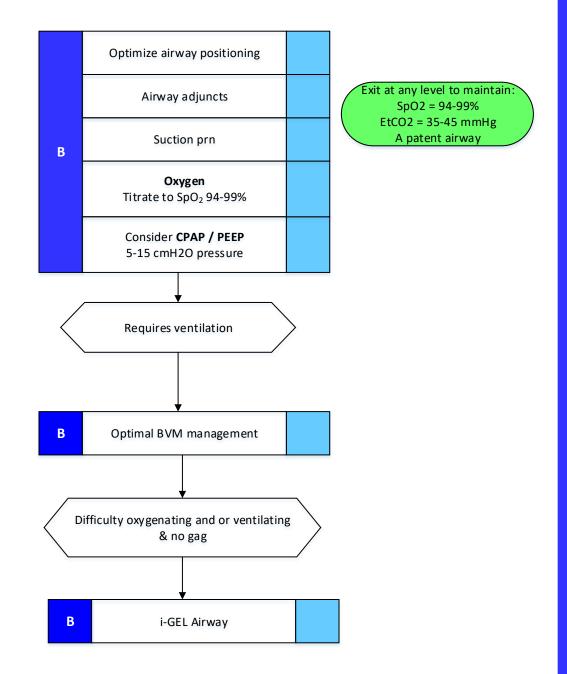
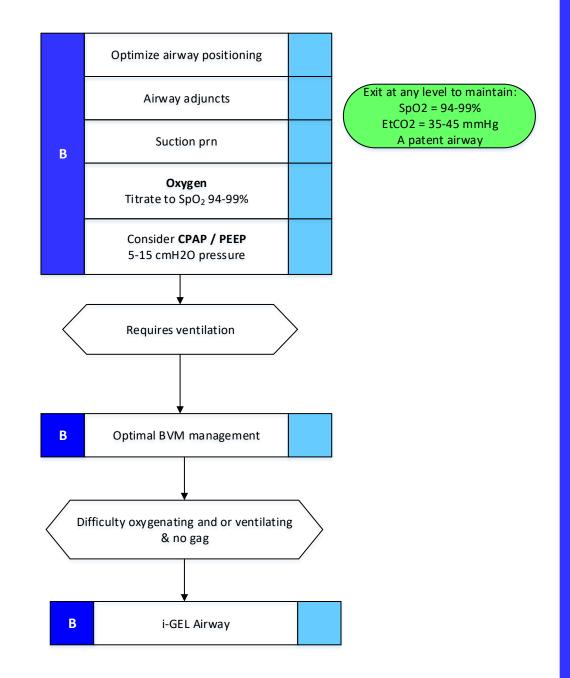
Adult Airway



IF ASSISTING IN RSI / DSI: METHODS OF CONFIRMATION PROPER ENDOTRACHEAL TUBE PLACEMENT (three methods required)

- Visualization of ETT passing through the cords into the trachea
- Waveform EtCO₂ (required)
- Improved or maintained SpO2
- Holdup with Bougie
- Auscultation of all lung fields confirm adequate lung exchange
- Absence of sounds over the epigastrium
- Bilateral & symmetrical chest wall excursion on ventilation

Pediatric Airway

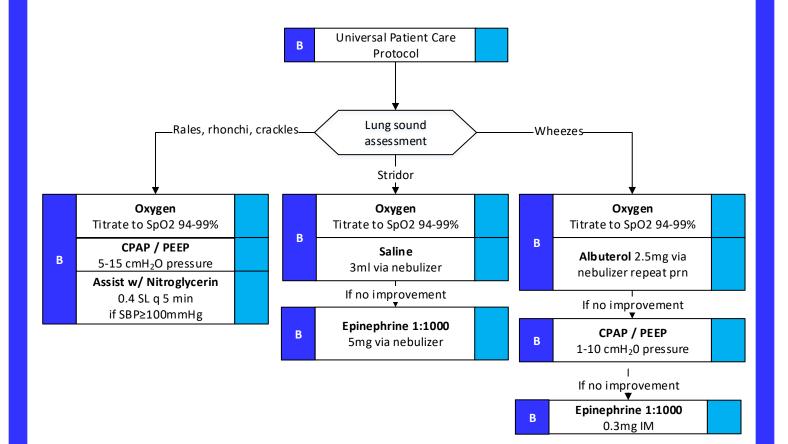


IF ASSISTING IN RSI / DSI: METHODS OF CONFIRMATION PROPER ENDOTRACHEAL TUBE PLACEMENT (three methods required)

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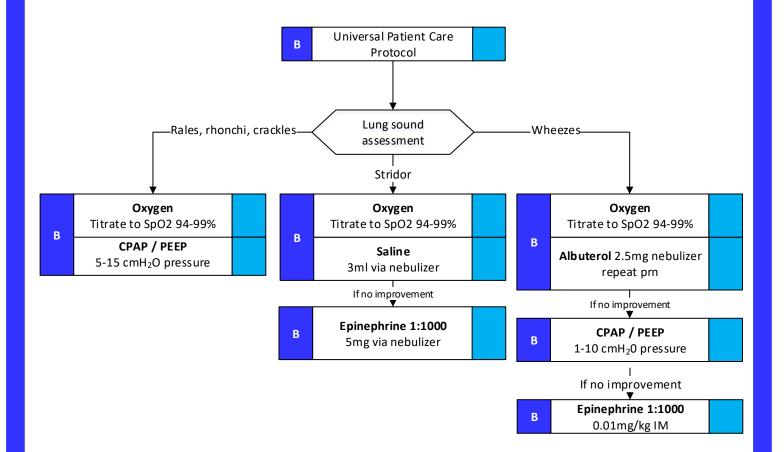
Adult Respiratory Illness

Key Information:	Key Information Continued:	Differential:
 Key Information: Past medical history Medications (digoxin, lasix) Viagra, Levitra, Cialis Cardiac historypast myocardial infarction Asthma; COPD – chronic bronchitis, emphysema Congestive heart failure Home treatment (oxygen, nebulizer, CPAP) 	Key Information Continued:• Respiratory distress, bilateral rales• Apprehension, orthopnea• Jugular vein distention• Pink, frothy sputum• Peripheral edema, diaphoresis• Hypotension, shock• Chest discomfort• Shortness of breath• Pursed lip breathing• Decreased ability to speak	 Differential: Asthma/COPD (Emphysema, Bronchitis) Anaphylaxis Aspiration Pleural effusion Pneumonia Pulmonary embolus Pneumothorax Cardiac (MI or CHF) Pericardial tamponade
Medications (theophylline, steroids, inhalers) Toxic exposure, smoke inhalation	 Increased respiratory rate & effort Wheezing, rhonchi, rales, stridor Use of accessory muscles Fever, cough Tachycardia 	 Hyperventilation Inhaled toxin (Carbon monoxide, etc.) TB Cystic Fibrosis



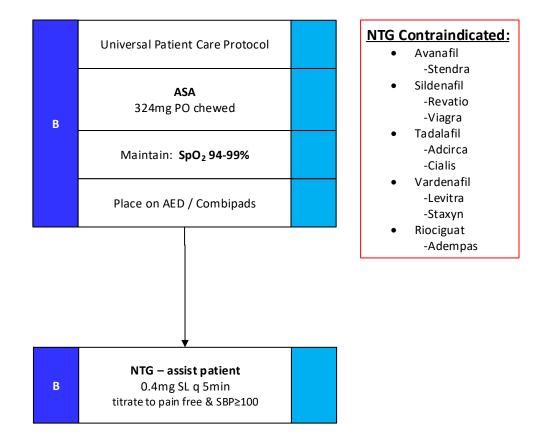
Pediatric Respiratory Illness

Key Information:	Key Information Continued:	Differential:
 Past medical history Past medical history Medications (digoxin, lasix) Cardiac historypast myocardial infarction Asthma Home treatment (oxygen, nebulizer) Medications (theophylline, steroids, inhalers) Toxic exposure, smoke inhalation 	 Respiratory distress, bilateral rales Apprehension, orthopnea Jugular vein distention Pink, frothy sputum Peripheral edema, diaphoresis Hypotension, shock Chest discomfort Shortness of breath Pursed lip breathing Decreased ability to speak Increased respiratory rate & effort Wheezing, rhonchi, rales, stridor Use of accessory muscles Fever, cough Tachycardia 	 Asthma/COPD (Emphysema, Bronchitis) Anaphylaxis Aspiration Pleural effusion Pneumonia Pulmonary embolus Pneumothorax Cardiac (MI or CHF) Pericardial tamponade Hyperventilation Inhaled toxin (Carbon monoxide, etc.) TB Cystic Fibrosis



Suspected Acute Coronary Syndrome

Key Information:HypertensionHyperlipidemiaRecent physical exertionSmokerStimulantsAICDTime of onset	Key Information Continued:• Chest discomfort ex. -pain -pressure -aching -vice-like tightness• Nausea, vomiting, dizziness• Nausea, vomiting, dizziness• Shortness of breath• Pale, diaphoresis• Location	Differential:• Trauma vs. Medical• Angina vs. Myocardial Infarction• Pericarditis• Pulmonary embolism• Asthma/ COPD• Pneumothorax• Astria discritic encourses
 Time of onset Unexplained anxiety 	 Location -substernal -epigastric -arm -jaw -neck -shoulder Radiation of pain Obesity 	 Aortic dissection or aneurysm GI reflux or hiatal hernia Esophageal spasm Chest wall injury or pain Pleural pain Overdose esp. stimulants

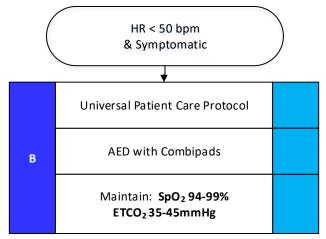


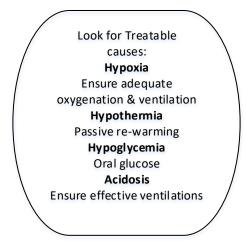
¹⁴ Acute Coronary Syndrome - PEDIATRIC

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Adult Bradycardia

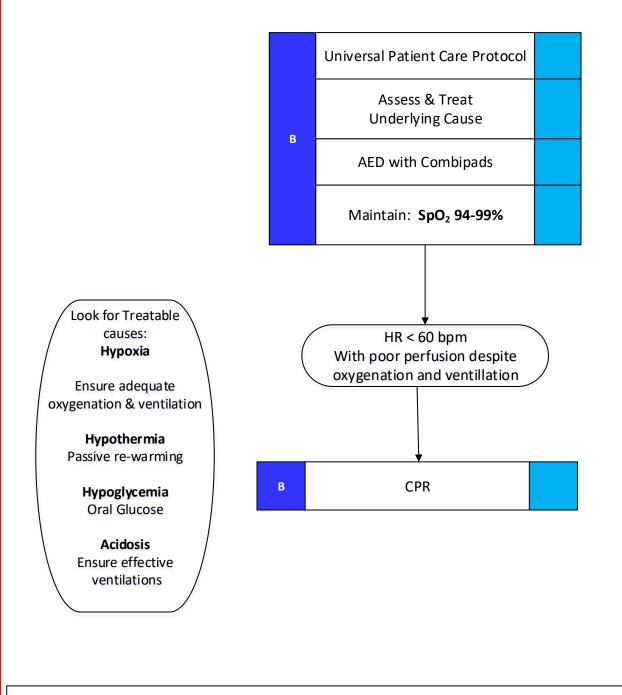
Key Information:	Key Information Continued:	Differential:
 Past History Medications: Beta blockers Calcium Channel Blockers Digoxin Cholinergics Clonidine Pacemaker Events leading to current state 	 Heart Rate <50 bpm with: -Hypotension SBP <90 mmHg -Acute Altered LOC -Chest Discomfort -CHF -Seizure -Syncope 	 Acute MI Pacemaker Failure Sinus Bradycardia Electrolyte abnormality (K, Ca, Na, Mg) Stroke Increased ICP Head Injury Spinal Cord lesion AV block (1^{st*}, 2^{nd*}, 3rd*) Toxic exposure / ingestion





Pediatric Bradycardia

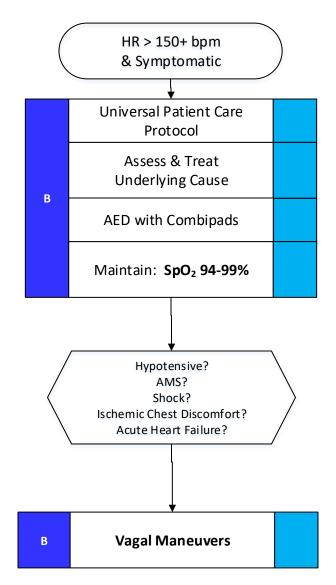
Key Information:	Key Information Continued:	Differential:
Past History	• Heart Rate <60 bpm with:	Pacemaker Failure
Medications:	-poor perfusion in spite of O2 & ventilation	Sinus Bradycardia
-Beta blockers	-Acute Altered LOC	• Electrolyte abnormality (K, Ca, Na
-Calcium Channel Blockers	-Chest Discomfort	Mg)
-Digoxin	-CHF	Stroke
-Cholinergics	-Seizure	Increased ICP
-Clonidine	-Syncope	Head Injury
Pacemaker		Spinal Cord lesion
• Events leading to current state		 AV block (1^{st°}, 2^{nd°}, 3rd°)



• Hypotension can be defined as a SBP < 70 + (age x 2)

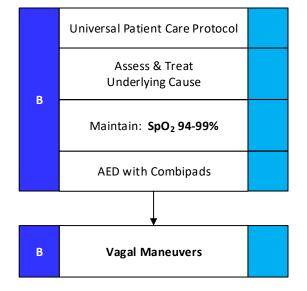
Adult Tachycardia

Key Information:	Key Information Continued:	Differential:
 Medications -Aminophylline -Diet pills -Th yroid supplements -Decongestants -Digoxin Diet (caffeine, chocolate) Drugs (nicotine, cocaine) Hx of palpitations/ heart racing Implantable pacemaker or AICD 	 Heart rate >150/min Systolic BP <90mmHg Dizziness Chest discomfort SOB Diaphoresis Syncope/ near syncope CHF Potential presenting rhythm Atrial fibrillation/ flutter Multifocal Atrial Tachycardia 	 Heart disease Sick sinus syndrome Myocardial Infarction Electrolyte imbalance Exertion Pain Emotional stress Fever Hypoxia Hypovolemia or Anemia Drug effect/ overdose Hyperthyroidism Pulmonary embolus



Pediatric Tachycardia

Key Information:	Key Information Continued:	Differential:
 Medications Aminophylline Diet pills Thyroid supplements Decongestants Digoxin Diet (caffeine, chocolate) Drugs (nicotine, cocaine) History of palpitations/ heart racing Implantable pacemaker or AICD 	 Heart rate >150/min SBP < 70 + (age x2) Dizziness Chest discomfort SOB Diaphoresis Syncope/ near syncope CHF Potential presenting rhythm -Atrial / Sinus Tachycardia -Atrial fibrillation/ flutter -Multifocal Atrial Tachycardia 	 Heart disease Sick sinus syndrome Electrolyte imbalance Exertion Pain Emotional stress Fever Hypoxia Hypovolemia or Anemia Drug effect/ overdose Hyperthyroidism Pulmonary embolus



Probable Sinus Tach

- Compatible history w/ known cause
- P waves present / normal
- Variable R-R; constant PR
- Infants: HR usually <220/min
- Child: HR usually <180/min

Probable SVT

- Vague history, history abrupt HR Δ
- P waves absent / abnormal
- HR NOT variable
- Infants: HR usually >220/min
- Child: HR usually >180/min

Adult Hypotension / Shock

Key Information:	Key Information Continued:	Differential:
Blood loss:	Restlessness, confusion	Low Volume
- Vaginal	Poor oral intake	-Dehydration
-Gastrointestinal	Weakness, dizziness	-Hemorrhage
-AAA	Weak, rapid pulse	High Space
-Ectopic pregnancy	• Pale, cool, clammy skin	-Neurogenic
Fluid Loss:	Delayed capillary refill	-Sepsis
- Vomiting	Hypotension	-Anaphylaxis
-Diarrhea	Coffee-ground emesis	Mechanical
-Fever	Tarry stools	-Heart failure
Infection	• JVD	-Tamponade
• Cardiac ischemia (MI, CHF)	 Lactate >4mmol/L 	-Pneumothorax
Pregnancy		 Vasovagal event

Pregnancy

	Universal Patient Care Protocol	
В	Blood Glucose Procedure	
	Place on combipads / AED	

Pearls:

[•] Hypotension can be defined as a SBP <90mmHg. This is not always reliable and should be interpreted in context of the patient's typical BP if known.

Pediatric Hypotension / Shock

Key Information:	Key Information Continued:	Differential:
Blood loss:	Restlessness, confusion	Low Volume
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Infection	Tarry stools	-Heart failure
Cardiac dysfunction	• JVD	-Tamponade
Pregnancy	Lactate >4mmol/L	-Pneumothorax
		 Vasovagal event

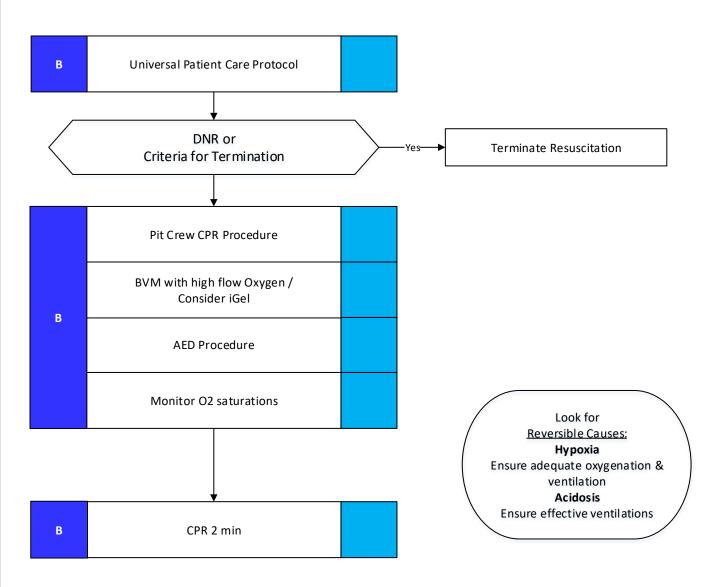
	Universal Patient Care Protocol	
В	Blood Glucose Procedure	
	AED with Combipads	

Pearls:

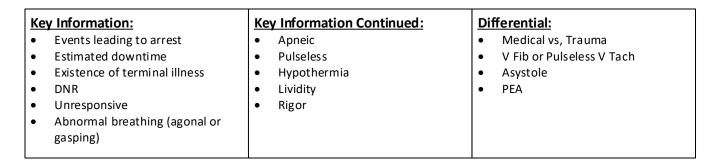
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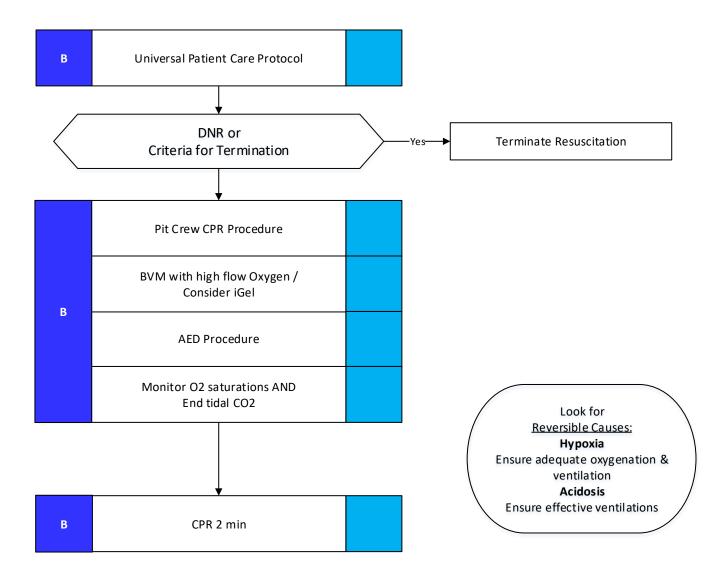
Adult Cardiac Arrest

Key Information:	Key Information Continued:	Differential:
 Events leading to arrest Estimated downtime Existence of terminal illness DNR Unresponsive Abnormal breathing (agonal or gasping) 	 Apneic Pulseless Hypothermia Lividity Rigor 	 Medical vs, Trauma V Fib or Pulseless V Tach Asystole PEA 2 minutes of high qualithy chest pressons, pause for pulse check every 2 minutes

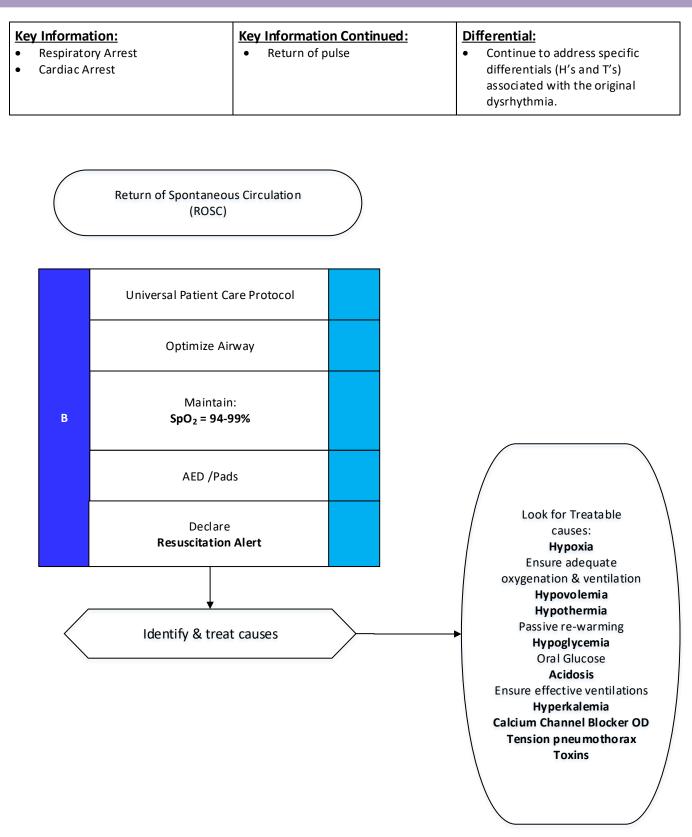


Pediatric Cardiac Arrest

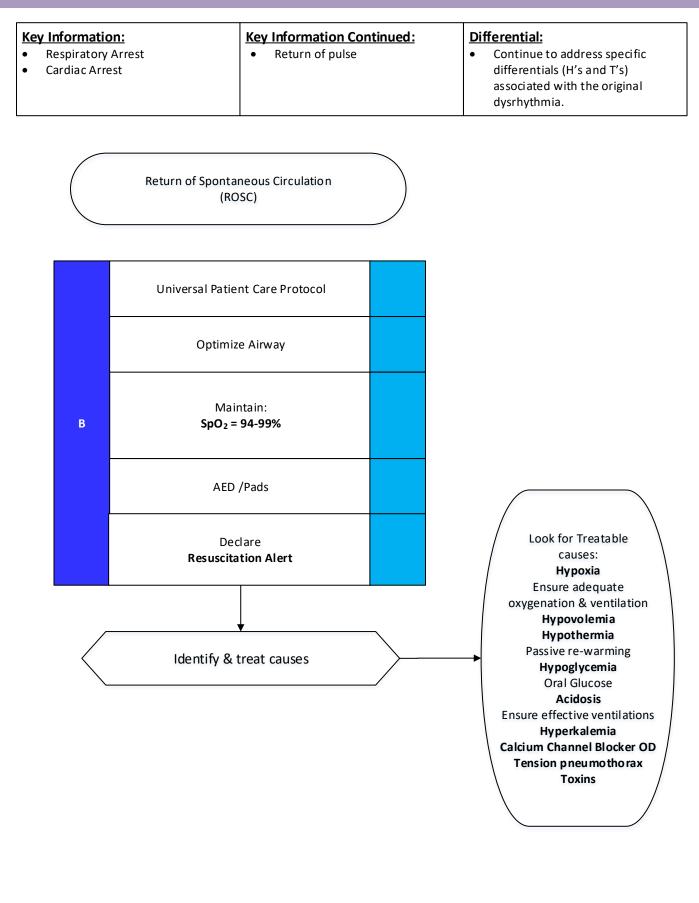




Adult Post Resuscitation

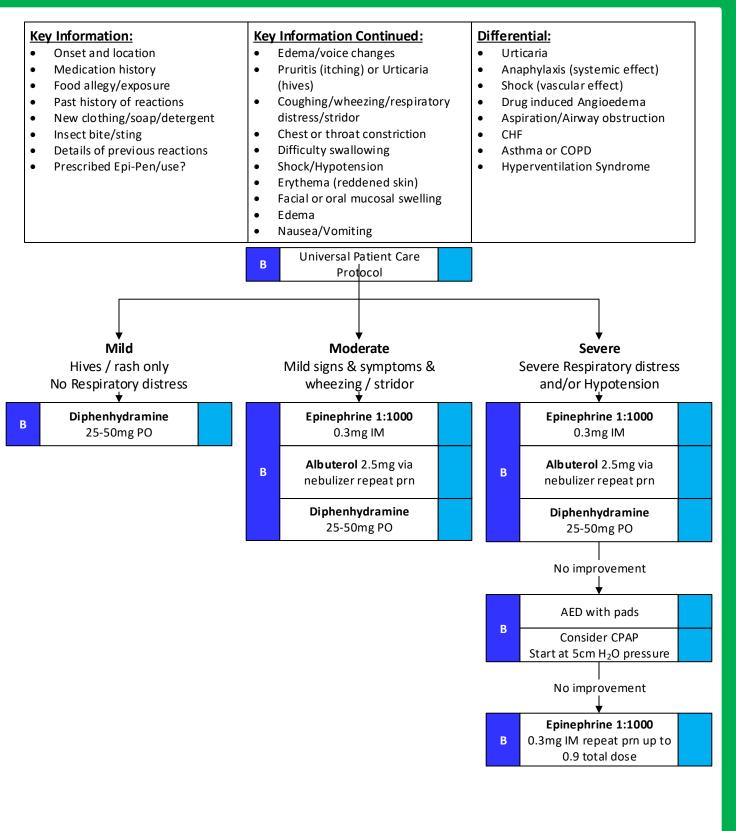


Pediatric Post Resuscitation



Target SBP = (age in years)x2+80

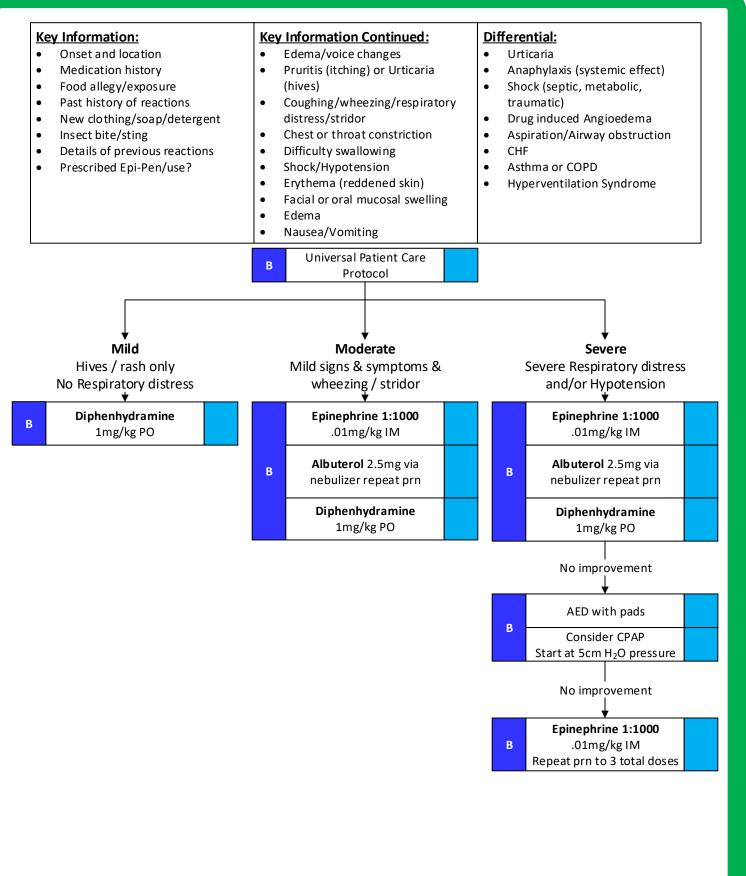
Adult Allergic Reaction



• Use Epinephrine with caution in patients with increased HR and BP.

- Deliver Epinephrine IM deep in a large muscle mass, preferably the lateral thigh.
- The shorter the onset from exposure to symptoms, the more severe the reaction.

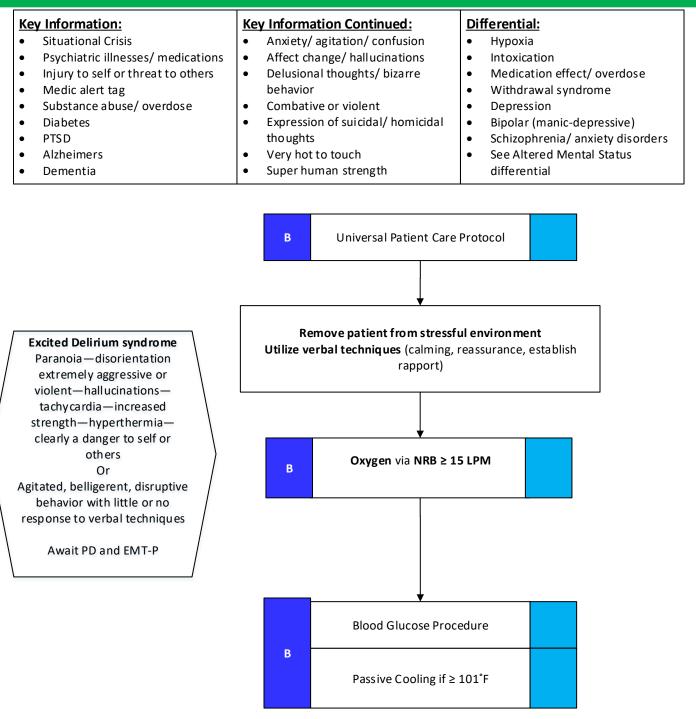
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Behavioral Emergencies

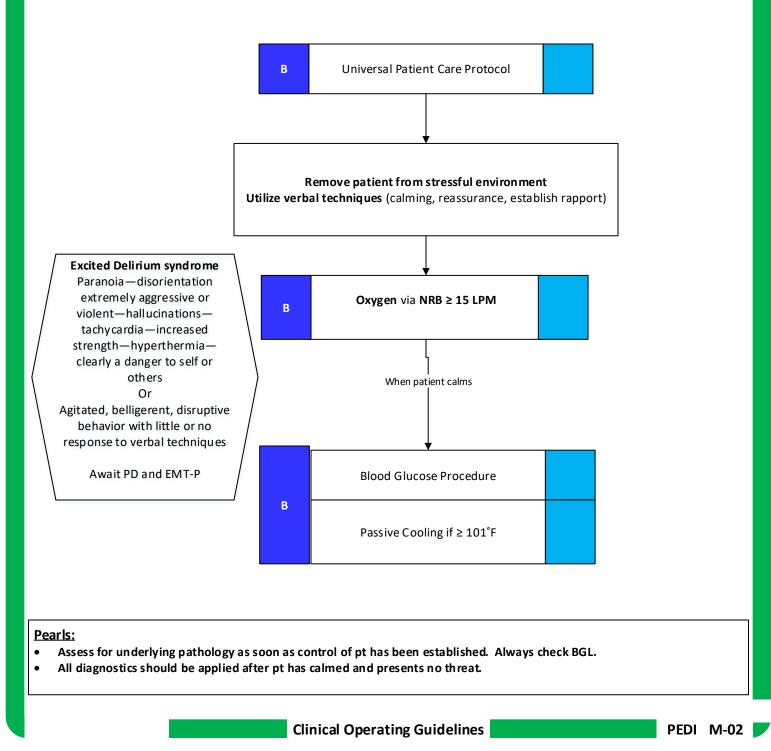


Pearls:

- Assess for underlying pathology as soon as control of pt has been established. Always check BGL.
- All diagnostics should be applied after pt has calmed and presents no threat.

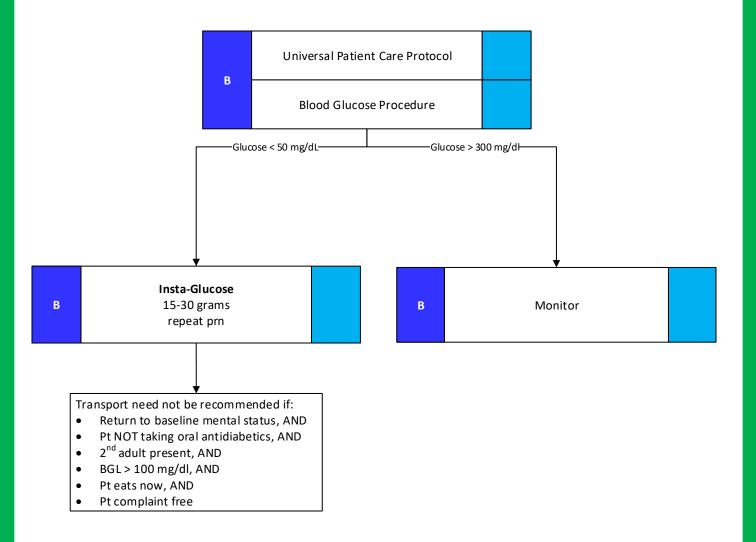
Pediatric Behavioral Emergencies

Key Information:	Key Information Continued:	Differential:	
Situational Crisis	 Anxiety/ agitation/ confusion 	• Hypoxia	
Psychiatric illnesses/ medications	 Affect change/ hallucinations 	Intoxication	
• Injury to self or threat to others	 Delusional thoughts/ bizarre 	Medication effect/ overdose	
Medic alert tag	behavior	Withdrawal syndrome	
 Substance abuse/ overdose 	Combative or violent	Depression	
Diabetes	• Expression of suicidal/ homicidal	Bipolar (manic-depressive)	
• PTSD	thoughts	Schizophrenia/ anxiety disorders	
	 Very hot to touch 	See Altered Mental Status	
	Super human strength	differential	

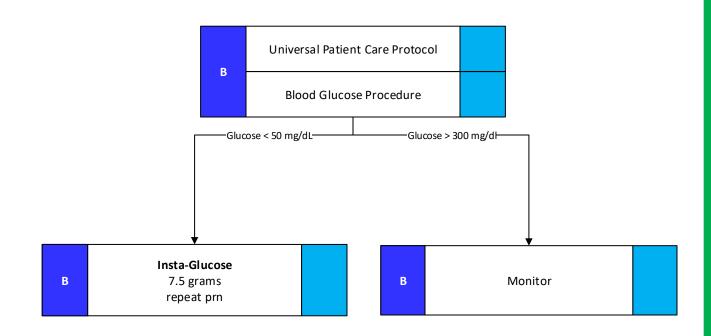


Adult Diabetic

Key Information:	Key Information Continued:	Differential:		
• Known diabetic, medic alert tag	Decreased mental status	Head trauma		
• Drugs, drug paraphernalia	• Change in baseline mental status	• CNS (stroke, tumor, seizure,		
Report of illicit drug use or toxic	• Bizarre behavior (combative,	infection)		
ingestion	confused, disoriented)	• Cardiac (MI, CHF), Dysrhythmias		
History of trauma	• Hypoglycemia (cool, diaphoretic	Infection		
Change in condition	skin)	• Thyroid (hyper / hypo)		
Syncope	• Hyperglycemia (warm, dry skin;	• Shock (septic, metabolic,		
Insulin use or Oral Hypoglycemic	fruity breath;	traumatic)		
medications	Kussmaul respirations	Toxicologic		
Hyperventilation Syndrome	 Signs of dehydration 	Acidosis / Alkalosis		
Last meal	Seizures	Environmental exposure		
	Abdominal pain	Pulmonary (Hypoxia)		
	 Nausea/ vomiting 	Electrolyte abnormality		
	Weakness	Behavioral		
		•		



Pediatric Diabetic

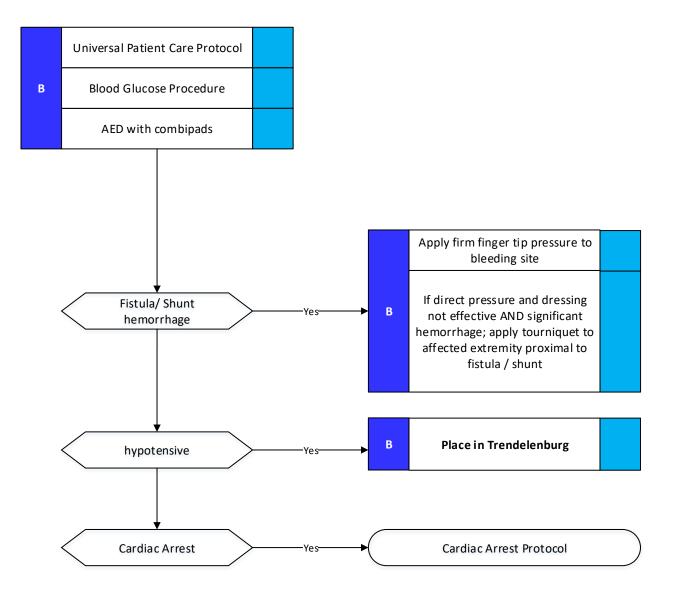


Pearls:

• Neonates can have normal blood glucose levels as low as 40 mg/ dl.

Adult Dialysis/ Renal Failure

Key Information:	Key Information Continued:	Differential:		
 Peritoneal or Hemodialysis Anemia Catheter access noted Shunt access noted Hyperkalemia 	 Hypotension Bleeding Fever Electrolyte Imbalance Nausea and/or vomiting Altered Mental Status Seizure 	 Congestive Heart failure Pericarditis Diabetic emergency Sepsis Cardiac tamponade 		
	Dysrhythmia			

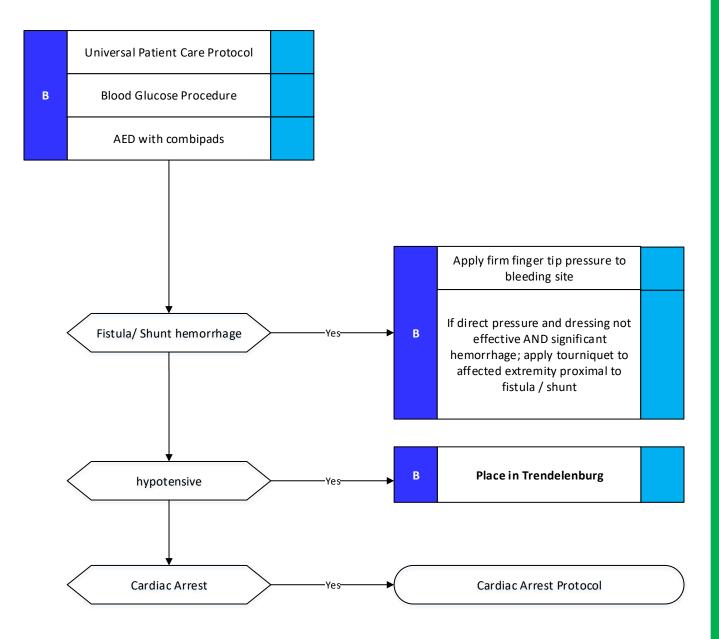


Pearls:

Do not take Blood pressure or start IV in an extremity which has a active fistula / shunt in place.

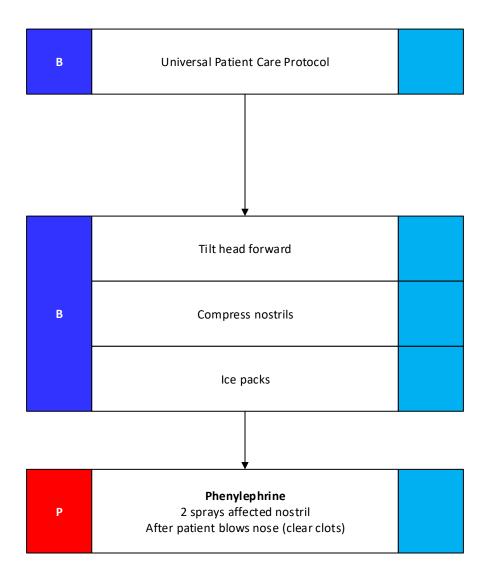
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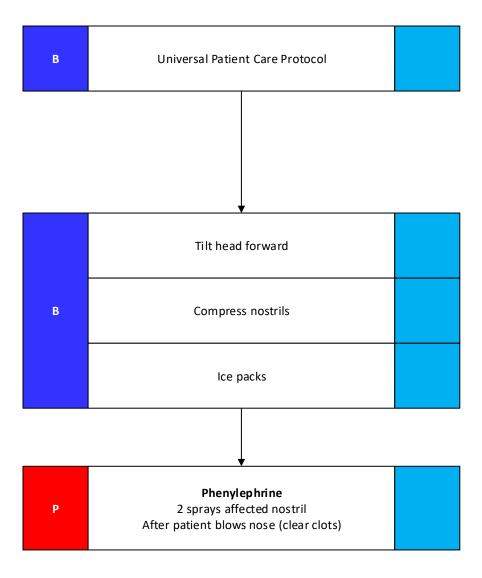
Epistaxis

Key Information:	Key Information Continued:	Differential:		
Previous episodes	Pain	• Trauma		
Anticoagulants	Nausea	• Infection (viral URI or sinusitis)		
• Trauma	Vomiting	Allergic rhinitis		
• Duration of bleeding	_	• Lesions (polyps, ulcers)		
Quantity of bleeding		Hypertension		
		•		



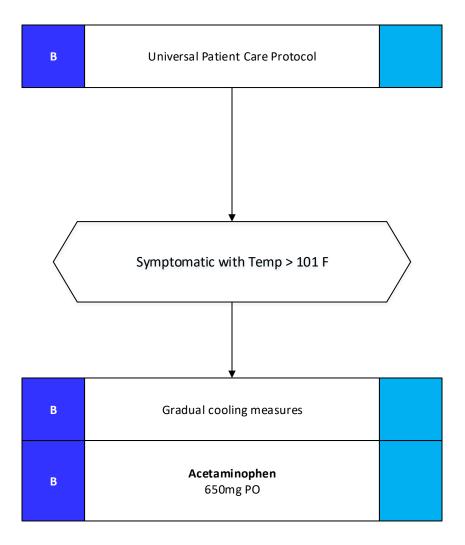
Pediatric Epistaxis

Key Information:	Key Information Continued:	Differential:
 Previous episodes Anticoagulants Trauma Duration of bleeding Quantity of bleeding 	PainNauseaVomiting	 Trauma Infection (viral URI or sinusitis) Allergic rhinitis Lesions (polyps, ulcers) Hypertension



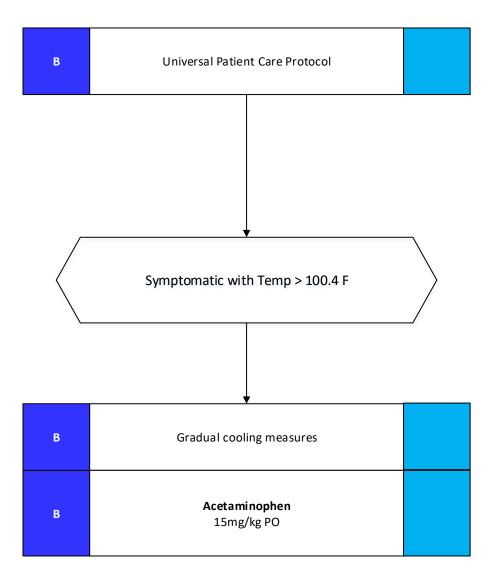
Adult Fever

Key Information:	Key Information Continued:	Differential:		
• Age	Mental status	• Fever		
Exposure to increased	Skin condition & turgor	Infection (viral, bacterial, etc)		
temperatures and/or humidity	Chills / Rigors	Dehydration		
Time and duration of fever	Seizures	Medications		
Poor PO intake or extreme	Nausea/Vomiting	Hyperthyroidism (Thyroid Storm)		
exertion	• Malaise, cough, chest pain,	Excited Delirium		
• Fatigue and/or muscle cramping	headache, dysuria, rash /	Heat exposure		
Last antipyretic adminstration	petichiae, stiff neck			



Pediatric Fever

Key Information:	Key Information Continued:	Differential:		
• Age	Mental status	• Fever		
High ambient temperature	Skin condition & turgor	• Infection (viral, bacterial, etc)		
Contact with sick persons	Chills / Rigors	Dehydration		
• Time and duration of fever	Seizures	Medications		
Poor PO intake or exertion	Nausea/Vomiting	• Hyperthyroidism (Thyroid Storm)		
• Number of wet diapers	• Malaise, cough, chest pain,	Excited Delirium		
Fatigue and/or muscle crampingLast antipyretic adminstration	headache, dysuria, rash / petichiae, stiff neck	Heat exposure		

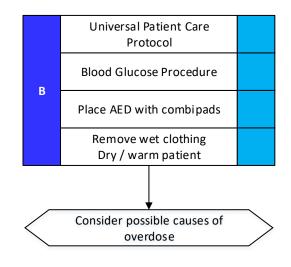


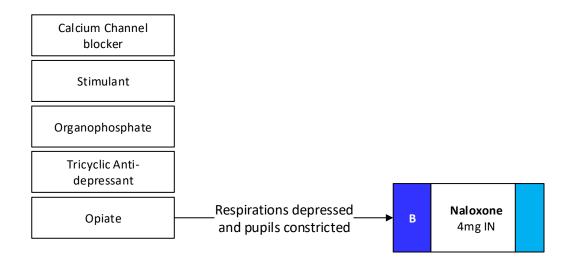
Adult Overdose / Toxic, Exposure

Key Information: • Substance exposed to • Route of entry: -Injection -Inhalation -Ingestion -Absorption • Duration of exposure • Time since exposure • Reason if known -Suicidal -Accidental -Criminal	Key Information Continued:Differential:• Treatment prior to arrivalScondary Device(s)• Available medication(s) in home• MI• Decontamination performed• Asthma/COPD• Mental status changes• Other chemical weapon• Mental status changes• Biological weapon• Hypotension/ hypertension• Overdose• Decreased respiratory rate• Food borne illness• Tachycardia, dysrhythmias• Airborne irritant (hydrogen sulfide, chlorine, etc)• SLUDGEM• Tricyclic antidepressants• DUMBBELLS• Atticholinergic Cardiac medications• Solvents, alcohols, cleaning agents• Insecticides (organophosphates)
	Universal Patient Care Protocol Blood Glucose Procedure Place AED with combipads Remove wet clothing Dry / warm patient Consider possible causes of overdose
Calcium Channel blocker Stimulant	
Organophosphate Tricyclic Anti- depressant	
Opiate	Respirations depressed B Naloxone and pupils constricted 4mg IN

Pediatric Overdose / Toxic Exposure

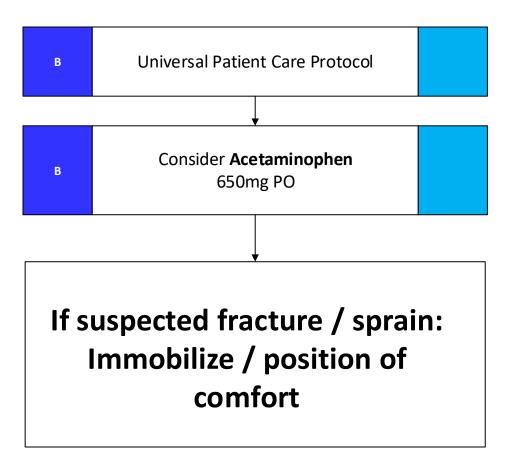
Key Information: • Substance exposed to • Route of entry: -Injection -Inhalation -Ingestion -Absorption • Duration of exposure • Time since exposure • Reason if known -Suicidal -Accidental -Criminal	 Key Information Continued: Treatment prior to arrival Secondary Device(s) Available medication(s) in home Decontamination performed Mental status changes Hypotension/ hypertension Decreased respiratory rate Tachycardia, dysrhythmias Seizures SLUDGEM DUMBBELLS 	Differential:• Stroke• Asthma• Other chemical weapon• Biological weapon• Overdose• Food borne illness• Airborne irritant (hydrogen sulfide, chlorine, etc)• Tricyclic antidepressants• Acetaminophen (Tylenol)• Depressants• Stimulants• Anticholinergic• Cardiac medications• Insecticides (organophosphates)





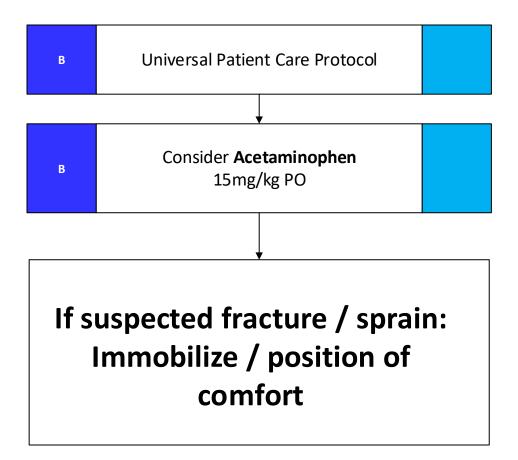
Pain Management

K	ey Information:	Ke	y Information Continued:	Dif	ferential:
•	Age	•	Severity (pain scale)	•	Per specific protocol
•	Location	•	Quality	•	Musculoskeletal
•	Duration	•	Radiation	•	Visceral (abdominal)
•	Severity	•	Relation to movement, respiration	•	Cardiac
•	Drug Allergies	•	Increased with palpation of area	•	Pleural/Respiratory
•	Medications taking prior to EMS	•	Pain (para-spinous or spinous	•	Neurogenic
	arrival		process)	•	Renal (colic)
•	Past surgical history	•	Extremity weakness	•	Muscle spasm/strain
•	Traumatic Mechanism	•	Shooting pain into an extremity	•	Herniated disc w/nerve
•	Fever	•	Bowel/bladder dysfunction		compression
•	Urinary Retention or incontinence			•	Sciatica
•	Saddle parasthesia			•	Spine Fracture
				•	Aneurysm
				•	Epidural abscess
				•	Kidney Stone



Pediatric Pain Management

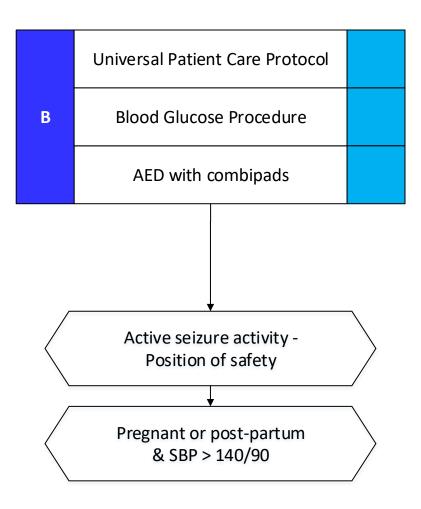
Key Information:	Key Information Continued:	Differential:
 Age Location Duration Severity Drug Allergies Medications taking prior to EMS arrival Past surgical history Traumatic Mechanism Fever Urinary Retention or incontinence Saddle parasthesia 	 Severity (pain scale) Quality Radiation Relation to movement, respiration Increased with palpation of area Pain (para-spinous or spinous process) Extremity weakness Shooting pain into an extremity Bowel/bladder dysfunction 	 Per specific protocol Musculoskeletal Visceral (abdominal) Pleural/Respiratory Neurogenic Renal (colic) Muscle spasm/strain Herniated disc w/nerve compression Sciatica Spine Fracture Epidural abscess Kidney Stone



Never exceed 15mg/kg Acetaminophen

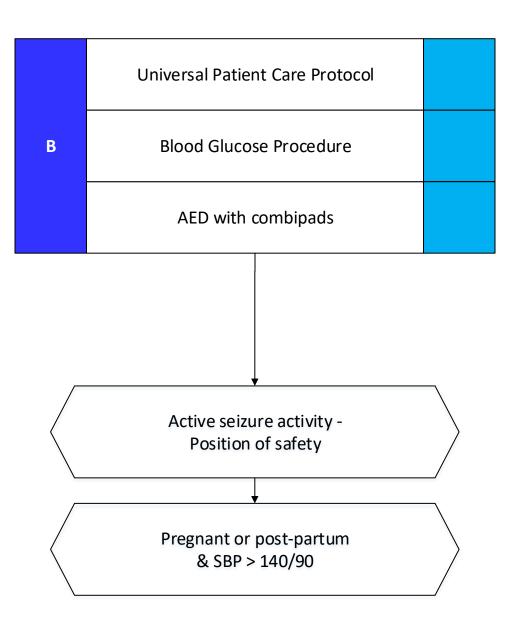
Adult Seizure

Key Information:	Key Information Continued:	Differential:
Reported/witnessed seizure	Decreased mental status	CNS (Head Trauma)
activity	Sleepiness	Tumor
Previous seizure history	Incontinence	Metabolic, Hepatic, or Renal
Medical Alert Tag information	Observed seizure activity	Failure
Seizure medications	Evidence of trauma	Hypoxia
History of:	Unconsciousness	• Electrolyte abnormality (Na, Ca,
-Trauma	Number of Seizures	Мg, К)
-Diabetes	Fever	• Drugs, Medications compliance
-Pregnancy	 Alcohol/Drug usage 	Infection/Fever
Time of onset	Bit tongue?	Alcohol withdrawal
	Incontinence?	Eclampsia
		Stroke
		Hyperthermia
		Hypoglycemia



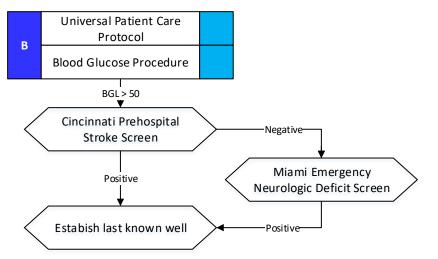
Pediatric Seizure

Key Information:	Key Information Continued:	Differential:
 Reported/witnessed seizure activity Previous seizure history Medical Alert Tag information Seizure medications History of: Trauma Diabetes Pregnancy 	 Decreased mental status Sleepiness Incontinence Observed seizure activity Evidence of trauma Unconsciousness Number of Seizures Alcohol/Drug usage Bit tongue? 	 CNS (Head Trauma) Tumor Metabolic, Hepatic, or Renal Failure Hypoxia Electrolyte abnormality (Na, Ca, Mg, K) Drugs, Medications compliance Infection/Fever
Time of onsetTemperature	Incontinence?	 Stroke Hyperthermia Hypoglycemia



Stroke / TIA

Key Information:	Key Information Continued:	Differential:
• Previous strokes or TIA's	Altered Mental Status	• TIA
• Previous cardiac or vascular	Weakness/ Paralysis	Seizure
surgery	Acute visual changes or other sensory	Hypoglycemia
Atrial Fibrillation	loss	Hypoxia/Hypercarbia
Medications (blood thinners)	Aphasia/ Dysarthria	Stroke
History of trauma	Syncope	Tumor
DNR status	Vertigo/ Dizziness	• Trauma
Associated Diseases	Vomiting	Todd's paralysis
-Diabetes	Headache	Bell's palsy
● -HTN	Seizures	Dialysis/ Renal Failure
• -CAD	Respiratory pattern change	
	Hypertension/hypotension	
	Limb ataxia	



Cincinnati Prehospital (below in gray) Miami Emergency Neurologic Deficit Screen

MENTAL STATUS

- Level of Consciousness (AVPU)
- Speech: "You can't teach an old dog new tricks"
- Questions (age, month)
- Commands (close, open eyes)

CRANIAL NERVES

- Facial Droop (show teeth or smile)
- Visual Fields (four quadrants)
- Horizontal Gaze (side to side)

LIMBS

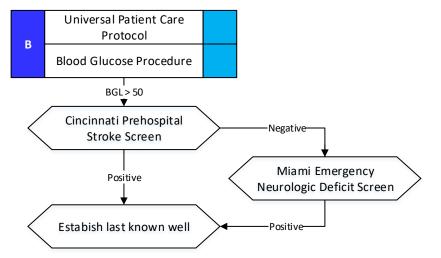
- Motor Arm Drift (close eyes-hold out arms)
 - Leg Drift (open eyes-lift each leg separately)
- Sensory Arm, Leg (close eyes & touch, pinch)
- Coordination Arm, Leg (finger-nose, heel-shin)

Pearls:

- Whenever possible, a family member that knows patient medical history should ride with EMS crew, if not possible obtain cell phone number of family member who can provide the patient's medical history.
- Miami is screening tool above in white. Cincinnati is in gray.

Pediatric Stroke / TIA

Key Information:	Key Information Continued:	Differential:
• Previous strokes or TIA's	Altered Mental Status	• TIA
• Previous cardiac or vascular	Weakness/ Paralysis	Seizure
surgery	Acute visual changes or other sensory	Hypoglycemia
 Preganacy 	loss	Hypoxia/Hypercarbia
Hx of Sickle Cell	Aphasia/ Dysarthria	Stroke
 Medications (blood thinners) 	Syncope	Tumor
History of trauma	Vertigo/ Dizziness	• Trauma
DNR status	Vomiting	Todd's paralysis
 Associated Diseases 	Headache	Bell's palsy
-Diabetes	Seizures	Dialysis/ Renal Failure
• -HTN	Respiratory pattern change Hypertension/hypotension Limb ataxia	



Cincinnati Prehospital (below in gray) Miami Emergency Neurologic Deficit Screen

MENTAL STATUS

- Level of Consciousness (AVPU)
- Speech: "You can't teach an old dog new tricks"
- Questions (age, month)
- Commands (close, open eyes)

CRANIAL NERVES

- Facial Droop (show teeth or smile)
- Visual Fields (four quadrants)
- Horizontal Gaze (side to side)

LIMBS

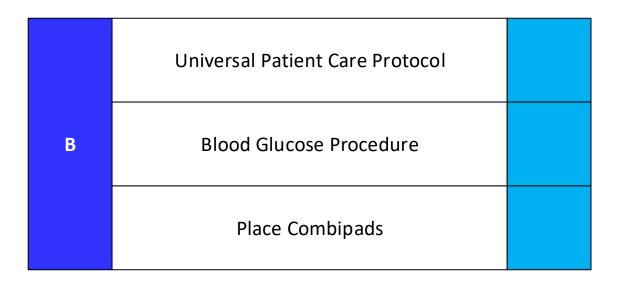
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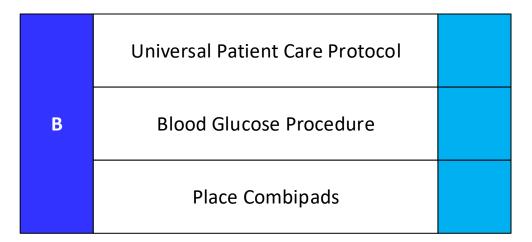
Syncope

Key Information:	Key Information Continued:	Differential:
Occult blood loss (GI, ectopic)	Loss of consciousness with	Vasovagal
Females	recovery	Orthostatic hypotension
-LMP	Lightheadedness or dizziness	Cardiac syncope
-Vaginal bleeding	Palpitations	Micturition/ Defecation syndrome
Fluid loss	Pulse irregularity	Psychiatric
-Vomiting	Hypotension	Stroke
-Diarrhea		Hypoglycemia
Chest pain/ palpitations		Seizure
• SOB		Shock
• Past Medical History of Cardiac,		Toxicologic or Alcohol
Stroke, Seizure		• PE
New medications		• AAA

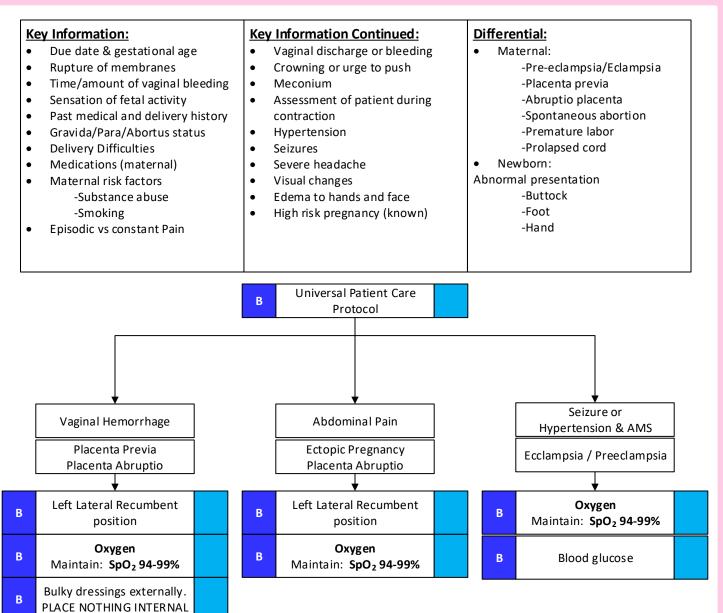


Pediatric Syncope

Key Information:	Key Information Continued:	Differential:
 Occult blood loss (GI, ectopic) 	• Loss of consciousness with	Vasovagal
Females	recovery	Orthostatic hypotension
-LMP	• Lightheadedness or dizziness	Cardiac syncope
-Vaginal bleeding	Palpitations	• Micturition/ Defecation syndrome
Fluid loss	Pulse irregularity	Psychiatric
-Vomiting	Hypotension	Stroke
-Diarrhea		Hypoglycemia
Chest pain/ palpitations		Seizure
• SOB		Shock
• Past Medical History of Cardiac,		Toxicologic or Alcohol
Stroke, Seizure		• PE
New medications		

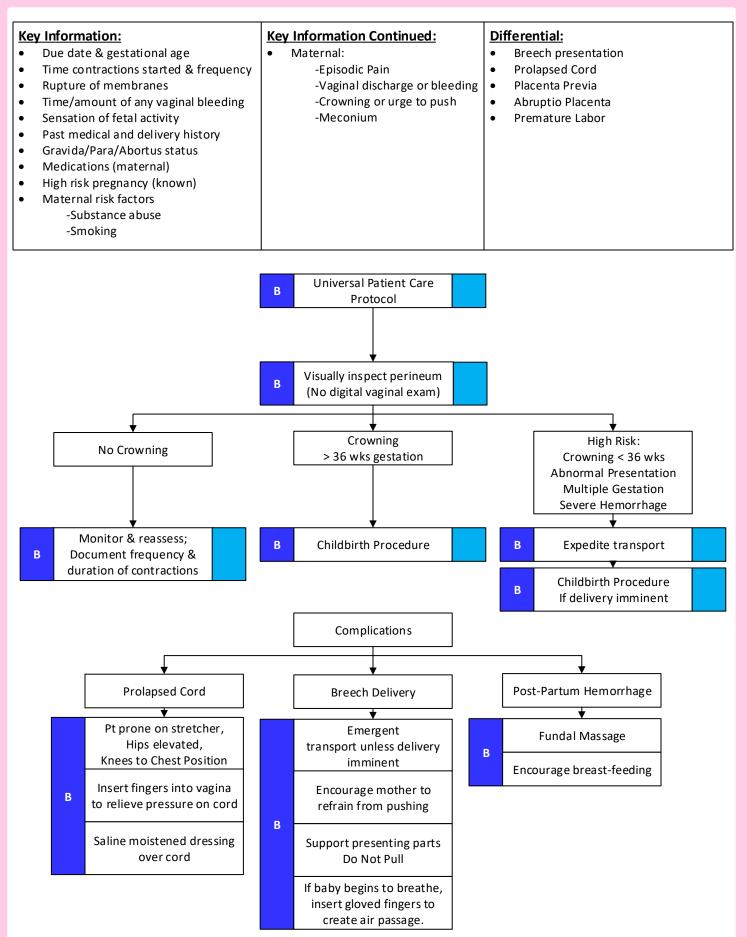


Obstetrical Emergency

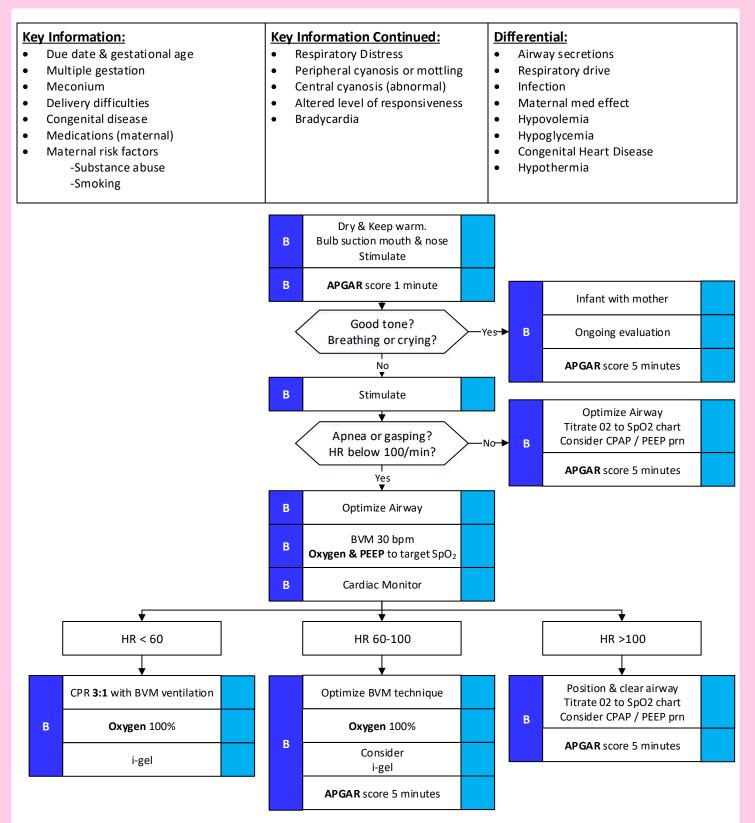


Ecclamptic seizures may occur up to 2 months post partum. Always consider in pregnant/recently pregnant seizing patient.

Active Labor



Neonatal Resuscitation



Neonatal Resuscitation

APGAR est Scoring	Score 0	Score 1	Score 2
Appearance	*		Of the second
	Blue all over	Blue only at extremities	No blue coloration
P ulse	No pulse	<100 beats/min.	>100 beats/min
c	0 (1) (1)	AL AL	0 Char
Grimace	No response to stimulation	Grimace or feeble cry when stimulated	Sneezing, coughing, or pulling away when stimulated
Activity	ŵ	en la companya de la	en la
	No movement	Some movement	Active movement
Respiration	No breathing	Weak, slow, or irregular breathing	Strong cry

Targeted Preductal			
SpO ₂	SpO ₂ After Birth		
1 min		60%-65%	
2 min		65%-70%	
3 min		70%-75%	
4 min		75%-80%	
5 min		80%-85%	
10 min		85%-95%	

Blood Glucose Assessment

EMT

B

Clinical Indications:

- Any patient with an altered mental status
- Patients with metabolic or endocrine disorders, and presenting with non-specific complaints
- Bradycardia or hypothermia in infants

Procedure:

1. Gather and prepare equipment.

2. Blood samples for performing glucose analysis may be obtained either through a finger stick (capillary) or from IV catheter (venous). Aseptically prepare the skin site.

3. Remove a new test strip from the vial.

- 4. Insert the test strip into the slot on the meter.
- 5. Ensure cap is secure tightly to strip container after use.
- 6. The meter should automatically power on.
- 7. When the blood drop symbol flashes you are ready to perform a test.
- 8. Obtain a drop of blood

9. With the strip in the meter, touch and hold the drop of blood to the edge of the strip. The blood will be drawn into the strip automatically.

10 When enough blood has been obtained from the strip a box will rotate on the screen to let you know the machine is performing the test.

- 11. The blood glucose result is displayed on the meter.
- 12. Remove the test strip and dispose of in a biohazard container.
- 13. Dispose of the lancet (if used) in a sharps container.
- 14. Turn the meter off.
- 15. Document the glucometer reading and treat the patient accordingly.
- 16. Repeat glucose analysis as indicated for re-assessment after treatment, if required.

BVM Management

EMT

В

Indications:

Patient requires respiratory/ventilatory support

Storage in Airway Kit

Bag-Valve-Mask should be stored fully assembled with PEEP valve port attachment, EtCO2 filter line, and mask. This should allow more rapid deployment of the device when needed. A PEEP valve should be stored with the device, and perhaps attached but set to ZEEP (Zero End Expiratory Pressure; PEEP = 0) for storage. A right angle adjunct (flexible or rigid) should also be stored with the BVM.

Procedure

- 1. Place the patient in the ear to sternal notch positioning, with the neck flexed and head extended.
- 2. Place oral and nasal airways as indicated yet not contraindicated. (One oral airway and two nasal airways preferable.)
- 3. Separate the mask from the assembly above and place it on the patient's face. The mask side goes to the patient's face.
- 4. Create an effective mask seal with a two-handed, thumbs forward technique, using the fingers to pull the jaw anterior to the maxilla (jaw thrust) and thus into the mask. This naturally maintains good head and neck positioning.
- 5. Have an assistant attach the bag assembly and squeeze the bag as necessary, with slow breaths and only until chest rise is seen.
- 6. Utilize PEEP valve per protocol.
- 7. Switch the face mask for an appropriately sized and placed laryngeal mask airway (LMA/igel) as soon as possible. An igel is biased to oxygenate and ventilate the respiratory system only, where a face mask naturally oxygenates and ventilates both the respiratory and gastric systems.
- 8. Be certain that the bag assembly is connected to oxygen flowing at an appropriate rate. A nasal cannula should be placed under the face mask as soon as possible to augment oxygenation.

Direct Vascular Occlusion

EMT

B

Clinical Indications:

Uncontrolled external hemorrhage not amenable to tourniquet

Procedure:

- 1. Examine wound and identify the specific point of bleeding. This may require momentarily wiping away excess blood.
- 2. Occlude the specific point of bleeding with your finger(s).
- 3. Lifting the aforementioned finger(s) momentarily, use your other hand to pack gauze directly over the source of the bleeding. (Gauze impregnated with a hemostatic agent is preferable for this, when available.)
- 4. This should be repeated piece by piece or inch by inch to maximize use of the gauze, maximize occlusion of the vessel, and minimize the surface area over which the force is applied while remaining effective.
- 5. Pack the entire package of hemostatic gauze (if available) into the wound , and apply 2-3 minutes of direct pressure to set the dressing.
- 6. (Should the dressing become fully saturated or active bleeding resume, remove it and repack using steps 1-5 again.)
- 7. Use an elastic bandage to wrap the dressing.

i-GEL Airway Device

EMT

<u>Clinical Indications:</u>

• Unsecured airway.

Contra-indications:

- Patients who are conscious or who have an intact gag reflex.
- Trismus (lockjaw).
- Limited mouth opening, retropharyngeal abscess, epiglottitis, trauma or mass. (relative)
- Do not leave the device in place for more than 4 hours.

Notes / Precautions:

- The patient should always be in the 'sniffing-the-morning air' position prior to insertion with the assistant helping to open the patient's mouth, unless head/neck movements are considered inadvisable or are contraindicated.
- The leading edge of the i-gel O2's tip must follow the curvature of the patient's hard palate upon insertion.
- After insertion, i-gel O2 may be secured using twill tape with clove hitch, adhesive tape maxilla to maxilla, or Thomas device.
- High airway pressures may divert gas either to the stomach or to the atmosphere.
- During transition to spontaneous ventilation; airway manipulations, sedation, other adjuncts or methods may be needed to maintain airway patency.
- Do not use excessive force to insert the device or suction tube.

Procedure:

1. Use appropriate PPE.

- 2. Prepare, position and oxygenate the patient.
- 3. Choose the appropriate i-gel airway based on the patients ideal body weight or height.
- 4. Place the securing device behind the patients head in preparation to secure the i-Gel airway.
- 5. Lubricate distal tip, anterior, posterior, lateral and medial aspects with water soluble jelly.

6. Grasp the lubricated i-gel firmly along the integral bite block. Position the device so that the i-gel cuff outlet is facing towards the chin of the patient.

7. The patient should be in a "sniffing" position with head extended and neck flexed unless contraindicated. The chin should be gently distracted prior to insertion

8. Introduce the leading soft tip into the mouth of the patient in a direction toward the hard palate .

9. Glide the device downwards and backwards along the hard palate with a continuous but gentle push until a definitive resistance is felt.

a. If resistance or difficulty is met, regress i-gel airway partially and rotate 90° counterclockwise. Re-insert until resistance is met(hypopharynx), then rotate 90° clockwise and insert until definitive resistance is met. Settle into place.

10. Confirm the patient's incisors are resting on the integral bite block and secure in place

11. Apply EtCO₂ device if available.

12. Confirm proper position by auscultation, chest movement.

13. Following successful placement of the i-gel airway an appropriately sized cervical collar may be applied for stability. In the event a C-collar will not fit, manual inline stabilization may be substituted and if transported; blankets, towels and tape should be used appropriately to restrict motion of the head / neck.

14. Continue assessment and documentation per Airway protocol and Documentation of Patient Care report standard.

Pit Crew CPR Procedure

В

EMT

89

Clinical Indications:

Patient in cardiac arrest

Contra-indications:

Patients not in cardiac arrest

Notes / Precautions:

- Focus is on:
 - a. Minimally interrupted compressions
 - b. Appropriate depth and quality of compressions
 - c. Consider compressor fatigue and change compressors every 2 minutes
 - d. Team approach
- Infants and small children may require modification of the procedure due to size

Goals:

- 1. First arriving providers:
- 2. Establish prior to arriving at patient's side, the following responsibilities:

$\underline{1}$. Chest Compressor 1

- 1. Assesses Responsiveness & Pulse
- 2. Initiates Compressions if unresponsive with no pulse
 - a. rate of 100-120 bpm
 - b. depth of at least 2" in adults and children
 - c. depth of at least 1.5" in infants
 - d. 1/3rd the depth of the chest wall in children and infants
 - e. allows full chest re-coil
 - f. minimizes interruptions in chest compressions
 - g. rotates out at least every two (2) minutes or sooner if fatigue occurs

2. Chest Compressor 2

- 1. Applies AED / monitor
- 2. Switches with Position 1 above
- 3. Ventilates with BVM during off cycle. See BVM Management.

3. Airway Operator

- 1. Manages airway
 - a. Initiates ideal airway positioning
 - b. For BLS airway, inserts adjuncts and holds face mask seal
 - c. Inserts advanced airway
 - d. Suctions prn
 - e. Coordinates ventilation efforts with off-cycle compressor

4. Team Lead

- 1. communicates/interfaces with providers performing CPR
- 2. operates AED / monitor
- 3. makes all patient treatment decisions
- 4. coordinates next compressors

5. Code Recorder

- 1. Uses time keeping device to keep team on track
- 2. Announces clearly and loudly two (2) minute time periods
- 3. Summarizes treatment provided at the discretion of the team leader

CPR

Procedure:

1. Assess the patient's level of responsiveness (touch and talk, shake and shout).

2. If no response assess for responsiveness, movement, breathing, and pulse (carotid for adults and children, brachial for infants)no more than 10 seconds.

3. If no pulse, begin chest compressions at 100-120 per minute. Chest compressions should be provided in an uninterrupted manner. Only interrupt at 2 minute intervals for analysis of rhythm.

4. Provide 10 breaths per minute with the BVM.

5. Document the time and procedure in the Patient Care Report (PCR).

Age	Location	Hand Position	Depth	Rate / Ratio
Neonate (birth – 30 days	Over sternum 2-3 finger breadths below inter mammary line (lower half of the sternum)	Thumb encircling technique	1/3 the anterior / posterior depth of the chest wall	120/minute 3:1 ratio
Infant 30 days to 12 months	Over sternum 2-3 finger breadths below inter mammary line (lower half of the sternum)	Two (2) fingers for one (1) rescuer or Thumb encircling technique for two (2) rescuers	1/3 the anterior / posterior depth of the chest wall or at least 1.5"	100-120/minute 30:2 for one (1) rescuer 15:2 for two (2) rescuers
Child 1 year of age to the onset of puberty or adolescence	Over sternum Between the nipples (lower half of the sternum)	Heel of one or two (2) hands)	1/3 the anterior / posterior depth of the chest wall or at least 2"	100-120/minute 30:2 for one (1) rescuer 15:2 for two (2) rescuers
Adult	Over sternum Between the nipples (lower half of the sternum)	Two (2) hands heel and interlocking	2-2.4"	100-120/minute 30:2 for one (1) or two (2) rescuers

Tourniquet

EMT

В

Clinical Indications:

- Life threatening extremity hemorrhage that can not be controlled by other means.
- Life threatening condition(s) that require immediate attention <u>and</u> significant extremity hemorrhage where the use of a tourniquet is more expedient than standard hemorrhage control.
- Uncontrolled bleeding from a medical catheter, such as a dialysis shunt.

Contra-indications:

- Proximal extremity location where tourniquet application is not practical
- Bleeding is well controlled by other means

Notes / Precautions:

- Do not remove the tourniquet once it is in place.
- It may take more than one (1) tourniquet to control bleeding, especially in larger extremities.
- Failure to adequately tighten the tourniquet to the loss of pulses may cause restriction of venous return and result in a compartment syndrome.

Procedure:

- 1. Expose the extremity by removing clothing in proximity to the injury, if time allows.
- 2. Place tourniquet proximal to wound according to manufacturer instructions, at least 2 inches proximal to injury.
- 3. Route the self adhering band around the extremity
- 4. Pass the band through the outside slit of the buckle
- 5. Pull the self adhering band tight, and check that three fingers will not slide between skin and band.
- 6. Tighten until loss of distal pulses or until arterial bleeding stops. (typically nor more than 3 twists).
- 7. Secure windlass, run band tail through windlass gate, and lock with time tab. Tourniquet should be easily visible on patient.
- 8. Note time of tourniquet application and communicate this to receiving care providers.
- 9. Dress wounds per standard wound care protocol.

If priorities indicate (Care Under Fire / Hot Zone, MCI, multi-system trauma) apply tourniquet HIGH & TIGHT in lieu of steps 1-9 above.

Definition of a Patient

EMT

В

DEFINITION OF A PATIENT

The definition of a patient is any human being that:

- 1. Has a complaint suggestive of potential illness or injury
- 2. Requests evaluation for potential illness or injury
- 3. Has obvious evidence of illness or injury
- 4. Has experienced an acute event that could reasonably lead to illness or injury
- 5. Is in a circumstance or situation that could reasonably lead to illness or injury

All individuals meeting any of the above criteria are considered "patients" in the TCESD #5 System. These criteria are intended to be considered in the broadest sense. The determination of an individual's status as a patient requires the input of both the individual and the Provider as well as an assessment of the circumstances that led to the 9-1-1 call.

Application:

1. Anyone that fits the definition of a patient must be properly evaluated by a System credentialed provider and appropriate treatment and transportation offered. (If a patient wishes to refuse offered treatment and/or transport Against Medical Advice (AMA) refer to Refusal of Treatment or Transportation Standard and the Determination of Capacity Standard).

2. Any adult that does not fit the definition of a patient as defined above does not require an evaluation or, completion of a Patient Care Record and, may be designated as "no patient(s)". Minors with an appropriate consenter on scene or, who have the ability to consent as provided below may be designated as "no patient(s)". Minors, as defined below and without an appropriate "consenter on scene"; must have refusal documentation completed on a PCR/ePCR and, may not be designated as "no patient (s)." If there is any doubt; an individual should be deemed a patient and an appropriate evaluation should be provided and documented in the PCR/ePCR. If an individual meets the definition of a patient the following apply: **An adult is a person who is 18 years of age or older**

Adults have the right to consent to or refuse medical treatment.

A minor is a person under the age of 18 who is not and has never been married or who has not had the disabilities of minority (emancipation) removed for general purposes by a court. *Generally, minors can neither consent to, nor refuse, medical treatment. Some minors however, are considered to be emancipated and have the rights of consent/refusal afforded an adult.* A minor is considered emancipated if he or she has obtained a court order of emancipation from a Texas court. Minors may petition the court for emancipation if he is:

(i)A resident of Texas;(ii) 17 years of age or at least 16 years of age and living separate from his parents, managing conservator or guardian;(iii) Is self-supporting and managing his own financial affairs

Determination of Patient Capacity

Procedure:

- 1. In order to have decision making capacity the patient must be 18 years of age or if a minor, be emancipated, must not be suicidal or homicidal or have had their decision making capacity removed by determination of a court of law.
- 2. If the above criteria in #1 have been met the patient must be assessed for their ability to demonstrate the following:
- Understanding their illness or injury and the benefits of treatment and/or evaluation AND
- Understanding the consequences (including death) of not seeking treatment and/or evaluation for their illness or injury <u>AND</u>
- Understanding the alternatives to immediate care by EMS <u>AND</u>
- Able to describe the above in his own words and provide/ defend a reason for decision not to submit to treatment/transport.
- 3. Utilize the Determination of Capacity checklist. If there is any uncertainty about the patient's present mental capacity contact On-Line Medical Control.
- 4. Every individual who has demonstrated present mental capacity has a legal right to refuse medical treatment, even if that refusal is contrary to the beliefs of the provider or may result in potential harm to the patient. It is a healthcare provider's responsibility to provide the patient with information about the risks of refusal and the benefits of treatment and/or evaluation so that their decision is informed.
- 5. If it is determined that a patient who wishes to refuse care lacks capacity, coordinate efforts with the appropriate law enforcement agency.
- 6. Document any allowed history and exam, the absence of suicidal or homicidal ideation, the components of the capacity assessment and contact with medical control.

Capacity Checklist:

- Patient is able to express in their own words:
 - An understanding of the nature of their illness
 - An understanding of the risks of refusal including death
 - An understanding of alternatives to EMS treatment/transport
 - Pt can provide rationale for refusal and debate this rationale
- A patient with any of the following **MAY** lack decision making capacity and should be carefully assessed for their ability to perform the above.
 - Orientation to person, place or time that differs from baseline
 - History of drug/alcohol ingestion with appreciable impairment such as slurred speech or unsteady gait
 - Head injury with LOC, amnesia, repetitive questioning
 - Medical condition such as hypovolemia, hypoxia, metabolic emergencies (e.g., diabetic issues); hypothermia, hyperthermia, etc.
- If any question exists about their capacity contact Medical Control





Standard:

- Termination of Resuscitation
- DNR & Advanced Directives:

-In the event any provider of the EMS System is presented with a completed Out of Hospital Do Not Resuscitate (OOH-DNR) form and/or OOH-DNR ID device, the provider shall withhold CPR and the listed therapies in the event of cardiac arrest. The form and device may be from any (US) State. Refer to DSHS Rule 157.25.

Exceptions:

- A patient that is known to be pregnant (greater than (>) 20 weeks).
- Any indications of un-natural or suspicious circumstances, if potentially salvageable.

Purpose:

- Termination of Resuscitation:
 - to provide a guided structure for discontinuation of pre-hospital resuscitation upon determining further efforts futile. DNR:
 - to honor the terminal wishes of the patient and to prevent the initiation of unwanted resuscitation .

Criteria for Death

1. Resuscitation efforts should not be initiated or continued by Travis County Emergency Services District #5 System provider(s) if one (1) or more of the following is present:

- a. Rigor mortis and/or dependent lividity;
- b. Decomposition;
- c. Decapitation or near decapitation;
- d. Incineration;
- e. Obviously mortal wounds (severe trauma with obvious signs of organ destruction)
- f. Patient submersion greater than 20 minutes

g. Mass Casualty incident whereas resources do not exist to perform CPR on patients in arrest and would be better served by dedicating to other patients;

h. Fetal death with a fetus < 20 weeks by best age determination available at scene, this is considered products of conception and does not require time of death.

- 2. The Confirmation of Death (COD) time will be recorded.
- 3. Pregnant patients that are ≥ 20 weeks in cardiac arrest, where resuscitation measures can be performed, should be transported for fetal viability.
- 4. Document in the PCR the specific indications for withholding resuscitation.
 - a. Fetal death < 20 weeks may be documented on mothers PCR
 - b. If fetus is \geq 20 weeks create a separate PCR
- **Note:

If unsure whether the patient meets the above criteria, initiate resuscitation and consider contacting online medical control (OLMC).

Death, DNR & Termination of Resuscitation

Termination of Resuscitation

 Any System Credentialed Provider, in the following circumstances, may discontinue resuscitation efforts without OLMC:

 Resuscitation efforts were inappropriately initiated when criteria outlined in the Criteria for Death/Withholding Resuscitation Standard were present.

b. A valid Out of Hospital Do Not Resuscitate Form (OOH-DNR) and/or OOH-DNR ID device was discovered after resuscitative efforts have been initiated. The form and device may be from any (US) State or Territory (Original or Copy).

2. Document all patient care and interactions with the patient's family, personal physician, medical examiner, law enforcement, and medical control in the EMS patient care report (PCR).

DNR & Advanced Directives

1. When confronted with a cardiac arrest patient, the following conditions must be present in order to honor the DNR request and withhold CPR and ALS therapy:

a. Out-of-Hospital Do Not Resuscitate (OOH-DNR) - or - OOH-DNR ID device; (Original or Copy)

b. Valid Out-Of-Hospital Do Not Resuscitate Written Order (Original or Copy) or Device from any (US) State or Territory;

c. A licensed physician on scene or in contact by telephone orders that no resuscitation efforts are to take place 2. A DNR request may be overridden by:

a. The patient or person who executed the order destroying or directing someone in their presence to destroy the form and/or remove the identification device.

b. The patient or person who executed the order telling the EMS Providers or attending physician that it is his/her intent to revoke the order.

c. The attending physician or physician's designee, if present at the time of revocation, recording in the patient's medical record the time, date and place of the revocation and enters "VOID" on each page of the OOH-DNR.

3. In the event there is a question regarding whether to honor or not honor an OOH-DNR or Advanced Directive, contact OLMC as needed

4. An advanced directive does not imply that a patient refused supportive or palliative care.





Figure: 25 TAC §157.25 (h)	⁽²⁾ OUT-OF-HO	SPITAL DO-NOT-I	RESUSCITATE	(OOH-DNR) ORDEF	2
		XAS DEPARTMENT O			
		we immediately on the date of execution for by authorized medical or legal authority or		out-of-hospital settings. It remains in effect v are will be given as needed.	until
Person's full legal name			Dat	e of birth	Male Female
		ast 18 years of age. I direct that no pacing, defibrillation, advanced		ation measures be initiated or cont ial ventilation.	inued for me:
Person's signature			Date	Printed name	
		f the adult person who is incompe		of communication: as of the above-noted person who is in	a competent or otherwise
am the: legal guardian;		Power of Attorney, OK	entally or physically incapabl	e of communication.	
		of the best interest of the person, I d cardiac pacing, defibrillation, ad		ring resuscitation measures be initi t, artificial ventilation.	ated or continued for the
Signature		Date	P	rinted name	
. Declaration by a qualified re	elative of the adult person who is	s incompetent or otherwise incap	able of communication: I ar	n the above-noted person's:	
🗆 spouse, 📄 adult child,	🗖 parent, OR 📋 nearest	living relative, and I am qualified to	make this treatment decision	under Health and Safety Code §166.	.088.
o my knowledge the adult pers	on is incompetent or otherwise m	entally or physically incapable of co	mmunication and is without	a legal guardian, agent or proxy. Base	d upon the known desires of
		direct that none of the following ion, advanced airway management		nitiated or continued for the person	n: cardiopulmonary
Signature		Date		ated name	
person's attending physician ar				to the physician by a competent per fore two witnesses of an OOH-DNR in a non	
direct that none of the follow	ing resuscitation measures be in			itation (CPR), transcutaneous cardi	
advanced airway managemen Attending physician's	it, artificial ventilation.	B -1-1	Printed		
signature		Date	name	L	ic#
	e minor person: I am the minor's:	Dinarent: Dilegal	quardian: OR	managing conservator	
	e minor person: I am the minor's: minor as suffering from a termina		guardian; OR	managing conservator. suscitation measures be initiated o	r continued for the person:
A physician has diagnosed the	minor as suffering from a termina		hat none of the following re	suscitation measures be initiated o	r continued for the person:
A physician has diagnosed the	minor as suffering from a termina	l or irreversible condition. I direct t	hat none of the following re	suscitation measures be initiated o	r continued for the person:
A physician has diagnosed the cardiopulmonary resuscitation	minor as suffering from a termina	l or irreversible condition. I direct t	hat none of the following re airway management, artific	suscitation measures be initiated o	r continued for the person:
A physician has diagnosed the cardiopulmonary resuscitation Signature	minor as suffering from a termina	l or irreversible condition. I direct t	hat none of the following re airway management, artific	suscitation measures be initiated o	r continued for the person:
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Death, DNR & Termination of Resuscitation

INSTRUCTIONS FOR ISSUING AN OOH-DNR ORDER

PURPOSE: The Out-of-Hospital Do-Not-Resuscitate (OOH-DNR) Order on reverse side complies with Health and Safety Code (HSC), Chapter 166 for use by qualified persons or their authorized representatives to direct health care professionals to forgo resuscitation attempts and to permit the person to have a natural death with peace and dignity. This Order does NOT affect the provision of other emergency care, including comfort care.

APPLICABILITY: This OOH-DNR Order applies to health care professionals in out-of-hospital settings, including physicians' offices, hospital clinics and emergency departments. IMPLEMENTATION: A competent adult person, at least 18 years of age, or the person's authorized representative or qualified relative may execute or issue

IMPLEMENTATION: A competent adult person, at least 18 years of age, or the person's authorized representative or qualified relative may execute or issue an OOH-DNR Order. The person's attending physician will document existence of the Order in the person's permanent medical record. The OOH-DNR Order may be executed as follows:

Section A - If an adult person is competent and at least 18 years of age, he/she will sign and date the Order in Section A.

Section B - If an adult person is incompetent or otherwise mentally or physically incapable of communication and has either a legal guardian, agent in a medical power of attorney, or proxy in a directive to physicians, the guardian, agent, or proxy may execute the OOH-DNR Order by signing and dating it in Section B. Section C - If the adult person is incompetent or otherwise mentally or physically incapable of communication and does not have a guardian, agent, or proxy, then a qualified relative may execute the OOH-DNR Order by signing and dating it in Section C.

Section D - If the person is incompetent and his/her attending physician has seen evidence of the person's previously issued proper directive to physicians or observed the person competently issue an OOH-DNR Order in a nonwritten manner, the physician may execute the Order on behalf of the person by signing and dating it in Section D.

Section E. - If the person is a minor (less than 18 years of age), who has been diagnosed by a physician as suffering from a terminal or irreversible condition, then the minor's parents, legal guardian, or managing conservator may execute the OOH-DNR Order by signing and dating it in Section E. Section F. - If an adult person is incompetent or otherwise mentally or physically incapable of communication and does not have a guardian, agent, proxy, or available qualified relative to act on his/her behalf, then the attending physician may execute the OOH-DNR Order by signing and dating it in Section F with concurrence of a second physician (signing it in Section F) who is not involved in the treatment of the person or who is not a representative of the ethics or medical committee of the health care facility in which the person is a patient.

In addition, the OOH-DNR Order must be signed and dated by two competent adult witnesses, who have witnessed either the competent adult person making his/her signature in section A, or authorized declarant making his/her signature in either sections B, C, or E, and if applicable, have witnessed a competent adult person making an OOH-DNR Order by nonwritten communication to the attending physician, who must sign in Section D and also the physician's statement section.

Optionally, a competent adult person or authorized declarant may sign the OOH-DNR Order in the presence of a notary public. However, a notary cannot acknowledge witnessing the issuance of an OOH-DNR in a nonwritten manner, which must be observed and only can be acknowledged by two qualified witnesses. Witness or notary signatures are not required when two physicians execute the OOH-DNR Order in section F. The original or a copy of a fully and properly completed OOH-DNR Order or the presence of an OOH-DNR device on a person is sufficient evidence of the existence of the original OOH-DNR Order and either one shall be honored by responding health care professionals.

REVOCATION: An OOH-DNR Order may be revoked at ANY time by the person, person's authorized representative, or physician who executed the order. Revocation can be by verbal communication to responding health care professionals, destruction of the OOH-DNR Order, or removal of all OOH-DNR identification devices from the person.

AUTOMATIC REVOCATION: An OOH-DNR Order is automatically revoked for a person known to be pregnant or in the case of unnatural or suspicious circumstances.

DEFINITIONS

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Attending Physician: A physician, selected by or assigned to a person, with primary responsibility for the person's treatment and care and is licensed by the Texas Medical Board, or is properly credentialed and holds a commission in the uniformed services of the United States and is serving on active duty in this state. [HSC

§166.002(12)]

Health Care Professional: Means physicians, nurses, physician assistants and emergency medical services personnel, and, unless the context requires otherwise, includes hospital emergency department personnel. [HSC §166.081(5)]

Qualified Relative: A person meeting requirements of HSC §166.088. It states that an adult relative may execute an OOH-DNR Order on behalf of an adult person who has not executed or issued an OOH-DNR Order and is incompetent or otherwise mentally or physically incapable of communication and is without a legal guardian, agent in a medical power of attorney, or proxy in a directive to physicians, and the relative is available from one of the categories in the following priority:

1) person's spouse; 2) person's reasonably available adult children; 3) the person's parents; or, 4) the person's nearest living relative. Such qualified relative may execute an OOH-DNR Order on such described person's behalf.

Qualified Witnesses: Both witnesses must be competent adults, who have witnessed the competent adult person making his/her signature in section A, or person's authorized representatives making his/her signature in either Sections B, C, or E on the OOH-DNR Order, or if applicable, have witnessed the competent adult person making an OOH-DNR by nonwritten communication to the attending physician, who signs in Section D. Optionally, a competent adult person, guardian, agent, proxy, or qualified relative may sign the OOH-DNR Order in the presence of a notary instead of two qualified witnesses. Witness or notary signatures are not required when two physicians execute the order by signing Section F. One of the witnesses must meet the qualifications in HSC §166.003(2), which requires that at least one of the witnesses not: (1) be designated by the person to make a treatment decision; (2) be related to the person by blood or marriage; (3) be entitled to any part of the person's estate after the person's death either under a will or by law; (4) have a claim at the time of the issuance of the OOH-DNR against any part of the person's estate after the person's death; or, (5) be the attending physician; (6) be an employee of the attending physician or (7) an employee of a health care facility in which the person is a patient if the employee is providing direct patient care to the patient or is an officer, director, partner, or business office employee of the health care facility or any parent organization of the health care facility.

Report problems with this form to the Texas Department of State Health Services (DSHS) or order OOH-DNR Order/forms or identification devices at (512) 834-6700.

Declarant's, Witness', Notary's, or Physician's electronic or digital signature must meet criteria outlined in HSC §166.011

Publications No. EF01-11421 - Revised July 1, 2009 by the Texas Department of State Health Services

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On-Line Medical Control

Contacting Medical Control Policy:

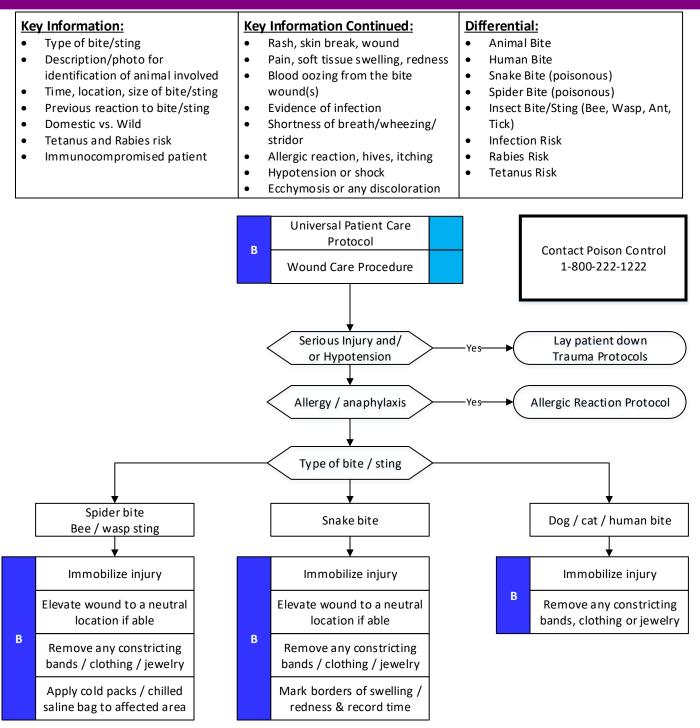
Medical control will be contacted when any situation occurs that requires clarification, or required deviation, involving the most appropriate care for patients that TCESD #5 EMS personnel provide care to.

- A. Based on medical necessity, Medical Director or Medical Control may choose to deviate from the normal patient care protocols.
- B. If medical care is provided to a patient by TCESD #5 EMS personnel that deviates from the current patient care protocols, The EMS Coordinator or EMS Chief must be contacted in order to initiate the QA/QI process.
- **II.** Steps to contact medical control are:
- A. TCESD #5 Medical Director, Dr. Michael Zimmerman, will be contacted via mobile phone, at 847-293-6556.

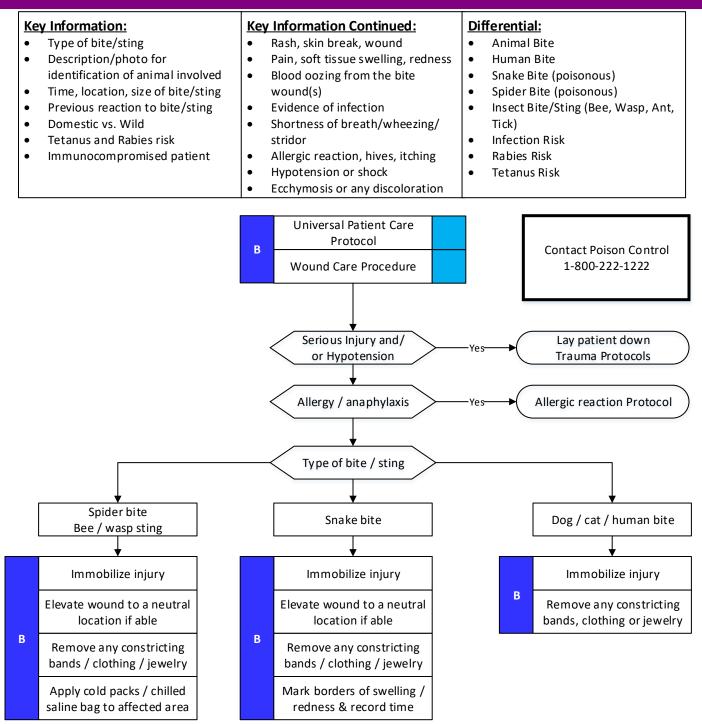
If contact is not made on the first attempt, Seton Williamson County ER is to be contacted, see below.

- B. Contact Seton Williamson Medical Center ER (SMCW) by radio or phone.
- C. Await arrival of Austin Travis County EMS.

Adult Bites & Envenomations

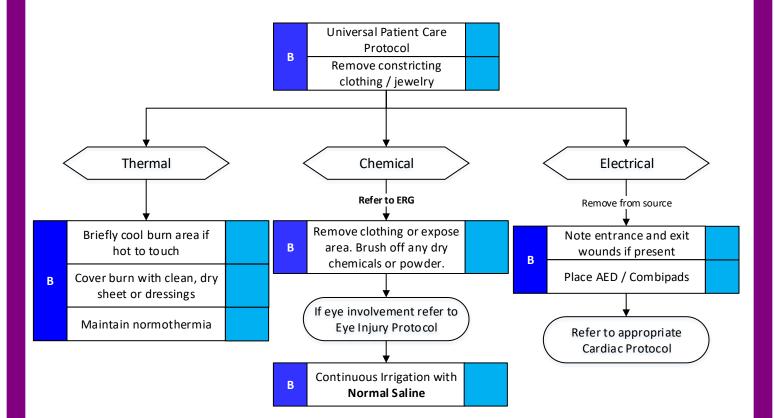


Pediatric Bites & Envenomations



Adult Burns

Ke	y Information:	Ke	y Information Continued:	Di	fferential:
•	Type of exposure (heat, gas	•	Dizziness	•	Superficial - red and painful
	chemical, electrical)	•	Loss of consciousness	•	Partial thickness - blistering
•	Inhalation injury	•	Hypotension/ shock	•	Full thickness - painless and
•	Time of injury	•	Airway compromise		charred or leathery skin
•	Other trauma		-Respiratory distress	•	Chemical
•	Loss of consciousness		-Singed facial or nasal hair	•	Thermal
•	Tetanus/ Immunization status		-Hoarseness	•	Electrical
•	Burns, pain, swelling		-Wheezing or stridor	•	Radiation



Critical or Serious Burns: Transport to burn center, or trauma center if impractical:

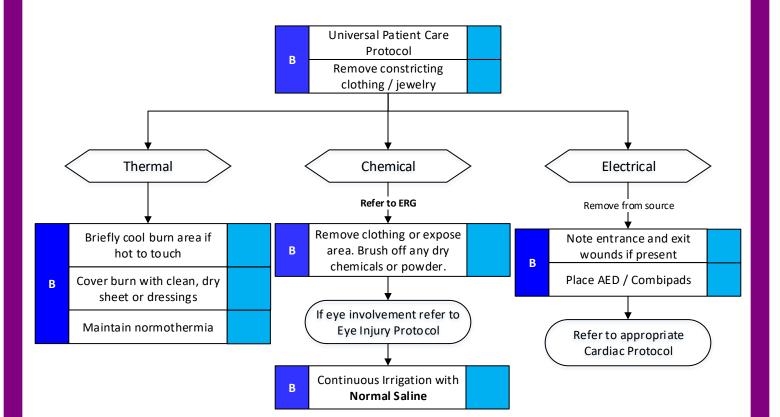
- -BSA > 10% Partial Thickness burns
- -Any Full Thickness burns
- -Circumferential burns of extremities
- -Burns to face, eyes, hands or feet or genitalia
- -Chemical burns

-Inhalation injury or respiratory burns

- -Electrical burns or lightning injuries
- -Age >65, or patients with chronic disease

Pediatric Burns

Key Information:	Key Information Continued:	Differential:
• Type of exposure (heat, gas	Dizziness	• Superficial - red and painful
chemical, electrical)	Loss of consciousness	Partial thickness - blistering
Inhalation injury	Hypotension/ shock	• Full thickness - painless and
Time of injury	Airway compromise	charred or leathery skin
Other trauma	-Respiratory distress	Chemical
Loss of consciousness	-Singed facial or nasal hair	Thermal
Tetanus/ Immunization status	-Hoarseness	Electrical
Burns, pain, swelling	-Wheezing or stridor	Radiation



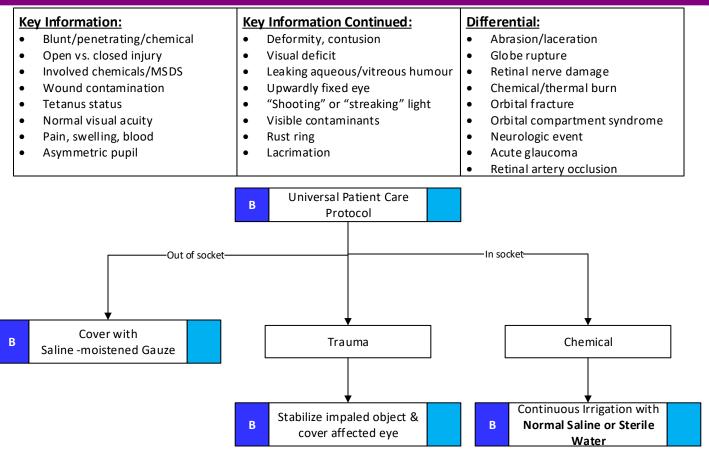
Critical or Serious Burns: Transport to burn center, or trauma center if impractical:

- -BSA > 10% Partial Thickness burns
- -Any Full Thickness burns
- -Circumferential burns of extremities
- -Burns to face, eyes, hands or feet or genitalia

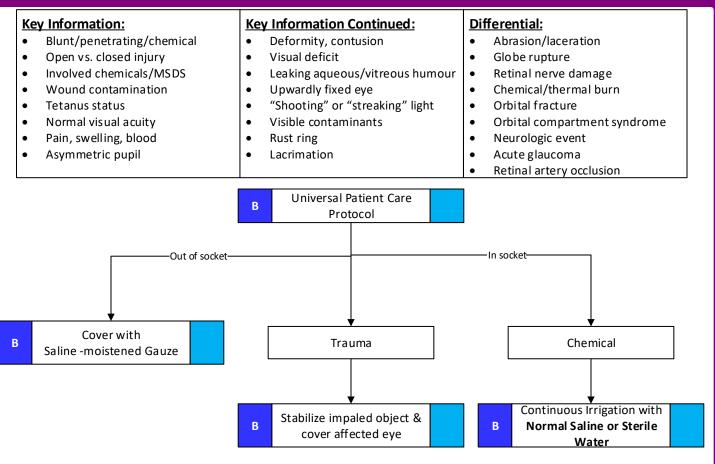
-Inhalation injury or respiratory burns
-Chemical burns
-Electrical burns or lightning injuries

PEDI T-02

Eye Injury / Complaint

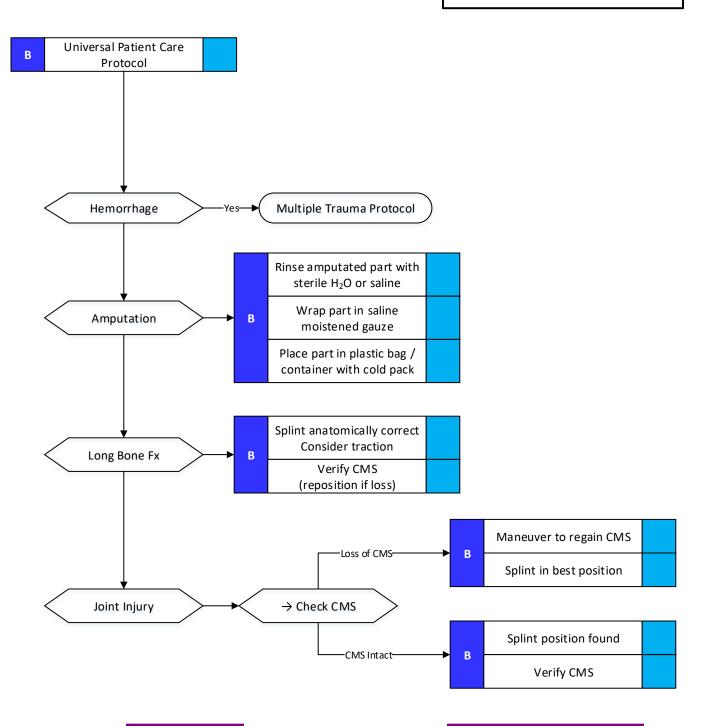


Pediatric Eye Injury / Complaint



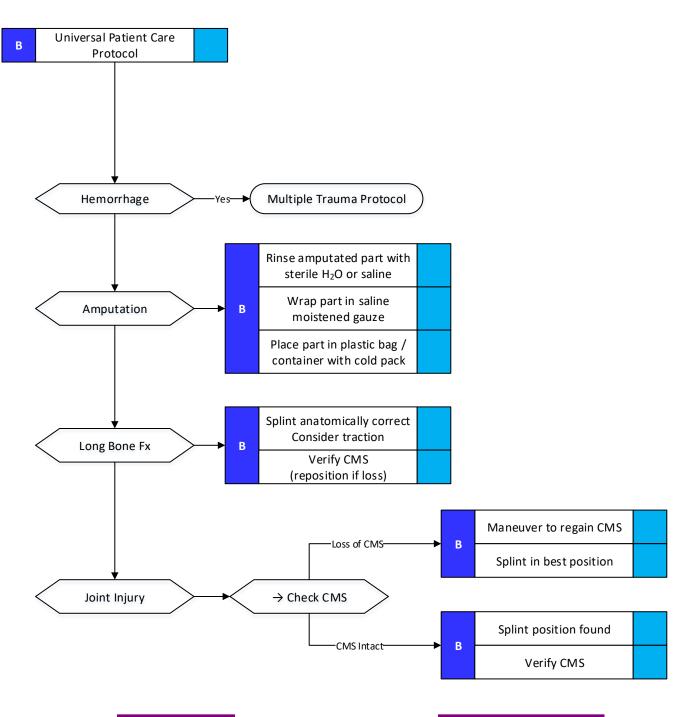
Extremity Trauma

Key Information:	Key Information Continued:	Differential:
• Type of injury	Time of injury	Deformity
Mechanism	• Pain, swelling	Contusion
-Crush	Deformity	Abrasion
Penetrating	Altered sensation/ motor function	Puncture/ penetration
-Amputation	• Diminished pulse/ capillary refill	Tenderness
Open vs. closed	• Decreased extremity temperature	Laceration
Wound contamination		Swelling
		Amputation

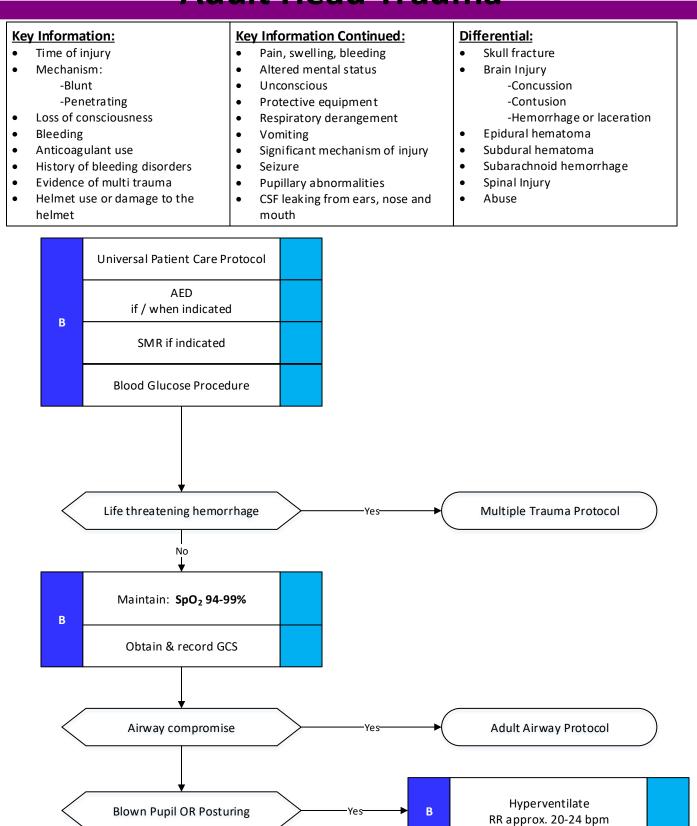


Pediatric Extremity Trauma

Key Information:	Key Information Continued:	Differential:
• Type of injury	Time of injury	Deformity
Mechanism	• Pain, swelling	Contusion
-Crush	Deformity	Abrasion
Penetrating	Altered sensation/ motor function	Puncture/ penetration
-Amputation	• Diminished pulse/ capillary refill	Tenderness
Open vs. closed	• Decreased extremity temperature	Laceration
Wound contamination		Swelling
		Amputation



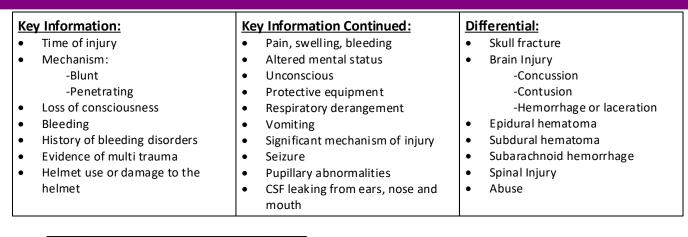
Adult Head Trauma

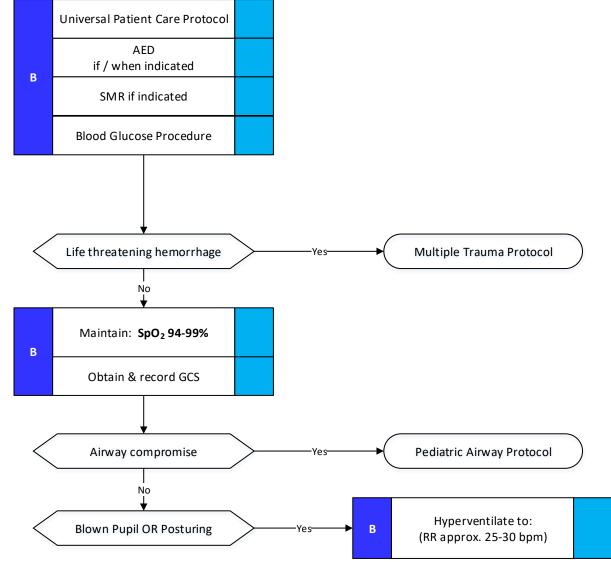


Pearls:

- Avoid hypoxia or hyperoxia. Both lead to poor outcome.
- Elevate head of bed 30 degrees if hemodynamically stable.

Pediatric Head Trauma

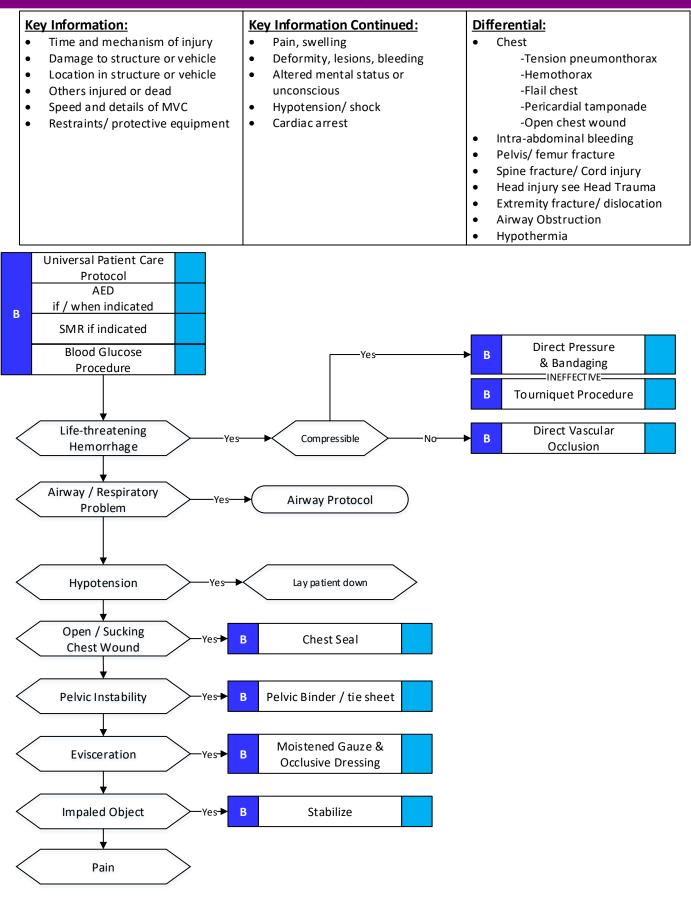




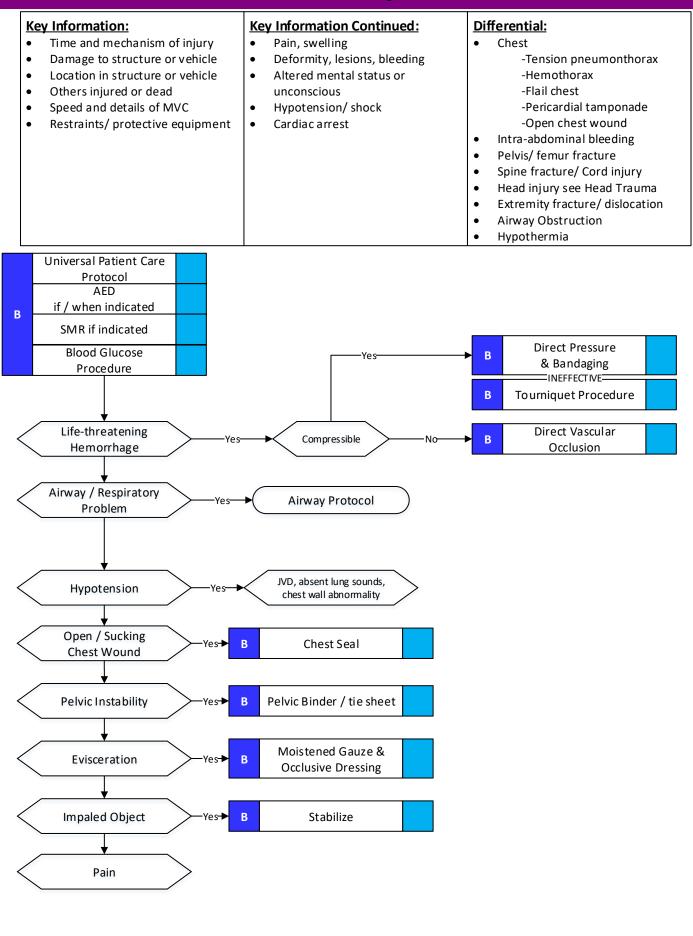
Pearls:

- Avoid hypoxia or hyperoxia. Both lead to poor outcome.
- Elevate head of bed 30 degrees if hemodynamically stable.
- Normotension SBP ≥ 80 + (2 x Age in years)

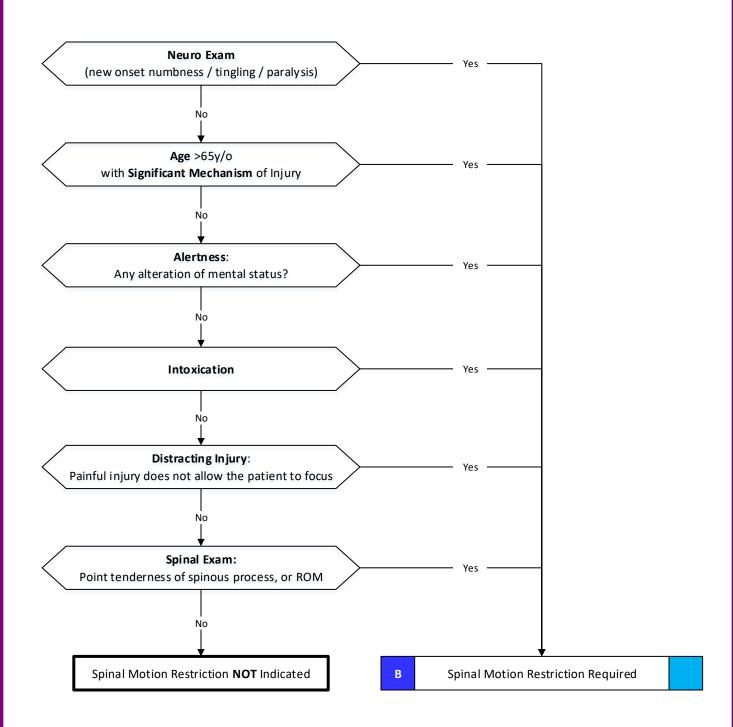
Adult Multiple Trauma



Pediatric Multiple Trauma



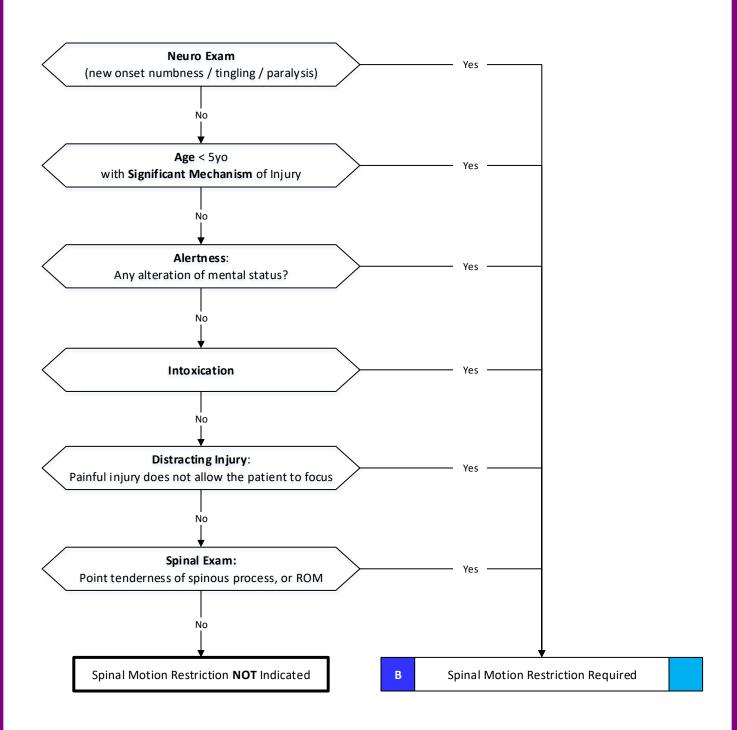
Spinal Motion Restriction (SMR)



Significant Mechanism of Injury Guidelines:

- High velocity MVC ≥ 40 mph at impact
- Unrestrained occupant in MVC
- Passenger compartment intrusion > 12 inches
- Ejection from vehicle
- Motorcycle collision > 20 mph
- Death in same vehicle
- Pedestrian struck by vehicle
- Falls ≥ 3 times the patient's height
- Diving Injury

Pediatric Spinal Motion Restriction

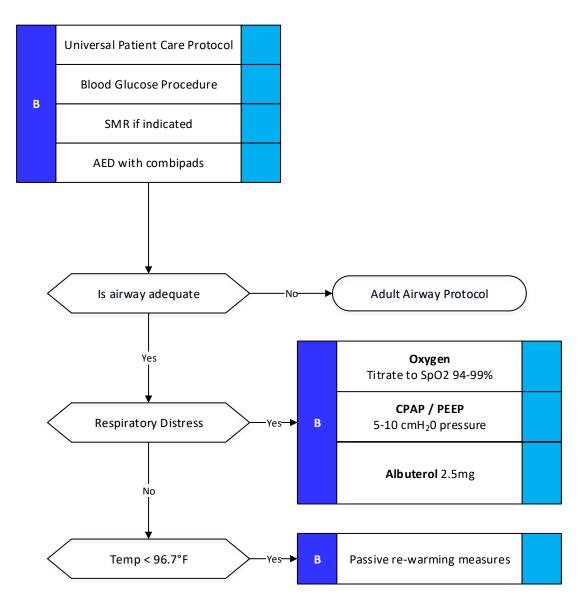


Significant Mechanism of Injury Guidelines:

- High velocity $MVC \ge 40$ mph at impact
- Unrestrained occupant in MVC
- Passenger compartment intrusion > 12 inches
- Ejection from vehicle
- Motorcycle collision > 20 mph
- Death in same vehicle
- Pedestrian struck by vehicle
- Falls ≥ 3 times the patient's height
- Diving Injury

Submersion Injury

Key Information:	Key Information Continued:	Differential:
 Submersion in water regardless of depth Possible trauma, ex. diving board Duration of submersion Type of water -Warm -Cold -Fresh -Salt Recent air travel 	 Unresponsive Mental status changes Decreased or absent vital signs Vomiting Coughing 	 Trauma Pre-existing medical problem Allergic Reaction AMI Pressure injury (diving) Barotrauma Decompression Illness Nitrogen Narcosis Pulmonary overpressure Pneumomediastinum

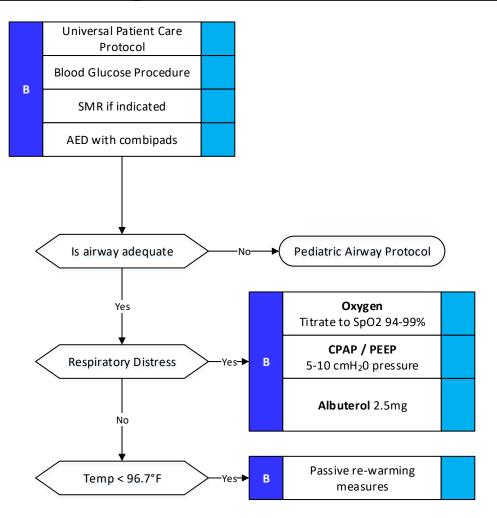


Pearls:

• All victims should be transported for evaluation due to potential for worsening over the next several hours.

Pediatric Submersion Injury

Key Information:	Key Information Continued:	Differential:
• Submersion in water regardless of	Unresponsive	• Trauma
depth	Mental status changes	Pre-existing medical problem
• Possible trauma, ex. diving board	• Decreased or absent vital signs	Allergic Reaction
Duration of submersion	Vomiting	• AMI
Type of water	Coughing	Pressure injury (diving)
-Warm		-Barotrauma
-Cold		-Decompression Illness
-Fresh		-Nitrogen Narcosis
-Salt		-Pulmonary overpressure
Recent air travel		-Pneumomediastinum

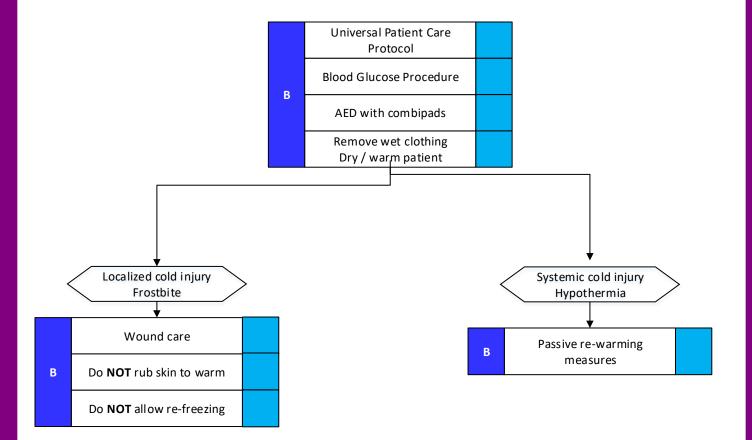


Pearls:

• All victims should be transported for evaluation due to potential for worsening over the next several hours.

Adult Hypothermia / Frostbite

Key Information:		Key Information Continued:		Dif	Differential:	
•	Age	•	Altered mental status	•	Metabolic disorder	
•	Time of exposure to cold and/or	•	Shivering	•	Toxins	
	wet environment, may occur even	•	Extremity pain or sensory	•	Environmental exposure	
	in a normothermic environment		abnormality	•	Sepsis	
•	Time of exposure to a windy	•	Bradycardia	•	Hypoglycemia	
	environment	•	Hypotension/Shock	•	CNS dysfunction	
•	Drug use/abuse:	•	Paralysis		-Stroke	
•	-Alcohol	•	Paresthesia (pins and needles		-Head injury	
•	-Barbituates		feeling)		Spinal cord injury	
•	Infection/sepsis	•	Blackened extremities	•	Frostnip	
ł	-	•	Blisters	•	Frostbite	

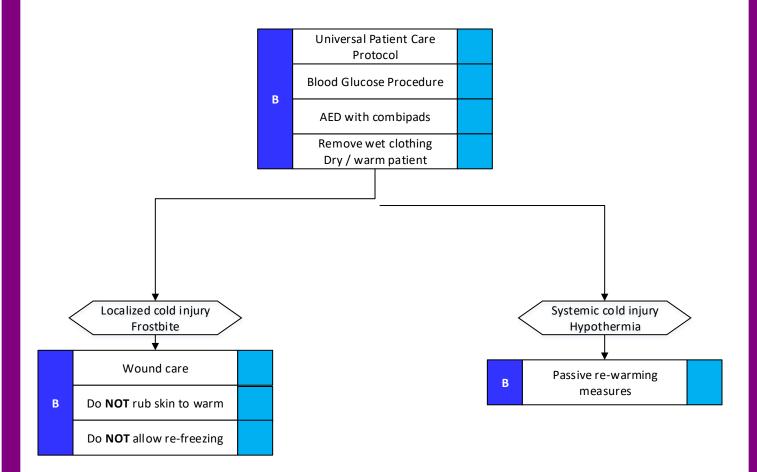


Pearls:

• Handle severe hypothermia patients very gently, they are at risk for VF arrest.

Pediatric Hypothermia / Frostbite

Key Information:	Key Information Continued:	Differential:	
• Age	Altered mental status	Metabolic disorder	
• Time of exposure to cold and/or	Shivering	Toxins	
wet environment, may occur even	Extremity pain or sensory	Environmental exposure	
in a normothermic environment	abnormality	Sepsis	
• Time of exposure to a windy	Bradycardia	Hypoglycemia	
environment	Hypotension/Shock	CNS dysfunction	
• Drug use/abuse:	Paralysis	-Stroke	
-Alcohol	• Paresthesia (pins and needles	-Head injury	
-Barbituates	feeling)	Spinal cord injury	
Infection/sepsis	Blackened extremities	Frostnip	
	Blisters	Frostbite	

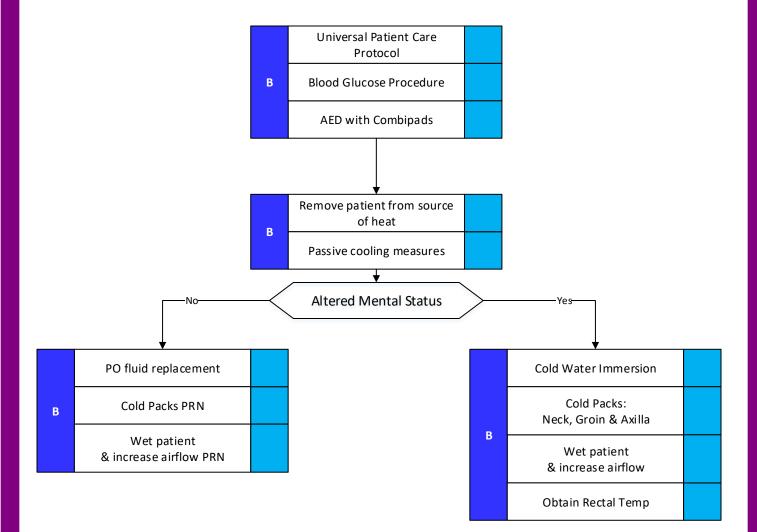


Pearls:

• Handle severe hypothermia patients very gently, they are at risk for VF arrest.

Adult Hyperthermia

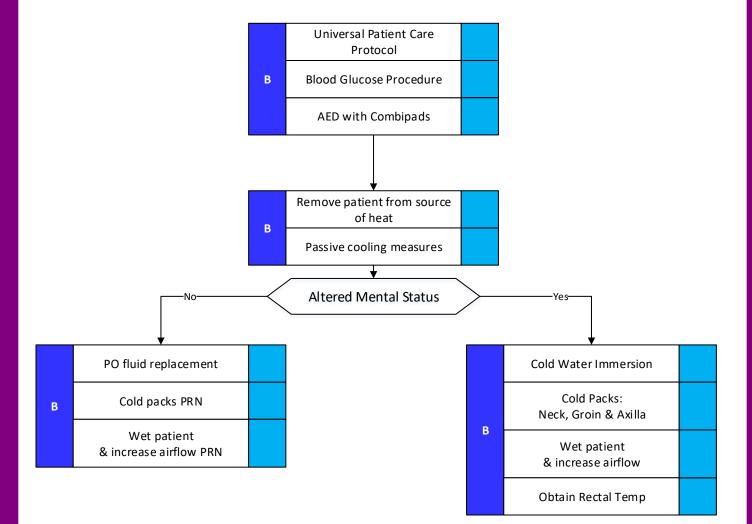
Key Information:		Key Information Continued:	Differential:	
•	Age	Altered Mental status	• Fever	
	Exposure to increased temperatures and/or humidity	Hot, dry or sweaty skinHypotension or shock	DehydrationMedications	
•	Time and duration of exposure	Seizures	Hyperthyroidism (Thyroid Storm)	
	Poor PO intake or extreme exertion	Nausea/VomitingSkin turgor	Excited DeliriumHeat cramps/Heat exhaustion/	
•	Fatigue and/or muscle cramping		Heat strokeCNS lesion	



• Cold Packs may be bags of chilled saline, chilled water, or ice.

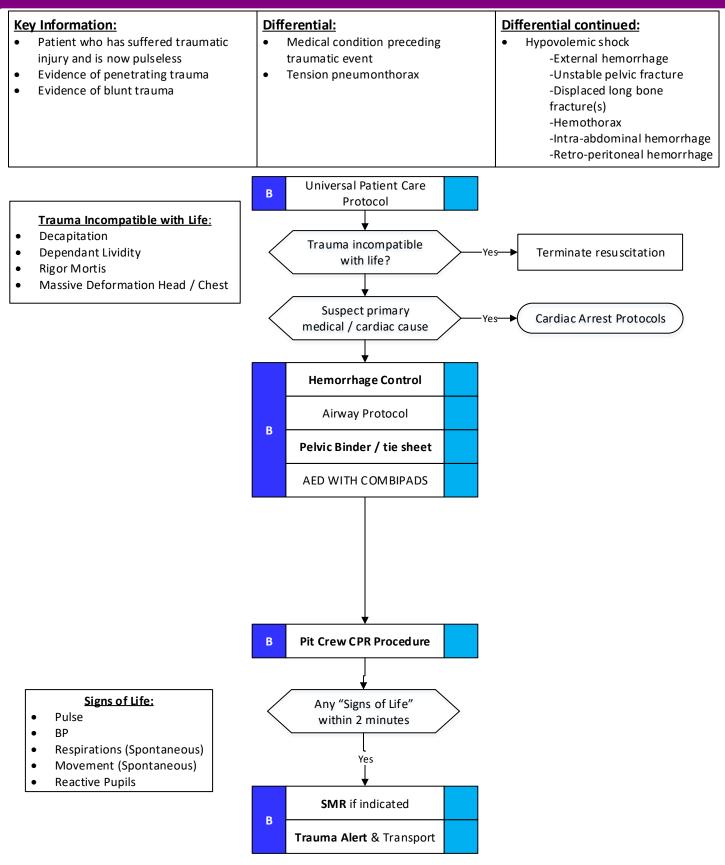
Pediatric Hyperthermia

Key Information:	Key Information Continued:	Differential:	
 Age Exposure to high ambient temperature Time and duration of exposure 	 Altered Mental status Hot, dry or sweaty skin Hypotension or shock Seizures 	 Fever Dehydration Medications Hyperthyroidism (Thyroid Storm) 	
 Poor PO intake or exertion Number of wet diapers/ restroom usage Fatigue and/or muscle cramping 	Nausea/VomitingSkin turgor	 Excited Delirium Heat cramps/Heat exhaustion/ Heat stroke CNS lesion 	

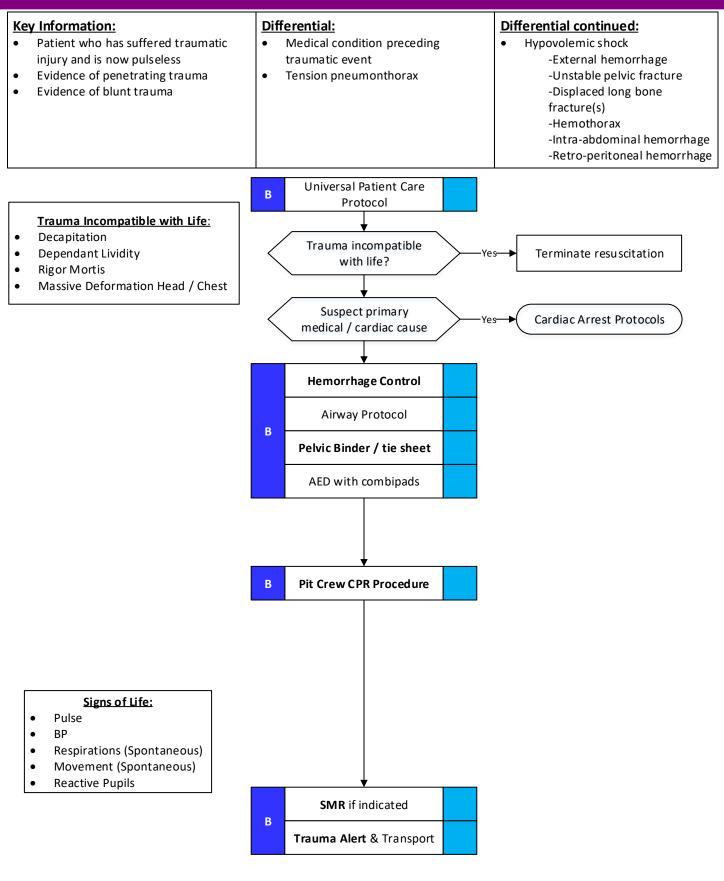


• Cold packs may be made of chilled saline, chilled water, or ice.

Adult Trauma Arrest

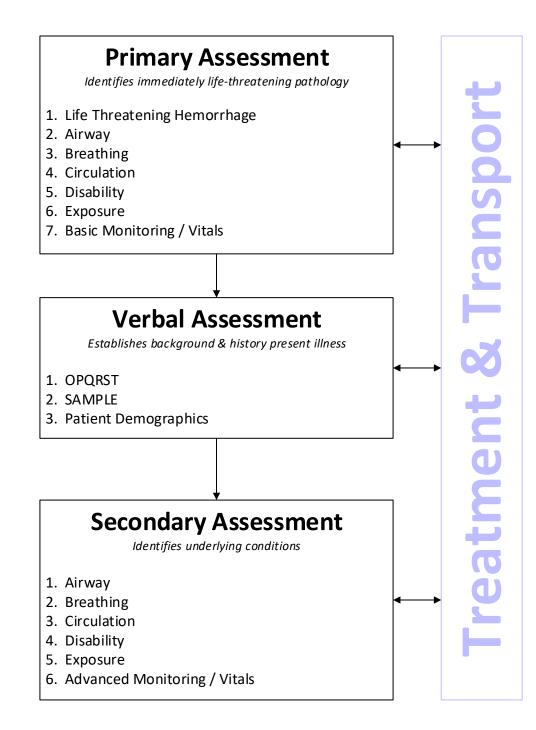


Pediatric Trauma Arrest



Universal Patient Care

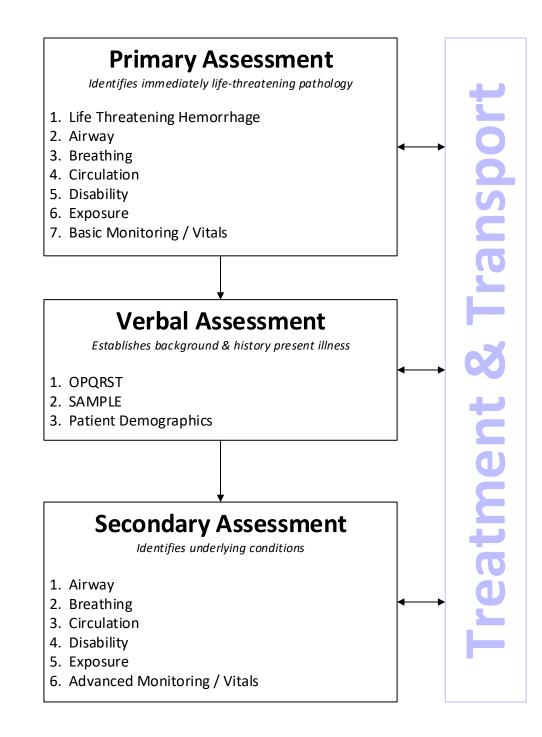




• To be used in parallel with any and all applicable COGs; with respect to training and clinical judgment of prehospital team.

Universal Patient Care - Pediatric

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To be used in parallel with any and all applicable COGs; with respect to training and clinical judgment of prehospital team.