



Field Treatment Protocols

OSF Saint James John W Albrecht Medical Center EMS System
0257

Medical Director:
Michael Daley, MD

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OSF Saint James John W Albrecht Medical Center EMS System 0257

Field Treatment Protocols

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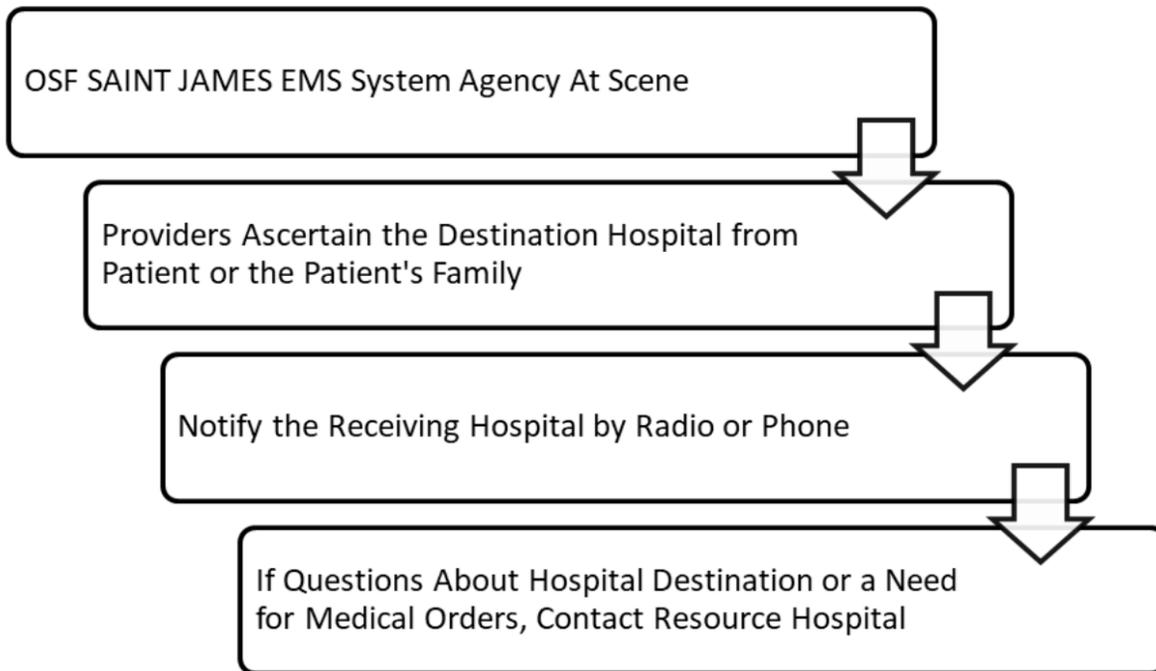
Version History

Acceptable Abbreviations

1 ^o	first degree	D/C	discontinue
2 ^o	second degree	dL	deciliter
3 ^o	third degree	DNR	do not resuscitate (order)
♀	female	D.O.A.	dead on arrival
♂	male	D5W/D10W	5%/10% dextrose in water
@	at	ECG or EKG	electrocardiogram
abd	abdomen	ECRN	emergency communications radio nurse
AC	antecubital	E.D.	emergency department
ACS	acute coronary syndrome	EMR	emergency medical responder
AED	automated external defibrillator	EMS	emergency medical services
AEMT	advanced emergency medical technician	EMT	emergency medical technician
a-fib	atrial fibrillation	EMT-B	emergency medical technician - basic
a-flutter	atrial flutter	EMT-P	emergency medical technician - paramedic
AHA	American Heart Association	ET or ETT	endotracheal tube
ALS	advanced life support	ETA	estimated time of arrival
AM	between 12 midnight & 12 noon	ETOH	alcohol
A.M.A.	against medical advice	^o F	degrees Fahrenheit
AMI	acute myocardial infarction	F.B.	foreign body
amt	amount	FR	first responder
ant	anterior	FR-D	first responder – defibrillation
approx.	approximately	ft	foot/ feet
ARC	American Red Cross	GCS	Glasgow coma score
AROM	active range of motion	GERD	gastro esophageal reflux disease
ASA	aspirin (acetylsalicylic acid)	GI	gastro-intestinal
AV	arteriovenous (as in AV graft or AV shunt)	GLF	ground-level fall
BLS	basic life support	grav.	Gravida (number of pregnancies)
BP or B/P	blood pressure	GSW	gunshot wound
BPM	beats per minute	gtts	drops
BVM	bag valve mask	hx	history
^o C	degrees Celsius	ICU	intensive care unit
CABG	coronary artery bypass graft	IDDM	insulin dependent diabetes mellitus
CAO	conscious, alert, oriented	ILS	intermediate life support
CCT	Critical Care Transport	IM	intramuscular
CHF	congestive heart failure	IN	intra-nasal
CNS	central nervous system	IO	intraosseous
c/o	complaint(s) of	irreg	irregular
COPD	chronic obstructive pulmonary disease	IV	intravenous
CP	chest pain	IVP	intravenous push
CPAP	continuous positive airway pressure	J	Joules
CPR	cardiopulmonary resuscitation	JD	jugular vein distention
CVA	cerebrovascular accident (stroke)	kg	kilogram
		l	liter
		lb	pound
		LLQ	left lower quadrant
		LMP	last menstrual period
		LSB	long spine board
		LOC	loss of consciousness
		lpm	liters per minute
		LR	Lactated Ringer's
		lt or $\text{\textcircled{L}}$	left
Δ	change	LUQ	left upper quadrant
D.A.S.	dead at scene	MAE	moves all extremities

LLQ	left lower quadrant	PVD	peripheral vascular disease
LMP	last menstrual period	Q or q	every
LSB	long spine board	RR	respiratory rate
LOC	loss of consciousness	ROM	range of motion
lpm	liters per minute	ROSC	return of spontaneous circulation
LR	Lactated Ringer's	rt or ®	right
lt or ④	left	RUQ	right upper quadrant
LUQ	left upper quadrant	SBP	systolic blood pressure
MAE	moves all extremities	SL	sublingual
MCA	motorcycle accident	SMO	standing medical order
mcg	microgram	SMR	spinal motion restriction
mEq	milliequivalent	SpO2	saturation of peripheral oxygen (pulse oximetry)
mg	milligrams	SQ	subcutaneous
M.I.	myocardial infarction	SVT	supraventricular tachycardia
min	minute	T	temperature
ml	milliliter	TBSA	total body surface area
mmHg	millimeters of mercury	TKO	to keep open
MVC	motor vehicle collision	TXA	Tranexamic Acid
NC	nasal cannula	VF	ventricular fibrillation
NIDDM	non-insulin dependent diabetes mellitus	VT	ventricular tachycardia
NKA	no known allergies	X	times
NG	nasogastric	y.o.	year old
NRB	nonrebreather mask		
NS	normal saline (0.9% saline)		
NSR	normal sinus rhythm		
NTG	nitroglycerin		
N/V/D	nausea/ vomiting/ diarrhea		
∅	no, none		
O2	oxygen		
O.D.	right eye		
OD	overdose		
OG	Orogastric		
O.S.	left eye		
O.U.	both eyes		
P	pulse		
para	children (number of live births)		
PAT	paroxysmal atrial tachycardia		
PCS	pediatric coma score		
P.E.	physical exam		
PE	pulmonary embolism		
PEA	pulseless electrical activity		
per	by way of		
PERRL	pupils equal round and react to light		
PM	between 12 noon & 12 midnight		
po	per os (by mouth)		
POLST	Physician Orders for Life Sustaining Treatment		
pr	per rectal		
PSVT	paroxysmal supraventricular tachycardia		
pt.	patient		
PTCA	percutaneous thrombolytic coronary angioplasty		
PVC	premature ventricular contraction		

Communications Flow



NO RESPONSE FROM RECEIVING HOSPITAL

If you receive no response from the destination hospital after repeated attempts, contact the Resource Hospital for patient report.

A written explanation (Incident Report Form) of each occurrence of radio communication failure must be completed by the involved prehospital provider and submitted to the OSF SAINT JAMES EMS System Office within 24 hours after the occurrence.

Patient Radio Report

Contact should be made with the receiving hospital in a timely manner and the following information about each patient should be relayed.

- 1) MERCI Identifier, highest level of care available on the unit (BLS, ILS, ALS)
- 2) Age, sex,
- 3) If the patient's immediate condition is life-threatening and/or the patient is hemodynamically unstable, please state that you have a critical patient.
- 4) Present complaint:
 - a) Chief complaint/mechanism of injury/nature of illness.
- 5) Physical exam
 - a) Loss of consciousness/mental status (GCS if trauma patient)
 - b) Pertinent exam findings
 - c) Blood pressure
 - d) Pulse
- e) Respirations/lung sounds
- 6) ECG/12-lead findings, if applicable and pertinent.
- 7) Treatment provided and responses to treatment
- 8) ETA to hospital (actual transport time).

Points to remember:

- Transmit patient's initials only if requested by receiving hospital. If a name is requested, call receiving hospital on a secure telephone line.
- Radio transmissions need to be concise and **include only pertinent information.**
- If patient's condition precludes gathering all the above information, an initial report may be made with pertinent information. Then contact with more information and an update in patient's condition.
- If patient meets trauma, STEMI, sepsis or stroke criteria, receiving hospital shall be notified immediately with an early notification.

Miscellaneous Guidelines

AV FISTULAS, SHUNTS, AND GRAFTS

- Can be utilized in cardiac arrest if an IO cannot be established. Refer to *AV Fistulas, Shunts, and Grafts* procedure.

BLIND AIRWAY INSERTION DEVICES (BIAD)

- Only BIADs approved by the EMS System may be utilized.

IV ATTEMPTS

- No more than two (2) peripheral IV attempts shall be made while at scene. Up to two (2) more attempts may be made while enroute, if indicated. Peripheral IVs include IVs initiated on the extremities.
- Except during actual entrapment, all vascular access attempts on “load and go” patients shall be made while enroute to the receiving facility.

BLOOD DRAWS

- Labs should be drawn on all patients with IV/IO access. Refer to *Blood Draw* procedure for further guidance.

EXTERNAL JUGULAR IV ACCESS

- External jugular vein access can be considered only after IO and IV attempts have been exhausted. External jugular access should be considered as a last resort. External jugular access is a paramedic-only skill.

INTRAOSSEOUS INFUSIONS

- Intraosseous access may only be attempted by advanced providers. Only two attempts to establish an intraosseous infusion may be made.
- Intraosseous access may be utilized initially on any hemodynamically unstable patient. Providers are limited to 1 peripheral IV attempt on hemodynamically unstable patients.
- Intraosseous access shall be utilized initially on cardiac arrest patients.
- Only intraosseous access devices approved by the EMS System may be utilized.

MEDICAL CONTROL

- ECRNs may give medical control orders after consultation with an attending physician.

Intranasal Medications

- All intranasal medications may not exceed 1mL per nare

ENDOTRACHEAL INTUBATION

- No more than 2 attempts per advanced provider or 3 attempts total per patient shall be made. (Except in RSI Protocol, only 1 attempt is allowed)
- An attempt is defined as the ET tube inserted into the oral cavity.
- Bougie®Blind Intubation assistance device may be used in intubation attempts.
- Only intubation assist devices approved by the EMS System may be utilized.

STANDARD PRECAUTIONS

EMS personnel should use common-sense precautions against transmission of infectious/contagious diseases when caring for any patient. Appropriate personal protective equipment must be worn when exposure to blood or other potentially infectious materials is reasonably anticipated. Reference the *Communicable Disease Policy* for more information. Providers shall be familiar with their agency's infection control policies and procedures.

Fluid Note

Lactated Ringers will be the primary fluid for our EMS system. However, in the event of a shortage, Normal Saline may be used as a substitute for all protocols that use Lactated Ringers. Expiring Saline may be substituted as needed.

All medications given via infusion must use Normal Saline or D5W (if compatible) to administer the infusion.

Drug Shortage - Dextrose

D10W can be substituted with D50 if D10W is on shortage or unavailable. The dose is 25g of D50 titrated to affect.

Abuse Hotline

Child Abuse – 1-800-252-2873

Elder (Home) – 1-866-800-1409

Abuse Hotline

Child Abuse – 1-800-252-2873

Elder (Home) – 1-866-800-1409

Elder (Supportive Living Facilities) – 1-800-226-0768

Elder (Nursing Home) – 1-800-252-4343

Lab Draw Order

The following order is recommended for drawing tubes

Blood Tube Color/Name	# of times to invert
Citrate Tube – Light Blue	8 – 10 times
BD SST – Red Speckled or Gold	5 times
Serum Tubes – Red	5 times
BD Rapid Serum Test (RST) – Orange	5 to 6 times
Heparin Tube – Dark Green	8 to 10 times
Lithium Heparin – Mint Green	8 to 10 times
EDTA – Lavender/Pink	8 to 10 times
Glucose – Gray	8 to 10 times

Glasgow Coma Scale

Glasgow Coma Scale		
Response	Scale	Score
Eye Opening Response	Eyes open spontaneously	4 Points
	Eyes open to verbal command, speech, or shout	3 Points
	Eyes open to pain (not applied to face)	2 Points
	No eye opening	1 Point
Verbal Response	Oriented	5 Points
	Confused conversation, but able to answer questions	4 Points
	Inappropriate responses, words discernible	3 Points
	Incomprehensible sounds or speech	2 Points
	No verbal response	1 Point
Motor Response	Obeys commands for movement	6 Points
	Purposeful movement to painful stimulus	5 Points
	Withdraws from pain	4 Points
	Abnormal (spastic) flexion, decorticate posture	3 Points
	Extensor (rigid) response, decerebrate posture	2 Points
	No motor response	1 Point

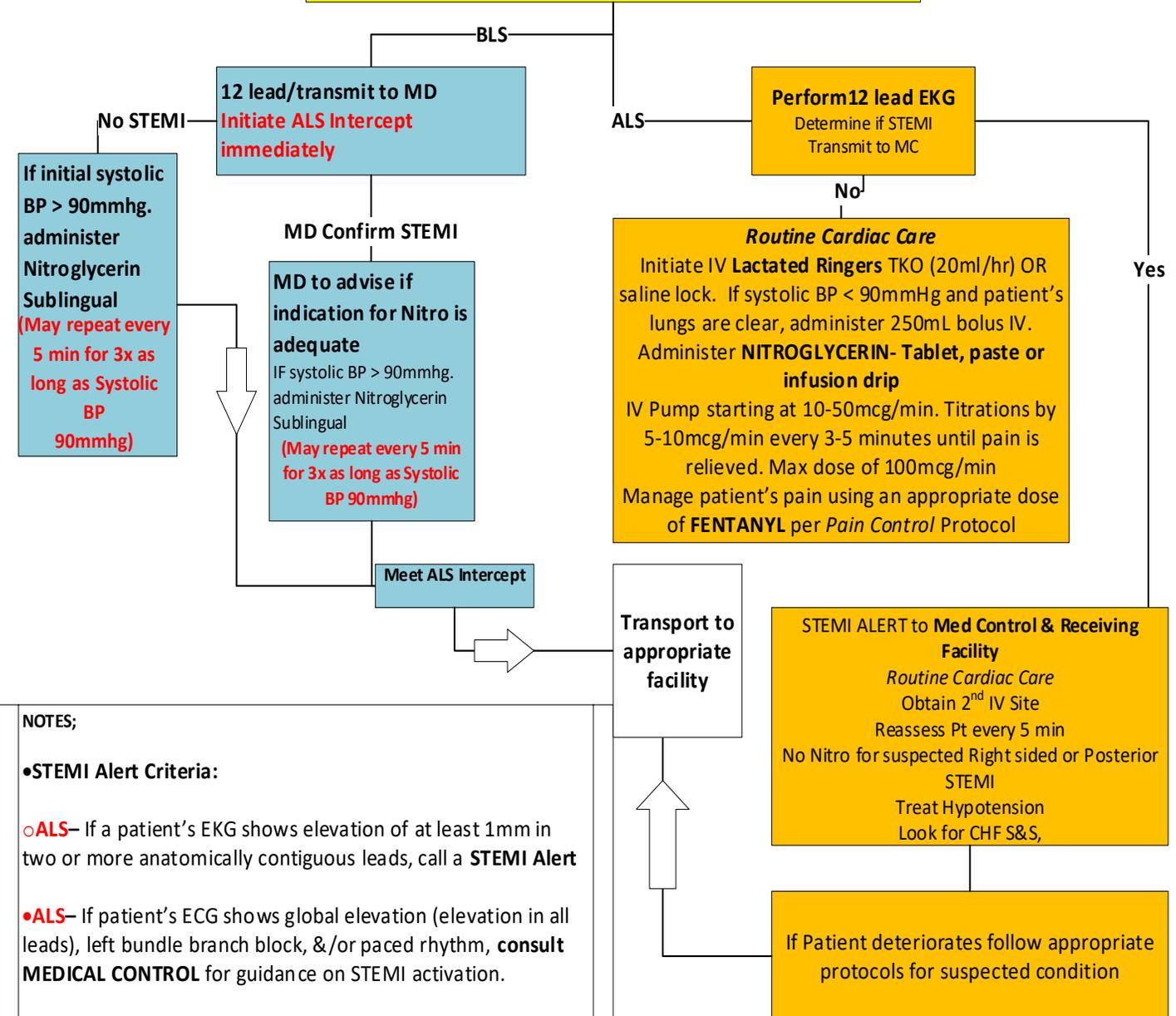
Cardiac/Chest Pain Protocol # C100

EMR/ALL

BLS

ALS

Determine Level of Consciousness
Establish/Assess ABC's
Obtain Pulse ox reading
Administer supplemental O2 as needed
Obtain Vital Signs
SAMPLE History
Administer baby aspirin 324mg
Loosen restrictive clothing, place in position of comfort
Reassess every 5 minutes



NOTES;

•STEMI Alert Criteria:

○ALS- If a patient's EKG shows elevation of at least 1mm in two or more anatomically contiguous leads, call a **STEMI Alert**

●ALS- If patient's ECG shows global elevation (elevation in all leads), left bundle branch block, &/or paced rhythm, **consult MEDICAL CONTROL** for guidance on STEMI activation.

●BLS/ ALS- If the ECG meets STEMI criteria, administer **ASPIRIN** (total dose of 324mg) chewable tablets.

Medication Considerations

Medication	Route	Notes
ASPIRIN (ASA)	Oral	<ul style="list-style-type: none"> • DO NOT give ASPIRIN to a patient with a history of ASPIRIN allergy. • ASPIRIN shall not be administered if appropriate dose was given immediately prior to arrival. If ASPIRIN was administered immediately prior to arrival, but total dose was under 324mg, administer additional ASPIRIN to ensure cumulative dose of 324 mg.
NITROGLYCERIN	Sublingual	<ul style="list-style-type: none"> • Do not give NITROGLYCERIN to patients who have taken phosphodiesterase inhibitors (For example Viagra, Cialis, or Levitra) within the past 48 hours. Contact medical control for orders. • IF the heart rate is greater than 130 bpm, contact MEDICAL CONTROL prior to administering NITROGLYCERIN • (ALS) If patient has an inferior wall MI, consider withholding NITROGLYCERIN
	Intravenous	<ul style="list-style-type: none"> • Do not give NITROGLYCERIN to patients who have taken phosphodiesterase inhibitors (For example Viagra, Cialis, or Levitra) within the past 48 hours. Contact medical control for orders. • Contact medical control prior to administering NITROGLYCERIN if heart rate is greater than 130 • (ALS) If patient has an inferior wall MI, consider withholding Nitroglycerin • NITROGLYCERIN drips must be administered utilizing specialized tubing and a pump. No other medications may be administered through the NITROGLYCERIN tubing. • If the maximum dose of NITROGLYCERIN is reached and the patient continues to have chest pain, contact MEDICAL CONTROL for further instructions.
FENTANYL	Intravenous	<ul style="list-style-type: none"> • If the heart rate is greater than 130 bpm, contact MEDICAL CONTROL prior to administering FENTANYL. • Avoid IM administration

Cardiopulmonary Arrest

Protocol # C105

EMR/ALL

BLS

ALS

- Initiate CPR if not already in progress. Follow Adult Basic Life Support Algorithm (see below).
- Utilize BVM with 15lpm supplemental **OXYGEN**, if available.
- Check for pulse after 2 minutes. If no pulse, resume CPR.
- As soon as available, apply defibrillator/AED. Follow prompts on AED.
- Ensure transport EMS has been activated. Request advanced intercept early.
- Insert system approved blind insertion airway device (BIAD). **Once inserted, confirm tube placement using a combination of at least 3 of the following indicators:**
 - -A consistent wave form on a capnometry reading device.
 - -Auscultation of lung sounds bilaterally.
 - -Absence of gurgling over the epigastrium
 - -Presence of chest rise and fall with ventilation.
- If the BIAD is confirmed, ventilate using a BVM with 15lpm supplemental **OXYGEN** at a rate of 10 breaths per minute. If the BIAD is not confirmed, remove the device and continue ventilating at a rate of 30:2 using a BVM with 15lpm supplemental **OXYGEN**

SEE ADULT BLS Algorithm
*If ALS is less than 15 minutes,
consider remaining on scene doing
high quality CPR*

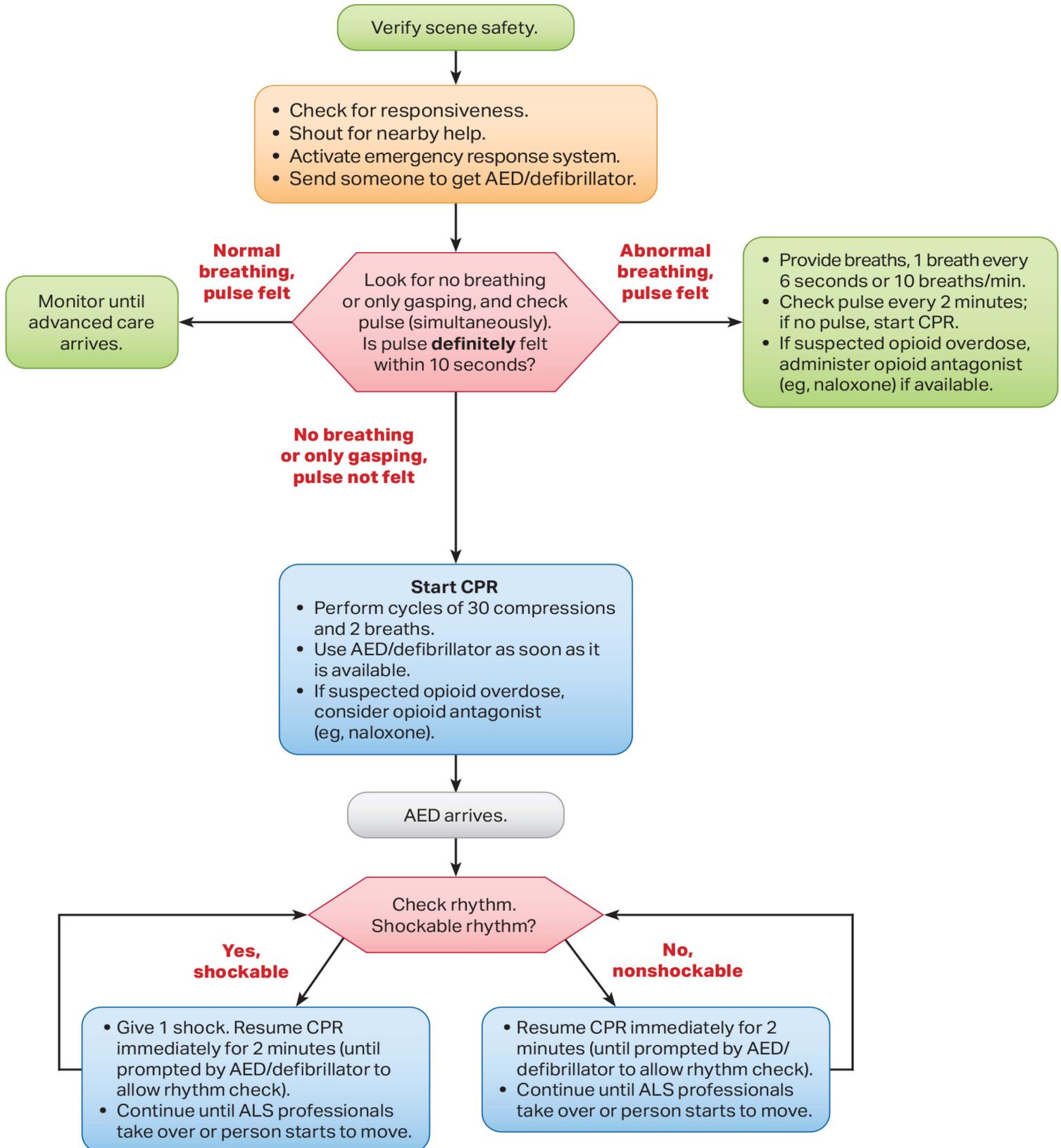
SEE ADULT ALS Algorithm

NOTES:

- If ROSC has not been achieved after a reasonable resuscitation effort based on patient factors and event details (witness arrest, downtime, etc.), institute *Cardiac Resuscitation vs. Cease Efforts and Coroner Notification* policy. Resuscitation efforts must continue until a cease efforts order has been received from medical control.

BLS ALGORITHM # C105A

Adult Basic Life Support Algorithm for Healthcare Providers



*If signs of puberty, treat as adult.

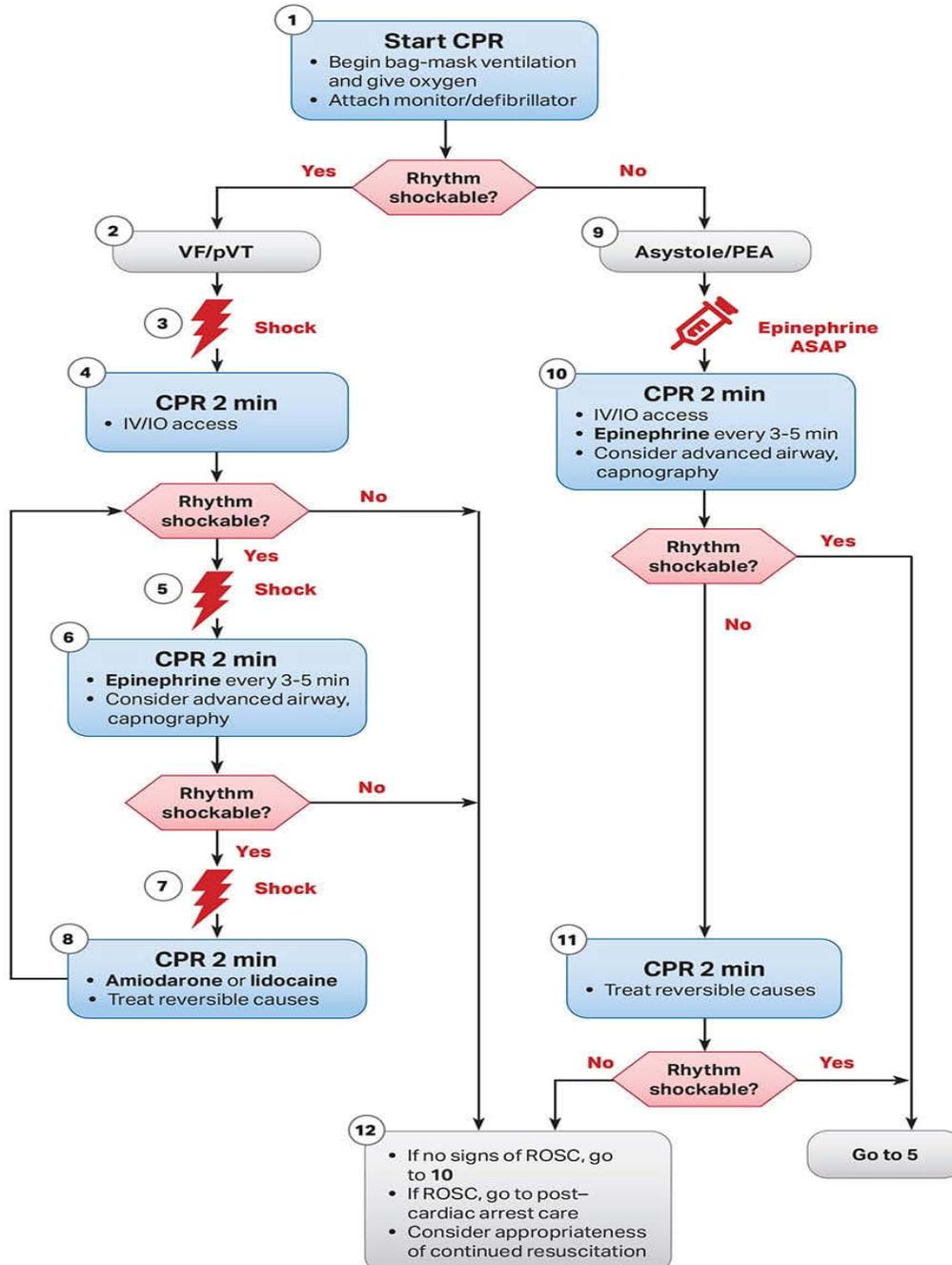
Cardiopulmonary Arrest V-fib/V-tach/Asystole-PEA Protocol # C110

EMR/BLS

ALS

- EMR/BLS follow Cardiopulmonary Arrest protocol #105A

Adult Cardiac Arrest Algorithm (VF/pVT/Asystole/PEA)



High-Quality CPR

- Push hard (at least 2 inches [5 cm]).
- Push fast (100-120/min) and allow complete chest recoil.
- Minimize interruptions in compressions.
- Avoid excessive ventilation.
- Change compressor every 2 minutes, or sooner if fatigued.
- If no advanced airway, use 30:2 compression-ventilation ratio.
- If advanced airway in place, give 1 breath every 6 seconds (10 breaths/min) with continuous chest compressions.
- Continuous waveform capnography
 - If ET CO_2 is low or decreasing, reassess CPR quality.

Shock Energy for Defibrillation

- **Biphasic:** Manufacturer recommendation (eg, initial dose of 120-200 J); if unknown, use maximum available. Second and subsequent doses should be equivalent, and higher doses may be considered.
- **Monophasic:** 360 J

Drug Therapy

- **Epinephrine IV/IO dose:** 1 mg every 3-5 minutes
- **Amiodarone IV/IO dose:** First dose: 300 mg bolus
Second dose: 150 mg
or
Lidocaine IV/IO dose: First dose: 1-1.5 mg/kg
Second dose: 0.5-0.75 mg/kg

Advanced Airway

- ET intubation or supraglottic advanced airway
- Continuous waveform capnography or capnometry to confirm and monitor ET tube placement

Reversible Causes

- Hypovolemia
- Hypoxia
- Hydrogen ion (acidosis)
- Hypo-/hyperkalemia
- Hypothermia
- Tension pneumothorax
- Tamponade, cardiac
- Toxins
- Thrombosis, pulmonary
- Thrombosis, coronary

Notes:

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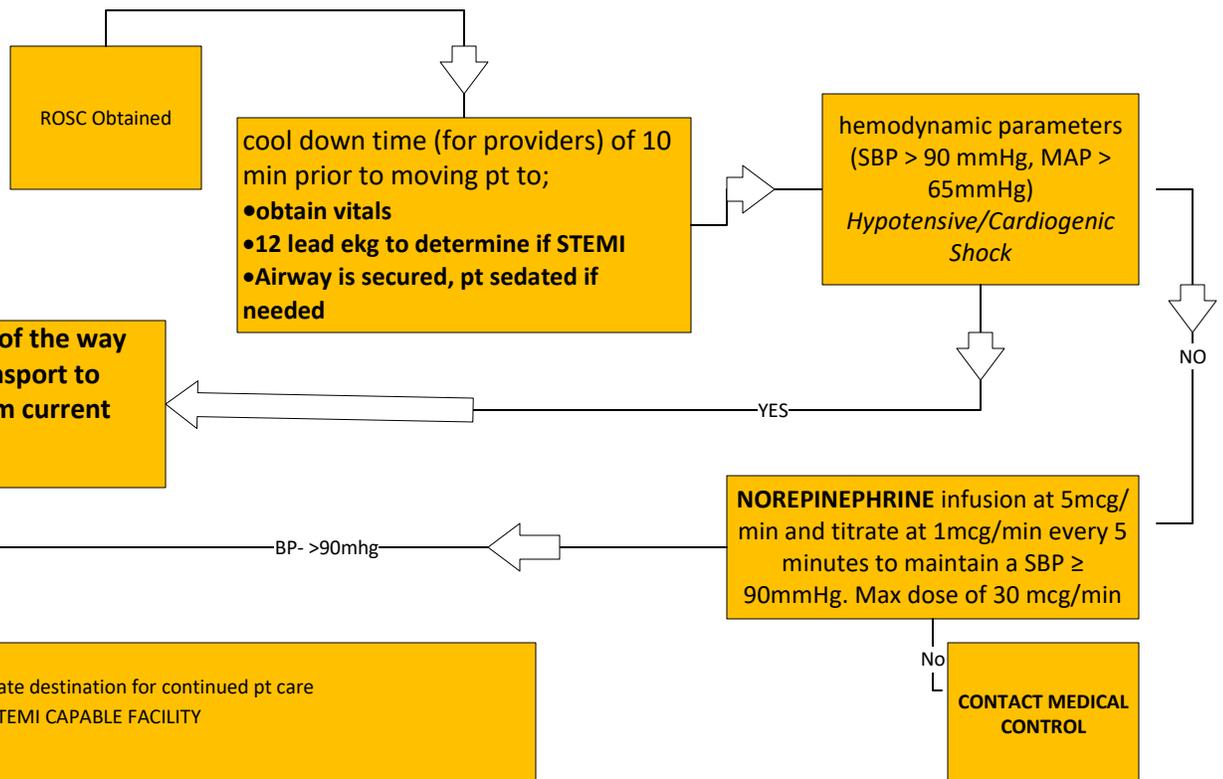
- **Mag Sulfate** for Torsade's de pointes or digitalis toxicity. DO NOT GIVE WITH HX of RENAL FAILURE
- **Sodium Bicarb** for prolonged downtime >20 minutes,
- **Be sure to flush 50ml bolus after administration of all meds**
- Consider **Calcium Glucanate** 1g IV/IO for Hyperkalemia, hx of Chronic Kidney disease.
- Consider Contacting **Medical Control** for cases of Blunt PEA

**POST-RETURN OF SPONTANEOUS CIRCULATION
(POST-ROSC 10 minute Cool Down)
Protocol # C115**

EMR/EMT

- Confirm palpable pulse (matches monitor, if available)
- If not preformed, request advanced intercept.
- Maintain airway. If the patient does not have a blind insertion airway device (BIAD) and **is not breathing independently**, place an appropriately sized blind insertion airway device (BIAD). **Once inserted, confirm tube placement using a combination of at least 3 of the following indicators:**
 - A consistent wave form on a capnometry reading device.
 - Auscultation of lung sounds bilaterally.
 - Absence of gurgling over the epigastrium
 - Presence of chest rise and fall with ventilation.
- If the patient is not breathing or breathing < 10 breaths/min, provide ventilations at a rate of 10 breaths/min via BVM
- Titrate **OXYGEN** to maintain an SPO2 of 92-98%
- Obtain 12-lead ECG.
- Check blood glucose.
- Provider early hospital notification for post-cardiac arrest.
- Frequently reassess ABCs

ALS



Transport Decision

- Determine most appropriate destination for continued pt care
- STEMI positive consider STEMI CAPABLE FACILITY

Continuous Pt Care:

- Check blood glucose.
- Place OG tube.
- Provider early hospital notification for post-cardiac arrest.
- Frequently reassess ABCs

Documentation:

During **Norepinephrine** administration, reassessment, and documentation of cardiovascular status (including a blood pressure and pulse) is required at a minimum of every 5 minutes & prior to each titration increase.

Cardiac Care
HYPOTENSIVE/CARDIOGENIC SHOCK
Protocol #C120

EMR/BLS/ALS

EMT

ALS

BP less than 90/mmhg systolic
 Determine patient level of consciousness.
 Establish/confirm airway patency.
 Assess breathing and circulation.
 Obtain pulse oximetry reading.
 Administer supplemental **OXYGEN** per *Oxygen* .
 Obtain vital signs.
 Loosen patient's restrictive clothing.
 Place patient in a position of comfort.
 Ensure EMS transport has been activated. (*if non-transport*)
 Obtain patient history (including DNR/POLST status).
 Reassess patient every 5 minutes.

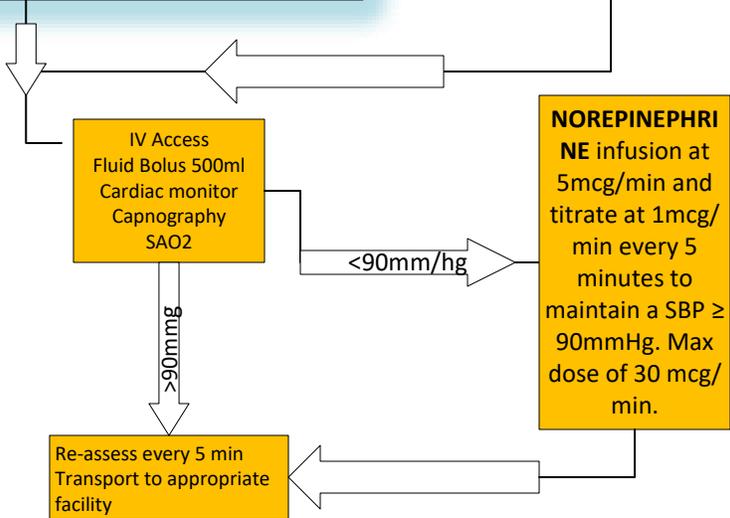
BLS –
 Ensure ALS intercept
 12 lead ekg – transmit to
 med/control

IV Access
 Fluid Bolus 500ml
 Cardiac monitor
 Capnography
 SAO2

**NOREPINEPHRI
 NE** infusion at
 5mcg/min and
 titrate at 1mcg/
 min every 5
 minutes to
 maintain a SBP ≥
 90mmHg. Max
 dose of 30 mcg/
 min.

Re-assess every 5 min
 Transport to appropriate
 facility

- **Push Dose Epinephrine (1:100,000)** (See Mixing Instructions). Administer 5-10mcg (10mcg/1ml) every 1-5 minutes to maintain a SBP ≥ 90mmhg or MAP of 65 for short transports (<10 minutes), while preparing norepinephrine drip, or if SBP is < 90mmhg or MAP < 65 following max titration of norepinephrine.
- During **Push Dose Epinephrine** administration, reassessment, and documentation of cardiovascular status (including a blood pressure and pulse) is required at a minimum of every 5 minutes & prior to each administration
- During **Norepinephrine** administration, reassessment, and documentation of cardiovascular status (including a blood pressure and pulse) is required at a minimum of every 5 minutes & prior to each titration increase



Cardiovascular
Hypertensive Emergency w/signs of end organ failure,
Protocol # C125

EMR/BLS/ALS

BLS

ALS

Systolic BP >220/diastolic>120mm-hg

Determine patient level of consciousness.
 Establish/confirm airway patency.
 Assess breathing and circulation.
 Obtain pulse oximetry reading.
 Administer supplemental **OXYGEN** per *Oxygen* .
 Obtain vital signs.
 Loosen patient's restrictive clothing.
 Place patient in a position of comfort.
 Ensure EMS transport has been activated. (*if non-transport*)
 Obtain patient history (including DNR/POLST status).
 Reassess patient every 5 minutes.

BLS
 Obtain 12lead
 ekg
 Initiate ALS
 intercept

ALS:
 Reassess vitals
 BP > 220/120
 After 3 checks, 5
 minutes apart **AND**
 signs of organ failure

IV Saline Lock
 Cardiac Monitor
 Capnography
**CONTACT MEDICAL
 CONTROL – PHYSICIAN
 ORDERS for
 Labetalol 20mg IV OVER 2
 min**

IV Saline lock
 Cardiac monitor
Transport
 Reassess vitals
 every 10 min.

YES

NO

Signs of Organ Failure

- Headache with extreme dizziness
- altered mental status
- shortness of breath
- chest pain
- decreased urine output
- Vomiting
- changes in vision

Contraindications for labetalol:

- heart failure,
- Dyslipidaemia
- peripheral vascular disease
- asthma or COPD**
- heart blocks

**MEDICAL CONTROL MUST BE CONSULTED with DIRECT PHYSICIANS
 ORDER - NO EXCEPTIONS**

Manual BP MUST be obtained for ALL Pressures

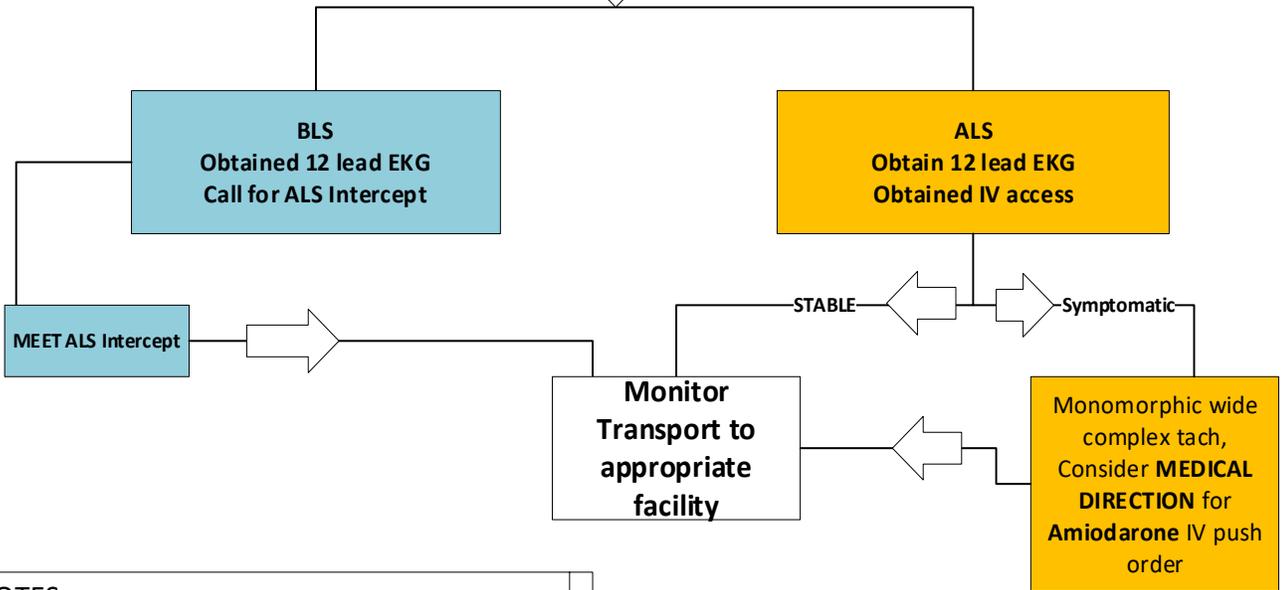
CARDIAC
Wide Complex Tachycardiac – STABLE
Protocol # C130

EMR/EMT/
ALS

EMT

ALS

Determine Level of Consciousness
Establish/Assess ABC's
Obtain Pulse ox reading
Administer supplemental O2 as needed
Obtain Vital Signs
SAMPLE History
Administer baby aspirin 324mg
Loosen restrictive clothing, place in position of comfort
Reassess every 5 minutes



NOTES:

- **STABLE:** Patient is conscious, alert, and oriented per their normal mentation AND hemodynamically stable
- **Symptomatic:** (Shortness of breath, mild to moderate chest pain, dizziness)

Cardiac Care
Wide Complex Tachycardiac – UNSTABLE
Protocol # C135

EMR/BLS/
ALS

BLS

ALS

Determine Level of Consciousness
Establish/Assess ABC's
Obtain Pulse ox reading
Administer supplemental O2 as needed
Obtain Vital Signs
SAMPLE History
Loosen restrictive clothing, place in position of comfort
Reassess every 5 minutes

BLS
 Obtain 12 Lead EKG
Initiate ALS intercept
 If available

ALS
Time for sedation meds

Midazolam 0.05mg/kg
 (Max dose of 5mg)
 IV,IN,IO
If not altered
Ketamine 0.3mg/kg
Do not delay for sedation if critical

Synchronized Cardioversions
 See chart below to a Max of 360J (3 shocks)
CONVERTED?

Monitor and Transport to appropriate facility

Admin Amiodarone bolus
 150mg over 10 min

Amiodarone Drip
 at 1mg/min

Option 2 only if intercept unavailable

Chart 1B

Rhythm	Starting Energy
PSVT/A-Fib	50J
V-Tach w/Pulse	100J
Torsades	200J
<i>Joule Progress – 50-100-200-360J (Biphasic)</i>	

NOTES:
 UNSTABLE: decreased level of consciousness, hypotension, severe chest pain, or severe pulmonary congestion

Midazolam - Potential for retrograde amnesia; consider administration post-synchronized cardioversion if the patient remains hemodynamically stable

Ketamine-a dissociative injected anesthetic (blocks sensory perception)

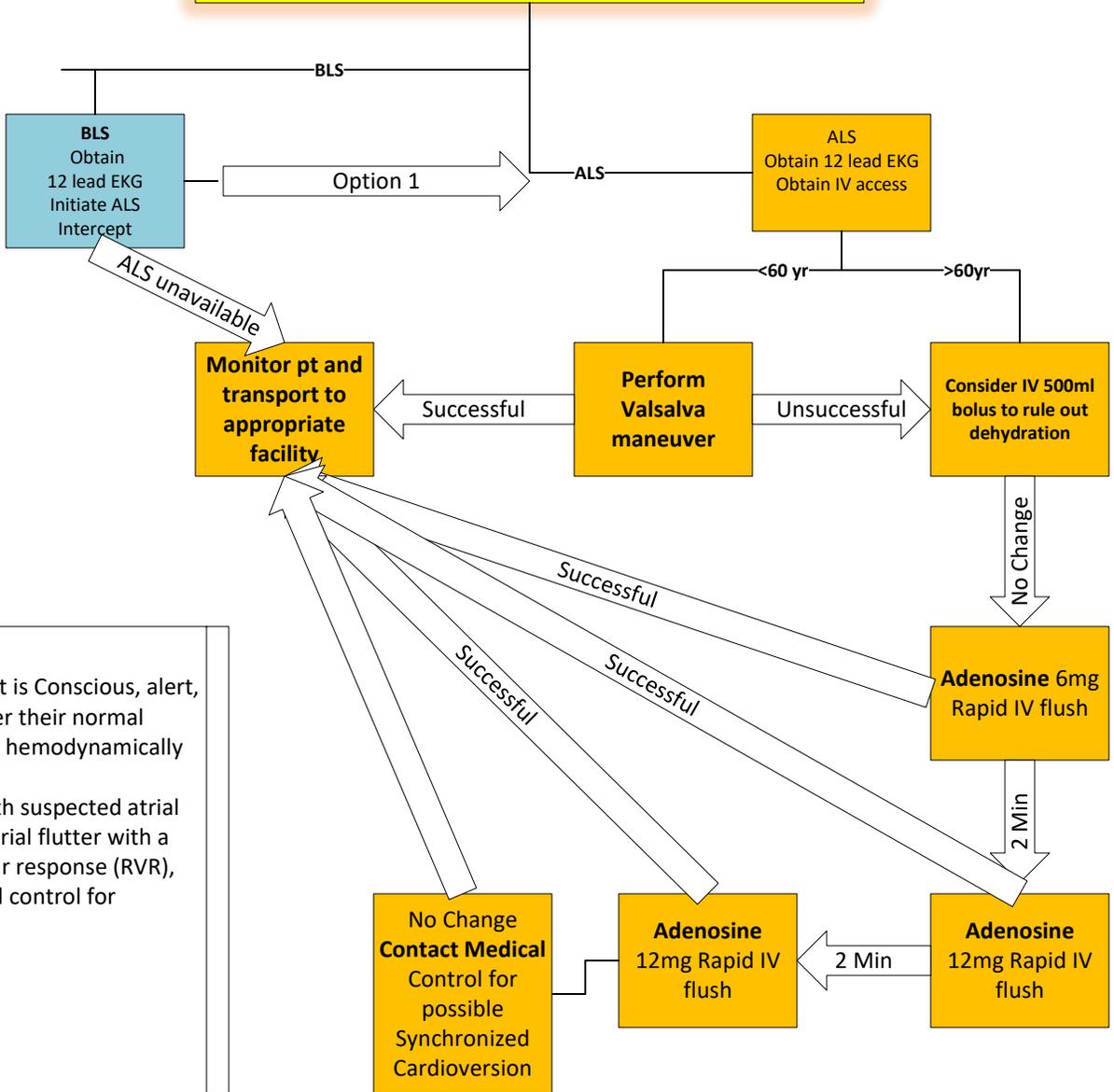
**Cardiac
Narrow Complex Tachycardia – STABLE
(HR >220-patient age)
Protocol # C140**

EMR/BLS/
ALS

BLS

ALS

**Determine Level of Consciousness
Establish/Assess ABC's
Obtain Pulse ox reading
Administer supplemental O2 as needed
Obtain Vital Signs
SAMPLE History
Loosen restrictive clothing, place in position
of comfort
Reassess every 5 minutes**



Notes:

- STABLE: Patient is Conscious, alert, and oriented per their normal mentation AND hemodynamically stable
- For patients with suspected atrial fibrillation or atrial flutter with a rapid ventricular response (RVR), contact medical control for guidance

Cardiac Care
Narrow Complex Tachycardia – UNSTABLE
 (HR >220- patient age)
 Protocol # C145

EMR/BLS/
ALS

BLS

ALS

Determine Level of Consciousness
Establish/Assess ABC's
Obtain Pulse ox reading
Administer supplemental O2 as needed
Obtain Vital Signs
SAMPLE History
Loosen restrictive clothing, place in position of comfort
Reassess every 5 minutes

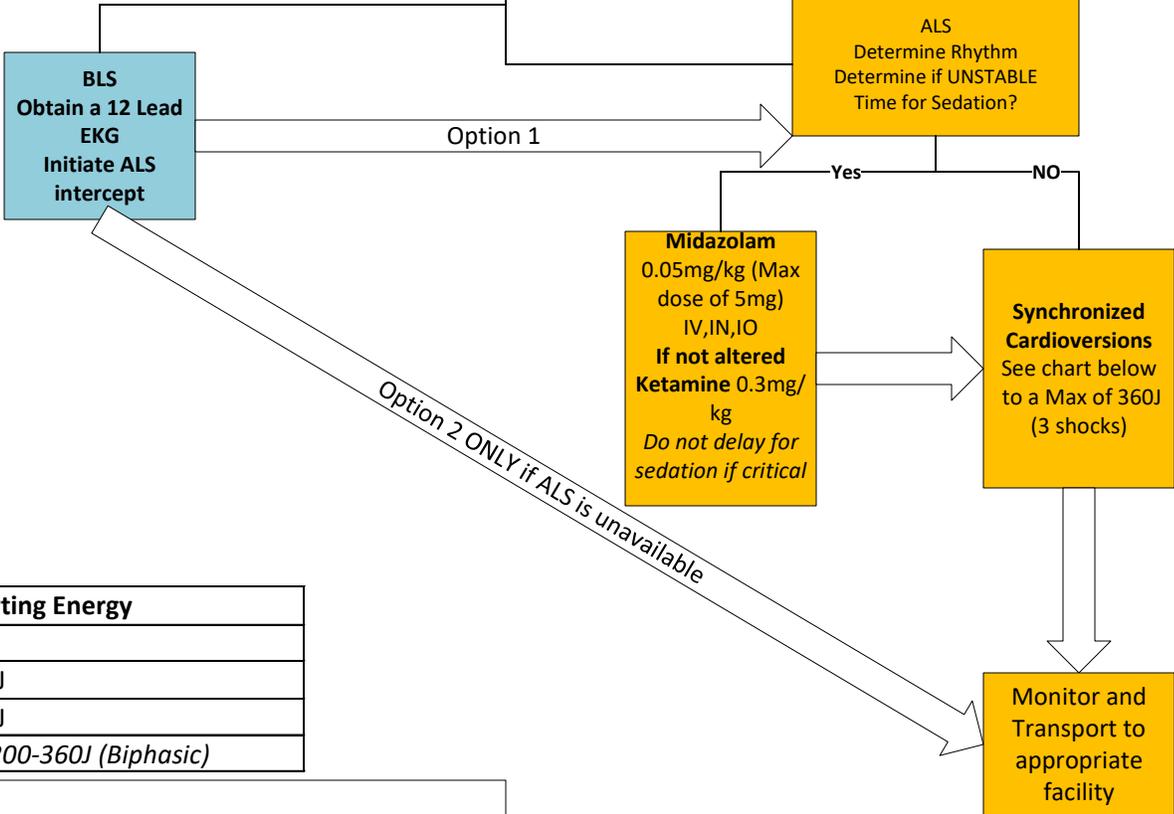


Chart 1B

Rhythm	Starting Energy
PSVT/A-Fib	50J
V-Tach w/Pulse	100J
Torsades	200J
<i>Joule Progress – 50-100-200-360J (Biphasic)</i>	

NOTES:
UNSTABLE: decreased level of consciousness, hypotension, severe chest pain, or severe pulmonary congestion

Midazolam - Potential for retrograde amnesia; consider administration post-synchronized cardioversion if the patient remains hemodynamically stable

Ketamine-a **dissociative** injected anesthetic (blocks sensory perception)

**Cardiac Care Bradycardia -
Stable (HR<60)
Protocol # C150**

EMR/BLS/
ALS

BLS

ALS

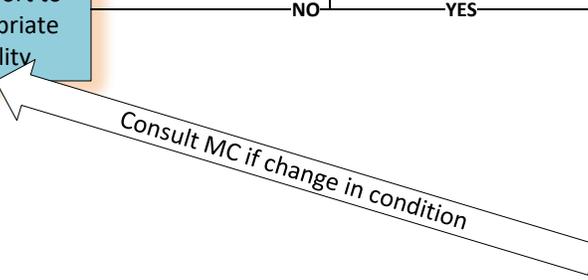
Determine Level of Consciousness
Establish/Assess ABC's
Obtain Pulse ox reading
Administer supplemental O2 as needed
Obtain Vital Signs
SAMPLE History
Loosen restrictive clothing, place in position of comfort
Reassess every 5 minutes

BLS/ALS
Obtain 12 lead EKG
Determine if symptomatic bradycardia

Monitor Pt
Transport to appropriate facility

BLS
 Initiate ALS intercept

ALS
 Obtain IV
 Fluid bolus 500ml



NOTES:

- **STABLE:** Patient is Conscious, alert, and oriented per their normal mentation AND hemodynamically stable.
- Bradycardia may be a normal finding.
- **Symptomatic-** Dizziness or lightheadedness
Fainting or near-fainting episodes, Confusion or memory problems, Shortness of breath ,Chest pain (in some cases)

Cardiac Care Bradycardia-Symptomatic
(Sinus Bradycardia, 1st Degree Block, 2nd Degree Type 1 Block)
Protocol # C155

EMR/BLS/
ALS

BLS

ALS

Determine Level of Consciousness
Establish/Assess ABC's
Obtain Pulse ox reading
Administer supplemental O2 as needed
Obtain Vital Signs
SAMPLE History
Loosen restrictive clothing, place in position of comfort
Reassess every 5 minutes

BLS
Obtain 12 lead EKG
Determine if symptomatic bradycardia
(BLS Initiates ALS Intercept)

Obtain IV Access Fluid bolus if necessary
 Transport to appropriate facility

ALS on board
Determine STABLE/ UNSTABLE Bradycardia

Obtain Vascular Access
 Atropine 1mg IV/IO
 If STEMI indicated, withhold Atropine and contact Med Control

Contact Med Control, Transport to Appropriate facility

No response 3-5 min
Atropine 1mg IV,IO
 Can repeat after 3-5 minutes up to **MAX dose of 3mg total**

Heart rate increase?

Re-assess Pt Monitor and transport to appropriate facility

No response after 2 does of Atropine,
Begin Transcutaneous Pacing
 Sedate with **Midazolam 0.05mg/kg(max of 5mg) IV/IO over two min**

Does pt improve?

Medication Considerations

- Atropine:**
- Do not administer if a CVA/ neurological injury is suspected
- Midazolam:**
- Potential for retrograde amnesia; consider administration post synchronized Cardioversion if the pt is hemodynamically stable.
- Ketamine:**
- A dissociative injected anesthetic (blocks sensory perception)
- Lactated Ringers:**
- Consider 250ml bolus if pt remains hypotensive
 - If pt remains hypotensive following bolus, refer to **Protocol # C120**

Notes:

- "Improvement" is defined as an increase in heart rate with a corresponding increase in mentation and hemodynamic stability (blood pressure).
- UNSTABLE:** decreased level of consciousness, hypotension, severe chest pain, or severe pulmonary congestion.

**Cardiac Care-Bradycardia-symptomatic
(2nd Degree Block , 3rd Degree Block)
Protocol # C160**

EMR/BLS/ALS

BLS

ALS

**Determine Level of Consciousness
Establish/Assess ABC's
Obtain Pulse ox reading
Administer supplemental O2 as needed
Obtain Vital Signs
SAMPLE History
Loosen restrictive clothing, place in
position of comfort
Reassess every 5 minutes**

**BLS
Obtain 12 lead EKG
Determine if symptomatic
bradycardia
(BLS Initiates ALS Intercept)**

● IV Access
● Fluid bolus if necessary
● Transport to appropriate facility

ALS On Board
● Determine if Symptomatic Bradycardia

● Consider Vascular Access if time
● Begin Transcutaneous Pacing
● Sedate with Midazolam 0.05mg/kg(max of 5mg) IV/IO over two min if time
● If patient does not have an altered mental status, pre-sedation of **KETAMINE** 0.3 mg/Kg IV for pain control/anxiolysis

Contact Medical Control for further orders

Look for signs of improvement

Transport to closest appropriate facility

Medication Considerations

Midazolam:

- Potential for retrograde amnesia; consider administration post synchronized cardioversion if the pt is hemodynamically stable

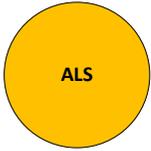
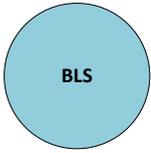
Ketamine:

- A dissociative injected anesthetic (blocks sensory perception)

Notes:

- "Improvement" is defined as an increase in heart rate with a corresponding increase in mentation and hemodynamic stability (blood pressure).
- **Symptomatic:** decreased level of consciousness, hypotension, severe chest pain, or severe pulmonary congestion.

Respiratory Care Acute Pulmonary Edema/CHF Protocol # R200



**ALL Level Routine
Medical Care
Protocol #M300**

BLS/ALS
Obtain 12 Lead and
transmit to MD
Apply Capnography

BLS
Initiate ALS Intercept
Systolic pressure > 120mmhg
Nitroglycerin tab 0.4mg SL
Systolic pressure between
100-120mmhg – Nitro Paste
1" on chest wall or back

BLS
Systolic
>100mmhg

BLS
Apply CPAP at
5-10cm H2O
pressure

Notes:

If pt is having anxiety due to the BiPAP/CPAP, consider Midazolam 1mg IV or 2mg IN. (1mg each Nare)

Monitor Respiratory adequacy- if deteriorating manually assist ventilations via BVM as needed

Nitro Drips MUST use special tubing and IV PUMP

If use of Nitro Drip- 2nd line MUST obtained

If pressures drop below 100mmhg systolic discontinue Nitro

ALS
Systolic pressure > 120mmhg Nitroglycerin tab 0.4mg SL
Systolic pressure between 100-120mmhg – Nitro Paste 1" on chest wall or back
Consider Nitro Infusion 5mcg/min if available
Increasing rate by 10mcg up to a max of 50mcg/min
Contact Med Control for additional doses

Bipap/Cpap -Medic Discretion
Cpap – 10cmH2o
BiPap – 10cm h2o/5cm h2o
Maintain Systolic BP >100mmhg

BLS
Contact Medical Control for Direction

BLS
Pt breathing improving

Meet ALS if available

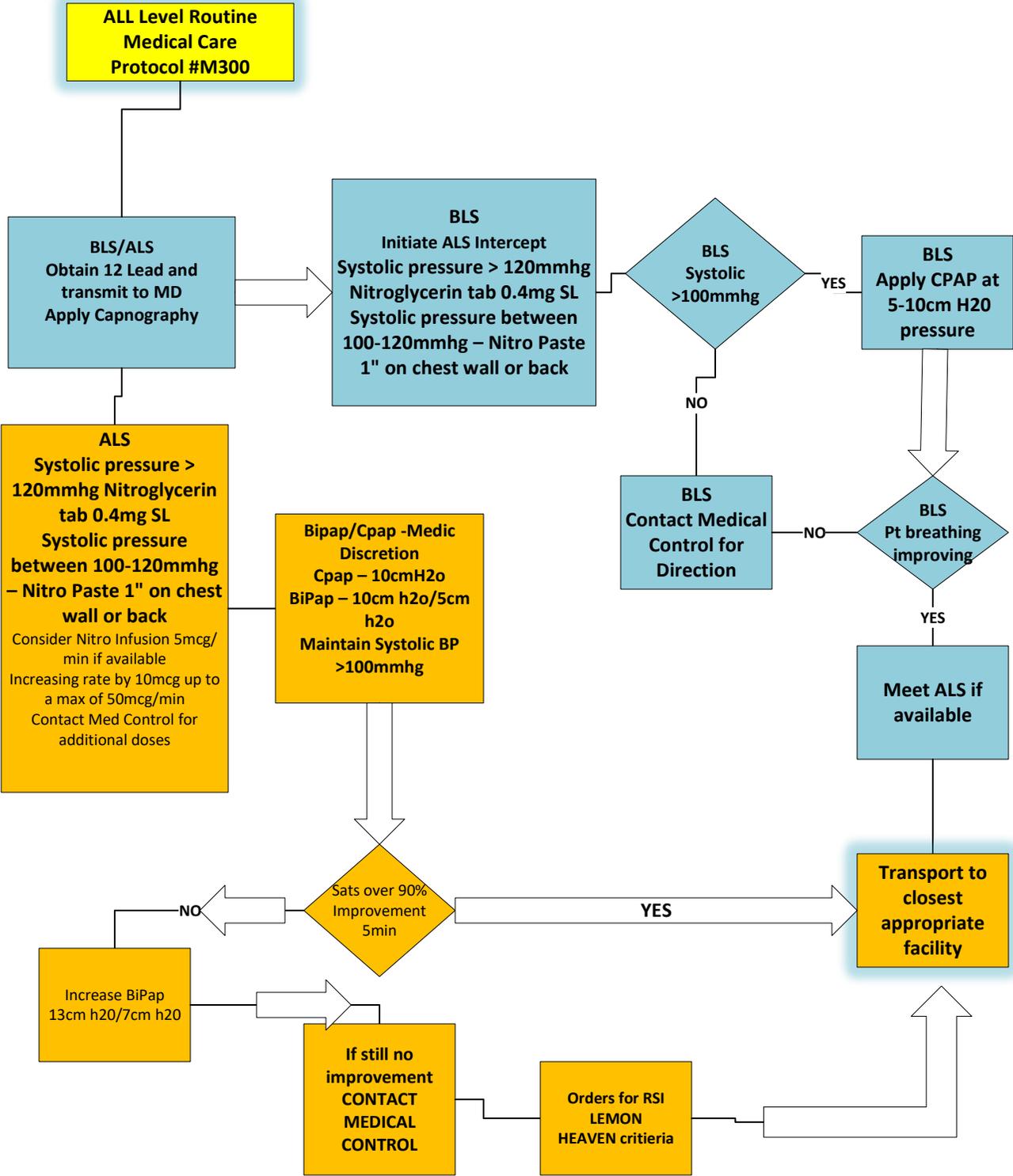
Sats over 90%
Improvement
5min

Transport to closest appropriate facility

Increase BiPap
13cm h2o/7cm h2o

If still no improvement
CONTACT MEDICAL CONTROL

Orders for RSI
LEMON
HEAVEN criteria



Respiratory Care Asthma/COPD Protocol # R210

EMR/BLS/ALS

BLS

ALS

EMR
Routine Medical Care

MILD
Exacerbation

Moderate
Exacerbation

SEVERE
Exacerbation

BLS/ALS
Routine Medical Care
12 lead EKG
Capnography Waveform

BLS/ALS
Routine Medical Care
12 lead EKG
Capnography Waveform

BLS/ALS
Routine Medical Care
12 lead EKG
Capnography Waveform

BLS/ALS
Albuterol/Ipratropium
(DouNeb) 3mg/3ml
Improvement

BLS
Repeat DuoNeb
as needed up to
3x
Initiate ALS
Intercept

BLS
ALS Intercept

ALS
Capnography
Systolic BP >100
BiPAP 10/5 or
CPAP with
DuoNEB

BLS Initiate ALS
Intercept

ALS
Epi 1:1000 0.3mg IM
IV/IO
Methylprednisone
125mg iv

ALS
Obtain IV
Methylprednisolone
125mg
Improvement

ALS
Obtain IV
Determine fluid needs
Methylprednisolone
125mg
No Relief

BLS
CPAP at 5-10 cm
h2o with
Duoneb

Obtain IV
Fluids as needed
Methylpredniso
lone 125mg
Relief @ 7 min

BLS Contact Medical
Control for orders
for Epi 1:1000
0.3mg IM

Assess Pt
Monitor capno/
pulse ox
Transport to
appropriate
facility

BLS
If Systolic BP
>100mmhg
CPAP 5-10 cm h2o
with Neb if needed

Med Control
to be
contacted
prior to Mag
if Hx of Renal
Disease

Obtain IV
Fluids as needed
Methylpredniso
lone 125mg

Obtain IV
Fluids as needed
Methylpredniso
lone 125mg

BLS/ALS
DuoNeb 3mg/3ml
Provide BVM
support if needed
with inline Neb

Assess Pt
Monitor capno/
pulse ox
Transport to
appropriate
facility

ALS
If systolic >100mmhg
BiPAP 10/5 or CPAP
with neb

Administer Mag
Sulfate 2g/250ml
NS
60gtt tubing wide
for 10-15min

Assess Pt
Monitor capno/
pulse ox
Transport to
appropriate
facility

Assess Pt
Monitor capno/
pulse ox
Transport to
appropriate
facility

Administer Mag
Sulfate 2g/250ml
NS
60gtt tubing wide
for 10-15min

Contact Med
control if BP
<100mmhg

BLS/ALS
Transport to closest
appropriate facility

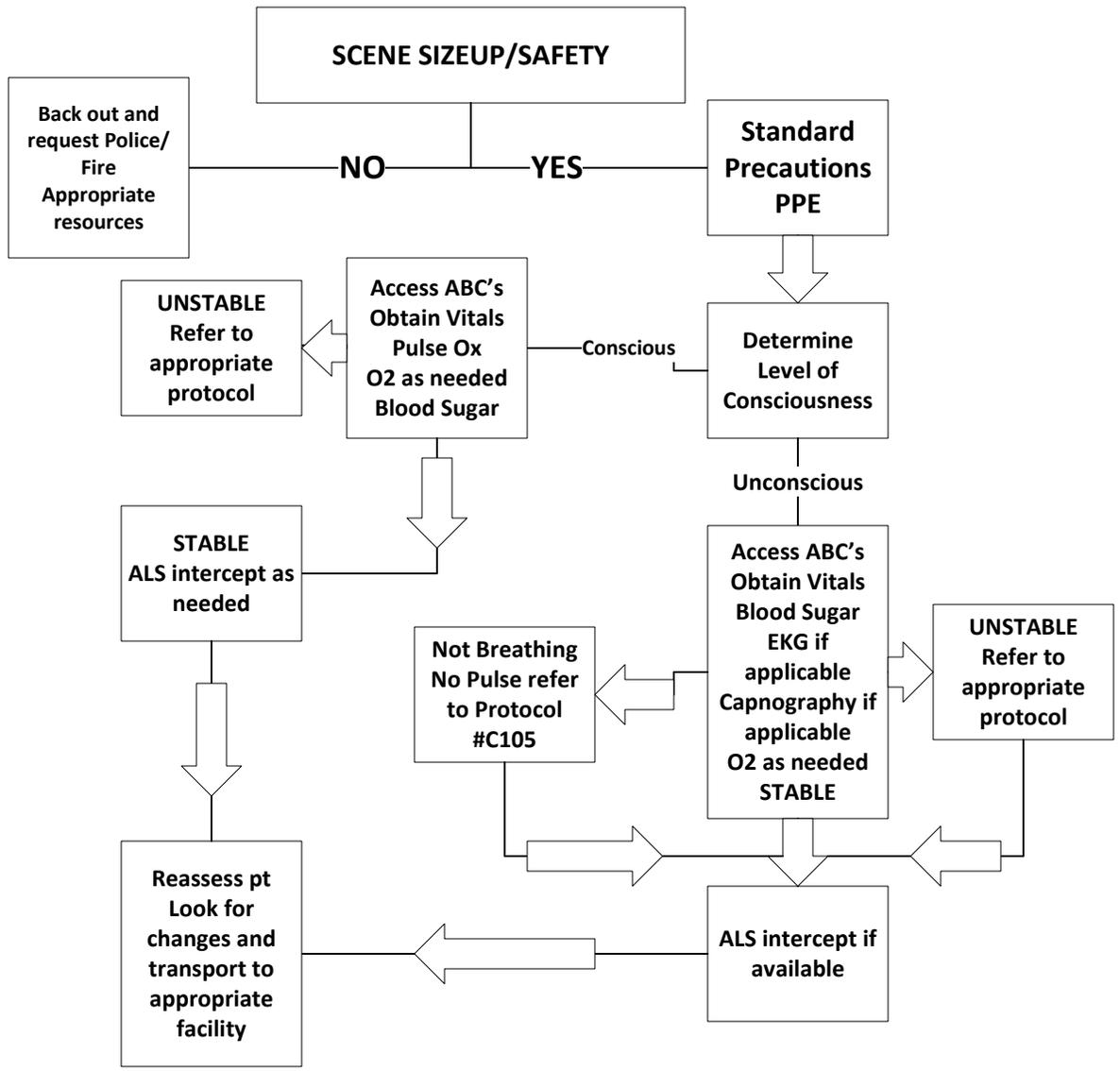
ALS
Contact Med control
for RSI orders
LEMON/HEAVEN
Criteria

NOTES:

- If patient requires BVM assist, use in-line nebulizer.
- If patient is allergic to Ipratropium, give only Albuterol treatment.
- **MAGNESIUM SULFATE**, 2 grams in 250 mL **Normal Saline** bag and infuse over 10-15 minutes (60 gtt tubing at wide open). Contact **MEDICAL CONTROL** prior to administration if patient has a history of renal disease.
- Consider Midazolam 1mgIV or 2mg IN prior to BiPAP/CPAP for anxiety

Routine Medical Care Protocol # M300

ALL LEVELS



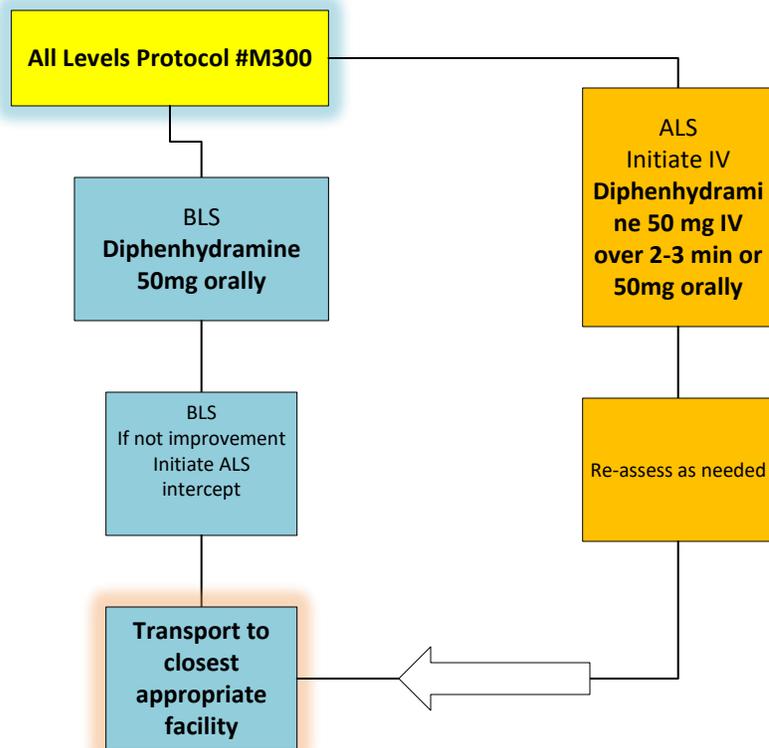
- Notes:**
- ALS Obtain IV as needed
 - Obtain SAMPLE History
 - BLS/ALS Obtain 12 lead as needed
 - Loosen restrictive clothing,
 - Place in position of comfort
 - Ensure transport dispatched
 - Obtain History, (including DNR, POLST)

Medical Care Allergic Reaction Protocol # M315

EMR/BLS/ALS

BLS

ALS



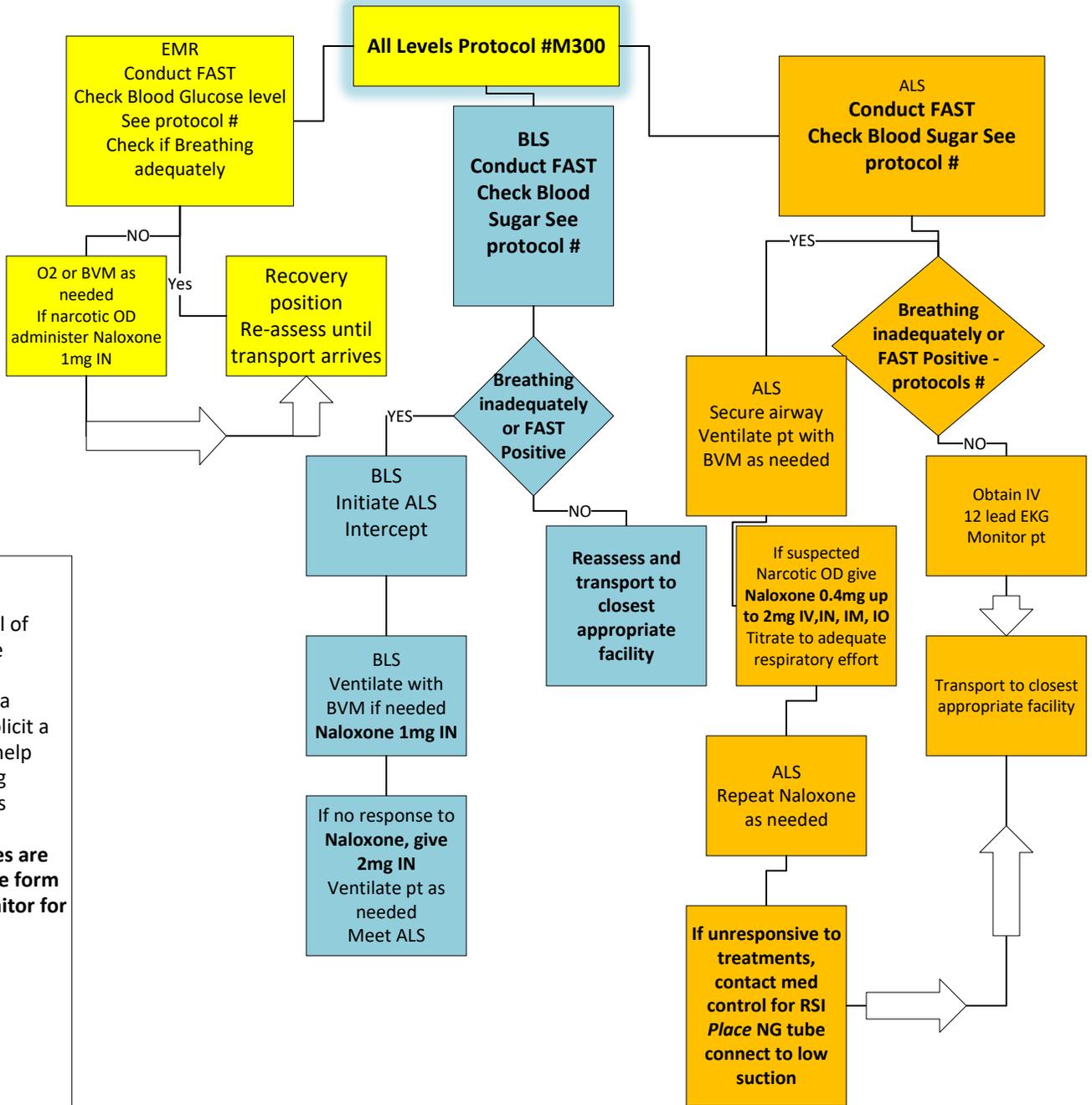
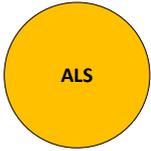
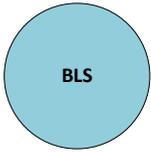
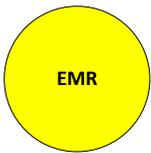
NOTES:

- Onset: Gradual, symptoms over time
- Severity: Mild to moderate
- Symptoms: localized to one area (Skin/Resp/Gastrointestinal)
 - Skin manifestations: rash, hives, itching
 - Respiratory symptoms: sneezing, nasal congestion, asthma symptoms
 - GI symptoms: abdominal pain, vomiting, diarrhea
 - Cardiovascular symptoms: none

Medical Care

Unconscious/Altered LEVEL OF Consciousness/Syncope

Protocol # M320



NOTES:

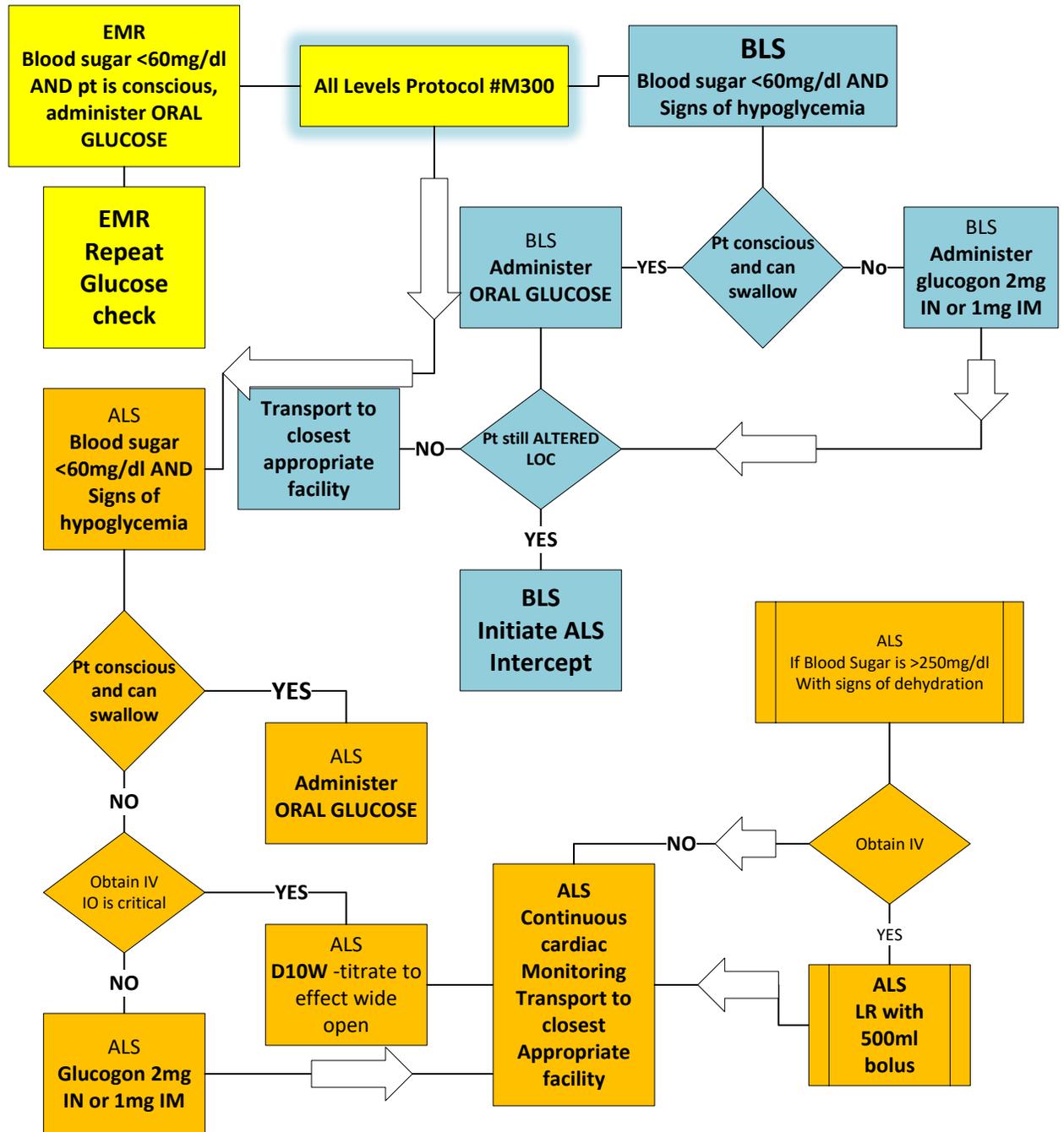
- Altered level of consciousness can be caused by numerous conditions. Perform a physical exam and solicit a complete history to help determine underlying cause. Treat cause as appropriate.
- If capabilities are available, apply wave form capnography to monitor for respiratory drive

Medical Care Diabetic Emergency Protocol #M325

EMR

BLS

ALS



Notes:

- Providers should also reference *Altered Level of Consciousness Protocol. #M320*
- IO can be utilized in a diabetic emergency only after BOTH of the following have been met: at least 2 unsuccessful IV attempts AND glucagon has been administered with no improvement after 15 minutes
- Note that you may use a 500ml bag of D10W, however, do not exceed 250ml infusion without reassessing blood glucose. May repeat additional 250ml infusion of D10W once if blood sugar remains under 60mg/dl.

**Medical Care
STROKE/CVA/TIA
Protocol #M330**

EMR

BLS

ALS

All Levels Protocol #M300

**BLS
Protocol #M300**

**EMR/BLS
Perform FAST
Exam**

**BLS
Initiate ALS
Intercept**

**BLS
Notify
Hospital of
positive
FAST**

**BLS
Do not
delay
transport**

**Transport to
closest
appropriate
ready facility**

**ALS
Perform BEFAST
VAN Exam**

**ALS
Protocol #M300**

**ALS
Establish IV
IO if critical
Draw blood
tubes**

**ALS
Continuous
Cardiac
Monitoring/12
lead
Obtain 2nd IV**

Notes:
Providers should also reference the *Altered LOC Protocol #M320*

Patient transport shall be initiated as soon as possible once the provider suspects the patient is having a CVA.

Do not treat bradycardia with pacing/atropine if CVA is suspected.

Leave initial BEFAST, FAST/VAN stroke worksheet at receiving facility, copy should be uploaded to ESO.

Patients shall be transported to a stroke center. See Patient Destination policy.

FAST SCREEN

- F – Facial Droop
- A – ARMS (Drift, Weakness)
- S – Speech Slurred
- T – Time since last seen normal

VAN SCREEN

- V- Visual Disturbance (Visual changes)
- A – Aphasia (Unable to speak, not understand commands)
- N – Neglect (Forced gaze, inability to track one side, unable to feel both sides at same time)

Medical Care SEIZURES Protocol #M335

EMR

BLS

ALS

All Levels Protocol #M300

**BLS
Initiate ALS
Intercept**

**ALS
Establish IV
Access**

**ALS
Administer
MIDAZOLAM 5mg
IV/IO if needed**

IV Obtained

**ALS
Administer
MIDAZOLAM
4mg IN or
5mgIM**

**Seizure activity
continues**

**ALS
Repeat dosing of
MIDAZOLAM**

**O2
Cardiac monitoring**

**Seizure activity
continues**

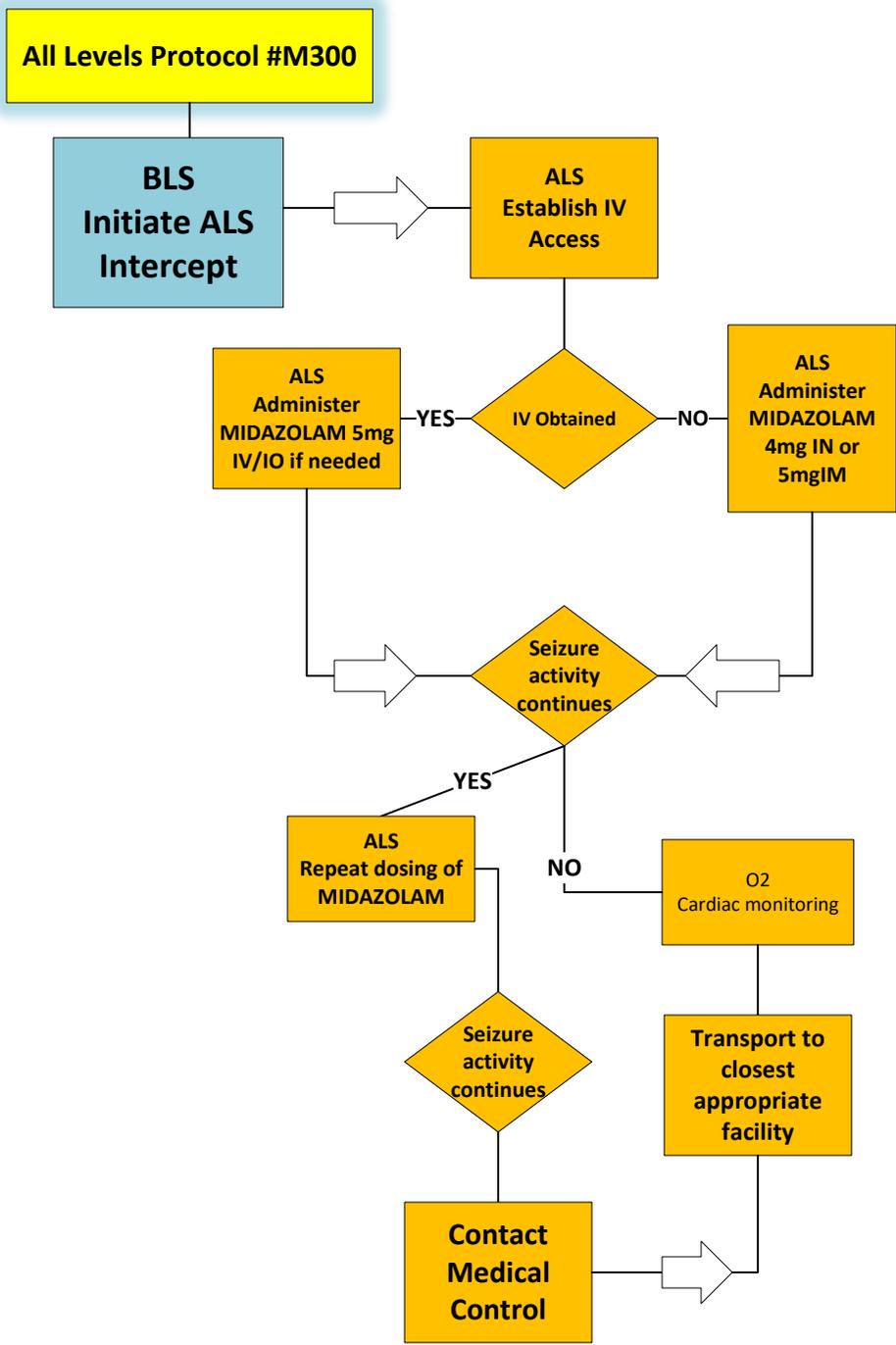
**Transport to
closest
appropriate
facility**

**Contact
Medical
Control**

Notes:

- Do not force anything between the teeth.
- Create safe surroundings for the patient (ensure patient's limbs and head do not strike other objects, remove moveable objects from around the patient, etc.). **DO NOT RESTRAIN PATIENT.**

ALS: If definitive airway management is necessary and the patient has clenched teeth, consider RSI intubation protocol.



**Medical Care
Suspected Poisoning -ORGANOPHOSPHATE
Protocol #M340**

EMR

BLS

ALS

All Levels Protocol #M300

**BLS/ALS
Pts should be
decontaminated prior to
transport**

**ALS
Obtain 2 Large
bore IV's
LR**

**Initiate ALS
Intercept if
available
Transport**

BP <90mmhg

**ALS
500ml boluses
to maintain BP
of 90mmhg**

**Transport to
closest
appropriate
facility**

**ALS
Atropine 2mg
IV/IO
Every 3-5 min to
maintain pulse
of ≥ 70 and BP of
>90mg**

Notes:

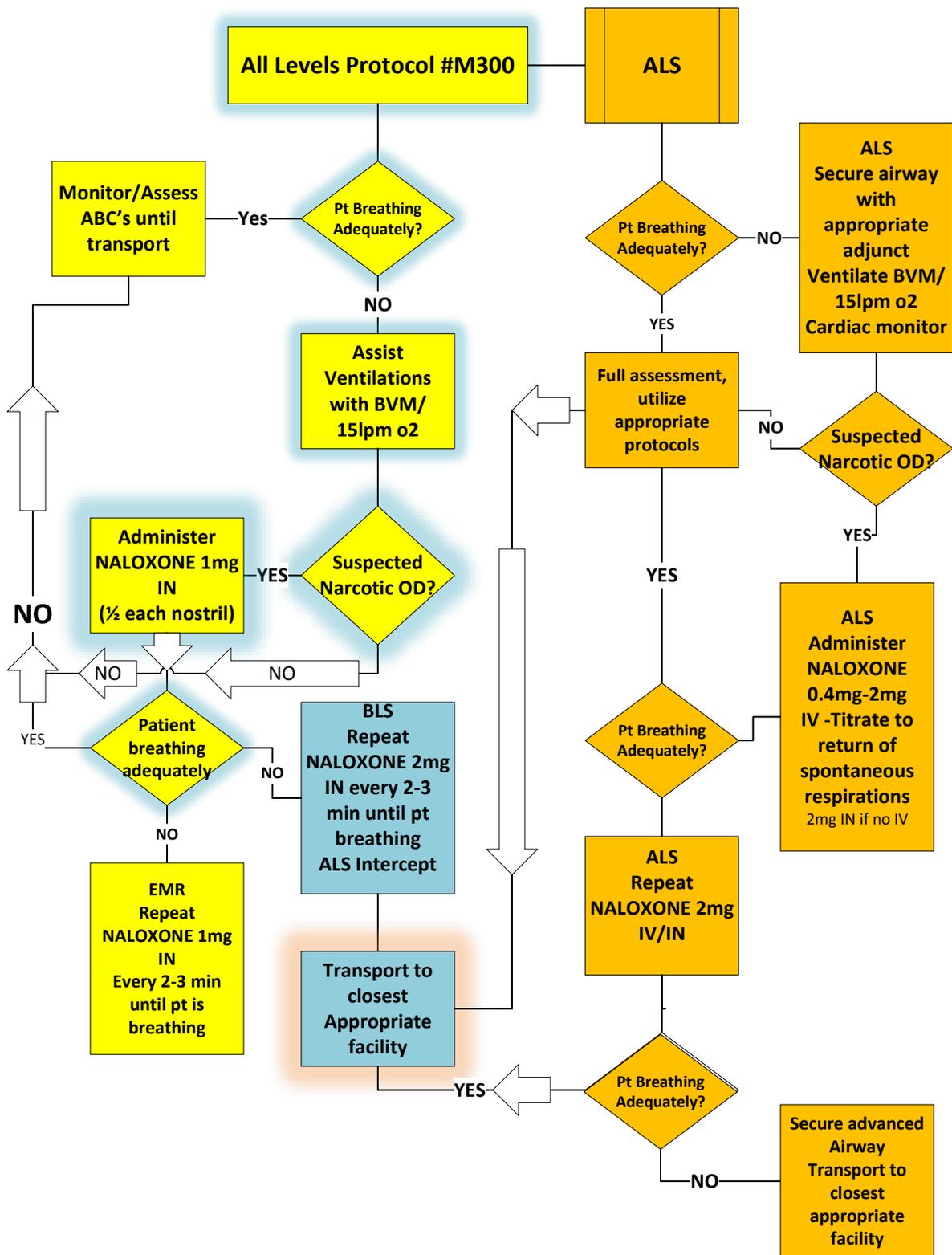
- Common organophosphates: insecticides (malathion, parathion, diazinon, ethion, etc.), herbicides (tribufos, merphos, etc.), nerve gases (sarin, soman, VX, etc.)
- Signs and symptoms of organophosphate poisoning can be remembered with the acronym SLUDGE: Salivation, Lacrimation, Urination, Defecation, Gastrointestinal upset, and Emesis.
- **ENSURE APPROPRIATE DECONTAMINATION. Do not transport patients prior to decontamination, as an enclosed environment with a contaminated patient can be extremely dangerous to providers. NOTIFY THE RECEIVING FACILITY AS SOON AS POSSIBLE FOR ACTIVATION OF THEIR DECONTAMINATION TEAM. DO NOT ENTER THE FACILITY UNLESS SPECIFICALLY ORDERED TO DO SO.**
- Consider calling for additional advanced units (for additional atropine) if prolonged patient contact time is anticipated.

Medical Care Suspected Narcotic Drug Overdose Protocol #M345

EMR

BLS

ALS

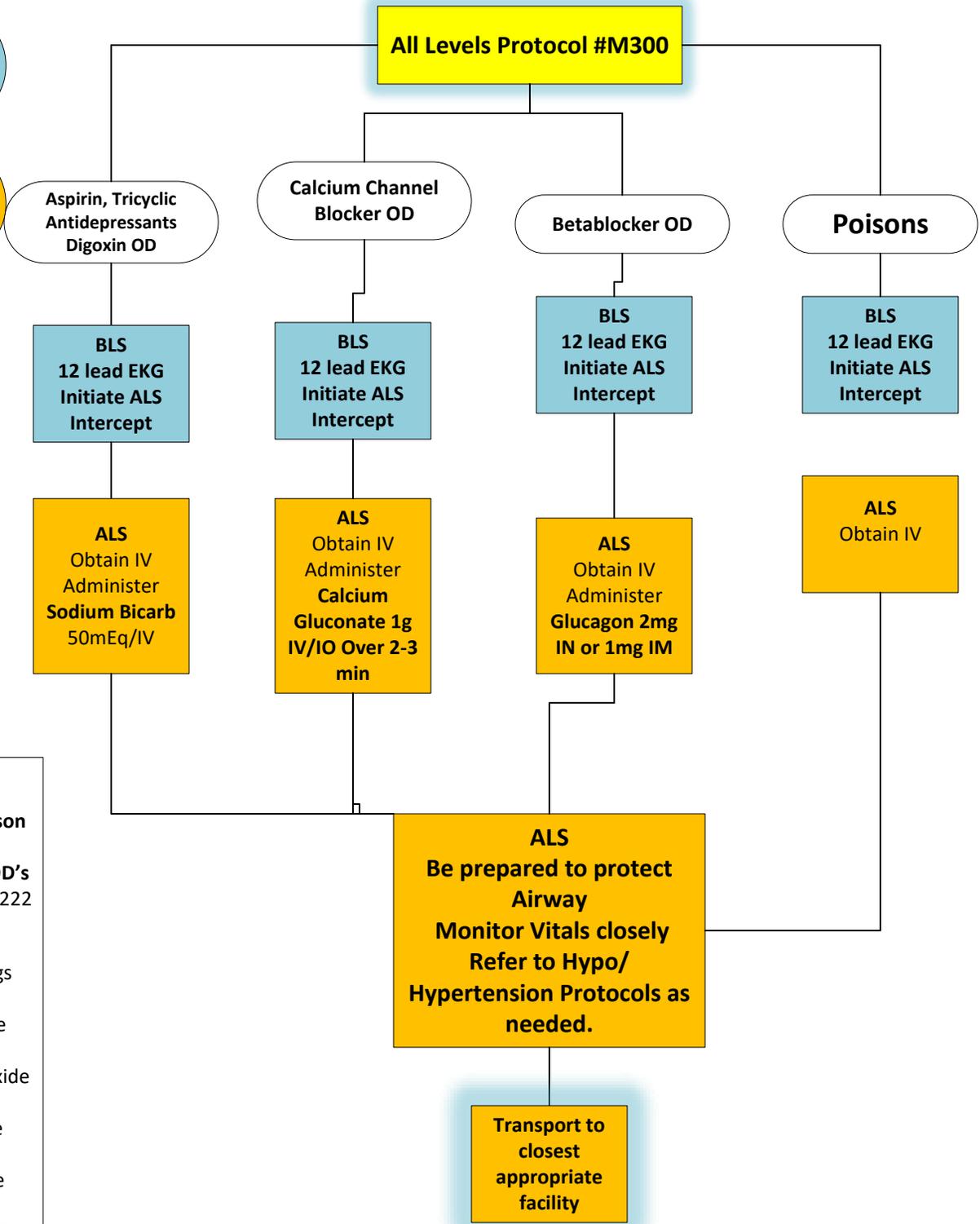


Medical Care Medication Overdose or Poisoning Protocol #M350

EMR

BLS

ALS



Notes:

Contact poison Control for suspected OD's 1-800-222-1222

•Common tricyclic drugs include:
Amitriptyline (Elavil),
Imipraminoxide (Imiprex),
Lofepamine (Lomont),
Nortriptyline (Pamelor).

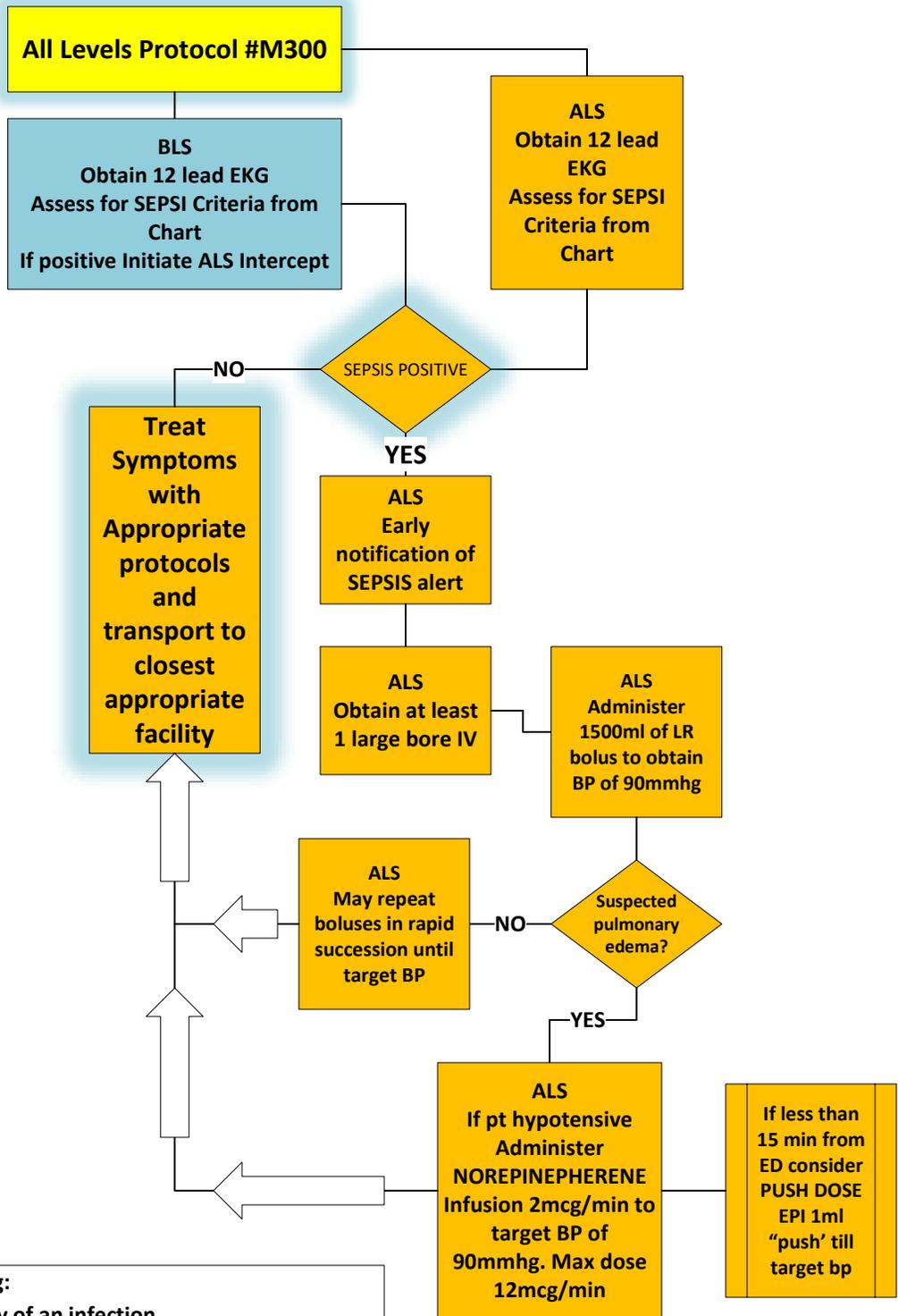
- Consider prophylactic use of antiemetic (see Nausea and Vomiting Protocol)
- If stimulant overdose is suspected, monitor for hyperthermia, and treat per protocol.
- If Cyanide exposure is suspected, administer Oxygen at 15 LPM via non-rebreather.
- If Carbon Monoxide Poisoning is suspected, initiate C-Pap with peep of 5 cm H2O and place on cardiac monitor.
- Consult Medical and Poison Control if suspected Biological exposure is present.

Medical Care SEPSIS Protocol # M355

EMR

BLS

ALS

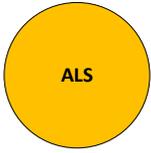
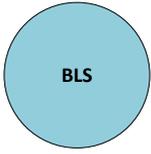
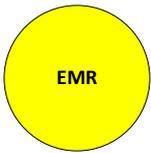


- Notes:**
- Once SBP >90mmHg, titrate lactated ringers rate to approximately 17 ml/min (1L/hr). Note time lactated ringers drip initiated.
 - Establish 2nd large bore IV if time allows.
 - If the temperature is $\geq 104.0^{\circ}$ F, place a cold pack in each armpit as well as the posterior neck. Remove the cold packs if shivering begins.

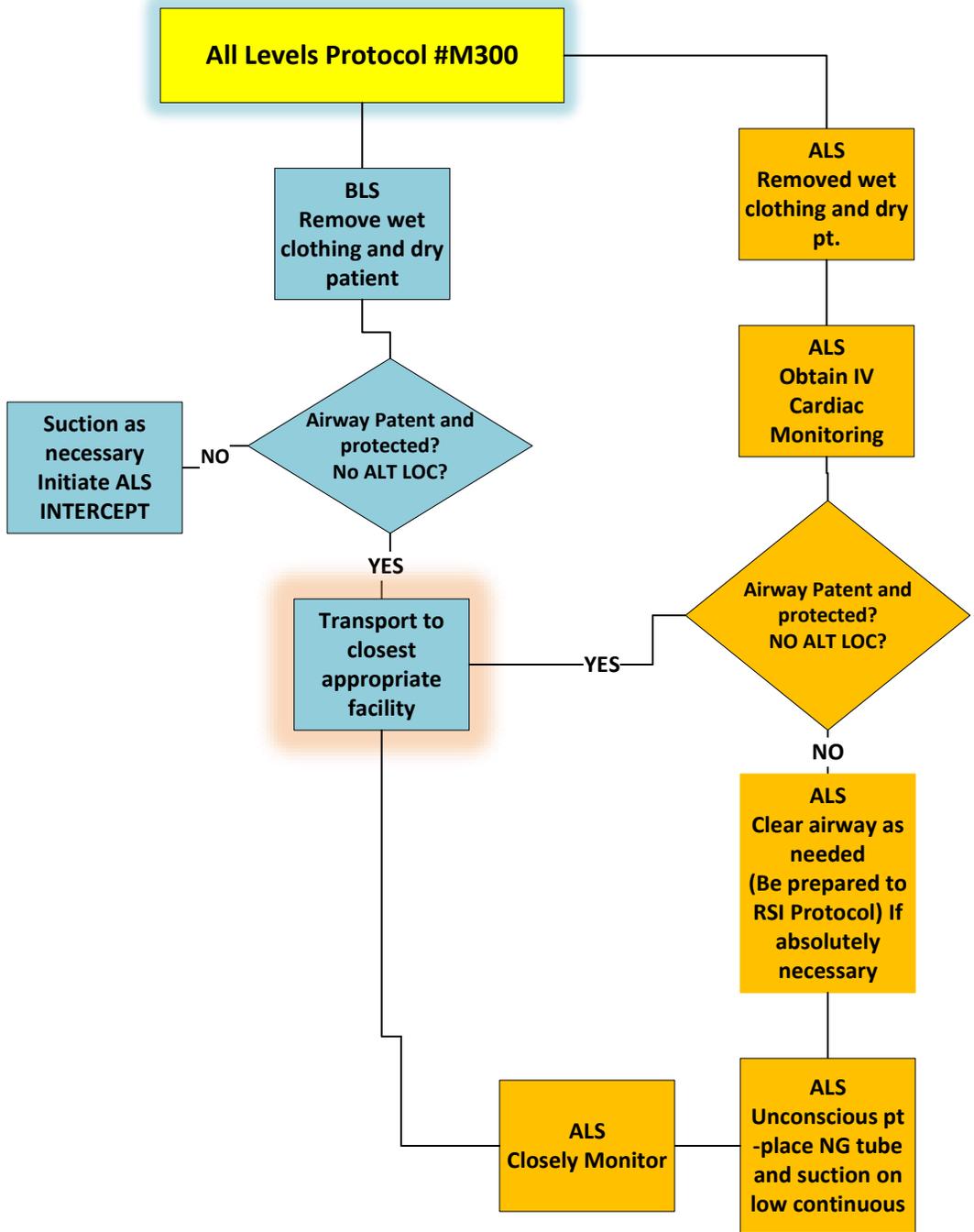
A Sepsis Alert should be called for the following:

- Miami Sepsis Score 3-4 with signs or history of an infection
- End tidal CO₂ readings <25 mmHg are/can be correlated with increase lactic acid.**

Miami Sepsis Score	
1	Body temp $\geq 38^{\circ}$ (100.4 ^f) or $\leq 35.5^{\circ}$ (96.0 ^f)
1	Respiratory rate ≥ 22 /minute
2	Shock Index ≥ 0.7 (Heart rate/Systolic BP)
	Composite Score



**Medical Care
Environmental – Near Drowning
Protocol # M360**



**Medical Care
Environmental- Radiation Exposure
Protocol # M365**

EMR

BLS

ALS

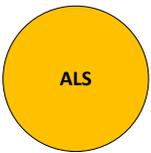
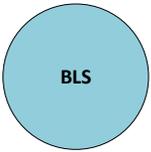
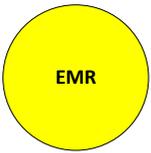
All Levels Protocol #M300

**BLS/ALS
Notify receiving
facility ASAP
(Do NOT ENTER
Facility without
their
permission)**

**ALS
Do NOT
start IV
unless
absolutely
necessary**

**Transport to
closest
appropriate
facility**

Medical Care Environmental – Hypothermia Protocol #M370



All Levels Protocol #M300

EMR/BLS
Protect from Heat loss
Handle very gently
Remove from cold environment

EMR/BLS
Admin Warm O2
Place heat paks on central pulse points (axillary, femoral)

BLS
Initiate ALS Intercept

ALS
All EMR/BLS Care
Cardiac Monitor
Obtain IV

ALS
Administer WARM LR
500ml bolus

Notes:

Mild Hypothermia:

- Body Temperature: 95°F to 89.6°F (35°C to 32°C)
- Symptoms: Shivering, pale or cool skin, numbness in extremities, sluggish responses, drowsiness, or lethargic
- Other: Increased heart rate and breathing

Moderate Hypothermia:

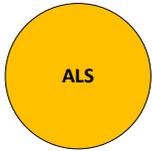
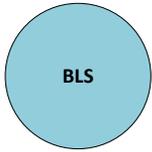
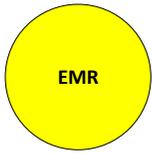
- Body Temperature: 89.6°F to 82.4°F (32°C to 28°C)
- Symptoms: Shivering stops, fading in and out of consciousness, urinating more, slow heart rate and breathing, blood pressure drops

Severe Hypothermia:

- Body Temperature: Below 82.4°F (28°C)
- Symptoms: Full loss of consciousness and responsiveness, body fully cold to the touch with stiff muscles, slow, irregular and faint heartbeat and breathing

Profound Hypothermia (Apparent Death):

- Body Temperature: Below 68°F (20°C)
- Symptoms: Unconscious, potential for cardiac arrest, and severe bradycardia



**Medical Care
Environmental– Frost Bite
Protocol #M375**

All Levels Protocol #M300

**EMR/BLS/ALS
Remove clothing from affected
area (Do NOT forcefully
remove clothing that sticks)**

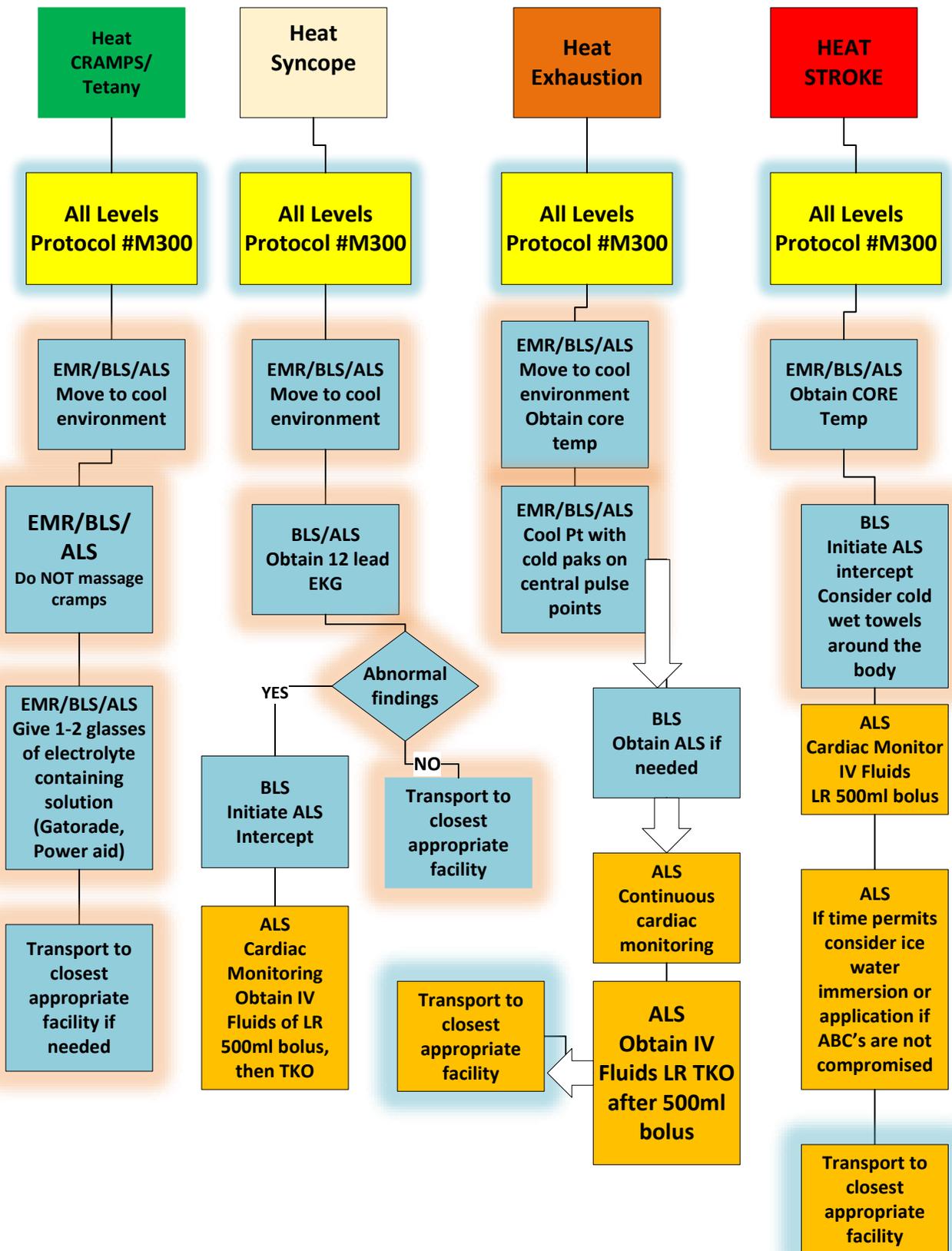
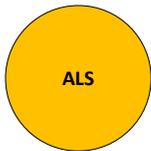
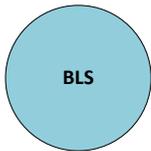
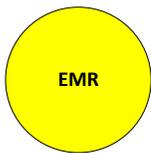
**EMR/BLS/ALS
Cover affected area with
dry sterile dressing and
splint**

**EMR/BLS/
ALS
Protect from
re-freezing**

**ALS
Consider
initiating
Pain
Protocol #
P500**

**Transport to
closest
appropriate
facility**

**Medical Care
Environmental – Heat Related Emergencies
Protocol #M380**

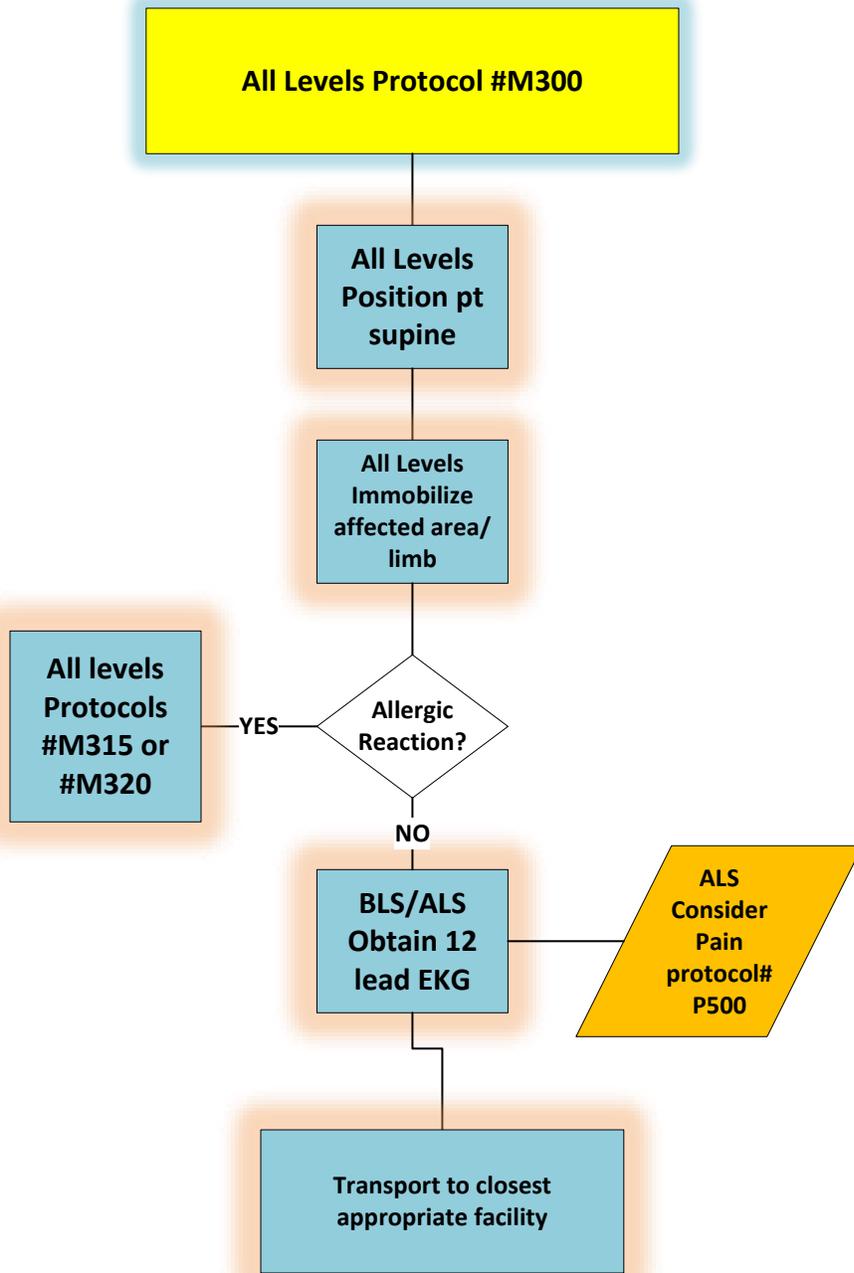


Medical Care
Environmental – Bites and Envenomation's
Protocol # M390

EMR

BLS

ALS



Notes:

- Do NOT attempt to suction the poison from the injection site.

Trauma Care

ROUTINE TRAUMA CARE

Protocol # T400

FR/EMR
1. Perform scene survey (assess for hazards, number of patients, mechanism of injury, special extrication needs, etc.).
2. Consider spinal precautions if mechanism warrants (refer to <i>Spinal Immobilization Procedure</i>).
3. Assess level of consciousness.
4. Establish/confirm airway patency.
5. Assess breathing and circulation.
6. Obtain pulse oximetry reading.
7. Administer supplemental OXYGEN per <i>Oxygen Administration Procedure</i> .
8. Identify and treat life threatening conditions.
9. Perform rapid trauma assessment.
10. Continually reassess patient until transport service arrives.

BLS
1. Perform scene survey (assess for hazards, number of patients, mechanism of injury, special extrication needs, etc.).
2. Consider spinal precautions if mechanism warrants (refer to <i>Spinal Immobilization Procedure</i>).
3. Assess level of consciousness.
4. Establish/confirm airway patency.
5. Assess breathing and circulation.
6. Obtain pulse oximetry reading.
7. Administer supplemental OXYGEN per <i>Oxygen Administration Procedure</i> .
8. Identify and treat life threatening conditions.
9. Perform rapid trauma assessment.
10. If patient meets "load and go" criteria, transport as soon as possible (see <i>Load and Go Protocol</i>). Ensure advanced level intercept is activated if patient condition or mechanism warrants.
11. Manage non-life threatening injuries (if patient is unstable, do this while enroute and as time allows)
12. Take vital signs every 5 minutes (unstable) or 15 minutes (stable). Ensure a blood glucose measure is performed.
13. Perform 12-lead ECG (unstable or significant mechanism of injury).
14. Perform secondary trauma survey if time and patient condition allows.

Trauma Care

ROUTINE TRAUMA CARE

Protocol # T400

ALS
1. Perform scene survey (assess for hazards, number of patients, mechanism of injury, special extrication needs, etc.).
2. Consider spinal precautions if mechanism warrants (refer to <i>Spinal Immobilization Procedure</i>).
3. Assess level of consciousness.
4. Establish/confirm airway patency.
5. Assess breathing and circulation.
6. Obtain pulse oximetry reading.
7. Administer supplemental OXYGEN per <i>Oxygen Administration Procedure</i> .
8. Identify and treat life threatening conditions.
9. Perform rapid trauma assessment.
10. If patient meets "load and go" criteria, transport as soon as possible (see <i>Load and Go Protocol</i>).
11. Manage non-life threatening injuries (if patient is unstable or mechanism warrants, all interventions shall be performed enroute).
12. Establish IV access. <ol style="list-style-type: none">If patient is unstable, establish two large-bore IVs and administer 500 ml LACTATED RINGERS boluses (total), titrate to maintain a systolic blood pressure of 80 mmHg. Repeat 500ml bolus as needed to maintain systolic blood pressure. IO should be used in these patients if first attempt at IV access is unsuccessful.If patient is stable, but a significant mechanism of injury is present, establish IV access.If patient is stable and a low mechanism of injury is present, IV access may be established.
13. Take vital signs every 5 minutes (unstable) or 15 minutes (stable). Ensure a blood glucose measure is performed.
14. Perform 12-lead ECG and continuous cardiac monitoring (unstable, significant mechanism of injury, or trauma-induced chest pain).
15. Consider initiating <i>Pain Control Protocol</i> .
16. Perform secondary trauma survey if time and patient conditions allow

Notes:

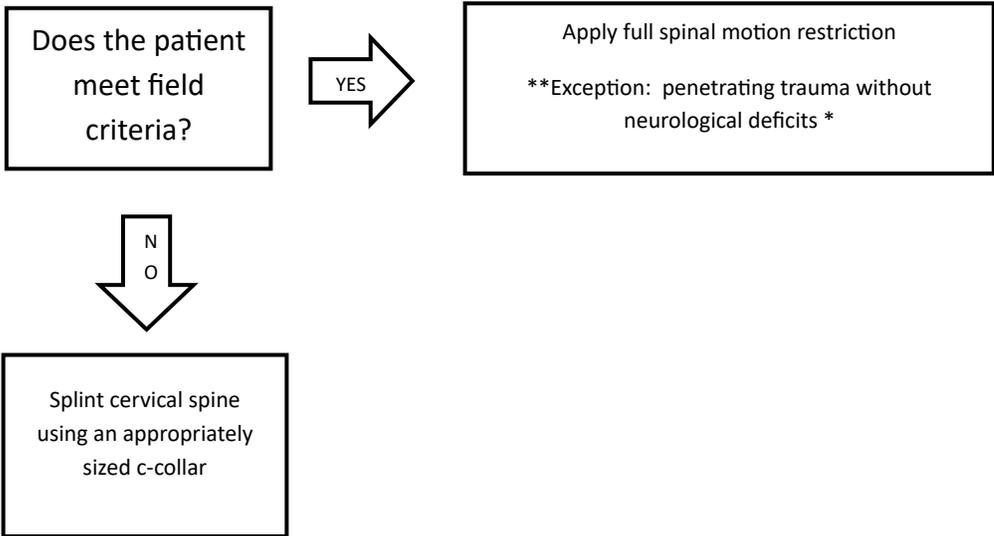
- Consider application of system approved Pelvic binder for pelvic fractures

ALL
LEVELS

Trauma Care SMR Decision Tree/Field Spinal Motion Restriction Protocol # T405

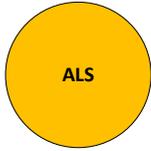
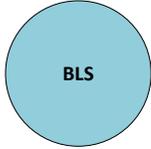
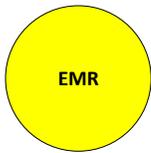
SMR DECISION TREE

Clinical indications: patients with traumatic neck/back pain, head injury or facial trauma, or with a significant or uncertain MOI or high index of suspicion for spinal trauma (e.g. axial load (diving), MVC* or bicycle, falls...). In high-risk patients (e.g. elderly, osteoporotic, degenerative disorders) less forceful mechanism can cause significant injuries.



- ### Level 1 Trauma
- Blunt or penetrating trauma with unstable vital signs AND/OR
- Hemodynamic compromise (BP<90)
 - Respiratory Compromise (RR<10 or >29)
 - Altered Mental Status
- Specific Anatomic Injuries
- Penetrating trauma proximal to elbow/knee
 - Flail chest
 - 2+ long bone fractures
 - Crushed/Degloved injury
 - Combined Trauma with >20% TBSA burns
 - Amputation proximal to ankle or wrist
 - Open/Depressed Skull Fx

- ### Level 2 Trauma
- GCS <14
 - Falls
 - Adults >20 ft; Peds >10 ft or 2-3 times height of child
 - High risk auto crash
 - >12 in, intrusion into passenger compartment
 - Ejection
 - Death in same compartment
 - Auto -vs- Pedestrian
 - Motorcycle Crash >20 mph



**Trauma Care
Traumatic ARREST
Protocol #T410**

**EMS witnessed cardiac arrest due to trauma
OR
Trauma patient not meeting criteria for termination per Dead on Scene Protocol**

**EMR/BLS
CPR if witnessed**

**Medical cardiac arrest suspected by low mechanism of injury:
- low speed MVC
- hanging
- drowning/asphyxia
Protocol # C105**

Withhold compressions and simultaneously perform Life-Saving Interventions.

Life Saving Interventions

Control massive hemorrhage

- Direct pressure/tourniquet for external hemorrhage
- Pelvic binder for suspected pelvic fracture
- Provide high flow oxygenation and if needed provide assisted ventilation with BVM (igel or ET preferred)
- 2 large bore IV/proximal IO access
- Volume replacement (max 40 cc/kg or 2L for adults)
- Consider bilateral chest decompression

Consider withdrawal of efforts per Dead on Scene Protocol if no signs of life after Life Saving Interventions

**Administer TXA 1g IVP enroute to the Emergency Department if enough resources.
If pulseless start or resume compressions**

**Transport to closest appropriate facility
Preferred Level 1 Trauma Center**

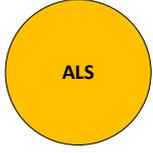
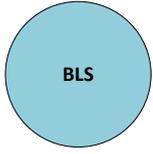
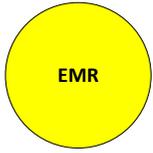
Note:
The initial cardiac rhythm for most patients in survivable traumatic cardiac arrest is pulseless electrical activity (PEA). This rhythm in traumatic cardiac arrest usually represents a very low output state caused by an obstruction (e.g. pneumothorax, pericardial tamponade) or hypovolemia (blood loss anemia), rather than a true "cardiac" arrest.

In cardiac arrest caused by hypovolemia, cardiac tamponade, or tension pneumothorax, chest compressions are unlikely to be effective. Subsequently, chest compressions take a lower priority than the immediate treatment of reversible causes (e.g. needle decompression, airway management, controlling hemorrhage, etc.). Performing chest compressions can not only impair and hinder the performance of life saving interventions in trauma patients, they can - in some patients - cause significant harm; in a patient with extensive chest or rib injuries, for example, chest compressions may cause direct injury to underlying organs.

In cardiac arrest due to trauma, hemorrhage control, the restoration of circulating blood volume, opening the airway, and relieving suspected tension pneumothorax should take priority over conventional cardiopulmonary resuscitation (CPR) (i.e. external chest compressions, defibrillation, and adrenaline) unless a medical cause for cardiac arrest is reasonably suspected to have preceded the traumatic event.

This guideline is for trauma patients that are about to lose pulses or have lost pulses in front of EMS. It does not apply to those patients who would meet the criteria for termination based on the Dead on Scene Protocol.

Trauma Care Head injury Protocol # T415



- 100% OXYGEN
- Assist ventilations as needed
- Vomiting precautions
- Immobilize C-spine
- Routine Trauma Care

Monitor pt closely
Transport to closest appropriate facility

YES

Alert

NO

UNRESPONSIVE TO VOICE AND PAIN

- Pupil(s) dilated
- Signs of increased intracranial pressure and/or
- Glasgow Coma Score 8 or less

BLS Obtain ALS Intercept

ALS
Refer to RSI Protocol if indicated
Before RSI be sure BP is above 100 systolic
Maintain C-spine while intubating

If SBP<90 or MAP <60, give NS bolus to maintain SBP >90 MAP>60 up to max 1000ml



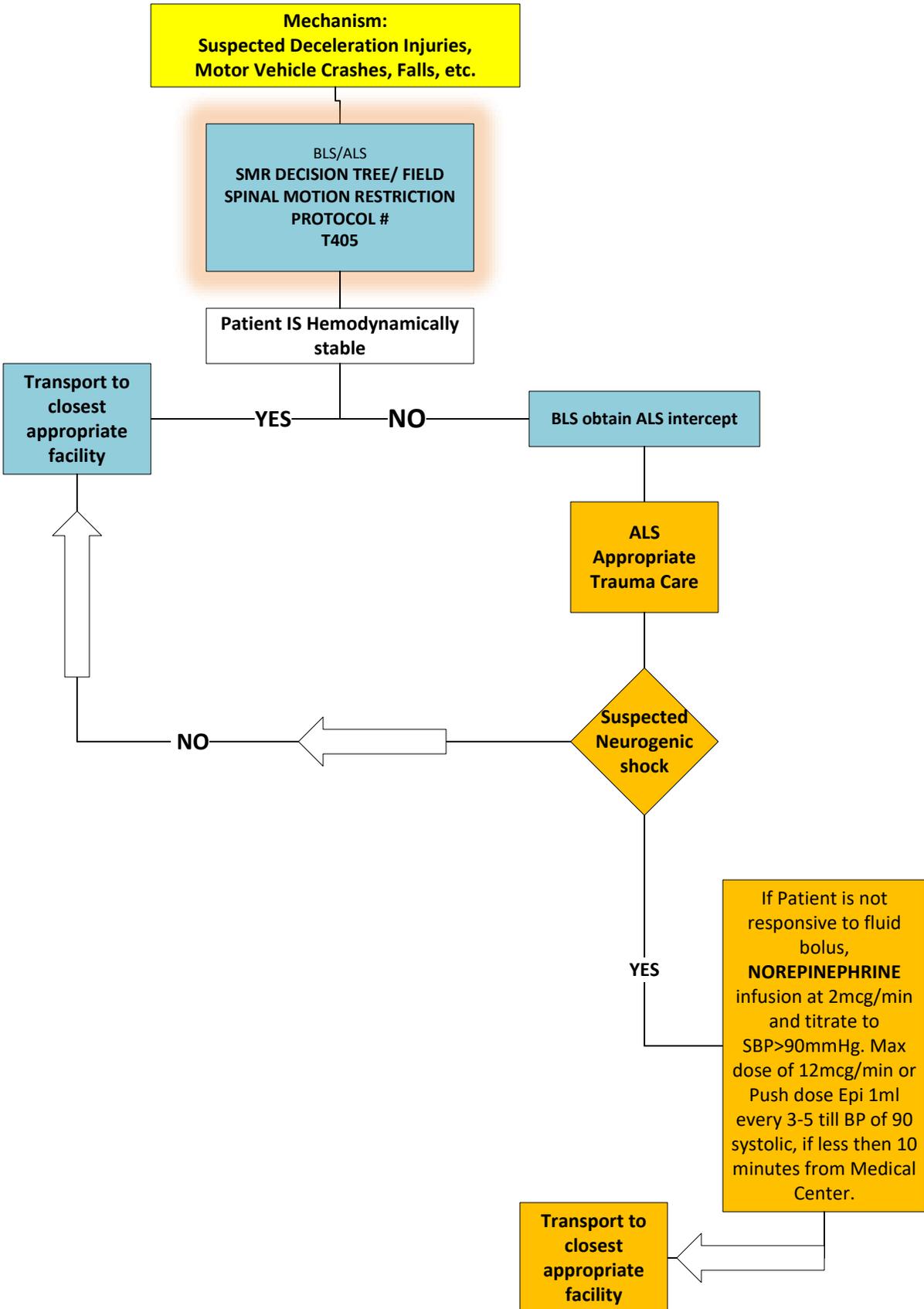
Notes:
*Do not delay transport time with multiple intubation attempts
**For signs of increased ICP such as unequal or fixed pupils, posturing, Cushing's response (hypertension/bradycardia), abnormal respiratory pattern, ventilate to goal ETCO2 of 30-40 or if not available, 20 breaths per minute.

**Trauma Care
Spinal injury
Protocol # T420**

EMR

BLS

ALS



Trauma Care Burns Thermal/Electrical/Lightening Protocol # T425

EMR

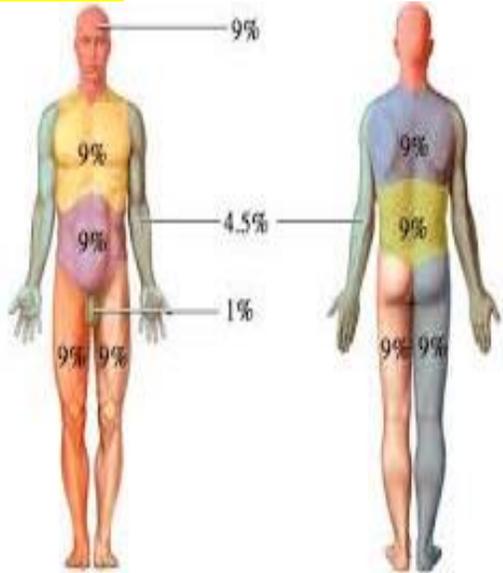
BLS

ALS

All Levels
 Have pt removed from fire/remove fire from patient
 (See notes)
Routine Trauma Care
 Remove clothing, jewelry from affected areas
 (clothing sticks, do NOT remove)

BLS obtain ALS intercept

ALS
 Obtain large bore IV's
 500ml LR fluid bolus
 Repeat as needed to maintain BP
 Pain control as needed



Monitor closely
 Transport to closest appropriate facility

NO

Possible Airway compromise ?

YES

ALS RSI Protocol
 Obtain advanced airway early

Notes:

a. If burn occurred within 15 minutes, cover burns with dry, clean/sterile dressing and cool with sterile water.

b. If burn occurred greater than 15 minutes prior, apply dry, clean/sterile dressings.

Consider helicopter for transport to Burn Center

Burn patients are often victims of multiple trauma. Treatment of major traumatic injuries takes precedence over wound management. Isolated burn injury patients should be transferred to the closest available hospital

ASSESS

- Total body surface area: use rule of 9s or estimate using patient's palmar surface as 1%
- Depth of burn: partial or full thickness, consider exposure to products of combustion and treat as soon as possible

**Trauma Care
Burns Chemical
Protocol# T430**

EMR

BLS

ALS

All Levels
Identify Chemical Causing burns/injury
Utilize MSDS Sheets or Safety Date
Sheets

Routine Trauma Care
Removed contaminated clothing
Decon as recommended by MSDS
sheets

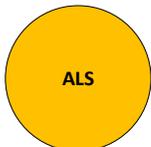
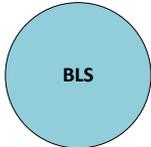
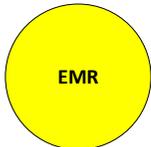
Ensure receiving Medical
Center of potential chemical
exposure
Transport to closest
appropriate facility

Notes:

Irrigate or flush burn with copious amounts of water or saline, unless contraindicated.

- a. Dry powder burns should be brushed off before applying water**
- b. Irrigate burns to the eye(s) for at least 15 minutes**
- c. Alkaline burns should receive continuous irrigation**

ALS: Initiate Pain Control as needed



**Trauma Care
Extremity Injuries/Amputated Tissue
Protocol# T435**

**All Levels
ROUTINE TRAUMA CARE
(CABs always take priority over the
severed part)**

**All Levels
Control bleeding with direct pressure and elevation
For uncontrolled hemorrhage:**

- Consider use of a hemostatic dressing (if available)
 - Use a tourniquet if needed
 - Note time of placement
- Apply as close to the injury as possible
- DO NOT release once applied

**BLS Obtain ALS
intercept if
determine blood
loss to unstable
hemodynamically**

**Amputated
Tissue?**

No

YES

- Wrap part in sterile gauze, sheet or towel.
- Place part in waterproof bag or container and seal.
- DO NOT immerse part in any solutions.
- Place this container in a second one filled with ice, cold water or cold pack.

**ALS
Obtain IV/IO
access
Pain control as
needed**

**BLS Obtain ALS
intercept**

**Transport to
closest
appropriate
Facility**

**ALS
Obtain IV/IO
access
Pain control as
needed**

Note:
• Consider application of system approved Pelvic binder for pelvic fractures
Consider helicopter for transport to Trauma Center



Trauma Care Hemorrhagic Shock Protocol # T440

EMR

BLS

ALS

All Levels
ROUTINE TRAUMA CARE WITH 100% OXYGEN

All Levels
Control external hemorrhage if present.
Consider use of a hemostatic dressing
(if available)

BLS Obtain ALS Intercept

ALS
If patient remains hemodynamically
unstable (SBP <80 mmHg) after
bleeding control attempts administer
fluid bolus of 500 ml of **LACTATED
RINGERS.**

ALS
Administer **TRANEXAMIC ACID**
(TXA) 1 gm IVP. This may be
done co-current with fluid
bolus

Transport to
closest
appropriate
facility

Note:

- TXA cannot be administered if trauma occurred more than 4 hours prior.
- TXA can be utilized in suspected GI Bleed, Vaginal Bleed or Postpartum Hemorrhage with signs of shock (tachycardia and/or hypovolemia, altered mental status)
- TXA may be used for epistaxis that is uncontrollable
 - Soak a 4x4 gauze(s) with TXA, once fully soaked, place gauze into nare. Leave enough gauze out of the nare so that if necessary, gauze may be removed

**Trauma Care
Crush/Suspension Protocol# T445**

EMR

BLS

ALS

All Levels
Routine Trauma Care
If extremity involved, place EMS approved tourniquet on affected extremity as close to crush injury as possible.

BLS
Prior to Release of compression/
suspension force:
Neb **ALBUTEROL SULFATE** (NOT DUONEB)
Repeat once

BLS Obtain ALS intercept

ALS
IV/IO x2
Administer **1000 ml LR bolus**;
then give **Sodium Bicarbonate**
1 amp IVP

ALS
Prior to Release of compression/
suspension force: Neb
ALBUTEROL SULFATE (NOT
DUONEB)
Repeat once

ALS
**AFTER RELEASE OF
COMPRESSION/
SUSPENSION FORCE:**
If hyperkalemia is suspected
(compression >4 hours;
suspension >2 hours,
abnormal ECG showing
peaked T-waves, absent P-
waves, or widened QRS,
CALCIUM Glucanate 1 gm
slow IVP.

Transport to
closest
appropriate
facility

Note:
Rescue of victims is paramount in suspension situations.
Consider Helicopter transport to Trauma Center if able

General Protocols Pain Control Protocol #G500

EMR

BLS

ALS

All Levels
Routine Medical/Trauma/Cardiac Care

BLS
Administer **1000mg of Tylenol** oral
for minor to moderate pain
Consider **ONDANSETRON 4mg ODT**
for nausea

Transport to
closest
appropriate
facility

Extreme Pain

NO

YES

**BLS Obtain ALS
intercept**

Consider
**ONDANSETRON
4mg IV/ODT** for
nausea as a
prophylactic
treatment.

ALS
**Fentanyl 1mcg/kg IV/
IO/IN max single dose
of 100mcg**

ALS
Continued pain after
10min, **FENTANYL 1mcg/kg
IV/IO/IN**
Max for repeat dose 50mcg
After 10 min repeat with
MAX dose of 200mcg total

ALS
After max **FENTANYL** or if BP is low,
consider 0.5mg/kg **KETAMINE IV/IO**
infused in 100ml NS over 15 min.

Note:

- If patient is allergic to a medication in the pain control protocol, do not administer that medication.
- Overall goal of pain management is for the patient to be pain free. If you administer the maximum dosage of medications under this protocol, contact medical control for further orders.
- **Closely monitor patient's respiratory status. Continuous SpO2, cardiac monitoring, and capnography (if available) is required on patients receiving pain control.**
- Tylenol is specifically for traumatic minor to moderate pain (ie, sprains, strains, ect.)
- Note, ALS non-transport carry reduced Fentanyl totals. They will be unable to give repeat doses.

**General Protocols
Nausea/Vomiting
Protocol #G505**

EMR

BLS

ALS

**All Levels
Routine Medical/Trauma/Cardiac
Care
(Be sure pt is sitting up or in a
lateral recumbent position or if
on LSB, slightly tilted to prevent
aspiration)**

**BLS
ONDANSETR
ON 4mg ODT**

**ALS
Obtain IV
Fluids if
needed
ONDANSETR
ON 4 mg IV/
ODT
May repeat
once if pt
remains
nauseous/
vomiting**

**Transport to
closest
appropriate
facility**

Note:

**Closely monitor airway,
keep suction ready to
use!**

General Protocols Chemical Restraint Protocol #G510

BLS

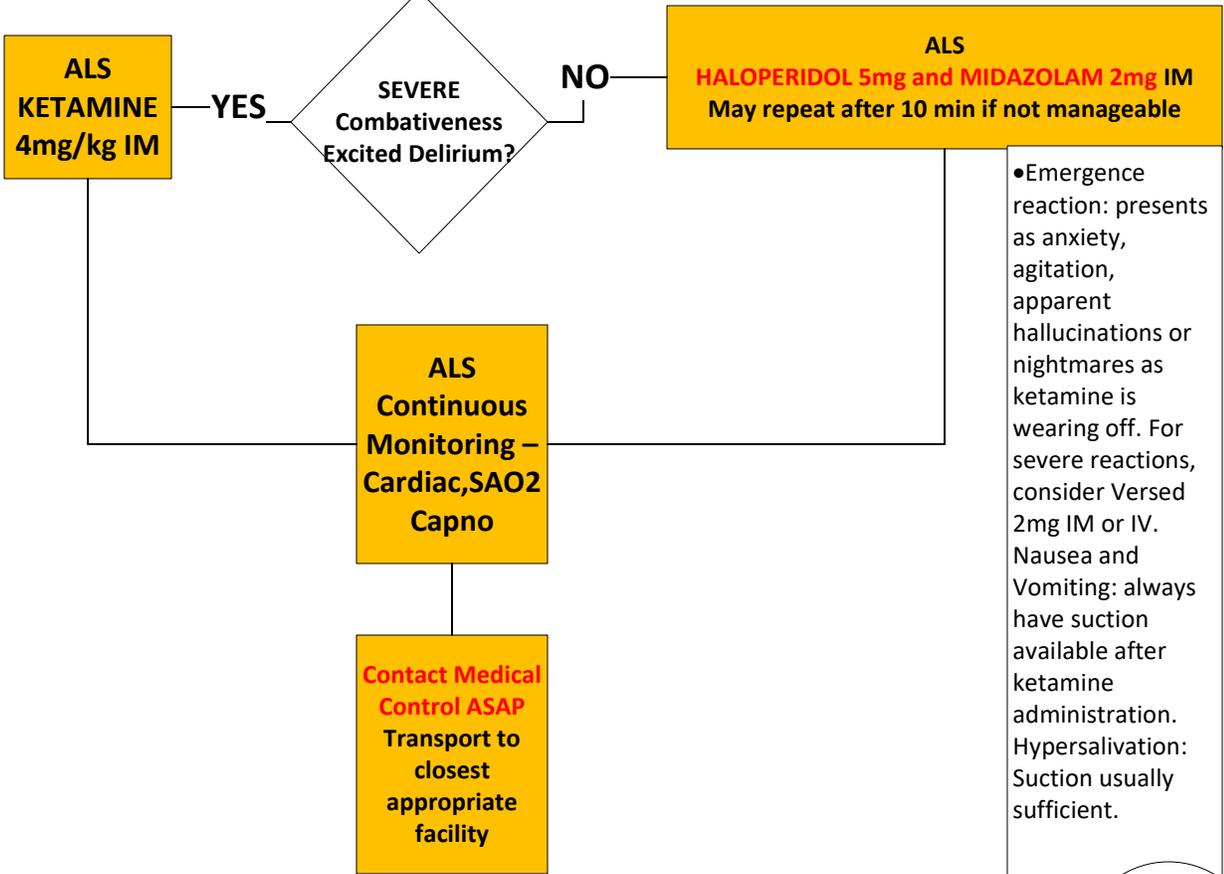
ALS

EMR

**All Levels
Routine Medical Care
Work with law enforcement to safely
control/restrain patient only if necessary
REFER to Patient Restraint PROCEDURES**

Note:

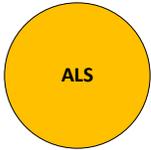
- IM Injections should be given in the Vastus Lateralis or the Dorsogluteal. Injections should not exceed 5mL per site.
- Document the patient's behavior, statements, actions and surroundings.
- Verbally attempt to calm and/or re-orient the patient to reality.
- If restraints are used, thoroughly document the reasons for applying restraints, time of application, condition of the patient before and after application, method of restraint and any law enforcement involvement, including any use of law enforcement equipment (e.g. handcuffs) and the time Medical Control was contacted.



• Emergence reaction: presents as anxiety, agitation, apparent hallucinations or nightmares as ketamine is wearing off. For severe reactions, consider Versed 2mg IM or IV. Nausea and Vomiting: always have suction available after ketamine administration. Hypersalivation: Suction usually sufficient.

- Consider medical etiologies of apparent behavioral disorders such as hypoxia, stroke/head bleed, substance abuse/overdose, and hypoglycemia.
- Document response to sedation including vital signs, Rhythm, Pulse Ox and ETCO2.
- Haldol may precipitate dystonic reactions including Restlessness, Tics, and Muscle Rigidity. If suspected, give Benadryl 25mg IV or IM.
- When using Ketamine, be aware of Side Effects Laryngospasm: this very rare adverse reaction presents with stridor and respiratory distress. After every administration of ketamine:
 - Prepare to provide respiratory support including bag-valve-mask ventilation and suction which are generally sufficient in rare cases of laryngospasm.
 - Institute cardiac monitoring, pulse oximetry and continuous waveform capnography
 - Establish IV or IO access, check blood glucose
 - Establish and maintain physical restraint.

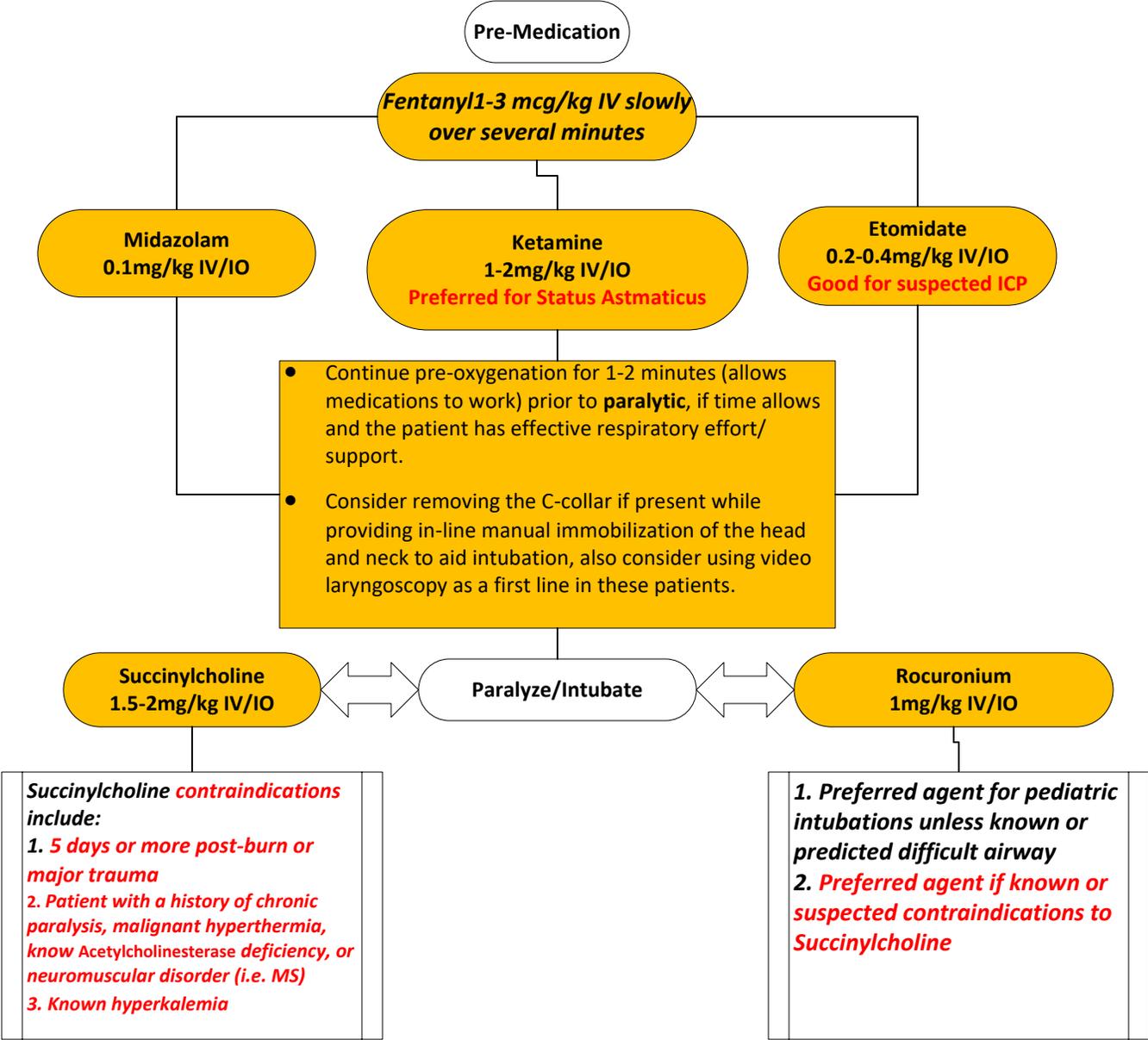
General Protocols
RAPID SEQUENCE INTUBATION
Protocol #G515



ALS

1. **PRE-OXYGENATE:** Position the patient and pre-oxygenate with high flow oxygen by mask for 2-5 minutes. Do not manually ventilate the patient unless ventilatory assistance is needed; if so, use BVM to provide respiratory support.

2. **PREPARE:** Assess for difficult airway and likelihood of difficulty with bag and mask ventilation. Have airway adjuncts and alternative airway readily available. If you anticipate difficulty with intubation or bag and mask ventilation call for help early and have a primary and secondary plan for airway management consider using video laryngoscopy initially. Assemble the required equipment and draw up the medications in labeled syringes. Ensure that the IV functions well. Continuously monitor the cardiac rhythm and pulse oximetry if conditions allow. Have immediately available an iGel or BIAD, and the emergency cricothyrotomy kit. **RSI requires the use of a video laryngoscope**



General Protocols
RAPID SEQUENCE INTUBATION
Protocol #G515

ALS

Continuation

CONTINUED NEUROMUSCULAR BLOCKADE
after intubation

Rocuronium 0.5-1.0 mg/kg IVP

CONTINUED SEDATION,
administer

Midazolam (Versed) 0.05mg/kg (3-5 mg in adults)
every 15-30 minutes prn after intubation

Ketamine 0.5-1.5 mg/kg every 5-10 minutes

Fentanyl 1-3 mcg/kg IV
over 2 minutes

NOTE:

- Apnea, jaw relaxation, and decreased resistance to bag/mask ventilations indicate that the patient is sufficiently relaxed to proceed with intubation.
- Intubate, check tube placement secure tube, and continue to assist respiration

UNSUCCESSFUL PLACEMENT:

If endotracheal intubation is unsuccessful, and you are unable to ventilate the patient with BVM, consider attempting to gain airway control using one of the following techniques:

- Place iGel
- Attempt placing bougie through iGel, and exchanging for ETT (only if iGel ineffective)
- Consider quick trach procedure if absolutely necessary.**

** If intubation is unsuccessful and additional paralytics are needed, a non-depolarizing agent should be considered after ease of bagging and airway back up has been carefully considered.

**General Protocols Behavioral
Health Patients
Protocol #G520**

EMR

BLS

ALS

Refer to Decisional Capacity checklist for further information.
Ensure scene safety on all calls.

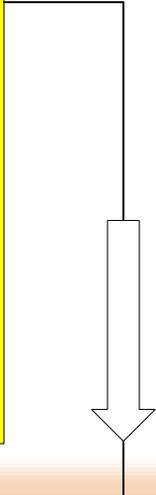
EMR/BLS
Routine medical care
Be sure there are no underlying medical or trauma issues
Attempt to calmly reassure patient. Allow the patient to speak. Maintain a non-judgmental attitude when interacting with the patient, family and bystanders
If patient is suicidal, or clearly incompetent and dangerous to self or others, it is in the best interest of the patient to receive further treatment.
Attempt to gain cooperation with patient and voluntary agreement to seek further treatment at the appropriate facility
If patient is uncooperative, work with police to determine the need for involuntary paperwork.
If necessary for patient or provider safety, contact ALS to consider the use of chemical restraint policy.

Note:
•EMS does not fill out involuntary commitment forms
•EMS may accept involuntary commitment forms completed by law enforcement or a licensed clinical social work or other appropriate mental health providers

Forms must be fully completed and legible to be accepted

**ALS
BLS care
Consider use
of protocol
#510**

**Transport to
closest
appropriate
facility per
system policies.**



**OB/GYN
Pre-Eclampsia/Eclampsia/Toxemia
Protocol #O600**

EMR

BLS

ALS

**All Levels
Assure Airway and adequate breathing**

**All Levels
Routine Medical Care
Assure Minimal Stimulation (DO
NOT CHECK Pupils with a LIGHT
SOURCE)**

**EMR/BLS
If pt is seizing, follow
Protocol #M335**

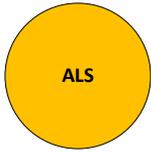
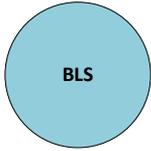
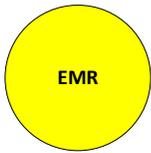
**BLS Transports
OBTAIN ALS
INTERCEPT
Immediately**

**ALS
If pt is seizing follow Protocol
#M335
Administer Magnesium
Sulfate 2-4 g SLOW IV (not to
exceed 1g/Min)
Do not lower BP to less <130/80**

**Transport to
closest
APPROPRIATE
facility**

**Advise Med Control
of situation**

Note:
Definition: Coma and convulsive seizures or SBP greater than 140, diastolic greater than 90, occurring between the 20th week of pregnancy and the end of the first week postpartum.



**OB/GYN Impending Delivery
Protocol #O605**

All Levels
Routine Medical Care
 Obtain complete Hx of pregnancy
 Position pt on left side if in 2nd or 3rd
 trimester
 If hypotensive – elevate feet 10-12
 INCHES

**BLS Have OB kit out
 and ready
 Obtain ALS Intercept**

ALS
 Continue BLS
 care
 If Hypotensive
 obtain IV
 Fluids LR with
 250ml bolus

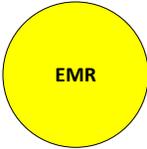
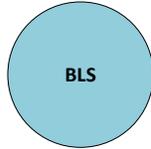
Crowning?
 YES
 NO

**Prepare for
 delivery
 Use
 appropriate
 protocol**

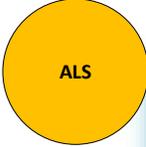
**Transport to
 closest
 APPROPRIATE
 facility**

Note:

- **History questions:** length of gestation, previous pregnancies (gravida), # of children from previous pregnancies (para), due date, history of complications of pregnancy, pain level, contraction status/frequency, membrane status, anticipated multiple birth, estimate bleeding, high risk factors.
- **High risk factors:** lack of prenatal care, drug abuse, teenage pregnancy, history of diabetes, hypertension, cardiac diseases, previous breech or c-section deliveries, pre-eclampsia/eclampsia/toxemia



**OB/GYN
Childbirth: Normal Delivery
Protocol #O610**



EMR/BLS

1. If field delivery is imminent, allow delivery to progress spontaneously.
2. Support baby's head so that it doesn't emerge too quickly.
3. Tear amniotic membrane if it is still intact and visible outside the vagina.
4. Check for cord around neck. If cord is around neck, try to slip it over the shoulder and head. If unable to remove the cord from around neck, place umbilical clamps 2 inches apart and cut cord between clamps.
5. The baby will be wet and slippery. Carefully support head throughout delivery. Suction baby's mouth then nose with bulb syringe as soon as head emerges.
6. Tell the mother to resume pushing. Support the head as it rotates. A slight lowering of the baby to allow delivery of the anterior (top) shoulder, and then gentle lifting to allow delivery of the posterior (bottom) shoulder may be helpful. The baby should deliver completely.

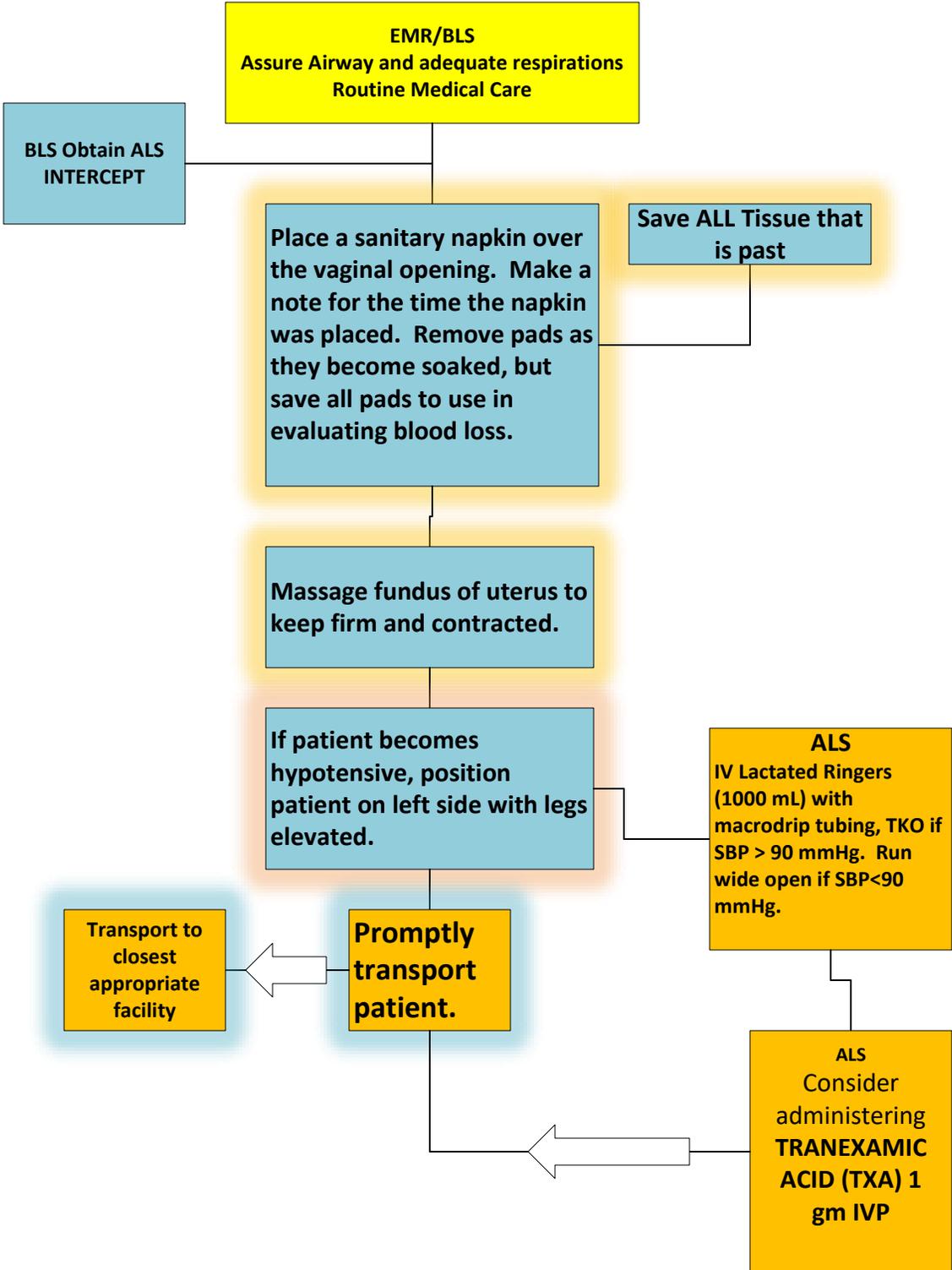
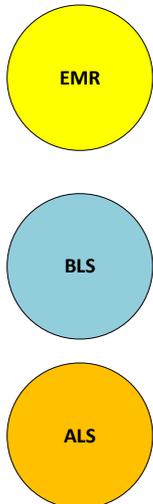
- AFTER DELIVERY
1. Routine Medical Care.
 2. Placenta should deliver within 20-30 minutes. Do not delay transport while waiting for placenta to deliver.
 3. Observe for excessive bleeding.

ALS

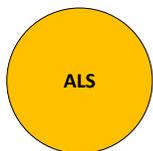
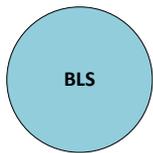
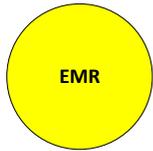
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6. Tell the mother to resume pushing. Support the head as it rotates. A slight lowering of the baby to allow delivery of the anterior (top) shoulder, and then gentle lifting to allow delivery of the posterior (bottom) shoulder may be helpful. The baby should deliver completely.

- AFTER DELIVERY
1. Routine Medical Care.
 2. Placenta should deliver within 20-30 minutes. Do not delay transport while waiting for placenta to deliver.
 3. Observe for excessive bleeding.
 4. IV Lactated ringers (1000 mL) with macrodrip tubing, TKO if SBP > 100 mmHg. Run wide open if SBP < 100 mmHg.

**OB/GYN
Severe Vaginal Hemorrhage
(Postpartum or Miscarriage)
Protocol #O615**



OB/GYN
Abnormal Deliveries- Prolapsed Cord
Protocol #O620



EMR
Routine Medical Care
O2 via Nasal Cannula 4lpm

BLS

1. Routine Medical Care.
2. Oxygen via nasal cannula 4 liters per minute.
3. Transport immediately.
4. Place mother in knee-chest position or in a supine position with hips elevated on pillow.
5. Protect cord from being compressed by placing sterile gloved hand in vagina between pubic bone and presenting part with cord between fingers and exert counter pressure against presenting part. Keep hand in position until relieved.
6. Palpate cord for pulsation two time max
7. **DO NOT ATTEMPT TO PUSH CORD BACK.**
8. Keep exposed cord moist and warm.

ALS
Continue BLS
Care
Obtain IV
LR TKO
enroute

Transport to the
closest
APPROPRIATE
facility

OB/GYN
Abnormal Deliveries- Breech
Protocol #O625

All Levels

- 1. Routine Medical Care.**
- 2. Oxygen via nasal cannula 4 LPM.**
- 3. Transport immediately.**
- 4. Never attempt to pull the baby from the vagina by the legs or trunk.**
- 5. As soon as legs are delivered, support baby's body.**
- 6. After shoulders are delivered, gently elevate trunk and legs to aid in delivery of head (if face down).**
- 7. Head should deliver in 30 seconds. If not – reach 2 fingers into the vagina to locate the infant's mouth. Press vaginal wall away from baby's mouth to force an airway. Apply gentle pressure to the mother's fundus.**

**Transport to Closest
appropriate facility**

**Abuse
Rape/Sexual Assault
Protocol #A700**

1. Treatment Facility – Means the hospital can provide forensic evidence collection of a patient who experienced a sexual assault

2. Transfer Facility – Means the hospital can treat any life threats, however the patient will need to be transferred to another facility for evidence collection/forensics of the sexual assault

All levels

1. Ensure scene safety. Survey the scene giving special consideration to preserving any articles of evidence on or around the patient.
 - a. Discourage patient from changing clothes, urinating, or washing/showering.
 - b. Collaborate with police to determine what articles (e.g. clothing) will be transported with the patient.
 - c. Do not physically examine the genital area unless there are apparent injuries which need treatment.
 - d. All linen used by the patient should be left with the patient at the Emergency Department.
2. If the patient is injured, routine trauma care. If no obvious injuries, routine medical care.
3. Notify law enforcement (if not already at scene).
4. Only ask questions pertinent to injury.
5. See *reporting of Suspected Crime* policy/procedure.

Note:

- ***It is important to note that this memo is specific to sexual assault evidence collection.**
- ***Whether evidence is collected or not is at the determination of the ER physician and staff. EMS does NOT make the determination whether evidence is to be collected or not.**
- ***Agencies who are in rural settings and do not typically transport to a treatment facility or are geographically distant from a treatment facility should transport the patient to the closest appropriate facility.**
- ***If patient is in extremis (i.e experiencing a life threat or is unstable), transport to the closest appropriate facility.**
- ***Patients still have the right, if they meet all the requirements (age, orientation, etc.), to choose the facility they are transported to. However, it is important that providers educate their patients on a facility's ability to treat specific conditions.**

OSF Hospitals	Approved Transfer Hospitals (i.e., where do the patients who present to the hospital transfer to?)	Treatment Hospital Pediatrics (0-12 years)	Treatment Hospital Adult (13 & older)
Saint Elizabeth Medical Center, Ottawa	SFMC & SJMC (Peds)		YES
Saint Elizabeth Medical Center - PERU	SEMC – Ottawa (A/A), SPMC (A/A), SFMC & SJMC (Peds)		
Center for Health Streater	SPMC & SEMC (A/A); SFMC & SJMC (Peds)		
Saint Paul Medical Center, Mendota	SFMC & SJMC (Peds)		YES
Sacred Heart Medical Center, Danville	Carle (all ages)		
Little Company of Mary Medical Center, Cook County	Advocate Christ (Peds) & Mt. Sinai (A/A)		
Saint Anthony Health Center, Alton (Contracted with MEDS for A/A)	SSM Cardinal Glennon (Peds), St. Louis Children's (Peds)		YES
Heart of MaY Medical Center	Carle (all ages)		
HoY Family Medical Center	McDonough District (all ages), SFMC (all ages)		
Saint Anthony Medical Center	Swedish American (all ages)		
Saint Clare Medical Center, Princeton	SFMC (all ages); SPMC & SEMC (A/A)		
Saint James JA Medical Center, Pontiac	SJMC (all ages)		
Saint Luke Medical Center, Kewanee	SFMC (all ages)		
Saint MaY Medical Center, Galesburg	SFMC (all ages)		
Saint Katharine Medical Center, Dixon	SPMC & SEMC (AA) & UW Swedish American (Peds)		
Saint Francis Medical Center, Peoria	N/A (treatment hospital)	YES	YES
Saint Joseph Medical Center, Bloomington	N/A (treatment hospital)	YES	YES
Saint Francis Hospital, Escanaba	N/A (treatment hospital)	YES	YES

A/A = Adult and adolescent patients 13 years and older

Peds = pediatric patients 12 years old and younger

OSF Treatment Hospital	Non-OSF Transfer Hospitals
Saint Francis Medical Center	Carle Eureka (all ages)
	Graham Hospital, Canton (all ages)
	Gibson Area Hospital, Gibson City (pediatrics)
	Hopedale Medical Center (all ages)
	Methodist Medical Center (pediatrics)
	Pekin Memorial (all ages)
	Proctor Community Hospital (all ages)
	St. Margaret's Hospital Spring Valley (all ages) – CLOSED
	Morrison Community Hospital, Morrison, IL (pediatrics)
	Morris Hospital (pediatrics)
St. Joseph Medical Center	Warner Clinton Hospital (all ages)
	Carle Bromenn (pediatrics)
	Morris Hospital (pediatrics)

**Abuse
Suspected Domestic/Neglect
Protocol #A705**

All Levels

1. General approach:

- a. Consider scene safety issues. If the suspected offender is present and interferes with transportation of the patient or is influencing the patient's acceptance of medical care, contact police and medical control and appropriate action.**
- b. Routine medical/trauma care.**
- c. Treat obvious injuries or illness.**
- d. Survey scene for evidence of abuse neglect:
 - i. Environmental**
 - ii. Interaction with family members**
 - iii. Discrepancies in history of events**
 - iv. Injury patterns that do not correlate with the history of patient use and mobility.**
 - v. Signs of intentional injury or emotional harm.****

2. Transport.

3. Prehospital providers are not mandated to report suspected domestic abuse but are required to discretely offer the victim information on where assistance may be obtained.

4. Thoroughly document the history and physical exam findings on the patient care report.

Note:

As with all patients, confidentiality is of the utmost importance. No suspicion or accusations of abuse should be transmitted over the radio.

**Abuse
Suspected Elder Abuse/Neglect
Protocol #A710**

All Levels

1. General approach:

- a. Consider scene safety issues. If the suspected offender is present and interferes with transportation of the patient or is influencing the patient's acceptance of medical care, contact police and medical control for appropriate action.**
- b. Routine medical/trauma care.**
- c. Treat obvious injuries or illness.**
- d. Survey scene for evidence of abuse neglect:
 - i. Environmental**
 - ii. Interaction with family members**
 - iii. Discrepancies in history of events**
 - iv. Injury patterns that do not correlate with the history of patient use and mobility.**
 - v. Signs of intentional injury or emotional harm.****

2. Transport.

3. Upon arrival, notify the receiving physician or nurse of the suspected abuse. Healthcare workers (including prehospital providers) are mandated by Illinois law to report cases of suspected abuse or neglect. You may contact the elderly abuse hotline 1-800-252-4343.

4. Thoroughly document the history and physical exam findings on the prehospital report.

Note:

- As with all patients, confidentiality is of the utmost importance. No suspicion or accusations of abuse should be transmitted over the radio.**

Version History

The following is the update lineage to the EMS protocols manual. Providers shall routinely check the system website (<https://x.osfhealthcare.org/services/medical-professionals/ems/sjjwamcems/forms>) to verify this copy is the most current edition. Only the most current edition, as listed on the website, shall be used for medical guidance. Previous editions shall be considered obsolete.

Initial Draft	N/A: Internal release only	N/A: not released to public
1.5	March 2020	Revised push dose epi protocols, medication mixed with normal saline
1.6	March 16, 2022	Bi PAP addition
1.7	Sept 1, 2022	Spinal immobile simplified, pain control changes.
2.0	Jun 17, 2025	<p>Grammatical errors corrected. Addition of the following:</p> <ul style="list-style-type: none"> • Nitro drip change for CHF • Max ipratropium uses • Narcan clarification • Trauma Alert clarification • Topical TXA • SA Chart • Labetalol for Hypertensive Emergencies • Calcium Gluconate
		<ul style="list-style-type: none"> • Increased Nitro drips for MI & CHF • TXA Changes • Verbiage change for Hyperthermia • Change for seizure medications dose
		<ul style="list-style-type: none"> • STEMI Criteria moved to Cardiac Care • Range for initial dose of Nitro drip for Chest Pain Protocol with increased frequency • Removal of gastric ulcer disease contraindication for ASA • Confirmation of tube placement • American Heart Association BLS Algorithm • Post-ROSC Protocol • Notes for Sodium Bicarbonate & Calcium Gluconate in cardiac arrest/rhythm specific treatment protocols • Increased max norepinephrine drip • Atropine increased for bradycardia
2.1	June 24, 2025	Medical Director Review
2.2	July 16, 2025	Medical Director approval – Submission to IDPH

2.3	December 18, 2025	<p>Grammatical errors corrected.</p> <p>Addition of the following:</p> <ul style="list-style-type: none">• Table of contents• #C100-systolic BP changed from >100 to >90 for administration of nitroglycerin sublingual• #C105A- updated to 2025 AHA algorithm• #C110-updated to AHA algorithm; changed wording and arrows to better clarify• #C155- simplified title eliminating 'unstable' and replacing with 'symptomatic'• #C160- simplified title eliminating 'unstable' and replacing with 'symptomatic'; replaced 'obtain vascular access' with 'consider vascular access'• #M310- simplified noted• #M315- simplified notes• #M330A- deleted policy; no longer applicable• #R200 & R210-updated Cpap to range of 5-10 cm h2o for BLS• #T405- added field spinal mobilization algorithm• #T410- changed TXA dosing to 1 gm IVP• #T440- changed TXA dosing to IVP• #T445- updated Sodium Bicarbonate to be given 1 gm IVP
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		<ul style="list-style-type: none">● #O600- removed note regarding Calcium Chloride● #O615- changed TXA dosing to IVP● #O700- updated wording for sexual assaults; removed timeframes for evidence collection; updated hospital transfer/ treatment sites with new reference sheet
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