It is the responsibility of the local medical director and the lead EMS agency to provide medical control and assure accountability for the pre-hospital care delivered in the EMS system. In McCracken County, all fire departments are important team members of the EMS system. To facilitate planning, implementation and evaluation of the local EMS system, Mercy Regional EMS has developed a set of medical protocols for certified EMT-first responders and EMT-Basics who provide pre-hospital medical care with McCracken County fire departments that respond as affiliated agencies with Mercy Regional EMS.

Each agency will be provided with both a paper and electronic copy of the *Mercy Regional EMS First Responder Protocols*. Included in these protocols is a single page medical report that the first responders will be asked to complete and return to Mercy Regional EMS for each medical call in which some form of treatment is rendered. In addition to this report, if an AED is utilized, the AED will be downloaded at Mercy Regional EMS Station I.

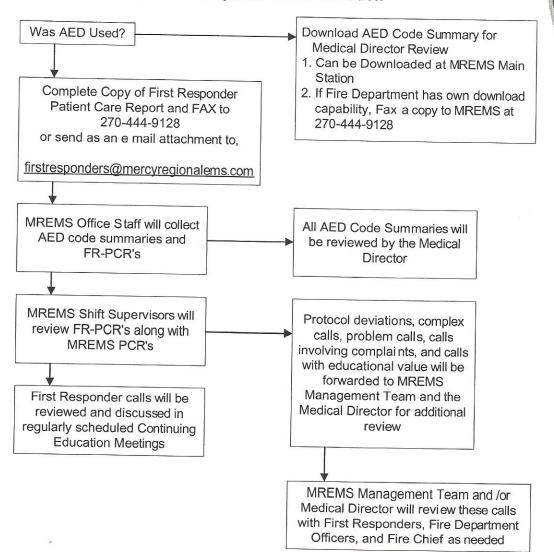
MREMS will provide medical direction for the McCracken County Fire Departments. This will include review of calls and appropriate feedback to the fire department. This feedback will be provided through a quarterly meeting that will include call review and

EMS training.	,	rude can leview
1 2 hall 11	19/10 Jaca	11-15-16
Irvin Smith, MD	Executive Director Mercy Regional EMS	Date
Chief	Fire Department	Date

Clinical Operating Guidelines First Responder

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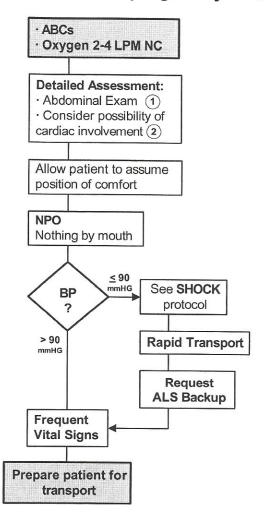
Mercy Regional EMS, LLC Affiliated First Responder Response Documentation



Approved: 1 / / 1 | 1 | James C Locke | Executive Director

Approved: 4 1 1 Irvin Smith /Medical Director

Abdominal Pain: Not related to pregnancy or trauma







Document:

- · Abdominal Signs/Symptoms
- · Absence or Presence of Chest Pain
- · Nature of Pain
- · Vital Signs
- · SpO2 (if available)
- · Treatment
- · Response to Treatment
- 1 Abdominal Exam: Note pain (nature, duration, intensity on 1-10 scale, radiation). Observe for palpable mass, always palpate with care. Auscultate prior to palpation. Note associated signs & symptoms; (nausea, vomiting, bowel tones, guarding, rebound tenderness, distention). History: previous episodes, last meal, current medications, last menstrual period, possibility of pregnancy.
- 2 Be aware that ischemic cardiac pain can present as abdominal pain especially in older patients. If cardiac pain is suspected notify ALS unit.

Approved: 0 111 James C Locke / Executive Director Approved 1 Irvin Smith /Medical Director,



AED: Automatic External Defibrillator

The patient is unresponsive, no movement, no breathing, no definite pulse Begin CPR / Call for ALS intercept

- . Unwitnessed arrest: CPR X 2 min then AED
- . Witnessed arrest: Apply AED ASAP
- . Stop CPR only to analyze and shock
- . Following shock, immediately resume CPR for 2 min
- . Ventilate with BVM with oral/nasal airway at a rate of 8-10 breaths / min



If definite pulse is present: Give 1 breath every 5-6 sec. Check pulse every 2 min

AED analysis and Shock X 1 at 360 joules (200 for biphasic)

Immediately resume CPR X 2 min

- · Press Analyze
- · Defibrillate up to 360 joules
- . Immediately resume CPR X 2 min

Continue Cycles of 2 min of CPR, AED analysis, and Shock if advised

Prepare patient for transport

BLS rescuers should continue CPR for 2 min cycles and use the AED as indicated until the patient begins to move (indicates a perfusing rhythm), a definite pulse is felt, or until ALS providers take over care.

PEDIATRICS: AED Approved for children over 1 year old

Pediatriac AED pads are preferred in children < 8 years of age but Adult AED pads and Adult AED may be used if th specific Pediatric equipment is not available

1. Avoid any CPR interruption: PUSH HARD and FAST

2. Resume CPR immediately after shock and continue for 2 minutes before repeating analysis by AED

3.CPR ratios:1 rescuer 30:2 compression/ventilation ratio, 2 rescuers 15:2 compression/ventilation ratio

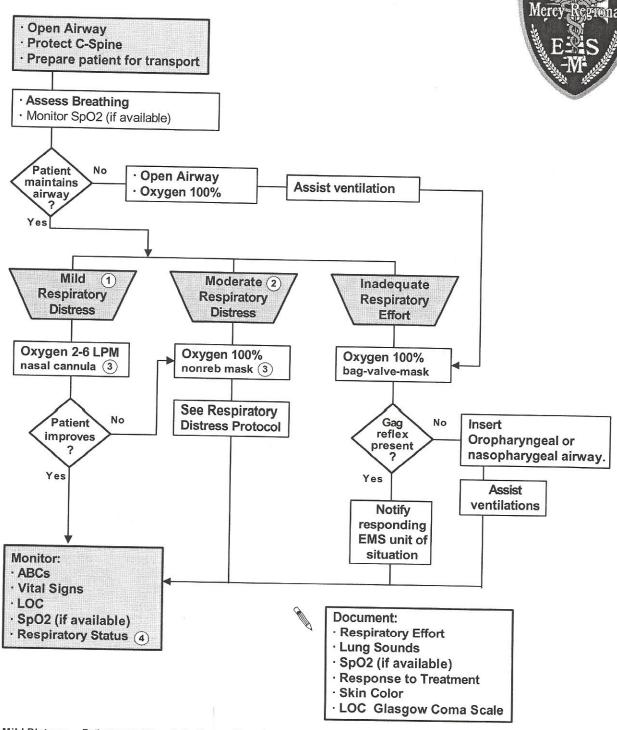
Document:

- · Airway
- · Respiratory Status
- · Circulation, Pulses
- · Capillary Refill
- · Neurological Status
- · Vital Signs
- · Treatment
- · Response to Treatment

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Airway Management



¹ Mild Distress - Patient complains of shortness of breath

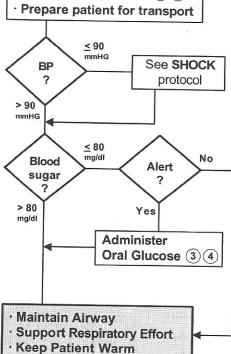
2 Moderate Distress - Shortness of Breath, use of accessory muscles, Anxiety and SpO2 < 95%

4 IF RESPIRATORY EFFORT OR LEVEL OF DISTRESS CHANGES MOVE TO THE APPROPRIATEASPECT OR ARM OF THIS PROTOCOL.

³ COPD patients often use their Hypoxic Drive. In these cases, expect and accept SpO2 readings <90 & >85%. Lower concentrations of oxygen may be indicated yet never deprive a patient, in respiratory distress, of Oxygen.

Altered Mental Status Coma

- Airway open & maintain Oxygen 100% NRBmask
- Breathing
- Assist Ventilations, prn
- Circulation
- · Transport ASAP
- · Detailed Assessment (1)(2)





Possible causes:

- · Head Injury
- · Cardiac Arrest
- · Diabetes
- · Seizure
- · Overdose
- · Hypertension



Document:

- · Glasgow Coma Scale
- Clinical Response to Dextrose
- · Blood Sugar
- · SpO2
- · Medical History
- · Exam
- · Vital Signs

Glasgow Co	oma Scale	
Eye	Spontaneous	4
Opening	To Voice	3
	To Pain	2
	None	1
Best	Oriented	5
Verbal	Confused	4
Response	Inappropriate words	3
	Incomprehensible words	2
	None	1
Best	Obeys Commands	6
Motor	Localizes Pain	5
Response	Withdraws (Pain)	4
	Flexion	3
	Extension	2
	None	1

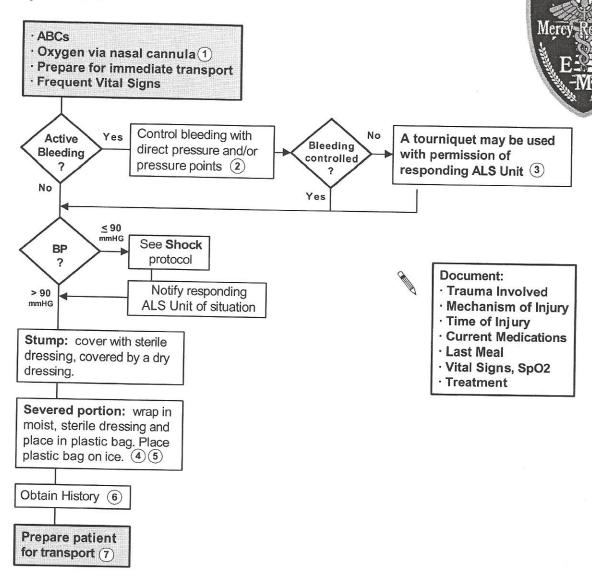
- 1 Detailed Assessment: Document Glasgow Coma Scale. Check odor on breath. Look for Medical Alert tags, needle tracks, and evidence of trauma.
- 2 Observe environment closely for signs of potential overdose.
- 3 THE PATIENT MUST BE ALERT and have an intact gag reflex before σal Glucose can be administered. Oral Glucose may be given as a glass of sweetened juice or Glucose, 12.5 g PO.
- 4 Blood glucose monitoring and oral glucose, dministration are restricted to EMT-B's completing the Kentucky EMT-B supplemental Curriculum and approved by the Fire Chief and MREMS.

Approved: 1 / 1/10

James C Locke / Executive Director

Approved: // I

Amputation



- 1 Administer higher concentrations if needed.
- 2 Use pressure point proximal to site if direct pressure does not control the bleeding.
- 3 Notify responding ALS unit. A tourniquet may be indicated.
- 4 Keep severed part moist. Do not allow to soak in a solution.
- 5 If transport is delayed or otherwise extensive (entrapped patient, etc.), consider air transport and/or transporting severed part before patient, to allow early examination and surgical preparation for reimplantation.
- 6 History: note time of amputation, mechanism involved, current medications, bleeding disorders. Exam: note anatomical location of amputation. Estimate total blood lo ss.
- 7 Do not delay transport at any time in this protocol.

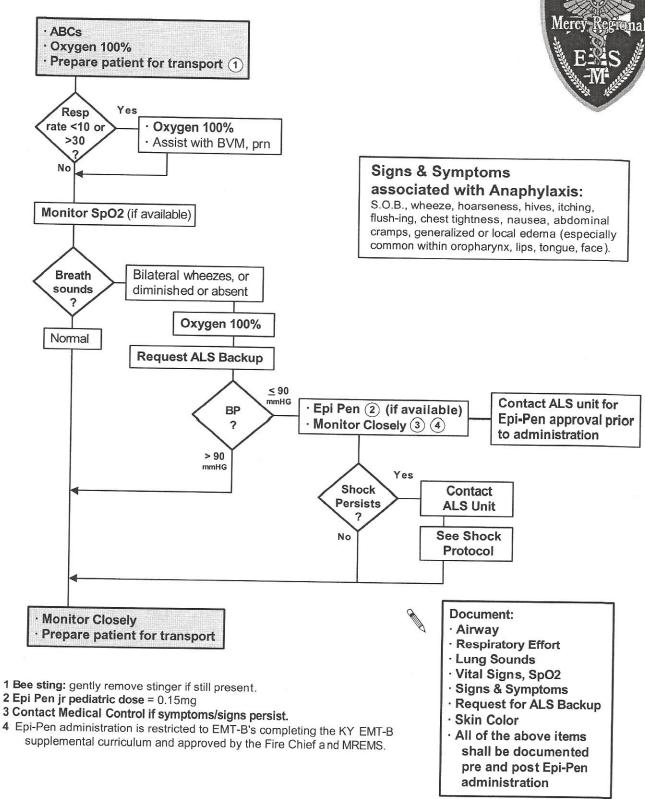
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Irvin Smith / Medical Director

Anaphylaxis



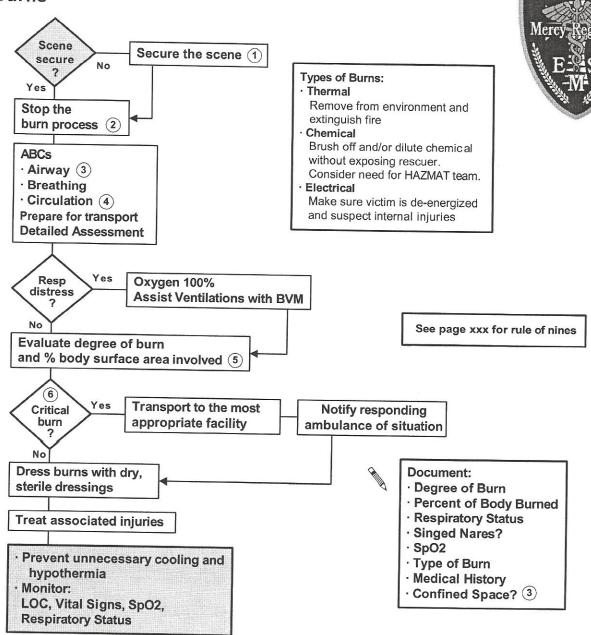
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Burns



- 1 Make sure rescuers can safely help the victim.
- 2 Remove clothes, flood with water ONLY if flames or smoldering is present.
- 3 Consider **Carbon Monoxide** poisoning if victim was within a confined space. If p otential for CO poisoning exists administer **Oxygen** 100%.
- 4 If shock is present consider underlying causes. Request ALS backup.
- 5 Note: the patient's palm represents 1% of their BSA. Use this as a reference.
- 6 Critical burn = · any degree 25% BSA · 3rd degree > 10% · respiratory injury involvement of face, hands, feet, or genitalia · circumferential burns · associated injuries · electrical or deep chemical burns · underlying medical history (cardiac, diabetes) · age < 10 or > 50 years.

Approved: 10 / 1 / 10 James C Locke / Executive Director	Approved: I I I I I I I I I I I I I I I I I I I
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Chest Pain

Suspected Ischemic Chest Pain

- · ABCs · Oxygen 4 LPM NC ① · Transport ASAP ②
- · SpO2 (if available)
- · Vital Signs
- · Obtain Medical History
- Position of Comfort
- · Reassurance
- · Assist patient with NTG adminstration. (3)





Document:

- · ABCs
- · Medical History
- · Signs & Symptoms
- · Quality of Pulses
- · SpO2, VS
- · Glasgow Coma Scale
- · Color, Diaphoresis
- · Response to Treatment

1 Oxygen: adjust flow rate & route of administration as ne eded. Consider hypoxic drive in COPD and degree of respiratory effort. Non-COPD patients should be able to maintain SpO2 of 97% or higher. Increase oxygen concentration if SaO2 is low.

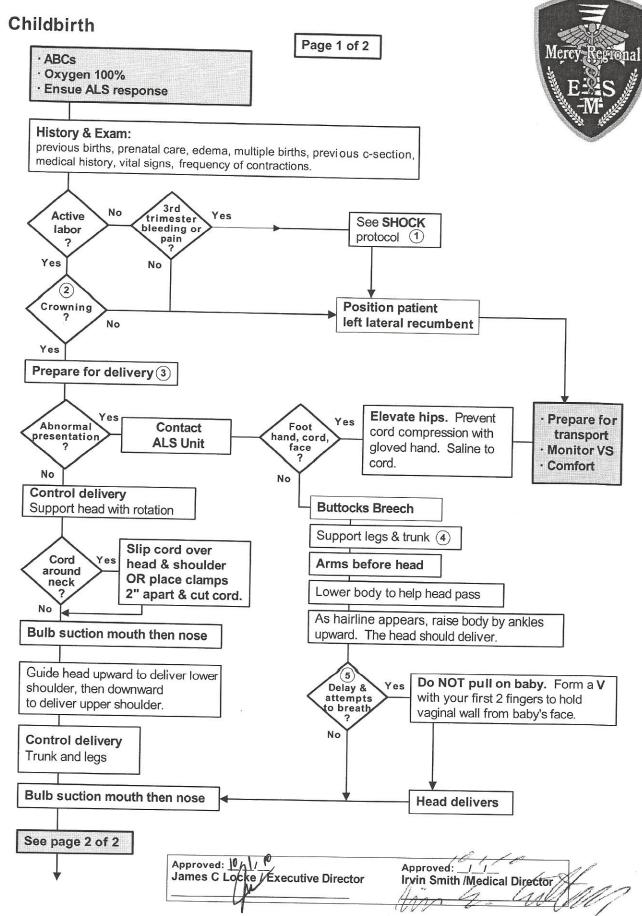
2 If the patient becomes unresponsive, apply Automatic External Defibrillator.

3 NTG administration is restricted to EMT-B's completing the KY EMT'B supplemental curriculum and approved by the Fire Chief and MREMS.

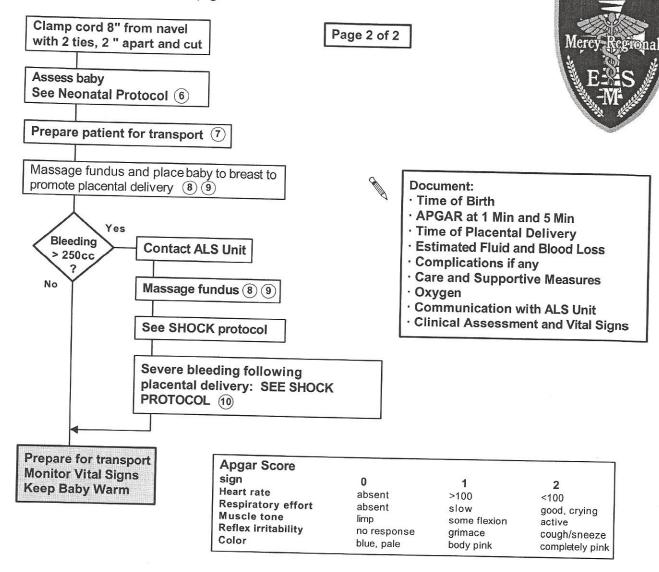
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Childbirth continued from page two



- 1 Do NOT preform a digital exam. Possible placental previa or abruptio placenta.
- 2 Crowning may first appear during a contraction. Look for crowning between and during contractions. NO digital exams. Do NOT allow anyone to perform a digital exam.
- 3 Deliver baby on the scene ONLY if delivery is eminent.
- 4 Do NOT pull on baby.
- 5 If the babies head does not deliver and the baby begins to breath with its face pressed against the vaginal wall, place a gloved hand in the vagina with the palm toward the babies face. Form a "V" with the index and middle finger on either side of the infant's nose and push the vaginal wall away from the infant's face to allow unrestricted respiration.
- 6 Note exact time of birth.
- 7 Keep baby warm. Dry surface, cover head and protect from falls.
- 8 Massage fundus: gentle but firm, intermittent massage.
- 9 Do NOT pull on cord.
- 10 SEE SHOCK PROTOCOL

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Croup & Epiglotitis

Approach the patient in a calm, reassuring fashion. Allow the child to adopt position of comfort. Leave child parent's lap if possible. (1)



Maintain Airway
Oxygen 2

Yes
Open & Maintain Airway
Oxygen 100% bag-valve-mask

Notify responding
ALS Unit

- · Prepare for transport
- · Monitor closely
- · Notify receiving facility ASAP
- Contact responding ALS Unit if any questions or complications arise



Epiglotitis:

- · Age usually > 2 years
- · Onset rapid
- · Signs & Symptoms
 Fever, often look sick. Air
 hunger, nasal flaring,
 restlessness, drooling,
 retractions. Wants to sit
 upright.

Croup:

- · Age 6 months 3 years
- · Onset gradual
- · Signs & Symptoms
 Often preceded by an
 upper respiratory
 infection. Worse at night.
 May or may not have a
 fever. Condition varies
 from mild to severe.



- **ABCs**
- · Detailed Assessment
- · Vital Signs
- · SpO2
- · Glasgow Coma Scale
- · Lung Sounds
- · Color
- · Treatment
- · Response to Treatment
- · Communication with

ALS Unit

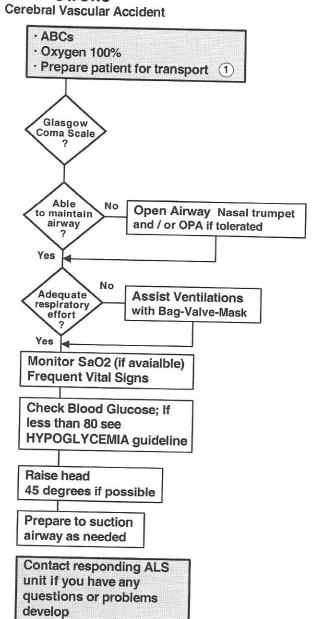
1 Avoid startling the patient. Anxiety may exacerbate the child's condition.

2 Consider blow-by Oxygen. Pediatric patients rarely tolerate a mask and may become more apprehensive or excited with its use. The care provider, (or parent), can hold the mask near the patient's face so that the oxygen blows by the face and can be inspired.

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CVA Stroke







- · ABCs
- · Detailed Assessment
- · Vital Signs
- · SpO2 (if available)
- · Glasgow Coma Scale
- · Motor Function
- · Neurologic Deficits
- · Lung Sounds
- · Skin Color
- · Treatment
- · Response to Treatment
- · Communication with responding ambulance

Glasgow C	Coma Scale	
Eye	Spontaneous	4
Opening	To Voice	3
	To Pain	2
	None	1
Best	Oriented	5
Verbal	Confused	4
Response	Inappropriate words	3
	Incomprehensible words	2
	None	1
Best	Obeys Commands	6
Motor	Localizes Pain	5
Response	Withdraws (Pain)	4
	Flexion	3
	Extension	
12		

The Cincinnati Prehospital Stroke Scale

Facial Droop (have patient show teeth or smile)

- Normal--both sides of face move equally
- Abnormal--one side does not move as well as the other

Arm Drift (patient closes eyes and holds arms out):

- Normal--both arms move the same OR both arms do not move at all
- Abnormal--one arm does not move OR one arm drifts down

Speech (have the patient say "You can't teach old dogs new tricks"):

- · Normal--patient uses correct words with no slurring
- · Abnormal--patient slurs words, uses inappropriate words, or is unable to speak

1 Time in the field must be minimized.

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Director The Config

Death in the Field

Withholding life support measures

Life support may be withheld if any of the following exists:

- · Patient has a valid KY Pre-hospital DNR
- Decapitation
- · Rigormortis in a warm environment
- · Dependent lividity:

venous pooling in dependent body parts



Contact responding ALS Unit MANDATORY

All hypothermic patients, victims of electrocution, lightning strike, drowning, and pediatric patients should receive resuscitation measures and prepare patient for transportion

DO NOT COVER THE BODY WITH A SHEET Contact the appropriate authorities.

Secure the scene:

Do not remove personal property from the body. Do not disturb the scene or leave the body unattended. May partition off an area to protect from bystanders/onlookers.

Assess need for pastoral services for family/friends if present. Contact appropriate authorities as needed.

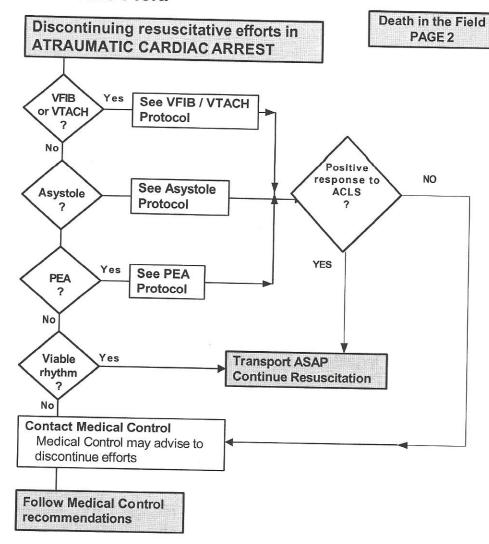
Complete your scene report.
Relinquish scene control to the responding ALS unit.



Document:

- · All Patient Care/Assessment
- · Communication with Medical Control
- · Time Medical Examiner Notified
- · DNR Status if Applicable

Death in the Field



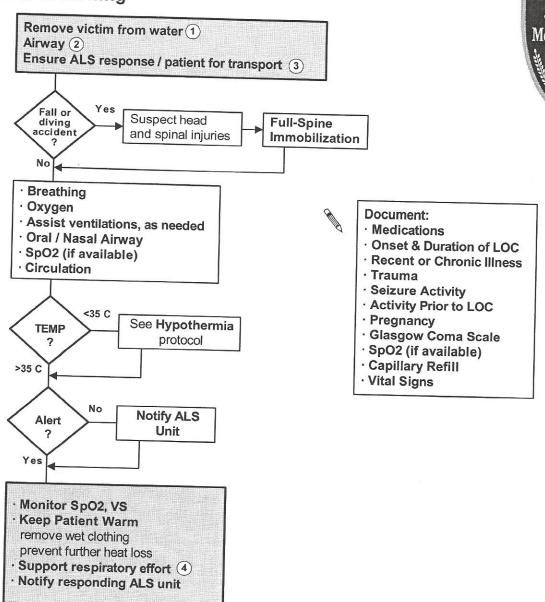
NOTE: MEDICAL CONTROL MUST BE CONTACTED AND APPROVE DISCONTINUATION OF **RESUSCITATION EFFORTS**

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DEATH IN THE FIELD

DISCONTINUING RESUSCITATIVE MEASURES

Near Drowning



- 1 To be performed by a trained rescuer with appropriate equipment.
- 2 Ventilation should be initiated while the patient is being rescued.
- 3 All near-drowning victims should be examined by a physician.
- 4 Observe for Pulmonary Edema.

Glasgow Coma Scale

Adult & Children

Glasgow Co	oma Scale	
Eye Opening	Spontaneous To Voice To Pain None	4 3 2 1
Best Verbal Response	Oriented Confused Inappropriate words Incomprehensible words None	5 4 3 2 1
Best Motor Response	Obeys Commands Localizes Pain Withdraws (Pain) Flexion Extension None	6 5 4 3 2



Infant & Toddler

Glasgow C	oma Scale	
Eye	Spontaneous	4
Opening	To Voice	3
11 144	To Pain	2
	None	1
Best	Smiles, Interacts	5
Verbal	Consolable	4
Response	Cries to Pain	3
	Moans to Pain	2
	None	1
Best	Normal Movement	6
Motor	Localizes Pain	5
Response	Withdraws (Pain)	4
	Flexion	3
	Extension	2
	None	1

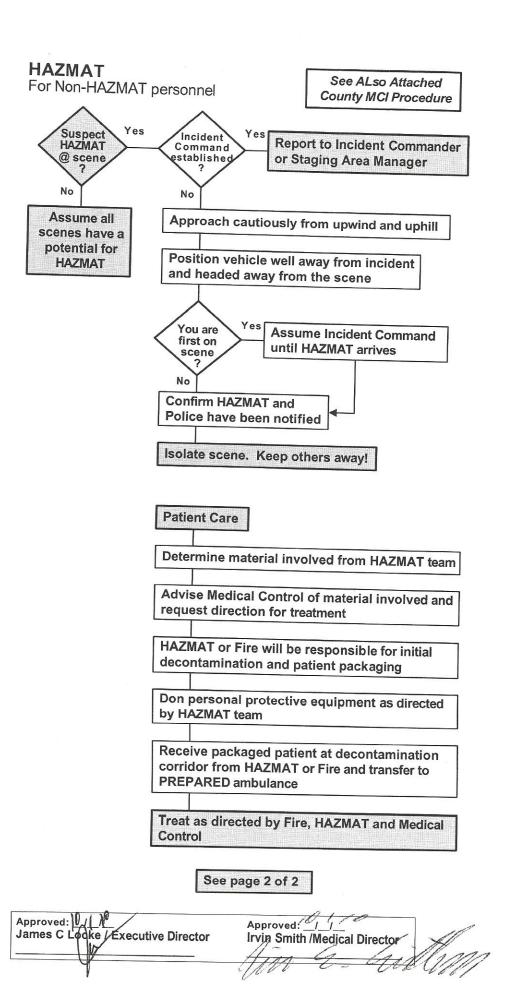
Glasgow Coma Scale

Assess the patient in each category (eye opening, best verbal response, best motor response) and add the scores from each category. *Example:* if the patient's BEST verbal response is a string of muffled, incomprehensible words give them a 2 for that category. The patient's Glasgow Coma Scale will be the total of all three categories. A Glasgow Coma Scale of 7 indicates coma.

Reassess the patient's score frequently, record each observation and the time it was made.

Approved: 1/1/
James C Locke Executive Director

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Mercy Regrenal

E-S-S

HAZMAT

For Non-HAZMAT personnel

Page 2 of 2

Ambulance Preparation

Prepare ambulance as directed by HAZMAT or Fire

Remove all non-essential supplies/equipment

Place patient in a body bag and enclose up to the patients head.



Transport

Old protocols calling for ambulance draping are time consuming and ineffective

Notify receiving facility: provide relevant information and ask where they would like you to park

Do NOT enter the ER without specific direction from the ER staff

After transferring the patient to ER staff, return to the ambulance and remain inside. Do not move the vehicle or allow others inside.

Contact Incident Commander to determine how and where the vehicle should be decontaminated.

EMS Personnel Exposure

If exposed at scene: remove yourself from further contamination and report incident to Safety Officer or HAZMAT and wait for direction.

If exposed enroute to the hospital: inform ER and await direction.

After decontamination and treatment, receive clearance from HAZMAT Group Supervisor or ER MD AND your supervisor before returning to duty.

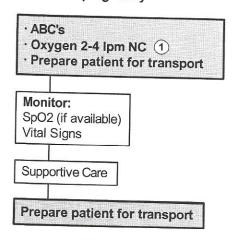
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Document:

- · Patient Care
- · Response to Treatment
- · Hazardous Material
- · Communication with ER, Medical Control, HAZMAT
- · Measures Taken to Limit Exposure
- · Decontamination

 Approved: __/___
Irvin Smith /Medical Director

Hypertension not related to pregnancy





Hypertensive Crisis =
Systolic BP ≥ 200 mmHG
Diastolic BP ≥ 130 mmHG
and symptoms of end organ
compromise, ie., congestive
heart failure, pulmonary edema,
unstable angina, changes in
mental status, CNS changes,



Document:

renal disease.

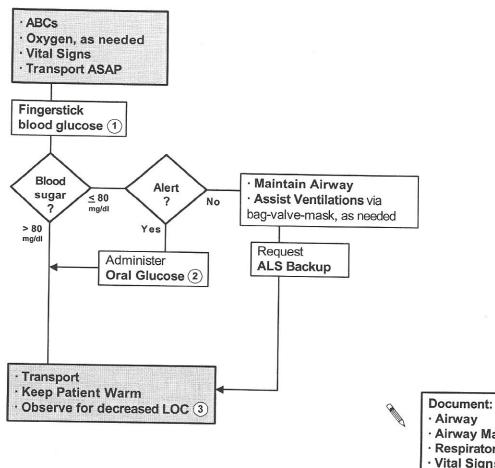
- · Airway
- · Vital Signs, SpO2
- · Signs & Symptoms
- · Treatment
- · Glasgow Coma Scale
- · Communication with ALS unit

1 Adjust oxygen concentration to patient needs. Consider hypoxic drive in COPD.

Approved: VA / Dispersion Approved: VA / Dis

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Hypoglycemia





· Airway Management

· Respiratory Effort

· Vital Signs, SpO2

· Treatment

· Signs & Symptoms

· LOC

· Blood Sugar

Glasgow Coma Scale

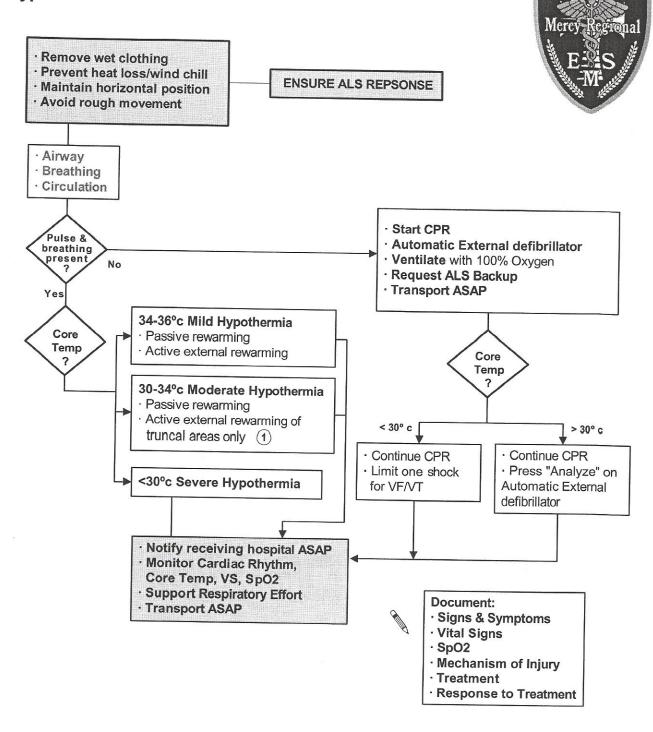
1 Accu-Check Testing is restricted to EMT-B's completing the KY EMT-B supplemental curriculum and approved by the Fire Chief and MREMS.

2 Full glass of sweetened juice or Glucose Oral Paste 12.5g PO. May repeat dose if condition improves or if a second fingerstick blood glucose check remains below 80 mg/dl. Must have an intact gag reflex.

3 Observe for decreased LOC, focal neurological findings, and hypothermia.

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Hypothermia



1 Methods include: electrical or charcoal warming devices, hot water baths, heating pads, radiant heat sources and warming beds, forced air warming devices.

Neonatal Resuscitation KEEP BABY WARM **Dry Thoroughly** Remove wet linen **ENSURE ALS RESPONSE** Suction MOUTH THEN NOSE Provide tactile stimuli (optional) None or gasping Resp effort Spontaneous **Positive Pressure** < 100 Heart Ventilations BVMask rate Oxygen 100% (1) > 100 HR Blue HR Skin HR < 60 60-100 color > 100 Pink or Continue Oxygen Watch for peripheral Yes HR Ventilations Continue spontaneous cyanosis increasing Ventilations ventilations Chest (2) **Monitor Closely** Compressions No Discontinue Continue ventilatory Ventilations assistance when spontaneous If HR < 80, Chest ventilations

Compressions

1 Positive pressure ventilations at 30 breaths per minute

KEEP BABY WARM Transport ASAP

Notify receiving facility ASAP

Monitor SpO2, LOC, respiratory status

2 Compression / ventilation ratio is 1/3 with 30 ventilations and 90 compressions for a total of 120 events per minute



begin

Overdose and Poisoning General Management

SCENE SECURE PRIOR TO ENTRY · ABCs · Oxygen · Assist ventilations, prn Prepare patient for transport · Detailed Assessment (1) Assess level of consciousness 23 No See Altered Mental Status / **ALERT** COMA Protocol Contact the responding ALS Unit or Poison Control for specific management and treatment Maintain Airway Monitor for: Seizure, decreased LOC.



Internal Contamination:

- · What was ingested?
- · Time of consumption ?
- · Amount consumed?
- · Past medical history?

External Contamination:

- · Protect self and crew
- · Remove contaminated clothing
- · Flush contaminated skin and eyes with copious amount of water (4)



Document:

- · Type of Ingestion, Poisoning
- · Signs & Symptoms
- · Treatment
- · Clinical Response to

Treatment

- · Vital Signs, SpO2
- · Airway Management
- · Conversations with Medical Control and/or Poison Control

	oma ocale	
Eye	Spontaneous	4
Opening	To Voice	3
	To Pain	2
l	None	1
Best	Oriented	5
Verbal	Confused	4
Response	Inappropriate words	3
	Incomprehensible words	2
	None	1
Best	Obeys Commands	6
Motor	Localizes Pain	5
Response	Withdraws (Pain)	4
	Flexion	3
	Extension	2
	None	1

confusion, vomiting,

Glasgow Coma Scale

1 Observe environment closely for signs of potential overdose.

2 Pupillary response may indicate type of overdose/poisoning; pinpoint pupils: narcotics, opiates, phenothiazines, cholinergics; dilated pupils: trycyclics, anticholinergics, cocaine, m ethamphetamine.

3 Determine and document Glasgow Coma Scale.

4 Exceptions include yet are not limited to: phosphorous, sodium metal, Contact Medical Control.

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Overdose: Barbiturate

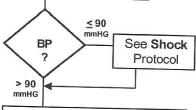
SCENE SECURE PRIOR TO ENTRY

- · ABCs
- ·Oxygen
- · Assist ventilations, prn
- · Oral/Nasal Airway
- · Prepare patient for transport

ENSURE ALS RESPONSE







Support Respiratory Effort

Maintain Airway Monitor for Signs & Symptoms highlighted below



Document:

- · Signs & Symptoms
- · Treatment
- · Clinical Response to Treatment
- · Vital Signs, SpO2 (if available)
- · Respiratory Status
- · Glasgow Coma Scale
- · Airway Management
- · Conversations with ALS unit and/or Poison Control

Potential Signs & Symptoms of Barbiturate Overdose:

CNS and respiratory depression, confusion, stupor, coma, ataxia, vertigo, headache, hypotension, cardiovascular collapse, hypothermia, hyperthermia.

Barbiturate Possibilities: Butisol. mebenal, nembutal. seconal

Glasgow Coma Scale

1		- 20
Eye	Spontaneous	4
Opening	To Voice	3
	To Pain	2
	None	1
Best	Oriented	5
Verbal	Confused	4
Response	Inappropriate words	3
	Incomprehensible words	2
	None	1
Best	Obeys Commands	6
Motor	Localizes Pain	5
Response	Withdraws (Pain)	4
	Flexion	3
	Extension	2
	None	1

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Approved: _/_/_
Irvin Smith /Medical Director



Overdose: Carbon Monoxide Poisoning

SCENE SECURE PRIOR TO ENTRY

- · ABCs
- · Oxygen 100% NRB Mask
- · Assist ventilations, prn
- · Prepare for transport





· Detailed Assessment

· Assess Level of Consciousness

Maintain Airway Support Respiratory Effort

Potential Signs & Symptoms of Carbon Monoxide Poisoning:

Mild headache,

dyspnea on mild exertion,

irritability,

fatigue,

nausea / vomiting,

confusion,

ataxia,

syncope,

seizures,

incontinence,

respiratory arrest,

skin may be bright red in some cases.



Document:

- · Signs & Symptoms
- · Treatment
- · Clinical Response to Treatment
- · Vital Signs, SpO2
- · Cardiac Rhythm
- · Skin Color
- · Respiratory Status
- · Airway Management
- Conversations with ALS unit and/or Poison Control

Glasgow Coma Scale Eye Spontaneous Opening To Voice 3 To Pain 2 None Best Oriented 5 Verbal Confused Response Inappropriate words 3 Incomprehensible words None Best Obeys Commands Motor Localizes Pain 5 Response Withdraws (Pain) 4 Flexion 3 Extension None

Approved: 1 / / / / / James C Locke / Executive Director

Approved: _ / _ / _ Irvin Smith /Medical Director

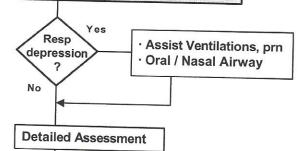
Overdose: Narcotic

SCENE SECURE PRIOR TO ENTRY

- · ABCs
- Oxygen 100%
- · Prepare patient for transport

Ensure ALS Response





Maintain Airway Support Respiratory Effort **Keep Patient Warm** Prepare patient for transport See Potential Signs & Symptoms below

Potential Signs & Symptoms of Narcotic Overdose:

CNS & respiratory depression, drowsiness, nausea, vomiting, pinpoint pupils, coma, cyanosis, bradycardia.



Document:

- · Airway
- · Airway Management
- · Respiratory Effort
- · Detailed Assessment
- · Treatment
- · Clinical Response to Treatment
- · Vital Signs, SpO2

Glasgow Coma Scale

l .		
Eye	Spontaneous	4
Opening	To Voice	3
	To Pain	2
	None	1
Best	Oriented	5
Verbal	Confused	4
Response	Inappropriate words	3
	incomprehensible words	2
	None	1
Best	Obeys Commands	6
Motor	Localizes Pain	5
Response	Withdraws (Pain)	4
	Flexion	3
	Extension	2
	None	1

Approved: 1'/ Irvin Smith /Medical Director

Overdose: Organophosphate Exposure

SCENE SAFETY and HAZ-MAT CONTRAINDICATIONS PRIOR TO ENTRY OR PATIENT CONTACT

- · ABCs
- · Oxygen 100% NRB Mask
- · Assist ventilations, prn
- . Brush off excess powder 123
- . Remove contaminated clothing
- . Decon with water flushes
- · Prepare patient for transport
- · Detailed Assessment
- · Assess level of consciousness
- Supportive care

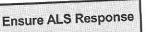
Maintain Airway Support Respiratory Effort

Potential Signs & Symptoms of Organophosphate Exposure:

SLUD:

Salivation, Lacrimation, Urination, Defecation

Examples of Organophosphate Poisoning: Malathion, Proban, Diazinon, other Lawn & Garden pesticides





Document:

- · Signs & Symptoms
- · Treatment
- · Clinical Response to Treatment
- · Vital Signs, SpO2
- · Respiratory Status
- · Airway Management
- · Mechanism of Exposure
- · Conversations with Medical Control and/or Poison Control

1 Brush off excess powder

2 Remove contaminated clothing

3 Decon with water flushes

Approved: James C Locke / Executive Director

Approved: Irvin Smith /Medical Director

Overdose: Tricyclic

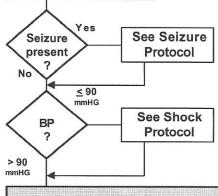
SCENE SECURE PRIOR TO ENTRY

- · ABCs
- · Oxygen
- · Assist Ventilations, prn
- * Oral/Nasal Airway
- · Prepare patient for transport

Ensure ALS Response



Detailed Assessment



Maintain Airway
Support Respiratory Effort
Keep Patient Warm
Prepare for transport
See Potential Signs & SX below

Tricyclics include: (brand names)
Amitriptyline (amitril, elavil, endep, emitrip, enovil, etrafon, li mbitrol, triavil).
Amoxapin (asendin). Desipramine (norpamin). Doxepin (sinaquan).
Imipramine (tofranil). Maprotiline (ludiomil). Nortriptyline (aventyl, pamelor). Protriptyline (vivactil).
Trimipramine (surmontil).



Document:

- · Airway
- · Airway Management
- · Signs & Symptoms
- · Treatment
- · Response to Treatment
- · Vital Signs, SpO2
- · Glasgow Coma Scale

Potential Signs & Symptoms of Tricyclic Overdose:

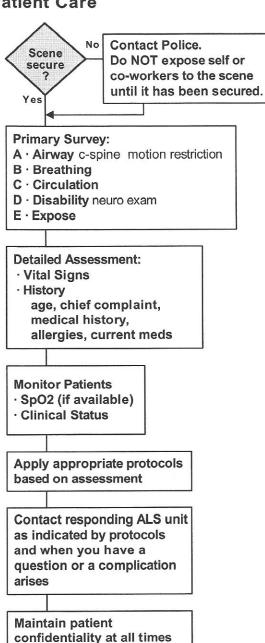
Tachycardia,
Decreased LOC,
Seizures,
Cardiovascular collapse.

Glasgow Co	ma Scale	
Eye	Spontaneous	
Opening	To Voice	
	To Pain	
	None	
Best	Oriented	
Verbal	Confused	
Response	Inappropriate words	
	Incomprehensible words None	
Best	Obeys Commands	_
Motor	Localizes Pain	
Response	Withdraws (Pain)	
	Flexion	
	Extension	
	None	

 Approved: __/__ Irvin Smith /Medical Director

Hann

Patient Care



ENSURE ALS REPSONSE



Document:

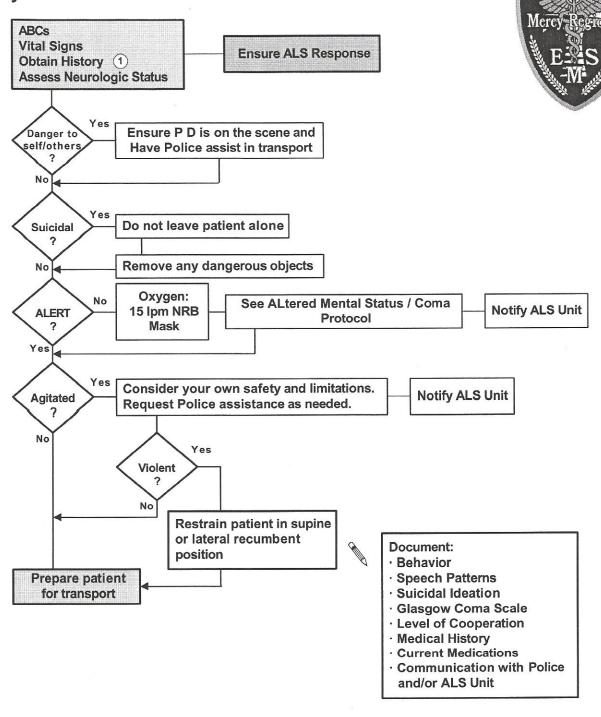
- · ABCs
- · Detailed Assessment
- · Vital Signs
- · SpO2 (if available)
- Neurologic Findings
- · Glasgow Coma Scale
- · Medical History
- · Current Medications
- · Allergies
- · Treatment Prior to Your arrival
- · Treatment You Provide
- · Response to Treatment
- · Communication with ALS unit

Approved: Approved: Approved: Executive Director Irvi

ENSURE ALS REPSONSE

May

Psychiatric & Behavioral Disorders



1 Note: Bizarre behavior, abrupt change in behavior, suicidal ideation, possible drug or alcohol ingestion, history of diabetes, etc. Look for Medic Alert tag.



Respiratory Distress · Airway open & maintain Oxygen (1) Breathing (2) Assist Ventilations as needed Oral/Nasal Airway Monitor SpO2 (if available) · Circulation Possible causes: Prepare for transport · PE · Pneumonia · Cardiac Failure - COPD · Asthma · Anxiety Breath · Bronchitis · FBO sounds **RALES** WHEEZE CLEAR Yes Consider Yes Consider Unilateral Decreased Unilateral Pneumonia PE, FBO No No No Consider Consider Pneumonia, Pneumothorax 4 CHF (5) Contact **Patient Assisted** Responding **Beta Agonist** ≤ 90 **ALS Unit** Inhaler 6 nmHG See SHOCK BP protocol (Medical Directo > 90 mmHG ≤ 90 Consider PE or AMI. BP See SHOCK protocol. > 90 Maintain Airway Support Ventilations Monitor SpO2, LOC ocke / Executive Director Prepare patient for transport 1 COPD patients often use their hypoxic drive. In these cases expect & accept SpO2 readings < 90 and > 85%. 2 Notify ALS Unit if: ventilations need to be assisted · decreased LOC · SpO2 < 90% despite therapy · respiratory rate < 10 > 29 patient responds with single word phrases, obvious signs of fatigue use of accessory muscles, or on your discretion. 3 Wheeze may be caused by: CHF, PE, ASTHMA, aspiration. 4 Consider Tension Pneumothorax. Request ALS Backup as needed. 5 Signs/symptoms often seen with Congestive Heart Failure are: pulmonary edema; pink, frothy sputum; shortness of breath; shallow, rapid breaths; patient prefers to sit upright; distended neck veins; rapid heart rate; Approved: generalized edema (often seen within feet/ankles); agitation; on auscultation you may hear rales and/or wheeze. 6 Beta agonist inhaler administration is restricted to EMT-B's completing the KY EMT-B supplemental protocols and approved by the Fire Chief and MREMS.

Seizure

- Airway
Jaw Thrust/Chin Lift
Consider Nasopharyngeal Airway
C-Spine precautions as needed
- Breathing
Oxygen 100%
- Circulation

Mercy Regronal

E.S.S

Protect patient from injury during and after seizure. Place in lateral recumbent position if trauma absent. No Insert OPA Maintains Gag reflex Open Airway oropharyngeal airway 1 Airway intact Yes Yes Assist Ventilations, as needed (2) If Blood Sugar is less than 80, refer to Check Hypoglycemia guideline (3) Blood Şugar Remove excess clothing. Yes move to a cooler location, Elevated cold packs to groin, axilla, Temp and neck. Document: · ABCs · Activity during seizure · Prepare patient for transport · Duration of seizure · Anticipate additional seizures · Post Ictal Phase Monitor: Vital Signs, SpO2, · Vital Signs/ Blood sugar Respiratory Status, LOC · SpO2 · Glasgow Coma Scale

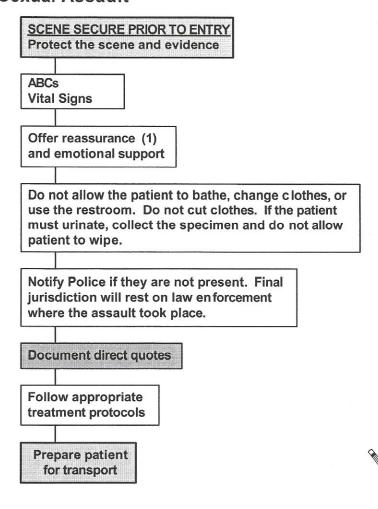
· Lung Sounds · Color · Treatment

 Response to treatment
 Communication with Medical Control

- 1 Do NOT attempt to insert an OPA (oropharyngeal airway) during a seizure. NOTE: most post-ictal patients do not need an OPA. If an OPA is used, be prepared to remove OPA as consciousness returns. Consider a nasopharyngeal (trumpet) airway.
- 2 Ventilatory assistance may be required yet most post-ictal patients do NOT need assistance.
- 3 Follow Hypoglycemia guideline. Patient must be conscious to recieve oral glucose or glucose containing solution.

Approved: __/_/_/
Iryin.Smith /Medical Director

Sexual Assault





Document:

- · ABCs
- · Vital Signs
- · Direct Quotes
- · Chain of Evidence
- · Communication with

Police

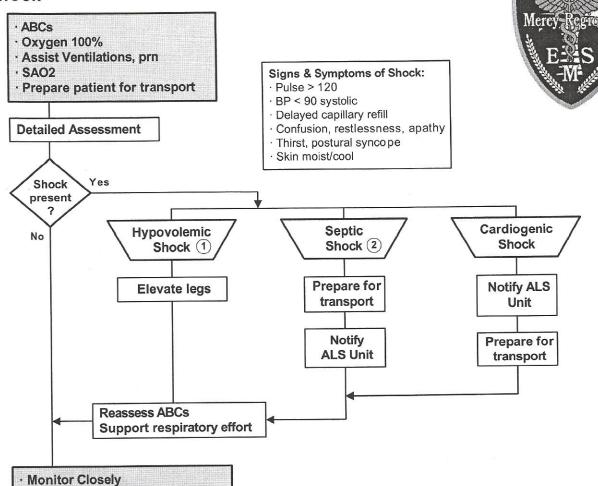
1. Make a effort to have provider of same sex with patient if possible.

Approved: 191 **Executive Director** James C Locl

Approved:



Shock



1 See trauma protocols if appropriate. Control external bleeding.

Keep Patient Warm

Notify responding ALS Unit

2 Septic shock in a child is a medical emergency. Expedite transport!

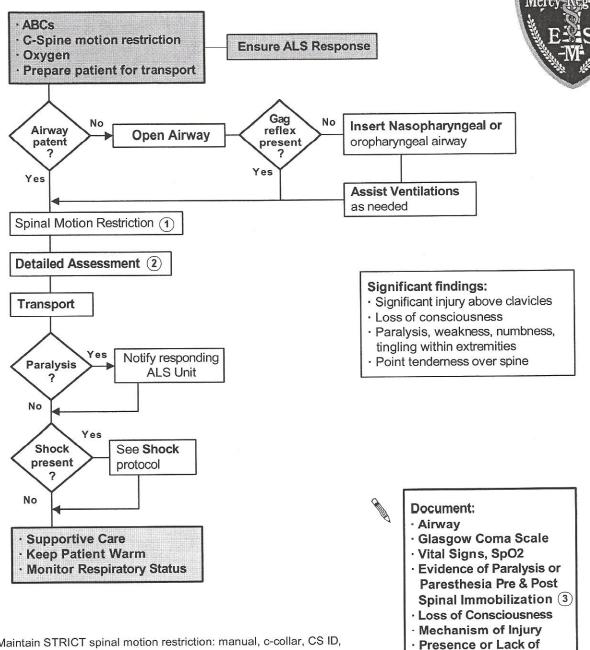
Document:

- · Airway
- · Respiratory Effort
- · Lung Sounds
- · Quality of Pulses
- · Signs & Symptoms of Shock
- · Vital Signs, SpO2
- · Glasgow Coma Scale
- · Skin Color, Temperature
- · Cardiac Rhythm
- · Response to Fluid Bolus
- · Core Temp in Septic Shock

Approved: Description | Approved: | Approved: | Approved: | Irvin Smith / Medical Director | Irv

Spinal Cord Injury

Suspected



- 1 Maintain STRICT spinal motion restriction: manual, c-collar, CS ID, LSB, Straps.
- 2 Secondary Survey to include frequent neurological checks, CMS (circulation, motor, sensation). Determine level of injury-dermato me
- 3 Parasthesia numbness, tingling sensation

James C Locke / Executive Director

Approved:

Approved: Irvin Smith /Medical Director

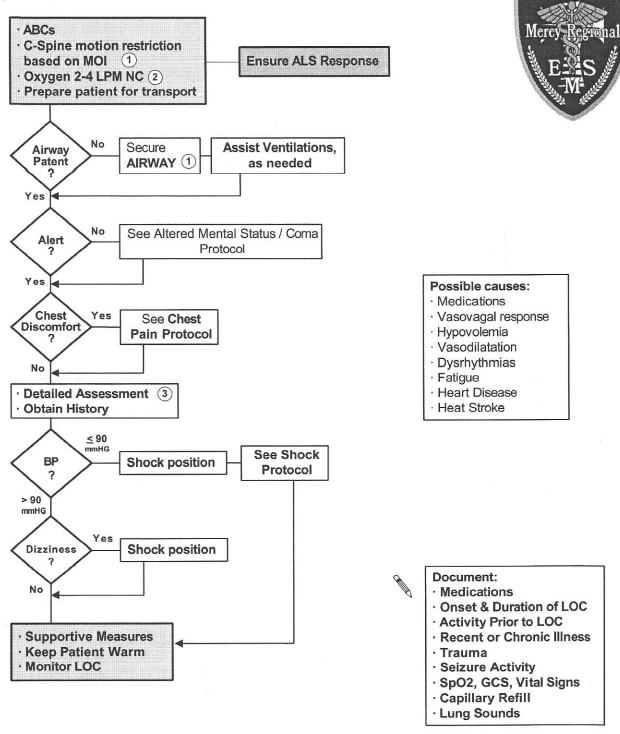
Tenderness Over Spine

· Treatment

START Triage Able Minor to walk No No Resp Position airway present Yes Patient No No Child < 12 y/o ? Adult? maintains airway Yes Yes Open Airway and Give 2 Deceased **Immediate** Rescue Breaths over 30/min Resp **Immediate** rate **Breathing Resumes?** under Yes No 30/min <u>Immediate</u> Deceased Perfusion > 2 Radial No sec Control Capillary Immediate pulse Bleeding refill presen Yes < 2 sec **Mental Status** follows No simple **Immediate** ommands Delayed

The clinician should view this protocol as an adjunct to your systems disaster plan ONLY if START Triage is a part of that plan. This protocol does not constitute or attempt to substitute for a disaster plan and should only be used in conjunction with a system-wide response, approved in your area.

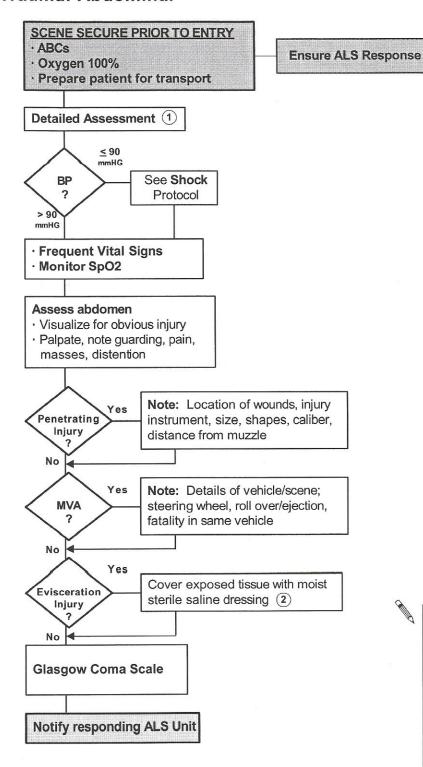
Syncope

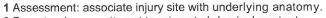


- 1 Establish spinal motion restriction if associated with fall or trauma.
- 2 Higher concentration of oxygen may be indicated. Consider hypoxic drive in COPD.
- 3 Monitor SpO2, Capillary Refill, Glasgow Coma Scale and Vital Signs.



Trauma: Abdominal





2 Do not reduce or attempt to reinsert abdominal contents.

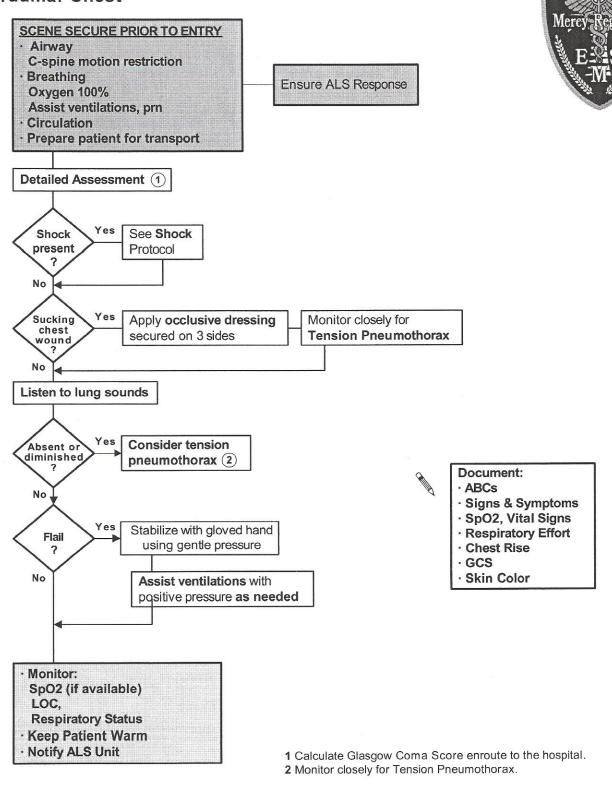


Document:

- · ABCs
- · Signs & Symptoms
- · Tenderness
- · Firmness of Abdomen
- Distention
- · Guarding
- · Mechanism of injury
- · VS, SpO2 (if available)
- · Glasgow Coma Score

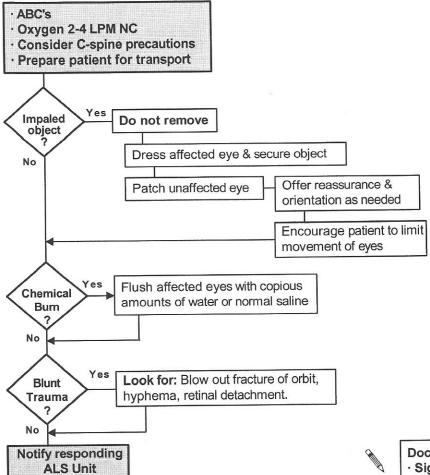
Approved! Approved: **Executive Director** Irvin Smith / Medical Director James C Lock

Trauma: Chest





Trauma: Eye Injury





Document:

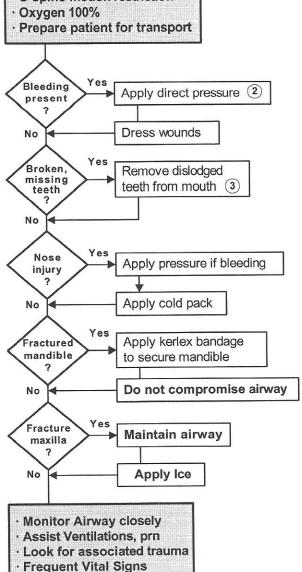
- · Signs & Symptoms
- · Appearance of eye
- · Quality, nature of pain
- Pupil, size, reaction to light
- · Treatment
- · Glasgow Coma Scale
- · Mechanism of Injury

Approved: 101/10 YOU Director

Approved: __/_/
Irvin Smith /Medical Director

Trauma: Facial

- · ABC's ①
- · C-spine motion restriction







Document:

- · Signs & Symptoms
- Airway
- · Respiratory Effort
- · SpO2 (if available)
- Pupil: Size, Reaction to Light
- · Eyes Conjugate?
- · JVD?
- · Trachea, Midline?
- · Fluid from Ears?
- · Fontanels in Infant
- · Treatment
- · Glasgow Coma Scale
- · Mechanism of Injury

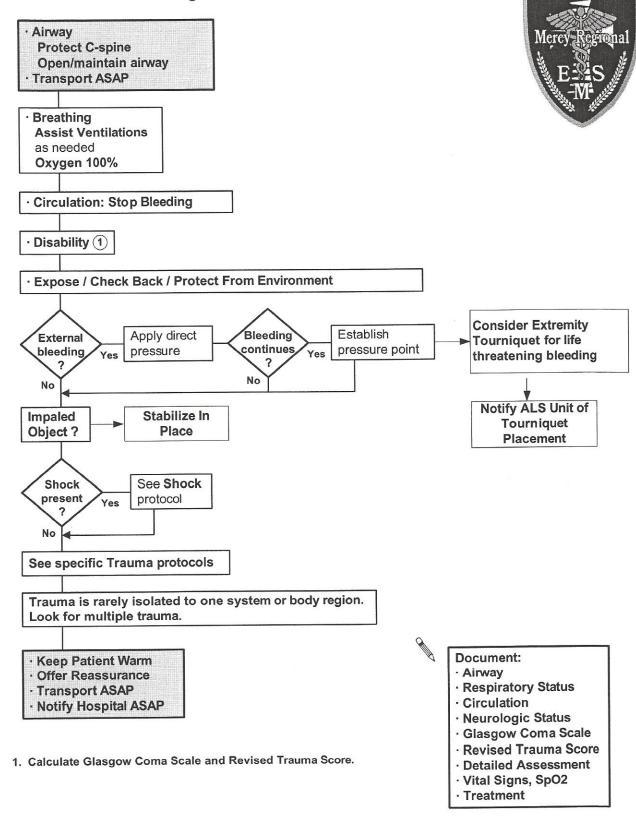
1 If the patient has airway problems, respiratory distress or is hemodynamically unstable, notify responding ALS unit.

2 Use pressure point if needed.

3 If you find an intact missing tooth pick it up by it's crown (protect root) and place in milk while enroute to the hospital.

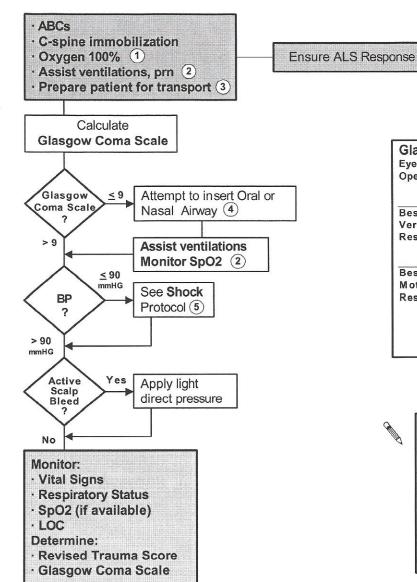
James C Locked Executive Director

Trauma: General Management



Approved: Approv

Trauma: Head Injury





Eye	Spontaneous	
Opening	To Voice	
	To Pain	
	None	
Best	Oriented	_
Verbal	Confused	
Response	Inappropriate words	10
	Incomprehensible words	12
	None	1.00
Best	Obeys Commands	
Motor	Localizes Pain	
Response	Withdraws (Pain)	
	Flexion	
	Extension	
	None	

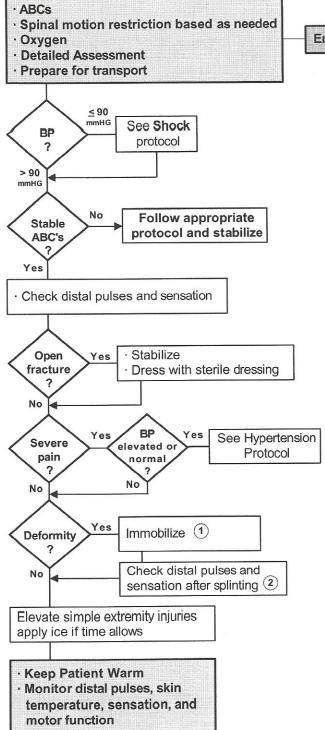


Document:

- · ABCs
- · Signs & Symptoms
- · Glasgow Coma Scale
- · SpO2, VS
- · Motor/Sensation
- · Respiratory Effort
- · Skin Color
- · Mechanism of Injury
- **Onset & Duration of LOC**
- 1 Oxygen 100% per non-rebreathable mask or bag-valve-device as needed.
- 2 Aggressive ventilatory support may be needed. If the patient's ventilations are not effective secure the patient's airway and assist ventilations.
- 3 Every head-injured patient who has had a period of unconsciousness must be evaluated at a hospital.
- 4 Insert OPA oropharyngeal airway ONLY IF gag reflex is absent. Avoid nasal airway if basal skull fracture or mid-face fracture is suspected
- 5 Isolated head injuries rarely cause shock. If shock is present look for another cause. Note: Head injury may cause shock in infants.

Approved: James C Locke Executive Director Approved Irvin Smith /Medical Director

Trauma: Orthopedic



Ensure ALS Response



Document:

- · Signs & Symptoms
- Distal Circulation, Sensation, Motor
- · Treatment
- Degree of Deformity
- · Skin Color
- · SpO2
- · Mechanism of Injury
- · Lung Sounds

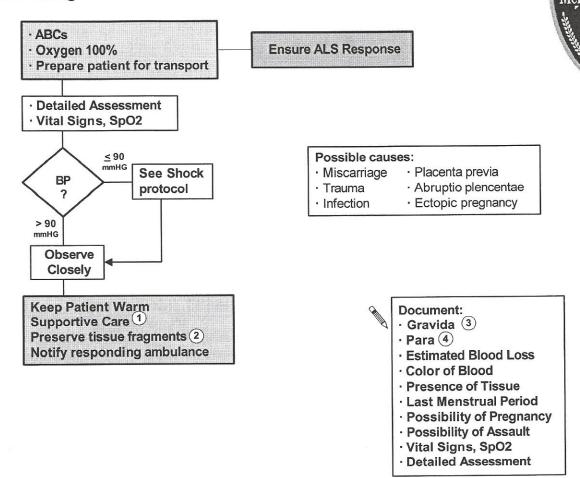
Pelvic Sling for Mechanically Unstable Pelvic Fracture:

- · Locate the greater trochantor (lateral aspect of the femural head.)
- · Place a bed sheet beneath location.
- Bring the ends of the sheet together (gently squeezing the anterior aspect of the pelvis together.)
- · Tie the sheet together.

1 Immobilize the joint above & below the injury.

2 SpO2 monitoring may help you confirm circulation in an extremety.

Vaginal Bleeding



- 1 If possibility of assault exists maintain chain of evidence. If possible, have a female attendant in the patient care area.
- 2 Collect tissue fragments and blood if present.
- **3 Gravid:** pregnant, heavy with child. Record the number of times the patient states she has been pregnant, *i.e.*, *Gravida*, *3* indicates the patient has been pregnant 3 times, including her current pregnancy if she is pregnant at the time of the exam.
- 4 Para: this is the number of live, viable births she has delivered.

Approved: D Approved: D Irvin Smith / Medical Director

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