

Paramedic

Study Guide

Knowledge Objectives
Clinical Operating Guidelines
02.04.15

This study guide encompasses all the knowledge objectives for the Austin/Travis County EMS System Clinical Operating Guidelines (COG). Every exam question will reference one or several knowledge objectives found in this document. This study guide follows the COG released for February 4, 2015. In addition, some knowledge objectives covered here address basic paramedic knowledge, as it is expected that the paramedic will have a knowledge base appropriate for his or her certification level.

Review of this study guide will cover every point on the COG exam. More importantly, it is designed to prepare the provider to use the COG to provide patient care to the citizens of Austin/Travis County.

It is suggested that the provider first read the appropriate section of the COG then review the objectives.

As always if there are any questions please feel free to contact the OMD at www.atcmd/contact.htm or call the office at 978-0000.



Clinical Standard Documents

Atypical Protocol Utilization and Online Medical Direction

- Describe the purpose for the standard
- Describe the two types of clinical encounters requiring the use of this protocol
- Describe how you would utilize this protocol
- Identify who can provide medical direction

Cancellation or Alteration of Response

- Describe the purpose for the standard
- Describe how a provider may modify or cancel the response of another System Provider not already on scene
- Explain how a cancelled provider should respond to the cancellation or alteration of response

Child Abuse (<18 Years Old) Recognition and Reporting

- Describe the principles for the assessment of an abused child
- Describe the purpose of this protocol
- Describe the circumstances under which you are required to report
- Describe how you must report
- Identify steps in the application of this protocol
- Describe how and what you will document
- Explain information you will include in the hand-off of the patient

System Performance Improvement

- Describe the purpose of this standard
- Describe the functions of performance improvement
- Discuss what happens if an organization or provider refuses to participate in a performance improvement program

Crime Scene Preservation Principles/Access to Patients in a Potential Crime Scene

- Explain the first general principle of crime scene management
- Identify who will be notified should law enforcement prevent entrance to a scene
- Identify how a weapon will be handled if it is necessary
- Describe documentation required for a crime scene
- Explain what you would tell a patient who wants to take a shower/bath prior to transport
- Explain how you would handle bindings on a patient
- Describe how you would handle containers of a substance that may have been ingested in a suicide attempt
- Identify what you will do with disposable items used on scene
- Explain how to manage covering a body on scene
- Identify who takes responsibility of the body once a pronouncement time is obtained

- Explain whether or not it is acceptable to share patient care information with appropriate law enforcement officers if the patient has been pronounced dead
- Describe how the responder will make entry and exit from a crime scene where no resuscitation is initiated
- Explain how to document items left on scene
- Explain what the responder will do if law enforcement is not on scene prior to transport of the patient
- Explain what must be done with any unsuccessful intravenous or pleural attempts
- Describe what information must be passed to the receiving facility if the patient has been placed on a sheet
- Describe the different crime scene management scenarios

Initiation and Termination of Cardiopulmonary Resuscitation (CPR)

Initiation of CPR

- Explain when it is not appropriate to initiate CPR
- Identify reasons a provider may determine not to start CPR
- Discuss “signs of obvious death”

What is the Definition of a “Patient”?

- Explain why it is important to define a patient
- Define “patient”
- Explain what you will do if there are questions or doubts as to whether or not a person should be considered a patient
- Describe how you would handle an adult patient that does not fit the definition of a patient
- Define “adult”
- Define “minor”
- Explain the meaning of “emancipated”
- Define “pediatric patient”

Discontinuation of Prehospital Resuscitation

- Explain the purpose of the standard
- Describe who may discontinue resuscitation efforts without OLMC
- Describe the circumstances under which a provider may discontinue resuscitation efforts
- Discuss the criteria that must be met for a suspected medical cause of arrest
- Describe what will continue while on a call to the System Medical Director to acquire permission to terminate
- Describe what should be documented under these circumstances

DNR Advanced Directions

- Describe the purpose of the standard
- Define the standard
- Explain exceptions to this standard
- Describe the application of this standard
- Describe the conditions that must be present in order to honor a DNR
- Describe when a DNR may be overridden

Documentation of Patient Care Report

- Describe the purpose of a standard
- Explain the application of the standard as appropriate for your credentialing level

Documentation Vital Signs

- Describe the purpose of this standard
- Explain the standard
- Describe what an “initial complete set of vital signs” includes
- Explain when palpated blood pressures may be acceptable
- Discuss what other vital signs might be appropriate depending on patient condition and complaint
- Describe what to do if a patient refuses vital signs
- Describe what should be done if there is an abnormal vital sign
- Explain how often vital signs should be acquired

Domestic Violence (≥ 18 years old) (Partner and/or Elder Abuse) Recognition and Reporting

- Describe this standard
- Define the principles of this standard
- Explain the assessment of these patients
- Describe how you will report these circumstances

Emergency Medical Dispatch

- Describe the purpose of the standard
- Describe the circumstances under which an EMS unit or first responder dispatched for a Code 1 response can upgrade to a Code 3 response
- Explain when a responder might be diverted to another call
- Explain when a responder may bypass another call

BLS Transport Decision Process (Transport Only)

- Describe the application of this protocol
- Explain who is responsible for conducting an initial evaluation
- Explain who decides when a patient may be transported by a BLS provider
- Describe the conditions under which a patient CANNOT be transferred to a lower-level provider
- Explain the exceptions to the listed items
- Explain what should be documented

Hospital Diversion (Transport Only)

- Describe the purpose of this standard
- Explain a “Black-Internal Disaster”
- Describe a “Black-Trauma Priority”
- Describe how you would handle the situation if a hospital attempts to divert for other than the listed circumstances
- Describe how you will address a diversion situation with your patient
- Describe the circumstances under which a Supervisor could close a hospital to EMS transport

Identification Badges

- Explain the purpose of this standard
- Define this standard
- Explain how identification is required for TDSHS
- Explain how badges will be worn
- Explain what level a provider will participate in if the provider does not have a badge
- Explain what would happen if a provider performs outside his/her scope of practice

Infant Abandonment

- Describe the standard
- Explain the purpose of the standard
- Describe the application of this standard

Inter-facility Transfers (Transport Only)

- Explain the purpose for this standard
- Describe what must happen if the patient is on a medical device not used in the System
- Explain what patients are exempt from the usual documentation requirements for a transfer
- List the equipment required for transfers

Memorandum of Transfer (MOT) (Transport Only)

- Describe the purpose of this standard
- List the things that must be on the MOT
- Discuss what circumstances a medic can divert from the arranged destination
- Under what circumstances can a provider follow the orders of the transferring physician
- List the exceptions for the MOT requirements

Minimal Equipment Patient Side

- Explain the purpose of this standard
- List the items that you must have immediately available for patient care

On-Scene Authority Patient Care

- Explain the purpose of this standard
- Explain how you would handle any disagreement regarding circumstances relating to patient care
- Explain who has the final authority and responsibility for decisions regarding patient care
- Describe the seniority of credentials in order
- Explain how unresolved conflicts regarding on-scene management of patients will be handled

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Patients with Special Healthcare Needs

- Explain the purpose of the standard
- Describe how you would problem-solve a situation where a patient has equipment that the provider is not familiar with

Physician on Scene

- Explain the standard
- Explain the purpose of the standard
- Describe the application of the standard
- Describe how you will handle a physician on-scene
- Describe how you would manage a patient's personal physician on-scene
- Explain how you would manage an intervener physician on-scene

Office of the Medical Director Credential Audit

- Explain the purpose of this standard
- Describe the application of this standard

Provider Credentialing

- Explain the difference between "Certification or Licensure" and "Credential to Practice"
- Explain the purpose of this standard
- List the levels of credentialing
- Describe what is required to obtain and maintain your credentials to practice at your level

Refusal of Treatment and/or Transport

- Explain this standard
- Describe the purpose of this standard
- Define Informed Consent/Refusal
- Define Implied Consent
- Define Substituted (surrogate) Consent
- Describe who may consent to, or refuse, the evaluation, treatment, and/or transportation of a minor
- Describe the application of this standard
- Describe what must be in place for all patients refusing treatment and/or transport

- An ATCEMS System Provider SHALL NOT discourage any patient (or legal patient representative) from seeking medical care from a physician or from accepting EMS transport to a hospital
- Describe your responsibilities if a patient with present mental capacity wants to refuse care
- Explain how you will document a refusal of treatment and/or transport

Safe Transport of Patients

- Describe the purpose of this standard
- Describe how you will apply this standard
- Describe how pediatric patients less than 40 kg should be restrained in a moving transport vehicle
- Identify when you can and cannot use a pediatric patient's child seat for securing the patient during transport

OMD Modification or Revocation of Credential to Practice

- Describe this standard
- Explain the purpose for this standard
- Describe Unrestricted Status
- Describe OMD Administrative Hold
- Describe Suspended status
- Describe a Modified Credential Status
- Describe a Voluntary Surrender of a credential
- Describe Revocation of credential
- Explain reasons a Provider might be placed on Administrative Hold
- Describe what must happen if there is action taken against a provider's certification/license by TDSHS
- Describe when a provider or sponsoring agency must report a crime to the OMD
- Describe the process for removing an OMD Administrative Hold
- Describe why a provider's credential might be suspended
- Explain the process for suspension of a credential
- Define a modified credential status
- Explain when a provider's credential may be modified
- Describe temporary assignment
- Describe the circumstances under which a provider may have their credentials revoked (be very familiar with these)
- Explain the process for revocation of credentials

System Design

- Explain the purpose of this standard
- Describe the application of this standard
- Describe the conditions under which a provider can, indeed, provide patient care
- Discuss the conditions under which a provider IS NOT covered by the ATCEMS Medical Director

Transport Destination Decision (Transport Only)

- Discuss the purpose of this standard
- Describe how a provider will determine where a patient will and should be transported
- Describe the steps a provider will take if a patient refuses transport to an appropriate facility

Transfer of Care to Provider of Lesser Credentials

- Describe the necessity for this standard
- Explain the purpose for this standard
- Describe the circumstances under which a patient’s care can be transferred to a provider of lesser credentials

STEMI Alert Criteria (ALS Only)

- Describe how a patient will meet criteria for a STEMI Alert
- Describe how a STEMI Alert should be called
- Describe ACS Consult Criteria
- Explain how a provider would decide between a STEMI Alert and an ACS Consult

Stroke Alert Criteria

- Describe the criteria for calling a Stroke Alert
- Describe how a Stroke Alert can be called
- Identify who can call a stroke alert

Request for Service by Individuals at a Hospital

- Describe the purpose of this standard
- Describe who this standard applies to
- Explain the responsibility of a responder who may make the first patient contact

Clinical Protocols

Universal Patient Care

- Describe the contents of a thorough patient history
- Describe the parts of a primary assessment
- Describe the contents of a secondary assessment
- List what is included in a complete set of vital signs
- Describe when it would be appropriate to check a patient’s glucose
- Discuss the minimum exam for every patient
- Describe when it is appropriate to acquire a 12-lead ECG/EKG as quickly as possible
- Describe when it is appropriate to consider starting an IV

IV Access

- Discuss when it is appropriate to consider acquiring intraosseous access
- Discuss what medications and fluids are appropriate for administration through an intraosseous device
- Describe the “normal” IV rate unless giving fluid boluses or medications
- Discuss pros and cons of different IV access sites
- Discuss the IV decision making process
- Discuss the concerns to consider with a patient who has a mastectomy or a dialysis shunt/fistula
- Describe IV access for the Trauma Arrest patient

Patient Safety

- Describe the responsibility a provider has regarding medical equipment
- Describe the responsibilities of a provider to check at the beginning of every shift
- Describe the responsibility of a provider if a piece of patient care equipment fails to function as it was intended while managing a patient
- Describe what a provider should do if involved in a medication error, clinical misadventure, or other adverse patient outcome
- Describe the notification sequence

Deceased Person

- Describe the history a provider should acquire
- Describe signs/symptoms consistent with a deceased person
- Discuss how a patient would meet criteria for Obvious Death or a DNR (CS-06)
- Explain how a provider should request Law Enforcement
- Explain when victim services should/could be utilized
- Describe criteria for withholding resuscitation

Spinal Motion Restriction (SMR)

- List conditions under which spinal motion restriction is required
- Describe the recommended exam in the Pearls
- Discuss other situations where the standard criteria for spinal motion restriction might not be sufficient and the patient should probably be placed in SMR
- Under what circumstances should a patient’s ROM NOT be checked
- Describe how ROM should be checked

Adult Protocols

Airway

- Describe how a provider would determine how a provider would determine the appropriate oxygen therapy
- Describe when an advanced airway is not required
- Describe the only circumstances under which a patient would be hyperventilated
- Describe when a BIAD would be inserted at the BLS level
- Discuss when direct laryngoscopy would be appropriate
- Discuss when a gastric tube would be appropriate

- Explain when the use of a BIAD would be appropriate at your skill level
- Discuss when it would be appropriate to consider nasal-tracheal intubation
- Discuss when it would be appropriate to consider oral-tracheal intubation

Adult Failed Airway

- Discuss when you would continue ventilation with a BVM and OPA/NPA
- Discuss what to do if the first intubation attempt fails
- Describe the use of a BIAD if it is providing good ventilatory exchange and is performing appropriately
- Discuss the use of Sellick's and/or BURP procedure
- **Note:** max total of three (3) intubation attempts

Pulmonary Edema

- Discuss contents of the patient's history
- Describe the signs and symptoms consistent with Pulmonary Edema
- Discuss the differential for Pulmonary Edema
- Discuss the use of nitroglycerin for these patients including indications, contraindications, actions, and dosing
- Discuss the indications, contraindications, dosing, and action of enalaprilant (Vasotec) for these patients
- Discuss the concern for myocardial infarction with these patients

Respiratory Distress

- Discuss contents of the patient's history that are appropriate for a patient with respiratory distress
- Describe signs and symptoms with a patient with respiratory distress
- Discuss differentials appropriate for a patient with respiratory distress
- Describe the concerns if your patient has a silent chest with respiratory distress signs and/or symptoms
- Describe the circumstances where a patient would receive a normal saline nebulized treatment
- Discuss the circumstances in which a patient would receive albuterol
- Discuss the circumstances in which a patient would receive CPAP
- Discuss the use of albuterol and ipratropium bromide including indications, contraindications, actions, and dosing
- Discuss indications for the use of an epinephrine neb
- Discuss indications, contraindications, dosing, and action of methylprednisolone for the respiratory distress patient
- Discuss indications, contraindications, dosing, and action of magnesium sulfate in the respiratory distress patient
- Discuss the use of IM epinephrine in the respiratory distress patient

Cardiac Arrest

- Discuss appropriate history to ask when a patient is in cardiac arrest
- Discuss criteria for withholding resuscitation
- Discuss CPR/Pit Crew Procedure
- Describe the AED procedure

- Describe the keys to success for cardiac arrest
- Discuss when you should not interrupt compressions
- Describe utilization of the cardiac arrest checklist
- Discuss the use of a fluid bolus in cardiac arrest
- **Note:** Do NOT interrupt compressions for airway placement, ventilation, or medication administration

Asystole/PEA

- Describe appropriate history to acquire for a patient with PEA/Asystole
- Discuss the differential for a patient in PEA/Asystole
- Discuss the CPR/Pit Crew Procedure
- Discuss the use of a fluid bolus
- Discuss common causes of both narrow and wide PEA
- Discuss treatments for treatable causes

Ventricular Fibrillation and Pulseless Ventricular Tachycardia

- Discuss the appropriate history to acquire for a patient with pulseless ventricular tachycardia
- Discuss AED procedure
- Describe when a patient's pulse will be checked
- Discuss indications, contraindications and dosing for epinephrine
- Discuss indications, contraindication and dosing for amiodarone
- Discuss the use of lidocaine in the v-fib, v-tach protocol
- Discuss when you might use magnesium, calcium, and/or sodium bicarbonate
- Discuss alterations to this protocol if you suspect hyperkalemic arrest
- Explain administration techniques for Magnesium sulfate
- Discuss treatment priorities for these patients
- Discuss differences in protocol if the patient has polymorphic ventricular tachycardia

Induced Hypothermia

- Identify criteria for induced hypothermia
- Describe BLS cooling techniques
- Discuss indications, contraindications, dosing, and actions for midazolam
- Discuss indications, contraindications, dosing, and actions for vecuronium
- Discuss dosing for cold saline
- Discuss indications, contraindications, dosing, and actions for norepinephrine
- Discuss transport considerations for these patients
- Discuss when you would NOT give a sedative/paralytic to these patients but WOULD initiate volume replacement with cold saline.

Post Resuscitation

- Discuss what the provider will do immediately post resuscitation
- Explain the parameters for ventilator support
- Explain why hyperventilation is bad
- Describe common causes of post-resuscitation hypotension
- Discuss the importance of a 12-lead ECG immediately after resuscitation

Persistent Ventricular Fibrillation & Pulseless Ventricular Tachycardia

- List the treatment priorities
- Explain the keys to successful resuscitation
- Discuss the double sequential external defibrillation procedure including indications and contraindications
- Discuss the use of lidocaine, magnesium sulfate, calcium chloride, and sodium bicarb in this protocol
- Discuss the importance of continuing high-quality compressions during this procedure

Chest Pain, Suspected Acute Coronary Syndrome

- Describe appropriate history for a patient complaining of suspected cardiac chest pain
- Discuss signs and symptoms for a patient with acute coronary syndrome
- Discuss the differential list for a patient with chest pain
- Discuss contraindications to the administration of aspirin
- List the dose for aspirin
- Describe the parameters for oxygen administration
- List the criteria for early 12-lead ECG/EKG acquisition
- Discuss indications, contraindications, dosing and repeat dosing for nitroglycerin
- Discuss indications, contraindications, dosing, and actions for fentanyl
- Discuss considerations for an inferior wall MI
- Discuss STEMI alert criteria
- Explain the need for a short scene time with STEMI patients

Bradycardia

- Discuss appropriate history for a patient with bradycardia
- Discuss signs and symptoms related to bradycardia
List differentials related to bradycardia
- Discuss the treatment plan if the patient is asymptomatic with bradycardia
- Discuss interventions for treatable causes
- Explain the use of an IV bolus for these patients
- Discuss indications, contraindications, dosing, and actions for atropine
- Discuss considerations for a wide-complex bradycardia
- Discuss indications for the use of transcutaneous pacing
- Discuss the use of glucagon in this protocol
- Explain when midazolam would be used in this protocol

Atrial Fibrillation with Rapid Ventricular Response

- Discuss appropriate history for a patient with a-fib with RVR
- Discuss signs and symptoms for these patients
- List differentials for patients with a-fib with RVR
- Discuss the use of pulse oximetry
- Discuss the considerations for the use of synchronized cardioversion vs. medication to slow the rate

- Discuss indications, contraindications, dosing, actions, and considerations for the use of Diltiazem
- Discuss possible side effects/complications with the use of midazolam

Supraventricular Tachycardia

- Describe appropriate history for a patient with SVT
- Discuss signs and symptoms related to SVT
- Discuss differentials for the patient with SVT
- Discuss the use of pulse oximetry
- **Note:** *although BLS providers may not have a monitor to identify SVT by monitor they can certainly identify an extremely rapid pulse*
- Discuss the decision-making process for synchronized cardioversion vs. valsalva's maneuvers and medications.
- Explain the synchronized cardioversion procedure
- Discuss indications, contraindications, dosing, and actions of adenosine

Wide Complex Tachycardia with a Pulse

- Discuss appropriate history for a patient with this condition
- Discuss common signs and symptoms associated with a wide complex tachycardia
- List differential considerations
- Discuss the decision-making process between synchronized cardioversion and medication-first treatment
- Discuss indications, contraindications, dosing, and action of amiodarone
- Discuss the use of lidocaine and magnesium sulfate for this protocol
- Explain the use of a lidocaine drip including dosage
- Discuss the importance of waiting 10 minutes in between amiodarone doses

Abdominal Pain

- Discuss appropriate history for a patient with abdominal pain
- Discuss signs and symptoms that may be associated in a patient with abdominal pain
- List appropriate differentials for a patient with abdominal pain
- Discuss when orthostatic vital signs are appropriate
- Discuss considerations for patients over 50 years old
- Discuss considerations for female patients of childbearing age

Allergic Reaction

- Discuss appropriate history for a patient with an allergic reaction
- Identify signs and symptoms associated with a patient with allergic reactions
- List appropriate differentials for a patient with allergic reactions
- Discuss the concerns with a very short onset from exposure to symptoms
- Describe, very specifically, the difference between a mild, moderate, or severe allergic reaction
- Describe when a patient should get epinephrine. Be able to recognize a scenario where a patient SHOULD NOT get epinephrine
- Discuss when to consider CPAP

- Identify signs and symptoms when it would be appropriate for the patient to receive diphenhydramine
- Discuss indications, contraindications, dosing, and actions of diphenhydramine
- Discuss the use of a fluid bolus for these patients
- Discuss the use of methylprednisolone for these patients
- Discuss when the use of epinephrine IM would be appropriate including need for redosing

Altered Mental Status

- Discuss appropriate history for a patient with altered mental status
- Discuss signs and symptoms associated with altered mental status patients
- List appropriate differentials for a patient with altered mental status
- Discuss when a patient might receive oral glucose
- Discuss contraindications to the administration of oral glucose
- Discuss concerns related to personal safety in relation to a patient with altered mental status
- Discuss treatment for patients who return to baseline after glucose administration and wish to refuse
- Discuss indications, contraindications, dosing, actions, and administration of D10
- Discuss when it would be appropriate to use Glucagon instead of glucose
- Discuss the use of a fluid bolus in the hyperglycemic patient
- Explain the importance of having these patients on a cardiac monitor and acquiring a 12-lead ecg
- Discuss how hyperglycemia is treated

Back Pain

- Discuss appropriate history for a patient with back pain
- Discuss signs and symptoms associated with a patient having back pain
- Discuss appropriate differentials related to a patient having back pain
- Discuss concerns in patients over the age of 50 years old
- Discuss indications for a fluid bolus for these patients

Behavioral

- Discuss appropriate history for a patient with behavioral issues
- List signs and symptoms related to patients with behavioral issues
- List the differentials related to a patient with behavioral issues
- Explain when it may be appropriate to administer oral glucose
- Explain your first priority related to a patient with behavioral issues
- Identify other things to consider in relation to a patient with behavioral issues
- Discuss signs and symptoms of a dystonic reaction
- Explain the use of diphenhydramine in the patient with a dystonic reaction
- Discuss indications, contraindications, dosing, and actions of haloperidol
- Discuss when midazolam would be used for these patients vs. haloperidol

Bites and Envenomations

- Discuss appropriate history related to a patient with a bite or envenomation
- Identify signs and symptoms related to a patient who has experienced a bite or envenomation
- List differentials related to patients with a bite or envenomation
- List your treatment plan for a patient with an insect bite/sting
- List your treatment plan for a patient with a snakebite
- Explain the use of ice for a snakebite
- Explain concerns related to human bites
- Discuss concerns related to carnivore bites
- Explain why cat bites rapidly progress to infection
- Discuss different types of snakes in our area
- Describe signs and symptoms related to a brown recluse bite
- Describe signs and symptoms related to a black widow bite
- Describe evidence of infection
- Describe how you would clean a wound if possible
- List types of immunocompromised patients
- Identify the number for the poison control center

Excited Delirium

- Discuss appropriate history related to excited delirium
- List signs and symptoms related to a patient with excited delirium
- Discuss appropriate differentials related to excited delirium
- Discuss when you would initiate cooling measures
- What is your number one priority when dealing with a patient with excited delirium?
- Discuss who must accompany a handcuffed patient
- Discuss positioning of a patient who must be restrained
- Discuss the use of a fluid bolus for these patients
- Discuss the use, including possible complications, in the use of midazolam in these patients

Eye Injury/Complaint

- Discuss appropriate history related to an eye injury or complaint
- Discuss signs and symptoms related to a patient with an eye injury or complaint
- List appropriate differentials related to an eye injury or complaint
- Discuss treatment for a patient with a known or suspected injury
- Discuss how treatment differs whether the eye is in or out of the socket
- Discuss when a provider would irrigate with NS
- Discuss the evaluation plan specifically for a patient with an eye complaint but no suspected injury
- Discuss when you would remove contacted lenses and when you would not
- Describe when you would cover one vs. both eyes
- Discuss indications, contraindications, and dosing of ondansetron
- Explain why it might be appropriate to use ondansetron for these patients

Fever/Infection Control

- Discuss appropriate history related to a patient with fever or infection
- Discuss signs and symptoms related to a patient with fever or infection
- List differentials related to a patient complaining of fever or infection
- Discuss appropriate use of contact precautions
- Discuss appropriate use of droplet precautions
- Discuss appropriate use of all-hazards precautions
- Discuss indications, contraindications, dosing, and actions of acetaminophen and ibuprofen for fever control

Environmental Hyperthermia

- Discuss appropriate history related to a patient with hyperthermia related to environmental causes
- Discuss signs and symptoms related to a patient with hyperthermia related to environmental causes
- List differentials related to environmental hyperthermia
- Discuss the treatment plan for a hyperthermic patient with altered mental status
- Discuss the treatment plan for a hyperthermic patient without altered mental status
- Discuss whether or not a patient should have a blood glucose checked
- Describe when you should/should not acquire a rectal temperature
- Discuss the use of a fluid bolus for these patients
- Discuss indications, contraindications, and dosing of ondansetron
- Discuss why midazolam is used in this protocol

Hypotension (non-trauma)

- Discuss appropriate history related to a patient suffering from hypotension
- List signs and symptoms related to a hypotensive patient
- List differentials related to the hypotensive patient
- Define hypotension
- Discuss different types of shock and signs and symptoms related to different types of shock
- Discuss appropriate positioning for the hypotensive patient
- Discuss considerations for the use of fluid boluses for these patients
- Discuss indications, contraindications, and dosing of norepinephrine

Hypothermia Environmental

- Discuss appropriate history related to a patient with hypothermia related to environmental causes
- Discuss signs and symptoms related to a patient with hypothermia related to environmental causes
- List differentials related to environmental hypothermia
- Discuss initial treatment of the hypothermic patient
- Discuss whether or not a patient should have a glucose assessment
- Identify mild, moderate, and severe hypothermia
- Explain the use of warm IV fluids for these patients

Nausea/Vomiting

- Discuss appropriate history related to a patient complaining of nausea and/or vomiting
- List signs and symptoms related to nausea and/or vomiting
- List differentials related to a patient complaining of nausea and/or vomiting
- Discuss the importance of acquiring a description of the emesis
- Discuss indications, contraindications, and dosing of ondansetron

Organophosphate Exposure

- List appropriate history that should be acquired for a patient with organophosphate poisoning
- Discuss signs and symptoms related to an organophosphate poisoning
- List differentials related to a patient with suspected organophosphate poisoning
- Identify the most important thing related to a patient potentially suffering from organophosphate poisoning
- Discuss different dosing for atropine depending on severity of symptoms
- Discuss how atropine works for organophosphate exposure

Overdose

- Discuss history associated with a patient who has potentially overdosed
- List signs and symptoms related to a possible overdose
- List differentials related to a potential overdose
- Discuss the reliability of a patient's history in a suicide attempts
- Identify the poison control center phone number
- Discuss indications, contraindications, dosing, routes, and actions of naloxone
- Discuss the use of sodium bicarbonate for tricyclic overdoses
- Discuss treatment plans for a patient with a beta blocker overdose
- List signs and symptoms related to an anticholinergic exposure
- List signs and symptoms related to a solvent exposure
- List signs and symptoms related to a stimulant overdose
- List signs and symptoms related to a tricyclic antidepressant overdose
- List signs and symptoms related to an insecticide exposure
- List signs and symptoms related to cardiac medication overdoses

Pain Management

- List history considerations for a patient having pain
- Identify signs and symptoms related to a patient having pain
- List differentials related to patients experiencing pain
- Discuss indications, contraindications, dosing, and actions of acetaminophen and ibuprofen for pain management
- Discuss indications, contraindications, dosing, and actions of fentanyl for pain management
- Explain reassessment procedures for patients receiving narcotic pain management

Seizure

- Identify history considerations related to a patient who has suffered a seizure
- Discuss signs and symptoms associated with patients who have experienced a seizure
- List differentials related to seizures
- Define status epilepticus
- Describe the difference between grand mal, focal, and Jacksonian seizures
- Discuss who can assist with a vagus nerve stimulator.
- Describe how one would utilize a vagus nerve stimulator
- Discuss indications, contraindications, dosing, and actions of midazolam for seizure management

Suspected Stroke

- Describe the Cincinnati Pre-Hospital Stroke Screen (CPSS)
- Identify criteria for declaring a “Stroke Alert”
- Describe what “onset of symptoms” means
- Explain why it would be useful to take a family member to the hospital with the patient

Syncope

- Discuss history considerations for a patient who has experienced a syncopal episode
- Discuss signs and symptoms which might be associated with a patient who has had a syncopal episode
- List possible differentials related to a patient with a syncopal, or near syncopal, episode
- Discuss the importance of checking for trauma
- Recognize that a syncopal episode is often related to cardiac issues in the geriatric patient

Carbon Monoxide

- Discuss history that might be appropriate to ask for a patient with a suspected carbon monoxide exposure
- Discuss signs and symptoms related to a patient with a carbon monoxide exposure
- List possible differentials related to carbon monoxide exposure
- Describe how a provider would select oxygen administration related to different levels of carbon monoxide exposure
- Discuss considerations for an obtunded fire victim
- Discuss other correctable causes that might resemble a carbon monoxide exposure

Cyanide

- Discuss history considerations related to a patient with a suspected cyanide exposure
- List signs and symptoms related to possible cyanide exposure
- Discuss differentials that might resemble cyanide exposure
- Discuss when/how a patient can be removed from the source of exposure
- Discuss oxygen administration for the patient possibly exposed to cyanide
- Discuss the importance of decontamination of these patients
- Discuss exposure-related signs and symptoms
- Discuss why oxygen will be administered via NRB regardless of O2 saturation
- Discuss indications, contraindications, dosing, and actions of hydroxocobalamin

Epistaxis

- Discuss patient history as related to epistaxis
- List signs and symptoms related to a patient with epistaxis
- List possible differentials related to epistaxis
- Discuss early interventions for a patient with epistaxis (i.e. “what would you do first?”)
- List different anticoagulants
- List anti-platelet agents
- Discuss the use of a fluid bolus for these patients
- Discuss indications, contraindications, dosing, and actions of neo-synephrine (phenylephrine)

Trauma – Adult and Pediatric

Trauma Arrest Adult/Pedi

- Discuss signs and symptoms related to the trauma arrest
- List possible differentials related to trauma arrest
- Discuss the CPR/Pit Crew procedure
- Describe the spinal motion restriction protocol
- Describe the tourniquet procedure
- Describe indications and application for the pelvic binder
- Discuss conditions where the first responder may either discontinue or not initiate resuscitation
- Describe when you might consider medical arrest protocols
- Discuss appropriate use of a fluid bolus for both adult and pediatric trauma arrest patients
- Discuss the appropriate use of the chest decompression procedure during traumatic arrest

Adult Burns

- Discuss history considerations related to a patient with a burn
- Discuss signs and symptoms related to burns
- List differentials related to burns
- Explain why you would remove constricting items early in the process
- Discuss the difference between treatment for chemical burns vs. thermal burns
- Explain how you would address dry chemicals or powder
- Discuss when you would cool the wound with normal saline or sterile water
- Describe criteria for a critical burn
- Discuss concerns related to circumferential burns
- Explain the use of the Parkland Formula
- Discuss indications, contraindications, dosing, and actions of fentanyl for pain management

Drowning Adult/Pedi

- Discuss history considerations related to a drowning patient
- List differentials related to a drowning victim
- Discuss criteria for resuscitation related to a drowning victim
- Explain why all victims should be transported (assuming resuscitation or non-arrest)
- Explain why a provider should wait for a trained rescuer to remove the patient from the water
- Discuss considerations related to pressure injuries
- Discuss the conditions under which a patient would receive albuterol
- Discuss the use of CPAP with a drowning patient
- Discuss indications, contraindications, actions, and doses for ipratropium bromide and albuterol for these patients

Extremity Trauma Adult/Pedi

- Discuss history related to a patient with extremity trauma
- List signs and symptoms related to extremity trauma
- Discuss differentials related to extremity trauma
- Explain how to address an amputation
- Describe documentation requirements for patients before and after splinting
- Explain possible complications related to hip dislocations, knee and elbow fractures/dislocations
- Explain treatment for a partial amputation
- Discuss the difference in administration of IV fluid for a compressible and non-compressible hemorrhage

Head Trauma

- Discuss history related to head trauma
- List signs and symptoms related to head trauma
- Discuss possible differentials related to head trauma
- Describe the GCS scale
- Discuss how often a head-injured patient will be reassessed
- Explain the ONLY instance in which you will hyperventilate a patient

- Identify the most important item to monitor and document
- Discuss items that need to be documented

Multiple Trauma

- Discuss history related to multiple trauma
- List signs and symptoms related to multiple trauma
- List differentials related to multiple trauma
- Identify when to call a trauma activation
- Identify when a pelvic binder should be used
- Describe when a provider should consider splinting of fractures
- Discuss how treatment plans change once a trauma activation has been called
- Describe permissive hypotension
- Discuss the use of norepinephrine in the use of spinal shock
- Explain the chest decompression procedure

Pediatric Burns

- Discuss history considerations related to a patient with a burn
- Discuss signs and symptoms related to burns
- List differentials related to burns
- Explain why you would remove constricting items early in the process
- Discuss the difference between treatment for chemical burns vs. thermal burns
- Explain how you would address dry chemicals or powder
- Discuss when you would cool the wound with normal saline or sterile water
- Describe criteria for a critical burn
- Discuss concerns related to circumferential burns
- Discuss fluid resuscitation for a high-voltage pediatric burn patient
- Discuss indications, contraindications, dosing, and actions of fentanyl for pain management

Pediatric Head Trauma

- Discuss history related to head trauma
- List signs and symptoms related to head trauma
- Discuss possible differentials related to head trauma
- Describe the GCS scale
- Discuss how often a head-injured patient will be reassessed
- Explain the ONLY instance in which you will hyperventilate a patient
- Identify the most important item to monitor and document
- Discuss items that need to be documented

Pediatric Multiple Trauma

- Discuss history related to multiple trauma
- List signs and symptoms related to multiple trauma
- List differentials related to multiple trauma
- Identify when to call a trauma activation
- Identify when a pelvic binder should be used
- Describe when a provider should consider splinting of fractures

- Discuss how treatment plans change once a trauma activation has been called
- Describe permissive hypotension
- Discuss the use of a fluid bolus for these patients

Obstetrical and Pediatric (<37kg) Medical Protocols

Childbirth/Labor

- Discuss history related to a patient who is experiencing labor or is about to deliver
- Discuss signs and symptoms of imminent delivery
- List differentials related to labor and delivery
- Discuss how treatment differs between a patient who is crowning, not crowning, or has priority symptoms
- Discuss when and how APGAR is scored
- Discuss the concern with an obstetrical patient seizes
- Describe postpartum hemorrhage
- Discuss how perineum tears with hemorrhage should be treated
- Explain the most common cause of postpartum hemorrhage

Obstetrical Emergency

- Discuss history considerations related to obstetrical emergencies
- List signs and symptoms related to an obstetrical emergency
- List differentials related to obstetrical emergencies
- Discuss management of postpartum hemorrhage
- Discuss concerns with obstetrical seizures
- Discuss positioning for patients >20 weeks gestation
- Describe treatment plans for a pregnant patient involved in an MVC
- Describe how you would quantify bleeding with a patient
- Discuss hypertension as it relates to the pregnant patient
- Identify signs and symptoms related to preeclampsia
- Discuss indications, contraindications, dosing, and action for magnesium in preeclampsia

Newly Born

- Discuss history considerations related to newly born patients
- List signs and symptoms to note in the newly born patient
- List differentials related to complications for the newly born patient
- Discuss how you would address meconium
- Discuss when and how to score APGAR
- Discuss the flowchart for neonatal resuscitation (**note**: different from traditional pediatric resuscitation)
- Discuss how treatment will differ depending on the newborn's heart rate
- Identify concerns related to suction of the newborn
- Describe a non-vigorous infant
- **Note**: It is extremely important to keep a newborn warm

- Discuss administration of dextrose, narcan, and NS for the newly born patient

Pediatric Airway

- Discuss the algorithm for managing a pediatric airway from least invasive to most invasive
- Discuss how Pulse Ox and EtCO₂ relates to treatment
- Define “pediatric patient”
- Discuss how a majority of patients can be addressed
- **Note:** avoid hyperventilation
- Discuss the use of direct laryngoscopy for these patients
- Discuss the orotracheal intubation procedure for these patients

Failed Pediatric Airway

- Explain treatment plan if the SPO₂ drops <90% or it becomes difficult to ventilate with a BVM
- Discuss how a majority of patients can be addressed
- Discuss how and when continuous pulse oximetry should be used
- Describe the needle cricothyrotomy procedure
- Describe the surgical airway procedure

Pediatric Respiratory Distress

- List history considerations related to a pediatric respiratory distress patient
- List signs and symptoms related to a pediatric respiratory distress patient
- Discuss differentials related to a pediatric patient with respiratory distress
- Discuss concerns with a pediatric respiratory distress patient with a quiet chest
- Discuss indications, contraindications, dosing, and repeat dosing of albuterol
- Discuss indications, contraindications, dosing, and repeat dosing of ipratropium bromide
- Discuss indications, contraindications, dosing, and repeat dosing of epinephrine
- Discuss indications, contraindications, dosing, and repeat dosing of magnesium sulfate
- Discuss the use of an epinephrine neb for the pediatric respiratory distress patient

Pediatric Cardiac Arrest

- List history considerations related to a pediatric patient in cardiac arrest
- List signs and symptoms related to a pediatric patient in cardiac arrest
- Discuss differentials related to a pediatric patient in cardiac arrest
- Identify criteria for withholding resuscitation
- Describe CPR/Pit Crew procedure including the use of the AED
- Discuss keys to success
- Describe the cardiac arrest checklist

Pediatric Asystole/PEA

- List history considerations for the pediatric patient in asystole and PEA
- Discuss differentials
- Discuss treatments for reversible causes
- Explain the dosing for epinephrine
- Describe effective CPR
- Explain the use of a burette

Pediatric V-Fib/Pulseless V-Tach

- Discuss history considerations related to the pediatric patient in v-fib/pulseless v-tach
- Discuss differentials
- List the algorithm for pediatric v-fib/pulseless v-tach
- Explain the defibrillation procedure
- Discuss dosing for epinephrine
- Discuss dosing for amiodarone
- Discuss the use and dosing of lidocaine and magnesium sulfate
- Describe effective CPR
- Discuss pediatric airway management

Pediatric Post Resuscitation

- Discuss reasons for the initial arrest
- Describe continued ventilatory support
- **Note:** do not hyperventilate
- Discuss why hyperventilation should be avoided at all costs
- Identify reasons a patient post-resuscitation requires close monitoring
- List common causes of post-resuscitation hypotension
- Discuss “significant ectopy”
- Explain why post resuscitation patients require constant monitoring

Pediatric Bradycardia

- Identify history related to pediatric bradycardia
- List signs and symptoms related to pediatric bradycardia
- Discuss differentials related to pediatric bradycardia
- Discuss when a provider would or would not begin CPR
- Discuss consideration and treatment of reversible causes
- Discuss the use of an IV bolus for these patients
- Discuss treatments for reversible causes
- Explain the transcutaneous pacing procedure
- Explain dosing and usage of atropine in this protocol
- Discuss methods to maintain an appropriate blood pressure
- Discuss how to figure an appropriate blood pressure for the pediatric patient
- Discuss how treatment differs between symptomatic and asymptomatic presentations
- Discuss concerns with the use of lidocaine (see Pearls)

Pediatric Supraventricular Tachycardia

- Discuss history related to pediatric SVT
- Describe signs and symptoms associated with pediatric SVT
- Discuss differentials related to pediatric SVT
- Discuss the use of midazolam prior to synchronized cardioversion
- Discuss how to determine between synchronized cardioversion vs. vagal maneuvers and adenosine
- Explain dosing considerations for the use of adenosine
- Describe maximum sinus tachycardia rates
- Explain correct administration of adenosine
- Discuss how to distinguish between sinus tachycardia, supraventricular tachycardia, and ventricular tachycardia

Pediatric Wide Complex Tachycardia With a Pulse

- Discuss history associated with this protocol
- Describe signs and symptoms related to this protocol
- Discuss differentials associated with pediatric wide complex tachycardia with a pulse
- Discuss how to decide between stable vs. unstable/pre-arrest presentations
- Discuss use of midazolam for sedation prior to synchronized cardioversion
- Describe the synchronized cardioversion procedure
- Discuss the use of lidocaine including dosing
- Discuss considerations prior to switching antiarrhythmics
- Describe a lidocaine drip
- Discuss when and how magnesium will be used

Pediatric Allergic Reaction

- Discuss history related to a pediatric allergic reaction
- List signs and symptoms related to a pediatric allergic reaction
- List differentials related to a pediatric allergic reaction
- Describe, specifically, the difference between a mild, moderate, and severe allergic reaction
- Describe indications, contraindications, dosing, and repeat dosing of epinephrine
- Recognize weight restrictions to the administration of epinephrine
- Discuss indications, contraindications, dosing, and repeat dosing for the use of albuterol
- Discuss indications, contraindications, dosing, and actions of diphenhydramine for these patients
- Discuss indications, contraindications, dosing, and actions of methylprednisolone
- Discuss why these patients should receive a 12-lead ECG
- Discuss how to determine PO vs. IV/IM diphenhydramine
- Explain how to determine the appropriate SBP for the pediatric patient

Pediatric Altered Mental Status

- Discuss history related to a pediatric altered mental status
- Discuss signs and symptoms related to altered mental status
- List possible differentials related a pediatric patient with altered mental status
- Discuss when a patient would receive oral glucose
- Discuss the use of glucagon for these patients
- Discuss indications, contraindications, dosing, and administration of dextrose
- Describe low glucose, normal glucose, and high glucose
- Discuss concerns for patients on oral hypoglycemics

Pediatric Fever/Infection Control

- Discuss history related to a pediatric patient with fever
- List signs and symptoms related to a pediatric fever
- List differentials related to a pediatric patient with a fever
- Describe passive cooling processes
- Explain when contact precautions would be appropriate
- Discuss when droplet precautions would be appropriate
- Describe all-hazards precautions
- Discuss indications, contraindications, dosing, and actions for the use of acetaminophen for these patients

Pediatric Hypotension (Non-Trauma)

- Discuss history related to pediatric hypotension
- List signs and symptoms related to pediatric hypotension
- List differentials related to pediatric hypotension
- Explain how to determine pediatric hypotension
- Discuss the use of a fluid bolus for these patients

Pediatric Nausea, Vomiting, and Diarrhea

- List history considerations for a patient experiencing nausea, vomiting, and diarrhea
- List signs and symptoms related to nausea, vomiting, and diarrhea
- List differentials related to pediatric nausea, vomiting, and diarrhea
- Identify signs and symptoms of dehydration
- Describe indications, contraindications, and dosing for ondansetron

Pediatric Pain Management

- List history considerations related to pediatric pain management
- List signs and symptoms related to pediatric pain management
- List differentials related to pediatric pain
- Identify when vital signs should be acquired related to pain medication administration
- Explain the Wong-Baker faces pain scale
- Describe how splinting will help with decreasing pain
- Discuss indications, contraindications, and dosing for pediatric pain management (fentanyl and acetaminophen)

Pediatric Seizure

- List history considerations related to pediatric seizures
- List signs and symptoms to consider related to pediatric seizures
- List differentials for pediatric patients having seizures
- Describe what is more important than stopping the seizure
- Explain what a seizure might indicate in an infant
- Define status epilepticus
- Explain the difference between grand mal seizures, focal seizures, and Jacksonian seizures
- Explain why it is important to look for trauma in patients with seizures
- Discuss indications, contraindications, and dosing for fever
- Discuss the administration of midazolam for seizure control

Pediatric Environmental Hyperthermia

- Discuss appropriate history related to a patient with hyperthermia related to environmental causes
- Discuss signs and symptoms related to a patient with hyperthermia related to environmental causes
- List differentials related to environmental hyperthermia
- Discuss the treatment plan for a hyperthermic patient with altered mental status
- Discuss the treatment plan for a hyperthermic patient without altered mental status
- Discuss when it would be appropriate to encourage PO fluids
- Discuss whether or not a patient should have a blood glucose checked
- Describe when you should/should not acquire a rectal temperature
- Discuss the use of cold saline boluses
- Discuss the purpose of midazolam for this protocol
- Discuss the use of ondansetron for this protocol
- Explain the importance of checking glucose levels for these patients

Pediatric Overdose

- Discuss history associated with a patient who has potentially overdosed
- List signs and symptoms related to a possible overdose
- List differentials related to a potential overdose
- Discuss the reliability of a patient's history in a suicide attempts
- Identify the poison control center phone number
- Explain "dystonic reaction"
- Describe indications, contraindications, doses, and actions for the use of diphenhydramine
- Discuss the indications, contraindications, doses, and actions for the use of naloxone
- Describe treatment for tricyclic overdoses
- Discuss specific treatment for calcium channel blocker or beta blocker overdoses
- Discuss the use of midazolam for sedation due to a stimulant OD
- Explain the importance of acquiring a 12-lead ECG
-

Pediatric Carbon Monoxide

- Discuss history that might be appropriate to ask for a patient with a suspected carbon monoxide exposure
- Discuss signs and symptoms related to a patient with a carbon monoxide exposure
- List possible differentials related to carbon monoxide exposure
- Describe how a provider would select oxygen administration related to different levels of carbon monoxide exposure
- Discuss considerations for an obtunded fire victim
- Discuss other correctable causes that might resemble a carbon monoxide exposure

Pediatric Cyanide

- Discuss history considerations related to a patient with a suspected cyanide exposure
- List signs and symptoms related to possible cyanide exposure
- Discuss differentials that might resemble cyanide exposure
- Discuss when/how a patient can be removed from the source of exposure
- Discuss oxygen administration for the patient possibly exposed to cyanide
- Discuss the importance of decontamination of these patients
- Discuss exposure-related signs and symptoms
- Discuss why oxygen will be administered via NRB regardless of O2 saturation
- Discuss indications, contraindications, dosing, and actions of hydroxocobalamin

Special Response Protocols (Adult/Pedi)

Constant Crush >4 hours

- Discuss history considerations related to a patient with a constant crush injury
- List signs and symptoms of compartment syndrome
- List other differentials associated with this protocol
- Discuss the importance of removing possible constricting items
- Discuss, specifically, the use of IV fluid for these patients. Be very detailed. Check the Pearls for more information on this
- Discuss the possibilities for dysrhythmias in these patients
- Discuss why these patients should not be given anything PO
- Discuss possible complications to be alert for
- Discuss the use of sodium bicarbonate including how it would be used
- Discuss the use of fentanyl for these patients

Clinical Procedures

12 Lead ECG

- List clinical indications for the acquisition of a 12 lead ECG/EKG
- Discuss the time frame in which the 12 lead should be acquired
- Discuss where the electrodes are placed for a 12 lead ECG
- Discuss documentation of the procedure

Medication Cross Check

- Discuss the “Six Rights” of medication administration
- Describe the procedure for the Medication Cross Check
- Explain how you would document medication administration
- **Note:** it is expected that the medication cross check procedure will be used on EVERY medication administration (except oxygen)

AED

- Discuss the clinical indications for the use of the AED
- List any precautions to the use of the AED
- Explain any notes/precautions related to the use of the AED
- Explain the procedure of the use of the AED

Alternative Venous Access

- Discuss the clinical indications for alternative venous access
- Discuss contraindications to the use of this procedure
- Describe access to a Broviac/Hickman/Groshong or other double or triple lumen catheters
- Discuss access to a PICC line
- Discuss considerations to the access of a portacath
- Discuss access to a hemodialysis fistula/graft

Beck Airway Airflow Monitor (BAAM)

- Discuss clinical indications to the use of this procedure
- Explain contraindications to the use of the BAAM
- Discuss notes/precautions with the use of the BAAM
- Describe the procedure

Cardiac Pacing

- Discuss clinical indications for this procedure
- List contraindications to the use of this procedure
- Describe the procedure

Cardioversion

- List clinical indications to the use of cardioversion
- List contraindications to the use of cardioversion
- Describe the procedure

Cyanokit

- Describe the clinical indication to the use of a cyanokit
- Explain warnings and precautions to the use of a cyanokit
- Discuss preparation of the solution for infusion
- Discuss incompatibility information

External Jugular Access

- Discuss clinical indications to the use of this procedure
- Describe how to implement this procedure

Flex Guide ETT Introducer (Gum-elastic Bougie)

- List clinical indications for the use of this procedure
- Describe notes/precautions for this procedure
- Describe this procedure

Foreign Body Airway Obstruction (Conscious Patient)

- Discuss the clinical indications for the use this procedure
- Describe the procedure
- Explain how the procedure differs for infants, children, and adults

Foreign Body Airway Obstruction (Conscious Patient)

- List the clinical indications for the use of this procedure
- Describe the procedure
- Explain what happens if the FBAO is removed and the patient has pulses
- Discuss what happens next when a patient becomes pulseless with the FBAO is still in place
- Describe what happens if the patient becomes pulseless and the FBAO has been removed or relieved

Adult Assessment

- Explain the clinical indications for a patient needing an adult assessment
- Discuss the first step in the procedure
- Describe on-going assessment throughout transport
- Explain the contents of an initial assessment
- Describe documentation of the adult assessment

Pediatric Assessment

- List the clinical indications for a pediatric assessment
- Describe the pediatric triangle of ABC's
- Describe assessment of disability
- Explain why it is important to keep a pediatric patient warm
- Discuss what constitutes "hypotension" for a pediatric patient
- Discuss how to assess perfusion in a pediatric patient when you cannot obtain a blood pressure
- Describe what "extra" questions might be appropriate to ask about as far as history is concerned with a pediatric patient

Blood Glucose Assessment

- Discuss clinical indications for the use of this procedure
- Describe the steps for the procedure
- Explain where it would be appropriate to acquire blood samples
- Discuss “hypoglycemia” vs. “hyperglycemia”

Childbirth

- Explain clinical indications
- Discuss how you will follow the steps for the procedure
- Discuss what to do after the anterior should delivers
- Explain the process of suction
- Explain how to address an umbilical cord around the neck
- Discuss when and how to record APGAR scores
- Explain when the placenta will deliver
- Describe what to do after the baby delivers

Cincinnati Pre-Hospital Stroke Screen

- Recognize indications for the use of the CPSS
- List contraindications for this procedure
- Describe each part of the CPSS
- Describe pronator drift
- List the criteria for declaring a Stroke Alert
- Explain why it is important to perform a glucose check prior to calling a Stroke Alert

Contact Precautions

- List clinical indications to the use of this procedure
- List any contraindications to the use of this procedure
- List the steps of this procedure – include what constitutes “contact precautions”

CPAP

- List clinical indications for the use of CPAP
- List contraindications for the use of CPAP
- List notes/precautions for the use of CPAP
- Describe the procedure for the application of CPAP
- Discuss decompensation for the patient on CPAP

CPR – Pit Crew

- List the clinical indications for the use of Pit Crew CPR
- List contraindications to the use of this procedure
- Describe the focus for Pit Crew CPR
- Describe all the responsibilities of the person in Position 1
- List the responsibilities for the person in Position 2
- Describe the responsibilities for the person in Position 3 (patient’s head – also known as “the airway person”)
- Explain the importance of the use of the metronome in Pit Crew CPR

CPR – Pit Crew – Modified Two (2) Person Version

- Explain (specifically) how this procedure is different than the typical three-person CPR

BURP Procedure

- Describe the clinical indications to the use of this procedure
- Discuss contraindications to the use of this procedure
- Describe notes/precautions to the use of this procedure
- Describe the steps to this procedure

Decontamination

- List the clinical indications to the use of this procedure
- Discuss when initial triage of patients will occur
- Discuss when a high-volume water bath might or might not be used
- Explain what should happen to patient's personnel effects

Determination of Capacity

- Explain the clinical indication to the use of this procedure
- Describe step three in detail
- Describe the parts of step four in detail
- Explain, very specifically, the information in step six

End-Tidal CO₂ Monitoring (EZ Cap)

- List clinical indications to the use of the EZ Cap
- List contraindications for the use of the EZ Cap
- Discuss notes/precautions for the use of the EZ Cap
- Discuss the procedure for the use of the EZ Cap

End-Tidal CO₂ Monitoring (Wave Form)

- List clinical indications to the use of ETCO₂ monitoring
- List contraindications to the use of ETCO₂ monitoring
- Discuss notes/precautions for the use of ETCO₂ monitoring
- Discuss what three factors must be quickly evaluated if no CO₂ is detected
- Discuss the “normal” ETCO₂ range

Extremity IV Intravenous Therapy

- List clinical indications to the use of IV access
- List contraindications to the use of IV access
- Describe the procedure
- Discuss the use of a saline lock
- Describe the procedure for using a saline lock

Eye Irrigation BLS Only

- Discuss clinical indications for the use of this procedure
- List contraindications to eye irrigation
- Describe how to address contact lenses
- Discuss how to implement eye irrigation

Gastric Tube Insertion

- Discuss the clinical indications for the use of a gastric tube
- List contraindications to the use of a gastric tube
- Describe the procedure
- Discuss how to determine if the tube has been correctly placed

Impedance Threshold Device Res-Q-Pod

- List clinical indications for the use of the ITD/Res-Q-Pod
- List contraindications to the use of the Res-Q-Pod
- Discuss the procedure for the use of the Res-Q-Pod when using a BLS airway

Insulin Pump

- List indications for addressing a patient's insulin pump
- List notes/precautions included in this procedure
- Describe how to disconnect the pump from the patient
- Discuss how to address a patient refusing transport against medical advice (AMA)

Intramuscular Injections

- Discuss clinical indications for the use of an IM injection
- List contraindications for the use of an IM injection
- Discuss notes/precautions for IM injections
- Discuss appropriate injection sites for IM injections
- Discuss the IM injection procedure

Intraosseous Infusion EZ-IO

- Discuss the clinical indications to the use of the EZ-IO
- Discuss contraindications to the use of intraosseous access
- Describe the procedure
- Discuss how to determine that the device has been appropriately placed

i-Gel O2 Airway (BIAD)

- List the clinical indications to the use of this device
- List contraindications to the use of this device
- Explain size selection for the use of this device
- Explain how to prepare the device for use
- Explain the skill in detail
- Discuss the removal of dentures prior to the insertion of this device
- Discuss confirmation of placement

Kendrick Traction Device

- List the clinical indications to the use of this procedure
- Explain contraindications to the use of the KTD
- Identify notes or precautions to the use of the KTD
- Describe application of the KTD

LUCAS

- Discuss clinical indications to the use of the LUCAS device
- List contraindications to the use of the LUCAS device
- Discuss notes/precautions for the use of this device
- Describe the procedure in detail
- Note: application of the LUCAS SHOULD NOT interfere with continuous compressions

Manual Defibrillation

- List clinical indications to the use of manual defibrillation
- List contraindications to the use of manual defibrillation
- Describe the procedure

Nasotracheal Intubation

- List clinical indications to the use of nasotracheal intubation
- Describe contraindications to nasotracheal intubation
- Discuss relative contraindications for nasotracheal intubation
- Describe the procedure
- Discuss how to determine correct placement

Nasal Drug Delivery Device

- Discuss clinical indications to the use of this device
- Discuss appropriate medications to give via this route – include indications, contraindications, and actions
- Explain the procedure

Nebulized Medication

- Discuss clinical indications to the use of this procedure
- List contraindications to the use of this procedure
- Describe the procedure for assembling the nebulizer kit
- Explain the use of the medication cross-check procedure

Needle Cricothyrotomy

List indications to the use of this procedure

- List contraindications to the use of this procedure
- Discuss notes/precautions to the use of needle cricothyrotomy
- Describe the procedure

Orthostatic Blood Pressure Measurement

- List clinical indications for acquiring orthostatic blood pressures
- Explain how far apart a provider should check the blood pressure and pulse
- Define “orthostatic”
- Describe when a provider can omit a formal orthostatic examination

Orotracheal Intubation

- List clinical indications to the use of this procedure
- Discuss any contraindications to the use of this procedure
- Describe the procedure
- Explain why a bougie must be used for each attempt
- Describe how to determine appropriate placement

Pelvic Binder (SAM Sling®)

- List clinical indications for the use of this device
- Discuss contraindications for this device
- Describe the steps necessary to apply this device
- Discuss notes and precautions for the use of the device

Pleural Decompression

- Discuss clinical indications for pleural decompressions
- List contraindications to pleural decompression
- Describe the procedure
- Identify proper placement for insertion

Pressure Infusion Bag

- List clinical indications to the use of this device
- List contraindications to the use of this device
- Describe the procedure

Restraints

- List clinical indications to the use of restraints
- Explain why it is critical to make sure the patient is under constant observation by a credentialed provider
- Explain documentation for the use of restraints
- Explain what needs to happen if a patient is restrained using handcuffs
- Explain how often circulation checks must be performed once a patient is restrained
- Explain where upper extremities should be restrained
- **Note:** the patient will NEVER be restrained in the prone position

Pain Assessment and Documentation

- List clinical indications for the use of this procedure
- Define “pain”
- Describe how the initial and ongoing assessment of pain would be accomplished
- Explain when vital signs should be taken during this procedure
- Describe the 0-10 scale for pain
- Describe the Wong-Baker “FACES” Scale
- Describe the FLACC Scale

SMART BAG MO

- List clinical indications for the use of this device
- Describe preparation for the use of the Smart Bag
- Describe proper hand placement for making a mask seal
- Describe when and how the pressure relief valve could be over-ridden

Pulse Oximetry

- Define the clinical indications for the use of pulse oximetry
- List notes/precautions to the use of pulse oximetry
- Describe the procedure for the use of pulse oximetry
- Define “normal” pulse oximetry readings
- **Note:** remember to treat the patient, not just the pulse oximeter reading

Respiratory Precautions

- Describe the clinical indications for the use of respiratory precautions
- Explain when the use of respiratory precautions should be considered
- Discuss notes and precautions for the use of this procedure
- Discuss what the term “high risk respiratory procedures” means
- Discuss when a fitted N95 mask is recommended

Droplet Precautions

- Discuss when droplet precautions should be used
- Describe how to use the procedure
- Discuss the importance of cautious removal of PPE
- Discuss the importance of decontamination of equipment

Airborne Precautions

- Discuss when it would be appropriate to use airborne precautions
- Discuss how the “view from the door” will affect your scene management

Spinal Motion Restriction (SMR)

- Discuss the clinical indications for the use of this procedure
- Define “who should be immobilized with a long spine board”
- Define who may not require immobilization via a long spine board
- Discuss the implementation of this procedure
- Explain the importance of checking peripheral motor/sensory function and distal pulses

Splinting

- Discuss the clinical indications for the use of this procedure
- Discuss when and why it is important to assess and document pulses, sensation, and motor function before AND after splinting
- Discuss what to do if there is no distal pulse and a fracture is suspected
- Explain the splinting procedure

Standard Precautions

- Discuss the clinical indications to the use of this procedure
- Define “Standard Precautions”
- Explain notes/precautions as related to this procedure
- Describe when you would wear gloves
- Discuss when it would be appropriate to wear a gown
- Explain when it would be appropriate to use mouth, nose, and eye protection
- Discuss how a provider would protect themselves during aerosol-generating procedures

Suctioning - Advanced

- Discuss the clinical indications for the use of this procedure
- Describe the procedure

Surgical Cricothyrotomy

- Discuss clinical indications
- List contraindications to the use of surgical cricothyrotomy
- Describe any notes or precautions to the use of this procedure
- Describe the procedure

Taser Probe Removal

- Discuss the clinical indications for the use of this procedure
- Discuss contraindications to removing a taser probe
- Explain the procedure for removing a taser probe

Tourniquet

- Discuss the clinical indications to the use of a tourniquet
- Describe contraindications to the use of this procedure
- Explain the application of the tourniquet
- Describe when a provider would stop tightening a tourniquet
- Explain the complication if the provider fails to tighten the tourniquet adequately

Vagus Nerve Stimulator

- Discuss the clinical indications for the use of this device
- Discuss contraindications to the use of this device
- List notes/precautions for the use of this device
- Describe the procedure for the use of this device

Wound Care

- Discuss the clinical indications for the use of this procedure
- Discuss when it would or would not be appropriate to irrigate contaminated wounds
- Discuss the importance of checking distal pulses, sensation, and motor function
- Explain how you would document the use of this procedure

Equipment Failure

- Explain the purpose of this procedure
- Explain the purpose of the “daily equipment check sheet”
- Describe what you would do if there is a failure of a piece of equipment during patient care which is deemed essential to the ongoing care of the patient
- Explain how and when you would notify about the failure of the piece of equipment
- Discuss under what conditions a piece of equipment might be returned to use
- Discuss how and when an Equipment Failure Report Form will be filled out

Double Sequential External Defibrillation

- Discuss clinical indications for the use of double-sequential defibrillation
- Describe the procedure

Appendices

Approved Abbreviations

- A provider should be able to identify/define Approved Abbreviations

Infection Prevention Exposure Management

- Discuss Infection prevention
- Discuss the “infection triad”
- Discuss recommended immunizations
- Discuss the importance of handwashing for infection prevention
- Discuss the use of Personal Protective Equipment (PPE)
- Explain when PPE should be considered standard practice
- Explain when it would be appropriate to use an N95 mask
- Describe when it would be appropriate to use a surgical mask and eye shield
- Explain when a provider should provide tissues and explain when to use them
- Explain sharps hazards
- Discuss cleaning and disinfection of equipment and work areas
- Discuss the importance of wearing PPE during decontamination of equipment
- Explain how a provider would follow-up on an exposure
- Discuss under what conditions a provider should immediately be transported to the closest appropriate facility for evaluation

Suspected Child Abuse and Reporting

- Discuss and describe “child abuse and neglect”
- Describe the State of Texas definitions of Abuse and Neglect
- Explain who MUST report child abuse and neglect and under what circumstances
- Describe what a provider would do if he or she suspected child abuse and/or neglect
- Discuss the only two methods to report suspected child abuse
- Discuss the patient or scene presentation
- Discuss procedures for dealing with suspected abuse patients

- Explain how you would document this

Vital Sign Parameters

- Define “tachycardia”
- Define “bradycardia”
- Discuss concerns associated with a bradycardic child
- Define “hypertension”
- Define “hypotension” for both children and adults
- Discuss “permissive hypotension”
- Describe Trauma Activation Criteria
- Define “hyperglycemic”
- Define “hypoglycemic”

<p>Authorized Skills by Credential Level</p>

- List the skills authorized for your credentialing level
- **Note:** regardless of a provider’s license or certification he or she may ONLY practice within their System Credentialed Scope of Practice
- **Note:** this is especially important for providers who may be certified at a higher level than they are credentialed