

EMERGENCY MEDICAL SERVICES - STAFF DIRECTORY

EMS Office	618-2050 (main number) 618-2099 (fax #)	
On-call EMS Staff	(925) 422-7595 – ACRECC	
EMS Website- http://ems.acgov.org EMS Email- alcoems@acgov.org		
EMS DIRECTOR		
Lauri McFadden	618-2055	lauri.mcfadden@acgov.org
DEPUTY EMS DIRECTOR		
William McClurg	618-2030	william.mcclurg@acgov.org
SPECIAL PROJECTS		
Anne Kronenburg	618-2035	anne.kronenburg@acgov.org
MEDICAL DIRECTOR		
Karl Sporer, MD	618-2042	karl.sporer@acgov.org
DEPUTY MEDICAL DIRECTOR		
Jocelyn Garrick, MD	618-2044	jocelyn.garrick@acgov.org
EMS COORDINATORS		
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 Occurrences 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		
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	conscious	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 a.m.	morning	C-Section	cesarean section
AMA	against medical advice	C-Spine	cervical spine
amb	ambulatory	CT	Computerized Tomography
amp.	ampule	CVA	cerebrovascular accident
A+O	alert and oriented	D & C	dilatation and curettage
ant	anterior	d/c or dc'd	Discontinue, discontinued
approx	approximately	DCAP-BTLS	deformities, contusions, abrasions, punctures, burns, tenderness, lacerations, swelling
ASA	aspirin	D₅W	Dextrose 5%. in water
ASAP	as soon as possible	DDS	Doctor of Dental Surgery
ASHD	Arteriosclerotic heart disease	Dig	Digitails
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	Dr.	doctor
BM	bowel movement	dsg	dressng
BP or BP	blood pressure	Dx	diagnosis
BS	breath sounds or blood sugar	EB or E/B	eastbound
C	centigrade	ED	emergency department
ċ	with	EDC	estimated date of confinement
C-2	Code 2	EDD	Esophageal detection device
C-3	Code 3	EEG	electroencephalogram
CA	carcinoma	EHR	Electronic Health Record
CaCl	calcium chloride	EKG	electrocardiogram
caps	capsules	Emb	embolus
cath	catheter/catheterize	ENT	Ear, nose and throat
CAT	computerized axial tomography	E/O	east of
cc	cubic centimeter	Epi	Epinephrine
CC	chief complaint	ER	Emergency Room
CCU	Coronary Care Unit	ET	Endotracheal
CHF	congestive heart failure	ETI	Endotracheal Intubation
cm	centimeter	ETT	Endotracheal tube

ETCO₂	Endtidal CO ₂	LBB	left bundle branch block
ETA	estimated time of arrival	lido	Lidocaine
ETDLA	Esophageal tracheal double lumen airway	LLL	Left Lower Lobe
ETOH	ethyl alcohol	LLQ	Left Lower Quadrant
exam	examination	LMP	Last Menstrual Period
ext	external	LNMP	Last Normal Menstrual Period
F	Fahrenheit	LOC	Loss Of Consciousness
FB	foreign body	LPM	Liters per Minute
FBO	foreign body obstruction	LSD	lysergic acid diethylamide
FHT	fetal heart tone	LS	lung sounds
fr.	french	LUL	Left upper lobe
FUO	fever of unknown origin	LUQ	left upper quadrant
fx	fracture	max	maximum
g	gauge	MCA	motorcycle accident
GC	Gonococcus	mcg	micrograms
GI	gastrointestinal	meds	Medicines
gm	gram	mEq	Milliequivalent
GOA	gone on arrival	mg or	
gr	grain	mgs	Milligram (s)
GSW	gunshot wound	MI	Myocardial Infarction
gtt. or		Min. or	
gtts	drop/drops	mins.	Minute (s)
GU	genitourinary	min	minimum
GYN	gynecology	ml	milliliter
H or hr	hour	mm	millimeter
H₂O	water	mod	moderate
HCTZ	Hydrochlorothiazide	MRI	Magnetic Resonance Imaging
HEENT	Head, ears, eyes, nose, and throat	MS	Morphine sulfate
HOB	head of bed	MVA	Motor vehicle accident
HS	hour of sleep	N & V or	
ht	height	NV	Nausea and vomiting
HTN	hypertension	NaHCO₃	Sodium bicarbonate
Hx	history	N/A	Not applicable
irreg	irregular	NAD	no acute distress
ICU	Intensive Care Unit	NB or N/B	northbound
IFO	in front of	NC	Nasal cannula
IM	intramuscular	N/G or NG	nasogastric
IN	intranasal	NKA	No known allergies
inj or inj's	injury(ies)	NKDA	No known drug allergies
IV	intravenous	N/O	North of
IVP	intravenous push	NORM	normal
JVD	jugular venous distention	NPO	Nothing by mouth
K⁺	potassium	NRB	non-rebreather
KCl	potassium chloride	NRBM	non-rebreather mask
kg	kilogram	NS	Normal saline
L	liter	NSR	Normal sinus rhythm
LA	left arm	NTG	nitroglycerine
lat	lateral	O₂	oxygen
lac	laceration	OB	obstetrics
lb or lbs	pound(s)	OBS	Organic Brain Syndrome

Occ	occult	Rx	prescription
OD	overdose	S	without
OPA	oropharyngeal airway	SB or S/B	southbound
Ortho	orthopedic	SL or s1	sublingual
oz	ounce	S/O	south of
P	pulse	SOAP	subjective, objective, assessment, plan
PAC	Premature Atrial Contraction	SOB	shortness of breath
palp	palpate	SpO₂	pulse oximetry (saturation of peripheral oxygen)
PCR	Patient Care Report Form	stat	immediately
PE or P. E.	physical exam	STEMI	ST elevation myocardial infarction
Ped	pedestrian	SW	stab wound
Pedi	pediatric	sub-q or sq	subcutaneous
PERL	Pupils Equal, Reactive to Light	Surg	surgery
PERRLA	Pupils Equal, Round, Reactive to Light Accommodation	Sx	symptom
PID	pelvic inflammatory disease	sz	seizure
pm or p. m.	afternoon - evening	tab	tablet
PMD	private medical doctor	TB	tuberculosis
PNB	pulseless non- breathing	Tbsp or T	tablespoon
PND	paroxysmal nocturnal dyspnea	TCN	Tetracycline
po	by mouth	TCP	Transcutaneous pacing
POV	privately owned vehicle	temp	temperature
poss	possible	TIA	transient ischemic attack
post-op	after surgery	tid	three times a day
PRN	as needed or when necessary	TKO	to keep open
psych	psychiatric	trans	transport
pt or pts	patient(s)	tsp or t	teaspoon
PTA	prior to arrival	Temp	temperature
Pul	pulmonary	Tx	treatment
Pulse Ox	Pulse oximetry	u	units
PVC or PVCs	premature ventricular contraction(s)	UA	urinalysis
qd	every day	URI	upper respiratory infection
qh	every hour	UTI	urinary tract infection
q2h	every 2 hours	vag	vaginal
qid	four times a day	VD	venereal disease
qod	every other day	vs	vital signs
qt	quart	V-tach or VT	Ventricular tachycardia
R	right	WB or W/B	westbound
RA	right arm	Wk or wks	Week(s)
RBBB	right bundle branch block	WNL	within normal limits
reg	regular	WO	west of
resp	respiration	ws or w/s	watt seconds
r/o	rule out	wt	weight
RLL	right lower lobe	x	times
RLQ	right lower quadrant	yo	year old
ROM	range of motion	yr or yrs	year(s)
RR	respiratory rate		
Rt or R	right		
RUL	Right upper lobe		
RUQ	Right upper quadrant		

HOSPITALS

ACMC	Alameda County Medical Center (Highland)
AH	Alameda Hospital
ABMC	Alta Bates Medical Center
CHO	Children's Hospital
EMC	Eden Medical Center
JMMC	John Muir Medical Center
KF	Kaiser Fremont
KO	Kaiser Oakland
KSL	Kaiser San Leandro
KWC	Kaiser Walnut Creek
SLH	San Leandro Hospital
SRH	St. Rose Hospital
SRR	San Ramon Regional
SMC	Summit Medical Center
SUH	Stanford University Hospital
VCMC	ValleyCare Medical Center
WR	Willow Rock
WTH	Washington Township Hospital

PROVIDER AGENCIES

ALA	Alameda Fire Department
ACF	Alameda County Fire Department
ALB	Albany Fire Department
BER	Berkeley Fire Department
CHP	California Highway Patrol
PRK	Camp Parks Fire Department
EBY	East Bay Regional Parks Fire Department
FLK	Falck Ambulance
FRE	Fremont Fire Department
HAY	Hayward Fire Department
LAP	Livermore-Pleasanton Fire Department
OKL	Oakland Fire Department
PIE	Piedmont Fire Department

SYMBOLS

∅	with
∅	without
ā	before
ḡ	after
<	less than
>	greater than
≤	less than or equal to
≥	greater than or equal to
♀	Female
♂	Male
↑	Increase
↓	Decrease
=	equal
≈	approximately
-	negative
+	positive
"	inches
'	feet
#	pounds
°	degree
@	at
Δ	change
%	percent
2°	Secondary to

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 **assaultive or abusive conduct:**

- 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.



APS ONLINE REPORT
bit.ly/aps-report

► TO REPORT DOMESTIC VIOLENCE:

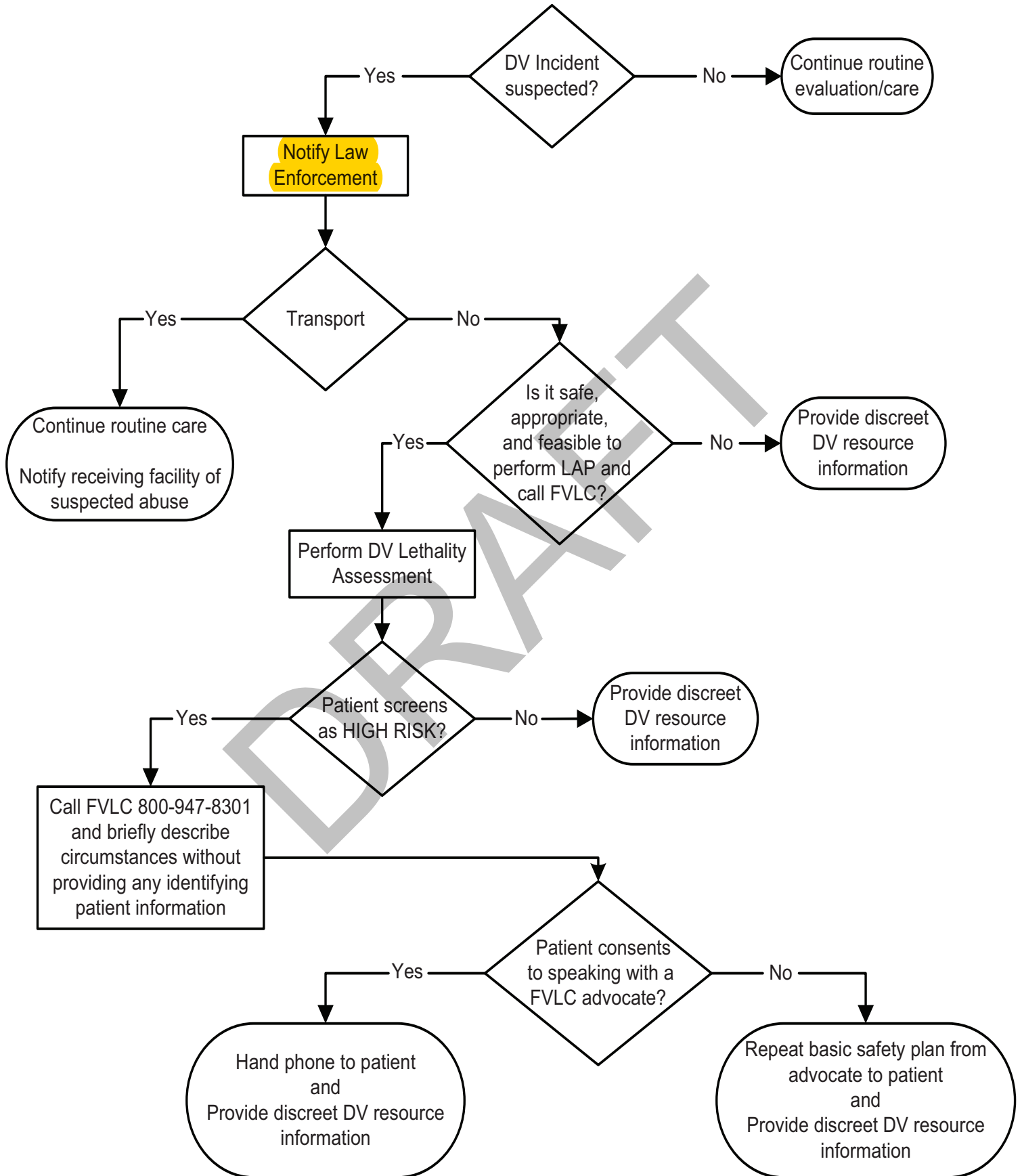
Domestic violence is defined as the willful intimidation, physical assault, battery, sexual assault, and/or other abusive behavior as part of a systematic pattern of power and control perpetrated by one intimate partner against another.

- 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.)

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**

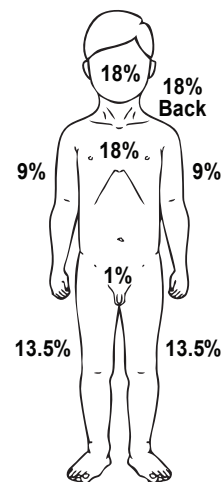
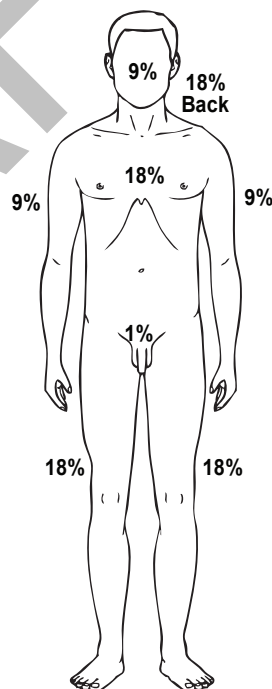
D. CHEMICAL BURNS

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

ALCO PRE-HOSPITAL FLUID FORMULA

$$\frac{\text{weight in kg} \times \text{TBSA} (\%)}{8} = \text{rate (mL/HR)}$$

8



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 Continuous Positive Airway Pressure (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

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	
<p>UNMANAGEABLE AIRWAY: <i>The patient requires intubation, and the paramedic is unable to intubate, and an adequate airway cannot be maintained with B.V.M. device.</i></p>	<p>Closest Basic E.D.</p>	
<p>ADULT TRAUMA ARREST - BLUNT or PENETRATING:</p>	<p>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</p>	
<p>PEDIATRIC TRAUMA ARREST BLUNT or PENETRATING:</p>	<p>→ ETA to the Pediatric Trauma Center ≤ 20 minutes</p> <p>→ ETA to the Pediatric Trauma Center ≥ 20 minutes</p>	<p>Pediatric Trauma Center</p> <p>Closest Adult Trauma Center</p>

TXA - TRANEXAMIC ACID

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

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

DRAFT

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 **Assure that RN/MD at receiving facility is notified that TXA was administered.**

- 3.4 Follow IV fluid resuscitation guidelines on page 23, "Trauma Patient Care"

ACUTE STROKE

1. **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
Arm 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.
Speech	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 abnormal 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
 - 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

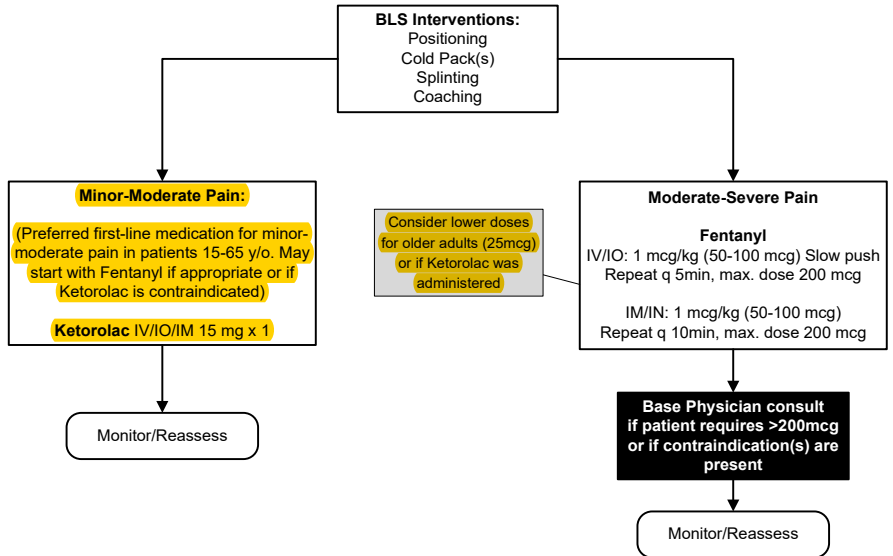
Adenosine	1st dose: 6 mg; 2nd dose: 12 mg (rapid <i>IV/IO</i> push)
Albuterol	5 mg in 6 ml normal saline
Amiodarone	Wide complex Tachycardia: 150 mg <i>IV/IO</i> over 10 mins VF/VT: 1st dose: 300 mg <i>IV/IO</i> ; 2nd dose: 150 mg <i>IV/IO</i> Follow each dose with 20mL NS flush. (two doses only)
Aspirin	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) <i>PO</i>
Dextrose 10%	10 gms <i>IV/IO</i>
Diphenhydramine (Benadryl)	Allergic Reaction: 1 mg/kg <i>IV/IO/IM</i> 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 <i>IV/IO/IM/IN</i> (max. single dose 100 mcg)
Glucagon	1 mg <i>IM</i>
Oral Glucose	30 gms <i>PO</i>
Ipratropium (Atrovent)	500 mcg (2.5 ml unit dose) <i>Via nebulizer</i>
Lidocaine 2%	40 mg <i>IO</i> (2 mL) <u>slowly</u> (1 ml over 30 seconds)
Ketorolac (Toradol)	15 mg <i>IM/IV/IO</i>
Midazolam (Versed)	Sedation: <i>IV (slowly) / IN (briskly):</i> 1-2 mg, <i>IM:</i> 2-4 mg (if no <i>IV</i>) Seizure: <i>IM/IN:</i> 10 mg, <i>IV/IO:</i> 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 <i>IN</i> 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 <i>PO</i> orally dissolving tablet
Ondansetron (Zofran)	4 mg <i>IV</i> †Slowly over 30 seconds or 4 mg <i>IM/PO</i> (<i>oral dissolving tablets</i>) (†rapid <i>IV</i> administration <30 seconds can cause syncope)
Oxygen (titrate to 94%-99% SpO ₂)	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

PAIN MANAGEMENT

DRAFT

•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:

- Patient age > 65 years
- Patients who meet Trauma Criteria
- NSAID Allergy (e.g. Ibuprofen, Naproxen, Aspirin)
- Pregnancy
- History of: Asthma, GI Bleed, Ulcers, Renal disease
- Current anticoagulant use

Note:

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

Fentanyl Considerations:

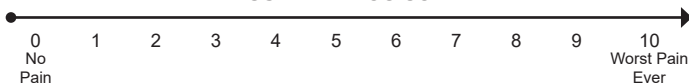
Contraindications:

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

Notes:

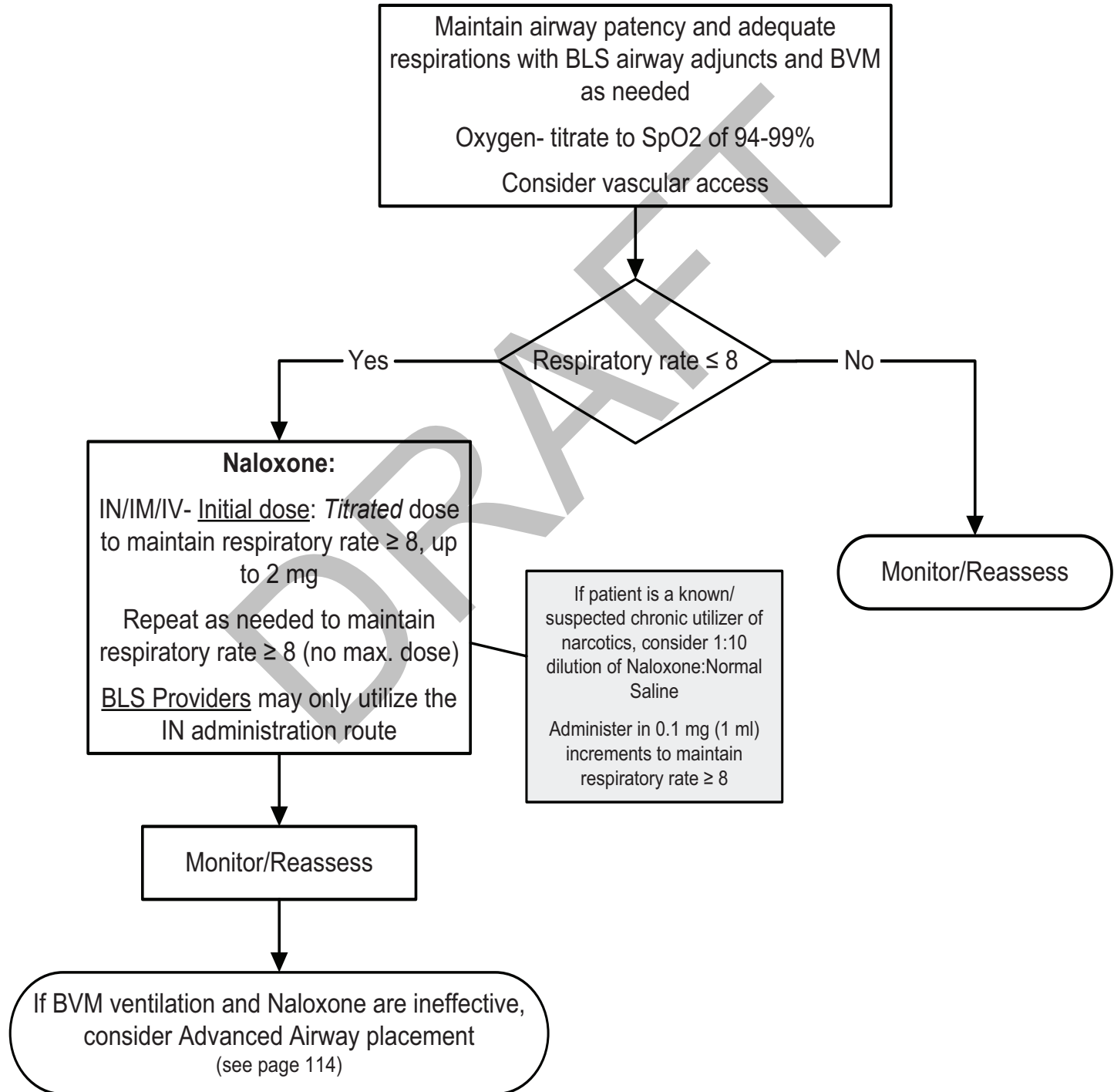
- Capnography monitoring is recommended
- Burn patients may require higher doses
- Have Naloxone readily available
- Ketorolac may be administered if Fentanyl is ineffective

VISUAL ANALOG SCALE



RESPIRATORY DEPRESSION OR APNEA (SUSPECTED NARCOTIC OD)

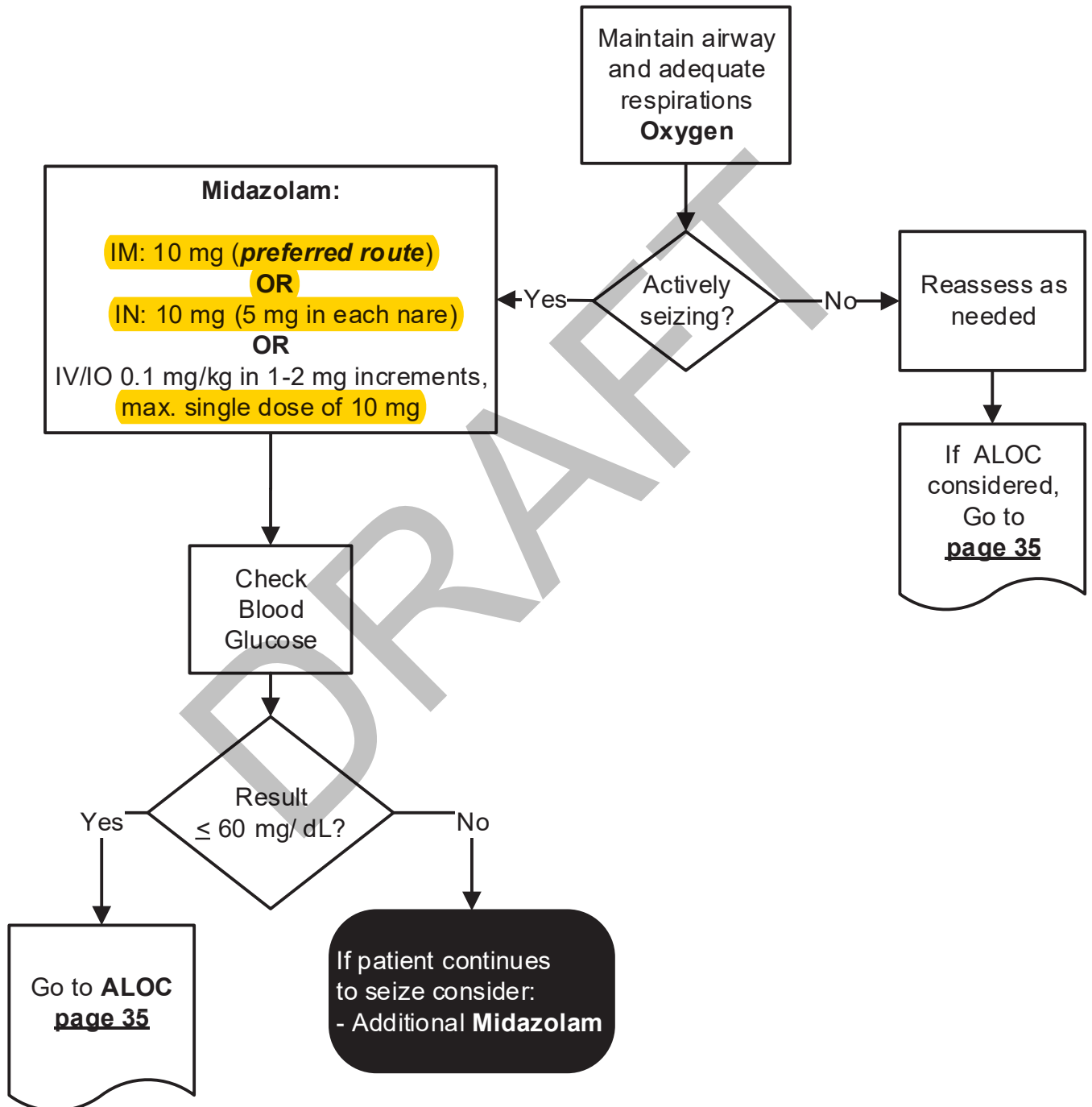
- **Routine Medical Care**
- Naloxone can cause acute withdrawal symptoms (agitation, vomiting, etc.) in patients who are chronic utilizers of narcotics
- Naloxone can cause cardiovascular side effects (chest pain, pulmonary edema) or seizures in a small number of patients (1-2%)
- Older patients are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



SEIZURE

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



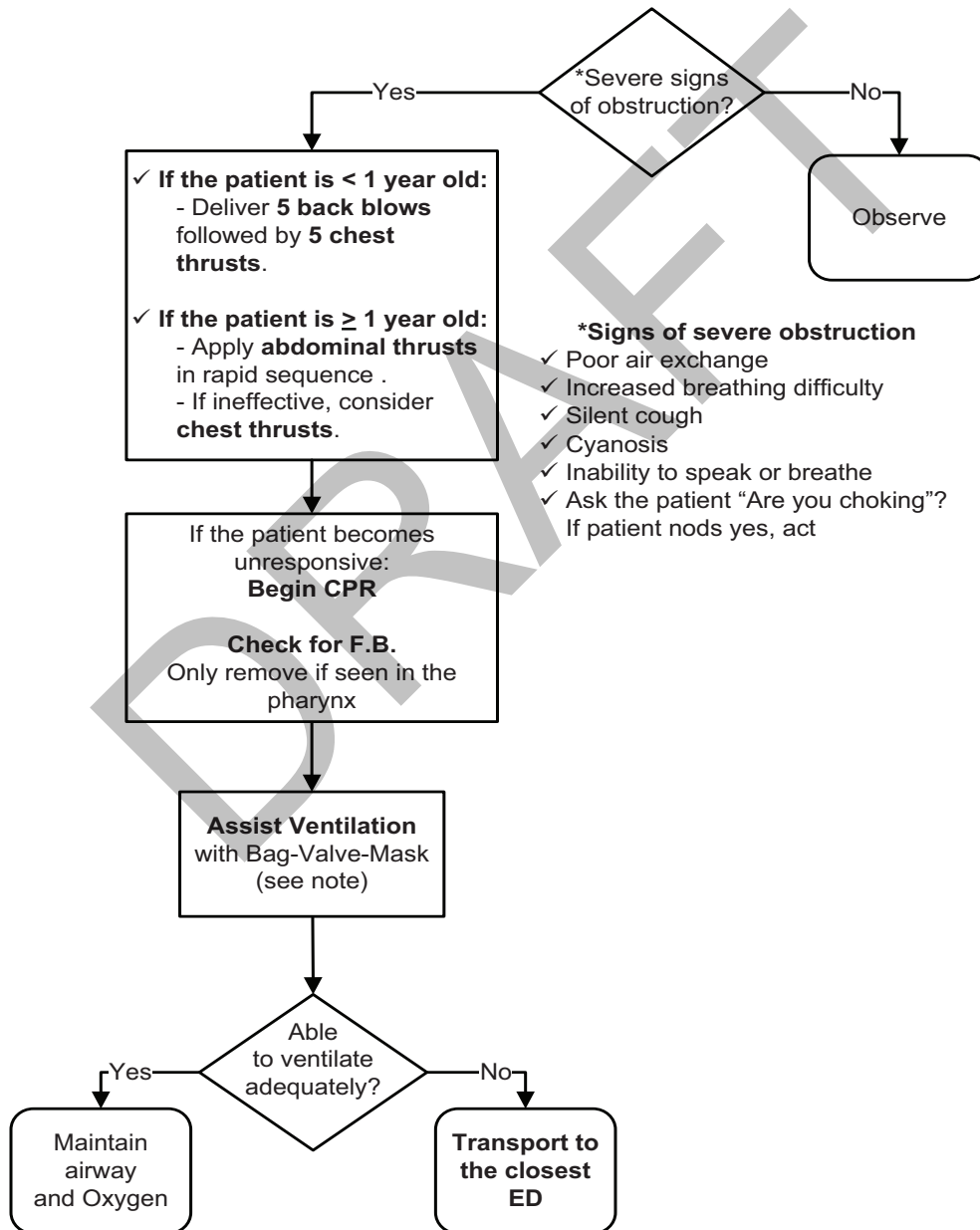
AIRWAY OBSTRUCTION

•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 and **Gestational Age:** ≥ 20-24 weeks

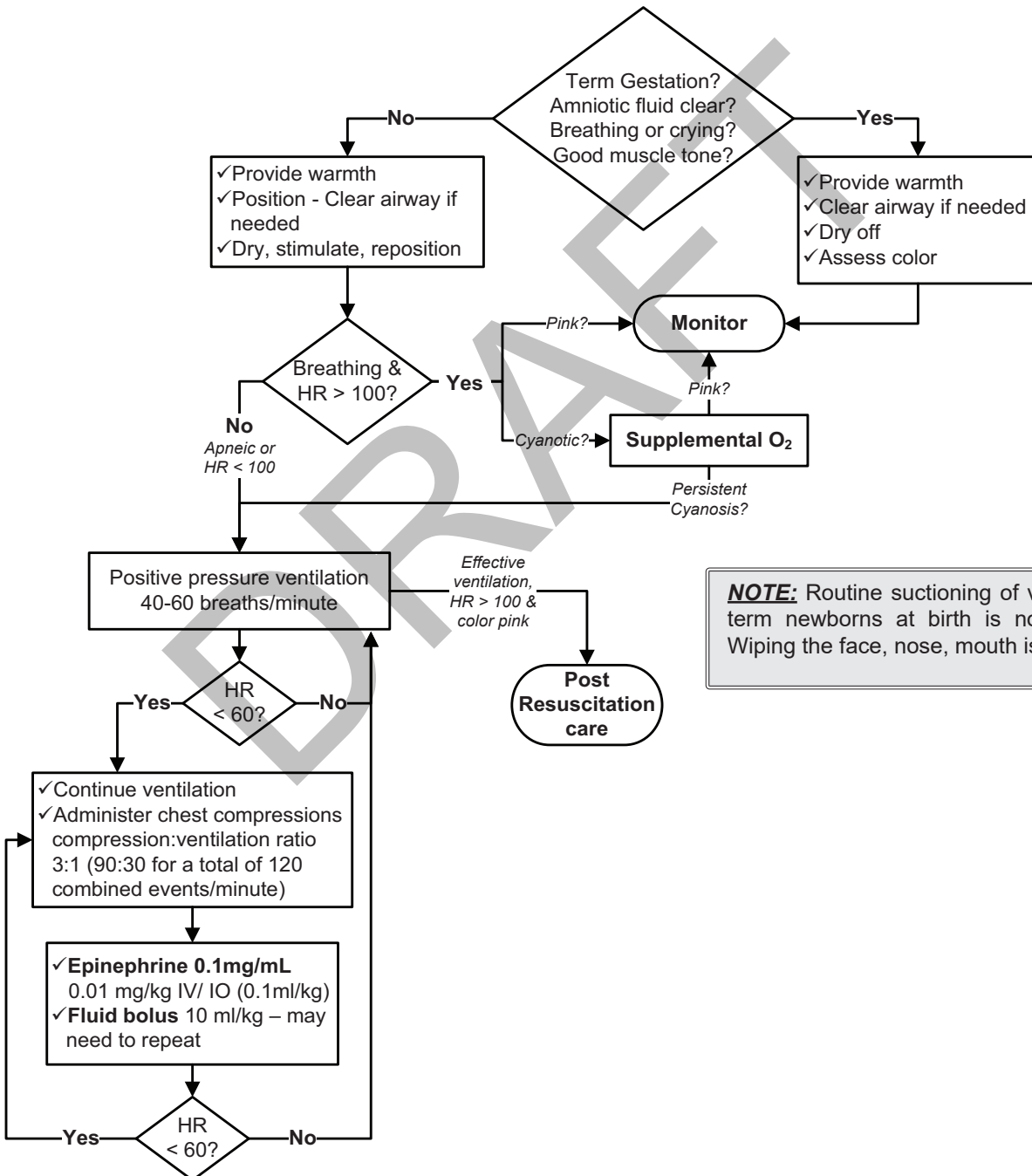
•If naloxone considered for persistent respiratory depression, HR and color must first be restored

•Avoid naloxone for neonates whose mothers are suspected of long-term exposure to opioids

•**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)



NOTE: Routine suctioning of vigorous, full term newborns at birth is not indicated. Wiping the face, nose, mouth is preferred

PAIN MANAGEMENT

- Pediatric Routine Medical Care.** If oxygen is administered, 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

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



0
NO HURT



2
HURTS LITTLE BIT



4
HURTS LITTLE MORE



6
HURTS EVEN MORE



8
HURTS WHOLE LOT



10
HURTS WORST

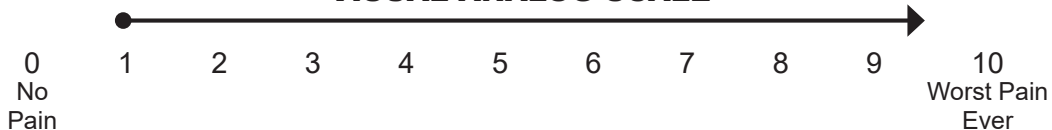
From Wong D.L., Hockenberry-Eaton M., Wilson D., Winkelstein M.L., Schwartz P.: Wong's Essentials of Pediatric Nursing, ed. 6, St. Louis, 2001, p. 1301. Copyrighted by Mosby, Inc. Reprinted by permission.

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

VISUAL ANALOG SCALE



PAIN MANAGEMENT

- **Pediatric Routine Medical Care.** If oxygen is administered, 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

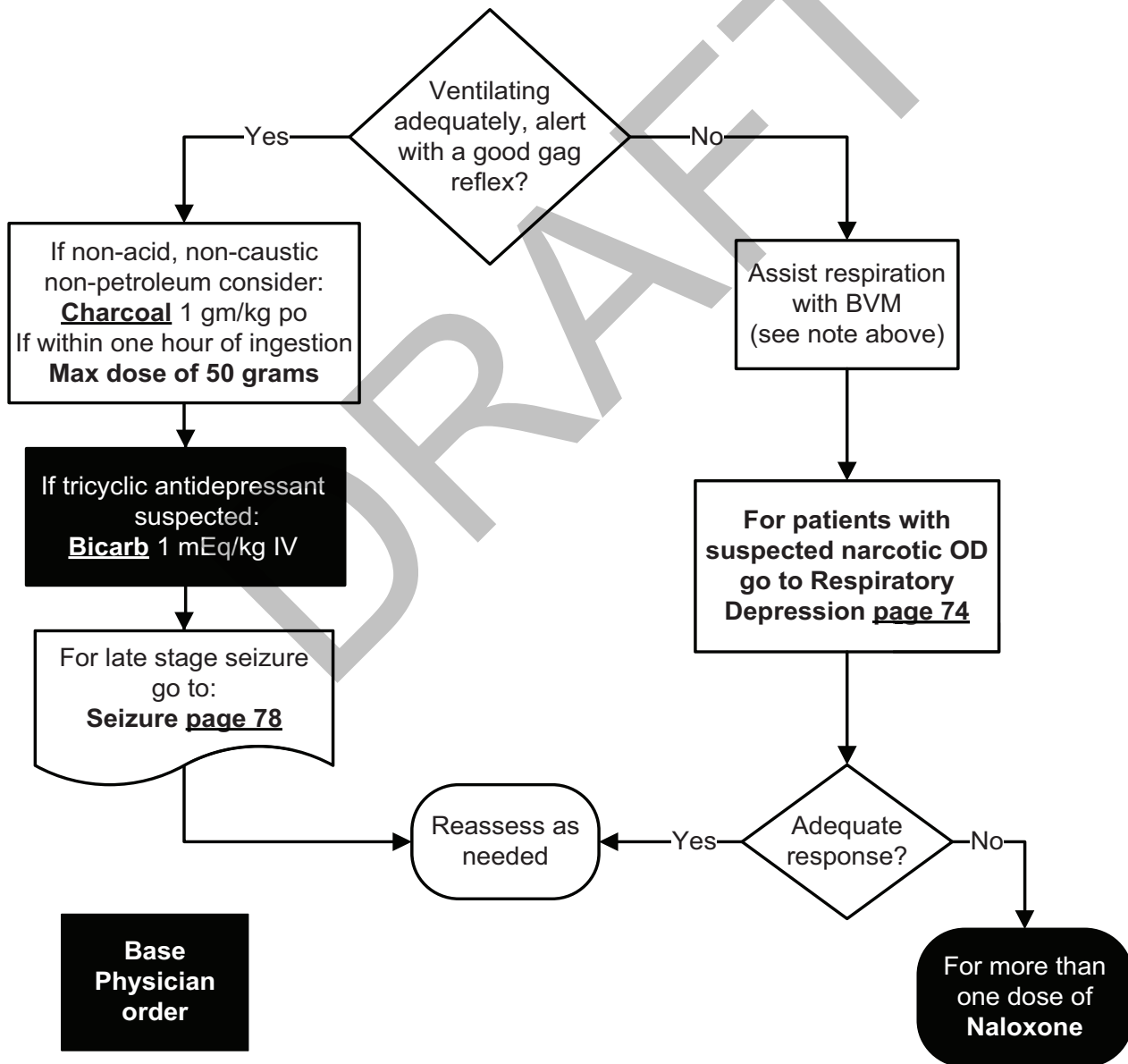
Notes:

- 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

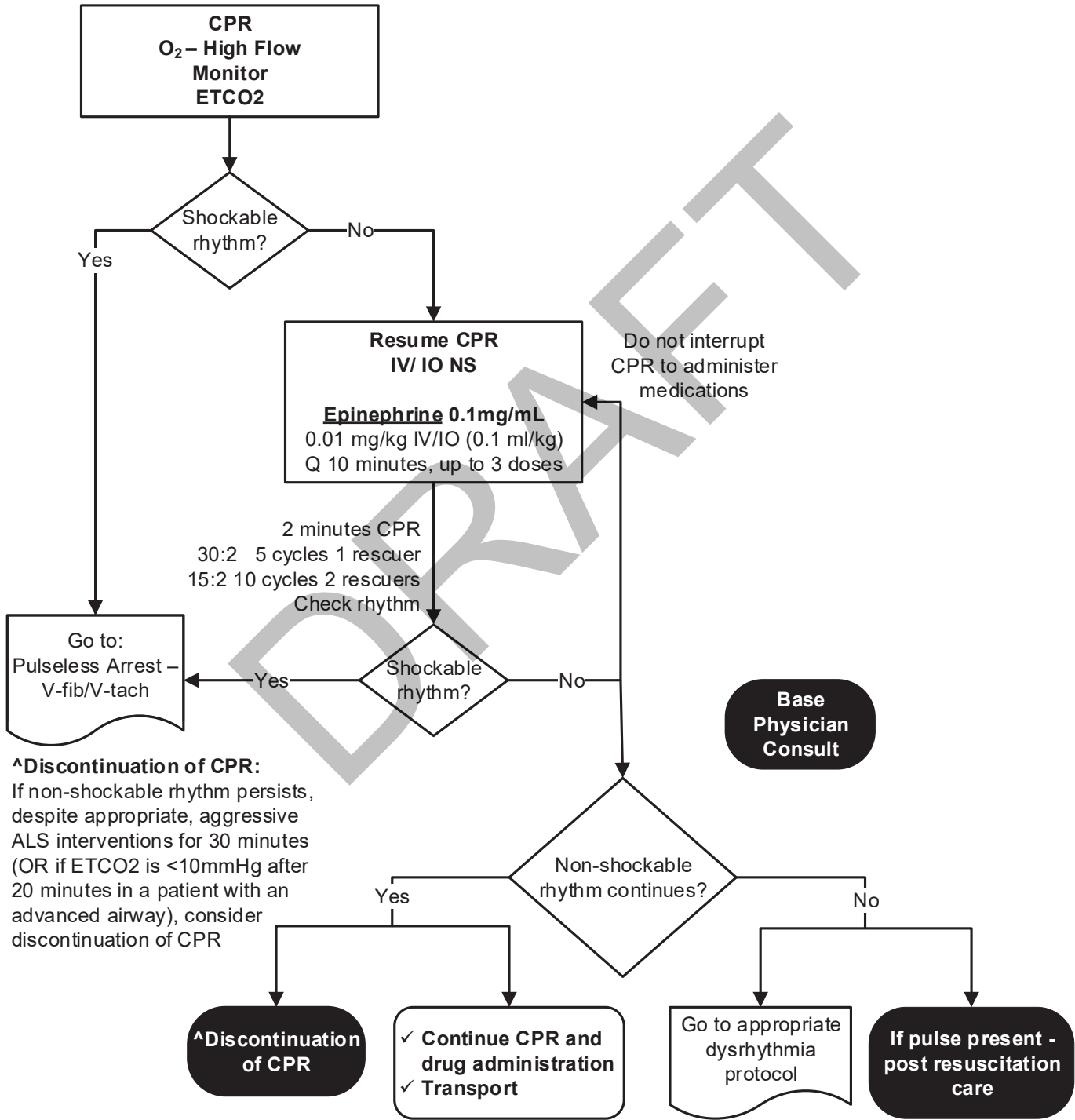
POISONING | INGESTION | OVERDOSE

- **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

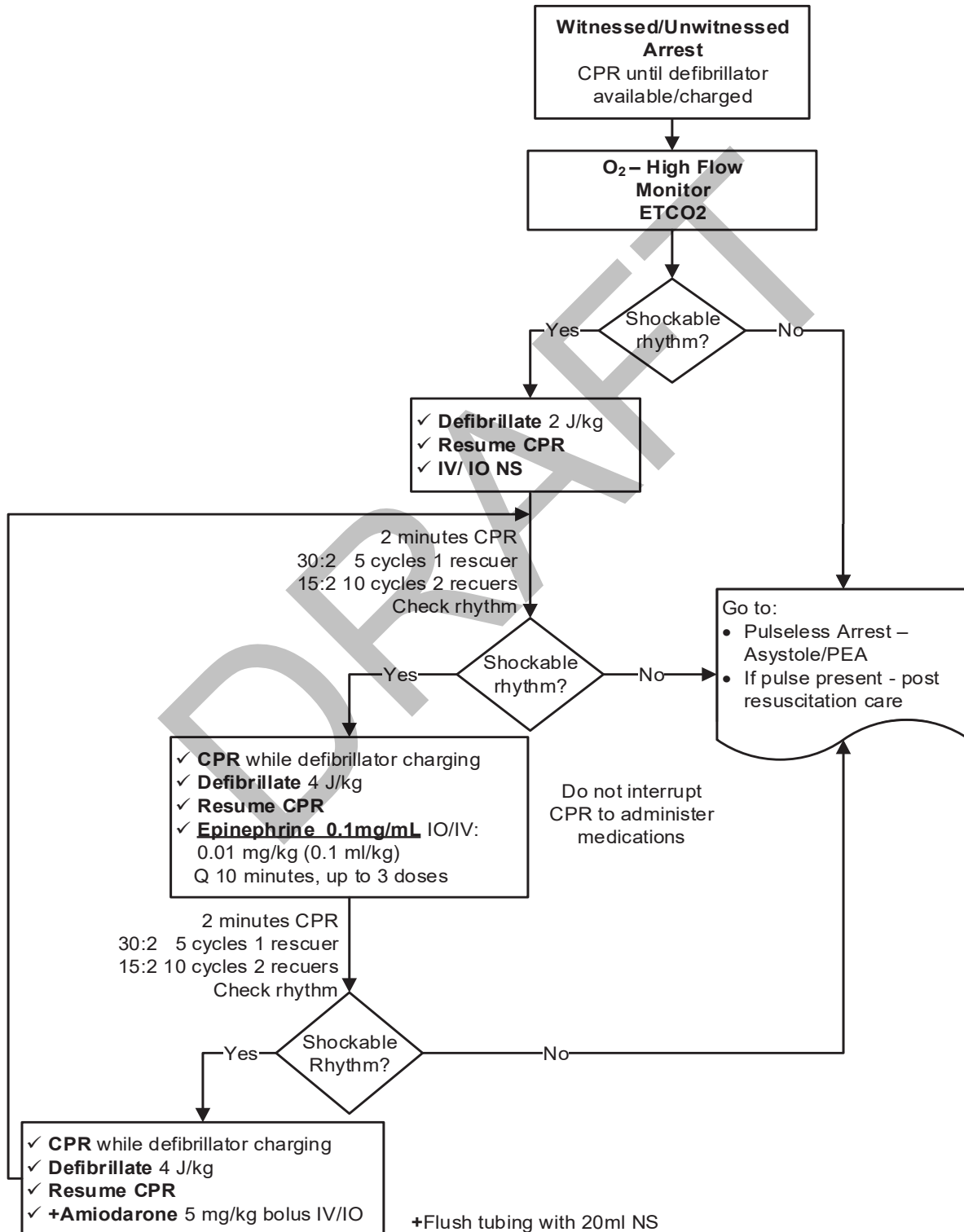
- **Pediatric Routine Medical Care**
- In PEA, identify other causes and treat (See CPR [page 9](#))
- **Note:** Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary. **Consider Advanced Airway Management (page 114) if BVM ventilation is not adequate.**
- **Use an LBRT to determine pediatric drug doses**
(Shown underlined on the algorithm)



^Discontinuation of CPR:
If non-shockable rhythm persists, despite appropriate, aggressive ALS interventions for 30 minutes (OR if ETCO₂ is <10mmHg after 20 minutes in a patient with an advanced airway), consider discontinuation of CPR

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)

- **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

Maintain airway patency and adequate respirations with BLS airway adjuncts and BVM as needed
 Oxygen- titrate to SpO2 of 94-99%
 Consider vascular access

Respiratory rate \leq 12

Naloxone:
 IN/IM/IV- Initial dose: 0.1 mg/kg up to 2 mg *Titrated* to maintain respiratory rate \geq 12
 Repeat as needed to maintain respiratory rate \geq 12 (no max. dose)
BLS Providers may only utilize the IN administration route

If patient is a known/suspected chronic utilizer of narcotics, consider 1:10 dilution of Naloxone:Normal Saline
 Administer in 0.1 mg (1 ml) increments to maintain respiratory rate \geq 12

Monitor/Reassess

Monitor/Reassess

If BVM ventilation and Naloxone are ineffective, consider Advanced Airway placement
 (see page 114)

RESPIRATORY DISTRESS (STRIDOR) – UPPER AIRWAY

•Pediatric Routine Medical Care

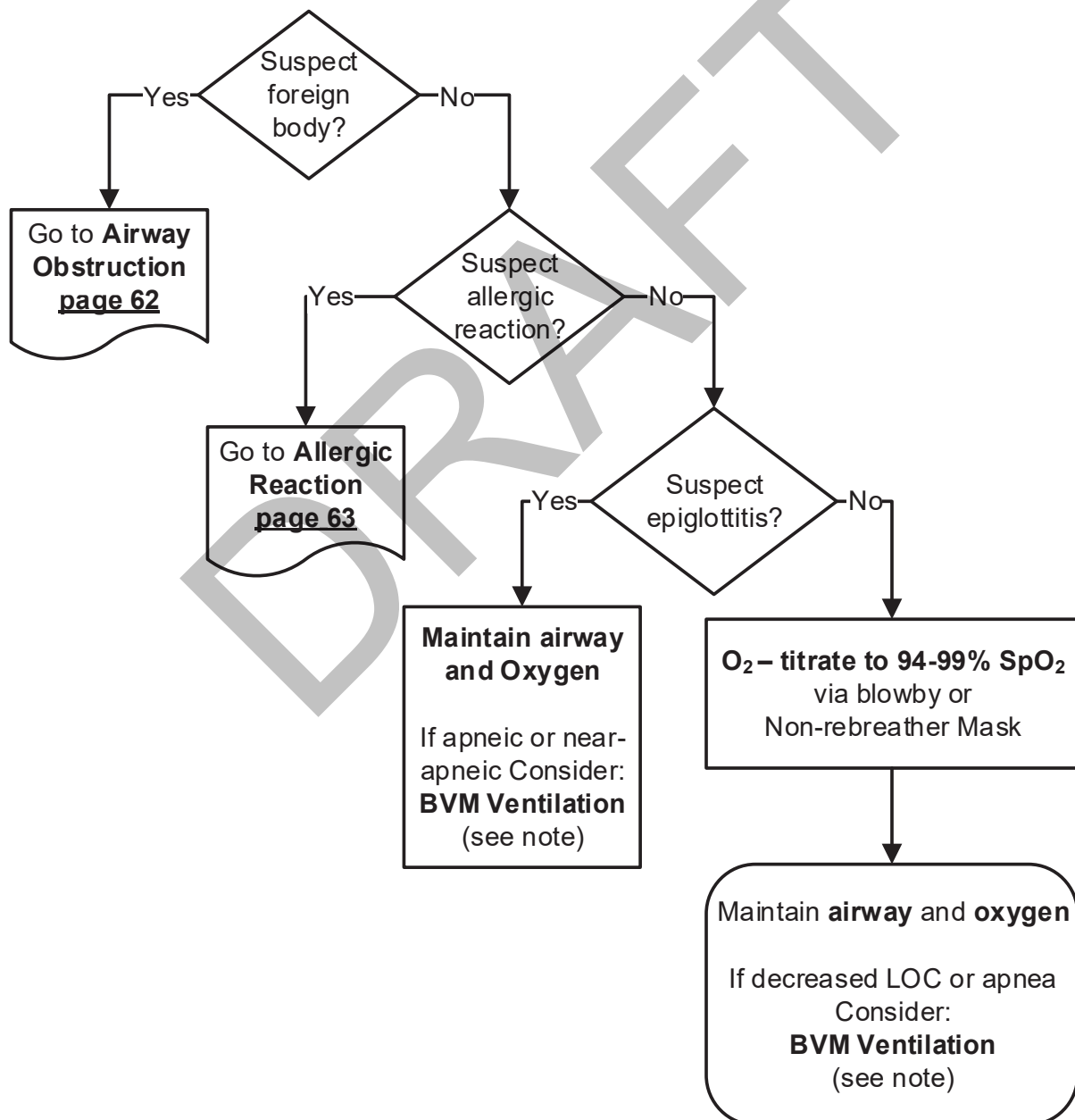
•CROUP/EPIGLOTTITIS:

- 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**

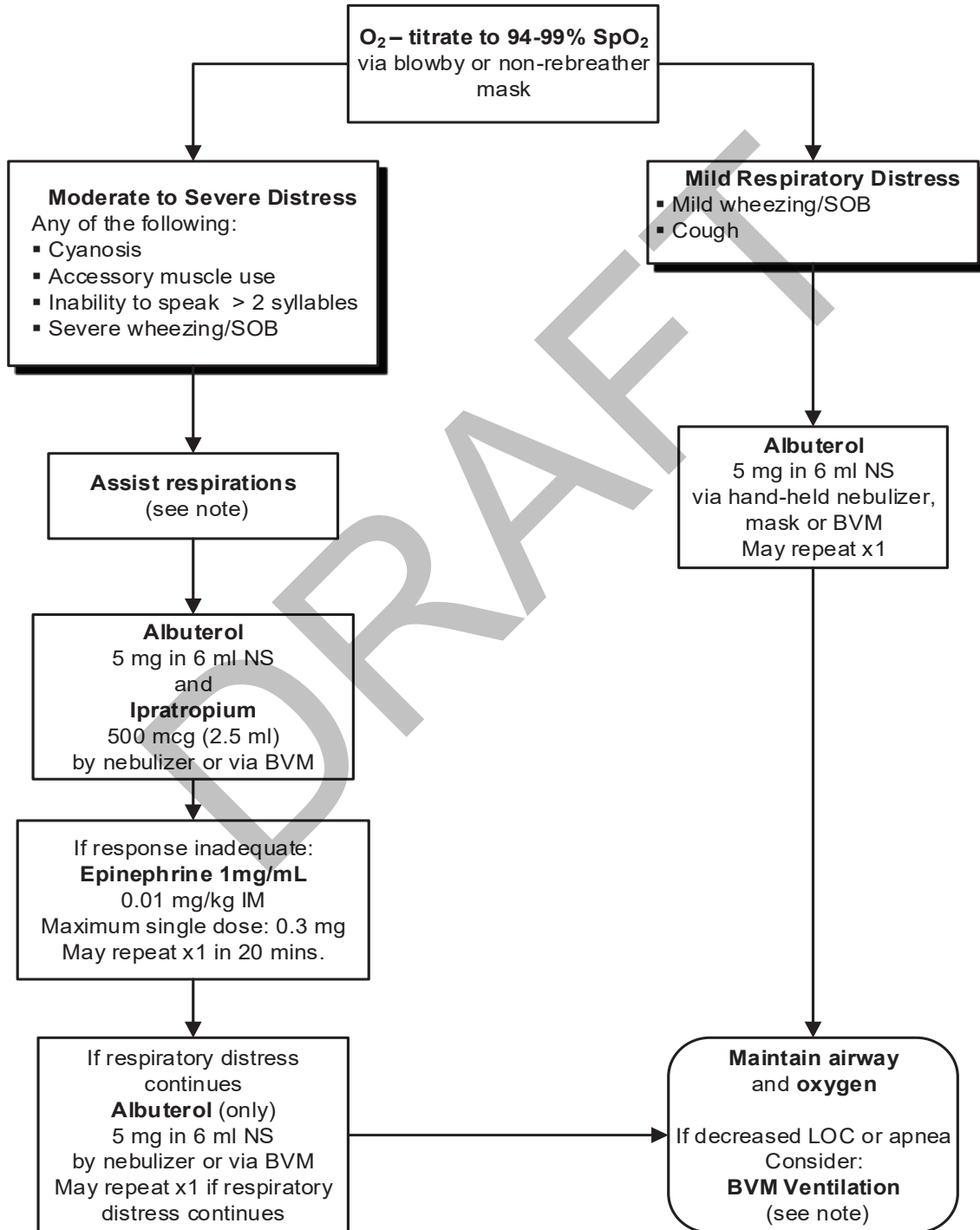
•Use an LBRT to determine pediatric drug doses

(Shown underlined on the algorithm)



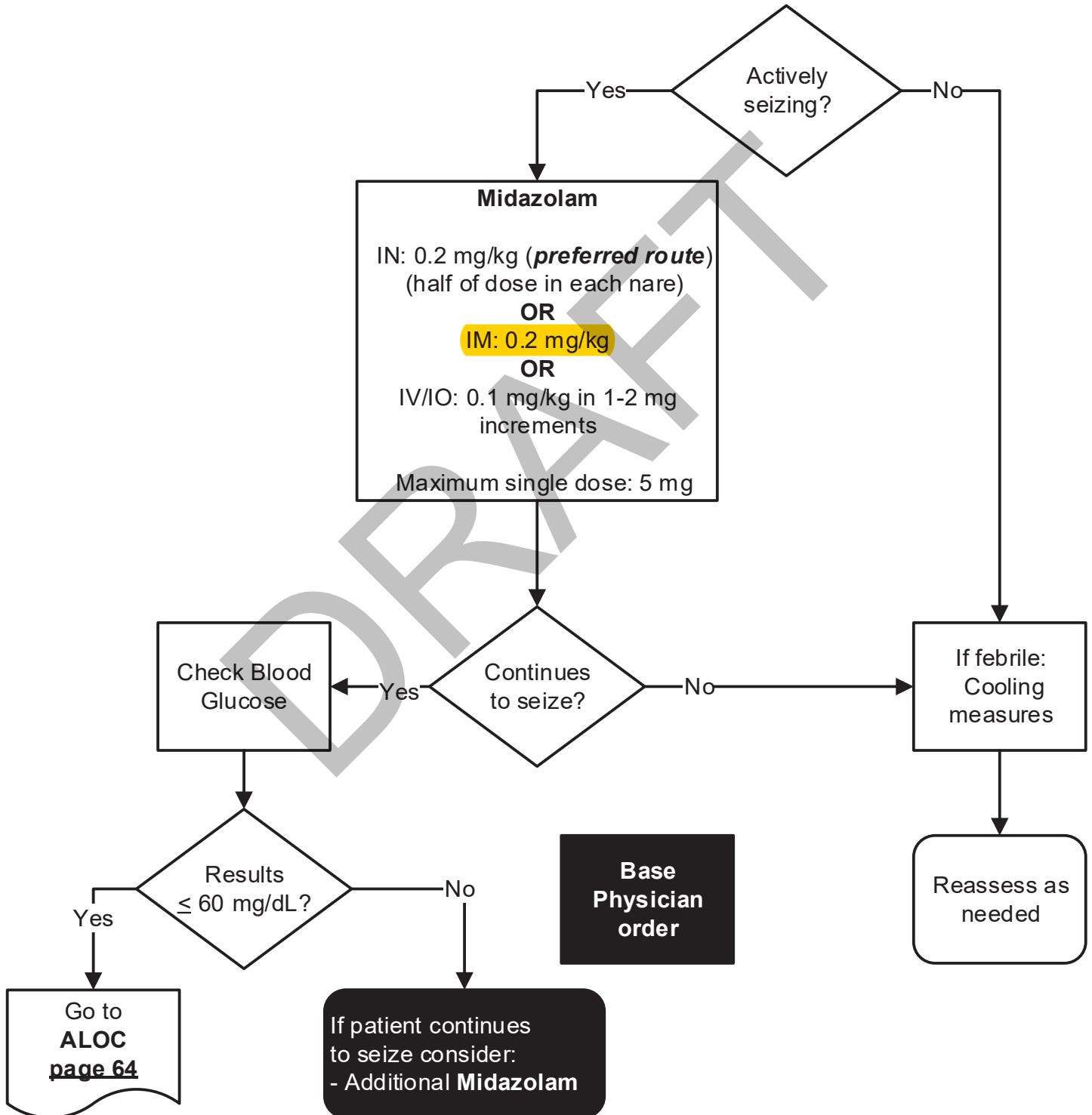
RESPIRATORY DISTRESS (WHEEZING) – LOWER AIRWAY

•**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 underlined on the algorithm)



SEIZURE

- **Pediatric 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
- **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)

WEIGHT	GREY	PINK	RED	PURPLE	YELLOW	WHITE	BLUE	ORANGE	GREEN	OTHER	OTHER
kg	3-5	6-7	8-9	10-11	12-14	15-18	19-22	24-28	30-36	40	45
lbs	6-11	13-15	17-20	22-25	27-31	33-40	42-49	53-62	65-80	90	100
INTRAVENOUS / INTRAOSSEOUS											
0.1 mg/kg IV/IO Dose	0.4 mg	0.65 mg	0.85 mg	1 mg	1.25 mg	1.75 mg	2 mg	2.5 mg	3.3 mg	4 mg	4.5 mg
0.1 mg/kg IV/IO Volume	0.08 ml	0.13 ml	0.17 ml	0.2 ml	0.25 ml	0.35 ml	0.4 ml	0.5 ml	0.65 ml	0.8 ml	0.9 ml
INTRANASAL / INTRAMUSCULAR											
0.2 mg/kg IN/IM Dose	0.75 mg	1.25 mg	1.75 mg	2 mg	2.5 mg	3.5 mg	4 mg	5 mg	5 mg	5 mg	5 mg
0.2 mg/kg IN/IM Volume	0.15 ml	0.25 ml	0.35 ml	0.4 ml	0.5 ml	0.7 ml	0.8 ml	1 ml	1 ml	1 ml	1 ml

USE A 1 ML SYRINGE FOR MIDAZOLAM ADMINISTRATION TO PEDIATRIC PATIENTS

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

EQUIPMENT AND SUPPLY SPECIFICATIONS - ALS/BLS

MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS Non-Transport	ALS Transport
AIRWAY EQUIPMENT			
▼ 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	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 O ₂ 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	1
● Batteries (extra)		1 set	1 set
● Blades (curved McIntosh):			
● Adult			
» # 4		1	1
» # 3		1	1
● Pediatric			
» # 2		1	1
» # 1		1	1
● Adult (Straight Miller)			
» # 4		1	1
» # 3		1	1
● Pediatric			
» # 2		1	1
» # 1		1	1
● Magill forceps:			
» Adult		1	1
» Pediatric		1	1
● Adult (cuffed with adaptor)			
» Size 6.0		1	2
» Size 6.5		1	2
» Size 7.0		1	2
» Size 7.5		1	2
» Size 8.0		1	2
● Stylet			

EQUIPMENT AND SUPPLY SPECIFICATIONS - ALS/BLS

MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS Non-Transport	ALS Transport
»Adult		1	1
• igel Supraglottic Airway			
» Size 1.0.....		1 (optional)	1 (optional)
» Size 1.5.....		1	1
» Size 2.0.....		1	1
» Size 2.5.....		1	1
» Size 3.....		1	1
» Size 4.....		1	1
» Size 5.....		1	1
• Disposable Waveform Capnography.....	2 (optional)	2	5
• ET Tube Holder			
»Adult		2	3
• Tracheal tube introducer (bougie)		1	2
▼ Nebulizer			
• 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:			
• O ₂ Tank (portable)	1	1	1
• Non-rebreather masks (transparent)			
»Adult	2	1	2
»Pediatric/Infant	1	1	1
»Nasal cannula for O ₂ administration	2	1	2
»Portable Pulse-Oximetry	1	1	1
»Adult end-tidal CO ₂ sampling nasal cannula.....		1	1
»Pediatric end-tidal CO ₂ sampling nasal cannula.....		1	1
▶ County-approved pleural decompression kit		1	2
▼ Resuscitation bag-valve with O₂ reservoir			
• Adult	1	1	1
• Pediatric	1	1	1
• Infant	1	1	1
▼ Face masks for resuscitation (BVM)			
»Adult	1	1	1
»Pediatric	1	1	1
»Infant	1	1	1
▼ Suction equipment and supplies:			
• Rigid Suction Catheter.....	1	1	2
• Suction apparatus (portable)	1	1	1
• Suction catheters, pediatric:			

EQUIPMENT AND SUPPLY SPECIFICATIONS - ALS/BLS

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 MATERIALS			
▶ 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	12	6	12
• 10 by 30" or larger universal dressings	2	2	3
• ABD pad (9 x 5")	2	2	2
• Roller bandages (sterile)			
» 2"	2	1	2
» 3"	2	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:			
• Arm 3" x 15"	1	1	2
• Leg 3" x 36"	1	1	2
• Traction Splint		1	1
▼ Tape			
• 1"	1 roll	1 roll	1 roll
• 2"	1 roll	1 roll	1 roll
▶ Triangular Bandage	1	1	2
▶ County Approved Tourniquet (for hemorrhage control)	1	1	1
EQUIPMENT AND SUPPLIES			
▼ Automated External Defibrillator (AED) equipment			
• Automated External Defibrillator - pediatric ready	1		
• "Hands- off" defib pads			
» Adult	1 set		
» Pediatric	1 set		
▶ Blanket Disposable	1	1	1
▼ Blood pressure cuff (portable):			
• Adult	1	1	1
• Obese		1	1
• Pediatric	1	1	1

EQUIPMENT AND SUPPLY SPECIFICATIONS - ALS/BLS

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) may be disposable, or linen (sterilization date indicated)	1	1	1
▶ 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) • aspirating bulb syringe • gloves • drapes • antiseptic solution	1	1	1
▶ 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; however, biphasic is preferred. Energy level dependent upon manufacturer.		1	1
• 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	6 packs
• 12-lead EKG capability		1	1
▶ Pen Light	1	1	1
▶ Point of Wounding (POW) Kit (Items located in this kit may be counted towards minimums of other items in this table)	1 (optional for IFT)	1	1
▶ Radio unit(s) Must be able to function with all facets of the current EBRCS radio system	1	1	1

EQUIPMENT AND SUPPLY SPECIFICATIONS - ALS/BSL

MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS Non-Transport	ALS Transport
▶ Thermometer - patient safe	1	1 (optional)	1
▶ Triage Tags	20	20	20
▶ Triage Tape	1 roll ea. - red, yellow, green, 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 EQUIPMENT			
▶ 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		1 (optional)	2
• 18 gauge		2	2
• 20 gauge		2	2
• 22 gauge		2	2
• 24 gauge		2	2
▶ Chlorhexidine		6	12
▼ Handheld Battery Powered Intraosseous Equipment			
• EZ-IO® Driver		1	1
• 15 mm Needle Set (pink hub, 3kg-39kg)		1 (optional)	2 (optional)
• 25 mm Needle Set (blue hub, >3kg)		1	2
• 45 mm Needle Set (yellow hub, >40kg with excessive tissue)		1	2
• Vascular access pack		1	2
▼ Needles 18g and 25g removed			
• 22 g x 1.5"		1	4
• 23 g x 1"		1	2
• 18 g x 1½" 5 micron filter needle (optional)		1	2

EQUIPMENT AND SUPPLY SPECIFICATIONS - ALS/BLS

MINIMUM SUPPLY SPECIFICATIONS	BLS	ALS Non-Transport	ALS Transport
▶ Pressure Infusion Bags		1	1
▶ Saline Lock		2	2
▼ Syringes (with Luer-Lok™)	1 (optional)		
• 1 mL "Epi-Safe" or equivalent			
• 1 mL		1	2
• 3 mL		1	2
• 10 mL		2	2
• 30 mL		1	2
▶ T-connector		1	2
▶ Tourniquet (for IV start)		1	1
▶ Tubing - Adjustable flow 3-way administration set		1	2
MEDICATIONS AND SOLUTIONS - preloads preferred			
▶ Adenosine 6 mg / 2 mL NS		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
▶ Aspirin 81 mg chewable tablet or 325 mg/5 gr. tablet	1 bottle	1 bottle	1 bottle
▶ Atropine 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

EQUIPMENT AND SUPPLY SPECIFICATIONS - ALS/BLS

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

DRAFT

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*****

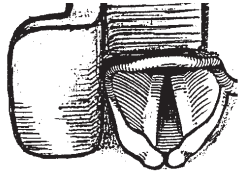
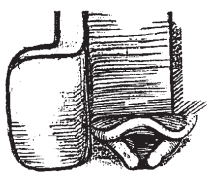
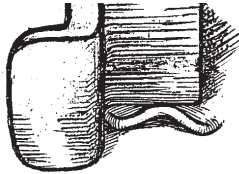
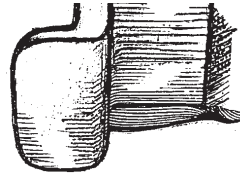
- 1.1 Manage the patient's airway with proper airway positioning, simple airway adjuncts, suctioning, and BVM ventilation as necessary with all patients.
- 1.2 For patients $\geq 40\text{kg}$, ALS personnel are authorized to perform the skill of endotracheal intubation or placement of an SGA.
- 1.3 For patients $< 40\text{kg}$, 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 respond 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. EDD removed

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 intubation attempt is defined as the insertion of the laryngoscope blade into the patient's mouth.
 - 1.1.2 Make no more than 2 total intubation attempts 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.

*Cormack-Lehane scale			
			
Grade 1	Grade 2	Grade 3	Grade 4

ADVANCED AIRWAY MANAGEMENT

1.2 Supraglottic Airway Device (i-gel®)

1.2.1 **Definition:** An supraglottic airway attempt is defined as the insertion of the supraglottic airway device into the patient's mouth.

1.2.2 For patients $\geq 40\text{kg}$, 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 $< 40\text{kg}$, 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 continuous, 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 continuously 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

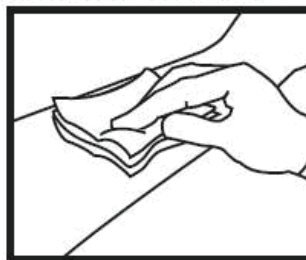
HEMORRHAGE CONTROL

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 gauze 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



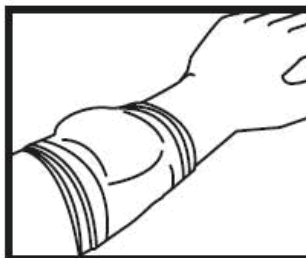
1. Open package and remove **Combat Gauze**. Keep the empty package.



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



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



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

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

SEDATION

1. GENERAL INDICATIONS:

- 1.1 To reduce combative behavior that endangers patient or caregivers
- 1.2 As an adjunct to pain relief for ALS procedures such as cardioversion and/or cardiac pacing
- 1.3 **Use CAUTION with:**
 - ▶ **Concomitant use of an opiate and midazolam can cause significant respiratory depression, hypotension and decreased level of consciousness. Administer concomitantly only when absolutely indicated. Administer lower doses of one or both agents**
 - ▶ **Elderly patients are especially sensitive to the effects of midazolam. They should receive a lower dose and especially close monitoring**
 - ▶ **A very small proportion of patients may have a paradoxical effect (i.e. - increased agitation)**

2. CONTRAINDICATIONS:

- 2.1 **Absolute:**
 - ▶ Sensitivity to midazolam
 - ▶ Systolic BP < 90 mmHg (adult) - *except for patients who need TCP or cardioversion*
 - 2.2 **Relative:**
 - ▶ Nausea/vomiting
 - ▶ Suspected drug/alcohol intoxication
 - ▶ Head injury
 - ▶ Concomitant narcotic administration - (this is a RELATIVE contraindication and is not intended to prevent the use of necessary narcotic analgesia, when indicated)
 - ▶ Depressed mentation
 - ▶ Multiple systems trauma
- (These MAY be the most likely cause for the condition that requires proposed sedation. The best judgment of the paramedic is necessary to evaluate the need for sedation)*

3. PROCEDURE:

- 3.1 Give supplemental oxygen (titrate to 94-99% SpO₂)
- 3.2 Institute continuous cardiac monitoring
- 3.3 Continuously monitor the patient using the Airway Checklist, including ETCO₂
- 3.4 Establish IV access if possible
- 3.5 Be prepared to provide airway/ventilation management
- 3.6 Ensure that receiving hospital personnel are aware that patient has been sedated

INDICATIONS:	MEDICATION – DOSE/ROUTE:
<p>SEDATION INDICATIONS</p> <ul style="list-style-type: none"> ✓To reduce combative behavior that endangers patient or caregivers ✓Anticipated: <ul style="list-style-type: none"> •Cardioversion in the conscious patient •Cardiac pacing in the conscious patient 	<p>MIDAZOLAM: (refer to weight-based chart for dosing guidance)</p> <p>Adult:</p> <ul style="list-style-type: none"> ✓IV/IO (slowly): 1-2 mg increments- titrated to desired degree of sedation. May repeat, q 5 min, to a total max dose of 10 mg ✓IM/IN: 2-5 mg increments- titrated to desired degree of sedation. May repeat q 5 min, to a total max dose of 10 mg <p>Pediatric (> 5kg or <40kg)</p> <ul style="list-style-type: none"> ✓ IV (slowly) / IN (briskly): 0.05 mg/kg - loading dose. Titrate to desired degree of sedation. May repeat x 2, q 5 minutes, to total max dose of 3 mg ✓ IM: 0.1 mg/kg - if unable to establish IV access. May repeat x 1, q 30 minutes

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	<ul style="list-style-type: none"> → 5 Closest 911 Ambulances → 1 EMS Supervisor → EMS TAC channel assigned <p><i>Note: Immediately cancel assigned resource(s) when no longer required</i></p>	<ul style="list-style-type: none"> → Jurisdictional Fire Battalion Chief → County EOA Provider Operations Supervisor → LEMSA Duty Officer
MCI Response 2	<ul style="list-style-type: none"> → 5 Closest Ambulances → 1 EMS Supervisor → 1 DMSU <p><i>Note: Immediately cancel assigned resource(s) when no longer required</i></p>	<ul style="list-style-type: none"> → All County Fire Duty Chiefs
<i>Resources in MCI Response 2 are in addition to resources assigned in MCI Response 1</i>		
MCI Response 3	<ul style="list-style-type: none"> → 5 Closest Ambulances → 1 EMS Supervisor → Consider Air Assets <p><i>Note: Immediately cancel assigned resource(s) when no longer required</i></p>	
<i>Resources in MCI Response 3 are in addition to resources assigned in MCI Response 2</i>		
Additional Levels	<p>For Each Additional level:</p> <ul style="list-style-type: none"> → 5 Closest Ambulances → 1 EMS Supervisor 	

MULTI-CASUALTY INCIDENT - EMS RESPONSE

MCI LEVELS	
MCI Level	Approximate Patient Count
I	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

- 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	
<p>Non-Trauma patients** to each Alameda County receiving hospital (for a total of 6):</p> <ul style="list-style-type: none"> ✓ Two (2) "Immediate" ✓ Four (4) "Delayed" and/or "Minor" <p style="text-align: center;"><small>** e.g.: Medical incident, HazMat</small></p>	<p>Trauma patients to each Alameda County Trauma Center (for a total of 7):</p> <ul style="list-style-type: none"> ✓ 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 Transportation 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