to confirm that patient has received appropriate dose prior to arrival. If unable to confirm appropriate dose, administer Aspirin, up to 324mg.

Effective Date:December 1, 2018Date Revised:October 11, 2018Next Review Date:October 31, 2020Last Reviewed:October 11, 2018

Ventura County EMS County Wide Protocols

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Policy 705.11

ADULT	PEDIATRIC
BLS Pro	ocedures
Determine Potential vs.	cautions as indicated Actual Crush Syndrome gen as indicated <u>body heat</u>
ALS Prior to Base	e Hospital Contact
Potential for Crush Syn	
IV/IO access	
Maintain bod Release com	
	ardiac dysrhythmias
Communication	Failure Protocol
 Initiate 2nd IV/IO access Normal Saline IV bolus – 1 Liter Caution with cardiac and/or renal history Sodium Bicarbonate IV mix – 1 mEq/kg Added to 1st Liter of Normal Saline Albuterol Nebulizer – 5 mg/6 mL Repeat as needed Morphine – Per Policy 705 - Pain Control Maintain body heat Release compression Monitor for cardiac dysrhythmias For cardiac dysrhythmias: Calcium Chloride IV – 1 g over 1 min 	Crush Syndrome Initiate 2 nd IV/IO access if possible or establish IO Normal Saline Caution with cardiac and/or renal history Sodium Bicarbonate OIV mix-1 mEq/kg Added to 1 st Liter of Normal Saline Added to 1 st Liter of Normal Saline Nebulizer - 2.5 mg/3 mL OREGAN State - 5 mg/6 mL OREGAN S
or continued shock Repeat Normal Saline 	For continued shock Repeat Normal Saline
 IV bolus – 1 Liter 	o IV/IO bolus – 20 mL/kg al Orders only
or persistent hypotension after fluid bolus: • Epinephrine 10mcg/mL	For persistent hypotension after fluid bolus: • Epinephrine 10mcg/mL
 1mL (10mcg) every 3-5 minutes, slow IV/IO 	 0.1mL/kg (1mcg/kg) every 3-5 minutes, slow
push	IV/IO push
 Titrate to SBP of greater than or equal to 	 Max single dose of 1mL or 10mcg
<u>90mm/Hg</u>	 Titrate to SBP of greater than or equal to 80
Epinephrine 0.1 mg/mL	<u>mm/Hg</u>
 Slow IV/IOP 0.01 mg (1 mL) increments over 1-2 minutes 	+ Epinephrine 0.1mg/mL
Repeat every 3-5 min	 Slow IV/IOP – 0.01 mg/kg (0.1 mL/kg) over 1-2 min
Max 0.03 mg (3 mL)	
Consult with ED Physician for further treatment measures	Consult with ED Physician for further treatment measures
dditional Information:	

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Next Review Date: October 31, 2020

Last Reviewed: October 11, 2018

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Ventura County EMS County Wide Protocols

Policy 705.11

- To prepare the push dose epinephrine solution, push 10mL of 0.1mg/mL epinephrine from preload into 100mL bag of •
- normal saline. Final concentration is essentially 10mcg/mL. _Utilizing a 1mL tuberculine syringe, draw 1mL of solution prior to each administration.Discard 1 mL from 10 mL saline flush syringe and draw 1 mL from epinephrine preload into flush syringe. This creates a solution of 100 mcg / 10 mL-or 10 mcg / 1 mL
- Potential Crush Syndrome Continuous crush injury to torso or extremity above wrist or ankle for 2 hours or less.
- Crush Syndrome Continuous crush injury to torso or extremity above wrist or ankle for greater than 2 hours. •
- If elderly or cardiac history is present, use caution with fluid administration. Reases and treat accordingly. Dysrhythmias are usually secondary to Hyperkalemia. ECG monitor may show: Peaked T-waves, Absent P-waves, widened QRS complexes, bradycardia .
- Calcium Chloride and Sodium Bicarbonate precipitate when mixed. Strongly consider starting a second IV (if feasible) ٠ for administration of Calcium Chloride

Effective Date: December 1, 2018 Next Review Date: October 31, 2020

Date Revised: October 11, 2018 Last Reviewed: October 11, 2018 Formatted: Indent: First line: 0.5"

	Shortness of Breath – Pulmonary Edema
	BLS Procedures
Adminis	ter oxygen as indicated
Initiate C	CPAP for moderate to severe distress
	ALS Prior to Base Hospital Contact
0	L or lingual spray – 0.4 mg q 1 min x 3
If not alre	eady performed by BLS personnel, Initiate CPAP for moderate to severe distress
Perform	12-lead ECG (Per VCEMS Policy 726)
IV/IO acc	cess
• A	es are present and suspect COPD/Asthma, consider: Ibuterol Nebulizer – 5 mg/6 mL • Repeat as needed
	Communication Failure Protocol
• <u>E</u>	becomes or presents with hypotension <u>pinephrine slow IV/IO push 1mL (10mcg) q 3-5 minutes</u> <u>Max 3mL (30mcg) prior to base</u> <u>Titrate to SBP greater than 90mm/Hg</u> <u>pinephrine 0.1 mg/mL</u> <u>Slow IV/IOP - 0.01 mg (1 mL) increments over 1-2 min</u>
	⊖ Repeat q 3-5 min
	Max 0.03 mg (3 mL)
	Base Hospital Orders only
	Consult with ED Physician for further treatment measures
• To no • Ui • Ui • Ni Ri Ri ho	Information: <u>o prepare the push dose epinephrine solution, push 10mL of 0.1mg/mL epinephrine from preload into 100mL bag of</u> <u>ormal saline. Final concentration is essentially 10mcg/mL.</u> <u>tilizing a 1mL tuberculine syringe, draw 1mL of solution prior to each administration.</u> <u>Discard 1 mL from 10 mL</u> <u>aline flush syringe and draw 1 mL from epinephrine preload into flush syringe. This creates a solution of</u> <u>00 mcg / 10 mL - or - 10 mcg / 1 mL</u> <u>itroglycerin is contraindicated when phosphodiesterase inhibitor medications [Sildenafil (Viagra and</u> <u>evatio), Vardenafil (Levitra), and Tadalafil (Cialis)]</u> have been recently used (Viagra or Levitra within 24 <u>ours; Cialis within 48 hours). These medications are most commonly used to treat erectile dysfunction of</u> <u>ulmonary hypertension</u> . In this situation, NTG may only be given by ED Physician order.

Effective Date:	December 1, 2018	Date Revised:	October 11, 2018
Next Review Date:	October 31, 2020	Last Reviewed:	October 11, 2018

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Effective Date:December 1, 2018Next Review Date:October 31, 2020

Date Revised: October 11, 2018 Last Reviewed: October 11, 2018

Shortness of Breat	h – Wheezes/Other
ADULT	PEDIATRIC
BLS Pro	ocedures
Administer oxygen as indicated	
Initiate CPAP for both moderate and severe distress – 8 years of age	e and older
Assist patient with prescribed Metered Dose Inhaler if available	
Severe Distress Only Epinephrine 1 mg/mL If Under 30 kg IM 0.15 mg May repeat x1 in 5 minutes if patient still If 30 kg and Over IM - 0.3 mg May repeat x 1 in 5 minutes if patient still 	in distress
	e Hospital Contact
Perform Needle Thoracostomy if indicated per VCEMS Policy 715	Perform Needle Thoracostomy if indicated per VCEMS Policy 715
If not already performed by BLS personnel, consider CPAP for both moderate and severe distress	If not already performed by BLS personnel, consider CPAP if age 8 years old and greater
Moderate Distress	Moderate Distress
 Albuterol Nebulizer – 5 mg/6 mL 	Albuterol Patient less than 30 kg
Repeat as needed	 Nebulizer – 2.5 mg/3 mL
Enterscheiden Ausschalt, Massteller aber einsteller	• Repeat as needed
 Epinephrine 1 mg/mL, if not already administered by BLS personnel 	 Patient greater than 30 kg Nebulizer – 5 mg/6 mL
o IM 0.3mg	 Repeat as needed
 May repeat x 1 in 5 minutes if patient still in distress 	 Epinephrine 1 mg/mL, if not already administered by BLS personnel
	 IM – 0.01 mg/kg to a max of 0.15 mg
Severe distress	 May repeat distress 5 minutes, if patient remains in distress
 Epinephrine 1 mg/mL as above for moderate distress if IV/IO has not been established 	 If patient under 30kg, max dose is 0.3
Epinephrine IV/IO 0.1 mg/mL	mg
 Slow IV/IOP-0.01 mg (1 mL) increments over 1-2 minutes 	 If patient 30 kg and over, max dose is 0.6 mg
* <u>Max 0.03 mg (3 mL)</u>	Severe Distress
+	 Epinephrine 1 mg/mL, as above for moderate distress if IV/IO has not been established.
If hypotensive, consider alternative etiologies and refer to	 Epinephrine IV/IO 0.1 mg/mL
additional treatment protocols	Slow IV/IOP-0.01 mg/kg (0.1 mL/kg) increments over 1-
If not already performed by BLS personnel, consider CPAP for	2 minutes
both moderate and severe distress	Max 0.03 mg (3 mL) Suspected Croup
IV/IO access	Normal Saline
	 Nebulizer/Aerosolized Mask – 5 mL
	If hypotensive, consider alternative etiologies and refer to additional treatment protocols
	If not already performed by BLS personnel, consider CPAP if age 8 years old and greater
	IV/IO access
	Failure Protocol
Base Hospita	al Orders only
	Suspected Croup and no improvement with Normal Saline nebulizer
	Less than 30 kg
	• Epinephrine 1mg/mL
	 Nebulizer/Aerosolized Mask – 2.5 mg/2.5mL 30 kg and greater
	 Epinephrine 1mg/mL
	Nebulizer/Aerosolized Mask – 5mg/5 mL
Consult with ED Physician for	or further treatment measures

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Additional Information:

- Discard 1 mL from 10 mL saline flush syringe and draw 1 mL from epinephrine preload into flush syringe. This creates a solution of 100 mcg / 10 mL or -10 mcg / 1 mL High flow O₂ is indicated for severe respiratory distress, even with a history of COPD COPD patients have a higher susceptibility to spontaneous pneumothorax due to disease process
- ٠
- If suspected Arterial Gas Embolus/Decompression Sickness secondary to SCUBA emergencies, transport patient in supine position on 15L/min •
 - O2 via mask. Early BH contact is recommended to determine most appropriate transport destination.

Effective Date: December 1, 2018 Date Revised: October 11, 2018 Next Review Date: October 31, 2020 Last Reviewed: October 11, 2018

Symptomatic	Bradycardia
ADULT (HR less than 45 bpm)	PEDIATRIC (HR less than 60 bpm)
BLS Pro	cedures
Administer oxygen as indicated	Administer oxygen as indicated
Supine position as tolerated	Assist ventilations if needed If significant ALOC, initiate CPR
ALS Prior to Base	
IV/IO access	
Obtain 12-lead ECG	If CPR indicated, intiate CAM and reference appropriate cardiac arrest treatment protocol
Atropine	IV/IO access
 IV/IO – 0.5 mg (1 mg/10 mL) 	 IO access only if patient in extremis
Transautaneous Basing (TCP)	Epinephrine 0.1mg/mL
 Transcutaneous Pacing (TCP) Should be initiated only if patient has signs of 	 Epinephrine slow IV/IO push 0.001 mg/kg (max
 Should be initiated only in patient has signs of hypoperfusion 	<u>10mcg or 1mL)</u>
 Should be started immediately for 3º heart 	 Max 0.01mg/kg q 5 minutes Max 3 doses prior to base
blocks and 2° Type 2 (Mobitz II) heart blocks	 Max 3 doses prior to base Titrate to weight-appropriate SBP (see
 If pain is present during TCP 	chart in Policy XXX – Push Dose Epi)
• Morphine – per policy 705.19 - Pain	 IV/IO – 0.01 mg/kg (0.1 mL/kg) q 3-5 min
Control	
Communication	
If symptoms persist for 3 minutes after first atropine	If symptoms persist and unable to maintain weight-appropriat
dose and if no capture with TCP	SBP Epinephrine
Atropine	Epinephrine slow IV/IO push 0.001 mg/kg (max
• IV/IO – 0.5 mg q 3-5 min	10mcg or 1mL)
 Max 0.04 mg/kg Epinephrine slow IV/IO push 1mL (10mcg) q 3-5 	o Max 0.01mg/kg q 5 minutes
minutes	 Max 3 additional doses
Max 3mL (30mcg) prior to base	 <u>Titrate to weight-appropriate SBP (see</u> <u>chart in Policy XXX – Push Dose Epi)</u>
 Titrate to SBP greater than 	<u>chart in rolicy XXX – rush Dose Epij</u>
<u>90mm/Hg</u>	
 Epinephrine 0.1 mg/mL Slow IV/IOP - 0.01 mg (1 mL) increments 	
over 1-2 min	
Repeat g 3-5 min	
•—	
Base Hospita	l Orders only
For suspected hyperkalemia	Atropine
Calcium Chloride	• IV/IO – 0.02 mg/kg
 IV/IO – 1 g over 1 min 	 Minimum dose – 0.1 mg
Withhold if suspected digitalis toxicity	
Sodium Bicarbonate	
 IV/IO – 1 mEq/kg Consult with ED Physician for 	ar further treatment measure
Additional Information	or further treatment measure
	ians and symptoms are present (sheet pain, altered love
 Bradycardia does not require treatment unless si of consciousness, abnormal skin signs, profound 	igns and symptoms are present (chest pain, altered leve
, 3 , 1	OmL of 0.1mg/mL epinephrine from preload into 100mL bag of
normal saline. Final concentration is essentially 10mg	
	on prior to each administration.Discard 1 mL from 10 mL
saline flush syringe and draw 1 mL from epineph	rine preload into flush syringe. This creates a solution of
100 mcg / 10 mL - or – 10 mcg / 1 mL	

Effective Date: DRAFT Next Review Date: October 31, 2020

Date Revised: October 11, 2018

Last Reviewed: October 11, 2018

COUNTY OF VENTURA

Arrhythmias

EMERGENCY MEDICAL SERVICES

COUNTY OF VENTURA		ENCY MEDICAL SERVICES
HEALTH CARE AGENCY	POI	LICIES AND PROCEDURES
Policy		Policy Number
Push Dose	Epinephrine	
APPROVED:		Date: DRAFT
Administration: Steve L. Carroll,	Paramedic	
APPROVED:		Date: DRAFT
Medical Director: Daniel Shephere	I, M.D.	
Origination Date:		
Date Revised:		Effective Date: DRAFT
Date Last Reviewed: Review Date:		
Review Date.		
I. PURPOSE: To define the indi	cations, contraindications, and procee	dure related to
administration of push dose epir	nephrine	
	Code, Sections 1797.220 and 1798.	California Code of
Regulations, Title 22, Sections 1		
	administer push dose epinephrine to	adult and pediatric
patients as defined by VCEMSA		
IV. Procedure:	· · · · · · · · · · · · · · · · · · ·	
A. Classification		
<u>1. Sympathomimetic agent</u>	(catecholamine)	
B. Indications	<u></u>	
	ref: 705.02 – Allergic reaction / anaph	ivlaxis)
	o heart failure (ref: 705.09 – Chest Pa	
Syndrome)		<u> </u>
	o Crush Injury (ref: 705.11 – Crush Ir	ijury)
	o SOB with Pulmonary Edema (ref: 7	
Pulmonary Edema)		
	a (ref: 705.24 – Symptomatic Bradyca	<mark>ırdia)</mark>
C. Contraindications		
<u>1. None</u>		
D. Adverse Effects		
Cardiovascular Neu	rological Gastrointestinal	
<u>Tachycardia</u> A	nxiety Nausea / Vomiting	
<u>Hypertension</u> <u>D</u>	izziness	
Chest Pain H	eadache	
Palpitations T	remors	

E. Actions

Increases blood pressure and cardiac output via stimulation of alpha and beta adrenergic receptors.

F. Preparing the Concentration

- 1. Adults and Pediatrics
 - Using a "cardiac preload": 1mg/10mL (0.1 mg/mL or 100 mcg/mL)
 - Supplies Needed
 - 1 0.1mg/mL epinephrine preload syringe
 - <u>1 100mL bag of 0.9% normal saline</u>
 - <u>1 1mL syringe</u>
 - Mixing Instructions
 - Push 10mL of 0.1mg/mL epinephrine from preload into 100mL bag of normal saline
 - Final concentration is essentially 10mcg/mL
- 2. Points to Remember
 - Confirm your concentration prior to mixing
 - Maintain sterile technique
 - Label the bag with the drug name and final concentration
 - o Example: "Epinephrine 10mcg/mL"
 - DO NOT administer epinephrine and sodium bicarbonate in the same vascular access line and/or location unless that line has been flushed with at least 10mL of normal saline.

G. Dosing

1.	Adults
	 1mL (10mcg) every 3-5 minutes, slow IV/IO push
	 Titrate to SBP of greater than or equal to 90mm/Hg
2.	Pediatrics
	 0.1mL/kg (1mcg/kg) every 3-5 minutes, slow IV/IO push
	 Max single dose of 1mL or 10mcg

Titrate to SBP of greater than or equal to 80 mm/Hg

H. Communication and Documentation

- 1. Communicate the use of push dose epinephrine to base hospital
 - Include final concentration delivered
 - Report total amount of push dose epinephrine administered, total elapsed time of administration, and patient response
- 2. Administration of epinephrine and any/all associated fields will be documented in the Ventura County electronic Patient Care Report (VCePCR)

EMERGENCY MEDICAL SERVICES COUNTY OF VENTURA HEALTH CARE AGENCY POLICIES AND PROCEDURES Policy Number: Policy Title: **BLS And ALS Unit Equipment And Supplies** 504 APPROVED: Steven L. Carroll, Paramedic Administration: Date: DRAFT **APPROVED**: Medical Director Daniel Shepherd, MD Date: DRAFT May 24, 1987 Origination Date: Effective Date: DRAFT October 11, 2018 Date Revised: October 11, 2018 Last Reviewed: October 31, 2021 **Review Date:**

- 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 100148, 100306, 100404
- IV. PROCEDURE:

The following equipment and supplies shall be maintained on each response and/or transport unit in Ventura County.

Deviation from the standards outlined in this policy shall only be authorized with written approval (see attached Equipment/Medication 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.

504: ALS and BLS Unit Equipment and Supplies	Page 2 of 5
Policy 504:	

	ALS / BLS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	Search and Rescue Minimum Amounts
A. ALL BLS AND ALS RESPONSE AND/OR TRANSPORT UNITS				
e following sizes:				
Adult Child	1000 F	1 000 b	dooo b	1 adult
Infant	- eaci	each	1 each	
Neonate				1 Intant
Bag valve units		-		
Child		l eacn	1 each	adult
Nasal cannula Anrit	e	e	3	0
Nasoobarvnoeal aitwav				
(adult and child or equivalent)	1 each	1 each	1 each	1 each
Continuous positive airway pressure (CPAP) device	1 per size	1 per size	1 per size	1 per size
Nerve Agent Antidote Kit	6	6	6	0
Blood glucose determination devices (optional for non-911 BLS units)	2	+	**	1
Oral glucose 15gm unit dose	-	۱	*	1
Oropharyngeal Airways				
	1 each size	1 each size	1 each size	1 each size
nitialit Newhorn				
		10 Imin for	10 Imin for 20	401 /min for
Oxygen with appropriate adjuncts (portability required)	10 L/min for 20 minutes	20 mins.	nu Erinia jai 20 mins	20 mins
Portable suction equipment	-	v	-	-
Transparent oxygen_masks				
Adult nonrebreather	en -	ы	0	~
		<2 €	~ 0	~ 0
Bandage scissors	×	* •	*	v +
	-	-	_	
Bandages				
4"x4" sterile compresses or equivalent	12	12	12	ۍ ک
2",3",4" or 6" roller bandages	Q	1	9	• 4
 10"x 30" or larger dressing 		0	N	0
Blood pressure cuffs				
Thigh	too		4	-
Adult	e	*
Child	,	* 4	¥ 4	
2 1921 1	-	8	~~	
Emesis basin/bag		*	*-	-
Fiashight	-		+	1
Traction splint or equivalent device	-	1	1	1
Preumatic or rigid splinits (capable of splinting all extremities)	4	4	4	4
Potable water of saline solution	4 liters	4 liters	4 liters	4 liters
Cervical spine immobilization device	2	2	2	2
Spinal immobilization devices KED or equivalent	-	Ŧ		Ţ
		_	-	

Policy 504: ALS and BLS Unit Equipment and Supplies Page 3 of 5

60" minimum with at least 3 sets of straps Sterile obstetrical kit Tonoue depressor		Amount	Minimum Amount	Rescue Minimum Amounts
Sterile obstetrical kit Tongue depressor	1	0	1	
Tonque depressor	1	1	1	1
	4	4	4	4
Cold packs	4	4	4	4
Tourniquet	-	-		
1 mL. and 5 mL. and 10 mL svringes with IM needles	4	4	4	4
Automated External Defibriliator (if not equipped with ALS monitor/defibriliator)	.	*	┯	1
Personal Protective Equipment per State Guideline #216				
Rescue helmet	5	~	0	0
EMS jacket	5	~	0	0
Work goggles	2	-	0	0
Tyvek suit	2L/2XXL	1L/1XXE	0	0
Tychem hooded suit	2 L / 2 XXL	1L/1XXL	0	0
Nitrije gloves	1 Med / 1 XL	1 Med / 1 XL	0	0
Disposable footwear covers	Box	1 Box	0	0
Leather work gloves	3 L Sets	1 L Set	0	0
Field operations guide	***	1	0	0
OPTIONAL EQUIPMENT				
Occlusive dressing or chest seal				
Hemostatic gauze per EMSA guidelines				
B. TRANSPORT UNIT REQUIREMENTS				
Ambulance cot and collapsible stretcher; or two stretchers, one of which is collapsible.	1	0	0	4
Straps to secure the patient to the stretcher or ambulance cot, and means of securing the stretcher or ambulance cot in	1 Set	0	0	1 Set
the vehicle.				
Soft Ankle and wrist restraints.	-	0	0	0
Sheets, pillow cases, blankets and towels for each stretcher or ambulance cot, and two pillows for each ambulance	-	0	0	0
Bedpan	1	0	0	0
Urinal	****	0	0	0

and Supplies	Page 4 of 5
t Equipment	
ALS and BLS Unit Equipment and Supp	
olicy 504: ALS	

	ALS / BLS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	Search and Rescue Minimum Amounts
C. ALS UNIT REQUIREMENTS				
Celtular telephone	-	~	-	-
Atternate ALS airway device	2	+-	-	-
Arm Boards				
20° 	m	00		00
Cardiac monitoring equipment	-	-		
CO ₂ monitor	1	-	*	+
Colorimetric CO2 Detector Device	1	+	1	1
Defibrilitator pads or gei	ę	m	ę	1 adult No Peds
Defibrillator w/adult and pediatric paddles/pads	-	-	1	-
EKG Electrodes	10 sets	3 sets	3 sets	6 sets
Endotracheal intubation tubes, sizes 6.0, 6.5, 7.0, 7.5, 8.0 with stylets	1 of each size	1 of each size	1 of each size	4, 5, 6, 6.5, 7, 7.5, 8
EZ-IO intraosseous infusion system	1 Each Size	1 Each Size	1 Each Size	1 Each Size
Intravenous Fluids (in flexible containers)				
Normal saline solution. 100 ml	2	***		,
Normal saline solution, 500 ml	2	*~-	-	1
Normal saline solution, 1000 ml	ę	2	4	ო
IV admin set - macrodrip	4	*	4	3
IV catheter, Sizes I4, I6, I8, 20, 22, 24	6 each 14, 16, 18, 20 3 each 22 3 each 24	2 each	2 each	2 each
Laryngoscope, replacement bulbs and batteries	1 set	1 set	1 set	1 set
Curved blade #2, 3, 4 Straight blade #1, 2, 3	1 each 1 each	1 each 1 each	1 each 1 each	1 each 1 each
	~	-		~
Aguit Pediatric	۳-	. ←	4 ~~	. 4
Nebulizer	2	2	2	2
Nebulizer with in-line adapter		-	1	
Needle Thoracostomy kit	2	2	2	2
Pediatric length and weight tape	1	-	*	***
SpO ₂ Monitor (If not attached to cardiac monitor)	-	1	***	t
OPTIONAL ALS EQUIPMENT (No minimums apply)				
Flexible intubation stylet				
Cyanide Antidote Kit				

	Policy	Policy 504: ALS and BLS Unit Equipment and Supplies Page 5 of 5	3LS Unit Eq	uipment an F	nd Supplies Page 5 of 5
	BLS Unit Minimum Amount	ALS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	Search and Rescue Minimum Amounts
D. MEDICATION. MINIMUM AMOUNT					
enosine,		e	3	3	3
Albuterol 2.5mg/3ml		9	2	3	1
Aspirin. 81mg		4 ea 81 mg	4 ea 81 mg	4 ea 81 mg	4 ea 81 mg
Amiodarone, 50mg/ml 3ml		9	3	9	ю
Atropine sulfate, 1 mg/10 ml		2	2	2	2
Diphenhydramine (Benadryl), 50 mg/ml		2	1	1	2
Calcium chloride, 1000 mg/10 ml		2	1	1	1
Dextrose					
• 5% 50ml, OR		2	1	2	+
 10% 250 ml, OR 		5	2	2	2
 25% 2.5 GM 10ml, OR 		-	-		-
• 50%, 25 GM/50		2	-	2	-
			,	'	
	2	5	5	20	م
	2	4	7		
Adult auto-trijector (0.3 riig), AND Dade artho-trijector (0 15 mn)	2	4	2	2	7
 Epinephrine 0.1mg/ml (1 mg/10ml preparation) 		9	з	9	4
Glucagon, 1 mg/ml		2	1	2	-
Lidocaine, 100 mg/5ml		2	2	2	2
Magnesium sulfate, 1 gm per 2 ml		4	4	4	4
Midazolam Hydrochloride (Versed)		<u>5 mg/ml</u> 2 vials	<u>5 mg/ml</u> 2 vials	5 mg/ml 2 vials	5 mg/ml 2 vials
Morphine sulfate, 10 mg/ml		2	2	2	2
Naloxone Hvdrochloride (Narcan)			1		
IN concentration - 4 mg in 0.1 mL (optional for ALS and non-911 BLS units), OR	~ ~	5	r 2	c 4	n u
	7	1 hottle	1 hottle	1 hottle	1 hottle
Nitroglycerine preparations, 0.4 mg		0100			· · ·
Normal saline, 10 ml		7	v	7	4
Sedium bicarbonate, 50 mEq/ml		CI	+	+	+
Ondansetron					
4 mg IV single use vial 4 mg oral		4	4	1 41	4
Ondansetron 4 mg oral		4	4	4	4
Midazolam Hydrochloride (Versed)		-5-mg/ml 2-vials	5-mg/ml 2-vials	5 mg/ml 2 vials	5 mg/ml 2 vials
Sodium Bicarbonate, 50 mEq/mL		01	-1	۲I	۲I
Tranexamic Acid (TXA) 1 am/10 mL		2	-1	۲I	۲I
			~		

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COUNTY OF VENTU	RA	EMERGE	NCY MEDICAL SERVICES
HEALTH CARE AGE	NCY	POL	ICIES AND PROCEDURES
	Policy Title:		Policy Number
ICE – Ir	Case of Emergency for Cell Phones		622
APPROVED:	At CM		Data: December 1, 2009
Administration:	Steven L. Carroll, EMT-P		Date: December 1, 2008
APPROVED:			Data: Dacamber 1, 2009
Medical Director:	Angelo Salvucci, M.D.		Date: December 1, 2008
Origination Date:	May 11, 2006		
Date Revised:	May 11, 2006	Effoctiv	e Date: December 1, 2008
Date Last Reviewed:	September 11, 2014	Ellectiv	e Date. December 1, 2000
Next Review Date:	September, 2017		

I. PURPOSE: To inform EMS providers of the ICE (In Case of Emergency) program that is promoted for personal cell phones. This is described as a universally-recognized mechanism to provide prompt notification to a family member or other designated contact of an ill or injured patient, and perhaps obtain information about a patient's medical history.

II. AUTHORITY: Division 2.5 of the Health and Safety Code, Sections 1797.214 and 1798III. DEFINITIONS: "ICE" is an acronym for "In Case of Emergency".

IV. PROCEDURE: It may be practical for EMS Providers to briefly search for a cell phone or other identification when working with a patient that is unable to provide this information. These items could then be provided to law enforcement or transported with the patient to the hospital. EMS providers are not usually the ones who make emergency notifications to family members or other third parties. This is normally done by law enforcement, hospitals or others involved in the situation. Searching for cell phones or making notifications, whether to an ICE contact or other third party, should never delay patient assessment, treatment, or transport. Currently, there are no applicable federal laws that *require* an EMS provider to check a patient's cell phone and attempt to make contact with the patient's ICE designee. If the EMS Provider attempts to make a notification, they should only disclose personal health information about the patient that is directly relevant to their involvement with the patient's health care. This notification should be documented on the approved Ventura County documentation system.

	DA		
COUNTY OF VENTU			RGENCY MEDICAL SERVICES
HEALTH CARE AGE	NCY	F	POLICIES AND PROCEDURES
	Policy Title:		Policy Number
Physician Orde	rs for Life-Sustaining Treatment (POLST)		625
APPROVED	ME CU		
Administrator:	Steven L. Carroll, Paramedic		Date: December 1, 2014
APPROVED:			Date: December 1, 2014
Medical Director:	Angelo Salvucci, M.D.		Date. December 1, 2014
Origination Date:	January 7, 2009		
Date Revised:	October 9, 2014	-	
Date Last Reviewed:	October 9, 2014	Entectiv	ve Date: December 1, 2014
Review Date:	October, 2016		

- I. PURPOSE: To permit Ventura County Emergency Medical Services personnel to honor valid POLST forms and provide end-of-life care in accordance with a patient's wishes.
- II. AUTHORITY: California Health and Safety Code, Sections 1798 and 7186.California Probate Code, Division 4.7 (Health Care Decisions Law).
- III. DEFINITIONS:
 - A. "EMS Personnel": All EMTs, Paramedics and RNs caring for prehospital or interfacility transfer patients as part of the Ventura County EMS system.
 - B. Valid Physician Orders for Life-Sustaining Treatment (POLST). A completed and signed physician order form, according to California Probate Code, Division 4.7 and approved by the California Emergency Medical Services Authority.

IV. POLICY:

- A. A POLST form must be signed by the patient or surrogate and physician to be valid.
- B. Although an original POLST form is preferred, a copy or FAX is valid.
- C. When a valid POLST form is presented, EMS personnel will follow the instructions according to the procedures below.
- D. The POLST form is intended to supplement, not replace, an existing Advance
 Health Care Directive. If the POLST form conflicts with the Advance Health Care
 Directive, the most recent order or instruction of the patient's wishes governs.

V. PROCEDURE:

- A. Confirm that:
 - 1. The patient is the person named in the POLST.
 - 2. The POLST form, Section D, is signed by the patient or surrogate and physician. The form is not valid if not signed by both.

- B. POLST form Section A:
 - If the patient has no pulse and is not breathing AND "Do Not Attempt Resuscitation/DNR" is selected, refer to VC EMS Policy 613 – Do Not Resuscitate.
 - If the patient has no pulse and is not breathing AND EITHER "Attempt Resuscitation/CPR" is selected OR neither option is selected then begin resuscitation. (Selecting CPR in Section A requires selecting Full Treatment in Section B)
- C. POLST Form Section B: This section applies if the patient has a pulse and/or is breathing.

1. If **"Full Treatment**" is selected, the following treatments may be done as indicated:

- a. All items included in Selective and Comfort-Focused Treatment
- b. Intubation and other advanced airway interventions
- c. Mechanical Ventilation
- d. Cardioversion / Defibrillation

2. If "**Selective Treatment**" is selected, the following treatments may be done as indicated:

- a. All items included in Comfort-Focused Treatment
- b. General Medical Treatment
- c. IV Antibiotics
- d. IV Fluids
- e. Non-Invasive positive airway pressure

3. If "**Comfort-Focused Treatment**" is selected, the following treatments

may be done as indicated:

- a. Relieve pain and suffering with medication by any route as needed
- b. Oxygen
- c. Suctioning
- d. Manual treatment of airway obstruction

Do not use treatments listed in Full and/or Selective Treatment unless consistent with comfort goal. Request transfer to hospital **only** if comfort needs cannot be met in current location.

- D. If there is any conflict between the written POLST orders and on-scene individuals, contact the base hospital.
- E. Take the POLST form with the patient.
- VI. DOCUMENTATION:

For all cases in which a patient has been treated according to a POLST form, the following documentation is required in the narrative section of the Ventura County Electronic Patient Care Report (VCePCR):

- A. A statement that the orders on a POLST form were followed.
- B. The section of the POLST form that was applicable.

HIP	PAA PERN	MITS DISC	LOSURE OF	POLST TO OT	HER	IEALTHCARE PR	OVIDE	ERS AS NECESSAR	łY
MEDICA	SERVICE	Physi	cian Ord	ers for L	ife-S	Sustaining 1	rea t	tment (POLS	ST)
				nen contact physi		Patient Last Name:		Date Form Prepared:	
E BOCAL	FORMUNC	physician c	order. Any section	T form is a legally not completed in POLST complen	nplies	Patient First Name:		Patient Date of Birth:	
EMSA #	#111 B e 10/1/2014)*	an Advan		d is not intende		Patient Middle Name:		Medical Record #: (optic	onal)
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D Check One	In addi	ition to treati ced airway ii	ment described	in Selective Trea echanical ventilat	tment a	I medically effective and Comfort-Focused d cardioversion as inc	l Treatn	nent, use intubation,	
	In addi fluids a	ition to treatr as indicated.	nent described i Do not intubate Request transfe	n Comfort-Focus . May use non-in er to hospital <u>or</u>	ed Trea vasive nly if co	positive airway press mfort needs cannot b	reatmei ure. Ge	nt, IV antibiotics, and IV nerally avoid intensive o	
	Relieve of airw goal. F	e pain and s ay obstruction	uffering with me on. Do not use t	dication by any r reatments listed	oute as in Full a		ent unle	oning, and manual treat ess consistent with com t location.	
С	ARTIFIC		MINISTERED N	UTRITION:		Offer food by	/ mout	th if feasible and des	sired.
C Check	□ Long-t	term artificial	Inutrition, includ	ing feeding tubes		Offer food by dditional Orders:			sired.
C Check One	□ Long-f □ Trial p	term artificial period of artifi	l nutrition, includi icial nutrition, inc		bes				sired.
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HIPAA PERMITS DISCLOSURE OF POLST TO OTHER HEALTHCARE PROVIDERS AS NECESSARY

Patient Information					
Name (last, first, middle):		Date of Birth:	Gender:	М	F
Healthcare Provider Assisting with For	m Preparation	□ N/A if POLST is completed	l by signing	phys	ician
Name:	Title:	Phone Number:			
Additional Contact					
Name:	Polationahin to Dationt:	Phone Number:			
Name.	Relationship to Patient:				
Dire	ections for Healthcare	Provider			
Completing POLST					
 Completing a POLST form is voluntary. providers, and provides immunity to those v by a physician who will issue appropriate o POLST does not replace the Advance Di ensure consistency, and update forms appropriate or polyce in the provided of th	who comply in good faith rders that are consistent irective. When available,	. In the hospital setting, a patie with the patient's preferences. review the Advance Directive	ent will be a	ssess	
 POLST must be completed by a healthcare 	provider based on patie	nt preferences and medical in	dications.		
 A legally recognized decisionmaker may in an Advance Directive, orally designated su available relative, or person whom the patie will make decisions in accordance with the 	rrogate, spouse, registere ent's physician believes b	ed domestic partner, parent of best knows what is in the patie	a minor, clo nt's best int	osest	

- A legally recognized decisionmaker may execute the POLST form only if the patient lacks capacity or has designated that the decisionmaker's authority is effective immediately.
- POLST must be signed by a physician and the patient or decisionmaker to be valid. Verbal orders are acceptable with follow-up signature by physician in accordance with facility/community policy.
- If a translated form is used with patient or decisionmaker, attach it to the signed English POLST form.
- Use of original form is strongly encouraged. Photocopies and FAXes of signed POLST forms are legal and valid. A copy should be retained in patient's medical record, on Ultra Pink paper when possible.

Using POLST

• Any incomplete section of POLST implies full treatment for that section.

Section A:

 If found pulseless and not breathing, no defibrillator (including automated external defibrillators) or chest compressions should be used on a patient who has chosen "Do Not Attempt Resuscitation."

Section B:

- When comfort cannot be achieved in the current setting, the patient, including someone with "Comfort-Focused Treatment," should be transferred to a setting able to provide comfort (e.g., treatment of a hip fracture).
- Non-invasive positive airway pressure includes continuous positive airway pressure (CPAP), bi-level positive airway pressure (BiPAP), and bag valve mask (BVM) assisted respirations.
- IV antibiotics and hydration generally are not "Comfort-Focused Treatment."
- Treatment of dehydration prolongs life. If a patient desires IV fluids, indicate "Selective Treatment" or "Full Treatment."
- Depending on local EMS protocol, "Additional Orders" written in Section B may not be implemented by EMS personnel.

Reviewing POLST

It is recommended that POLST be reviewed periodically. Review is recommended when:

- · The patient is transferred from one care setting or care level to another, or
- · There is a substantial change in the patient's health status, or
- The patient's treatment preferences change.

Modifying and Voiding POLST

- A patient with capacity can, at any time, request alternative treatment or revoke a POLST by any means that indicates intent to revoke. It is recommended that revocation be documented by drawing a line through Sections A through D, writing "VOID" in large letters, and signing and dating this line.
- A legally recognized decisionmaker may request to modify the orders, in collaboration with the physician, based on the known desires of the patient or, if unknown, the patient's best interests.

This form is approved by the California Emergency Medical Services Authority in cooperation with the statewide POLST Task Force. For more information or a copy of the form, visit **www.caPOLST.org**.

SEND FORM WITH PATIENT WHENEVER TRANSFERRED OR DISCHARGED

COUNTY OF VENTU	RA	EMERGE	ENCY MEDICAL SERVICES
HEALTH CARE AGEI	NCY	POL	ICIES AND PROCEDURES
	Policy Title:		Policy Number
	Fireline Medic		627
APPROVED:	ALCU		Date: December 1, 2014
Administration:	Steven Carroll, Paramedic		Date. December 1, 2014
APPROVED:	and the second		Date: December 1, 2014
Medical Director 🧹	Angelo Salvucci, M.D.		
Origination Date:	October 5, 2011		
Date Revised:	September 11, 2014	Effor	tive Date: December 1, 2014
Date Last Reviewed:	September 11, 2014	Ellec	
Review Date:	September, 2016		

- I. PURPOSE: To establish procedures for a fireline paramedic (FEMP) response from and to agencies within or outside local EMS agency (LEMSA) jurisdiction when requested through the statewide Fire and Rescue Mutual Aid System, to respond to and provide advanced life support (ALS) care on the fireline at wildland fires.
- II. AUTHORITY: California Health and Safety Code, Division 2.5, Sections 1797.204, 1797.220; California Code of Regulations, Title 22, Division 9, Sections 100165 and 100167
- III. POLICY:
 - A. County accredited paramedics shall carry the ALS/BLS inventory consistent with the FIRESCOPE FEMP position description. Reasonable variations may occur; however, any exceptions shall have prior approval of the VCEMSA. The equipment lists are a scaled down version of standard inventory in order to meet workable/packable weight limitations (45 lbs including wildland safety gear, divided between a two person team. Weight limit to include the Personal Pack Inventory as outlined in FireScope).
 - It will not be possible to maintain standard ALS minimums on the fireline. The attached ALS inventory essentially prioritizes critical and probable fireline needs.
 - VCEMS accredited paramedics may function within their scope of practice, when serving in an authorized capacity assignment, as an agent of their authorized ALS fire agency.

IV. PROCEDURE:

- A. Under the authority of State regulations, a paramedic may render ALS care during emergency operations as long as the following conditions are met:
 - 1. The paramedic is currently licensed by the State of California and is accredited by the Ventura County EMS Agency.
 - The paramedic is currently employed with a Ventura County ALS provider and possesses the requisite wildland fireline skills and equipment.
 - The paramedic practices within the treatment guidelines set forth in VCEMSA policies and procedures manual. Paramedics operating in the capacity of a fireline paramedic (FEMP) shall follow VCEMSA communication failure protocol.
 - The FEMP is expected to check in and obtain a briefing from the Logistics Section Chief, or the Medical Unit Leader (MEDL) if established at the Wildfire Incident.
 - Documentation of patient care will be completed as per VCEMSA policy 1000.
 - Documentation of patient care will be submitted to incident host agencies. A VCePCR shall be completed for all ALS patients contacted, and shall be completed by the FEMP upon return to camp, or as soon as practical.
 - Continuous Quality Improvement activities shall be in accordance with VCEMSA standards.

APPENDIX A

FIRELINE EMERGENCY MEDICAL TECHNICIAN **BASIC LIFE SUPPORT (BLS)** PACK INVENTORY

Airway, NPA Kit (1)	Mask, Face, Disposable w/eye shield (1)
Airway, OPA Kit (1)	Mylar Thermal Survival Blanket (2)
Bag Valve Mask (1)	Pad, Writing (1)
Bandage, Sterile 4 x 4 (6)	Pen and Pencil (1 ea.)
Bandage, Triangular (2)	Pen Light (1)
Biohazard Bag (2)	Petroleum Dressing (2)
Burn Sheet (2)	Shears (1)
Cervical Collar, Adjustable (1)	Sphygmomanometer (1)
Coban Wraps/Ace Bandage (2 ea.)	Splint, Moldable (1)
Cold Pack (3)	Splinter Kit (1)
Commercially Available Tourniquet (1)	
Dressing, Multi-Trauma (4)	Stethoscope (1)
Exam Gloves	Suction, Manual Device (1)
Eye Wash (1 bottle)	Tape, 1 inch, Cloth (2 rolls)
Glucose, Oral (1 Tube)	Triage Tags (6)
Kerlix, Kling, 4.5, Sterile (2)	Triangular Dressing with Pin (2)
Digital Thermometer (1)	

APPENDIX B

FIRELINE EMERGENCY MEDICAL TECHNICIAN **PARAMEDIC (ALS)** PACK INVENTORY **IN ADDITION TO THE BASIC LIFE SUPPORT INVENTORY, THE FOLLOWING ADDITIONAL ITEMS OR EQUIVALENTS SHALL BE CARRIED BY THE FEMP

ALS AIRWAY EQUIPMENT:

Endotracheal Intubation Equipment (6.0, 7.5 ET – Mac 4, Miller 4, stylette and handle)	ETT Verification Device
End Tidal CO2 Detector	Needle Thoracostomy Kit (1)
	Pulse Oximeter (Optional)
ETT Restraint	Rescue Airway (1)

IV/MEDICATION ADMIN SUPPLIES:

1 ml TB Syringe (2)	20 ga. IV Catheter (2)
10 ml Syringe (2)	IV Site Protector (2)
18 ga. Needle (4)	IV Administration Set-Macro-Drip (2)
25 ga. Needle (2)	Alcohol Preps (6)
Adult EZ-IO Kit (1)	Betadine Swabs (4)
	E-Z IO Stabilizer
EZ Connect tubing (2)	Glucometer Test Strips (4)
25 mm EZ-IO Needle (1)	Lancet (4)
45 mm EZ-IO Needle (1)	Razor (1)
14 ga. IV Catheter (2)	Tape (1)
16 ga. IV Catheter (2)	Tourniquet (2)
18 ga. IV Catheter (2)	

MISCELLANEOUS:

AMA Paper Forms (3)	PCR Paper Forms (6)
FEMP Pack Inventory Sheet (1)	Sharps Container – Small(1)
Narcotic Storage (per agency policy)	

BIOMEDICAL EQUIPMENT:

Defibrillator Electrodes (2)	Glucometer (1)
Defibrillator with ECG waveform display (1)	

MEDICATIONS:

Amiodarone 50 mg/ml 3	ml (2)	Epinephrine 1:1,000 1 mg (4)
Albuterol – 90mcg/puff (1 MDI) with	Glucagon 1 mg/unit (1)
Spacer Device		
Aspirin-Chewable (1 Bot	tle)	Midazolam 20 mg
Atropine Sulfate 1mg (2))	Morphine Sulfate 10 mg/ml (6)
		Naloxone – 2mg (2)
Dextrose 50% 25 G. Pre	e-Load (1)	Nitroglycerin 1/150 gr (1)
Diphenhydramine 50 mg	1 (4)	Saline 0.9% IV 1,000 ml – Can be configured into two 500 ml or four 250 ml
Epinephrine 1:10,000 1r	ng (2)	5% Dextrose in Water, 50 ml (1)