To: ALL VENTURA COUNTY EMS POLICY MANUAL HOLDERS

DATE: October 28, 2020

Policy Status	Policy #	Title/New Title	Notes
			Updated Ojai hospital and specialty care designations for
Replace	0400	Ventura County Emergency Departments	each facility.
Replace	0504	ALS and BLS Equipment and Supplies	Added iGel, updated Dextrose
Replace	0605	Interfacility Transfer of Patients	Added language regarding ambulance personnel call receiving facility.
Replace	0626	CHEMPACK Deployment	Updated policy to reflect current medication counts and change from CDC to ASPR.
Replace	0705	Treatment Protocols Cover	Added 705.29 to table of contents
Replace	705.02	Allergic Reaction / Anaphylaxis	Benadryl limited to ≥ 6 months
Replace	705.03	Altered Neurologic Function	D5 & D25 removed. D50 removed from pediatrics, will remain for adults until current supply is used.
Replace	705.04	Behavioral Emergencies	IV/IO Midazolam route added for pediatrics
Replace	705.08	Cardiac Arrest VF-VT	Standardized Joules dosing, pediatric Amio changed to 5 mg/kg x 3, MgSO4 for pediatrics updated to 50 mg/kg.
Replace	705.11	Crush Injury	All moved to standing orders, Comm failure removed
Replace	705.15	Nausea Vomiting	Zofran included down to 6 months
Replace	705.17	Nerve Agent / Organophosphate Poisoning	IV/IO Midazolam route added for pediatrics
Replace	705.18	Overdose	Benadryl limited to ≥ 6 months, IV/IO Midazolam route added for pediatrics, Midazolam standing order
Replace	705.19	Pain Control	Adjusted to accommodate pediatric Zofran change
Replace	705.20	Seizures	MgSO4 changed to 4g over 10 min from 2g MUST repeat IV/IO Midazolam route added for pediatrics
Replace	705.21	SOB - Pulmonary Edema	Comm Failure removed, all standing orders
Replace	705.22	SOB - Wheezes	Severe vs Mild croup differentiated Nebulized and push dose Epi standing orders
Replace	705.23	Supraventricular Tachycardia	Standardized Cardioversion Joules Dosing
Replace	705.24	Symptomatic Bradycardia	Repeat Atropine added, NS Bolus added
Replace	705.25	VTach Sustained – Not in Arrest	Standardized Cardioversion Joules Dosing MgSO4 for pediatrics updated to 50 mg/kg over 5 min
Replace	705.28	Smoke Inhalation	Smoke inhalation with cardiac arrest added as indication for Hydroxocobalamin
			New policy authorizing Paramedics to administer Influenza and COVID-19 vaccine during ongoing PH
ADD	0737	Public Health Emergency Vaccine Administration	Emergency.
Replace	1000	Documentation of Prehospital Care	Handtevy requirement added
Replace	1400	Trauma Care System – General Provisions	

County of Ventura Department of Public Health

Emergency Medical Services Policies and Procedures

Policy Status	Policy #	Title/New Title	Notes
Replace	1402	Trauma Committees	Reviewed with no changes
			No changes to content of policy. Only attached existing
Replace	1404	Guidelines for IFT of Patients to a Trauma Center	transfer algorithm to existing policy.
Replace	1406	Trauma Center Standards	

COUNTY OF VENTL		POLI	CIES A	ND PROCEDURES
HEALTH CARE AGE	NCY	EMERGEN	NCY M	EDICAL SERVICES
	Policy Title:			Policy Number:
Vent			400	
APPROVED: Administration:	Steven L. Carroll, Paramedic		Date:	December 1, 2020
APPROVED: Medical Director:	Daniel Shepherd, MD		Date:	December 1, 2020
Origination Date:	October, 1984			
Date Revised:	August 13, 2020	Effective Da	ite:	December 1, 2020
Date Last Reviewed:	5	2		
Next Review Date:	August 31, 2023			

Base Hospitals Basic Emergency Departments

Los Robles Regional Medical Center 215 W. Janss Road Thousand Oaks, CA 91360 (805) 370-4435

St. John's Regional Medical Center 1600 N. Rose Avenue Oxnard, CA 93030 (805) 988-2663

Adventist Health Simi Valley 2975 N. Sycamore Dr Simi Valley, CA 93065 (805) 955-6100

Ventura County Medical Center 300 Hillmont Avenue Ventura, CA 93003 (805) 652-6165

STEMI Receiving Centers

Adventist Health Simi Valley Community Memorial Hospital Los Robles Regional Medical Center St. John's Regional Medical Center

Trauma Centers-Level II

Ventura County Medical Center Los Robles Regional Medical Center

Receiving Hospitals Basic Emergency Departments

Community Memorial Hospital 147 No. Brent Street Ventura, CA 93003 (805) 652-5018

St. John's Pleasant Valley Hospital 2309 Antonio Avenue Camarillo, CA 93010 (805) 389-5811

Santa Paula Hospital 825 N. 10th Street Santa Paula, CA 93060 (805) 933-8663

Receiving Hospital Standby Emergency Department

Ojai Valley Community Hospital 1306 Maricopa Highway Ojai, CA 93023 (805) 640-2260

Acute Stroke Centers

Adventist Health Simi Valley Community Memorial Hospital Los Robles Regional Medical Center St. John's Pleasant Valley Hospital St. John's Regional Medical Center Ventura County Medical Center

Thrombectomy Capable Acute Stroke Centers

St. John's Regional Medical Center Los Robles Regional Medical Center COUNTY OF VENTURA HEALTH CARE AGENCY EMERGENCY MEDICAL SERVICES POLICIES AND PROCEDURES

			LICIES AND PROCEDURES
	Policy Title:		Policy Number:
BLS And ALS Unit Equipment And Supplies			504
APPROVED:			
Administration:	Steven L. Carroll, Paramedic		Date: December 1, 2020
APPROVED:			
Medical Director	Daniel Shepherd, MD		Date: December 1, 2020
Origination Date:	May 24, 1987		
Date Revised:	October 15, 2020	Effective Da	ate: December 1, 2020
Last Reviewed:	October 15, 2020		
Review Date:	October 31, 2021		

- 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.

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

	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			•	-
Clear masks in the following sizes: Adult Child Infant Neonate	1 each	1 each	1 each	1 adult 1 infant
Bag valve units Adult (1,000 mL) Child (500 mL) Infant (240 mL)	1 each	1 each	1 each	1 adult
Nasal cannula Adult	3	3	3	3
Nasopharyngeal airway (adult and child or equivalent)	1 each	1 each	1 each	1 each
Continuous positive airway pressure (CPAP) device Nerve Agent Antidote Kit	1 per size 9	1 per size 9	1 per size 9	1 per size 0
Blood glucose determination devices (optional for non-911 BLS units)	2	1	1	1
Oral glucose 15gm unit dose	1	1	1	1
Oropharyngeal Airways Adult Child Infant Newborn	1 each size	1 each size	1 each size	1 each size
Oxygen with appropriate adjuncts (portability required)	10 L/min for 20 minutes	10 L/min for 20 mins.	10 L/min for 20 mins.	10 L/min for 20 mins.
Portable suction equipment	1	1	1	1
Transparent oxygen_masks Adult nonrebreather Child Infant	3 3 2 1	2 2 2	2 2 2	2 2 2
Bandage scissors Bandages		1	1	1
 4"x4" sterile compresses or equivalent 2",3",4" or 6" roller bandages 10"x 30" or larger dressing 	12 6	12 2 0	12 6 2	5 4 2
Blood pressure cuffs Thigh Adult Child Infant	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
Emesis basin/bag	1	1	1	1
Flashlight	1	1	1	1
Traction splint or equivalent device	1	1	1	1
Pneumatic or rigid splints (capable of splinting all extremities)	4	4	4	4
Potable water or saline solution	4 liters	4 liters	4 liters	4 liters
Cervical spine immobilization device	2	2	2	2
Spinal immobilization devices				

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

	ALS / BLS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	Search and Rescue Minimum Amounts
KED or equivalent	1	1	1	1
60" minimum with at least 3 sets of straps	1	0	1	
Sterile obstetrical kit	1	1	1	1
Tongue depressor	4	4	4	4
Cold packs	4	4	4	4
Tourniquet	1	1	1	1
1 mL,5 mL, and 10 mL syringes with IM needles	4	4	4	4
Automated External Defibrillator (if not equipped with ALS monitor/defibrillator)	1	1	1	1
Personal Protective Equipment per State Guideline #216				
Rescue helmet	2	1	0	0
EMS jacket	2	1	0	0
Work goggles	2	1	0	0
Tyvek suit	2 L / 2 XXL	1 L / 1 XXL	0	0
Tychem hooded suit	2 L / 2 XXL	1 L / 1 XXL	0	0
Nitrile gloves	1 Med / 1 XL	1 Med / 1 XL	0	0
Disposable footwear covers	1 Box	1 Box	0	0
Leather work gloves	3 L Sets	1 L Set	0	0
Field operations guide	1	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	1
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.	1 361	U	U	1 361
Soft Ankle and wrist restraints.	1	0	0	0
Sheets, pillow cases, blankets and towels for each stretcher or ambulance cot, and two pillows for each ambulance	1	0	0	0
Bedpan	1	0	0	0
Urinal	1	0	0	0

Policy 504: ALS and BLS Unit Equipment and Supplies Page 4 of 5

	ALS / BLS Unit Minimum Amount	PSV/CCT Minimum Amount	FR/ALS Minimum Amount	Search and Rescue Minimum Amounts
C. ALS UNIT REQUIREMENTS				
Cellular telephone	1	1	1	1
Supraglottic Airway Devices: I-Gel with passive oxygenation port Sizes 1, 1.5, 2, 2.5, 3, 4, 5	2 of each	1 of each	1 of each	1 of each
I-Gel Airway Support Straps	2	2	2	2
Arm Boards 9"				2
9" 18"	3	0	1	0 0
Cardiac and waveform capnography monitoring equipment	1	1	1	1
CO ₂ monitor	•		•	•
Infant (<0.5 mL sidestream or <1 mL mainstream adaptor) Pediatric / Adult (6.6 mL sidestream or < 5 mL mainstream adaptor)	2 of each	2 of each	2 of each	2 of each
Colorimetric CO2 Detector Device	1	1	1	1
Defibrillator pads or gel	3	3	3	1 adult – No Peds.
Defibrillator w/adult and pediatric paddles/pads	1	1	1	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 Normal saline solution, 500 ml Normal saline solution, 1000 ml 	2 2 6	1 1 2	1 1 4	1 1 3
IV admin set - macrodrip	4	1	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, 4Straight blade#1, 2, 3	1 each 1 each	1 each 1 each	1 each 1 each	1 each 1 each
Magill forceps	1	1	1	1
Adult Pediatric	1	1	1	1
Intranasal mucosal atomization device	2	2	2	2
Nebulizer	2	2	2	2
Nebulizer with in-line adapter	1	1	1	1
Needle Thoracostomy kit	2	2	2	2
Pediatric length and weight tape	1	1	1	1
SpO ₂ Monitor (If not attached to cardiac monitor)	1	1	1	1
OPTIONAL ALS EQUIPMENT (No minimums apply)				
Flexible intubation stylet				
Cyanide Antidote Kit				

Policy 504: ALS and BLS Unit Equipment and 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					
Adenosine, 6 mg		3	3	3	3
Albuterol 2.5mg/3ml		6	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		6	3	6	3
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, AND		2	1	2	1
• 10% 250 ml, OR		5	2	2	2
• 50%, 25 GM/50 Epinephrine		2	1	2	1
Epinephrine , 1ma/ml			-	-	-
1 mL ampule / vial, OR	2	5 4	5	5	5
 Adult auto-injector (0.3 mg), AND 	2	4	2	2	2
 Peds auto-injector (0.15 mg) Epinephrine 0.1mg/ml (1 mg/10ml preparation) 		6	3	6	4
Epinephrine 0.1mg/ml (1 mg/10ml preparation) Fentanyl, 50 mcg/mL		2	2	2	2
Glucagon, 1 mg/ml		2	1	2	1
Lidocaine, 100 mg/5ml		2	2	2	2
		4	4	4	4
Magnesium sulfate, 1 gm per 2 ml		5 mg/ml	5 mg/ml	5 mg/ml	5 mg/ml
Midazolam Hydrochloride (Versed)		2 vials	2 vials	2 vials	2 vials
Morphine sulfate, 10 mg/ml (Only required during a Fentanyl shortage)		2	2	2	2
Naloxone Hydrochloride (Narcan)			I	I	I
 IN concentration - 4 mg in 0.1 mL (optional for ALS and non-911 BLS units), OR 	2	5	5	5	5
 IM / IV concentration – 2 mg in 2 mL preload (optional for non-911 BLS units) 	2	5	5	5	5
Nitroglycerine preparations, 0.4 mg		1 bottle	1 bottle	1 bottle	1 bottle
Normal saline, 10 ml		2	2	2	2
Ondansetron (Zofran) 4 mg IV single use vial 4 mg oral 		4 4	4 4	4 4	4
Sodium Bicarbonate, 1 mEq/mL		2	1	1	1
Tranexamic Acid (TXA) 1 gm/10 mL		2	1	1	1

COUNTY OF VENTURA EM			GENCY MEDICAL SERVICES
HEALTH CARE AGE	NCY	Р	OLICIES AND PROCEDURES
	Policy Title:		Policy Number
	Interfacility Transfer of Patients		605
APPROVED:	H-C-U		Data: December 1, 2020
Administration:	Steven L. Carroll, Paramedic		Date: December 1, 2020
APPROVED:	DZ-SIMO		Date: December 1, 2020
Medical Director:	Daniel Shepherd, M.D.		Date: December 1, 2020
Origination Date:	July 26, 1991		
Date Revised:	October 15, 2020	Effective Deter	December 4, 0000
Date Last Reviewed:	October 15, 2020	Effective Date:	December 1, 2020
Next Review Date:	October 31, 2022		

- I. PURPOSE: To define levels of interfacility transfer and to assure that patients requiring interfacility transfer are accompanied by personnel capable and authorized to provide care.
- II. AUTHORITY: Health and Safety Code, Sections 1797.218, 1797.220, and 1798.
- III. POLICY: A patient shall be transferred according to his/her medical condition and accompanied by EMS personnel whose training meets the medical needs of the patient during interfacility transfer. The transferring physician shall be responsible for determining the medical need for transfer and for arranging the transfer. The patient shall not be transferred to another facility until the receiving hospital and physician consent to accept the patient. The transferring physician retains responsibility for the patient until care is assumed at the receiving hospital.

If a patient requires care during an interfacility transfer which is beyond the scope of practice of an EMT or paramedic or requires specialized equipment for which an EMT or paramedic is untrained or unauthorized to operate, and it is medically necessary to transfer the patient, a registered nurse or physician shall accompany the patient. If a registered nurse accompanies the patient, appropriate orders for care during the transfer shall be written by the transferring physician.

- IV. TRANSFER RESPONSIBILITIES
 - A. All Hospitals shall:
 - 1. Establish their own written transfer policy clearly defining administrative and professional responsibilities.
 - 2. Have written transfer agreements with hospitals with specialty services, and county hospitals.
 - B. Transferring Hospital
 - 1. Maintains responsibility for patient until patient care is assumed at receiving facility.

- 2. Assures that an appropriate vehicle, equipment and level of personnel is used in the transfer.
- C. Transferring Physician
 - 1. Maintains responsibility for patient until patient care is assumed at receiving facility.
 - 2. Determines level of medical assistance to be provided for the patient during transfer.
 - 3. Receives confirmation from the receiving physician and receiving hospital that appropriate diagnostic and/or treatment services are available to treat the patient's condition and that appropriate space, equipment and personnel are available prior to the transfer.
- D. Receiving Physician
 - 1. Makes suitable arrangements for the care of the patient at the receiving hospital.
 - 2. Determines and confirms that appropriate diagnostic and/or treatment services are available to treat the patient's condition and that appropriate space, equipment and personnel are available prior to the transfer, in conjunction with the transferring physician.
- E. Transportation Provider
 - The patient being transferred must be provided with appropriate medical care, including qualified personnel and appropriate equipment, throughout the transfer process. The personnel and equipment provided by the transporting agency shall comply with local EMS agency protocols.
 - Interfacility transport within the jurisdiction of VC EMS shall be performed by an ALS or BLS ambulance.
 - a. BLS transfers shall be done in accordance with EMT Scope of Practice per Policy 300
 - ALS transfers shall be done in accordance with Paramedic Scope of Practice per Policy 310

IV. PROCEDURE:

- A. Non-Emergency Transfers
 - Non-emergency transfers shall be transported in a manner which allows the provider to comply with response time requirements.
- B. Emergency Transfers

Emergency transfers require documentation by the transferring hospital that the condition of the patient medically necessitates emergency transfer. Provider agency dispatchers shall confirm that this need exists when transferring hospital personnel make the request for the transfer.

C. Transferring process

1. The transferring physician will determine the patient's resource requirements and request an inter-facility ALS, or BLS transfer unit using the following guidelines:

Patie	nt Condition/Treatment	EMT	Paramedic	RN/RT/MD
a.	Vital signs stable	х		
b.	Oxygen by mask or cannula	х		
C.	Peripheral IV glucose or isotonic balanced salt	х		
	solutions running			
d.	Continuous respiratory assistance needed		х	
	(paramedic scope management)			
e.	Peripheral IV medications running or		х	
	anticipated (paramedic scope)			
f.	Paramedic level interventions		Х	
g.	Central IV line in place		х	
h.	Respiratory assistance needed (outside			х
	paramedic scope of practice)			
i.	IV Medications (outside paramedic scope of			х
	practice)			
j.	PA line in place			Х
k.	Arterial line in place			Х
Ι.	Temporary pacemaker in place			х
m.	ICP line in place			х
n.	IABP in place			х
0.	Chest tube		х	
р.	IV Pump		х	
q.	Standing Orders Written by Transferring			х
	Facility MD			
r.	Medical interventions planned or anticipated			х
	(outside paramedic scope of practice)			

- 2. The transferring hospital advises the provider of the following:
 - a. Patient's name
 - b. Diagnosis/level of acuity
 - c. Destination
 - d. Transfer date and time
 - e. Unit/Department transferring the patient
 - f. Special equipment with patient
 - g. Hospital personnel attending patient
 - h. Patient medications

- 3. The transferring physician and nurse will complete documentation of the medical record. All test results, X-ray, and other patient data, as well as all pertinent transfer forms, will be copied and sent with the patient at the time of transfer. If data are not available at the time of transfer, such data will be telephoned to the transfer liaison at the receiving facility and then sent by FAX or mail as soon thereafter as possible.
- 4. Upon departure, the Transferring Facility will call the Receiving Facility and confirm arrangements for receiving the patient and provide an estimated time of arrival (ETA).
- 5. The Transferring Facility will provide:
 - a. A verbal report appropriate for patient condition
 - b. Review of written orders, including DNAR status.
 - c. A completed transfer form from Transferring Facility.

V. COMMUNICATION

A. For patients with time sensitive conditions requiring transfer for emergency evaluation and/or treatment (i.e. STEMI, Stroke, Trauma, etc.) the ambulance personnel will contact the receiving facility advising of ETA and any change in patient condition. The intent is to provide the receiving facility with information for appropriate resources to be initiated.

VI. DOCUMENTATION

A. Documentation of Care for Interfacility transfers will be done in accordance to Policy 1000.

i					
COUNTY OF VENTURA			EMERGENCY MEDICAL SERVICES		
HEALTH CARE AGE	NCY	PO	LICIES AND PROCEDURES		
	Policy Title:		Policy Number		
	CHEMPACK Deployment		626		
APPROVED:	MECH.		Date: December 1, 2020		
Administration:	Steven L. Carroll, Paramedic		Date. December 1, 2020		
APPROVED:	DZ S, MD		Date: December 1, 2020		
Medical Director:	Daniel Shepherd, MD		Date: December 1, 2020		
Origination Date:	February 2, 2010				
Date Revised:	August 13, 2020	Effec	tive Date: December 1, 2020		
Date Last Reviewed:	August 13, 2020				
Review Date:	August 31, 2022				

- I. PURPOSE: This policy establishes guidelines for the deployment and use of the CHEMPACK by pre-hospital care providers in response to incidents involving suspected nerve agent exposure.
- II. AUTHORITY: Health and Safety Code, Division 2.5, Sections 1797.220 & 1798.
- III. DEFINITION: The Assistant Secretary for Preparedness and Response (ASPR) has established the "CHEMPACK" project for the forward placement of sustainable repositories of nerve agent antidotes in numerous locations throughout the United States, so that they can be immediately accessible for the treatment of exposed and affected persons.

There are two types of CHEMPACKs available. The "Hospital CHEMPACK" is designed for hospital and healthcare provider use, consisting mostly of single dose vials and a small quantity of auto-injectors. The "EMS CHEMPACK" is designed for field use and contains mostly auto-injectors. Ventura County has elected to only host EMS CHEMPACKs.

Content of CHEMPACKs						
Unit Pack	Units	Cases	Quantity			
Pralidoxime 300 mg Auto-Injector	240	5	1200			
Atropine Sulfate 0.4 mg/ml 20 ml	100	1	100			
Pralidoxime 1 Gm inj. 20 ml	276	1	276			
Atropen 0.5 mg	144	1	144			
Atropen 1.0 mg	144	1	144			
Atropen 2 mg	136	5	680			

Diazepam 5 mg/ml auto-injector	150	2	300
Midazolam 5mg/mL vial, 10mL	50	1	50
Sterile water for inj (SWFI) 20cc vials	100	2	200
Sensaphone®2050	1	1	1
Satco B DEA Container	1	1	1

- IV. POLICY: Actual location of the CHEMPACK will be maintained as confidential. This policy outlines the responsibilities and the operational requirements to pre-position or utilize a cache within the Ventura County Operational Area.
 In the case of an accidental or deliberate release of a nerve agent or potent organophosphate compound, time will be of the essence to minimize morbidity and mortality. This is a key consideration in cache placement, notification, transportation and administration.
- V. PROCEDURE: CHEMPACK Deployment and Movement
 - A. Authorization to Open or Forward Deploy a CHEMPACK Container Emergency Incident Based:
 - The Ventura County EMS Agency shall be contacted for authorization to open or forward deploy any CHEMPACK within the Ventura County Operational Area. The EMS Agency Duty Officer can be accessed on a 24-hour basis by calling the Ventura County Fire Department Fire Communications Center at 805-388-4279.
 - 2. In the event that return contact by the EMS Agency Duty Officer is delayed and the situation clearly warrants immediate action, the CHEMPACK provider may elect to open or forward deploy the CHEMPACK for an emergency incident. Attempts to contact the EMS Agency Duty Officer shall be made in all cases through the Fire Communications Center.
 - 3. The EMS Agency may request deployment of a CHEMPACK to a location within the Ventura County Operational Area or outside the operational area under a medical-health mutual aid request. The CHEMPACK provider shall make CHEMPACK resources immediately available upon request by the EMS Agency.
 - 4. The EMS Agency shall immediately notify the Region 1 Regional Disaster Medical Health Specialist (RDMHS) of any CHEMPACK movement from

fixed locations or opening of a CHEMPACK container. The RDMHS will ensure that California Department of Health Services / Emergency Preparedness Office (DHS/EPO) is notified promptly of any movement or deployment of CHEMPACK material. DHS/EPO will in turn notify ASPR.

- 5. Qualifying Events Emergency Deployment: CHEMPACK material may be accessed, deployed or used only when it is determined that an accidental or intentional nerve agent or other organophosphate release has threatened the public health security of a community. A seal will be broken and material used only when it is determined that other means to save human life will not be sufficient. Authorization to deploy, break the seal on, or move a CHEMPACK container from its specified location will be limited to any of the following events:
 - Release of a nerve agent or potent organophosphate with human effects or immediate threats too great to adequately manage with other pharmaceutical supplies available.
 - Large or unusual occurrence of patients presenting with signs and/or symptoms consistent with nerve agent or organophosphate exposure or intoxication.
 - c. A credible threat of an imminent event of a magnitude likely to require the assets of the CHEMPACK.
 - An event with potential to create a nerve agent or
 organophosphate release with human exposure (e.g. a
 transportation accident with fire or loss of container integrity).
 - e. Any mutual aid request from another region or neighboring state in which CHEMPACK assets are being deployed or staged.
 - f. Any event which, in the judgment of the County Health Officer, EMS Agency Medical Director, or Medical & Health Operational Area Coordinator (MHOAC), justifies the deployment of CHEMPACK supplies.
 - g. A physical threat to the CHEMPACK at the fixed location (i.e. fire, theft, flood).
- B. Authorization to Forward Deploy a CHEMPACK Container Event or Threat Planning:

- The EMS Agency may authorize movement of a CHEMPACK container and contents to any location within the Ventura County Operational Area, or outside the area under a medical-health mutual aid request. The EMS Agency will notify the Region 1 RDMHS in advance of any pre-planned CHEMPACK container movement for a particular event or threat.
- 2. Qualifying Events Pre-Emptive Deployment: Pre-emptive movement is the relocation of a sealed CHEMPACK container and its contents to a site providing for levels of environmental and security controls generally identical to those required for its regular placement site. Breaking the seal, removing any contents, or moving the cache to a location without those controls constitutes deployment, not pre-emptive movement, and must meet deployment conditions.
 - Pre-emptive movements may be requested to the EMS Agency by any emergency medical, public health, emergency management, hazardous materials or other related agency in preparation for, or response to, a planned or occurring event deemed appropriate for forward CHEMPACK placement.
 - Any such request must be made to the RDMHS for approval.
 Unless an imminent or ongoing emergency, each request must be made at least 48 hours before the movement. The RDMHS will refer any request to the RDMHC and to DHS/EPO for consideration. If an RDMHS is unavailable to take timely action on a movement request, that request may be made to DHS/EPO via the State Warning Center.
- C. Post Event Actions:
 - Incident documentation should begin as soon as possible following any emergency operation involving CHEMPACK assets by the EMS Agency. The documentation must include the following:
 - a. A thorough description of the incident or event involving CHEMPACK resources.
 - b. A list of the approving officials.
 - c. An inventory of used and unused CHEMPACK contents.
 - d. An after-action critique of CHEMPACK deployment effectiveness.

2. The CHEMPACK container and any unused contents will be returned to the CHEMPACK Provider and will be resealed. The EMS Agency will coordinate resupply with the Region 1 RDMHS, DHS/EPO and the ASPR as appropriate. Currently the CHEMPACK Project is not funded to replace CHEMPACK supplies used for an emergency event. However, requests for replenishment of CHEMPACK supplies should be made to the SNS Program as soon as possible after their use. The SNS Program will attempt to secure federal funding to replace and restock supplies used in response to an emergency event

COUNTY OF VENTU	JRA	EMERG	ENCY MEDICAL SERVICES
HEALTH CARE AGE	NCY	PO	LICIES AND PROCEDURES
	Policy Title:		Policy Number
	Treatment Protocols		705
APPROVED:	Dz S.mo		Data: December 1, 2020
Medical Director:	Daniel Shepherd, M.D.		Date: December 1, 2020
Origination Date:	January 1988		
Date Revised:	See individual algorithms	Effective Date: As in	dicated on individual algorithms
Date Last Revised:	See individual algorithms	Ellective Date. As in	dicated on individual algorithms
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 14 or greater (14th birthday and older)
 - b. Pediatric: Age less than 14 (up to 14th birthday)
 - B. Exceptions to the pediatric definition rule are in the following policies:
 - 1. Policy 603: Refusal of EMS Services
 - 2. Policy 606: Withholding or Termination of Resuscitation and Determination of Death
 - 3. Policy 705.14: Hypovolemic Shock
 - 4. Policy 710: Airway Management
 - 5. Policy 717: Intraosseous Infusion
 - 6. Policy 734: Tranexamic Acid Administration
 - 7. Policy 1405: Trauma Triage and Destination Criteria
 - 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.

- A. 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 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 Traumatic Cardiac Arrest

ADULT	PEDIATRIC
	ocedures
 Administer oxygen as indicated Anaphylaxis: Assist patient with prescribed epinephrine auto-injector, or If under 30 kg – Epinephrine 1 mg/mL IM - 0.15 mg via auto-injector, pre-filled syringe, or syring May repeat x 1 in 5 minutes if patient remains in distress If 30 kg and over – Epinephrine 1mg/mL IM - 0.3mg via auto-injector, pre-filled syringe, or syringe/ May Repeat x 1 in 5 minutes if patient remains in distress 	vial draw
V/IO access	ding Orders
Nlergic Reaction: Benadryl o IV/IO/IM – 50 mg	Allergic Reaction: For patients ≥ 6 months of age BenadryI
Anaphylaxis without shock:	Anaphylaxis without Shock:
 Epinephrine 1 mg/mL, if not already administered by BLS personnel IM - 0.3 mg May repeat in 5 minutes if patient remains in distress Albuterol (if wheezing is present) Nebulizer – 5 mg/6 mL May repeat as needed 	 Epinephrine 1 mg/mL, if not already administered by BLS personnel IM – 0.01 mg/kg up to 0.3mg May repeat q 5 minutes, if patient remains in distress Albuterol (if wheezing is present) Patient ≤ 30 kg Nebulizer – 2.5 mg/3 mL Repeat as needed
 Inaphylaxis with Shock: Epinephrine 10mcg/mL 1mL (10mcg) every 2 minutes, slow IV/IO push Titrate to SBP of greater than or equal to 90mm/Hg Initiate 2nd IV/IO Normal Saline IV/IO bolus – 1 Liter May report x 1 op indicated 	 Patient > 30kg Nebulizer – 5 mg/6 MI Repeat as needed Anaphylaxis with Shock: Epinephrine 10mcg/mL 0.1mL/kg (1mcg/kg) every 2 minutes, slow IV/IO pus Max single dose of 1mL or 10mcg Titrate to SBP of greater than or equal to 80 mm/Hg Initiate 2nd IV if possible or establish IO
 May repeat x 1 as indicated 	Normal Saline o IV/IO bolus – 20 mL/kg o May repeat x 1 as indicated
	al Orders Only
Consult with ED Physician	for further treatment measures

- or prior to IV/IO epinephrine. Epinephrine is the priority in patients with anaphylaxis. Refer to VCEMS Policy 735 for additional information on preparing push dose epinephrine solution. •

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Altered Neurologic Function		
ADULT	PEDIATRIC	
BLS Procedures		
If suspected stroke, refer to VC EMS Policy 705.26 – Suspected Stroke Administer oxygen as indicated Determine blood glucose level If less than 60 mg/dl • Oral Glucose – patient must be awake and able to swallow with a gag reflex intact • PO 15 g * Treat as above if you have clinical suspicion of hypoglycemia and are unable to obtain glucose level due to glucometer malfunction		
or error reading. ALS Prior to	Base Hospital Contact	
IV/IO Access	IV/IO Access	
Determine Blood Glucose level, if not already perform by BLS personnel or post oral glucose administration	ed Determine Blood Glucose level, if not already performed by BLS personnel or post oral glucose administration	
If less than 60 mg/dl	If less than 60 mg/dl	
• D10W - Preferred	• D10W -	
 IV/IOPB-100 mL (10 g)-Rapid Infusion D50W 	 IV/IOPB-5 mL/kg-Rapid Infusion Max 100 mL 	
o IV/IO − 25 mL (12.5 g)		
	Glucagon (If no IV/IO access)	
 Glucagon (If no IV access) IM – 1 mg 	o IM – 0.1 mL/kg o Max 1 mg	
Recheck Blood Glucose level 5 min after Dextrose, or 10 min Glucagon administration	after Recheck Blood Glucose level 5 min after Dextrose or 10 min after Glucagon administration	
If still less than60 mg/dl	If still less than 60 mg/dl	
D10W - Preferred	• D10W -	
 IV/IOPB-150 mL (15 g)-Rapid Infusion D50W 	 IV/IOPB-7.5 mL/kg-Rapid Infusion Max 150 mL 	
• IV/IO − 25 mL (12.5 g)		
* Treat as above if you have clinical suspicion of hypoglycem	* Treat as above if you have clinical suspicion of hypoglycemia	
and are unable to obtain glucose level due to glucometer	and are unable to obtain glucose level due to glucometer	
malfunction or error reading.	malfunction or error reading.	
Base Hospital Orders only		
Consult with ED Physician for further treatment measures		
Additional Information:		
	long-acting insulin preparations have a long duration of action, sometimes up to	
	ecline transport MUST be warned about the risk of repeat hypoglycemia for up ient's death. If the patient continues to decline further care, every effort must be	
made to have the patient speak to the ED Physician prior to leaving the scene.		
If patient has an ALOC and Blood Glucose level is greater than 60 mg/dl, consider alternate causes:		
A - Alcohol O - Overdose	I - Infection	
E - Epilepsy U - Uremia	P - Psychiatric	
I - Insulin T - Trauma	S – Stroke	

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Behavioral Emergencies		
ADULT	PEDIATRIC	
ALS Prior to Base Hospital Contact		
IV/IO Access	IV/IO Access For Extreme Agitation	
 For Extreme Agitation Midazolam IM – 5mg or 10 mg (5mg/ml) IV/IO – 2 mg Repeat 1 mg q 2 min as needed Max 5 mg 	 Midazolam IM – 0.1 mg/kg Max 5 mg IV/IO – 0.1 mg/kg Repeat q 2 min as needed Max single dose 2 mg Max total dose 5 mg 	
When safe to perform, determine blood glucose level	When safe to perform, determine blood glucose level	
	al Orders only or further treatment measures	
 Additional Information: If patient refuses care and transport, and that refusal is because of "mental disorder", consider having patient taken into custody according to Welfare and Institutions Code Section 5150 or 5585 "Menta disorders" do not generally include alcohol or drug intoxication, brain injury, hypoxemia, hypoglycemia, o similar causes. Refer to VC EMS pre-hospital provider fact sheet for suspected excited delirium patients. Be sure to consider and rule out other possible causes or behavior (traumatic or medical). Use of restraints (physical or chemical) shall be documented and monitored in accordance with VCEMS policy 732 Welfare and Institutions Code Section 5585: Known as the Children's Civil Commitment and Mental Health Treatment Act of 1988, a mino patient may be taken into custody if, as a result of a mental disorder, there is a danger to self and others or is gravely disabled. A California peace officer, a California licensed psychiatrist in an approved facility, Ventura County Health Officer or other County-designated individuals, can take the individual into custody, but it must be enforced by the police in the field. Welfare and Institutions Code Section 5150: A patient may be taken into custody if, as a result of a mental disorder, there is a danger to self and others or is gravely disabled. A California peace officer, a California licensed psychiatrist in an approved facility, Ventura County Health Officer or other County-designated individuals, can take the individual into custody, but it must be enforced by the police in the field. All patient may be taken into custody if, as a result of a mental disorder, there is a danger to self and others or is gravely disabled. A California peace officer, a California licensed psychiatrist in an approved facility, Ventura County Health Officer or other County-designated individuals, can take the individual into custody, but it must be enforced b		

Ventura County Mental Health Crisis Team: (866) 998-2243

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Cardiac Ari ADULT	PEDIATRIC	
BLS Procedures Initiate Cardiac Arrest Management (CAM) Protocol		
Airway management per VCEMS policy		
	ling Orders	
 Defibrillate Defibrillate q 2 minutes as indicated Lifepak 360 Joules Zoll 200 Joules 	 Defibrillate Defibrillate q 2 minutes as indicated using escalating joules doses 2, 4, 6, 8 joules/kg 	
IV or IO access & PRESTO Blood draw	IV or IO access & PRESTO Blood Draw	
 Epinephrine* 0.1 mg/mL Administer ASAP goal ≤6 minutes IV/IO –1 mg (10 mL) q 6min Repeat x 2 for max of 3 doses during initial arrest. If ROSC then re-arrest an additional 3 doses may be administered. Amiodarone IV/IO – 300 mg – after second defibrillation If VT/VF persists, 150 mg IV/IO in 3-5 minutes 	 Epinephrine* 0.1mg/mL Administer ASAP goal ≤ 6 minutes IV/IO - 0.01mg/kg (0.1 mL/kg) q 6 min Repeat x 2 for max of 3 dose during initial arrest. If ROSC then re-arrest and additional 3 doses may be administered. Amiodarone IV/IO - 5 mg/kg - after second defibrillation If VT/VF-persists, repeat 5 mg/kg x 2 q 3-5 minutes 	
Normal Saline • IV/IO bolus 1 Liter	Normal Saline • IV/IO 20 mL/kg bolus	
ALS Airway Management • If unable to ventilate by BLS measures, initiate appropriate advanced airway procedures in accordance with policy 710. When Torsades de Pointes is identified: • Magnesium Sulfate • IV/IO – 2 g over 2 min • Repeat x 1 in 5 min Treat underlying causes when identified: Renal Failure / History of Dialysis: • Calcium Chloride • IV/IO – 1g • Repeat x 1 in 10 min • Sodium Bicarbonate • IV/IO – 1 mEq/kg • Repeat 0.5 mEq/kg x 2 q 5 min Tricyclic Antidepressant Overdose: • Sodium Bicarbonate • IV/IO – 1 mEq/kg • Repeat 0.5 mEq/kg x 2 q 5 min	 ALS Airway Management If unable to ventilate by BLS measures, initiate appropriate advanced airway procedures in accordance with policy 710. When Torsades de Pointes is identified: Magnesium Sulfate IV/IO – 50 mg/kg over 2 min Repeat x 1 in 5 min Treat underlying causes when identified: Renal failure / History of Dialysis: Calcium Chloride IV/IO – 20 mg/kg Repeat x 1 in 10 min Sodium Bicarbonate IV/IO – 1 mEq/kg Repeat 0.5 mEq/kg x 2 q 5 min 	
Consult with ED Physician for	or further treatment measures*	
 Additional Information: If sustained ROSC (>30 seconds), activate VF/VT alarm and initiate post arrest resuscitation as outlined in Policy 733: Cardiac Arrest management and Post Arrest Resuscitation. For termination of resuscitation, transport decisions, and use of base hospital consult reference Policy 733: Cardiac Arrest Management and Post Arrest Resuscitation If patient is <u>hypothermic</u>-only ONE round of medication administration and limit <i>defibrillation to 6 times</i> prior to Base Hospital contact. Field determination of death is discouraged in these patients and they should be transported to the most accessible receiving facility 		

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ADULT	y/Syndrome PEDIATRIC
BLS Pro	ocedures
Determine Potential vs.	cautions as indicated Actual Crush Syndrome gen as indicated pody heat
	ling Orders
Potential for Crush Syn IV/IO access Release com	drome
 Crush Syndrome Initiate 2nd IV/IO access Normal Saline IV/IO bolus – 1 Liter Caution with cardiac and/or renal history Sodium Bicarbonate IV/IO mix – 1 mEq/kg Added to 1st Liter of Normal Saline Albuterol Nebulizer – 5 mg/6 mL Repeat as needed 	Crush Syndrome Initiate 2 nd IV/IO access if possible or establish IO Normal Saline ○ IV/IO bolus – 20 mL/kg ○ Caution with cardiac and/or renal history Sodium Bicarbonate ○ IV/IO mix– 1 mEq/kg ○ Added to 1 st Liter of Normal Saline Albuterol ○ Patient ≤ 30 kg ○ Repeat as needed ○ Patient > 30 kg ○ Nebulizer – 5 mg/6 mL
• Pain Control- Per Policy 705.19	 Repeat as needed Pain Control- Per Policy 705.19
Release compression	Release compression
Monitor for cardiac dysrhythmias	Monitor for cardiac dysrhythmias
 For cardiac dysrhythmias: Calcium Chloride IV/IO – 1 g over 1 min 	 For cardiac dysrhythmias: Calcium Chloride IV/IO – 20 mg/kg over 1 min
For continued shock • Repeat Normal Saline o IV/IO bolus – 1 Liter	For continued shock <i>Repeat</i> Normal Saline IV/IO bolus – 20 mL/kg
 For persistent hypotension after fluid bolus: Epinephrine 10 mcg/mL 1 mL (10 mcg) q 2 minutes, slow IV/IO push Titrate to SBP of greater than or equal to 90 mm/Hg 	 For persistent hypotension after fluid bolus: Epinephrine 10 mcg/mL 0.1 mL/kg (1 mcg/kg) q 2 minutes, slow IV/IO push Max single dose of 1 mL or 10 mcg Titrate to SBP of greater than or equal to 80 mm/Hg
	I Orders Only In orders only In interventions within scope but not addressed in policy
 Additional Information: Refer to VCEMS Policy 735 for additional information Potential Crush Syndrome – Continuous crush injury t Crush Syndrome – Continuous crush injury to torso or If elderly or cardiac history is present, use caution with Dysrhythmias are usually secondary to Hyperkalemia. widened QRS complexes, bradycardia 	on preparing push dose epinephrine solution. o torso or extremity above wrist or ankle for 2 hours or less. extremity above wrist or ankle for greater than 2 hours.

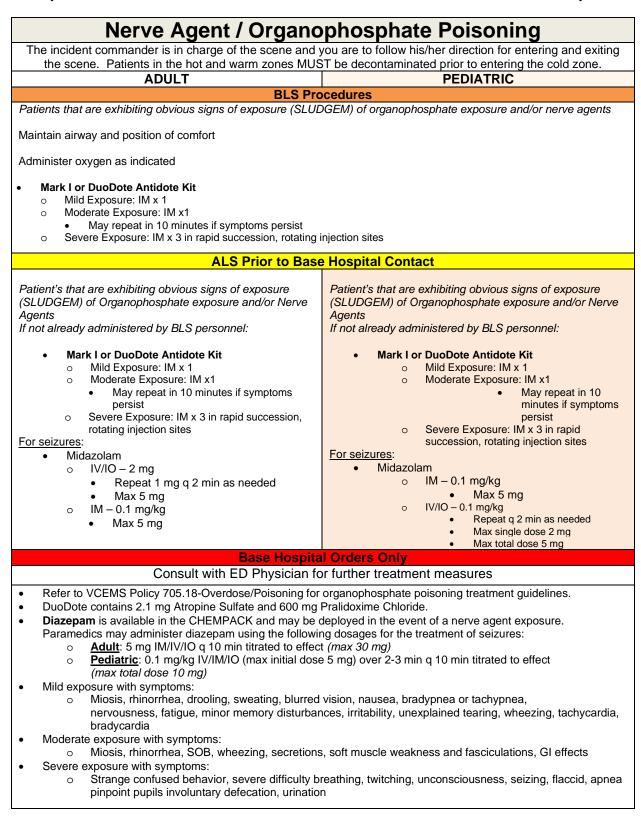
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Nausea/Vomiting		
ADULT	PEDIATRIC	
BLS Procedures		
Maintain airway and position of comfort Administer oxygen as indicated	Maintain airway and position of comfort Administer oxygen as indicated	
ALS Prior to Base Hospital Contact		
Indications for Ondansetron:	Indications for Ondansetron:	
 Moderate to severe nausea or vomiting. 	 Moderate to severe nausea or vomiting. 	
 Potential for airway compromise secondary to suspected/actual head injury when cervical immobilization is used. 	 Potential for airway compromise secondary to suspected/actual head injury when cervical immobilization is used. 	
3. Prior to MS administration	3. Prior to MS administration	
 IV/IO access Cardiac Monitor Ondansetron PO – 4 mg ODT May repeat x 1 in 10 min IV/IM/IO – 4 mg May repeat x 1 in 10 min 	 IV/IO access Cardiac Monitor Ages 6 months up to 5 years Ondansetron PO - 2 mg ODT IV/IM/IO - 0.1 mg/kg Ages ≥ 5 Years Ondansetron PO - 4 mg ODT IV/IM/IO - 0.1 mg/kg 	
Base Hospit	al Orders only	
Consult with ED Physician for further treatment measures	Consult with ED Physician for further treatment measures	
The use of ondansetron should be avoided in patients with known congenital long QT syndrome		
 Use caution in administration of ondansetron for patients with electrolyte imbalances, CHF, bradvarbythmia, or patients taking medications known to prolong the OT integral. 		

bradyarrhythmia, or patients taking medications known to prolong the QT interval

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Overdose		
ADULT	PEDIATRIC	
BLS Pro	ocedures	
Decontaminate if indicated and appropriate		
Administer oxygen and support ventilations as indicated		
Suspected opioid overdose with respirations less than 12/min ar Naloxone 	-	
 IN – 4 mg in 0.1 mL, may repeat X 1, Max of 8 m IM – 2 mg, may repeat X 1, Max of 4 mg 	g	
	ling Orders	
IV/IO access	IV/IO access	
Suspected opioid overdose with respirations less than 12/min and significant ALOC • Naloxone, if not already administered by BLS personnel or if patient continues with decreased resp rate and significant ALOC • IN - 4 mg in 0.1 mL, may repeat x1, Max of 8 mg	Suspected opioid overdose with respirations less than 12/min and significant ALOC: Naloxone, if not already administered by BLS personnel or if patient continues with decreased resp rate and significant ALOC 	
 IN – 4 mg in 0.1 mL, may repeat x1, Max of 8 mg IM – 2 mg q 5 min IV/IO – 0.4 mg q 1 min Initial max 6 mg May repeat as needed to maintain respirations greater than 12/min 	 IM - 0.1 mg/kg Initial max of 2 mg IV/IO - 0.1 mg/kg Initial max 2 mg Initial max 2 mg May repeat as needed to maintain respirations greater than 12/min Dystonic Reaction 	
Dystonic Reaction Benadryl IV/IO/IM – 50 mg 	For patients ≥ 6 months of age • Benadryl o IV/IO/IM – 1 mg/kg • Max 50 mg	
Stimulant/Hallucinogen Overdose Midazolam IV/IO - 2 mg Repeat 1 mg q 2 min as needed Max 5 mg IM - 0.1 mg/kg Max 5 mg 	Stimulant/Hallucinogen Overdose Midazolam IM – 0.1 mg/kg Max 5 mg IV/IO – 0.1 mg/kg Repeat q 2 min as needed Max single dose 2 mg Max total dose 5 mg 	
Base Hospita Tricyclic Antidepressant Overdose • Sodium Bicarbonate o IV/IO – 1 mEq/kg	al Orders Only Tricyclic Antidepressant Overdose • Sodium Bicarbonate o IV/IO – 1 mEq/kg	
 Repeat 0.5 mEq/kg x 2 q 5 min Beta Blocker Overdose Glucagon IV/IO - 2 mg 	 Repeat 0.5 mEq/kg x 2 q 5 min Beta Blocker Overdose Glucagon IV/IO – 0.1 mg/kg 	
 May give up to 10mg if available Calcium Channel Blocker Overdose Calcium Chloride IV/IO – 1 g over 1 min Glucagon IV/IO – 2 mg 	 May give up to 10 mg if available Calcium Channel Blocker Overdose Calcium Chloride IV/IO – 20 mg/kg over 1 min Glucagon 	
May give up to 10 mg if available	May give up to 10 mg if available	
Additional Information: • Refer to VCEMS Policy 705.17-Nerve Agent Poisoning for nerve ag • If chest pain present, refer to chest pain policy. DO NOT GIVE ASF	pent exposure treatment guidelines. PIRIN OR NITROGLYCERIN (Consult with ED Physician) dminister until max dosage is reached <u>or</u> RR greater than 12/min. When	

given to chronic opioid patients, withdrawal symptoms may present. IM dosing is the preferred route of administration. o If base hospital contact cannot be made, naloxone should be administered sparingly, in doses no more than 0.1 mg every 2-3 minutes.

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Pain Control BLS Procedures Place patient in position of comfort Administer oxygen as indicated **ALS Standing Orders** IV/IO access Cardiac Monitor Pain 5 out of 10 or greater and SBP > 90 mmHg Fentanyl IV/IO - 1 mcg/kg over 1 minute, OR IN/IM - 1mcg/kg . Max single dose 100 mcg May repeat q 5 minutes for persistent pain to a max total dose 200 mcg Repeat doses should be administered IV/IO if vascular access obtained If Fentanyl unavailable; Ondansetron - Per 705.15 Nausea/Vomiting Policy Repeat x 1 in 10 minutes for nausea or > 2 doses of Morphine ٠ Morphine IV/IO - 0.1 mg/kg over 1 minute Max single dose 10 mg May repeat 1/2 initial dose x 2 q 5 min OR Morphine IM - 0.1 mg/kg Max single dose 10 mg May repeat 1/2 initial dose x 2 q 15 min **Base Hospital Orders only** Consult with ED Physician when orders are needed for interventions within scope but not addressed in policy. **Additional Information**

- 1. Consider administering ¹/₂ normal dose of Opiate pain control;
 - Patients 65 years of age and older
 - Patients with past adverse reaction to opiates
 - Patients with suspected cardiac ischemia or active TCP
 - Patients with traumatic injuries who are at risk for hemodynamic decompensation

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Seizures		
ADULT	PEDIATRIC	
BLS Procedures		
Protect from injury		
Maintain/manage airway as indicated		
Administer oxygen as indicated for suspected febrile seiz persists, see below:	zures, begin passive cooling measures. If seizure activity	
Determine Blood Glucose level, and treat according to V	C EMS policy 705.03 – Altered Neurologic Function	
ALS Prior to Bas	e Hospital Contact	
IV/IO access	Consider IV/IO access	
If not already performed by BLS personnel, determine Blood Glucose level, and treat according to VC EMS policy 705.03 – Altered Neurologic Function	If not already performed by BLS personnel, determine Blood Glucose level, and treat according to VC EMS policy 705.03 – Altered Neurologic Function	
 Persistent Seizure Activity Midazolam (Give to actively seizing pregnant patients prior to magnesium) IM – 0.1 mg/kg Max 5 mg IV/IO – 2 mg Repeat 1 mg q 2 min as needed Max 5 mg 20 weeks gestation to one week postpartum & No Known Seizure History Magnesium Sulfate IV/IOPB – 4 g in 50 mL D₅W infused over 10 min Slow or stop infusion if bradycardia, heart block, or decreased respiratory effort occur 	 Persistent Seizure Activity Midazolam IM – 0.1 mg/kg Max 5 mg IV/IO – 0.1mg/kg, Repeat q 2 min as needed. Max single dose 2 mg Max total dose 5 mg 	
	al Orders only	
Consult with ED Physician for further treatment measures		
 Additional Information: Patients with a known seizure disorder or uncomplicated, apparent pediatric febrile seizures, no longer seizing and with a normal postictal state, may be treated as a BLS call. 		

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Shortness of Breath – Pulmonary Edema
BLS Procedures
Administer oxygen as indicated
Initiate CPAP for moderate to severe distress
ALS Standing Orders Nitroglycerin
 SL or lingual spray – 0.4 mg q 1 min x 3 Repeat 0.4 mg q 2 min No max dosage Hold for SBP < 100 mmHg
If not already performed by BLS personnel, Initiate CPAP for moderate to severe distress
Perform 12-lead ECG (Per VCEMS Policy 726)
IV/IO access
If wheezes are present and suspect COPD/Asthma, consider: • Albuterol • Nebulizer – 5 mg/6 mL • Repeat as needed
If patient presents or becomes hypotensive • Epinephrine 10 mcg/mL o 1mL (10 mcg) q 2 minutes, slow IV/IO push o Titrate to SBP of greater than or equal to 90 mm/Hg
Base Hospital Orders only
Consult with ED Physician for further treatment measures
 Additional Information: Refer to VCEMS Policy 735 for additional information on preparing push dose epinephrine solution. Nitroglycerin is contraindicated when phosphodiesterase inhibitor medications [Sildenafil (Viagra and Definition of the formation of the formation

Revatio), Vardenafil (Levitra), and Tadalafil (Cialis)] have been recently used (Viagra or Levitra within 24 hours; Cialis within 48 hours). These medications are most commonly used to treat erectile dysfunction or pulmonary hypertension. In this situation, NTG may only be given by ED Physician order.

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DZ MO

EDIATRIC	Shortness of Brea ADULT
LDIATRIC	BLS Pr
	Administer oxygen as indicated
	Initiate CPAP for both moderate and severe distress – 8 years of age an
	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 in If 30 kg and Over IM - 0.3 mg
	May repeat x 1 in 5 minutes if patient still in ALS Stan
ny if indicated per VCEMS Policy 715	Perform Needle Thoracostomy if indicated per VCEMS Policy 715
BLS personnel, consider CPAP if age 8	If not already performed by BLS personnel, consider CPAP for both moderate and severe distress
5 30 kg lizer – 2.5 mg/3 mL vith spacer -2 puffs (180 mcg) is an otable alternative to nebulized Albuterol	Moderate Distress Albuterol Nebulizer – 5 mg/6 mL MDI with spacer -4 puffs (360 mcg) is an acceptable alternative to nebulized Albuterol Repeat Albuterol as needed
 30 kg 30 kg izer – 5 mg/6 mL vith spacer -4 puffs (360 mcg) is an otable alternative to nebulized Albuterol Albuterol as needed ng/mL, if not already administered by BLS 0.01 mg/kg up to 0.3mg repeat q 5 minutes, if patient remains in 	 Severe distress Epinephrine 1 mg/mL, if not already administered by BLS personnel IM - 0.3mg May repeat q 5 minutes if patient still in distress and unable to obtain vascular access. Albuterol Nebulizer - 5 mg/6 mL Repeat as needed
ess and unable to obtain vascular access.	Establish IV/IO access
ng with prior epinephrine administration mcg/mL _/kg (1mcg/kg) every 2 minutes, slow IV/IC single dose of 1mL or 10mcg e to overall improvement in work of hing.	 Severe Distress, not improving with prior epinephrine administration Epinephrine 10 mcg/mL 1 mL (10 mcg) q 2 minutes, slow IV/IO push Titrate to overall improvement in work of breathing
lizer/Aerosolized Mask – 5 mL	
tridor or respiratory distress) mL Epinephrine ess than 30 kg lizer – 2.5 mg/2.5 mL 30 kg and greater lizer – 5 mg/5 mL	
∂S	
D i	Base Hospit Consult with ED Physician f Additional Information:. If hypotensive, consider alternative etiologies and refer to add High flow O2 is indicated for severe respiratory distress, ever COPD patients have a higher susceptibility to spontaneous p If suspected Arterial Gas Embolus/Decompression Sickness 151 /min Oa via mask

 If suspected Arterial Gas Embolus/Decompression Sickness secondary to SCUBA emergencies, transport patients 15L/min O₂ via mask. Early BH contact is recommended to determine most appropriate transport destination.

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	Supraventricul	PEDIATRIC	
		ocedures	
	Administer oxy	gen as indicated	
	ALS Stand	ling Orders	
Valsalv IV/IO a	/a maneuver Iccess	Valsalva maneuver IV/IO access	
<u>Stable</u>	- Mild to moderate chest pain/SOB	Stable - Mild to moderate chest pain/SOB	
Adenosine o IV/IO – 6 mg rapid push immediately followed by 10-20 mL NS flush		Adenosine o IV/IO – 0.1 mg/kg (max 6 mg) rapid push immediately followed by 10-20 mL NS flush	
No cor	oversion or rate control	No conversion or rate control	
Adenosine IV/IO –12 mg rapid push immediately followed by 10-20 mL NS flush May repeat x 1 if no conversion or rate control 		 Adenosine IV/IO – 0.2 mg/kg (max 12 mg)_rapid push immediately followed by 10-20 mL NS flush May repeat x 1 if no conversion or rate control 	
<u>Unstat</u>	ole - ALOC, signs of shock or CHF	Unstable - ALOC, signs of shock or CHF	
 Synchronized Cardioversion Zoll 75, 120, 150, 200 Joules Lifepak 100, 200, 300, 360 Joules Consider sedation prior to cardioversion for special circumstances. 		 Synchronized Cardioversion 0.5, 1, 2, 4, 6, 8 joules/kg Consider sedation prior to cardioversion for special circumstances. 	
Fenta	•	Special Circumstances* Fentanyl	
0	1 mcg/kg IV/ IO / IN prior to electrical therapy.	 1 mcg/kg IV/ IO / IN prior to electrical therapy. 	
		al Orders only	
Addition	CONSULT WITH ED Physician f nal Information:	or further treatment measure	
•		dioversion include fully awake and alert, patients with	
 Adenosine is contraindicated in patients with history of 2° or 3rd° AV Block, Sick Sinus Syndrome (except in patient with functioning pacemaker) or known hypersensitivity to adenosine. 			
 Consider patient stability, likelihood of other rhythms (Rapid a-fib, sinus tachycardia, a-flutter), and potential underlying causes of tachycardia (sepsis, hypovolemia, heart failure) to aid in identifying case where transport without Adenosine administration may be appropriate. 			
0			
0	Document all ECG strips during adenosine adn		

,mo DZ 9

	Bradycardia
ADULT (HR less than 40 bpm)	PEDIATRIC (HR less than 60 bpm)
BLS Pro	
Administer oxygen as indicated	Administer oxygen as indicated Assist ventilations if needed
Supine position as tolerated	If significant ALOC, initiate CPR
ALS Standi	
IV/IO access	If CPR indicated, initiate CAM and reference
Obtain 12-lead ECG	appropriate cardiac arrest treatment protocol
Atuanina	IV/IO access
Atropine • IV/IO – 0.5 mg (0.1 MG/mL)	IV/IO access only if patient in extremis
	Epinephrine 10 mcg/mL
If initial Atropine is transiently effective, or patient	 0.1 mL/kg (1 mcg/kg) q 2 minutes, slow IV/IO push
remains bradycardic without hemodynamic compromise.	 Max single dose of 1 mL or 10 mcg
 May repeat Atropine 0.5 mg IV/IO q 5 min to a total max dose of 3 mg. 	 Titrate to SBP of greater than or equal to 80 mm/Hg
Transcutaneous Pacing (TCP)	
 Should be initiated only if patient has signs of 	
hypoperfusion	
 Should be started immediately for 3^o heart blocks and 2^o Type 2 (Mobitz II) heart blocks 	
If pain is present during TCP	
• Pain Control – per policy 705.19	
If patient remains hypotensive (SBP less than 90mmHg)	
Epinephrine 10 mcg/mL	
 1 mL (10 mcg) q 2 minutes, slow IV/IO push 	
• Titrate to SBP ≥ 90 mm/Hg	
When patient presents or becomes hypotensive without	
signs of heart failure. Normal Saline	
• 500 mL IV/IO bolus	
 May repeat x 1 for total of 1,000 mL 	
For suspected hyperkalemia	
For suspected hyperkalemia Calcium Chloride	
○ IV/IO – 1 g	
 Withhold if suspected digitalis toxicity 	
Sodium Bicarbonate	
o IV/IO − 1 mEq/kg	
 Repeat 0.5 mEq/kg x 2 q 5 min 	
Base Hospital	Orders Only
	Atropine
	 IV/IO – 0.02 mg/kg Minimum doso 0.1 mg
	• Minimum dose – 0.1 mg
Consult with ED Physician fo	or further treatment measure
Additional Information Bradycardia does not require treatment unless side 	gns and symptoms are present (chest pain, altered leve
of consciousness, abnormal skin signs, profound	
	ation on preparing push dose epinephrine solution.
Effective Date: December 1, 2020 Date Revised: 0	October 8, 2020
Encouro Balo. Booombor 1, 2020 Dale Neviseu.	

Effective Date: December 1, 2020 Next Review Date: October 31, 2022

Date Revised: October 8, 2020 Last Reviewed: October 8, 2020

DZ MO

Adult	Pediatric
BLS Pro	cedures
Administer oxyg	en as indicated
ALS Stand	ing Orders
V/IO Access	IV/IO Access
 <u>Stable</u> – Mild to moderate chest pain/SOB Amiodarone IV/IOPB - 150 mg in 50mL D₅W infused over 10 minutes. 	Stable– Mild to moderate chest pain/SOB• Amiodarone• IV/IOPB – 5 mg/kg (max 150 mg) in 50mL D5W infused over 10 minutes.
 Jnstable – ALOC, signs of shock or CHF Synchronized Cardioversion Zoll 75, 120, 150, 200 joules Lifepak 100, 200, 300, 360 joules Consider sedation prior to cardioversion for special circumstances* 	Unstable – ALOC, signs of shock or CHF Synchronized Cardioversion 0.5, 1, 2, 4, 6, 8 joules/kg Consider sedation prior to cardioversion for special circumstances*
 Jnstable polymorphic (irregular) VT: Defibrillate Defibrillate as indicated Lifepak 360 Joules Zoll 200 Joules 	 Unstable polymorphic (irregular) VT: Defibrillate Defibrillate as indicated using escalating joules doses 2, 4, 6, 8 joules/kg
 Consider sedation prior to defibrillation as outlined below for special circumstances* 	 Consider sedation prior to defibrillation as outlined below for special circumstances
 Magnesium Sulfate Magnesium Sulfate IV/IOPB – 2 g in 50 mL D₅W infused over 5 min May repeat x 1 if Torsades continues or recurs Special Circumstances* Fentanyl 1 mcg/kg IV/ IO / IN prior to electrical therapy. 	Torsades de Pointes • Magnesium Sulfate ○ IV/IOPB – 50 mg/kg (max 2 g) in 50 mL D ₅ W infused over 5 min • May repeat x 1 if Torsades continues or recurs Special Circumstances* • Fentanyl ○ 1 mcg/kg IV / IO / IN prior to electrical therapy.
f recurrent VT, perform synchronized cardioversion or defibrillation at last successful Joules setting.	If recurrent VT, perform synchronized cardioversion or defibrillation at last successful Joules setting.
After successful cardioversion, obtain an ECG per Policy 726.	After successful cardioversion, obtain an ECG per Policy 726.
Base Hospita <u>ED Physician Order Only:</u> After synchronized cardioversi hythm greater than 50 bpm and not in 2 nd or 3 rd degree h amiodarone - 150 mg IV/IOPB in D ₅ W infused over 10 m Additional Information: *Special circumstances for sedation prior to cardiover	on or defibrillation, if patient converts to narrow complex eart block, and amiodarone not already given, consider

Effective Date:	December 1, 2020	Date Revised:	October 8, 2020
Next Review Date:	October 31, 2022	Last Reviewed:	October 8, 2020

DZ MO

Smoke Inhalation				
ADULT	PEDIATRIC			
Remove individual from the environment Consider gross decontamination Assess ABCs Assess for trauma and other acute medical conditions	ce of smoke inhalation and ALOC or significant headache			
	ling Orders			
Airway support in accordance with Policy 710 – Airway Management IV/IO access as indicated	Airway support in accordance with Policy 710 – Airway Management IV/IO access as indicated			
If Wheezes present • Albuterol • Nebulizer – 5 mg/6 mL • Repeat as needed If smoke inhalation AND unconscious, ALOC, or cardiac arrest: • Hydroxocobalamin – If Available • IV/IO – 5 g in 200 mL NS over 15 minutes	If Wheezes present • Albuterol • Patient ≤ 30 kg • Nebulizer – 2.5 mg/3 mL • Repeat as needed • Patient > 30 kg • Nebulizer – 5 mg/6 mL • Repeat as needed If smoke inhalation AND unconscious, ALOC, or cardiac arrest: • Hydroxocobalamin – If Available • IV/IO – 70 mg/kg to a max of 5 g in 200 mL NS over 15 minutes			
Base Hospita	al Orders Only			
 Continued unconscious/ALOC OR poor response to initial dose Hydroxocobalamin IV/IO – 5 g in 200 mL NS over 15 to 120 minutes, depending on clinical presentation. 	 Continued unconscious/ALOC OR poor response to initial dose Hydroxocobalamin IV/IO – 70 mg/kg to a max of 5 g in 200 mL NS over 15 to 120 minutes, depending on clinical presentation. 			
Consult with ED Physician for further treatment measures.				
 Additional Information: If monitoring equipment is available, the patient's carboxyhemoglobin levels should be checked if smoke inhalation is suspected. Evidence of smoke inhalation includes soot around mouth and/or nares, increased work of breathing, wheezing If additional IV/IO medications are indicated, establish a second IV or IO. DO NOT administer other medications with hydroxocobalamin through the same IV/IO line. DO NOT administer hydroxocobalamin if patient has a known allergy to hydroxocobalamin or cyanocobalamin 				

DZ 201

VCEMS Medical Director

COUNTY OF VENTU	RA	EMERGE	NCY MEDICAL SERVICES
HEALTH CARE AGE	NCY	POL	ICIES AND PROCEDURES
	Policy Title:		Policy Number
Public	Health Emergency Vaccine Administration		737
APPROVED:	At Cll		Date: October 15, 2020
Administration:	Steve L. Carroll, Paramedic		
APPROVED: Medical Director:	Dz S, MO Daniel Shepherd, M.D.		Date: October 15, 2020
Origination Date:	September 28, 2020		
Date Revised:		Effor	tive Dete: October 15, 2020
Date Last Reviewed:		Ellec	tive Date: October 15, 2020
Review Date:	December 31, 2021		

- I. PURPOSE: To authorize paramedics to administer the intramuscular inactivated influenza and/or COVID-19 vaccine to adult patient populations (14 or older) when authorized by the Ventura County EMS Agency during the COVID-19 disaster declaration.
- II. AUTHORITY: California Health and Safety Code, Sections 1797.220 and 1798.
 California Code of Regulations, Title 22, Sections 100145 and100169. State of California Emergency Proclamation for COVID-19
- III. POLICY: Paramedics accredited by the Ventura County EMS Agency approved for this local optional scope of practice, and having had completed the VCEMSA approved training to administer intramuscular influenza and/or COVID-19 (when available) vaccines, may provide these vaccinations to persons as directed by VCEMSA Medical Director in conjunction with the County Public Health Department. These vaccination policies and procedures shall only be authorized and valid for paramedics accredited in accordance with VCEMS Policy 315 – Paramedic Accreditation to Practice that have been approved to utilize this local optional scope during the California COVID-19 emergency proclamation.
- IV. PROCEDURE:
 - A. Vaccine Administration
 - Assess the need for the vaccine in question utilizing the current guidance on that vaccination, which will be provided by the Ventura County Public Health Department. (also see CDC information regarding the seasonal flu vaccine

https://www.cdc.gov/flu/prevent/keyfacts.htm)

- 2. Screen for contraindications and precautions of inactivated vaccine (listed below).
- 3. Collect and review Vaccine Consent/Record of Administration sheet.
 - a. Confirm that the consent has been signed.
- 4. Vaccinate patients while they are seated or lying down and consider observing them for 15 minutes after receipt of the vaccine.
- 5. Paramedics must maintain aseptic technique when administering the influenza or COVID vaccines.
- 6. The screening questionnaire must be completed prior to administration of the influenza or COVID vaccine.
- 7. Equipment Required:
 - a. Vaccine
 - b. 23-25 g, 1-inch needle
 - i. For larger patients, 1.5-inch needle length may be more appropriate.
 - ii. See "Needle Gauge/Length and Injection Site Guidance" below for additional information.
 - iii. COVID-19 vaccine may come as prefilled/ready to administer or require other injection supplies or sizes.

Needle Gauge/Length and Injection Site Guidance				
Gender, Age, Weight of Pt.	Injection Site			
14 to 18 years	22-25	5/8* – 1 1 – 1 ½	Deltoid muscle of arm Anterolateral thigh muscle	
Female or male less than 130 lbs	22–25	⁵ ⁄8*–1"	Deltoid muscle of arm	
Female or male 130–152 lbs	22–25	1"	Deltoid muscle of arm	
Female 153–200 lbs	22–25	1–11⁄2"	Deltoid muscle of arm	
Male 153–260 lbs	22–25	1–11⁄2"	Deltoid muscle of arm	
Female 200+ lbs	22–25	11⁄2"	Deltoid muscle of arm	
Male 260+ lbs	22–25	11⁄2"	Deltoid muscle of arm	

^{*} A 5⁄8" needle may be used in patients weighing less than 130 lbs (<60 kg) for IM injection in the deltoid muscle with the skin is stretched tight, the subcutaneous tissue not bunched, and at a 90-degree angle to the skin, although specific differences may be required by various COVID-19 manufacturers.

- 8. Hand hygiene and don gloves
- 9. Check expiration date of vaccine
- 10. Cleanse the area of the deltoid muscle with the alcohol prep.

- a. Deltoid landmarks: 2-3 finger widths down from the acromion process; bottom edge is imaginary line drawn from axilla.
- 11. Insert the needle at a 90-degree angle into the muscle.
 - a. Pulling back on the plunger prior to injection is not necessary.
- 12. Inject the vaccine into the muscle.
- 13. Withdraw the needle, and using the alcohol prep, apply slight pressure to the injection site.
- 14. Do not recap or detach needle from syringe. All used syringes/needles should be placed in puncture-proof containers.
- 15. Monitor the patient for any symptoms of allergic reaction.
- 16. Document the following information:
 - a. Date of vaccination
 - b. Name of patient
 - c. Injection site
 - d. Vaccine lot number
 - e. Vaccine manufacturer
- 17. Complete Appropriate Documentation:
 - a. Vaccine Consent/Record of Administration form: ensure this is completed, retained and appropriately submitted after administration.
 - Note that medical records/charts should be documented and retained in accordance with applicable state laws and regulations. If vaccine was not administered, record the reason(s) for non-receipt of the vaccine (e.g., medical contraindication, patient refusal). Discuss the need for vaccine with the patient (or, in the case of a minor, their parent or legal representative) at the next visit.
 - b. Vaccine Information Statement: document the publication date and the date it was given to the patient.
 - c. **Patient's medical record:** if accessible, record vaccine information (above) in the patient's medical record.
 - d. **Personal immunization record card:** record the date of vaccination and name/location of administering clinic.
 - e. Immunization Information System (IIS), or "registry": Report the vaccination

to the appropriate state/local IIS, if available.

- f. **VAERS:** report all adverse events following the administration of a vaccine to the federal Vaccine Adverse Event Reporting System (VAERS).
 - To submit a VAERS report online (preferred) or to download a writable PDF form, go to <u>https://vaers.hhs.gov/reportevent.html</u>. Further assistance is available at (800) 822-7967.
- 18. Give patient vaccine information sheet, using the appropriately translated sheet for non-English speaking client; these can be found at <u>www.immunize.org/vis.</u>
- 19. Advise patient when to return for subsequent vaccination, if appropriate.
- B. Contraindications, Relative Contraindications, and Considerations for Vaccine Administration
 - 1. Contraindications for Use of Vaccines
 - a. Do not administer vaccines to a person who has an allergic reaction or a serious systemic or anaphylactic reaction to a prior dose of that vaccine or to any of its components. For a list of vaccine components, refer to guidance specific to this vaccine provided by the manufacturer and/or VCEMSA.
 - b. The manufacturer's package insert contains a list of ingredients

 (www.immunize.org/fda) and these are also listed at
 www.cdc.gov/vaccines/pubs/pinkbook/downloads/appendices/B/excipient-table

 2.pdf
 - c. Contraindications for Live Attenuated Vaccines are not pertinent as these are not being administered under this local optional scope of practice
 - 2. Relative Contraindications for Use of Vaccines
 - a. Moderate or severe acute illness with or without fever
 - b. History of Guillain-Barré syndrome within 6 weeks of a previous vaccination
 - c. People with egg allergies can receive any licensed, recommended ageappropriate influenza vaccine (IIV, RIV4, or LAIV4) that is otherwise appropriate. People who have a history of severe egg allergy (those who have had any symptom other than hives after exposure to egg) should be vaccinated in a medical setting, supervised by a health care provider who is able to recognize and manage severe allergic reactions. Two completely egg-free

(ovalbumin-free) flu vaccine options are available: quadrivalent recombinant vaccine and quadrivalent cell-based vaccine.

- 3. Considerations for Vaccine Administration
 - a. Treatment of medical emergencies related to the administration of vaccine will be in accordance with VCEMSA Policies and Procedures.

COUNTY OF VENTU	IRA	EMERGE	ENCY M	IEDICAL SERVICES
HEALTH CARE AGE	NCY	POL		AND PROCEDURES
	Policy Title:		Policy Number	
Doci	umentation of Prehospital Care			1000
APPROVED:	At CU		Date:	December 1, 2020
Administration:	Steven Carroll, Paramedic			
APPROVED:	Dz S, mo		Date:	December 1, 2020
Medical Director	Daniel Shepherd, M.D.			
Origination Date:	June 15, 1998			
Date Revised:	October 15, 2020	Effective	Data: D	ecember 1, 2020
Date Last Reviewed:	October 15, 2020	LITECTIVE		
Review Date:	October 31, 2023			

- PURPOSE: To define the use of standardized records to be used by Ventura County Emergency Medical Service (VCEMS) providers for documentation of pre-hospital care.
- II. AUTHORITY: California Health and Safety Code, Sections 1797.225, and 1798;California Code of Regulations, Title 22, Division 9, Section 100147.
- III. Definitions:

Incident: For the purposes of this policy, will be defined as any response involving any Ventura County pre-hospital personnel to any event in which there is an actual victim, or the potential for a victim

Patient Contact: Any encounter involving Ventura County pre-hospital personnel with any person consenting, either implied or informed, to assessment and/or treatment.

National EMS Information System (NEMSIS): The national data standard for emergency medical services as defined by the National Highway Traffic and Safety Administration (NHTSA) and the NEMSIS Technical Assistance Center (TAC)

California EMS Information System (CEMSIS): The California data standard for emergency medical services, as defined by the California EMS Authority (CalEMSA). This data standard includes the NEMSIS standards and state defined data elements.

VCEMS Data Standard: The local data standard, as defined by VCEMS. This data standard includes the NEMSIS and CEMSIS standards, in addition to locally defined data elements.

Ventura County Electronic Patient Care Report (VCePCR): The electronic software platform that allows for real time collection of prehospital patient care information at the time of service.

- IV. POLICY: Patient care provided by first responders and transport personnel shall be documented using the appropriate method.
- V. PROCEDURE:
 - A. Provision of Access

VCEMS will provide access to the approved Ventura County Electronic Patient Care Report (VCePCR) system and software to EMS system stakeholders required to enter, edit, or analyze data.

- B. Documentation
 - The VCEMS VCePCR will be used to document the care provided by pre-hospital personnel for every incident in which there is a patient contact. Documentation shall be completed on any person with obvious injury or significant mechanism regardless of consent. The following are exceptions:
 - a. If a First Responder Advanced Life Support (FR ALS)
 Paramedic initiates care of the patient, the FR ALS
 Paramedic shall document all care provided to the patient on VCePCR.
 - b. If care is turned over to another ALS agency, a VCePCR shall be completed by all pre-hospital provider agencies who delivered patient care and/or transport.
 - c. All relevant fields pertaining to the EMS event will be appropriately documented on the VCePCR.
 - Patient side documentation is encouraged and should be practiced whenever patient care would not be negatively affected.
 - e. In the event of an incident with three or more victims, documentation will be accomplished as follows:

- 1) MCI/Level I (3-14 victims): The care of each patient shall be documented using a VCePCR.
- MCI/Level II or III (15+ victims): Each patient transported to a hospital shall have their care documented on a Ventura County Multi-Casualty Patient Record.
 - a) The transporting agency is responsible for completion of the multi-casualty patient record. The record is designed to be completed by the transporting crew enroute to the receiving hospital.
 - b) The transporting agency retains the original of the multi-casualty patient record. A copy shall be left with the patient at the receiving hospital. The triage tag shall be attached to this copy and is included as official documentation in the patient's medical record.
 - c) The transporting agency shall distribute
 copies of the multi-casualty patient record to
 the base hospital and EMS Agency within
 twenty-four hours of demobilization of the
 incident.
- C. Transfer of Care
 - Transfer of care between two field provider teams and between field provider and hospital will be documented on the VCePCR. The first arriving agency will post to the server and perform a coordinated electronic transfer of care whenever possible within the VCePCR system to the next incoming unit. The unit receiving the electronic transfer will download the correct corresponding report prior to completion of the VCePCR. This includes intraagency units and inter-agency units.

- Any / all agencies involved in the transferring of electronic medical records shall ensure they are uploading and downloading the correct record for the correct patient.
- 2. A VCePCR shall be completed in accordance with training administered by VCEMS, or designee.
- 3. The time that patient care is transferred to hospital staff shall be documented by the primary provider handling patient care in all circumstances where a patient is transported to a hospital.
 - a. Transfer of care to the receiving facility is complete when:
 - 1) The patient is moved off of the EMS gurney, and;
 - Verbal patient report is given by transporting EMS personnel and acknowledged by Emergency Department medical personnel and a signature of patient receipt is obtained in the VCePCR.
 - a) The signature time shall be the official transfer of care time and will be documented in eTimes.12 – Destination Patient Transfer of Care Date/Time Destination.
- D. Cardiac Monitor

In the event the cardiac monitor is attached as required by any of the VCEMS 705 policies, a complete ECG data transfer shall be recorded and attached to the corresponding VCePCR. ECG data shall be downloaded by each provider agency involved in that incident and attached to the corresponding VCePCR. An original 12 lead ECG shall be printed and submitted upon transfer of care to hospital staff for any patient where a 12 lead ECG was performed.

1. If a 12 lead ECG is performed by medical staff at a clinic or urgent care the original document shall be scanned or photographed and attached to the VCePCR, at the time of posting to the server, as part of the patient's prehospital medical record and the original or a copy of the 12-lead ECG shall be submitted to SRC staff upon transfer of care to hospital personnel.

E. Handtevy

In the event the patient is treated, within the pediatric definition of VCEMS Policies, a complete Handtevy data transfer will be recorded and attached to the corresponding VCePCR.

F. Submission to VCEMS

- 1. In the following circumstances, a complete VCePCR shall be completed and posted by any transporting unit, and by FR ALS personnel retaining care, within thirty (30) minutes of arrival at destination:
 - Any patient that falls into Step 1 or Step 2 (1.1 2.8) of the
 Ventura County Field Triage Decision Scheme
 - b. Any patient that is in cardiac arrest or had a cardiac arrest with ROSC.
 - c. Any patient with a STEMI positive 12 lead ECG.
 - d. Any patient with a positive Cincinnati Stroke Screening (CSS +). This includes all prehospital Stroke Alerts and all prehospital ELVO alerts.
 - e. Any patient that is unable to effectively communicate information regarding present or past medical history.
 - f. An exception to this circumstance would be during times of EMS system overload where a delay in a unit returning to service could pose significant delays in response times.
- 2. For circumstances not listed above, in which the patient was transported to a hospital, the entire data set found within the VCePCR 'REPORT' tab shall be completed and electronically posted to the server by transporting agencies, and by FR ALS personnel retaining care, within thirty (30) minutes of arrival at destination. This includes all assessments, vital signs, procedures, and medications performed as part of the response.
 - An exception to this circumstance would be during times of EMS system overload where a delay in a unit returning to service could pose significant delays in response times.

- 3. All other reports not falling into the above criteria shall be completed and posted to the server as soon as possible and no later than the end of shift.
- In all circumstances in which a person is transported to a receiving hospital from the scene of an emergency, or as part of any emergent/urgent specialty care transfer (STEMI, Stroke, Trauma), the transporting personnel shall obtain and document the eOutcome.04 – Hospital Encounter Number.
- G. For Refusal of EMS Services, Refer to Policy 603 for documentation requirements. Every patient contact resulting in refusal of any medical treatment and/or transport must be documented with the following information, the reason dispatched and/or chief complaint, assessment and vital signs, base hospital contact (when appropriate), patient advised to seek medical attention and completion of all applicable fields. Signatures will be captured whenever possible by each agency at the time of patient contact/refusal. If, at any point, a signature is not obtained for any reason, explanation shall be documented in the narrative section of the VCePCR.
- H. ALS Inter-facility Transfers (Acute Care Facility to Acute Care Facility)
 Documentation shall be completed on all ALS Inter-facility transfers only.
 Documentation will include, but not be limited to, baseline assessment, medications administered, reason for transfer, procedures done to the patient, vital signs and any changes from baseline assessment.
 If the transferring facility sends staff to accompany the patient, the staff member(s) name(s) shall be documented on the VCePCR.
- I. The completion of any VCePCR will not delay patient transport to hospital receiving facility.

J. Patient Medical Record

The VCePCR and Ventura County Multi-Casualty Patient Record shall be considered a legal document and part of the patient's medical record. The first responder agency, transport agency, and hospital are custodians of record. Printing should only be performed as needed, and an electronic copy of the VCePCR should be utilized and referred to whenever feasible. A print log and reason for printing shall be monitored regularly to help ensure security of protected health information within the system.

Attachment A

These abbreviations have been accumulated from the California approved EMT Curriculum and various other resource material. The abbreviations were collected by the Ventura County ALS CQI Team to assist EMS field, hospital and dispatch personnel in providing consistent medical documentation.

Term	Abbreviation
5% Dextrose in Water	D5W
Abdomen	Abd
Above knee amputation	AKA
Acquired Immunodeficiency	AIDS
Syndrome	7
Ad Libitum (as desired)	Ad lib
Advanced Life Support	ALS
Against medical advise	AMA
Alcohol	ETOH
Alert and oriented	A & O
Also known as	AKA
Altered Level Of	ALOC
Consciousness	ALOO
Amount	Amt
Ampule	Amp
Antecubital	Anp
Antecubital	AC
	Ant
Anterior/Posterior	
Appointment	Appt
Arterial Blood Gas	ABG
Arteriosclerotic Heart	ASHD
Disease	
As necessary	prn
As soon as possible	ASAP
Aspirin	ASA
At	@
Atrial Fibrillation	A fib, AF
Attention Deficit	ADHD
Hyperactivity Disorder	
Automated external	AED
Defibrillator	
Automatic Implantable	AICD
Cardiac Defibrillator	D) (1)
Bag Valve Mask	BVM
Basic Life Support	BLS
Birth Control Pill	bcp
Bowel Movement	BM
Bundle Branch Block	BBB
By Mouth	p.o.
By Order Of	per
Cancer	CA
Carbon Dioxide	CO ₂
Carbon Monoxide	CO
Cardio Pulmonary	CPR
Resuscitation	U. I.

TermAbbreviationCentral Nervous SystemCNSCerebrospinal FluidCSFCerebrovascular AccidentCVACervical SpineC-SpineChief ComplaintCCChronic ObstructiveCOPDPulmonary DiseaseCICirculation, Sensation, MotorCSMClearCIContinuous Positive Airway PressureCPAPCoronary Artery Bypass GraftCABGCoronary Artery DiseaseCADDate of BirthDOBDead on ArrivalDOADefibrillatedDefibDelirium TremensDTsDiabetes MellitusDMDilation and curettageD & CDistal Interphalangeal JointDIPDeformity, Contusion, Abrasion, Penetration, Burn, Tendermess, Laceration, SwellingDCAPBTLSDo Not ResuscitateDNRDoctor of OsteopathyDODopsgttsDyspnea On ExertionDOEElectrocardiogramEEGEmergency Medical ServicesEMTTechnicianEIGEmergency Medical ServicesEMTEndotrachealETEndrachealETEndrachealETEndrachealETEndrachealETEndrachealETEndertachealETEndertachealETEndertachealETEndertachealETEndertachealETEndertachealEttol.Everyq		
Cerebrospinal FluidCSFCerebrovascular AccidentCVACervical SpineC-SpineChief ComplaintCCChronic Obstructive Pulmonary DiseaseCOPDCirculation, Sensation, MotorCIClearCIContinuous Positive Airway PressureCPAPCoronary Artery Bypass GraftCABGCoronary Artery DiseaseCADDate of BirthDOBDead on ArrivalDOADefibrillatedDefibDefibrillatedDMDilation and curettageD & CDiscontinue*D/C*Distal Interphalangeal JointDIPDeformity, Contusion, Abrasion, Penetration, Burn, Tenderness, Laceration, SwellingDNRDoctor of OsteopathyDODorpsgttsDyspnea On ExertionDOEElectroencephalogramEEGEmergency Medical ServicesEMSEmergency Medical ServicesEMSEmergency Medical ServicesETEnd-Tidal CO2EtCO22Equal=EstimatedEstEstimated Time of ArrivalETAEtiologyEtiol.		Abbreviation
Cerebrovascular AccidentCVACervical SpineC-SpineChief ComplaintCCChronic Obstructive Pulmonary DiseaseCOPDCirculation, Sensation, MotorCSMClearClContinuous Positive Airway PressureCPAPCoronary Artery Bypass GraftCABGCoronary Artery DiseaseCADDate of BirthDOBDead on ArrivalDOADefibrillatedDefibDelirium TremensDTsDiabetes MellitusDMDilation and curettageD & CDiscontinue*D/C*Distal Interphalangeal JointDIPDeformity, Contusion, Abrasion, Penetration, Burn, Tenderness, Laceration, SwellingDCAPBTLSDostor of OsteopathyDODropsgttsDyspnea On ExertionDOEElectrocardiogramEEGEmergency Medical ServicesEMTEnd-Tidal CO2EtCO2Equal=EstimatedEstEstimatedEstEstimated Time of ArrivalETAEtiologyEtiol.	Central Nervous System	CNS
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		q

Term	Abbreviation
Every day*	qd*
Evening	pm
Extended Care Facility	ECF
Eye, ear, nose, throat	EENT
Fahrenheit	F
	F F
Female	
Fetal Heart Rate	FHR
Fluid	FI
Foot	Ft
Foreign body	FB
Four times a day	QID
Fracture	Fx
Gallbladder	GB
Gastrointestinal	GI
Genitourinary	GU
Glasgow Coma Score	GCS
Grain	Gr
Gram	g
Gravida 1,2,3, etc	G1, G2, G3
Gun Shot Wound	GSW
Gynecological	Gyn
Heart Rate	HR
Hematocrit	Hct
Hemoglobin	Hgb
Hepatitis A Virus	HAV
Hepatitis B Virus	HBV
Hepatitis C Virus	HCV
History	Hx
History and Physical	H&P
Hour of Sleep (bedtime)*	hs*
Human Immunodeficiency	HIV
Virus	
Hydrochlorothiazide	HCTZ
Hypertension	HTN
Immediately	STAT
Insulin Dependent Diabetes	IDDM
Mellitus	
Intake and Output	1&0
Intensive Care Unit	ICU
Intercostal Space	ICS
Intracranial Pressure	ICP
Intralingual	IL I
Intramuscular	IM
	IO
Intraosseous	
Intrauterine Device	IUD
Intravenous	IV
Intravenous Push	IVP
Irregular	Irreg
Jugular venous distention	JVD
Kilogram	kg
Kilometer	Km
Labor and Delivery	L&D
Laceration	Lac
Last Menstrual Period	LMP
Lateral	Lat
Left	L
Left Eye*	OD*
	00

Term	Abbreviation	
Left Lower Extremity	LLE	
Left Lower Lobe	LLL	
Left Lower Quadrant	LLQ	
Left Upper Extremity	LUE	
Left Upper Lobe	LUL	
Left Upper Quadrant	LUQ	
Less Than	<	
Lower Extremity	LE	
Lumbar Puncture	LP	
Male	М	
Medical Doctor	MD	
Metered Dose Inhaler	MDI	
Microgram	mcg	
Milliequivalent	mEq	
Milligram	mg	
Milliliter	ml	
Millimeter	mm	
Minute	Min	
Morning	am	
Morphine Sulphate*	MS*	
Motor Vehicle Collision	MVC	
Mouth	MO	
Moves all Extremities	MAE	
Multiple Casualty Incident	MCI	
Multiple sclerosis	MS	
Myocardial Infarction	MI	
Nasal cannula	NC	
Nausea/Vomiting	NV	
Negative	neg	
Night	Noc	
Nitroglycerin	NTG	
No Acute Distress	NAD	
No Known Allergies	NKA	
No Known Drug Allergies	NKDA	
Non Insulin Dependent	NIDDM	
Diabetes Mellitus		
Non Rebreather Mask	NRBM	
Non Steroidal Anti-	NSAID	
inflammatory Drugs		
Normal Saline	NS	
Normal Sinus Rhythm	NSR	
Not applicable	NA	
Nothing by Mouth	NPO	
Obstetrics	OB	
Occupational Therapy	OT	
Oral Dissolving Tablet	ODT	
Operating Room	OR	
Organic Brain Syndrome	OBS	
Ounce	OZ	
Over the Counter	OTC	
Overdose	OD	
Oxygen	02	
Oxygen Saturation	SpO ₂	
Palpable	Palp	
Para, number of	Para 1,2,3, etc	
pregnancies		
Paramedic	PM	

Term	Abbreviation	Term	Abbreviation
Paroxysmal Supraventricular	PSVT	Shortness of Breath	SOB
Tachycardia		Sinus Bradycardia	SB
Paroxysmal Nocturnal	PND	Sinus Tachycardia	ST
Dyspnea		Sodium Bicarbonate	NaHCO3
Past Medical History	PMH	Sodium Chloride	NaCl
Pediatric Advanced Life	PALS	Streptococcus	Strep
Support		Subcutaneous*	SQ*
Pelvic Inflammatory Disease	PID	Sublingual	SL
Per Rectum	pr	Sudden Acute Respiratory	SARS
Percutaneously Inserted	PICC	Syndrome	
Central Catheter		Sudden Infant Death	SIDS
Phencyclidine	PCP	Syndrome	
Physical Exam	PE	Supraventricular	SVT
Positive	+, pos	Tachycardia	
Pound	lb	Temperature	Т
Pregnant	Preg	Temperature, Pulse,	TPR
Premature Ventricular	PVČ	Respiration	
Contraction		Three Times a Day	TID
Primary Care Physician	PCP	Times	Х
Private/Primary Medical	PMD	To Keep Open	TKO
Doctor		Tracheostomy	Trach
Privately Owned Vehicle	POV	Traffic Collision	TC
Pro Re Nata – As Needed	PRN	Transient Ischemic Attack	TIA
Pulmonary Embolism	PE	Transcutaneous Pacing	TCP
Pulse, Motor, Sensation	PMS	Treatment	Тх
Pulseless Electrical Activity	PEA	Tuberculosis	ТВ
Pupils Equal Round and	PERRL	Twice a day	BID
Reactive to Light		Upper Respiratory Infection	URI
Range of Motion	ROM	Urinary Tract Infection	UTI
Registered Nurse	RN	Ventricular Fibrillation	VF
Respiration	R	Ventricular Tachycardia	VT
Respiratory Rate	RR	Vital Signs	VS
Respiratory Therapist	RT	Volume	Vol
Right	Rt	Water	H20
Right Eye*	OD*	Weight	Wt
Right Lower Extremity	RLE	With	w/
Right Lower Lobe	RLL	Within Normal Limits	WNL
Right Lower Quadrant	RLQ	Without	w/o
Right Middle Lobe	RML	Wolf-Parkinson-White	WPW
Ringer's Lactate	RL	Year	Yr
Rule Out	R/O	Years Old	y/o
Sexually Transmitted	STD	I	·
Disease			

*THE JOINT COMMISSION and ISMP have indicated these abbreviations have a high likelihood of misinterpretation; thereby leading to medical errors, therefore, they are **not** to be used in **handwritten** documentation.

COUNTY OF VENTU	RA	EMERGE	ENCY MEDICAL SERVICES
HEALTH CARE AGE	NCY	POL	LICIES AND PROCEDURES
	Policy Title:		Policy Number
Traur	na Care System – General Provisions		1400
APPROVED:	At C.U		Date: December 1, 2020
Administration:	Steven L. Carroll, Paramedic		Date. December 1, 2020
APPROVED:	DZ S, MO		Date: December 1, 2020
Medical Director:	Daniel Shepherd, M.D.		Date. December 1, 2020
Origination Date:	July 1, 2010		
Date Revised:	July 8, 2020	Effectiv	ve Date: December 1, 2020
Date Last Reviewed:	July 8, 2020		
Review Date:	July 31, 2022		

- PURPOSE: To provide standards and guidelines for the Ventura County Trauma Care System. To provide all injured patients the accessibility to an organized, multidisciplinary and inclusive system of trauma care. To ensure that all injured patients are taken to the time-closest and most appropriate medical facility.
- II. AUTHORITY: Health and Safety Code, §1797.160, §1797.161, and §1798, and California Code of Regulations, Title 22, §100255.
- III. POLICY:
 - A. Multi-disciplinary Nature of Systematized Trauma Care The Ventura County EMS Agency (VCEMS) recognizes the multi-disciplinary nature of a systemized approach to trauma care. VCEMS has adopted policies, guidelines and triage criteria that provide for the coordination of all resources and ensure the accessibility to the time-closest and most appropriate medical facility for all injured patients.
 - B. Public Information and Education
 - 1. VCEMS is committed to the establishment of trauma system support and the promotion of injury prevention and safety education.
 - 2. VCEMS facilitates speakers to address public groups, and serves as a resource for trauma information/education.
 - VCEMS assists community and professional groups in the development and dissemination of education to the public on such topics as injury prevention, safety education programs and access to the Trauma Care System.

- 4. Each designated facility must participate in the development of public awareness and education campaigns for their service area.
- C. Marketing and Advertising
 - In accordance with the Health and Safety Code, Division 2.5, no healthcare provider shall use the term "trauma facility," "trauma hospital," "trauma center," "trauma care provider," "trauma care vehicle," or similar terminology in its signs or advertisements or in printed materials and information it furnishes to the general public unless its use has been authorized by VCEMS.
 - All marketing and promotional plans, with respect to trauma center designation shall be submitted to VCEMS for review and approval, prior to implementation. Such plans will be reviewed by VCEMS, with approval or denial issued within 10 days, based on the following guidelines:
 - a. Shall provide accurate information
 - b. Shall not include false claims
 - c. Shall not be critical of other providers
 - d. Shall not include financial inducements to any providers or third parties
- D. Service Areas for Hospitals

Service areas for local trauma hospitals are determined by the VCEMS policy of transporting patients to the time-closest and appropriate facility.

E. EMS Dispatching

EMS dispatching for Ventura County is provided for and coordinated through the Ventura County Fire/EMS Communications Center. The closest ALS transporting unit to an incident is dispatched, as well as BLS, and in some cases ALS, first responders.

- F. Training of EMS Personnel
 - Designated facilities will provide training to hospital staff on trauma system policies and procedures.
 - 2. Base Hospitals conduct periodic classes to orient prehospital providers to the local EMS system. Representatives from a designated trauma center may present the orientation to the Ventura County trauma system.
- G. Coordination and Mutual Aid between neighboring jurisdictions

- 1. VCEMS will establish and maintain reciprocity agreements with neighboring EMS jurisdictions that provide for the coordination of mutual aid within those jurisdictions.
- VCEMS works cooperatively and executes agreements, as necessary, in order to ensure that patients are transported to the time-closest and appropriate facility.
- 3. VCEMS maintains contact with neighboring EMS agencies in order to monitor the status of trauma care systems in surrounding jurisdictions.
- H. Interfacility Transfers
 - 1. As an inclusive trauma system, all hospitals have a role in providing trauma care to injured patients.
 - Designated trauma centers are required to establish and maintain a transfer agreement with other trauma center(s) of higher designation for the transfer of patients that require a higher level of care.
 - 3. Transferring facilities, in conjunction with the higher-level facility, shall be responsible for obtaining the appropriate level of transportation when transferring trauma patients.
- I. Pediatric Trauma Care.

Integration of pediatric hospital (s), when applicable, into the overall trauma care system to ensure that all trauma patients receive appropriate trauma care in the most expeditious manner possible

- Designated trauma centers are required to maintain a transfer agreement with a pediatric trauma center.
- 2. As with all specialties, pediatric consultation should be promptly available
- 3. The transferring facility, in conjunction with the higher-level facility, shall be responsible for obtaining the appropriate level of care during transport.
- J. Coordinating and Integration of Trauma Care with Non-Medical Emergency Services
 - VCEMS ensures that all non-medical emergency service providers are apprised of trauma system activities, as it relates to their agency/organization.
 - 2. Non-medical emergency service providers are included in the VCEMS committee memberships, as appropriate.

- 3. VCEMS disseminates information to non-medical emergency service agencies through written communication, as necessary.
- K. Trauma Center Fees

VCEMS has developed a fee structure that covers the direct cost of the designation process and to effectively monitor and evaluate the trauma care system. Fees are based on the direct VCEMS cost of administering the trauma care system.

- L. Medical Control and Accountability
 - 1. Each designated trauma center shall:
 - a. Provide base hospital medical control for field prehospital care providers.
 - Provide base hospital service in accordance with California Code of Regulations, Title 22, as outlined in the VCEMS Base Hospital Agreements.
 - c. Participate in the VCEMS data collection system as defined by VCEMS, CEMSIS-Trauma and the National Trauma Database.
 - d. Participate in the VCEMS continuous quality improvement program.

COUNTY OF VENTU HEALTH CARE AGE		EME		CY MEDICAL SERVICES IES AND PROCEDURES
	Policy Title:			Policy Number
	Trauma Committees			1402
APPROVED:	At Cll		Data	luna 1, 2017
Administration:	Steven L. Carroll, Paramedic		Date: June 1, 2017	
APPROVED:	DZ S, MD		Date: June 1, 2017	
Medical Director:	Daniel Shepherd, MD			
Origination Date:	June 9, 2011			
Date Revised:	March 29, 2017		Effective Date: June 1, 20	
Date Last Reviewed:	July 8, 2020			
Review Date:	July 31, 2023			

- I. PURPOSE: To advise the EMS Medical Director on the establishment of trauma related policies, procedures, and treatment protocols. To advise the EMS Medical Director on trauma related education, training, quality improvement, and data collection issues. To review and improve trauma care in a collaborative manner among the trauma centers in Ventura County as well as trauma centers in neighboring counties.
- II. AUTHORITY: Health and Safety Code, §1797.160, §1797.161, and §1798, and California Code of Regulations, Title 22, §100255.
- III. POLICY: The Ventura County Emergency Medical Services Agency (VC EMS) Medical Director shall appoint a Trauma Operational Review Committee (TORC) and Trauma Audit Committee (TAC). TORC is an advisory committee to VC EMS on issues related to trauma care. TAC is a peer review committee that conducts a process of interfacility case sharing, evaluation, and recommendations for improvement for trauma care administered to patients of the Ventura County Trauma System as well as trauma systems in neighboring counties.
- IV. TRAUMA OPERATIONAL REVIEW COMMITTEE (TORC): TORC conducts systems and case review toward the goal of ensuring optimal and ongoing improvement of trauma care for patients in Ventura County. This committee strives to uphold and advance the values of an integrated, inclusive and mutually supportive trauma system.
 - A. TORC TASKS
 - Reviews, analyzes and proposes corrective actions for operational issues that occur within Ventura County's inclusive trauma system. Identifies problems and problem resolutions (loop closure).

- 2. Based on trauma system maturation and needs, recommend development and/or revisions of policies that impact trauma care.
- Reviews interfacility transport issues, particularly problematic or recurring themes, and occasionally, specific cases. Recommends improvement measures.
- 4. Reviews criteria for IFT for ongoing appropriateness and recommends policy revisions when needed.
- 5. Reviews prehospital trauma transport statistics for appropriateness of patient destinations, system trends and educational or other needs.
- 6. Reviews trauma registry reports.
- 7. Evaluates system needs and recommends trauma education or certification courses for emergency department personnel.
- 8. Recommends and collaborates with other Ventura County agencies and organizations on injury prevention projects.
- 9. Recommends and collaborates on research efforts.
- 10. Recommends and conducts educational programs toward the goal of enhancing an inclusive trauma system approach in Ventura County.
- B. TORC MEMBERSHIP

The membership of TORC shall be broad based regionally and represent the participants in the Trauma Care System and the regional medical community. If an individual representing a hospital or agency in a membership position is replaced with another individual, the hospital or agency shall provide written notification to VC EMS no later than two weeks before the next scheduled TORC meeting. TORC shall be chaired by the Ventura County EMS Agency Trauma System Manager. The membership of TORC includes the following:

- 1. Ventura County EMS Agency
 - a. Medical Director
 - b. Administrator
 - c. Deputy Administrator
 - d. Trauma System Manager
 - e. Ventura County Medical Examiner
- 2. Ventura County Trauma Centers
 - a. Hospital Administrator

- b. Trauma Medical Director
- c. Trauma Manager
- d. Emergency Department Medical Director
- e. Emergency Department Nurse Manager
- f. Prehospital Liaison Physician
- g. Prehospital Care Coordinator
- 3. Ventura County Non-Trauma Base Hospitals
 - a. Hospital Administrator
 - b. Emergency Department Medical Director
 - c. Emergency Department Nurse Manager
 - d. Prehospital Liaison Physician
 - e. Prehospital Care Coordinator
- 4. Ventura County Receiving Hospitals
 - a. Hospital Administrator
 - b. Emergency Department Medical Director
 - c. Emergency Department Nurse manager
- 5. Transport Providers

One representative, to be selected by individual agency

6. First Responders

One representative, to be selected by individual agency

7. Other individuals who the EMS Medical Director deems necessary, on an ad-hoc or permanent basis, and appointed by the EMS Medical Director

V. TRAUMA AUDIT COMMITTEE (TAC)

TAC is a multi-trauma center, multi-disciplinary peer review committee designed to improve trauma care by reviewing selected cases that involve exceptional saves, deaths, complications, sentinel events and other issues, with the goal of identifying issues and ensuring appropriate loop closure.

- A. TAC TASKS
 - 1. Monitors the process and outcome of trauma patient care and presents analysis of data for strategic planning of the trauma system.
 - Conducts review of cases that involve system issues or are regarded as having exceptional educational or scientific benefit.

- 3. For each case reviewed, provides finding of lessons learned, and when appropriate, makes recommendations regarding changes in the system to improve the process of trauma care.
- 4. Presents and reviews individual trauma center-specific issues with the goal of awareness, education and collaboration.
- Identifies county and intra-county problems, issues and trends. Identifies and implements, or recommends implementation, of resolutions (loop closure).

B. TAC MEMBERSHIP

The membership shall be limited to representatives of the Ventura County Trauma Centers and trauma centers located in neighboring counties, as determined by an EMS Medical Director. If an individual representing a hospital or agency in a membership position is replaced with another individual, the hospital or agency shall provide written notification to VC EMS no later than two weeks before the next scheduled TAC meeting. TAC shall be chaired by an EMS Medical Director. The membership of TAC includes the following:

- 1. Ventura County EMS Agency
 - a. Medical Director
 - b. Administrator
 - c. Deputy Administrator
 - d. Trauma System Manager
 - e. Administrative Assistant
- 2. Neighboring County EMS Agency
 - a. Medical Director
 - b. Administrator
 - c. Trauma System Manager
- 3. Trauma Centers
 - a. Trauma Medical Director
 - b. Trauma Manager
 - c. Prehospital Care Coordinator
- 4. Medical examiner, pathologist or physician designee from each represented county
- 5. Other individuals who the EMS Medical Director deems necessary, on an ad-hoc or permanent basis, and appointed by the EMS Medical Director

VI. TRAUMA COMMITTEES ATTENDANCE

Stated policy shall apply to both TORC and TAC.

- A. Members of a trauma committee will notify VC EMS staff in advance of any scheduled meeting they will be unable to attend.
- B. After two (2) absences in a calendar year, a member may be terminated from a trauma committee.
- C. Resignation from the committee must be submitted, in writing, to the VC EMS Agency, and is effective upon receipt, unless otherwise specified.
- D. The EMS Medical Director may grant special permission for other invitees to participate in the medical audit review of cases where their expertise or involvement in a specific case is essential to make appropriate determinations. Such invitees may only be present for the portions of meetings for which they have been requested to provide input.
- E. The EMS Medical Director may grant special permission for guests to attend a TAC meeting for educational purposes.
- F. Trauma committee meetings are closed to non-members without the prearranged permission of the EMS Medical Director.

VII. VOTING

Stated policy shall apply to both TORC and TAC. Due to the advisory nature of the trauma committees, most issues will require input rather than a vote process. Vote process issues will be identified as such by the TORC or TAC Chairperson. When voting is required, the majority of a committee's membership must be present.

VIII. MEETINGS

Stated policy shall apply to both TORC and TAC. The trauma committees shall be scheduled to meet as determined by committee, according to the needs of the trauma systems.

IX. MINUTES

Stated policy shall apply to both TORC and TAC.

- A. Minutes regarding operational and systems issue discussions that do not include references to case presentations or protected health information shall be distributed to committees' memberships within ten business days following a meeting.
- B. Due to the confidential nature of case presentations, minutes referencing specific cases and/or confidential patient information shall be distributed at the beginning

of the meeting and collected and destroyed at the close of each meeting. No copies may be made or possessed by members of the committee outside of the meeting.

X AGENDA ACTION ITEMS

- A. Action items shall be assigned to one individual per hospital or agency. Each hospital or agency may determine, on a case-by-case basis, whom among their committee membership is the most appropriate to be assigned a particular action item.
- B. Individuals who have been assigned action items shall submit documentation of work performed relating to the action item prior to the next scheduled meeting. Action item progress will be included in the next scheduled meeting's agenda packet.

XI. CONFIDENTIALITY

Stated policy shall apply to both TORC and TAC.

- A. All proceedings, documents, and discussions of the Trauma Operational Review Committee and the Trauma Audit Committee are confidential and are covered under Sections 1040 and 1157.7 of the Evidence Code of the State of California. The prohibition relating to discovery of testimony provided to the trauma committees will be applicable to all proceedings and records of these committees, which is one established by a local government agency to monitor, evaluate, and report on the necessity, quality, and level of specialty health services, including, but not limited to, trauma care services. Issues requiring system input may be sent in total to the local EMS agency for input. Guests may be invited to discuss specific cases and issues in order to assist the committee in making final case or issue determinations. Guests may only be present for the portions of meetings they have been requested to review or testify about.
- B. Trauma committee members agree to not divulge or discuss confidential patient information that would have been obtained solely through committee membership.
 - All meeting attendees will sign a meeting roster that, in addition to documenting meeting attendance, serves to affirm their agreement to uphold the trauma committee's standard of confidentiality. Rosters for TORC and TAC meetings shall include the following heading: "With certain exceptions, the proceedings and records of the Ventura County

EMS Agency (Trauma Operational Review Committee) (Trauma Audit Committee) are privileged and not subject to discovery. Records of the Committee are not subject to disclosure under the California Public Records Act, and Committee meetings are not subject to the Ralph M. Brown Act. (Cal. Evidence Code, sec. 1157.7.) Redisclosure of confidential patient information discussed in Committee proceedings is prohibited by law. (Cal. Civil Code, sec. 56.13.)"

2. A visitor, guest, or invitee who has been granted permission to attend any part of a trauma committee meeting shall sign the meeting roster that documents his/her attendance and affirms his/her agreement to uphold the committee's standard of confidentiality. The committee chairperson is responsible for assuring compliance with this requirement.

COUNTY OF VENTU HEALTH CARE AGE			CY MEDICAL SERVICES
	Policy Title:		Policy Number
Guidelines for Int	terfacility Transfer of Patients to a Trauma Co	enter	1404
APPROVED: Administration:	Steven L. Carroll, Paramedic		Date: June 1, 2015
APPROVED: Medical Director:	Dz S mo Daniel Shepherd, M.D.		Date: June 1, 2015
Origination Date: Date Revised: Date Last Reviewed: Review Date:	July 1, 2010 March 3, 2015 March 29, 2017 March, 2020	Effe	ective Date: June 1, 2015

- I. PURPOSE: To establish guidelines for the transfer of a trauma patient from a hospital in Ventura County to a Level II trauma center.
- II. AUTHORITY: Health and Safety Code, §1797.160, §1797.161, and §1798, and California Code of Regulations, Title 22, §100255.
- III. DEFINITIONS:
 - A. **EMERGENT** Transfer: A process by which a patient with potential life-or-limb threatening traumatic injuries is transferred to a trauma center. The patient requires an immediate procedure at a trauma center, and a delay in transfer will result in deterioration of the patient's condition, and the treating physician requests immediate transport to a trauma center.
 - Trauma Call Continuation: A process by which a patient with potential life-or-limb threatening traumatic injuries who has been taken to the emergency department by ALS ambulance is transferred to a trauma center. The patient requires an immediate procedure at a trauma center, the ALS ambulance is still on the premises, and the treating physician requests immediate transport to a designated trauma center.
 - B. **URGENT** Transfer: A process by which a patient with time-critical traumatic injuries is transferred to a trauma center. The patient requires a timely procedure at a trauma center, and a lengthy delay will result in deterioration of the patient's condition, and the treating physician requests prompt transport to a trauma center.
- IV POLICY: The following criteria will be used as a guideline for the transfer of a trauma patient to a trauma center.

- A. For patients who are in the emergency department at a community hospital and have one or more of the following injuries, if the referring physician requests transfer to a trauma center, the trauma center will immediately accept the patient.
 - 1. Carotid or vertebral arterial injury
 - 2. Torn thoracic aorta or great vessel
 - 3. Cardiac rupture
 - 4. Bilateral pulmonary contusion with PaO2 to FiO2 ratio less than 200
 - 5. Major abdominal vascular injury
 - 6. Grade IV, V or VI liver injuries
 - 7. Grade III, IV or V spleen injuries
 - 8. Unstable pelvic fracture
 - 9. Fracture or dislocation with neurovascular compromise
 - 10. Penetrating injury or open fracture of the skull
 - 11. Glasgow Coma Scale score <14 or lateralizing neurologic signs
 - 12. Unstable spinal fracture or spinal cord deficit
 - >2 unilateral rib fractures or bilateral rib fractures with pulmonary contusion
 - 14. Open long bone fracture
 - Significant torso injury with advanced co-morbid disease (such as coronary artery disease, chronic obstructive pulmonary disease, type 1 diabetes mellitus, or immunosuppression)
 - 16. Amputations or partial amputations of any portion of the hand¹
 - 17. Injury to the globe at risk for vision loss²
- B. Ventura County Level II Trauma Centers:
 - Agree to immediately accept from Ventura County community hospitals, patients with conditions included in the guidelines above.
 - 2. Will publish a point-of-contact phone number for an individual authorized to accept the transfer of a patient with a condition included in the guidelines above, or to request consultation with a trauma surgeon.
 - 3. Will establish a written interfacility transfer agreement with every hospital in Ventura County.
 - 4. Immediately post on ReddiNet and notify EMS Administrator on-call when there is no capacity to accept trauma patients due to:
 - a. Diversion for internal disaster
 - b. CT scanner(s) non-operational

- c. Primary and back-up trauma surgeons in operating rooms with trauma patients
- C. Community Hospitals:
 - Are not required to transfer patients with conditions included in the guidelines above to a trauma center when resources and capabilities for providing care exist at their facility.
 - 2. Will enter into a written interfacility transfer agreement with every trauma center in Ventura County.
- D. **EMERGENT** Transfers
 - EMERGENT transfers are indicated for patients with life-or-limb threatening injuries in need of emergency procedures at a trauma center. Criteria
 MUST include at least one of the following:
 - a. Indications for an immediate neurosurgical procedure.
 - b. Penetrating gunshot wounds to head or torso.
 - c. Penetrating or blunt injury with shock.
 - d. Vascular injuries that cannot be stabilized and are at risk of hemorrhagic shock or loss of limb acutely (excluding fingers/toes).
 - e. Pregnancy with indications for an immediate Cesarean section.
 - 2. For **EMERGENT** transfers, trauma centers will:
- Publish a single phone number ("hotline"), that is answered 24/7, for an individual authorized to accept the transfer of patients who have a condition as described in Section D.1 of this policy.
- b. Immediately upon initial notification by a transferring physician, accept in transfer all patients who have a condition as described in Section D.1 of this policy.
 - 3. For **EMERGENT** transfers, community hospitals will:
 - a Assemble and maintain a "Emergency Transfer Pack" in the emergency department to contain all of the following:
 - 1. Checklist with phone numbers of Ventura County trauma centers.
 - 2. Patient consent/transfer forms.
 - 3. Treatment summary sheet.
 - 4. Ventura County EMS "Emergency Trauma Patient Transfer QI Form."

- Have policies, procedures, and a quality improvement system in place to track and review all EMERGENT transfers and Trauma Call Continuations.
- c. Maintain an ambulance arrival to emergency department (ED) departure time of no longer than ten minutes.
- d. Establish policies and procedures to make personnel available, when needed, to accompany the patient during the transfer to the trauma center.
- 4. For **EMERGENT** transfers, Ventura County Fire Communications Center (FCC) will:
 - Respond to an **EMERGENT** transfer request by immediately dispatching the closest available ALS ambulance to the requesting hospital.
 - Consider Trauma Call Continuation transfers to be a follow-up to the original incident, and will link the trauma transfer fire incident number to the original 911 fire incident number.
- 5. For **EMERGENT** transfers, ambulance companies will:
 - a. Respond immediately upon request.
 - b. For "Trauma Call Continuation" requests, immediately transport the patient to a trauma center with the same ALS personnel and vehicle that originally transported the patient to the community hospital.
 - Not be required to consider **EMERGENT** transports as an "interfacility transport" as it pertains to ambulance contract compliance.
- E. URGENT Transfers
 - URGENT transfers are indicated for patients with time-critical injuries in need of timely procedures at a trauma center.
 - 2. For **URGENT** transfers, trauma centers will:
 - Publish a single phone number, that is answered 24/7, for a community hospital to request an urgent trauma transfer. Additionally, this line may be used to request additional consultation with a trauma surgeon if needed
 - 3. For **URGENT** transfers, community hospitals will:
 - Maintain an ambulance arrival to emergency department (ED) departure time of no longer than twenty minutes.

- 4. For **URGENT** transfers, ambulance companies will:
 - a. Arrive at the requesting ED no later than thirty minutes from the time the request was received.

V. PROCEDURE:

A. **EMERGENT** Transfers

- 1. After discussion with the patient, the transferring hospital will:
 - a. Call the trauma hotline of the closest trauma center to notify of the transfer.
 - b. Call FCC, advise they have an **EMERGENT** transfer, and request an ambulance. If the patient's clinical condition warrants, the transferring hospital will call FCC *before* calling the trauma center's hotline.
 - c. Complete transfer consent and treatment summary.
 - d. Prepare copies of the ED triage assessment form and demographic information form.
- 2. Upon request for an **EMERGENT** transfer, the dispatch center will dispatch the closest ALS ambulance and verbalize "MEDxxx E MERGENCY Trauma Transfer from [transferring hospital]". The trauma center will be denoted in the incident comments, which will display on the mobile data computer (MDC). If a unit does not have an operational MDC, the transferring hospital will advise the responding ambulance personnel of the destination trauma center.
- 3. Upon notification, the ambulance will respond Code (lights and siren).
- 4. FCC will track ambulance dispatch, enroute, on scene, en-route hospital, at hospital, and available times.
- 5. The patient shall be emergently transferred without delay. Every effort will be made to limit ambulance on-scene time in the transferring hospital ED to ten minutes.
 - a. All forms should be completed prior to ambulance arrival.
 - Any diagnostic test or radiologic study results may either be relayed to the trauma center at a later time, or if time permits, copied and sent with the patient to the trauma center.
 - c. Intravenous drips may be discontinued or remain on the ED pump.
 - d. The transporting paramedic will contact the trauma base hospital enroute and provide updated patient information.

B. Trauma Call Continuation

- 1. Upon determination of a Trauma Call Continuation, and after discussion with the patient, the community hospital will:
 - a. Direct the ambulance personnel to prepare to continue the transport to the trauma center.
 - b. Notify the designated trauma center ED of the immediate re-triage of a trauma patient, and communicate the patient's apparent injuries or reason for the re-triage, after the call is continued and the patient is enroute to the trauma center.
- 2. Upon notification of Trauma Call Continuation, the ambulance personnel will notify FCC of their assignment to a Trauma Call Continuation. FCC will link the trauma transfer to the original 911 incident and continue tracking enroute hospital (departure from community hospital), at hospital (arrival at trauma center) and available times.
- 3. When the transferring physician determines the patient is ready and directs ambulance personnel to continue the transport, the ambulance will emergently transport the patient to the trauma center. The transporting paramedic will contact the trauma base hospital enroute and provide updated patient information.

C. URGENT Transfers

- 1. After discussion with the patient, the transferring hospital will:
 - Call the trauma hotline for the closest trauma center to request an urgent trauma transfer. This call may be used to request additional consultation with the trauma surgeon if needed.
 - b. Call the transport provider to request an ambulance.
 - c. Complete transfer consent and treatment summary.
 - d. Prepare copies of the ED triage assessment form.
 - e. Limit ambulance on-scene time in the transferring hospital ED to twenty minutes.
- 2. Upon request for an Urgent transfer, the transport provider will dispatch an ambulance to arrive no later than thirty minutes after the request.
- D. For all EMERGENT transfers, the transferring hospital will submit a completed
 Emergency Trauma Patient Transfer QI Form to the Ventura County EMS Agency
 within 72 hours. The transfer will be reviewed for appropriate and timely care and

to identify opportunities for improvement. Results will be reviewed and discussed at the Countywide EMS Trauma Operational Review Committee.

¹For patients with isolated traumatic amputations or partial amputations of any portion of the hand, a community hospital may elect to transfer the patient to a Ventura County trauma center for potential replantation surgery. In these circumstances, the community hospital shall contact Los Robles Hospital and Medical Center (LRHMC) to determine the availability of a hand surgeon trained in microvascular replantation surgery. If a specialty hand surgeon is available the patient shall be preferentially transferred to LRHMC.

²Patients with isolated eye injuries needing transfer to a trauma center for potential ophthalmologic surgery shall be preferentially transferred to Ventura County Medical Center.



Emergent and Urgent Trauma Transfer QI Form

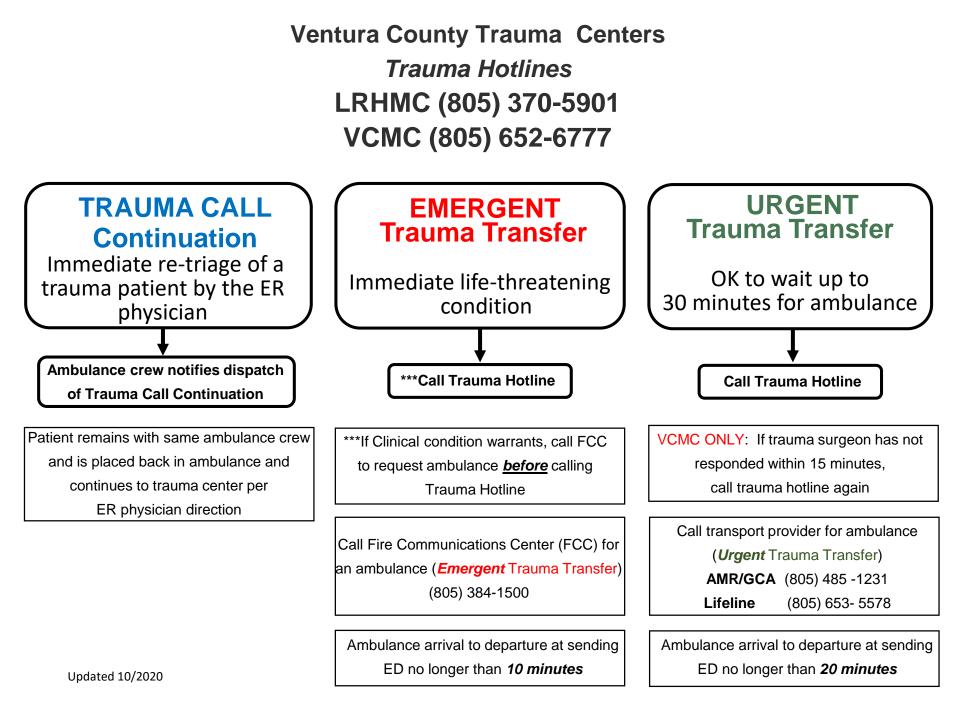
Use Link:

Emergent and Urgent trauma Transfer QI form

-OR-

Scan QR Code:





COUNTY OF VENTURA		EMERG	EMERGENCY MEDICAL SERVICES	
HEALTH CARE AGENCY		PO	POLICIES AND PROCEDURES	
	Policy Title:		Policy Number	
	Trauma Center Standards		1406	
APPROVED:	At CU		Data: Dacambar 1, 2020	
Administration:	Steven L. Carroll, Paramedic		Date: December 1, 2020	
APPROVED:	Dz 8, mg		Date: December 1, 2020	
Medical Director:	Daniel Shepherd, M.D.		Date. December 1, 2020	
Origination Date:	July 1, 2010		Effective Date: December 1, 2020	
Date Revised:	July 8, 2020	Effoct		
Date Last Reviewed:	July 8, 2020	Ellect		
Review Date:	July 31, 2022			

- I. PURPOSE: To establish Ventura County Trauma Center facility and personnel standards for trauma patient care. To obtain and maintain designation as a Level II Trauma Center, the Trauma Center shall be in compliance with the standards contained in this policy.
- II. AUTHORITY: Health and Safety Code, § 1798, 1798.165 and 1798.170, California Code of Regulations, Title 22, Division 9, Chapter 7.
- III. DEFINITIONS:
 - A. <u>"On-site"</u> means being physically present within the patient treatment area at all times.
 - B. <u>"In-house"</u> means being physically present in the trauma center and responding immediately upon trauma team activation. Arrive to the patient treatment area within ten (10) minutes of placement of call with a minimum documented compliance rate of 80% for each calendar month, and in no case greater than fifteen (15) minutes from time call is placed.
 - C. <u>"Immediately available"</u> means: a) dedicated to the trauma center while on duty, b) unencumbered by conflicting duties or responsibilities; c) responding without delay when notified; and d) being physically present within the patient treatment area when the patient arrives or within fifteen (15) minutes of placement of call, whichever is later, and not to exceed fifteen (15) minutes from patient arrival, with a minimum documented compliance rate of 80% for each calendar month, and in no case greater than thirty (30) minutes from time call is placed.
 - <u>"Promptly available"</u> means arrival to the patient treatment area within thirty (30) minutes with a minimum documented compliance rate of 80% for each calendar month, and in no case greater than forty-five (45) minutes, from time call is placed.

- E. <u>"On-call"</u> requires the specified healthcare professional to be available to respond for trauma care in a defined manner and time period (i.e., immediately available, promptly available).
- IV. POLICY:
 - A. General Provisions
 - California Statutes and Regulations: Trauma Centers will meet all applicable requirements set forth in California Health and Safety Code, Division 2.5, Chapter 6, Article 2.5 and California Code of Regulations, Title 22, Division 9, Chapter 7.
 - 2. American College of Surgeons Committee on Trauma (ACS-COT) standards:
 - a. Trauma Centers will obtain within three (3) years of designation by VCEMS, and continuously maintain, ACS-COT Level II Trauma Center verification.
 - b. Trauma Centers are required to continuously comply with ACS-COT trauma center verification standards, as determined by VCEMS through the QI program and other oversight activities.
 - 3. VCEMS may establish standards that exceed the requirements above.
 - B. Trauma System Activation

Trauma centers will accept all patients that meet trauma triage criteria, as described in VCEMS Policy 1405, except when on diversion per VCEMS Policy 402.

- C Interfacility Transfers
 - As an inclusive trauma system, all hospitals will have a role in providing trauma care to injured patients. All Ventura County trauma centers are required to establish and maintain transfer agreements with each of the Ventura County hospitals.
 - The trauma center is obligated to immediately accept all patients who meet trauma transfer criteria from hospitals in Ventura County per VCEMS Policy 1404.
 - To initiate a transfer, a call shall be placed by the transferring hospital emergency physician or surgeon to the trauma center on-call trauma surgeon or designee. The verbal report for transfer shall be physician to physician.

- The transferring hospital, in consultation with the trauma center, will be responsible for obtaining the appropriate level of transportation.
 Consideration of transport modality (e.g., ground vs. air) should be a collaborative decision between transferring hospital and the trauma center.
- D. Response Requirements:

Staff response times will be documented in the patient care record and trauma registry for VCEMS review.

1. Surgical Service:

Availability: an operating suite that is continuously available or being utilized for trauma patients and has operating staff who are on-call and promptly available unless operating on trauma patients, and back-up personnel who are promptly available.

- 2. General Surgeon:
 - a. Availability: On-call and immediately available for highest level of trauma team activation, and available within one (1) hour of the time of call for other trauma team activations or consultation when requested by the emergency physician.
 - b. Advised of all trauma patient admissions;
 - c. Participate in major therapeutic decisions;
 - d. Present in the emergency department for all major trauma resuscitations; and
 - e. Present in the operating room for all procedures.
- Emergency Medicine: Availability: On-Site
- 4. Respiratory Therapist: Availability: In House
- 5. Radiology Technician: Availability: In House
- CT Technician: Availability: On call and immediately available
- 7. Radiologist:

Availability: On-call and promptly available

8. Interventional Radiology Service and Interventional Radiologist

- a. Includes diagnostic and therapeutic procedures
- b. Availability: On-call and promptly available
- 9. Ultrasound Service

Availability: On-call and promptly available

- Anesthesiology: Availability: On call and promptly available
- Clinical Laboratory: Availability: On-Site (within the lab)
- 12. Neurosurgery: Availability: On-call and promptly available
- OB/GYN Service: Availability: On-call and promptly available
- 14. Orthopedics: Availability: On-call and promptly available
- 15. Ophthalmologist: Availability: On-call and promptly available
- Oral or Maxillofacial, <u>or</u> Head and Neck Service: Availability: On-call and promptly available
- 17. Plastic Surgery: Availability: On-call and promptly available
- 18. Reimplantation/Microsurgery:
 - a. Availability: On-call and promptly available
 - b. If reimplantation/microsurgery is provided via a transfer agreement, the patient shall be transferred out within one (1) hour of arrival at that trauma center, unless other life threatening conditions take precedent as determined by the staff trauma surgeon. If transfer is delayed the reason(s) must be documented in the patient's chart.
- 19. Urologist

Availability: On-call and promptly available

- 20. Thoracic Surgery: Availability: On-call and promptly available
- 21. Critical Care Services: Availability: On-site within the critical care area

- 22. Critical Care Physician Availability: On-call and promptly available
- 23. Cardiac Surgery:
 - a. Availability: On-call and promptly available if cardiac surgery is available at the trauma center
 - If cardiac surgery is provided via a transfer agreement, the patient shall be transferred out within one (1) hour of arrival at that trauma center, unless other life threatening conditions take precedent as determined by the staff trauma surgeon. If transfer is delayed, the reason(s) must be documented in the patient's chart.
- 24. Additional Specialty Services:
 - a. Burn Center. These services may be provided through a written transfer agreement with a burn center.
 - b. Acute hemodialysis capability.
 - Acute spinal cord injury management capability. This service may be provided through a written transfer agreement with a rehabilitation center.
 - d. A pediatric intensive care unit approved by the California State Department of Health Services' California Children Services (CCS); or a written transfer agreement with an approved pediatric intensive care unit. Hospitals without pediatric intensive care units shall establish and utilize written criteria for consultation and transfer of pediatric patients needing intensive care
- 25. Available Consultations:

The following specialist(s) or specialty service(s) will be available for consultation and respond by phone to a call within thirty (30) minutes.

- a. Cardiology
- b. Gastroenterology
- c. Hand Surgery
- d. Hematology
- e. Infectious Diseases
- f. Internal Medicine
- g. Nephrology
- h. Neurology

- i. Pathology
- j. Pulmonary Medicine
- E. Heliport

Trauma Centers are required to operate and maintain a State-permitted heliport, on or immediately adjacent to the hospital, as described in California Code of Regulations Title 21, § 3554.

- F. Prehospital Personnel
 - Trauma centers will have a written agreement with the Ventura College School of Prehospital and Emergency Medicine that allows paramedic students to schedule and experience their clinical rotations at the trauma center, as well as perform clinical procedures (e.g., endotracheal intubation, intravenous access) on patients.
 - 2. Trauma centers will allow EMT and paramedic personnel to perform clinical skills for continuing education and remediation purposes as directed by the VCEMS CQI program.
- G. Base Hospital
 - 1. Trauma Centers must be designated by VCEMS as a Base Hospital and comply with all requirements in VCEMS Policy 410.
 - 2. Trauma Centers must employ a minimum of one FTE Prehospital Care Coordinator.