EMERGENCY MEDICAL SERVICES - STAFF DIRECTORY

EMERGENCY MEDICAL SERVICES					
EMS Office		618-2050 (main number) 618-2099 (fax #)			
On-call EMS Staff	(925) 422-	(925) 422-7595 – ACRECC			
EMS Website- http://ems.acgov.org EMS Email- alcoems@acgov.org					
EMS DIRECTOR	3				
Lauri McFadden	618-2055	lauri.mcfadden@acgov.org			
DEPUTY EMS DIREC	TOR				
William McClurg	618-2030	william.mcclurg@acgov.org			
SPECIAL PROJEC	TS				
Anne Kronenburg	618-2035	anne.kronenberg@acgov.org			
MEDICAL DIRECTO	OR				
Karl Sporer, MD	618-2042	karl.sporer@acgov.org			
DEPUTY MEDICAL DIR	ECTOR				
Jocelyn Garrick, MD	618-2044	jocelyn.garrick@acgov.org			
EMS COORDINATO	RS				
Aram Bronston Regional Disaster Medical Health Specialist (RDMHS) – Region II	618-2033	aram.bronston@acgov.org			
Cynthia Frankel EMS for Children ReddiNet AED/PAD Prog. EMS Plan	618-2031	cynthia.frankel@acgov.org			
Kreig Harmon Educational Programs Field Protocols Website Content	667-7984	kreig.harmon@acgov.org			
Elsie Kusel Specialty Programs	481-4197	elsie.kusel@acgov.org			
Jim Morrissey - Supervisor MHOAC Emergency Preparedness and Response	618-2036	jim.morrissey@acgov.org			
Mike Jacobs Specialty Systems of Care	618-2047	michael.jacobs@acgov.org			
Scott Salter Professional Standards	618-2022	scott.salter@acgov.org			
Lee Siegel CCTP Clinical Quality Improvement HEMS	667-3083	lee.siegel@acgov.org			
Andrew Sulyma Unusual Occurences EMS Ordinance Dispatch Liaison	667-7533	andrew.sulyma@acgov.org			
Yolanda Takahashi Community Assessment and Transport Team (CATT) Project Manager	667-7412	yolanda.takahashi@acgov.org			
CERTIFICATIONS	S				
Sonya Lee	618-2034	sonya.lee@acgov.org			

Approved Abbreviations

AAA Abdominal aortic aneurysm CMED Central Medical Emergency Dispatch

Ab abortion CNS central nervous system

ABC airway, breathing, circulation c/o complains of abd abdomen, abdominal CO carbon monoxide

ABG arterial blood gases cod codeine
abn abnormal consc conscious
AC antecubital cont continued

AED automated external defibrillator COPD chronic obstructive pulmonary disease

A-fib atrial fibrillation CP chest pain

AIDS Acquired Immune Deficiency Syndrome CPAP Continuous positive airway pressure

ALCO Alameda County CPR Cardiopulmonary resuscitation

ALOC altered level of consciousness CSF cerebrospinal fluid

ALS advanced life support CSM Circulation, sensation, and movement

am or morning a.m. C-Section cesarean section

C-Spine cervical spine

 AMA
 against medical advice
 CT
 Computerized Tomography

 amb
 ambulatory
 CVA
 cerebrovascular accident

 amp.
 ampule
 D & C
 dilatation and curettage

A+O alert and oriented d/c or ant anterior de'd

approx approximately DCAP-BTLs deformities, contusions, abrasions, punctures, burns, tenderness, lacerations, swelling

Discontinue, discontinued

ASA aspirin burns, tenderness, lac Dextrose 5%. in water

ASAP as soon as possible DDS Doctor of Dental Surgery
ASHD Arteriosclerotic heart disease

ASHD Arteriosclerotic heart disease Dig Digitalis
AV atrioventricular Disch discharged (fr

AV atrioventricular Disch discharged (from hospital)
BBB bundle branch block DM diabetes mellitus
BCP birth control pills DOA dead on arrival
bicarb sodium bicarbonate DOE dyspnea on exertion

bid twice a day DPT diphtheria, pertussis, tetanus

bilat. bilateral DT's delirium tremens
BLS basic life support

BLS basic life support Dr. doctor
BM bowel movement dsg dressing
BP or BP blood pressure Dx diagnosis

BS breath sounds or blood sugar EB or E/B eastbound

С centigrade FD emergency department c with FDC estimated date of confinement C-2 Code 2 FDD Esophageal detection device C-3 Code 3 FFG electroencephalogram CA carcinoma FHR Electronic Health Record CaCI calcium chloride FKG electrocardiogram caps capsules Fmb amholije

cath catheter/catheterize ENT Ear, nose and throat

CAT computerized axial tomography F/O east of СС cubic centimeter Epi Epinephrine CC chief complaint ER Emergency Room CCU Coronary Care Unit FT Endotracheal CHF congestive heart failure

CHF congestive heart failure ETI Endotracheal Intubation cm centimeter ETT Endotracheal tube

I BB left bundle branch block ETCO. Endtidal CO. Lidocaine **ETA** estimated time of arrival lido FTDI A Esophageal tracheal double lumen airway 111 Left Lower Lobe FTOH LLQ Left Lower Quadrant ethyl alcohol exam examination I MP Last Menstrual Period Last Normal Menstrual Period ext external INMP F Fahrenheit LOC Loss Of Consciousness FB foreign body IPM Liters per Minute FBO foreign body obstruction LSD lysergic acid diethylamide FHT fetal heart tone LS luna sounds LUL fr. french Left upper lobe FUO fever of unknown origin LUQ left upper quadrant fx fracture max maximum MCA motorcycle accident g gauge GC Gonococcus mca micrograms gastrointestinal Medicines GI meds Millieguivalent gm aram mEa GOA gone on arrival mg or Milligram (s) mgs arain ar MI Myocardial Infarction **GSW** aunshot wound Min. or gtt. or Minute (s) drop/drops mins atts GU genitourinary min minimum milliliter GYN ml gynecology mm H or hr millimeter hour mod moderate H,O water MRI Magnetic Resonance Imaging **HCTZ** Hydrochlorothiazide MS Morphine sulfate HEENT Head, ears, eyes, nose, and throat MVA HOB head of bed Motor vehicle accident N & V or HS hour of sleep Nausea and vomiting NV ht height NaHC0. Sodium bicarbonate HTN hypertension N/A Not applicable Hx history NAD no acute distress irreg irregular NB or N/B northbound Intensive Care Unit ICU NC Nasal cannula IFO in front of N/G or NG nasogastric 1M intramuscular NKA No known allergies IN intranasal NKDA No known drug allergies inj or injs injury(ies) N/O North of IV intravenous NORM normal IVP intravenous push NPO Nothing by mouth JVD jugular venous distention NRB non-rebreather Κ÷ potassium NRBM non-rebreather mask KCI potassium chloride NS Normal saline kg kilogram NSR Normal sinus rhythm L liter NTG nitroglycerine LA left arm 0, oxvaen lat lateral

lac

lb or lbs

laceration

pound(s)

OB

OBS

obstetrics

Organic Brain Syndrome

Occ occult OD overdose oropharyngeal airway OPA

SB or S/B southbound SL or s1 sublingual Ortho orthopedic oz ounce S/O south of SOAP

pulse subjective, objective, assessment, plan shortness of breath

PAC Premature Atrial Contraction SOB

pulse oximetry (saturation of peripheral palp palpate SpO. oxygen)

Rx

tab

WB or

prescription

subcutaneous

surgery

seizure

tablet

symptom

without

PCR Patient Care Report Form stat immediately

PE or P. E. physical exam ST elevation myocardial infarction

STEMI Ped pedestrian sw stab wound

Pedi pediatric sub-q or sq PFRI Pupils Equal. Reactive to Light

Surg Pupils Equal, Round, Reactive to Light **PERRLA**

Sx Accommodation PID pelvic inflammatory disease SZ

afternoon - evening

pm or p. m.

R

riaht

TB **PMD** private medical doctor tuberculosis PNB pulseless non- breathing Tbsp or T tablespoon

paroxysmal nocturnal dyspnea TCN **PND** Tetracycline

TCP Transcutaneous pacing ро by mouth

POV privately owned vehicle temp temperature TIA transient ischemic attack possible

poss after surgery tid three times a day post-op PRN as needed or when necessary TKO to keep open

trans psych psychiatric transport tsp or t pt or pts patient(s) teaspoon PTA Temp prior to arrival temperature Pul pulmonary Tx treatment

Pulse Ox Pulse oximetry units PVC or UA urinalysis premature ventricular contraction(s)

PVCs URI upper respiratory infection qd every day UTI urinary tract infection ah every hour vag vaginal a2h

every 2 hours VD venereal disease aid four times a day vs vital signs aod every other day

V-tach or Ventricular tachycardia qt quart

westbound W/B RΑ right arm RBBB right bundle branch block Wk or

Week(s) wks rea regular

WNL within normal limits respiration resp wo west of r/o rule out

ws or w/s watt seconds RLL right lower lobe wt weight RI O right lower quadrant times ROM range of motion yο year old

RR respiratory rate year(s) yr or yrs Rt or R riaht

RUL Right upper lobe RUQ Right upper quadrant

	HOSPITALS		SYMBOLS
ACMC AH ABMC CHO EMC JMMC KF KO KSL KWC SLH SRH SRR SMC SUH VCMC WR	Alameda County Medical Center (Highland) Alameda Hospital Alta Bates Medical Center Children's Hospital Eden Medical Center John Muir Medical Center Kaiser Fremont Kaiser Oakland Kaiser San Leandro Kaiser Walnut Creek San Leandro Hospital St. Rose Hospital San Ramon Regional Summit Medical Center Stanford University Hospital ValleyCare Medical Center Willow Rock		with without before after less than greater than less than or equal to greater than or equal to Female Male Increase Decrease equal approximately negative
WTH	Washington Township Hospital	+	positive
	PROVIDER AGENCIES	, ,	feet pounds
ALA ACF ALB BER CHP PRK EBY FLK	Alameda Fire Department Alameda County Fire Department Albany Fire Department Berkeley Fire Department California Highway Patrol Camp Parks Fire Department East Bay Regional Parks Fire Department Falck Ambulance	# @ A % 2°	degree at change percent Secondary to
FRE	Fremont Fire Department		

HAY

LAP

OKL

PIE

Hayward Fire Department

Oakland Fire Department

Piedmont Fire Department

Livermore-Pleasanton Fire Department

ASSAULT | ABUSE | DOMESTIC VIOLENCE

- Routine Medical Care
- •Level of distress Is patient a trauma victim? If yes, see trauma protocol
- Provide emotional support to the victim and the family
- Contact appropriate law enforcement agencies
- 1. **CHILD ABUSE** / **ELDER ABUSE** / **DOMESTIC VIOLENCE:** In any situation where EMS personnel knows or reasonably suspects a person suffering from any wound or other physical injury inflicted upon the person where the injury is the result of <u>assaultive or abusive conduct</u>:
 - 1.1 Immediately notify the appropriate law enforcement agency
 - 1.2 Reasonable effort will be made to transport the patient to a receiving hospital for evaluation. Immediately inform hospital staff of your suspicions
 - 1.3 Document all pertinent observations on the patient care report
 - 1.4 Immediately (or as soon as practical) contact the appropriate agency by telephone and give a verbal report
 - 1.5 A written report for child/elder abuse must be filed within 36 hours

► TO REPORT CHILD ABUSE:

Child Protective Services

24100 Amador St. Hayward, CA 94544

(510) 259-1800 - 24 hour number

▶ TO REPORT ELDER OR DEPENDENT ADULT ABUSE:

→ By staff at a licensed health care facility contact:

Ombudsman (800) 231-4024

→ At home, or by a visitor or another resident at a licensed health care facility contact:

Adult Protective Services

6955 Foothill Blvd., Suite 300

Oakland, CA 94605

(866) 225-5277 - 24 hour number

After 5 pm M-F and weekends, an operator answers this line and can page a social worker (if needed.) If the patient was assaulted or has suffered serious neglect contact local law enforcement.

▶ TO REPORT DOMESTIC VIOLENCE:

Domestic violence is defined as the willful intimidation, physical assault, battery, sexual assault, and/or other abusive behavior as part of a systematic pattern of power and control perpetrated by one intimate partner against another.

- → Notify receiving hospital staff
- → Perform DV Assessment (see section 3)
- 2. **SEXUAL ASSAULT:** Patients should be transported to the appropriate facility for evaluation regardless of the hospital's diversion status
 - 2.1 **Adult patients:** Alameda County Medical Center or Washington Hospital
 - 2.2 **Pediatric patients:** Children's Hospital (≤14 y.o.)



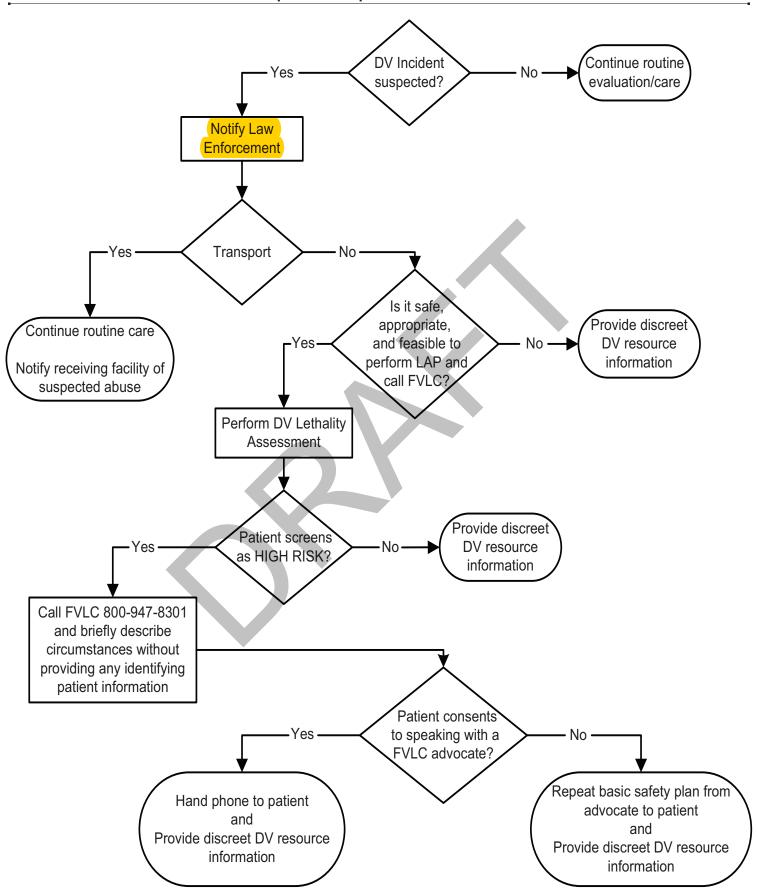
Modified On: May 10, 2019

APS ONLINE REPORT

.. 0 0112...12 112. 011

bit.ly/aps-report

ASSAULT | ABUSE | DOMESTIC VIOLENCE



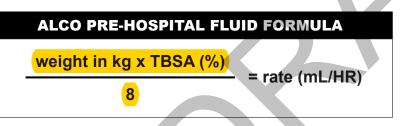
BURN PATIENT CARE

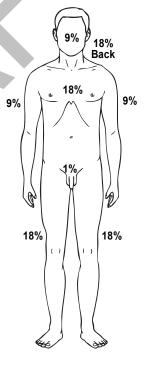
C. TAR BURNS

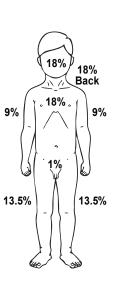
- 1. Do not attempt to remove the tar
- 2. Cool with water
- 3. Maintain body temperature and observe for hypothermia

D. CHEMICAL BURNS

- 1. Remove clothing
- 2. Liquid chemicals:
 - → Flush **immediately** with copious amounts of tepid water for 10 15 minutes
- 3. Dry chemicals:
 - → Brush off as much as possible, then flush with copious amount of tepid water for 10 15 minutes
- 4. Identify chemical
- 5. Assess for associated respiratory burns







SCOPE OF PRACTICE - LOCAL OPTIONAL

- 1. Approved for use in Alameda County all items require additional training
 - 1.1 BLS PERSONNEL:
 - 1.1.1 Aspirin
 - 1.1.2 Pulse Oximetry
 - 1.1.3 Glucometry
 - 1.1.4 Epinephrine
 - 1.1.5 Narcan

1.2 ALS PERSONNEL:

- 1.2.1 Pulse-oximetry
- 1.2.2 Length-based resuscitation tape
- 1.2.3 End-tidal CO₂ detection
- 1.2.4 12-lead EKG
- 1.2.5 <u>C</u>ontinuous <u>P</u>ositive <u>A</u>irway <u>P</u>ressure (CPAP)
- 1.2.6 Intraosseous Infusion Adult and Pediatric
- 2. **Local Optional Scope of Practice** requires authorization from State EMS Authority and additional training
 - 2.1 ALS PERSONNEL:
 - 2.1.1 Hydroxocobalamin (optional)
 - 2.1.2 igel supraglottic airway device (SGA)
 - 2.1.3 Ketorolac (Toradol)
 - 2.1.4 Olanzapine (Zyprexa)
 - 2.1.5 Sodium Thiosulfate
 - 2.1.6 Tranexamic Acid

2.2 BLS PERSONNEL:

- 2.2.1 Supraglottic airway device (SGA) optional (see "Advanced Airway Management" **page** 114)
- 3. Field personnel will not perform any skill that is not a part of his/her scope of practice or has not been authorized by the Alameda County Health Officer and/or EMS Medical Director
- 4. During an inter-facility transfer or during a mutual aid response into another jurisdiction, a paramedic may utilize the scope of practice for which he/she is trained and accredited
- 5. Paramedics will not draw blood unless approved in advance by the EMS Medical Director
- 6. Field personnel are prohibited from carrying any medical equipment or medications that have not been authorized for prehospital use by the Alameda County EMS Medical Director

TRAUMA PATIENT CRITERIA

Modified On: May 10, 2019

- 4. **SPECIAL PATIENT CONSIDERATIONS:** Patients with the following considerations should be considered for transport to a trauma center. *It is highly recommended that you make base contact in these situations*
 - 4.1 **Age**

Anticoagulation consideration removed

- 4.1.1 Older adults
 - → Risk of injury and/or death increases after age 55
 - → SBP <110 may represent shock after age 65
 - → Low impact mechanisms (e.g. ground level falls) may result in severe injury
- 4.1.2 Children (≤ 14 Years of age)
 - → should be triaged preferentially to a pediatric-capable trauma center (e.g.-Children's)
- 4.2 Burns
 - → Without other trauma mechanism: *Triage to burn center*
 - → With trauma mechanism: *Triage to trauma center*
- 4.3 **Pregnancy > 20 weeks**
- 4.4 EMS provider judgement
- 5. **TRANSPORT:** Patients identified as a CTP will be transported to **the closest, most appropriate, designated Trauma Center. Exception:** The patient is identified as a CTP or Potential CTP but presents with one of the following:

PATIENT PRESENTATION	ACTION		
UNMANAGEABLE AIRWAY: The patient requires intubation, and the paramedic is unable to intubate, and an adequate airway cannot be maintained with B.V.M. device.	Closest Basic E.D.		
ADULT TRAUMA ARREST - BLUNT or PENETRATING:	Determination of Death in the Field (page 86) Note: Coroner's personnel must transport all dead bodies. If ordered to move a body by law enforcement, note the time, name, and badge number of the officer, and comply with the request. Ensure that the police officer on scene has contacted the Coroner's Bureau for permission to move the body		
PEDIATRIC TRAUMA ARREST BLUNT or PENETRATING:	 → ETA to the Pediatric Trauma Center ≤ 20 minutes → ETA to the Pediatric Trauma Center ≥ 20 minutes 	Pediatric Trauma Center Closest Adult Trauma Center	

1. **DESCRIPTION** - Tranexamic Acid (TXA) is a Lysine analogue that works to inhibit the formation of plasmin, which is a molecule responsible for clot degradation. It has had multiple medical applications in the past including pre-operative use, menorrhagia, hemophilia and hereditary angioedema. It has recently been shown in multiple studies to reduce mortality in trauma patients meeting specific physiologic criteria or who have obvious signs of massive hemorrhage.

2.

INCLUSION CRITERIA

Within three hours of onset of injury or illness, prehospital administration of TXA should be considered for all patients with blunt or penetrating trauma or other massive uncontrolled bleeding (GI bleeding, vaginal hemorrhage, etc.) that have signs and symptoms of hemorrhagic shock and meet any one of the following inclusion criteria:

- ► SBP < 90 mmHg
- ► Significant hemorrhage with a HR > 120
- ► Bleeding not controlled by direct pressure or tourniquet
- ► Major amputation of any extremity above the wrists or ankles

EXCLUSION CRITERIA

Modified On: May 10, 2019

- ► Any patient <15 years of age
- ► Any patient more than three hours postinjury
- ► Isolated penetrating cranial injury
- ► Traumatic brain injury with brain matter exposed
- ► Suspected cervical cord injury with motor deficits

3. ADMINISTRATION

- 3.1 Administer TXA 1 gram in 100ml NS or D₅W IV/IO over 10 minutes **Do NOT administer IV push. This will cause hypotension.**
- 3.2 Place an approved wristband on the patient.
- 3.3 Follow IV fluid resuscitation guidelines on page 23, "Trauma Patient Care"

Modified On: May 10, 2019

- PURPOSE: To identify acute stroke patients who may be candidates for thrombolysis and specialized care
 at a certified stroke center. Information in this policy is based on the Cincinnati Prehospital Stroke Scale
 (CPSS). The CPSS evaluates using FASTT criteria (Facial droop, Arm drift, Speech abnormalities, Time of
 onset/Transport)
- 2. **Certified Stroke Centers:** The following hospitals have been designated as certified stroke centers. If possible patient should be transported to the patient's regular source of hospitalization and/or healthcare.
 - → Alameda Hospital , Alameda
 - → Eden Medical Center, Castro Valley
 - → Kaiser Hospital, Fremont
 - → Kaiser Hospital, Oakland
 - → Kaiser Hospital. San Leandro
 - → Summit Medical Center, Oakland
 - → ValleyCare Hospital, Pleasanton
 - → Washington Hospital, Fremont

Consider transport to one of the following out-of-county centers, if appropriate. Contact the stroke center prior to transport.

- → San Ramon Medical Center, San Ramon
- → Stanford University Medical Center, Palo Alto
- → John Muir Medical Center, Walnut Creek
- → Kaiser Hospital, Walnut Creek
- → Regional Medical Center, San Jose
- 3. Assessment and transport of suspected Acute Stroke patient:
 - → Provide routine medical care including pulse oximetry
 - → Obtain blood glucose
 - → Assess the patient using the Cincinnati Prehospital Stroke Scale
- ▶ Note: Early transport is essential if CPSS is positive

ACUTE STROKE

Cincinnati Prehospital Stroke Scale				
Sign/Symptom	How Tested	Normal	Abnormal	
Facial Droop	Have the patient show their teeth or smile	Both sides of the face move equally	One side of the face does not move as well as the other	
A rm Drift	The patient closes their eyes and extends both arms straight out for 10 seconds	Both arms move the same, or both do not move at all.	One arm either does not move, or one arm drifts downward compared to the other.	
S peech	The patient repeats "The sky is blue in Cincinnati".	The patient says correct words with no slurring of words.	The patient slurs words, says the wrong words, or is unable to speak	
Time of Onset must be within 24 hours, observed by a reliable witness or reported by a reliable patient (for thrombolysis)				
Transport The patient is considered a <u>possible</u> Acute Stroke patient if <u>any</u> of the tested signs/symptoms are abnorma and must be transported to the closest, most appropriate certified stroke center. If possible, patient should be transported to the patient's regular source of hospitalization and/or healthcare.				

4. The patient may be a candidate for thrombolysis if all of the following are true:

- → One or more of the CPSS signs/symptoms are present.
- → CPSS signs/symptoms were initially observed within 24 hours of contact by a reliable witness or reported by a reliable patient.

Please note: Ask when the patient was last seen at normal baseline **and** when the onset of new stroke signs and symptoms appeared.

→ Normal blood glucose level is obtained

Make sure to either:

- ▶ transport the witness to the stroke center in the ambulance (PREFERRED); OR,
- ▶ if driving, tell him/her to leave immediately and meet you at the stroke center; AND,
- ▶ obtain a contact number where the witness can be reached by the attending physician

5. Treatment and support guidelines (to be done en route)

- → Transport patient in supine position. If this position is not tolerated or there is evidence of increasing intracranial pressure/intracranial hemorrhage, transport in semi fowlers with no more than 30° head elevation
- \rightarrow O₂ titrate to 94-99% SpO₂
- → Establish IV access enroute using an 18 gauge (no smaller than 20 gauge) proximal to wrist (AC preferred). No more than 1 AC attempt and no more than 2 IV attempts total. *Maintain with a saline lock or IV infusion set TKO*
- → Obtain a 12-Lead EKG enroute when a dysrhythmia or ACS symptoms are present (specifically watch for STEMI and/or atrial fibrillation)
- 6. Immediately call the designated stroke center via phone and/or radio and notify them that you are transporting a "possible Acute Stroke patient by the Cincinnati Prehospital Stroke Scale (CPSS), ETA ____ minutes". (**Reminder:** See "Diversion Criteria" or the information on **page v** of the field manual regarding CT Diversion)
- 7. Document the results of the assessment on the EHR and specifically describe any of the CPSS signs and/or symptoms that were abnormal

MEDICATIONS - AUTHORIZED | STANDARD INITIAL DOSE

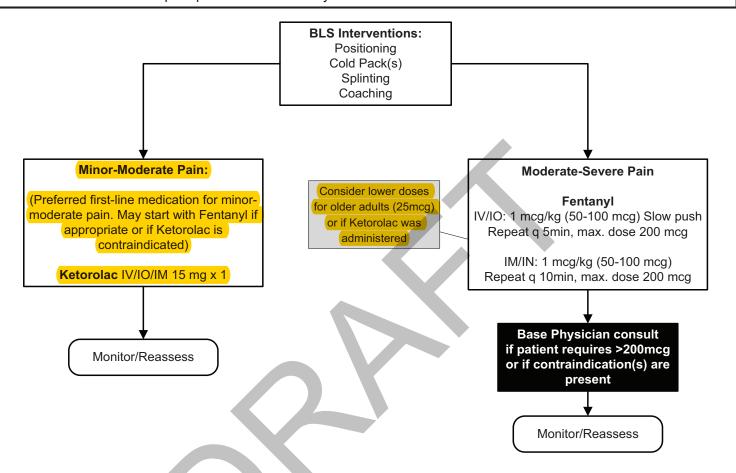
	·
Adenosine	1st dose: 6 mg; 2nd dose: 12 mg (rapid <i>IV/IO</i> push)
Albuterol	5 mg in 6 ml normal saline
Amiodarone	Wide complex Tachycardia: 150 mg <i>IV/IO</i> over 10 mins VF/VT: 1st dose: 300 mg <i>IV/IO</i> ; 2nd dose: 150 mg <i>IV/IO</i> Follow each dose with 20mL NS flush. (two doses only)
Aspirin	162 mg chewable or 324 mg (5gr.) tablet - not enteric coated)
Atropine sulfate	Bradycardia: 0.5 mg <i>IV/IO</i> - (max total 3 mg - 6 doses)
Calcium chloride 10%	1 gm over 2 minutes <i>IV/IO</i>
Charcoal	1 gm/kg (Max 50 gms) PO
Dextrose 10%	10 gms <i>IV/IO</i>
Diphenhydramine (Benadryl)	Allergic Reaction: 1 mg/kg /V/IO/IM up to 50 mg
Epinephrine 1mg/mL	Anaphylaxis: 0.3 mg-0.5 mg <i>IM</i> Bronchospasm: 0.01 mg/kg <i>IM</i> (max dose 0.5mg)
Epinephrine 0.1mg/mL	Anaphylactic shock: 1mL (0.1mg) <i>IV/IO</i> slowly Cardiac arrest: 10mL (1 mg) <i>IV/IO</i> Cardiogenic/Distributive Shock: Diluted to 0.01mg/ml (10mcg/ml), 0.5ml (5mcg) <i>slow IV/IO</i>
Fentanyl	Pain Management: 25-100 mcg /V/IO/IM/IN (max. single dose 100 mcg
Glucagon	1 mg ///
Oral Glucose	30 gms PO
Ipratropium (Atrovent)	500 mcg (2.5 ml unit dose) <i>Via nebulizer</i>
Lidocaine 2%	40 mg IO (2 mL) slowly (1 ml over 30 seconds)
Ketorolac (Toradol)	15 mg IM/IV/IO
Midazolam (Versed)	Sedation: IV (slowly) / IN (briskly): 1-2 mg, IM: 2-4 mg (if no IV) Seizure: IM/IN: 10 mg, IV/IO: 0.1 mg/kg - max dose 10 mg
Naloxone (Narcan)	Initial dose: Titrated up to 2 mg <i>IV/IM/IN</i> BLS Providers may only use IN Route. Max. initial dose is 2 mg
Nitroglycerine spray	0.4 mg metered spray or tablet
Normal saline	250 - 500 ml <i>IV/IO</i> fluid bolus
Olanzapine (Zyprexa)	10 mg PO orally dissolving tablet
Ondansetron (Zofran)	4 mg <i>IV</i> †Slowly over 30 seconds or 4 mg <i>IM/PO</i> (oral dissolving tablets) (†rapid IV administration <30 seconds can cause syncope)
Oxygen (titrate to 94%-99% SpO2)	2 - 6 L/nasal cannula 15 L/non-rebreather mask
Sodium bicarbonate	1 mEq/kg <i>IV/IO</i>
Sodium thiosulfate	12.5 grams <i>IV/IO</i> over 10 minutes
Tranexamic Acid- TXA	1 gram in 100ml NS or D5W <i>IV/IO</i> over 10 minutes

Patient Care Policy (Adult) Reformatted, Ketorolac Added Modified On: May 10, 2019

PAIN MANAGEMENT

Routine Medical Care

- •Pain management should be initiated as early as possible and before transport in the stable patient. Consider pain management prior to the manipulation of suspected fractures
- •Document the level of pain prior to and after any interventions



Ketorolac Considerations:

Indications:

The preferred medication for patients with suspected kidney stones or chronic back pain

Contraindications:

- Patients who meet Trauma Criteria
- NSAID Allergy (e.g. Ibuprofen, Naproxen, Aspirin)
- History of: Asthma, GI Bleed, Ulcers, Renal disease
- Current anticoagulant use

Fentanyl may be administered if Ketorolac is ineffective (use a lower dose of Fentanyl if Ketorolac was given)

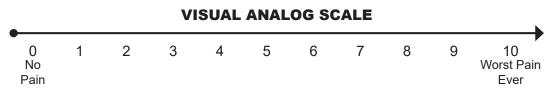
Fentanyl Considerations:

Contraindications:

- Systolic BP <90
- Decreased respiratory rate
- Altered mental status
- Suspected Traumatic Brain Injury

Notes:

- Capnography monitoring is recommended
- Burn patients may require higher doses
- Have Naloxone readily available
- Ketorolac may be administered if Fentanyl is ineffective

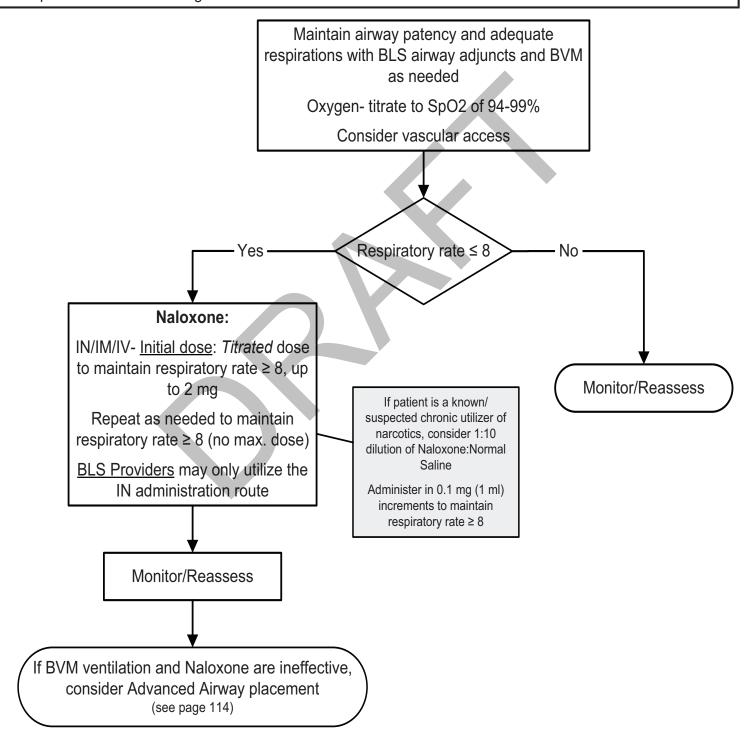




Modified On: May 10, 2019

RESPIRATORY DEPRESSION OR APNEA (SUSPECTED NARCOTIC OD)

- Routine Medical Care
- Naloxone can cause acute withdrawal symptoms (agitation, vomiting, etc.) in patients who are chronic utilizers of narcotics
- Naloxone can cause cardiovascular side effects (chest pain, pulmonary edema) or seizures in a small number of patients (1-2%)
- •Older patient are at higher risk for cardiovascular complications
- Patients who are maintaining adequate respirations with decreased level of consciousness do not generally require Naloxone for management



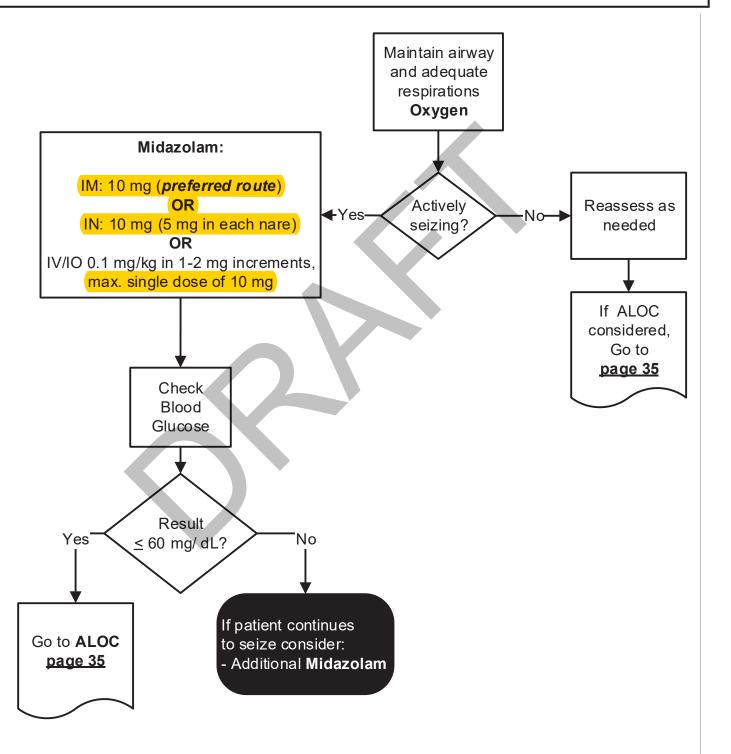
Modified On: May 10, 2019

Routine Medical Care

•Midazolam should not be given unless the patient is actively seizing - 3 or more seizures in ≤ 5 minutes or any seizure lasting > 5 minutes.

SEIZURE

•Protect the patient from further injury by padding or moving objects as necessary; do not forcibly restrain the patient



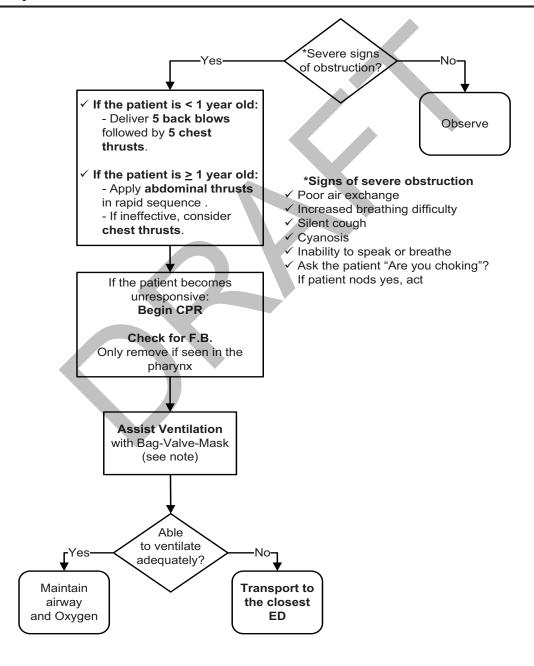
SEIZURE 49

AIRWAY OBSTRUCTION

Modified On: May 10, 2019

Pediatric Routine Medical Care

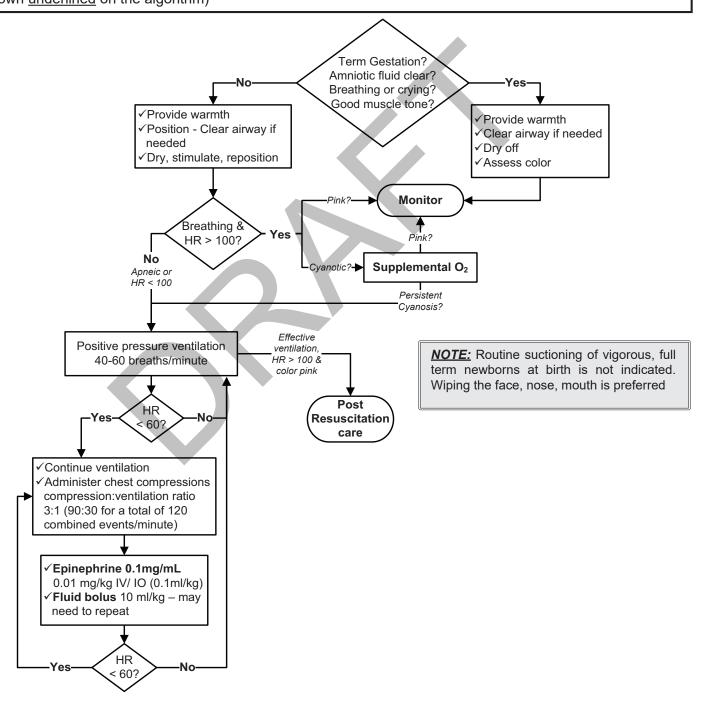
- •If airway obstruction is caused by laryngeal trauma, see page 24 "Trauma Patient Care"
- •Do not use a tongue/jaw lift or perform blind finger sweeps
- Obstruction due to suspected epiglottitis:
 - → Do not attempt to visualize the throat or insert anything into the mouth
 - → Minimize outside stimulation. Keep the patient calm. Position of comfort.
- **Note:** Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary. Consider Advanced Airway Management (page 114) if BVM ventilation is not adequate.
- Rapid Transport



NEONATAL RESUSCITATION

Pediatric Routine Medical Care

- •Resuscitation should be initiated on **all** premature infants who meet the following criteria: **Weight:** > 500 gms or 1 pound <u>and</u> **Gestational Age:** ≥ 20-24 weeks
- If naloxone considered for persistent respiratory depression, HR and color must first be restored
- Avoid naloxone for neonates whose mothers are suspected of long-term exposure to opiods
- **Note:** Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary. Consider Advanced Airway Management (page 114) if BVM ventilation is not adequate.
- •Use an LBRT to determine pediatric drug doses (Shown underlined on the algorithm)



PAIN MANAGEMENT

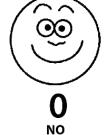
- Pediatric Routine Medical Care. If oxygen is adminstered, titrate to 94-99% SpO2
- Pain management should be initiated as early as possible and before transport in the stable patient. Consider pain management prior to the manipulation of suspected fractures
- •The preferred route of administration is intranasal (IN)

ASSESSMENT:

Document level of pain (as a fraction - e.g.: 2/10 or 6/10) prior to and after any interventions are performed:

- ► < 3 years old Behavioral tool or FACES Scale:
- ► 3–7 years old FACES scale or visual analog scale
- ► 8–14 years old visual analog scale

	0	1	2
Face	No particular expression	Occasional grimace or	Frequent to constant frown
	or smile	Frown, withdrawn, disinterested	Clenched jaw, quivering chin
Legs	0	1	2
Legs	Normal or relaxed position	Uneasy, restless, tense	Kicking, or legs drawn up
	0	1	2
Activity	Lying quietly, normal	Squirming, tense, shifting	Arched, rigid or jerking
	position, moves easily	Back and forth	
	0	1	2
Cry	No cry (awake or asleep)	Moans or whimpers;	Cries steadily, screams,
	,	occasional complaint	sobs, frequent complaints
	0	1	2
Consolability	Content, relaxed	Reassured by "talking to,	Difficult to console
		hugging; distractible	or comfort













HURT

HURTS LITTLE BIT

HURTS LITTLE MORE

HURTS EVEN MORE

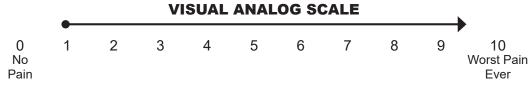
HURTS WHOLE LOT

From Wong D.L., Hockenberry-Eaton M., Wilson D., Winkelstein M.L., Schwartz P.: Wong's Essentials of Pediatric Nursing, ed. 6, St. Louis, 2001, p. 1301. Copyrighted by Mosby, Inc. Reprinted by permission.

Instructions:

Explain to the person that each face is for a person who feels happy because he has no pain (hurt) or sad because he has some or a lot of pain. Ask the person to choose the face that best describes how he/she is feeling

- → Face 0 is very happy because he doesn't hurt at all
- → Face 2 hurts just a little bit
- → Face 4 hurts a little more
- → Face 6 hurts even more
- → Face 8 hurts a whole lot
- → Face 10 hurts as much as you can imagine, although you don't have to be crying to feel this bad



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PAIN MANAGEMENT

- Pediatric Routine Medical Care. If oxygen is adminstered, titrate to 94-99% SpO2
- Pain management should be initiated as early as possible and before transport in the stable patient. Consider pain management prior to the manipulation of suspected fractures
- •The preferred route of administration is intranasal (IN)

BLS Interventions: Positioning Cold Pack(s) Splinting Coaching

ALS Intervention:

Fentanyl

IN/IM: 2 mcg/kg (max. single dose 100 mcg) Repeat q 10 min, max. total dose 200 mcg

IV/IO: 2 mcg/kg (max. single dose 100 mcg) Slow push Repeat q 5 min, max. total dose 200 mcg

Base Physician consult
if patient requires > 200 mcg
or if contraindication(s) are
present

Monitor/Reassess

Fentanyl Considerations: Contraindications:

- Age-adjusted hypotension
- Decreased respiratory rate
- Altered mental status
- Suspected Traumatic
 Brain Injury

Notes:

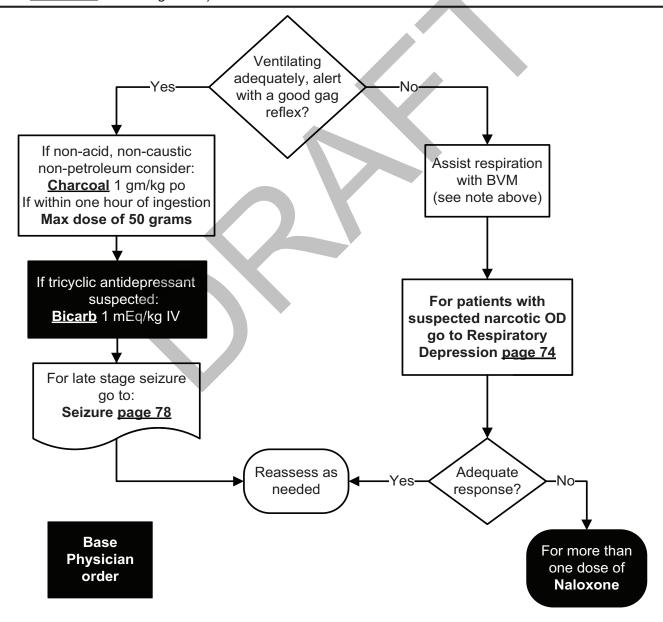
- Capnography monitoring is recommended
- Burn patients may require higher doses
- Have Naloxone readily available

Pediatric Fentanyl Dose Chart (2 mcg/kg)					
	50 mcg/mL				
WEIGHT	DOSE	VOLUME			
5 kg	10 mcg	0.2 mL			
10 kg	20 mcg	0.4 mL			
20 kg	40 mcg	0.8 mL			
30 kg 60 mcg 1.2 mL					
40 kg	80 mcg	1.6 mL			
> 50 kg	100 mcg	2 mL			

POISONING | INGESTION | OVERDOSE

- Pediatric Routine Medical Care
- Protect Yourself! See page 157 "Medical Management of Hazardous Materials"
- •Identify substance contact the Base Physician regarding other treatment options. Bring any containers, labels or a sample (if safe) into the hospital with the patient
- •Determine type, amount, and time of the exposure
- Base Physician consult for treatment options if suspecting: organophosphate poisoning, or calcium channel or beta blocker OD. Consider contacting Poison Control for other substances **800-222-1222**
- •Remove contaminated clothing. Brush powders off, wash off liquids with large amount of water
- •Withhold charcoal if rapidly decreasing level of consciousness a possibility (e.g., tricyclic OD)
- **Note:** Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary. Consider Advanced Airway Management (pg. 118) if BVM ventilation is not adequate.
- •Use an LBRT to determine pediatric drug doses

(Shown underlined on the algorithm)



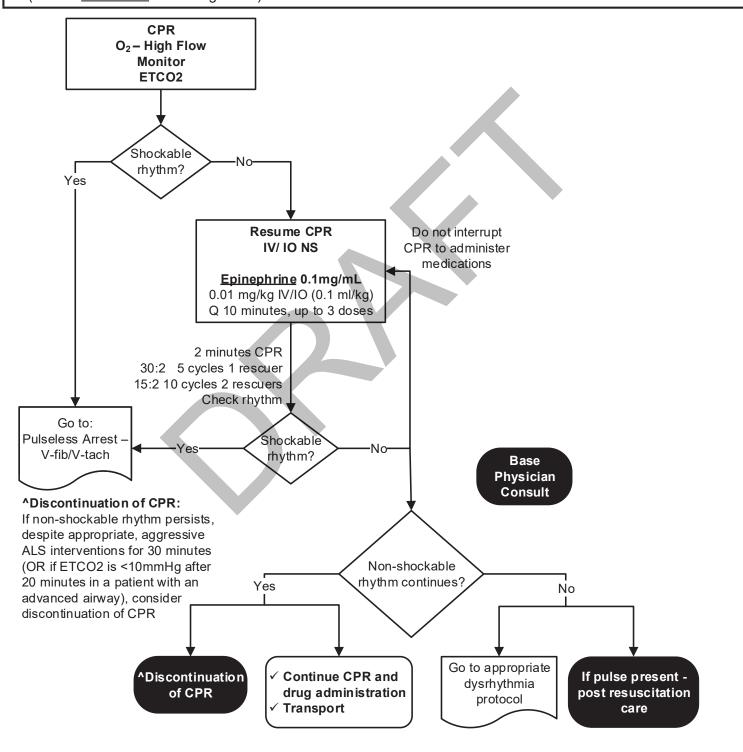
PULSELESS ARREST: ASYSTOLE, PEA

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Pediatric Routine Medical Care

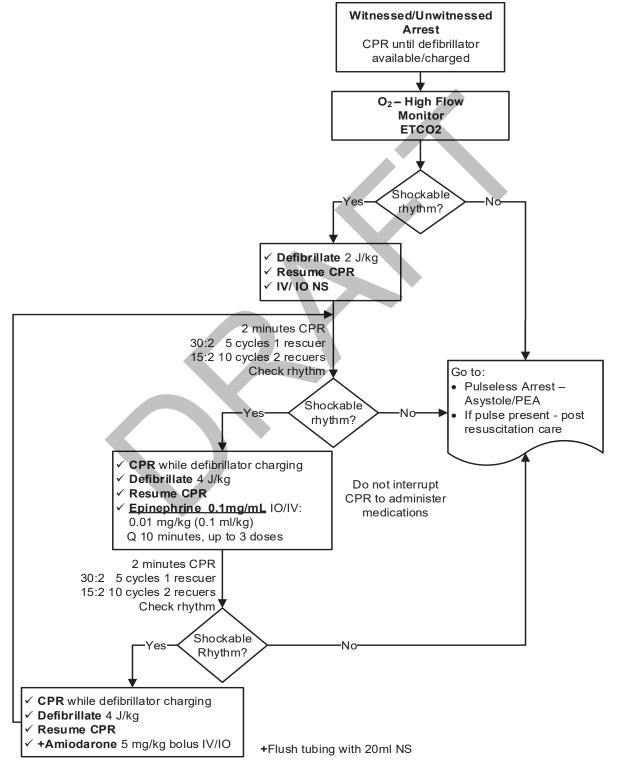
- •In PEA, identify other causes and treat (See CPR page 9)
- •Note: Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary. Consider Advanced Airway Management (page 114) if BVM ventilation is not adequate.
- •Use an LBRT to determine pediatric drug doses

(Shown <u>underlined</u> on the algorithm)



PULSELESS ARREST: VF/VT

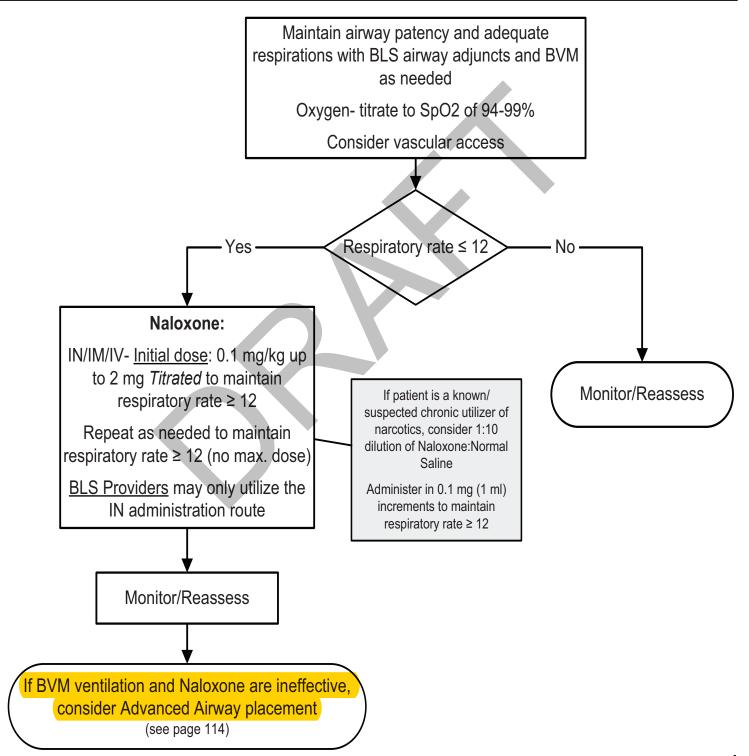
- Pediatric Routine Medical Care
- •Note: Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary. Consider Advanced Airway Management (page 114) if BVM ventilation is not adequate
- •Use an LBRT to determine pediatric drug doses (Shown underlined on the algorithm)



RESPIRATORY DEPRESSION OR APNEA (SUSPECTED NARCOTIC OD)

Modified On: May 10, 2019

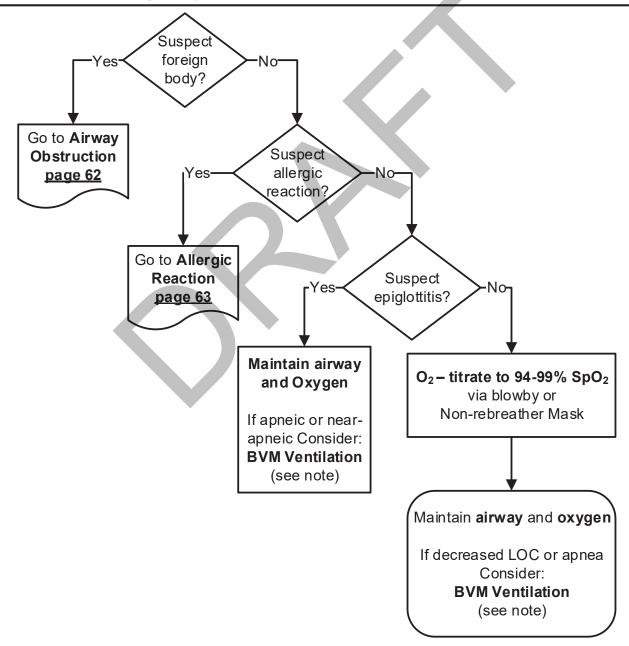
- Routine Medical Care
- Naloxone can cause acute withdrawal symptoms (agitation, vomiting, etc.) in patients who are chronic utilizers of narcotics
- Naloxone can cause cardiovascular side effects (chest pain, pulmonary edema) or seizures in a small number of patients (1-2%)
- Patients who are maintaining adequate respirations with decreased level of consciousness do not generally require Naloxone for management



RESPIRATORY DISTRESS (STRIDOR) - UPPER AIRWAY

- Pediatric Routine Medical Care
- CROUP/EPIGLOTTITIS:
- → If the patient deteriorates, or becomes completely obstructed, positive pressure ventilation via bag-valve-mask should be attempted
- → **Do not** attempt to visualize the throat or insert anything into the mouth if epiglottitis suspected
- → Allow a parent to hold the child or the O₂ mask if the presence of the parent calms the child
- → Minimize outside stimulation. Keep the patient calm
- → Position of comfort
- **Note:** Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary. Consider Advanced Airway Management (page 114) if BVM ventilation is not adequate
- •Use an LBRT to determine pediatric drug doses

(Shown underlined on the algorithm)



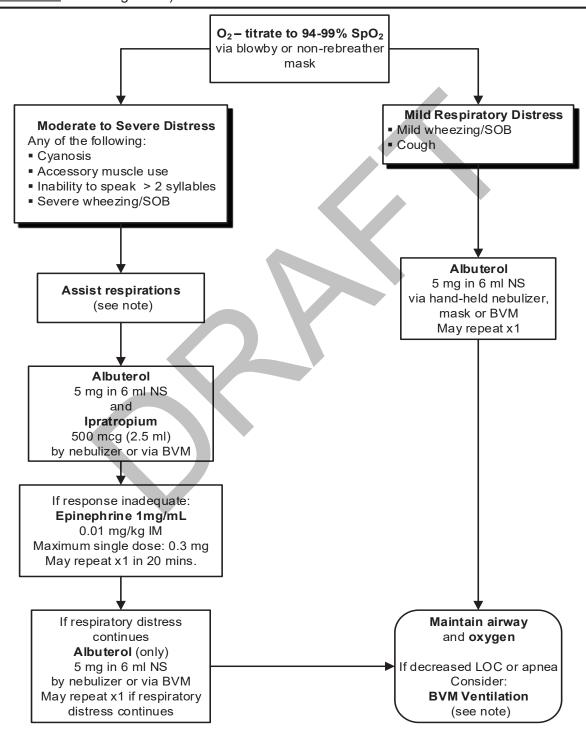
RESPIRATORY DISTRESS (WHEEZING) – LOWER AIRWAY

Modified On: May 10, 2019

Pediatric Routine Medical Care

- Position of comfort
- **Note:** Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary. Consider Advanced Airway Management (page 114) if BVM ventilation is not adequate
- •Use an LBRT to determine pediatric drug doses

(Shown <u>underlined</u> on the algorithm)



ROUTINE MEDICAL CARE - PEDIATRIC

The defined age of a pediatric patient is **14 years old or less**, and unless specified otherwise, pediatric protocols should be used to treat these patients. Note: An infant is considered to be < 1 year old. A child is considered to be ≥ 1 year old. Specified ages for transport or treatment other than 14 years old include:

TRANSPORT 5150 Psych Evaluation (page 133): → Children (≤ 11 y.o.) – Children's Hospital → Adolescents (≥ 12 v.o. & ≤ 17 v.o.) – Willow Rock

Trauma Destination (page 26):

- → ≤ 14 y.o. Children's Hospital
- → ≥ 15 v.o. Closest Adult Trauma Center

Sexual Assault (page 3):

- → Children (≤ 14 y.o.) Children's Hospital
- → All Others (≥ 15 y.o.) Highland or Washington

TREATMENT

Advanced Airway Management (page 114):

→ <40kg- authorized airway is OPA/NPA, BVM, or SGA

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CPAP (page 122):

- → < 8 y.o. Absolute Contraindication
- IO Access (page 130 or page 131):

Refusal of Care (page 117):

→ ≤ 17 y.o. may not refuse transport or treatment unless legally emancipated

A pediatric LBRT will be used to determine drug doses, fluid volumes, defibrillation settings and equipment sizes. The tape is designed to estimate a child's weight based on length (head to heel).

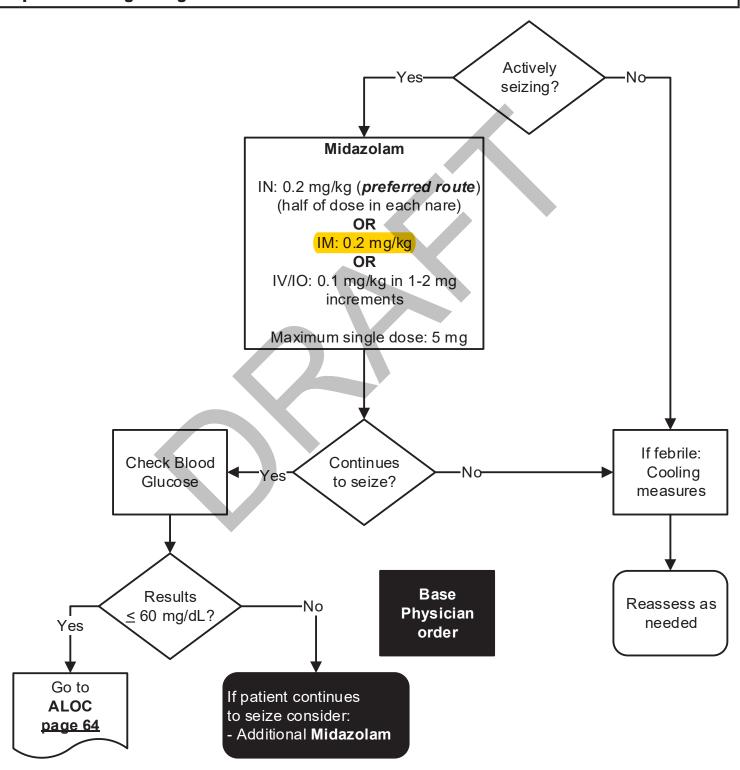
PRIMARY SURVEY	SPECIAL CONSIDERATIONS		
Establish level of responsiveness	► AVPU: A lert, V erbal, P ainful, U nresponsive		
Evaluate airway and protective airway reflexes	→ stridor → drooling → tachypnea → thereostal retractions → grunting → nasal flaring → nasal flaring		
Secure airway	 ▶ Open airway using jaw-thrust and chin-lift (and/or head tilt if no suspected spinal trauma). Suction as needed. Consider placement of an oral or nasal airway adjunct if the child is unconscious ▶ If cervical spine trauma is suspected, see page 139 		
	► Use chest rise as an indicator of ventilation		
Assess need for ventilatory assistance	→ quality of pulse → capillary refill → blood pressure		
Evaluate and support	▶ Perform a head-to-toe assessment, including temperature		
	Obtain a patient history Do any ironmental accomment, consider passibility of intentional injury		
Hemorrnage	 ▶ Do environmental assessment, consider possibility of intentional injury ▶ Perform a head-to-toe assessment, including temperature 		
Continue with secondary survey	 ▶ Obtain a patient history ▶ Do environmental assessment, consider possibility of intentional injury 		
Determine appropriate treatment protocols	 ▶ Provide family psychosocial support ▶ For drugs not on the LBRT see <u>page 68</u> "Pediatric Drug Chart" ▶ When starting an IV/IO/saline lock, use chlorhexidine as a skin prep ▶ Label insertion site with "PREHOSPITAL IV – DATE and TIME" ▶ Pediatric patients are subject to rapid changes in body temperature. Steps 		

SEIZURE

Modified On: May 10, 2019

Pediatric Routine Medical Care

- •Midazolam should <u>not</u> be given unless the patient is actively seizing 3 or more seizures in ≤ 5 minutes or any seizure lasting > 5 minutes
- Cooling Measures: Loosen clothing and/or remove outer clothing/blankets
- •Use the ALCO EMS mobile app, the chart on the following page, or an LBRT to determine pediatric drug dosages.



SEIZURE - MIDAZOLAM DRUG CHART

MIDAZOLAM (Versed) 5 mg/ml Pediatric Dose Chart (For Indicated Seizures Only)

00 4 4 mg ml mg 1 1 ml

EQUIPMENT AND SUPPLY REQUIREMENTS AND INSPECTION

- 1. **EQUIPMENT AND SUPPLIES:** The provider agency is responsible for providing a full inventory of equipment and supplies to its units
- 2. All ALS and BLS patient care response vehicles (transporting and non-transporting) shall have at a minimum, all equipment and supplies specified in "Equipment and Supply Specifications ALS/BLS" (page 96). This policy does not supersede the California Vehicle Code or California Code of Regulations, Title 13 requirements for ambulance equipment. In addition, each patient care response vehicle shall have:
 - 2.1 Adequate space in the patient care compartment to accommodate one stretcher, a patient(s) and two providers. There must be sufficient space to allow for patient care activities during transport
 - 2.2 County approved communications equipment capable of contact with receiving hospitals, base hospitals, and other provider agencies during an MCI or mutual aid situation
 - 2.3 Personal protective equipment in accordance with Cal/OSHA standards and/or California EMSA Guideline #216
- 3. Each ALS provider (transport and non-transport) shall have an approved controlled substance/medication restock procedure on file with the EMS Agency
- 4. **INSPECTION:** Alameda County EMS Agency personnel may inspect any BLS, CCT and/or ALS mobile unit at any time for compliance with the identified standards for equipment and personnel see "Equipment and Supply Specifications ALS/BLS" **page 96**
 - ▶ Deficiencies may result in the unit's removal from service until the deficiencies are remedied
 - ► The Alameda County EMS Agency will notify the service provider agency's designated management representative immediately of the infraction



MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS Non-Transport	ALS Transport
AIRWAY EQUIPMEN	NT.	Non-Transport	Transport
▼Airways:			
Oropharyngeal (Sizes 0 - 6)	1 each	1 each	2 each
Nasopharyngeal (soft rubber)			
»14 Fr., 18 Fr., 22 Fr., 26Fr	1 each	1 each	1 each
»30 Fr		1	1
»32 Fr	1	1	2
»34 Fr	1	1	1
► Atomizer for intranasal medication administration	1	1	3
➤ Continuous Positive Airway Pressure Device Variable flow generator to allow control of O₂ concentrations from 28 to 100% at flows from 0 to 140 L/min. or disposable, County approved CPAP device.		1	1
▶Impedance Threshold Device (ResQPOD®)		1	1
▼Intubation Equipment:			
County approved video laryngoscopy device		1 (optional)	1 (optional)
Laryngoscope (handle)			1
Batteries (extra)		1 set	1 set
Blades (curved McIntosh):			
 Adult 			
»# 4		1	1
»#3		1	1
● Pediatric			
»# 2			1
»# 1		1	1
Adult (Straight Miller)			
»# 4		1	1
»#3		1	1
◆ Pediatric			
»# 2			1
»# 1		1	1
Magill forceps:			
»Adult			1
»Pediatric		1	1
Adult (cuffed with adaptor)			
»Size 6.0			2
»Size 6.5			2
»Size 7.0			2
»Size 7.5			2
»Size 8.0		1	2
Stylet			

*Adult	MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS	ALS
• igel Supraglottic Airway) Size 1.0			Non-Transport	Transport
*Size 1.0.			1	1
*Size 1.5. *Size 2.0. *Size 2.5. *Size 3. *Size 4. *Size 5. *Disposable Waveform Capnography *ET Tube Holder *Adult				
*Size 2.0		4	1 (optional)	1 (optional)
Size 2.5.* **Size 3.*** **Size 4.**** **Disposable Waveform Capnography.** **ET Tube Holder **Adult			1	
*Size 3			1	
*Size 4			1	
Size 5 1 1 1 • Disposable Waveform Capnography 2 (optional) 2 5 • ET Tube Holder 2 3 • Adult 2 3 • Tracheal tube introducer (bougie) 1 2 • Patient Activated 1 2 • Patient Activated 1 2 • Hand-held for Inhalation 1 2 • In-Line nebulizer equipment with 22 & 24 mm "T-piece" 1 2 • O₂ Tank (portable) 1 1 1 • O₂ Tank (portable) 1 1 1 1 • Non-rebreather masks (transparent) 2 1 2 • Adult 2 1 2 • Pediatric/Infant 1 1 1 • Nasal cannula for O₂ administration 2 1 2 • Portable Pulse-Oximetry 1 1 1 • Pediatric end-tidal CO₂ sampling nasal cannula 1 1 1 • Pediatric end-tidal CO₂ sampling nasal cannula 1 1 1 • County-approved pleural decompression kit 1 1			1	
• Disposable Waveform Capnography. 2 (optional) 2 5 • ET Tube Holder 2 3 • Adult 2 3 • Tracheal tube introducer (bougie) 1 2 V Nebulizer 1 2 • Patient Activated 1 2 • Hand-held for Inhalation 1 2 • In-Line nebulizer equipment with 22 & 24 mm "T-piece" 1 2 • O₂ Tank (portable) 1 1 1 • Non-rebreather masks (transparent) 2 1 2 • Adult 2 1 1 • Pediatric/Infant 1 1 1 • Nasal cannula for O₂ administration 2 1 2 • Portable Pulse-Oximetry 1 1 1 • Adult end-tidal CO₂ sampling nasal cannula 1 1 • Pediatric end-tidal CO₂ sampling nasal cannula 1 1 • County-approved pleural decompression kit 1 2 V Resuscitation bag-valve with O₂ reservoir 1 1 1 • Adult 1 1 1 1			1	
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»Adult 2 3 ● Tracheal tube introducer (bougie) 1 2 ▼ Nebulizer 1 2 ● Patient Activated 1 2 ● Hand-held for Inhalation 1 2 ● In-Line nebulizer equipment with 22 & 24 mm "T-piece" 1 2 ▼ Oxygen equipment and supplies: 1 1 1 ● O₂ Tank (portable) 1 1 1 1 • Non-rebreather masks (transparent) 2 1 2 2 » Pediatric/Infant 2 1 1 1 1 » Nasal cannula for O₂ administration 2 1 2 2 2 2 1 2 2 2 1		2 (optional)	2	5
● Tracheal tube introducer (bougie) 1 2 ▼ Nebulizer 1 2 ● Patient Activated 1 2 ● Hand-held for Inhalation 1 2 ● In-Line nebulizer equipment with 22 & 24 mm "T-piece" 1 2 ▼ Oxygen equipment and supplies: 1 1 1 ● O₂ Tank (portable) 1 1 1 ● Non-rebreather masks (transparent) 2 1 2 » Pediatric/Infant 1 1 1 » Pediatric/Infant 2 1 2 » Pediatric/Infant 2 1 2 » Pediatric/Infant 1 1 1 » Pediatric Infant 2 1 2 » Portable Pulse-Oximetry 1 1 1 » Portable Pulse-Oximetry 1 1 1 » Pediatric end-tidal CO₂ sampling nasal cannula 1 1 » Pediatric end-tidal CO₂ sampling nasal cannula 1 1 • County-approved pleural decompression kit 1 2 ▼ Resuscitation bag-valve with O₂ reservoir 1 1				_
▼ Nebulizer 1 2 • Patient Activated 1 2 • Hand-held for Inhalation 1 2 • In-Line nebulizer equipment with 22 & 24 mm "T-piece" 1 2 ▼ Oxygen equipment and supplies: 1 1 1 1 • O₂ Tank (portable) 1 1 1 1 1 • Non-rebreather masks (transparent) 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2				
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 Hand-held for Inhalation				
• In-Line nebulizer equipment with 22 & 24 mm "T-piece"				2
▼Oxygen equipment and supplies: 1 1 1 • O₂ Tank (portable) 1 1 1 • Non-rebreather masks (transparent) 2 1 2 » Adult 2 1 1 » Pediatric/Infant 1 1 1 » Nasal cannula for O₂ administration 2 1 2 » Portable Pulse-Oximetry 1 1 1 » Portable Pulse-Oximetry 1 1 1 » Adult end-tidal CO₂ sampling nasal cannula 1 1 1 » Pediatric end-tidal CO₂ sampling nasal cannula 1 1 1 ▶ County-approved pleural decompression kit 1 2 ▼ Resuscitation bag-valve with O₂ reservoir 1 1 1 1 • Adult 1 1 1 1 1 • Pediatric 1 1 1 1 1				2
 O₂ Tank (portable) Non-rebreather masks (transparent) »Adult »Pediatric/Infant »Nasal cannula for O₂ administration »Portable Pulse-Oximetry »Adult end-tidal CO₂ sampling nasal cannula »Pediatric end-tidal CO₂ sampling nasal cannula »Pediatric end-tidal CO₂ sampling nasal cannula PCounty-approved pleural decompression kit ▼Resuscitation bag-valve with O₂ reservoir •Adult Pediatric 1 			1	2
Non-rebreather masks (transparent)	▼Oxygen equipment and supplies:			
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»Pediatric/Infant 1 1 »Nasal cannula for O₂ administration 2 1 »Portable Pulse-Oximetry 1 1 »Adult end-tidal CO₂ sampling nasal cannula 1 1 »Pediatric end-tidal CO₂ sampling nasal cannula 1 1 *Pediatric end-tidal CO₂ sampling nasal cannula 1 1 *Pediatric end-tidal compression kit 2 1 *Pediatric end-tidal compression kit 1 1 *Pediatric end-tidal compression kit 1 1 **Pediatric	Non-rebreather masks (transparent)			
 »Nasal cannula for O₂ administration »Portable Pulse-Oximetry »Adult end-tidal CO₂ sampling nasal cannula »Pediatric end-tidal CO₂ sampling nasal cannula Pediatric end-tidal CO₂ sampling nasal cannula T County-approved pleural decompression kit T ▼Resuscitation bag-valve with O₂ reservoir • Adult • Pediatric T <li< td=""><td></td><td></td><td>1</td><td>2</td></li<>			1	2
»Portable Pulse-Oximetry 1 1 1 »Adult end-tidal CO₂ sampling nasal cannula 1 1 1 »Pediatric end-tidal CO₂ sampling nasal cannula 1 1 1 ▶ County-approved pleural decompression kit 1 2 ▼ Resuscitation bag-valve with O₂ reservoir 1 1 1 1 • Adult 1 1 1 1 1 • Pediatric 1 1 1 1 1			1	1
 »Adult end-tidal CO₂ sampling nasal cannula			1	2
 »Pediatric end-tidal CO₂ sampling nasal cannula			1	1
▶ County-approved pleural decompression kit 1 2 ▼ Resuscitation bag-valve with O₂ reservoir 1 1 1 1 • Adult	»Adult end-tidal CO ₂ sampling nasal cannula		1	1
▼Resuscitation bag-valve with O₂ reservoir 1 1 1 • Adult	»Pediatric end-tidal CO ₂ sampling nasal cannula		1	1
◆Adult 1 1 1 ◆Pediatric 1 1 1	► County-approved pleural decompression kit		1	2
◆Adult 1 1 1 ◆Pediatric 1 1 1	▼ Resuscitation bag-valve with O₂ reservoir			
		1	1	1
	Pediatric	1	1	1
● Infant	• Infant	1	1	1
▼Face masks for resuscitation (BVM)	▼Face masks for resuscitation (BVM)			
»Adult		1	1	1
»Pediatric			1	1
»Infant 1 1 1	»Infant	1	1	1
▼Suction equipment and supplies:	▼Suction equipment and supplies:			
Rigid Suction Catheter		1	1	2
• Suction apparatus (portable)			1	1
• Suction catheters, pediatric:	, ,			

	CATIONO	ALC/DIO	ALC
MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS Non-Transport	ALS Transport
» 6 Fr	1	1	1
»10 Fr	1	1	1
»18 Fr	1	1	1
Suction Canisters	1	1	1
DRESSING MATERIA	LS		
► County Approved Chest Seals		2	3
► Adhesive bandages (Assorted)	1 container	1 container	1 container
► Cold Pack	2	2	2
▼ Dressing Materials	_		
● 4" by 4" gauze		6	12
• 10 by 30" or larger universal dressings		2	3
● ABD pad (9 x 5")	2	2	2
Roller bandages (sterile)		_	
»2"	2	1	2
»3"		1	2
Bulky gauze roller bandages 4"	2	2	2
QuikClot® Combat Gauze™		1 (Optional)	1 (Optional)
► Elastic Bandage 3"	1	1	1
► Scissors (heavy duty)	1	1	1
▼ Splints - ladder or cardboard splints with a soft or cushioned			
surface, or equivalent padded board:	4	4	0
• Arm 3" x 15"			2
• Leg 3" x 36"	1	1	2
• Traction Splint		1	1
▼Tape	4	4 11	4
• 1"	1 roll	1 roll	1 roll
• 2"		1 roll	1 roll
Triangular Bandage	1	1	2
County Approved Tourniquet (for hemorrhange control)		1	1
EQUIPMENT AND SUPI	PLIES		
▼Automated External Defibrillator (AED) equipment	4		
Automated External Defibrillator - pediatric ready	1		
• "Hands- off" defib pads	A 4		
»Adult	1 set		
» Pediatric	1 set	4	4
Blanket Disposable	1	1	1
▼ Blood pressure cuff (portable):	_		4
• Adult		1	1
• Obese		1	1
Pediatric	1	1	1

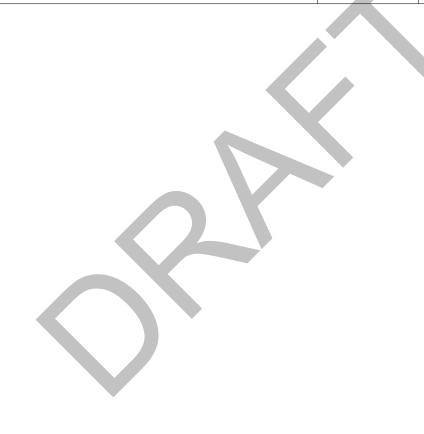
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MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS Non-Transport	ALS Transport
Infant		1	1
► Bulb Syringe (optional if supplied in Delivery Kit)	1	1	1
▶Burn Sheets (sterile)	1	1	1
may be disposable, or linen (sterilization date indicated)			_
►CO Monitor		1 (Optional)	1 (Optional)
▼ Delivery Kit			
Sterile, prepackaged to include:			
• a minimum of two (2) umbilical cord clamps			
• scissors (may be packaged separately)	4	4	4
aspirating bulb syringe		1	ı
• gloves			
• drapes			
antiseptic solution			
►EMS Field Manual	1	1	1
► Gloves, disposable	1 box	1 box	2 boxes
► Glucometer	1	1	1
▼Irrigation Equipment:			
»Sterile Saline for irrigation	2	1 (Optional)	2
»Tubing for irrigation		Removed	1
► EMS Approved Length Based Resuscitation Tape - (LBRT)		1	1
►Lubricant, water soluble	2 packs	2 packs	2 packs
► County Approved Mechanical CPR Device		1 (Optional)	1 (Optional)
▼ Monitor/defibrillator equipment:			
Defibrillator			
Must have strip recorder, synchronized cardioversion and			
transcutaneous pacing capability, and be portable & operational. Both monophasic and biphasic waveform defibrillators are acceptable;		1	1
however, biphasic is preferred. Energy level dependent upon		1	'
manufacturer.			
Batteries, extra (if available)		1 set	1 set
● "Hands-off" defib pads			
»Adult		1 set	1 set
»Pediatric		1 set	1 set
EKG electrodes		3 packs	<mark>6</mark> packs
12-lead EKG capability		1	1
▶Pen Light	1	1	1
▶ Point of Wounding (POW) Kit (Items located in this kit may	1 (optional for	4	4
be counted towards minimums of other items in this table)	` IFT)	1	1
► Radio unit(s)			
Must be able to function with all facets of the current EBRCS	1	1	1
radio system	'		'
-,			

Modified On: May 28, 2019

EQUIPMENT AND SUPPLY SPECIF		ALS	ALS
MINIMUM SUPPLY SPECIFICATIONS	BLS	Non-Transport	Transport
▶Thermometer - patient safe	1	1 (optional)	1
► Triage Tags	20	20	20
▶ Triage Tape		- red, yellow, gre	en, black
►Scoop	1 (optional for IFT)		1
► Flexible multi-positional patient carrying device (optional)	1	1	1
► Stethoscope	1	1	1
► Stretcher	1		1
IMMOBILIZATION EQUI	PMENT		
➤ Cervical collars - Stiff: Sizes to fit all patients over one year old	1 each size	1 each size	2 each size
► Head immobilizer that provides lateral and built-in occipital support	1	1	2
▼ Spine boards (rigid) • Long board (72" x 14") with removable 5-strap adjustable immobilization device	. 1	1	1
Pediatric with velcro straps and head harness	1 (optional for IFT)	1	1
(LBRT holder optional)			
► Vacuum Mattress	1 (optional)	1	1
► Athletic helmet face mask removal tool (optional)	1	1	1
IV EQUIPMENT/SYRINGES	NEEDLES		
▼Armboards			
Short			1
Pediatric		1	1
▼ Catheters 14 gauge removed			
● 16 gauge			2
• 18 gauge			2
•20 gauge			2
• 22 gauge			2
24 gauge			2
▶ Chlorhexidine		6	12
▼ Handheld Battery Powered Intraosseous Equipment			
EZ-IO® Driver			1
• 15 mm Needle Set (pink hub, 3kg-39kg)			2 (optional)
The state of			2
 45 mm Needle Set (yellow hub, >40kg with excessive tissue) 			2
Vascular access pack		1	2
▼ Needles 18g and 25g removed			
●21 g x 1"		1	4
 ■ 18 g x 1½" 5 micron filter needle (only required if medication carried requires usage) 		1	2

		ALS	ALS
MINIMUM SUPPLY SPECIFICATIONS	BLS	Non-Transport	Transport
▶ Pressure Infusion Bags		1	1
► Saline Lock		2	2
▼Syringes (with Luer-Lok™)			
• 1 mL "Epi-Safe" or equivalent	1 (optional)		_
•1 mL		1	2
•3 mL			2
• 10 mL		2	2
◆ 30 mL ▶T-connector		1	2
		1	1
➤ Tourniquet (for IV start) ➤ Tubing - Adjustable flow 3-way administration set		1	2
MEDICATIONS AND SOLUTIONS -	releads pref	erred	2
► Adenosine 6 mg / 2 mL NS	reloads prei	1	2
► Adenosine 12 mg / 4 mL NS		1	2
► Albuterol 2.5 mg in 3 mL NS		2	4
► Amiodarone 150 mg in 3 mL		2	3
	1 bottle	1 bottle	1 bottle
Aspirin 81 mg chewable tablet or 325 mg/5 gr. tablet	1 bottle	1 bottle	
Attopine Sulfate 1 mg / 10 mL		1	1
► Autoinjector antidote kit (optional) (atropine 2mg in 0.7mL's & pralidoxime chloride 600mg in 2 mL's)	3 per person	3 per person	3 per person
►Calcium Chloride 1 gm / 10 mL		1	1
►Charcoal, 25 grams		1 bottle	2 bottles
▶Dextrose 10% in 250mL bags		1	2
▶Diphenhydramine 50 mg / 1 mL		1	2
►Epinephrine 1mg/mL 1 mg / 1 mL		2	2
►Epinephrine 0.1mg/mL 1 mg / 10 mL		3	3
► Epinephrine Auto-Injectors Adult 0.3mg, Pediatric 0.15mg ► Epinephrine 1mg/mL 1 mg / 1 mL	1 of each Auto-injector or 1 vial		
►Fentanyl 100 mcg / 2 mL		2	2
►Glucagon 1 mg Kit		1	1
►Hydroxocobalamin 5g / 250ml		Optional	
▶Oral Glucose - 31 gms	2	2	2
▶Ipratropium (Atrovent) 500 mcg (2.5 mL)		1	2
►Lidocaine 2% 40 mg / 2 mL		1	1
►Midazolam 10 mg / 2 ml		2	4 2
►Naloxone 2 mg / 2 mL	2	2	2
►Nitroglycerine		1 bottle	1 bottle
► Olanzapine (Zyprexa) 10mg oral dissolving tablets		2	2
ADD Ketorolac 15mg		1	1

MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS Non-Transport	ALS Transport
▶Ondansetron (Zofran) 4mg / 2 mL for IV/IM injection		1	2
▶Ondansetron (Zofran) 4mg oral dissolving tablets	2 4		
►Saline, sterile (for injection) 10 mL	2 2		
►Sodium bicarbonate 50 mEq / 50 mL	1 2		
► Sodium Thiosulfate 12.5 gms with 10 gtt/mL vented tubing	1 (Supervisor or Battalion Chief)		
▶Tranexamic Acid	1 1		
▼Bags for infusion			
 D₅W or Normal Saline 100mL 		1	2
 Normal Saline (NS)-May use 500mL or 1000mL bags 		1,000mL	2,000mL



Procedures Modified On: May 10, 2019

ADVANCED AIRWAY MANAGEMENT

1. **INTRODUCTION:** The approved airway management procedure consists of endotracheal intubation (ETI) or insertion of a supraglottic airway (SGA) device.

Nasotracheal intubation is NOT an approved skill in Alameda County

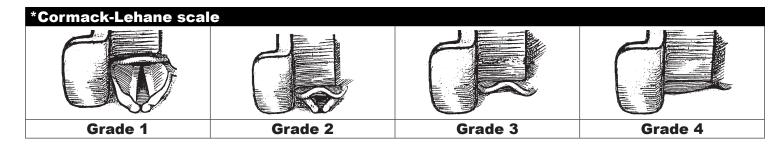
- 1.1 Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary with all patients.
- 1.2 For patients ≥ 40kg, ALS personnel are authorized to perform the skill of endotracheal intubation or placement of an SGA.
- 1.3 For patients < 40kg, BVM ventilation is the preferred method of ventilatory management. If BVM ventilation is unsuccessful or impossible, a SGA device may be placed.
- 1.4 BLS personnel are authorized to perform the skill of insertion of a supraglottic airway only after completing an approved training program and with the approval of the EMS Medical Director. BLS personnel may not intubate.
- 1.5 If advanced airway placement will interrupt chest compressions, providers may consider deferring insertion of the airway until the patient fails to responds to initial CPR and defibrillation or demonstrates ROSC (2015 AHA Guidelines)
- 1.6 ALS and BLS personnel must confirm tube placement (ETI or SGA) with capnography/ capnometry, auscultation and physical assessment (auscultation, observation of chest rise, visualization of the tube passing through the cords, etc.). See Section #4.

1. INDICATIONS:

- 1.1 Non-traumatic cardiac and/or respiratory arrest.
- 1.2 Traumatic cardiac and/or respiratory arrest or severe ventilatory compromise where the airway cannot be adequately maintained by BLS techniques.

1. APPROVED ADVANCED AIRWAY MANAGEMENT PROCEDURE:

- 1.1 **Endotracheal intubation (ALS only)**
 - 1.1.1 **Definition:** An <u>intubation attempt</u> is defined as the insertion of the laryngoscope blade into the patient's mouth.
 - 1.1.2 Make no more than <u>2 total intubation attempts</u> per patient. Each attempt should not last longer than 30 seconds. Ventilate with 100% oxygen for one minute prior to each attempt.
 - 1.1.3 If patient has a Cormack-Lehane* grade of 3 or 4 (epiglottis is not or is barely visible), consider primary use of a supraglottic airway.



ADVANCED AIRWAY MANAGEMENT

- 1.2 Supraglottic Airway Device <mark>(i-gel®)</mark>
 - 1.2.1 **Definition:** An <u>supraglottic airway attempt</u> is defined as the insertion of the supraglottic airway device into the patient's mouth.
 - 1.2.2 For patients ≥ **40kg**, a supraglottic airway (i-gel®) device may be placed as a primary airway (if Cormack-Lehane grade is 3 or 4) or after unsuccessful attempt(s) at endotracheal intubation.
 - 1.2.3 For patients < 40kg, BVM ventilation is the preferred method of ventilatory management.

 If BVM ventilation is unsuccessful or impossible, a SGA device may be placed
 - 1.2.4 The i-gel® SGA device comes in seven sizes determined by the patient's weight:

Size	5	4	3	2.5	2.0	1.5	1.0
Weight (kg)	>90kg	50-90kg	30-60kg	25-35kg	10-25kg	5-12kg	2-5kg

- 1.2.5 The patient should be in the sniffing position. The chin should be gently pressed down/ inferior before proceeding to insert the i-gel device.
- 1.2.6 Introduce the leading soft tip into the mouth of the patient in a direction toward the hard palate.
- 1.2.7 Glide the i-gel device downwards and backwards along the hard palate with a continous, but gentle push until definitive resistance is felt.
- 1.2.8 Do not apply excessive force during insertion.
- 1.2.9 If unexpected resistance is met during insertion, apply jaw-thrust and slightly rotate the device.
- 1. **CONFIRM TUBE PLACEMENT:** To be used on an endotracheal tube or the i-gel® device in the order listed below
 - 1.1 Waveform capnography/capnometry must be continously monitored.
 - 1.2 **Visualize** the ETT passing through the vocal cords and look for chest rise with ventilation.
 - 1.3 **Auscultate** both lung fields for breath sounds. Listen over left upper quadrant of the abdomen for air in the stomach
 - 1.4 **Document.** All devices used to confirm ETT/SGA placement must be electronically uploaded into and documented on the patient's EHR.
 - 1.4.1 Describe waveform (e.g. box, shark fin, straight line, bumpy line, etc.)
 - 1.4.2 Capnometry number in mmHg (e.g.15 mmHg) should be, at a minimum, documented at the initiation of monitoring, after every patient movement, and at transfer of patient care.
- 1. If there is any doubt as to proper placement of the endotracheal tube, visualize the pharynx and vocal cords with laryngoscope and use capnographic waveform to make a decision. If still in doubt, suction the patient, deflate the cuff, remove the endotracheal tube and replace with a supraglottic airway. (Be prepared removal of an ET tube may induce vomiting). Ventilate between attempts with 100% oxygen
- 1. If the patient regains consciousness while intubated, do not extubate. Use restraints as necessary to prevent uncontrolled extubation. Consider Sedation (see Sedation page 137)
- 1. If the patient has a suspected spinal injury:
 - ▶ Open the airway using a jaw-thrust without head extension
 - ▶ If airway can not be maintained with jaw thrust use a head-tilt/chin-lift maneuver
 - ▶ Manually stabilize the head & neck rather than using an immobilization device during CPR

HEMORRHAGE CONTROL

1. **INTRODUCTION:** Controlling severe bleeding from an extremity injury can be challenging (especially in the lower limbs). Use of a County approved tourniquet can assist in the care of patients with uncontrollable bleeding in the extremities safely and effectively when the appropriate precautions are taken. Approved for both ALS and BLS.

2. INDICATIONS:

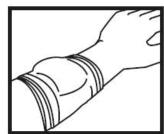
- ► Amputation
- ► Failure to stop bleeding with pressure dressing(s)
- ► Injury does not allow control of bleeding with pressure dressing(s)
- ► Impaled foreign body with ongoing extremity bleeding
- ► Under difficult or dangerous situation for responding caregivers

- ► Mass casualty event
- ➤ Significant extremity hemorrhage in the face of any or all of:
 - Need for airway management
 - Need for breathing support
 - Circulatory shock
 - Need for other emergent interventions or assessment
 - Significant bleeding from multiple locations
- 3. **TOURNIQUET:** Place county approved tourniquet according to manufacturer's instructions
- 4. **WOUND PACKING:** Significant uncontrolled bleeding from extremity and junctional (shoulder or groin) wounds may be packed with standard or hemostatic gauze. Wounds to the chest, abdomen, or pelvis should not be packed.
- 5. **HEMOSTATIC AGENT:** After tourniquet placement, and to aid in severe arterial bleeding; or to control severe bleeding where tourniquets are not indicated (trunk, head, neck, etc), use of a hemostatic guaze is indicated. **Use of hemostatic gauze is optional.**
- 6. INDICATIONS:
 - ▶ Bleeding that is not controllable with the use of a tourniquet or other means.
- 7. PROCEDURE: Any standard gauze or County-approved hemostatic gauze may be utilized

DIRECTIONS FOR USE



1. Open package and remove Combat Gauze. Keep the empty package.



2. Pack Combat Gauze into wound and use it to apply pressure directly over bleeding source. (More than one Combat Gauze may be required).

4. Wrap and tie bandage to maintain pressure. Seek medical care immediately. Show PRODUCT REMOVAL directions on package to medical personnel.



3. Continue to apply pressure for 3 minutes or until bleeding stops.

PLEURAL DECOMPRESSION

1. **INDICATIONS:** When clinical findings reveal a tension pneumothorax (severe respiratory distress, diminished breath sounds on the affected side, tracheal deviation) with rapidly deteriorating vital signs

2. EQUIPMENT:

2.1 County-approved decompression needle/kit

3. PROCEDURE:

- 3.1 Approved Site: Mid-Axillary Line (MAL) site Removed
 - ▶ 2nd or 3rd intercostal space, mid-clavicular line
- 3.2 Prep site with chlorhexadine
- 3.3 Firmly but carefully insert the needle at a 90 degree angle just over the superior aspect (superior border) of the rib, through the skin and pleura until air escapes or a distinct "give" is felt. The undersurface of the rib should be avoided to limit injury to the neurovascular bundle. Air should be freely aspirated (if not, you are not in the pleural space)
- 3.4 Remove the needle
- 3.5 Attach a one-way valve (if neccessary).
- 3.6 Recheck breath sounds and continuously monitor cardio-respiratory status.

4. COMPLICATIONS:

- 4.1 Lung laceration
- 4.2 Pneumothorax
- 4.3 Hemorrhage secondary to damage to the intercostal artery or vein

PSYCHIATRIC AND BEHAVIORAL EMERGENCIES- OLANZAPINE

1. INTRODUCTION: Olanzapine (Zyprexa) 10mg sublingual is an atypical antipsychotic with minimal side effects. The major side effect would be minimal sedation that can be worsened by alcohol or other sedatives. Orally disintegrating Olanzapine sublingual allows for rapid absorption, with effects occurring within 10-15 minutes of administration.

2. INDICATIONS:

- 2.1 Olanzapine is indicated for the cooperative, anxious adult patient with a primarily behavioral health presentation and a history of psychiatric disorder. These patients will commonly be hearing voices or having paranoid thoughts after not taking their usual psychiatric medications.
- 2.2 In accordance with Restraint Policy (P.111), restraints may be utilized after patient self-administers Olanzapine.
- 3. CONTRAINDICATIONS: Removed "agitation requiring restraints"
 - → Age less than 18 or over 65
 - → Clinical intoxication with other substances
 - → Pregnant patients

4. POSSIBLE ADVERSE EFFECTS:

- ➤ Dystonic Reaction
- ► Anticholinergic Effects
- ► CNS Depression
- **5. ADMINISTRATION:** Olanzapine (Zyprexa) 10mg, should be handed to the patient for sublingual self-administration. No water is needed for the orally disintegrating table

MULTI-CASUALTY INCIDENT - EMS RESPONSE

- 1. **INTRODUCTION:** A Multi-Casualty Incident (MCI) is any incident where the number of injured persons exceeds the day-to-day operating capabilities; requiring additional resources and/or the distribution of patients to multiple hospitals. This may be different for each incident based on time of day, location, resources available, etc.
- 2. **NOTIFICATIONS:** Incident Commanders shall make notifications through ACRECC. Organizations should have internal notification procedures
- 3. MCI RESOURCE ORDERING, INITIATION AND TERMINATION:
 - 3.1 The first arriving unit should initiate an MCI through ACRECC
 - 3.2 Inform ACRECC of the Incident Type (Medical, Trauma, MVC, Haz-Mat etc.)
 - 3.3 Responders should order MCI Resource Response (MCI Response) as soon as possible in order to get resources responding. This resource ordering can occur before an exact patient count is obtained.
 - 3.4 Patient count approximations should be used as guidelines for initiating a specific MCI LEVEL and are not intended as a substitute for sound scene judgment
 - 3.5 As soon as there is an approximate number of patients determined, the MCI Level should be declared
 - 3.6 Immediately cancel assigned resource(s) when no longer required
 - 3.7 Terminate the MCI through ACRECC when the MCI has been mitigated

MCI RESOURCE ORDERING				
MCI RESPONSE	MCI RESOURCE RESPONSE PACKAGE	MCI NOTIFICATIONS		
MCI Response 1	 → 5 Closest 911 Ambulances → 1 EMS Supervisor → EMS TAC channel assigned Note: Immediately cancel assigned resource(s) when no longer required 	 → Jurisdictional Fire Battalion Chief → County EOA Provider Operations Supervisor → LEMSA Duty Officer 		
MCI Response 2	→ 5 Closest Ambulances → 1 EMS Supervisor → 1 DMSU Note: Immediately cancel assigned resource(s) when no longer required	→ All County Fire Duty Chiefs		
Resources in MCI Resp	oonse 2 are in addition to resources ass	igned in MCI Response 1		
MCI Response 3	 → 5 Closest Ambulances → 1 EMS Supervisor → Consider Air Assets Note: Immediately cancel assigned resource(s) when no longer required 			
Resources in MCI Resp	oonse 3 are in addition to resources ass	igned in MCI Response 2		
Additional Levels	For Each Additional level: → 5 Closest Ambulances → 1 EMS Supervisor			

MULTI-CASUALTY INCIDENT - EMS RESPONSE

MCI LEVELS		
MCI Level	Approximate Patient Count	
ı	5-14 Patients	
II	15-50 Patients	
III	> 50 Patients	

4. RESOURCE ORDERING PRIORITY LIST

- 4.1 ALCO 911 Ambulances
- 4.2 ALCO BLS Permitted Ambulances
- 4.3 Mutual Aid from contiguous county(ies)

5. MANAGEMENT OF MCI INCIDENTS AND PATIENT DISTRIBUTION

- 5.1 Once an MCI alert is determined by prehospital personnel, Alameda County Regional Emergency Communications (911 dispatch) will be notified and will "Initiate an MCI" under the Reddinet MCI module. ACRECC will immediately send an "ED Capacity poll and general notification" to the hospitals in Alameda County
- 5.2 For MCI Levels II & III, ACRECC will notify the EMS Duty Officer of the incident
- 5.3 Emergency responders shall perform triage using one of the following triage methods:
 - ► The Simple Triage and Rapid Treatment (START) algorithm for adults and JumpSTART for pediatrics
 - ► The Sort, Assess, Lifesaving Interventions, Treatment / Transport (SALT) algorithm for patients in all age groups
 - 5.3.1 Acuity based Triage colors for both Triage Tape and Triage Tags are universally accepted as Black (expectant / deceased), Red (immediate / life threatening,), Yellow (delayed / serious non life threatening), and Green (minor / walking wounded). Only Black, Red, Yellow, and green are acceptable triage colors
 - 5.3.2 The use of colored "Triage Tape" upon initial contact with victims at the crisis site is preferred over Triage Tags to identify initial acuity. Triage tags should be used at the external Casualty Collection Point (CCP) outside the crisis site or applied to patients during transport. Acuity guided transport of all patients shall occur in a coordinated and expedient manner
- 5.4 Hospital Poll: For MCI incidents involving 15+ patients, ACRECC will send a "bed capacity" poll to all hospitals in Alameda County to confirm bed availability
- 5.5 For the duration of the MCI, the Transportation Unit Leader under ICS will determine transportation methods and destinations
- 5.6 Whenever possible, patients should be transported to the most appropriate hospital without overloading one particular facility. Every effort will be made to transport trauma patients to a designated trauma hospital. In a Level II or III MCI, transport to a designated trauma center may not always be possible

MULTI-CASUALTY INCIDENT - EMS RESPONSE

Modified On: May 29, 2019

5.7 First Round Destination Procedure may be implemented without prior authorization. All Alameda County receiving hospitals should prepare to receive patients, especially those in close proximity to the incident

First Round Destination Procedure			
Non-Trauma patients** to each Alameda County receiving hospital (for a total of 6): ✓Two (2) "Immediate" ✓Four (4) "Delayed" and/or "Minor" ** e.g.: Medical incident, HazMat	Trauma patients to each Alameda County Trauma Center (for a total of 7): ✓ Three "Immediate" ✓ Four (4) "Delayed" and/or "Minor"		

- 5.8 ACRECC in conjunction with the incident command structure will track patient numbers, acuity and destinations in ReddiNet in as close to real-time as possible. ReddiNet will serve as the primary mechanism notifying receiving facilities of the number and acuity of incoming patients. Receiving hospitals will enter patient names and other relevant information into ReddiNet. This will facilitate patient accountability and reunification. On scene EMS Supervisors may also have the ability to enter information into ReddiNet
- 5.9 Verbal notification to hospitals: In a Level I MCI, transporting units should contact the receiving hospital enroute to give an abbreviated report on the patient(s) status and ETA. In a Level II or III MCI, if ReddiNet is unavailable or non-functional, a medical communications coordinator should be designated to notify receiving facilities of the number and acuity of incoming patients.
- 5.10 Incident Log The Transportion Unit Leader should maintain an incident log
- 5.11 The on-scene Incident Commander or designee (ie. Medical Group Supervisor or Transportation Unit Leader) should contact ACRECC during and at the conclusion of the MCI to provide and reconcile patient tracking information to ensure accountability
- 6. **RESOURCE MANAGEMENT** The Incident Commander has the overall responsibility for developing objectives and requesting the necessary resources required to mitigate the incident. There will be no self-dispatching. Clear communications between all involved agencies is imperative
 - 6.1 The following items are MCI Management points to consider
 - ▶ The three "T's" ensure that Triage, Treatment and Transport have been addressed
 - ▶ Request resources through the Incident Commander in the early stages of the incident. Ensure adequate personnel and equipment
 - ► Establish staging areas. Transport Units and/or other units that do not immediately have an assignment should report to the designated staging area and wait for instructions
 - ► Use a one-way traffic pattern. Transport units should be staged to assure good access and egress from Loading Area
 - ▶ All incoming units drop off required EMS equipment at a designated location
 - ► County Disaster Trailers shall be requested through ACRECC
 - 6.2 Use ICS identification vests. At a minimum the IC, Medical Group Supervisor, Triage and Treatment, and Transportation Unit Leader should be clearly identified with vests