## Pike County Fire Department Operation Manual November 1, 2016

Standard Operating Guideline #21

Emergency Medical Service

Adopted/Revised: November 1, 2016

The purpose of this guideline is to provide for coordination of fire department activities with emergency medical services.

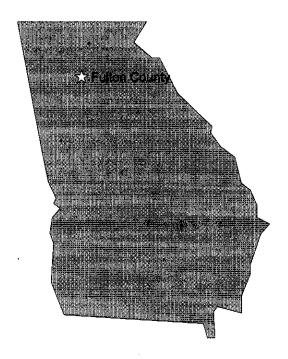
- 21.01 An EMS Transport Unit must be present at all working fire incidents and at all drills having live fire or other conditions considered potentially dangerous by the IC or PCFD Officer.
- 21.02 On any EMS incident, appropriate PPE shall be worn as to ensure Universal Precautions. At a minimum, appropriate PPE should include wearing of gloves by all personnel assisting with patient care.
- 21.03 Only personnel trained to the level of EMT-Basic, EMT-Intermediate, EMT-Advanced or EMT-Paramedic and licensed by the State of Georgia are to respond to EMS calls on the initial response. The maximum number of personnel to respond is two, excluding PCFD Officers. Additional personnel may respond if called for by personnel on scene. If no certified personnel respond to the first call out, then any fire personnel may respond to make initial patient contact.
- 21.04 Medical first responder personnel will be dispatched to EMS incidents for the following reasons:
  - Response time of the Medical Unit/Ambulance is anticipated to be greater than 10 minutes
  - Mutual aid is required due to the lack of an available EMS unit
  - The following incident types are received:
    - o Motor Vehicle Accidents (MVA) with Injuries
    - o Person Injured
    - o Suicide Attempt
    - o Cardiac Arrest
    - o Chest Pain
    - Difficulty Breathing
    - o Person Choking
    - Person Unresponsive
- 21.05 On any EMS incident, all on-scene personnel shall obey the instructions and orders of the responding Ambulance service unless otherwise directed by a PCFD Officer.
- 21.06 Assist EMS personnel transport to hospital
- When PCFD personnel are requested to assist the EMS service transport the patient to the hospital, they shall direct this request to the IC, Fire Chief or Assistant Chief and shall not leave the incident scene without proper authorization. The IC, Fire Chief or Assistant Chief will make proper arrangements for return transportation of the PCFD personnel, ensuring that the personnel are transported back to the county by another member of PCFD using his/her POV or PCFD staff vehicle only. No fire or rescue apparatus will be allowed to leave the county except under direction of a chief officer.

# Pike County Fire Department Operation Manual November 1, 2016

21.06.02	At no time should PCFD drive or operate the Ambulance of the responding service				
21.07 Responding Apparatus to EMS/Medical Calls					
21.07.01	In compliance with State of Georgia guidelines for medical first response, PCFD personnel shall respond emergency fire apparatus (engines, ladder truck, pumpers, squad, rescue, etc.) to EMS/medical assist calls as appropriate to call.				
21.07.02	PCFD medical first responders as outlined in 21.03 will be able to respond directly to the scene with a department issued first responder bag and gloves. All other equipment as outlined in the State of Georgia Medical First Responder license will be maintained on the licensed apparatus.				
21.07.03	At no time shall equipment be removed from the licensed apparatus and transported to the incident scene in PCFD personally owned vehicles (POV).				
<b>21.08</b> Medi	cal protocols				
21.08.01	All medical first responders will comply with the contracted ambulance service protocols.				
21.08.02	O8.02 All medical first responders, regardless of level of certification, will follow the approve protocols up to the administration of oxygen.				
21.08.03	All patient refusals are to be obtained by the responding Ambulance service.				
21.09 Completion of patient care reports					
21.09.01	A patient care report (PCR) shall be completed by the <b>highest level medical first responder</b> on scene as outlined in <b>21.03</b> .				
21.09.02	A PCR shall be completed on all patient encounters when PCFD personnel arrive first on scene and establish patient care.				
21.09.03	All PCR's must be completed within 24 hours of the incident.				

# CLINICAL CARE GUIDELINES 12/12/2014

# Fulton County Emergency Medical Services Clinical Care Guidelines



#### Adopters at time of publication

Grady Emergency Medical Service
City of Atlanta Fire Rescue
City of College Park Fire Department
Emory EMS First Responder
Fulton County Fire Department
City of Johns Creek Fire Department
City of Sandy Springs Fire Department
City of Decatur Fire Department

# Clinical Care Guidelines Introduction 12/12/2014

#### Clinical Care Guidelines

The Following Clinical Care Guidelines (CCG's) were written to provide the practicing prehospital care provider with a set of guidelines for the purposes of performing conscientious, high-quality patient care. The clinical care guidelines are presented in an algorithmic format that allows for easy reference. It is important that all prehospital care providers operating under these clinical care guidelines recognize and consider them as guidelines that can not account for every possible clinical condition or prehospital situation and do not supersede sound, contemporaneous clinical judgment on the part of the prehospital healthcare provider. When in doubt, the provider should contact On-line Medical Control (OLMC) to clarify confusing presentations or situations.

#### Organization

The Clinical Care Guidelines are organized into subsections to facilitate easy reference. The majority of the CCG's are based on patient presentation and not on ultimate diagnosis. Certain guidelines are more appropriately created using a diagnosis as the starting point and depart from the presentation-based convention.

## Clinical Care Guidelines Introduction 12/12/2014

## Copyright Notice & Disclaimer

The Fulton County Emergency Medical Service Clinical Care Guidelines (the "Guidelines") are the intellectual property of the Emory Section of Prehospital and Disaster Medicine (the "Section"). The Section hereby gratefully acknowledges the contributions of the founding author of these Guidelines, Dr. Eric Ossmann, who in his role as Medical Director for Grady EMS and Co-Director for the Section, worked tirelessly to support the mission of the emergency medical services system and to improve out-of-hospital care in this community. The Section has applied for copyright with the United States Copyright Office. The Guidelines are the sole and exclusive property of the Section. The Section hereby assures physicians and prehospital healthcare providers that use of the Guidelines by prehospital healthcare providers or physicians in their practices is permitted. Each professional user of the Guidelines is granted a royalty-free, non-exclusive, non-transferable license to use the Guidelines in their daily practice. The Guidelines may not be changed in any way by any user. The Guidelines may be incorporated into additional training materials developed by a user, on the condition that no fee is charged by the user for the Guidelines, or the additional training materials.

The Guidelines have been developed using the best available clinical evidence in concert with a substantial experiential base in prehospital medicine. However, the Section requires that the implementation and use of the Guidelines be conducted and completed in accordance with the professional judgment of an authorized physician and prehospital healthcare providers directed and supervised by them. Each health care professional who decides to use these Guidelines for prehospital emergency medical care does so on the basis of that health care provider's professional judgment with respect to the particular patient that the provider is caring for. The Section disclaims any and all liability for adverse consequences or for damages that may arise out of or be related to the professional use of the Guidelines by others, including, but not limited to, indirect, special, incidental, exemplary, or consequential damages, as further set forth below.

The Section has made a good faith effort to take all reasonable measures to make the Guidelines accurate, up-to-date, and free of material errors in accord with clinical standards accepted at the time of publication. Users of the Guidelines are encouraged to use the contents for improvement of the delivery of prehospital emergency health care. Any practice described in the Guidelines should be applied by health care practitioners in accordance with professional judgment and standards of care used in regard to the unique circumstances that may apply in each situation they encounter. The Section cannot be responsible for any adverse consequences arising from the independent application by individual professionals of the material in the Guidelines to particular circumstances encountered in their practices.

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# Clinical Care Guideline – Al Definitions

12/12/2014

For the purposes of consistency, the following abbreviations, definitions and parameters will be utilized throughout the FCEMS Clinical Care Guidelines.

## Age Parameters - Utilization of Clinical Care Guidelines

- o Adult = Age ≥ 15 years.
- o Pediatric = Age < 15 years
- o Ability to Consent for or Refuse Medical Treatment = Age ≥ 18 years

#### Assessment & Vital Signs - ADULT

- o Systolic Blood Pressure = SBP
- O Diastolic Blood Pressure = DBP
- o Heart Rate = HR
- o Respiratory Rate = RR
- o AVPU Scale
  - Alert = Interacts appropriately with healthcare provider and environment
  - Verbal = Responds to verbal stimuli
  - Painful = Responds to painful stimuli
  - Unresponsive = Does not respond to verbal or painful stimuli
- Glasgow Coma Scale = GCS
  - Eye Opening
    - o Spontaneous = 4
    - o To Voice = 3
    - o To Painful Stimuli = 2
    - o None = 1
  - Best Verbal Response
    - o Oriented to Person, Place & Time = 5
    - o Confused = 4
    - o Inappropriate Words = 3
    - o Incomprehensible = 2
    - o None = 1
  - Best Motor Response
    - o Obeys Commands = 6
    - Localizes Painful Stimuli = 5
    - o Withdraws from Painful Stimuli = 4
    - Abnormal Flexion Posturing = 3
    - o Abnormal Extension Posturing = 2
    - o None = 1
- o Hypertension =  $SBP \ge 180 \text{ mmHg}$ . Or  $DBP \ge 120 \text{ mmHg}$ .
- o Hypotension = SBP ≤ 90 mmHg.
- o Tachycardia = HR > 100 beats per minute
- o Bradycardia = HR < 60 beats per minute
- o Hyperventilation = RR > 20 breaths per minute
- o Hemodynamically Stable = Patient not hypotensive and tachycardia as defined above
- o Hemodynamically Unstable = Patient hypotensive and tachycardic as defined above
- O Delusional = Perceiving sights, sounds or situations that do not exist

# Clinical Care Guideline - A1(2)

## **Definitions**

12/12/2014

#### Vital Signs Outside of the Normal Range - PEDIATRIC

Age	RR	H R	SPO2	
< 3 m	> 50	> 180	< 92%	
3 m to 3 y	> 40	> 160	< 92%	
3 8 y	> 30	. > 140	< 92%	
> 8 y	> 20	> 100	< 92%	

 $Age \leq to 12 months = infant$ 

Age < 15 years and > 12 months = child

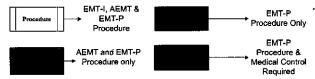
#### Assessment & Vital Signs

- o Systolic Blood Pressure = SBP
- o Diastolic Blood Pressure = DBP
- o Heart Rate = HR
- O Respiratory Rate = RR
- O Glasgow Coma Scale = GCS
  - Best eye response: (E)
    - 4. Eyes opening spontaneously
    - 3. Eye opening to speech
    - 2. Eye opening to pain
    - 1. No eye opening
  - Best verbal response: (V)
    - 5. Smiles, oriented to sounds, follows objects, interacts.
    - 4. Cries but consolable, inappropriate interactions.
    - 3. Inconsistently inconsolable, moaning.
    - 2. Inconsolable, agitated.
    - 1. No verbal response.
  - Best motor response: (M)
    - 6. Infant moves spontaneously or purposefully
    - 5. Infant withdraws from touch
    - 4. Infant withdraws from pain
    - 3. Abnormal flexion to pain for an infant (decorticate response)
    - 2. Extension to pain (decerebrate response)
    - 1. No motor response

Clinical Care Guideline – A2 Guideline Format & Legend 12/12/2014

These clinical care guidelines (CCG's) are arranged in an algorithmic format that maintains certain conventions throughout the document. The majority of the CCG's are symptom & presentation based, but some are maintained in the diagnosis-based format. The guidelines contain text boxes that will provide supporting information where appropriate.

Procedure/Intervention boxes are rectangular boxes with vertical end bars. These boxes indicate that a specific prehospital procedure/Intervention may be performed. Procedure/Intervention boxes that are filled blue indicate a procedure that is restricted to paramedic (EMT-P) providers only. Procedure/Intervention boxes that are filled green may be performed by Georgia Advanced EMTs and Paramedics. Procedure/Intervention boxes filled yellow may be performed by Georgia EMT-1's (EMT-Intermediate = 1985 Curriculum) Georgia AEMTs or EMT-P's. Procedure boxes that have a double thickness line and are filled red indicate the need for on-line medical control (OLMC) consultation.



Medication boxes are square boxes, filled yellow for all levels and green for AEMT and EMT-P, that contain the medication, dosage and route in boldface.



Medication boxes that are filled blue indicate a medication that is restricted to paramedic (EMT-P) providers only. Medication boxes that have a double thickness line, red fill and double horizontal bars require on-line medical control consultation.



Decision boxes are diamond shaped, orange filled and contain a branch point which directs the subsequent patient care guideline.



Continued on Next Page

## Clinical Care Guideline – A2(2) Guideline Format & Legend 12/12/2014

Document boxes are square with a wavy bottom line and filled purple. These boxes indicate that another protocol should be considered.



Data boxes are parallelogram or rectangular shaped boxes. They provide data that needs to be considered or synthesized by the provider to continue with that specific CCG.

Data Box

Data Box

# Clinical Care Guideline – A3 Provider Scope of Practice 12/12/2014

The Fulton County Emergency Medical Services Clinical Care Guidelines are designed to be used by both Georgia EMT-I (EMT-Intermediate - 1985 Curriculum) Georgia Advanced EMTs (AEMT) and Paramedic (EMT-P) level providers. As delineated in the Guidelines, certain interventions; procedural and therapeutic, are designated for EMT-P level providers only. The FCEMS Clinical Care Guidelines clearly define the provider level of practice required for specific procedural and therapeutic interventions (see Guideline Format & Legend - A2).

- 1) An EMT-P is defined as an individual that is certified by the State of Georgia as a Paramedic (EMT-P) and is authorized by the individual service medical director to act in that capacity while on duty.
- 2) An AEMT is an individual that is certified by the State of Georgia as an Advanced Emergency Medical Technician and has training under the new "advanced" curriculum and is authorized by the individual service medical director to act in that capacity. It is assumed that the EMT-I is the minimum level of certification required to use this protocol set.
- 3) An EMT-I is an individual that is certified by the State of Georgia as an Emergency Medical Technician and is authorized by the individual service medical director to act in that capacity. The FCEMS Protocol Set does not address the scope of practice of the Georgia Certified EMT-B. It is assumed that the EMT-I is the minimum level of certification required to use this protocol set.
- 4) The Technician is the provider that attends to the patient in the rear compartment during transport to the hospital. The Technician may be an EMT-I, AEMT or EMT-P. On a transport capable ambulance the decision as to whether a particular patient requires an EMT-I, AEMT or an EMT-P during transportation will be based on the following guidelines, and ultimately be the responsibility of the EMT-P level provider on scene. The Patient Care Report (PCR) will accurately reflect which provider performed specific interventions on scene and during transportation and who specifically functioned in the role of Technician as defined in this paragraph.

The FCEMS Protocol Set addresses interventions and therapeutics at the EMT-I, AMET and EMT-P level of certification. It is expected that individual providers will practice at a level appropriate to their certification. The EMT-P on-scene will make the decision as to the level of service that the patient will require during transportation to the hospital. When an EMT-P elects to drive and allows an EMT-I or AEMT to serve as the Technician; the EMT-P will still be ultimately responsible for all patient care rendered during the transport. The following guidelines will be used to aid the EMT-P in making that decision:

- 1) The condition of the patient and/or potential for deterioration during transport will primarily dictate the level of certification of the Technician during transport. Simply put, any patient that requires a paramedic level assessment, intervention or therapeutic on scene will also require a EMT-P level technician. Any patient that requires the minimum intervention from an EMT-I or AEMT as deemed appropriate by these guidelines and the Office of EMS and Trauma scope of practices, may be cared for by the EMT-I or higher in transport to the hospital.
- The EMT-I or AEMT may always request that the EMT-P serve as Technician if they feel that the patient requires an EMT-P level of intervention or is at risk for deterioration

# Clinical Care Guideline – A4 On-line Medical Control & Communications 12/12/2014

- 1) It is preferred that on-line medical control consultations and hospital reports be made from the ambulance by radio (on a recorded line) while enroute to the hospital. However, calls may be made from the scene if circumstances dictate.
- 2) The receiving facility should be contacted when the following situations occur:
  - a) Patients considered unstable (abnormal vital signs) or potentially unstable
  - b) When required by a specific CCG
  - c) When doubt or confusion exists regarding any facet of patient care
  - d) Incidents involving multiple casualties (greater than 5 patients)
  - e) Disaster Situations
  - f) Incidents involving a hazardous materials incident response or when possible exposure to radiation has occurred
  - g) All STEM is with transmission of the 12 lead EKG as per service capabilities, optimally, within 10 minutes of patient contact
  - h) All CVAs with time of symptom onset and accucheck.
  - i) Any facility that has indicated a desire to receive report for all transports.
- 3) When an on-line medical control call is not possible due to radio malfunction or other unforeseen complications, these clinical care guidelines shall act as standing orders for therapeutic interventions or for performing procedures by Fulton County Emergency Medical Services Paramedics, AEMTs and EMT-1's.
- 4) These clinical care guidelines do not limit the activities of the paramedic when in direct communication with the medical control physician. Certain procedures or treatment options may require preliminary consultation with the medical control physician. These particular procedures/interventions are indicated in the individual clinical care guidelines. Should communication problems occur, an exception shall be permitted if potential patient deterioration is eminent. In such cases, the circumstances involved will be documented on the Patient Report.
- 5) When medical control is utilized, the Medical and Surgical-Trauma communications standard will be strictly adhered to. Each medic has been issued a copy of this document and it should be closely followed when presenting a patient to the medical control physician. This is to facilitate patient reporting so as to guard against unnecessary radio traffic. (See sample formats)
- 6) Past medical history and medications that are pertinent to the patient's chief complaint should be reported.

  The emergency physician will obtain all other information when the patient arrives at the hospital.
- 7) Slang terminology should not be used.
- 8) Except under certain circumstances, complete reports should last no longer than 45 seconds.
- 9) The medical control physician should initially identify the unit to which he/she is communicating, then himself or herself. It is not important to verify the physician's name unless doubt exists about whether an MD or RN is taking the report. The physician's name can be obtained after arrival at the hospital.
- 10) Completed Patient Reports will be documented and submitted per State guidelines.

## Clinical Care Guideline - A5 **Medical Patient Radio Script** 12/12/2014

PARAMEDIC YOUR NAME.

ON UNIT# TO HOSPITAL, COPY?

REQUESTING A NURSE / PHYSICIAN TO THE RADIO FOR REPORT / ORDERS

**ENROUTE WITH A:** 

AGE, M/E

COMPLAINING OF:

CHIEF COMPLAINT.

HX OF PRESENT ILLNESS:

BRIEF SUMMARY.

PATIENT HAS A HX OF:

PERTINENT TO CHIEF COMPLAINT.

**CURRENT MEDICATIONS:** 

LIST AND DOSE IF PERTINENT TO CC.

PHYSICAL EXAM:

VITALS:

BP. PULSE, RESPIRATIONS.

GENERAL:

AVPU / DISTRESS.

SKIN:

WARM / DRY / COOL / CLAMMY.

LUNGS:

CLEAR / RALES / RONCHI / WHEEZES.

**ECG SHOWS:** 

STEMI vs. non-STEMI

RATE, RHYTHM, MORPHOLOGY

and transmitted vs. not transmitted.

TREATMENT:

ALREADY PERFORMED.

**REQUESTING ORDERS FOR:** <u>MEDICATION / PROCEDURE.</u>

(REPEAT ORDERS BACK TO PHYSICIAN)

ETA IS:

MINUTES.

## Clinical Care Guideline - A6 **Trauma Patient Radio Script** 12/12/2014

PARAMEDIC YOUR NAME.

ON UNIT# TO HOSPITAL, COPY?

REQUESTING A NURSE / PHYSICIAN TO THE RADIO FOR REPORT / ORDERS

**ENROUTE WITH A:** 

AGE, M/E.

INJURED VIA A:

MECHANISM.

HX OF INJURY:

BRIEF DESCRIPTION OF CIRCUMSTANCES

PHYSICAL EXAM:

VITALS:

BP, PULSE, RESPIRATIONS, PULSE OX

GENERAL:

GCS / MAE / PUPILS.

LUNGS:

CLEAR / RALES / RONCHI / WHEEZES.

ABDOMEN:

SOFT / TENDER / RIGID / DISTENDED

PELVIS:

STABLE / UNSTABLE.

**EXTREMITIES:** 

DEFORMITIES / PULSES.

TREATMENT:

ALREADY PERFORMED.

TRIAGE CATEGORY:

PHYSIOLOGIC / ANATOMIC / MECHANISM / MEDIC JUDGMENT

**REQUESTING ORDERS FOR:** <u>MEDICATION / PROCEDURE.</u>

(REPEAT ORDERS BACK TO PHYSICIAN)

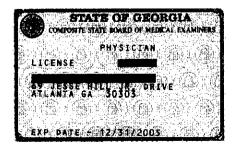
ETA IS:

MINUTES.

# Clinical Care Guideline – A7 On-Scene Physician 12/12/2014

## Licensed Georgia Physician On-Scene

- 1) The following guidelines apply to situations in which prehospital care providers encounter an on-scene physician that has a pre-established relationship with the patient (responding to medical facility) or when a physician bystander wishes to render or direct care subsequent to EMS arrival on scene.
- 2) Prehospital care providers should introduce themselves and define their level of training and agency affiliation immediately upon scene arrival. They should then request a brief patient report from the on-scene physician.
- 3) Prehospital care providers will always independently assess the patient upon initial arrival at the scene regardless of on-scene physician presence. In the case of an established physician-patient relationship, it is appropriate and encouraged for the prehospital care providers to discuss the initial patient assessment and treatment plan with the on-scene physician.
- 4) Prehospital care providers will manage the patient according to established FCEMS Clinical Care Guidelines.
- 5) An appropriately licensed Georgia physician can and may assume control of patient treatment. If the physician wishes to assume control of patient management, the following criteria must be satisfied:
  - a) The on-scene physician produces a current State of Georgia Medical License (See example below). Or is easily recognized as a licensed physician (Hospital ID, Location of Incident).
  - b) The on-scene physician agrees to accompany the patient in the ambulance to the hospital. This stipulation does not apply in a disaster or mass casualty situation where the situation may dictate that the physician remain at the scene of the incident
- 6) In the event that the on-scene physician wishes to assume control of patient treatment, and the aforementioned conditions are satisfied then the on-scene physician and paramedic will adhere to the following stipulations:
  - a) The on-scene physician's Georgia Medical License number and expiration date will be recorded on the patient care report.
  - b) The paramedic, AEMT or EMT-I will only carry out procedural or medication orders that are within their scope of practice.
  - c) The on-scene physician will sign the patient care report.
  - d) If the paramedic, AEMT or EMT-I feels uncomfortable with any aspect of the patient care that is occurring they are to immediately contact his/her EMS service medical director and communicate their concern.



# Clinical Care Guideline – A8 On-Scene Equipment

12/12/2014

Upon arrival at the scene the crew will carry the following equipment to the patient's location prior to initial patient contact. The type of equipment brought to the scene will depend on the nature of the call as determined by dispatch:

#### Medical Incidents:

- 1) Designated upon dispatch as Emergent or patient located more than 100 feet and/or 1 story from the transport unit:
  - a) Jump kit with airway equipment and oxygen
  - b) Portable suction equipment
  - c) Cardiac monitor/defibrillator
  - d) Medication bag / IV start box
  - e) Stretcher
  - f) Toughbook (if issued)
- 2) Designated upon dispatch as Non-Emergent:
  - a) Jump kit with airway equipment and oxygen
  - b) Medication bag / IV start box'per medic judgement

#### Trauma Incidents:

- 1) Designated upon dispatch as Emergent or patient located more than 100 feet and/or 1 story from the transport unit:
  - a) Jump kit with airway equipment and oxygen
  - b) Immobilization and splinting supplies as indicated by mechanism
  - c) Stretcher
  - d) Portable suction equipment
- 2) Designated upon dispatch as Non-Emergent:
  - a) Jump kit with airway equipment and oxygen
  - b) Immobilization and splinting supplies as indicated by mechanism

#### Obstetrical Incidents:

- 1) Designated upon dispatch as Emergent or patient located more than 100 feet and/or 1 story from the transport unit:
  - a) Jump kit with airway equipment and oxygen
  - b) OB kit
  - c) Medication bag / IV start box
  - d) Stretcher
- 2) Designated upon dispatch as Non-Emergent:
  - a) Jump kit with airway equipment
  - b) OB kit
- 3) Pediatric Specific equipment if available

# Clinical Care Guideline – A9 Scene Evolution 12/12/2014

Patient evolution from the scene to the ambulance is preferentially accomplished with the stretcher or stair chair. However, under certain circumstances it may be appropriate to allow the patient to ambulate from the scene. The following guidelines outline the general contraindications for allowing the patient to walk to the ambulance or into the emergency department.

#### Patient Complaint Based Contraindications to Ambulation:

- · Chest pain
- Dyspnea
- Abdominal pain
- Pregnancy greater than six (6) months
- · Pregnancy with complications, regardless of gestational length
- Dizziness or syncope
- Recent loss of consciousness
- · Any pain or discomfort on ambulation
- · Vaginal bleeding

#### Patient Assessment Based Contraindications to Ambulation:

- Altered mental status
- Unstable vital signs
- Respiratory distress
- · Cardiac dysrhythmias
- Significant blood loss

## Mechanism of Injury Based Contraindications to Ambulation:

- · Blunt or penetrating trauma to the head, chest or abdomen
- · Spinal injury
- · Injury to lower extremities
- · Other significant injury

#### Other Relative Contraindications to Ambulation:

- Patient's age
- · Patient's general physical condition
- · Underlying physical disabilities
- Distance and obstacles.

# Clinical Care Guideline – A10 Prehospital Acuity Classification 12/12/2014

#### Prehospital Acuity Classification (PAC)

- 1) The PAC System is designed to aid prehospital providers in classifying patients for refusal of care, destination and hospital diversion decisions. Prehospital providers should use these guidelines and their clinical impression to place patients into one of three categories. The categorization boxes contain specific examples of conditions or presentations that typically place a patient in a particular category, but should not be considered an exclusive list that takes into account every patient presentation or prehospital situation:
  - a) Immediate Threat to Life PAC Level One
  - b) Time Dependent Emergency PAC Level Two
  - c) Potential Emergency / Urgency PAC Level Three
- 2) Patients that have vital signs outside of the normal range, but have no other evidence of a life threatening or time dependent emergency may be categorized as PAC Level 2 or Level 3 based on the clinical judgment of the on-scene provider.

YES

YES

#### Immediate Threat to Life

- Active airway management required (ETT, NVAD, OP Airway, BVM)
- Severe respiratory distress with SPO 2 < 90%
- Pulseless
- Systolic BP < 90 mmHg</li>
- · Acute change in mental status
  - GCS < 14
- · New onser CVA
- Chest pain with EKG or history consistent with MI

## Time Dependent Emergency

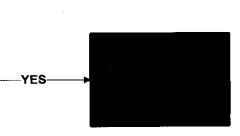
- New onset confusion or disorientation
- · Severe pain unrelieved by prehospital intervention
- Patient condition not improving or deteriorating despite prehospital intervention
  - · Respiratory distress
  - Allergic reaction
  - Hypoglycemia
  - Chest pain

#### Vital Signs Outside of Normal Range

Age	RR	HR	SPO2	
< 3 m	> 50	> 180	< 92%	——With Concerning Clinical Presentation
3 m to 3 y	> 40	> 160	< 92%	
3 – 8 y	> 30	> 140	< 92%	
> 8 v	> 20	> 100	< 92%	<del></del>

#### Potential Emergency / Urgency

• A threat to life or time dependent emergency is not identified



PAC

Level Two

# Clinical Care Guideline – All Patient Destination 12/12/2014

The following directives apply to all patients transported by a FCEMS unit during the course of normal 911 operations.

- 1) The patient will be transported to the hospital of his or her choice providing that the hospital chosen is within a reasonable distance of the patient's location and is capable of meeting the patient's immediate needs.
- 2) A reasonable distance is defined as follows:
  - a) 5 miles or 10 minutes from the point of origination for patients that meet Prehospital Acuity Classification Level One.
  - b) 10 miles or 15 minutes from the point of origination for patients that meet Prehospital Acuity Classification Levels Two or Three.
- 3) If a patient requests a destination hospital that is inconsistent with the aforementioned definition of "reasonable distance" the paramedic will inform them of this situation and chose an alternative hospital that is capable of meeting the patient's immediate needs and falls within the area defined by "reasonable distance". If the patient still demands transport to a hospital that falls outside of the "reasonable distance" criteria, supervision should be immediately contacted to resolve the issue.
- 4) If the paramedic, AEMT, or EMT-I believes that a requested destination hospital is incapable of meeting the patients needs (i.e. critical pediatric patient with parental request to be transported to non-pediatric center), the paramedic will immediately contact on-line medical control at the requested destination hospital to inform them of the situation, and allow them to potentially converse with the patient or caretaker.
- 5) Trauma patients should be categorized via the Trauma Destination Criteria guideline and transported to the closest appropriate trauma center. Pediatric trauma patients should preferentially be transported to the closest appropriate pediatric trauma center. Trauma patients that are at imminent risk for cardiac arrest or have an unmanageable prehospital condition such as an airway obstruction should be taken to the closest emergency room irrespective of classification.
- 6) Patients with evidence of an ST Elevation MI (STEMI) or a high clinical suspicion for acute myocardial infarction should be taken to the closest STEMI facility as detailed in the TIME Criteria (A13).
- 7) Patients with a suspected acute stroke should be taken to the closest appropriate Stroke Center consistent with Patient Choice and Reasonable Distance.
- 8) Burn patients that meet the criteria for a major burn as defined by FCEMS CCG's (Burn Categorization) will be transported to Grady Memorial Hospital. OLMC should be immediately consulted for a patient that meets criteria for transport to the GMH Burn Center, but requests an alternative hospital.
- 9) See Pediatric Guidelines for pediatric destination criteria.

Reference the Georgia Rules and Regulations #111-9-2, OCGA 31-11

## Clinical Care Guideline – A12 Trauma Destination Criteria 12/12/2014

#### Level One Centers

Grady Memorial Hospital Atlanta Medical Center

#### Level Two Centers

North Fulton Hospital Gwinnett Medical Center Kennestone Hospital

#### Pediatric Trauma Centers

For children under 15, see pediatric guidelines

#### Level One

Egleston Childrens Hospital

#### Level Two

Scottish Rite Childrens

- Glasgow Coma Scale < 14
- Systolic BP < 90
- Respiratory < 10 or > 29 (<20 in infant < one year)</li>

Meets physiologic criteria?

- All penetrating injuries to head, neck, torso and extremities proximal to elbow or knee
- Chest wall instability or deformity (e.g. flail chest)
- 2 or more proximal long-bone fractures
- Crushed, degloved, mangled, or pulseless extremity
- Amputation proximal to wrist and ankle
- Pelvic fractures
- Open or depressed skull fracture
- Paralysis

Transport to a
Trauma Center.
These criteria attempt to identify the most seriously injured patients. They should be transported preferentially to the highest level of care in the defined trauma system.

YES

# sgow Coma Scale

## Eye Opening

spontaneous 4 to voice 3 to pain 2 none 1

#### Best Verbal Response

oriented 5
confused 4
inappropriate words 3
incomprehensible 2
none 1

#### Best Motor Response

obeys commands
localizes pain
withdraws to pain
abnormal flexion
abnormal extension
none

6

5

withdraws to pain
2

abnormal extension
1

Transport to the closest appropriate facility



Adults: > 20 ft. (one story is equal to 10 feet)

Children: > 10 ft. or 2-3 times the height of the child

High-risk auto crash

Intrusion, including roof: > 12 in. occupant site; > 18 in. any site

Ejection (partial or complete) from automobile

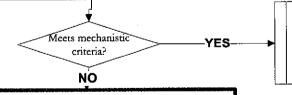
Death in same passenger compartment

Vehicle telemetry data consistent with a high-risk of injury

Meets anatomic

criteria?

- Auto vs. pedestrian/bicyclist thrown, run over, or with significant (>20 MPH) impact
- Motorcycle crash > 20 mph



Transport to a
Trauma Center.
Need not be the
highest level trauma
center.

#### Older Adults

Risk of injury/death increases after age 55 years SBP <110 may represent shock after age 65

SDF \110 may represent snock after age 03

Low impact mechanisms (e.g. ground level falls) may result in severe injury

#### Children

Should be triaged preferentially to pediatric capable trauma centers

Anticoagulation and bleeding disorders

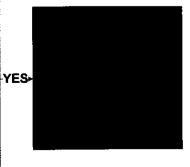
Patients with head injury are at high risk for rapid

#### Burns

**←NO**-

Without other trauma mechanism: triage to burn center With trauma mechanism: triage to trauma center

- Pregnancy > 20 weeks
- EMS provider judgment



# HOSPITAL

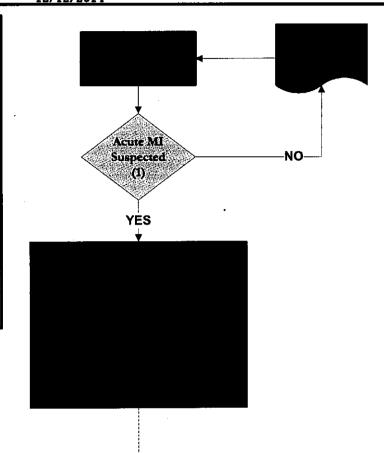
# Fulton County Emergency Medical Services

## Clinical Care Guideline - A13

Timely Intervention for Myocardial Emergencies (T.I.M.E)
12/12/2014

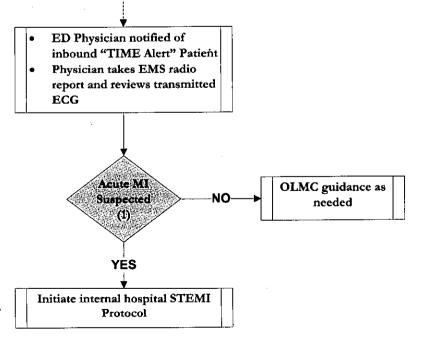
- 1. An acute MI should be suspected when the ECG demonstrates evidence of ST segment elevation of greater then 1 mm in two or more leads or the constellation of history and physical findings makes the diagnosis of an Acute MI (AMI) likely.
- 2. Recommended on-scene time is 10 minutes.

"Time Alert Patients" should be transported to the closest STEMI facility or a STEMI facility consistent with the Reasonable Distance Criteria (A11)



 After review of the ECG and EMS report the ED physician should activate the internal hospital STEMI Protocol if there is evidence of an ST elevation MI. In cases where the ECG is non-diagnostic the ED physician can elect to evaluate the patient in the ED upon arrival.

TIME Alert patients with evidence of STEMI will not be subject to hospital diversion.



# Clinical Care Guideline – A14 Hospital Diversion 12/12/2014

All patients will be transported primarily to their hospital of choice as outlined in the *Patient Destination* Guideline (A11). On the occasion that a chosen destination hospital is on diversion the following polices will be utilized by FCEMS providers.

- 1) When the primary destination hospital is on diversion a PAC-Level One Patient may be transported to an alternative hospital capable of meeting the patient's needs that is no more than 5 miles or 10 minutes from the origination point of the call. FCEMS providers will make every attempt to honor hospital diversion as long as:
  - a) an alternate hospital within a reasonable distance is capable of accepting the patient, and
  - b) the patient is agreeable to an alternative destination. PAC-Level Two Patients may be transported to an alternative destination hospital capable of meeting the patient's needs that is no more than 10 miles or 15 minutes from the origination point of the call with the aforementioned stipulations.
- 2) If all hospitals within a Reasonable Distance are on diversion, then hospital destination will be selected based on the following criteria in descending order:
  - a) Within 5 miles or 10 minutes of call origination for PAC-Level One Patients
    Within 10 miles or 15 minutes of call origination for PAC-Level Two Patients
  - b) Patient Choice
- 3) The only circumstance under which a PAC-Level One Patient is to be transported a distance greater than 5 miles or 10 minutes is when the point of call origination is greater than 5 miles or 10 minutes from a hospital capable of serving the patients needs, or the hospital(s) within 5 miles or 10 minutes is (are) closed to all patients.
- 4) PAC-Three Patients may be transported to the hospital of their choice provided that the selection is consistent with the definition of reasonable distance as defined in the Patient Destination Guideline (A11). The only exception is when the destination hospital is closed to all patients .
- 5) Trauma patients will be categorized according to Trauma Destination Criteria (A12) and transported to the closest appropriate Trauma Center. On the occasion that a chosen destination Trauma Center is on diversion the following polices will be utilized by FCEMS providers.
  - a) The patient will be transported to an alternative Trauma Center provided it is within 5 miles or 10 minutes from call origination.
  - b) If all Trauma Centers within a 5 mile or 10 minute radius from the point of origination are on diversion then the patient will be transported to the closest Trauma Center.
  - c) Trauma patients who are at imminent risk for cardiac arrest or have an unmanageable prehospital condition such as an airway obstruction should be taken to the closest hospital ED irrespective of trauma or diversion status.

# Clinical Care Guideline – A15 Patient Refusal of Transport 12/12/2014

Patients encountered by FCEMS may refuse treatment or transportation. It is expected that crews will encourage patients who requested 911 services be transported to a hospital Emergency Department for evaluation. When a patient does refuse treatment or transportation FCEMS personnel should observe the following guidelines.

- 1) FCEMS Transport Agencies will take patients to the hospital of their choice consistent with the FCEMS Patient Destination Guideline (A11).
- 2) Under no circumstances will FCEMS providers refuse or encourage refusal of treatment or transport to any patient encountered during regular 911 operations in the FCEMS service area.
- 3) Patients under the age of 18 and non-emancipated minors may not personally refuse transport to the hospital. They may refuse all treatment that is not deemed life-saving or limb-preserving by the on-scene provider, but must be transported to the hospital unless an appropriate legal guardian with adequate medical decision making capacity is willing to sign a transport refusal form.
- 4) Any patient or appropriate legal guardian may refuse transport of self or a dependent if they demonstrate adequate medical decision making capacity. If the FCEMS provider has any question about the patient's medical decision making capacity they should obtain on-line medical control consultation. Adequate Medical Decision Making Capacity is defined as follows:
  - a) Able to make informed decisions regarding health.
  - b) Able to understand the nature and severity of their potential disease process.
  - c) Able to understand the risks of refusing care; including death and permanent disability.
  - d) Appears lucid and unimpaired by an exogenous substance or disease process as elaborated below:
    - i) Alert and oriented to person, place and time
    - ii) Not under the obvious effects of alcohol or drugs
    - iii) Judgment is not impaired by a medical condition (ie: hypoxia)
  - e) Able to understand and sign the transport refusal form
  - f) Does not voice homicidal or suicidal tendencies
- 5) If a patient (or legal guardian) refuses transport of self or of a dependent child or adult the following procedures will be followed:
  - a) The FCEMS Patient Care Report will be completed with demographics, vital signs, description of injury or illness, past medical history, medications, treatment rendered and reason for refusal.
  - b) Medical control will be contacted to review the refusal if the following conditions exist:
    - i) Adult Patients
      - (1) Patient is PAC Level-One or Two based on provider assessment
      - (2) Provider has questions regarding the clinical situation
    - ii) Pediatric Patients
      - (1) The patient is below the age of two years
      - (2) Age greater than two years and meets PAC Level-One or Two based on provider assessment
      - (3) Provider has questions regarding the clinical situation
  - c) The on-duty supervisor will be contacted for questions regarding PAC-Level Three Patients.
  - d) The Sewrvice Transport Refusal Form will be explained to the patient (guardian) and a signature obtained.

#### Clinical Care Guideline - A16 Do Not Initiate Resuscitative Efforts 12/12/2014

#### Obvious signs of death include:

- Decapitation or obvious mortal injury Rigor mortis
- Dependent lividity
- Decay or decomposition
- Submersion in water preater than 6 hours.

Genegia law on Cardiopulmonary Resuscitation
(O.C.G.A. §31-39-1 et. seq.) forms the basis for all
guidelines regarding prehospital management of Do
Not Resuscitate situations.

A valid Georgia DNR is evidenced in writing and contains the following information on a form similar sethe one in the law (see sample document):

Patient's name
Date of form

- Printed name of attending physician Signature of attending physician

A patient may also be wearing a bracelet or necklace that is similar to ID bracelets worn in hospitals and must be on an orange background to accompany the written order with the following information in

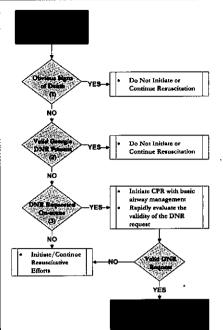
- Authorized person's name and phone number; if applicable
  Patient's physician's printed name and telephone
- number
- Date of order not to resuscitate
- Prehospital providers may encounter situations where valid Georgia DNR document is not readily available or a DNR is requested on-scene by a family member or guardian after cardiac arrest has occurred. In those situations the prehospital provider will rapidly assess the validity of the request. A valid request will satisfy both of the following components: Patient condition:
  - Has a medical condition which can reasonably be expected to result in the imminent death of the
- patient

  is in a non-cognitive state with no reasonable possibility of regaining cognitive functions or CPR would be medically futile

  An authorized person requests a DNR order:

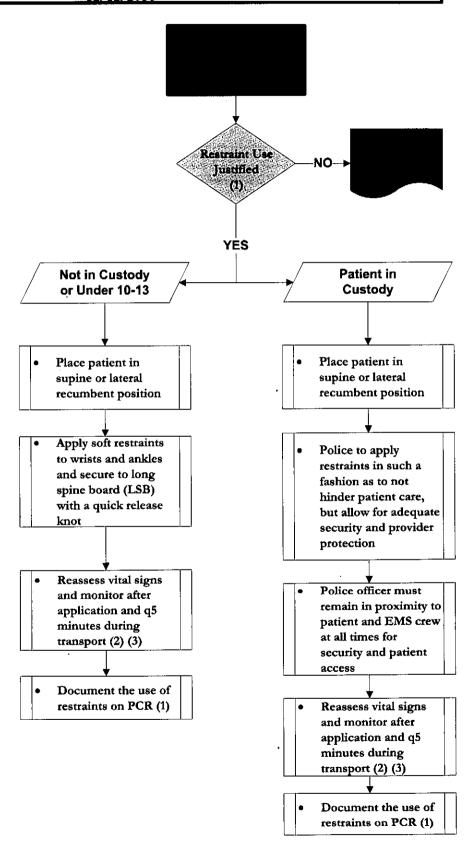
  Durable Power of Autorney for Health Care (DPOA-HC) for the patient

- Spouse; guardian of person; son or daughter 18 years of age or older; parent; brother or sister 18 years of age or older.
- Parent of a minor child



# Clinical Care Guideline - A17 Patient Physical Restraint 12/12/2014

- 1. Prehospital providers must identify and document one of the following patient conditions prior to applying soft restraints or managing a patient with restraints applied by police:
  - Patient unable to follow instructions and at high risk for injury and or dislodging lines/ tubes
  - Patient is a danger to self or others
  - Patient is in police custody
- Patient restraint will be documented on the PCR and include the justification for restraint use, type and location of restraints used, vital signs q5 minutes during restraint and duration of time restrained.
- All restrained patients should have 3 lead ECG monitoring and pulse oximetry monitoring if possible.
- Consider Chemical Restraint if patient is physically restrained



# Clinical Care Guideline – A18 Fulton County Medical Examiner & Crime Scenes 12/12/2014

The Fulton County Medical Examiners (FCME) Office is tasked with investigating all deaths within the County. FCEMS providers will assist the medical examiner by insuring that they are notified of all deaths encountered during the course of prehospital operations.

- 1) The following situations will require that the FCME Office be notified of a prehospital death:
  - a) Obvious death and no resuscitation attempted (A16)
  - b) DNR present and no resuscitation attempted or resuscitation terminated (A16)
  - c) Termination of resuscitation via the Prehospital Resuscitation Cessation Guideline (M 4)
  - d) No resuscitation attempted or resuscitation terminated secondary to traumatic arrest via the *Traumatic Cardiac A rrest* Guideline (T7)
- 2) Upon determining that resuscitation will not be attempted or resuscitation efforts will be terminated, FCEMS providers will take the following actions:
  - a) Ensure the security of the scene
  - b) Notify the EMS supervisor on duty
  - c) If not already present, request police response
  - d) Have the police officer Notify the FCME investigator on duty at 404-730-4400. If police response is delayed or unavailable, FCEMS providers should primarily notify the FCME investigator on duty
  - e) Leave endotracheal tubes, non-visualized airway devices, IV and IO catheters in place
  - f) Maintain scene security until PD or the FCME investigator arrive, whichever is first
- 3) Please be prepared to provide the Fulton County Medical Examiner with the following information:
  - a) Namc/DOB
  - b) Medical history
  - c) Medications
  - d) Primary physician
  - e) Physician giving permission for resuscitation termination
  - f) Call times
  - g) Any movement/modification of the body
- 4) When entering a scene where foul play is suspected please pay attention to the following guidelines:
  - a) Ensure scene safety, and notify the police if they are not on scene.
  - b) Do not touch or move anything unless it is absolutely essential for patient care. If anything is touched or moved, please advise the police.
  - c) Limit access to only essential personnel.
  - d) Do not handle a suicide note.
  - e) Carefully preserve all potential evidence.
  - f) Hangings leave all knots intact, including the knot that the rope is suspended from and the knot making the "noose". Cut the rope in an area between the knots if patient care dictates
  - g) If clothing needs to be removed, do not cut through material that has been punctured or perforated as this may disrupt evidence.
- 5) If child abuse is suspected, see Pediatric protocol 5.18.

## Clinical Care Guideline – A19 Emergency Vehicle Operation Mode 12/12/2014

The decision to utilize Red Lights and Sirens (RL&S) should be based on patient condition and the potential for time dependent deterioration. The responding crew will be responsible for safe vehicle operation regardless of the response mode.

- 1) FCEMS providers should keep in mind that the use of RL&S is associated with an increased risk for traffic crashes and reserve this mode of transport for patients that will benefit from the potential time savings.
- 2) The response mode to the scene will be determined by dispatch according to the Medical Priority Dispatch System protocols. Emergency response modes are agency specific. The requests for service will be classified as follows:
  - a) Non-Emergency RL&S response not indicated
  - b) Emergency RL&S response indicated
- 3) RL&S use for return trips to the hospital shall be determined by the paramedic/EMT providing direct patient care. The decision should be based entirely on patient acuity and be guided by the following parameters. It is the prerogative of the provider(s) providing patient care to alter the vehicle operation mode in response to changes in patient condition, road conditions or traffic patterns:
  - a) RL&S Indicated if Traffic & Road Conditions Permit
    - i) PAC-Level 1 Patients
    - ii) PAC-Level 2 Patients if the provider feels that the potential time savings of RL&S will benefit the patient
  - b) RL&S Not-Indicated
    - i) PAC-Level 3 Patients
    - ii) PAC-Level 1&2 Patients that will derive no obvious clinical benefit from time savings associated with RL&S use

# Fulton County Emergency Medical Services Clinical Care Guidelines

## Clinical Care Guidelines Intervention / Procedure 12/12/2014

Il	Initial Patient Assessment & Management	12/12/2014
I2	Airway Management	12/12/2014
13	Hemorrhage Control	12/12/2014
<b>I4</b>	Spinal Immobilization	12/12/2014
<b>I</b> 5	Trauma Volume Resuscitation	12/12/2014
16	Mask Continuous Positive Airway Pressure	12/12/2014
17	Cardioversion	12/12/2014
<b>I</b> 8	Transcutaneous Pacing	12/12/2014
19	Defibrillation	12/12/2014
110	CardioPulmonary Resuscitation	. 12/12/2014
<b>I</b> 11	Intraosseous Access	12/12/2014
112	Intravenous Access	12/12/2014

## Clinical Care Guideline - Il **Initial Patient Assessment & Management** 12/12/2014

Primary Survey

Past Episodes

**AMPLE History** Allergies

Last Meal

Vital Signs

LOC

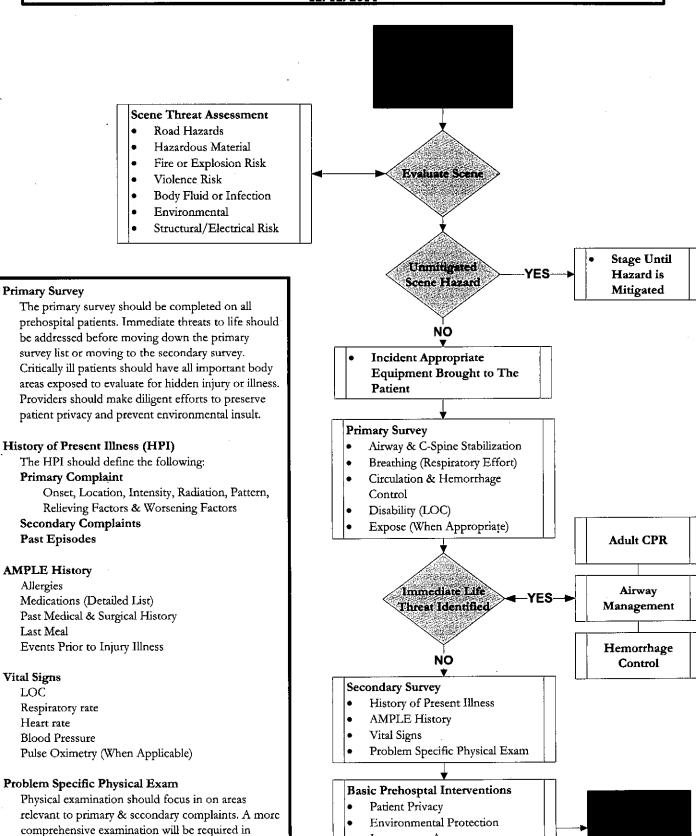
Respiratory rate

**Blood Pressure** 

patients with an altered level of consciousness, multi-

system illness or multi-system injury.

Heart rate

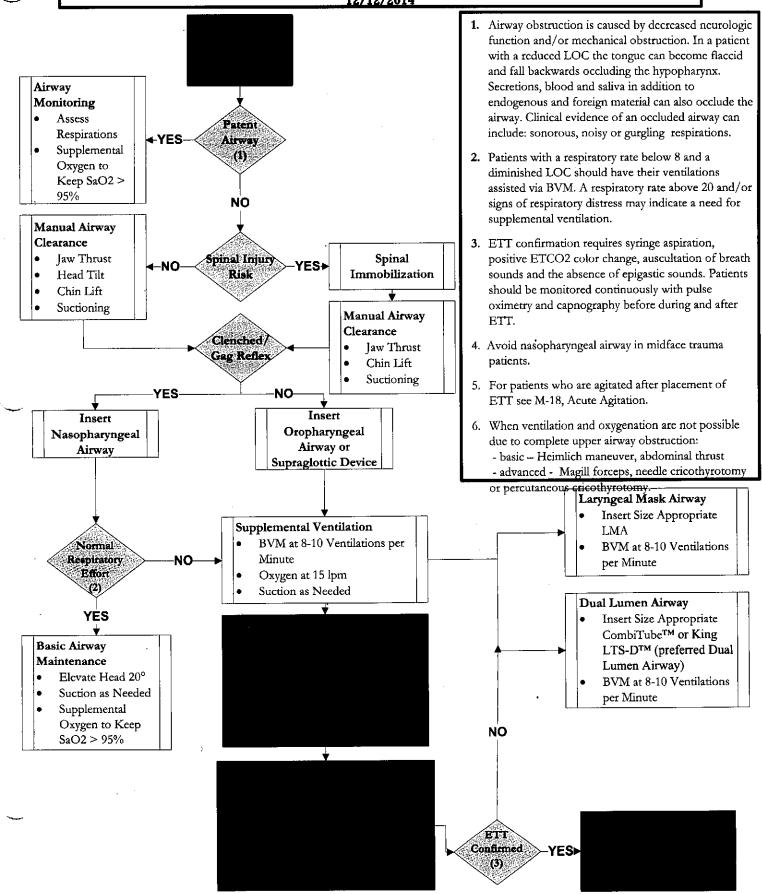


Intravenous Access

Oxygen Therapy

Cardiac Monitor

Clinical Care Guideline – I2
Airway Management
12/12/2014



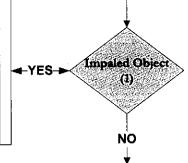
# Clinical Care Guideline – I3 Hemorrhage Control

12/12/2014

## Stabilize Impaled Object

- Do Not Remove Impaled Object in the Prehospital Environment
- Stabilize Object with Surrounding Gauze Dressings
- Apply Direct Pressure Around the Edges of the Impaled Object to Control Hemorrhage and stabilize impaled object

- 1. The management of the impaled object in the prehospital environment may involve creative patient extrication and stabilization techniques. Because of the risk of significant uncontrolled hemorrhage after removal, every effort should be made to leave the impaled object in place until the patient reaches definitive care.
- 2. Major extremity vessel injuries will likely require constant manual pressure to control bleeding. If human resources are limited consider moving immediately to tourniquet application in these situations.
- 3. Consider combat gauze for non-tourniquetable hemorrhage.
- Morphine or Fentanyl is to be administered IV to patients without history of allergy and SBP > 90 mm/hg.

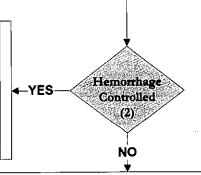


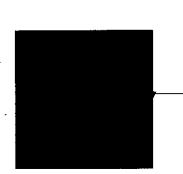
#### Direct Pressure

- Apply Gauze to Wound Site (3)
- Direct and Continuous focal Manual Pressure to Wound Site Until Hemorrhage Stops
- Major Vessel Injury Will Likely Require Direct focal Manual Pressure on the Bleeding Site for the Entirety of Prehospital Transport

#### Prehospital Compression Dressing

- Pad Bleeding Site with Gauze
- Apply Elastic Bandage Over Gauze
- Compression Dressing Should be Tight Enough to Control On-going Hemorrhage
- Assess Distal Neurovascular Function After Application

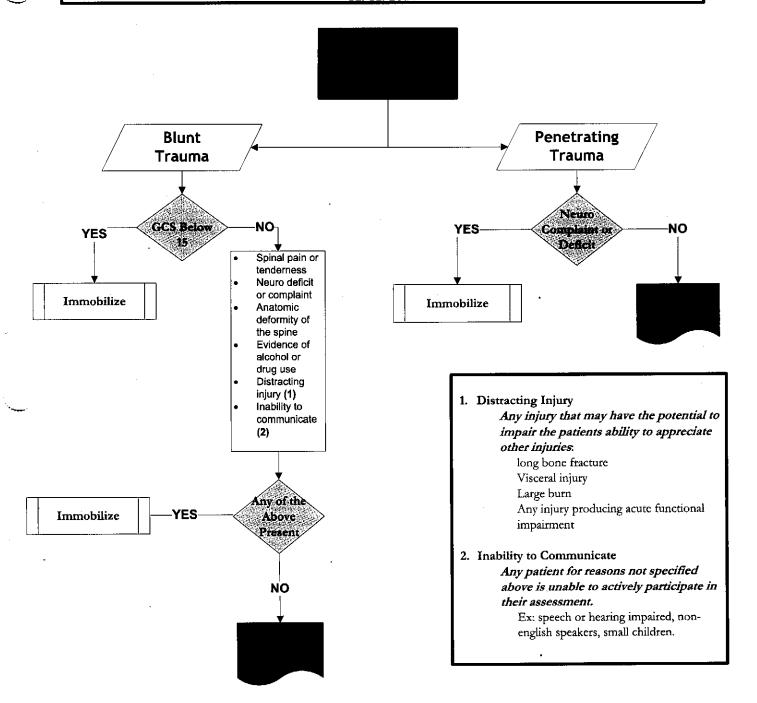




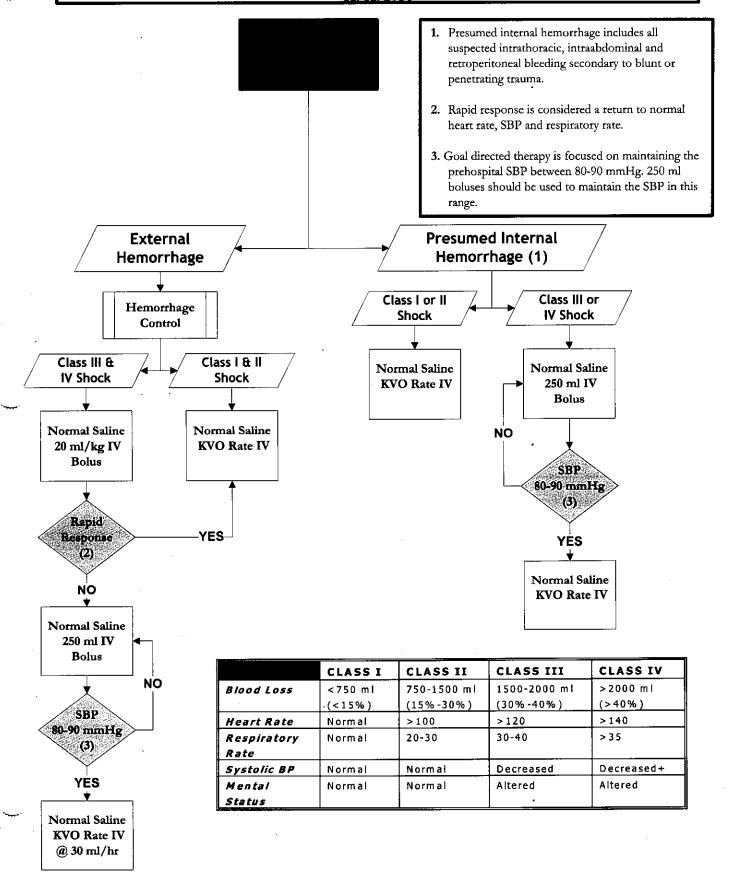
#### Tourniquet Application

- Apply BP Cuff, "Spanish Windlass" or Commercial Tourniquet to Extremity Proximal to Bleeding Site
- Tighten Tourniquet until Bleeding Stops (distal pulse should be absent
- Document Tourniquet Application Time Directly on the Tourniquet
- Monitor Wound Site for On-going Bleeding
- Consider Pain Management
- Transport to Level 1 or 2 Trauma Center
- Consult OLMC if Tourniquet Application Could Exceed 90 Minutes

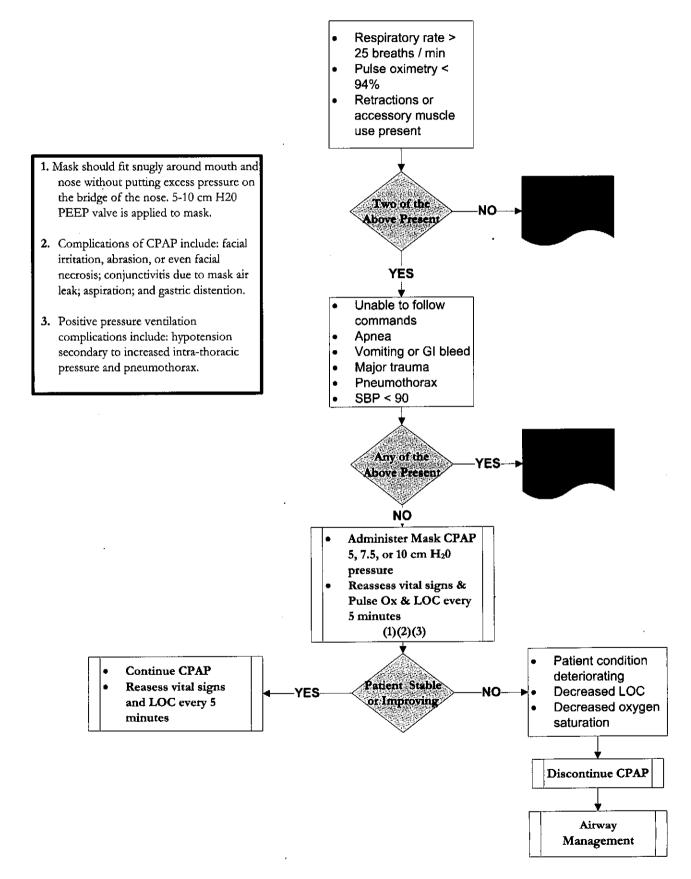
# Clinical Care Guideline – I4 Spinal Immobilization 12/12/2014



# Clinical Care Guideline – I5 Trauma Volume Resuscitation 12/12/2014

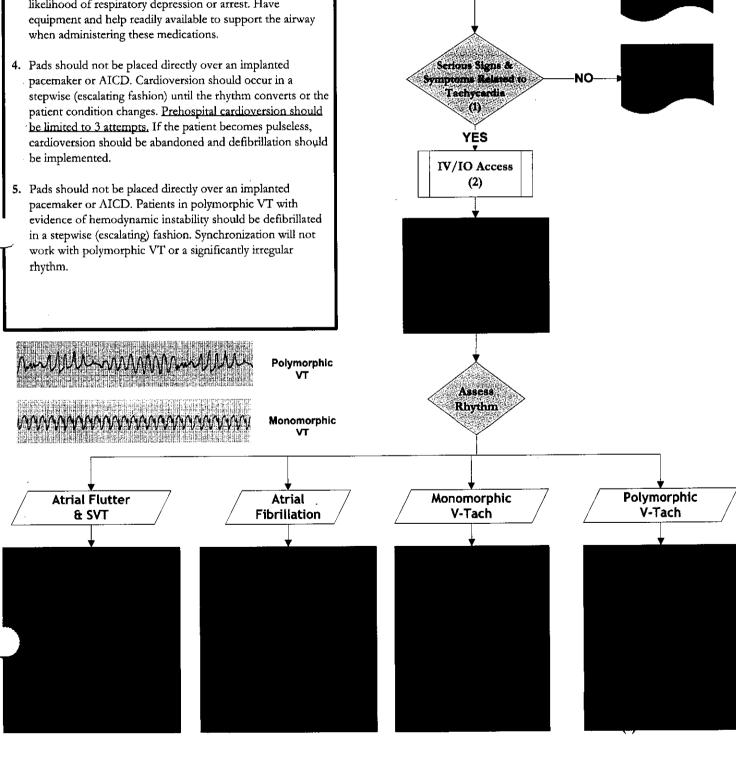


# Clinical Care Guideline – I6 Mask Continuous Positive Airway Pressure 12/12/2014



#### Clinical Care Guideline - 17 Cardioversion 12/12/2014

- Rate related cardiovascular compromise with serious signs and symptoms such as altered mental status, ongoing chest pain, hypotension or other signs of shock.
- 2. If IV access is not easily established, the EMT-P can elect to place an IO to facilitate medication administration.
- 3. Diazepam can cause hypoventilation and potentially respiratory arrest. The addition of morphine can increase the likelihood of respiratory depression or arrest. Have equipment and help readily available to support the airway



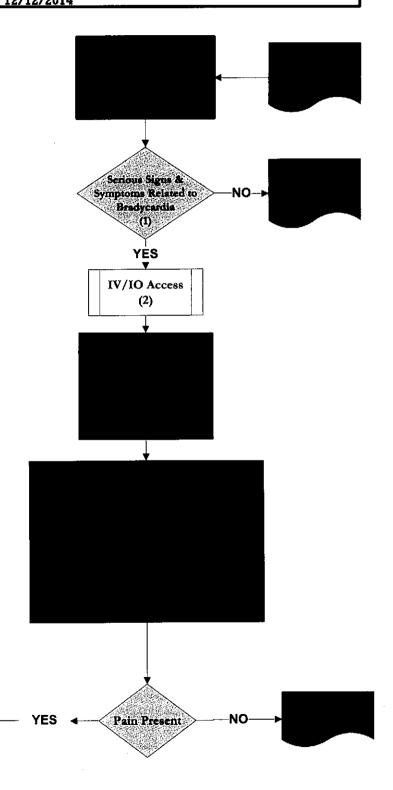
#### Clinical Care Guideline - 18

Transcutaneous Pacing

- Rate related cardiovascular compromise with serious signs and symptoms such as altered mental status, ongoing chest pain, hypotension or other signs of shock.
- 2. If IV access is not easily established, the EMT-P can elect to place an IO to facilitate medication administration.
- 3. Diazepam/Midazolam can cause hypoventilation and potentially respiratory arrest. The addition of morphine can increase the likelihood of respiratory depression or arrest. Have equipment and help readily available to support the airway when administering these medications.
- 4. Pads should not be placed directly over an implanted pacemaker or AICD. Pacing should be initiated at 70 beats per/min and 20 mA. The energy level should be advanced every 10-15 seconds in 10 mA increments to a maximum of 200 mA. Electrical capture should be immediately correlated with mechanical capture (palpable pulse).

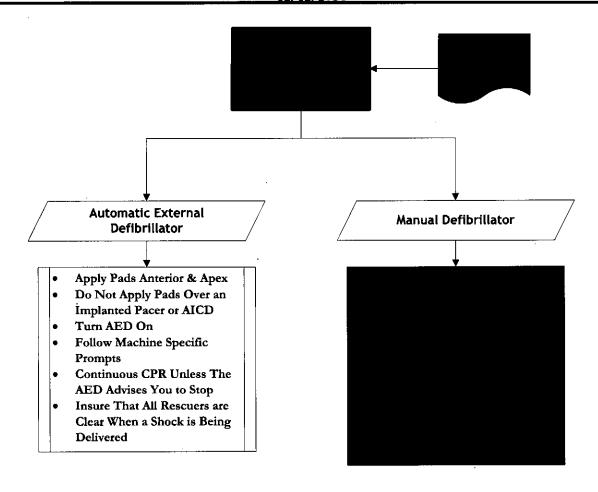
Patients that do not have mechanical capture or cannot tolerate pacing should be treated via the secondary options outlined in the Bradycardia Protocol.

Pulseless patients can have consistent electrical capture without coincident mechanical capture. These patients should be treated via the Asystole/PEA Protocol.



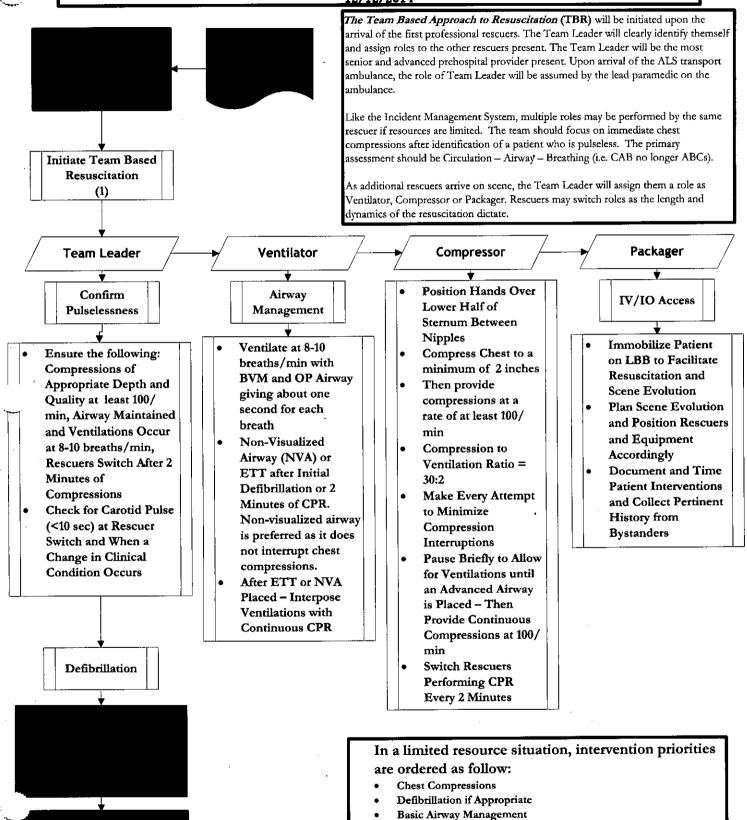
## Fulton County Emergency Medical Services Clinical Care Guideline - 19

#### Clinical Care Guideline – : Defibrillation 12/12/2014



#### Clinical Care Guideline - Il0 Cardiopulmonary Resuscitation

12/12/2014



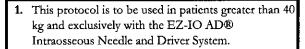
IV/IO Access

ETT or Non-Visualized Airway Insertion Rhythm Appropriate Medications

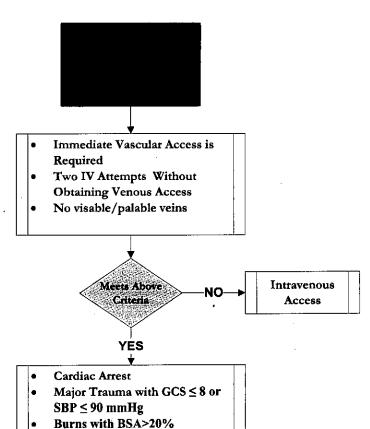
#### Clinical Care Guideline - Il1

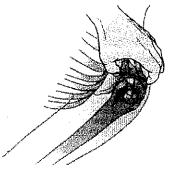
Intraosseous Access

12/12/2014

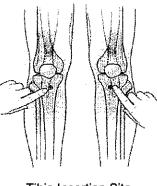


- 2. Contraindications to IO insertion include <u>fracture of the bone</u> selected for insertion, <u>orthopedic hardware</u> at the site selected for insertion, IO previously placed within the last 24 hours at the site selected for insertion, Excessive tissue at the site selected for insertion resulting in absent landmarks or <u>infection at the site</u> selected for insertion. In the presence of contraindications, alternate, approved sites should be evaluated for use.
- 3. Approved IO insertion sites include the proximal tibia, distal tibia and proximal humerus. In cardiac arrest, the proximal humerus is the preferred site for IO insertion.
- 4. EMT-P level providers may administer 30 mg (1.5 ml) of 2% Lidocaine (preservative free) slow IO prior to flushing the catheter with 10 ml of normal saline.

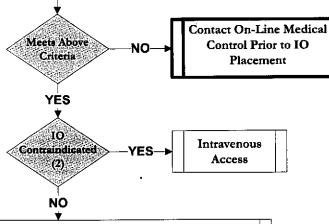




Humerus Insertion Site Courtesy VidaCare Corporation



Tibia Insertion Site Courtesy VidaCare Corporation



Locate appropriate insertion site (Proximal/Distal Tibia or Proximal Humerus)(3)

Critically ill patients meeting

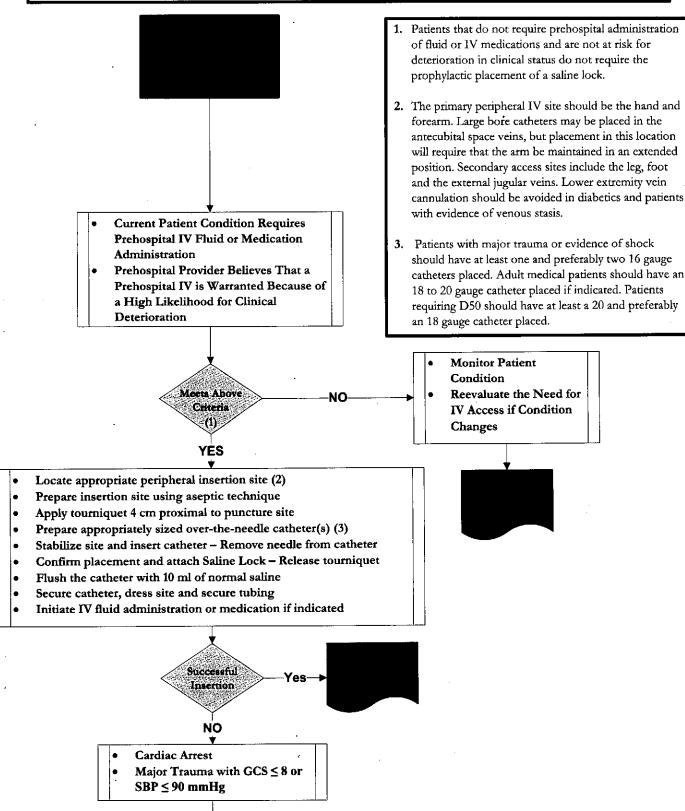
PAC 1 criteria

- Prepare insertion site using aseptic technique
- Prepare EZ-IO AD® needle and driver
- Stabilize site and insert needle Remove stylet from catheter
- Confirm placement and attach EZ-Connect® tubing
- Flush the catheter with 10 ml of normal saline
- Initiate IV fluid administration with pressure bag
- Dress site, secure tubing and apply armband to patient
- Advise ED that catheter must be removed within 24 hours

#### Clinical Care Guideline - I12

#### **Intravenous Access**

12/12/2014



Intraosseous Access

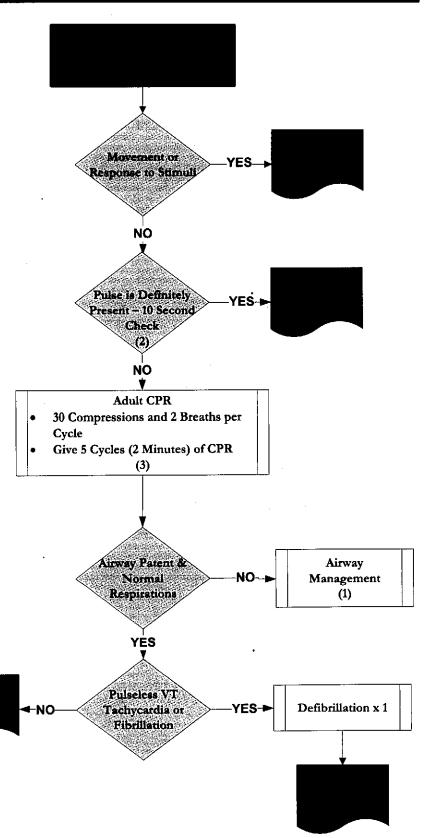
# Fulton County Emergency Medical Services Clinical Care Guidelines

## Clinical Care Guidelines Adult Medical 12/12/2014

M1         Initial Approach to The Unresponsive Patient – Adult BLS         12/12/2014           M2         Pulseless Arrest – Ventricular Fibrillation / Ventricular Tachycardia         12/12/2014           M3         Pulseless Arrest – Asystole / Pulseless Electrical Activity         12/12/2014           M4         Prehospital Resuscitation Cessation         12/12/2014           M5         Wide Complex Tachycardia         12/12/2014           M6         Narrow Complex Tachycardia         12/12/2014           M7         Bradycardia         12/12/2014           M8         Premature Ventricular Contractions         12/12/2014           M9         Hypertension         12/12/2014           M10         Shock / Hypotension         12/12/2014           M11         Respiratory Distress         12/12/2014           M12         Chest Pain         12/12/2014           M13         Hyperkalemia, Suspected         12/12/2014           M14         Pulmonary Edema / Congestive Heart Failure         12/12/2014           M15         Acute Stroke         12/12/2014           M16         Seizure         12/12/2014           M17         Altered Mental Status         12/12/2014           M18         Acute Agitation         12/12/2014		•	
M3         Pulseless Arrest – Asystole / Pulseless Electrical Activity         12/12/2014           M4         Prehospital Resuscitation Cessation         12/12/2014           M5         Wide Complex Tachycardia         12/12/2014           M6         Narrow Complex Tachycardia         12/12/2014           M7         Bradycardia         12/12/2014           M8         Premature Ventricular Contractions         12/12/2014           M9         Hypertension         12/12/2014           M10         Shock / Hypotension         12/12/2014           M11         Respiratory Distress         12/12/2014           M12         Chest Pain         12/12/2014           M13         Hyperkalemia, Suspected         12/12/2014           M14         Pulmonary Edema / Congestive Heart Failure         12/12/2014           M15         Acute Stroke         12/12/2014           M16         Seizure         12/12/2014           M17         Altered Mental Status         12/12/2014           M18         Acute Agitation         12/12/2014           M19         Syncope         12/12/2014           M20         Complaints, Medical         12/12/2014           M21         Hyperglycemia         12/12/2014	Ml	Initial Approach to The Unresponsive Patient – Adult BLS	12/12/2014
M4         Prehospital Resuscitation Cessation         12/12/2014           M5         Wide Complex Tachycardia         12/12/2014           M6         Narrow Complex Tachycardia         12/12/2014           M7         Bradycardia         12/12/2014           M8         Premature Ventricular Contractions         12/12/2014           M9         Hypertension         12/12/2014           M10         Shock / Hypotension         12/12/2014           M11         Respiratory Distress         12/12/2014           M12         Chest Pain         12/12/2014           M13         Hyperkalemia, Suspected         12/12/2014           M14         Pulmonary Edema / Congestive Heart Failure         12/12/2014           M15         Acute Stroke         12/12/2014           M16         Seizure         12/12/2014           M17         Altered Mental Status         12/12/2014           M18         Acute Agitation         12/12/2014           M19         Syncope         12/12/2014           M20         Complaints, Medical         12/12/2014           M21         Hyperglycemia         12/12/2014           M22         Hypoglycemia         12/12/2014           M23         Sickle Cell	M2	Pulseless Arrest - Ventricular Fibrillation / Ventricular Tachycardia	12/12/2014
M6         Wide Complex Tachycardia         12/12/2014           M6         Narrow Complex Tachycardia         12/12/2014           M7         Bradycardia         12/12/2014           M8         Premature Ventricular Contractions         12/12/2014           M9         Hypertension         12/12/2014           M10         Shock / Hypotension         12/12/2014           M11         Respiratory Distress         12/12/2014           M12         Chest Pain         12/12/2014           M13         Hyperkalemia, Suspected         12/12/2014           M14         Pulmonary Edema / Congestive Heart Failure         12/12/2014           M15         Acute Stroke         12/12/2014           M16         Seizure         12/12/2014           M17         Altered Mental Status         12/12/2014           M18         Acute Agitation         12/12/2014           M19         Syncope         12/12/2014           M20         Complaints, Medical         12/12/2014           M21         Hyperglycemia         12/12/2014           M22         Hypoglycemia         12/12/2014           M23         Sickle Cell Disease / Painful Crisis         12/12/2014           M25         Sympathomi	мз	Pulseless Arrest - Asystole / Pulseless Electrical Activity	12/12/2014
M6       Narrow Complex Tachycardia       12/12/2014         M7       Bradycardia       12/12/2014         M8       Premature Ventricular Contractions       12/12/2014         M9       Hypertension       12/12/2014         M10       Shock / Hypotension       12/12/2014         M11       Respiratory Distress       12/12/2014         M12       Chest Pain       12/12/2014         M13       Hyperkalemia, Suspected       12/12/2014         M14       Pulmonary Edema / Congestive Heart Failure       12/12/2014         M15       Acute Stroke       12/12/2014         M16       Seizure       12/12/2014         M17       Altered Mental Status       12/12/2014         M18       Acute Agitation       12/12/2014         M19       Syncope       12/12/2014         M20       Complaints, Medical       12/12/2014         M21       Hyperglycemia       12/12/2014         M22       Hypoglycemia       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M24       General Approach to Drug Overdose / Poisoning       12/12/2014         M25       Sympathomimetic Toxidrome       12/12/2014         M26	M4	Prehospital Resuscitation Cessation	12/12/2014
M7       Bradycardia       12/12/2014         M8       Premature Ventricular Contractions       12/12/2014         M9       Hypertension       12/12/2014         M10       Shock / Hypotension       12/12/2014         M11       Respiratory Distress       12/12/2014         M12       Chest Pain       12/12/2014         M13       Hyperkalemia, Suspected       12/12/2014         M14       Pulmonary Edema / Congestive Heart Failure       12/12/2014         M15       Acute Stroke       12/12/2014         M16       Seizure       12/12/2014         M17       Altered Mental Status       12/12/2014         M18       Acute Agitation       12/12/2014         M19       Syncope       12/12/2014         M20       Complaints, Medical       12/12/2014         M21       Hyperglycemia       12/12/2014         M22       Hypoglycemia       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M24       General Approach to Drug Overdose / Poisoning       12/12/2014         M25       Sympathomimetic Toxidrome       12/12/2014         M26       Opioid Toxidrome       12/12/2014         M27	M5	Wide Complex Tachycardia	12/12/2014
M8       Premature Ventricular Contractions       12/12/2014         M9       Hypertension       12/12/2014         M10       Shock / Hypotension       12/12/2014         M11       Respiratory Distress       12/12/2014         M12       Chest Pain       12/12/2014         M13       Hyperkalemia, Suspected       12/12/2014         M14       Pulmonary Edema / Congestive Heart Failure       12/12/2014         M15       Acute Stroke       12/12/2014         M16       Seizure       12/12/2014         M17       Altered Mental Status       12/12/2014         M18       Acute Agitation       12/12/2014         M19       Syncope       12/12/2014         M20       Complaints, Medical       12/12/2014         M21       Hyperglycemia       12/12/2014         M22       Hypoglycemia       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M24       General Approach to Drug Overdose / Poisoning       12/12/2014         M25       Sympathomimetic Toxidrome       12/12/2014         M26       Opioid Toxidrome       12/12/2014         M27       Cholinergic Toxidrome       12/12/2014         M29	<b>M</b> 6	Narrow Complex Tachycardia	12/12/2014
M9       Hypertension       12/12/2014         M10       Shock / Hypotension       12/12/2014         M11       Respiratory Distress       12/12/2014         M12       Chest Pain       12/12/2014         M13       Hyperkalemia, Suspected       12/12/2014         M14       Pulmonary Edema / Congestive Heart Failure       12/12/2014         M15       Acute Stroke       12/12/2014         M16       Seizure       12/12/2014         M17       Altered Mental Status       12/12/2014         M18       Acute Agitation       12/12/2014         M19       Syncope       12/12/2014         M20       Complaints, Medical       12/12/2014         M21       Hyperglycemia       12/12/2014         M22       Hypoglycemia       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M24       General Approach to Drug Overdose / Poisoning       12/12/2014         M25       Sympathomimetic Toxidrome       12/12/2014         M26       Opioid Toxidrome       12/12/2014         M27       Cholinergic Toxidrome       12/12/2014         M28 </td <td>M7</td> <td>Bradycardia</td> <td>12/12/2014</td>	M7	Bradycardia	12/12/2014
M10       Shock / Hypotension       12/12/2014         M11       Respiratory Distress       12/12/2014         M12       Chest Pain       12/12/2014         M13       Hyperkalemia, Suspected       12/12/2014         M14       Pulmonary Edema / Congestive Heart Failure       12/12/2014         M15       Acute Stroke       12/12/2014         M16       Seizure       12/12/2014         M17       Altered Mental Status       12/12/2014         M18       Acute Agitation       12/12/2014         M19       Syncope       12/12/2014         M20       Complaints, Medical       12/12/2014         M21       Hyperglycemia       12/12/2014         M22       Hypoglycemia       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M24       General Approach to Drug Overdose / Poisoning       12/12/2014         M25       Sympathomimetic Toxidrome       12/12/2014         M26       Opioid Toxidrome       12/12/2014         M27       Cholinergic Toxidrome       12/12/2014         M28       AntiCholinergic Toxidrome       12/12/2014         M29       Allergic Reaction/Anaphylaxis       12/12/2014 <t< td=""><td>M8</td><td>Premature Ventricular Contractions</td><td>12/12/2014</td></t<>	M8	Premature Ventricular Contractions	12/12/2014
M11 Respiratory Distress       12/12/2014         M12 Chest Pain       12/12/2014         M13 Hyperkalemia, Suspected       12/12/2014         M14 Pulmonary Edema / Congestive Heart Failure       12/12/2014         M15 Acute Stroke       12/12/2014         M16 Seizure       12/12/2014         M17 Altered Mental Status       12/12/2014         M18 Acute Agitation       12/12/2014         M19 Syncope       12/12/2014         M20 Complaints, Medical       12/12/2014         M21 Hyperglycemia       12/12/2014         M22 Hypoglycemia       12/12/2014         M23 Sickle Cell Disease / Painful Crisis       12/12/2014         M24 General Approach to Drug Overdose / Poisoning       12/12/2014         M25 Sympathomimetic Toxidrome       12/12/2014         M26 Opioid Toxidrome       12/12/2014         M27 Cholinergic Toxidrome       12/12/2014         M28 AntiCholinergic Toxidrome       12/12/2014         M29 Allergic Reaction/Anaphylaxis       12/12/2014         M31 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	<b>M</b> 9	Hypertension	12/12/2014
M12       Chest Pain       12/12/2014         M13       Hyperkalemia, Suspected       12/12/2014         M14       Pulmonary Edema / Congestive Heart Failure       12/12/2014         M15       Acute Stroke       12/12/2014         M16       Seizure       12/12/2014         M17       Altered Mental Status       12/12/2014         M18       Acute Agitation       12/12/2014         M19       Syncope       12/12/2014         M20       Complaints, Medical       12/12/2014         M21       Hyperglycemia       12/12/2014         M22       Hypoglycemia       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M24       General Approach to Drug Overdose / Poisoning       12/12/2014         M25       Sympathomimetic Toxidrome       12/12/2014         M26       Opioid Toxidrome       12/12/2014         M27       Cholinergic Toxidrome       12/12/2014         M28       AntiCholinergic Toxidrome       12/12/2014         M29       Allergic Reaction/Anaphylaxis       12/12/2014         M30       Hypothermia       12/12/2014         M31       Hyperthermia       12/12/2014	M10	Shock / Hypotension	12/12/2014
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M14       Pulmonary Edema / Congestive Heart Failure       12/12/2014         M15       Acute Stroke       12/12/2014         M16       Seizure       12/12/2014         M17       Altered Mental Status       12/12/2014         M18       Acute Agitation       12/12/2014         M19       Syncope       12/12/2014         M20       Complaints, Medical       12/12/2014         M21       Hyperglycemia       12/12/2014         M22       Hypoglycemia       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M24       General Approach to Drug Overdose / Poisoning       12/12/2014         M25       Sympathomimetic Toxidrome       12/12/2014         M26       Opioid Toxidrome       12/12/2014         M27       Cholinergic Toxidrome       12/12/2014         M28       AntiCholinergic Toxidrome       12/12/2014         M29       Allergic Reaction/Anaphylaxis       12/12/2014         M30       Hypothermia       12/12/2014         M31       Hyperthermia       12/12/2014	M12	Chest Pain	12/12/2014
M15       Acute Stroke       12/12/2014         M16       Seizure       12/12/2014         M17       Altered Mental Status       12/12/2014         M18       Acute Agitation       12/12/2014         M19       Syncope       12/12/2014         M20       Complaints, Medical       12/12/2014         M21       Hyperglycemia       12/12/2014         M22       Hypoglycemia       12/12/2014         M23       Sickle Cell Disease / Painful Crisis       12/12/2014         M24       General Approach to Drug Overdose / Poisoning       12/12/2014         M25       Sympathomimetic Toxidrome       12/12/2014         M26       Opioid Toxidrome       12/12/2014         M27       Cholinergic Toxidrome       12/12/2014         M28       AntiCholinergic Toxidrome       12/12/2014         M29       Allergic Reaction/Anaphylaxis       12/12/2014         M30       Hypothermia       12/12/2014         M31       Hyperthermia       12/12/2014	M13	Hyperkalemia, Suspected	12/12/2014
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M17 Altered Mental Status       12/12/2014         M18 Acute Agitation       12/12/2014         M19 Syncope       12/12/2014         M20 Complaints, Medical       12/12/2014         M21 Hyperglycemia       12/12/2014         M22 Hypoglycemia       12/12/2014         M23 Sickle Cell Disease / Painful Crisis       12/12/2014         M24 General Approach to Drug Overdose / Poisoning       12/12/2014         M25 Sympathomimetic Toxidrome       12/12/2014         M26 Opioid Toxidrome       12/12/2014         M27 Cholinergic Toxidrome       12/12/2014         M28 AntiCholinergic Toxidrome       12/12/2014         M29 Allergic Reaction/Anaphylaxis       12/12/2014         M30 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	M15	Acute Stroke	12/12/2014
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M20 Complaints, Medical       12/12/2014         M21 Hyperglycemia       12/12/2014         M22 Hypoglycemia       12/12/2014         M23 Sickle Cell Disease / Painful Crisis       12/12/2014         M24 General Approach to Drug Overdose / Poisoning       12/12/2014         M25 Sympathomimetic Toxidrome       12/12/2014         M26 Opioid Toxidrome       12/12/2014         M27 Cholinergic Toxidrome       12/12/2014         M28 AntiCholinergic Toxidrome       12/12/2014         M29 Allergic Reaction/Anaphylaxis       12/12/2014         M30 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	M18	Acute Agitation	12/12/2014
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M22 Hypoglycemia       12/12/2014         M23 Sickle Cell Disease / Painful Crisis       12/12/2014         M24 General Approach to Drug Overdose / Poisoning       12/12/2014         M25 Sympathomimetic Toxidrome       12/12/2014         M26 Opioid Toxidrome       12/12/2014         M27 Cholinergic Toxidrome       12/12/2014         M28 AntiCholinergic Toxidrome       12/12/2014         M29 Allergic Reaction/Anaphylaxis       12/12/2014         M30 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	M20	Complaints, Medical	12/12/2014
M23 Sickle Cell Disease / Painful Crisis       12/12/2014         M24 General Approach to Drug Overdose / Poisoning       12/12/2014         M25 Sympathomimetic Toxidrome       12/12/2014         M26 Opioid Toxidrome       12/12/2014         M27 Cholinergic Toxidrome       12/12/2014         M28 AntiCholinergic Toxidrome       12/12/2014         M29 Allergic Reaction/Anaphylaxis       12/12/2014         M30 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	M21	Hyperglycemia	12/12/2014
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M25       Sympathomimetic Toxidrome       12/12/2014         M26       Opioid Toxidrome       12/12/2014         M27       Cholinergic Toxidrome       12/12/2014         M28       AntiCholinergic Toxidrome       12/12/2014         M29       Allergic Reaction/Anaphylaxis       12/12/2014         M30       Hypothermia       12/12/2014         M31       Hyperthermia       12/12/2014	M23	Sickle Cell Disease / Painful Crisis	12/12/2014
M26 Opioid Toxidrome       12/12/2014         M27 Cholinergic Toxidrome       12/12/2014         M28 AntiCholinergic Toxidrome       12/12/2014         M29 Allergic Reaction/Anaphylaxis       12/12/2014         M30 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	M24	General Approach to Drug Overdose / Poisoning	12/12/2014
M27 Cholinergic Toxidrome       12/12/2014         M28 AntiCholinergic Toxidrome       12/12/2014         M29 Allergic Reaction/Anaphylaxis       12/12/2014         M30 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	M25	Sympathomimetic Toxidrome	12/12/2014
M28 AntiCholinergic Toxidrome       12/12/2014         M29 Allergic Reaction/Anaphylaxis       12/12/2014         M30 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	M26	Opioid Toxidrome	12/12/2014
M29 Allergic Reaction/Anaphylaxis       12/12/2014         M30 Hypothermia       12/12/2014         M31 Hyperthermia       12/12/2014	M27	Cholinergic Toxidrome	12/12/2014
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M31 Hyperthermia 12/12/2014	M29	Allergic Reaction/Anaphylaxis	12/12/2014
	M30	Hypothermia	12/12/2014
M32 Return of Spontaneous Circulation (ROSC) 12/12/2014	M31	Hyperthermia	12/12/2014
	M32	Return of Spontaneous Circulation (ROSC)	12/12/2014

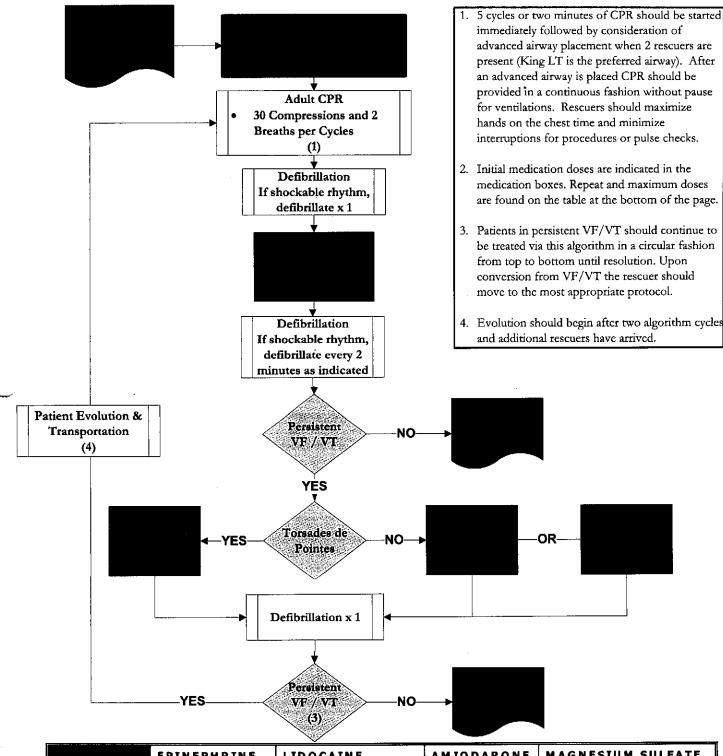
## Clinical Care Guideline – M1 Initial Approach to the Unresponsive Patient – Adult BLS 12/12/2014

- 1. CPR and early defibrillation are priorities in the management of the Sudden Cardiac Arrest (SCA) patient. The airway should initially be managed using an oral pharyngeal airway and BVM at 8-10 ventilations per minute. Advanced airway maneuvers should be deferred until the initial cardiac thythm has been determined and defibrillation provided if needed (V-Fib / V-Tach).
- If it is unclear as to whether or not a pulse is present after a 10 second check – Begin CPR immediately.
- 3. 2 minutes or 5 cycles of CPR is to be provided to all patients with SCA prior to defibrillation unless the cardiac arrest occurs in the presence of EMS providers and a defibrillator is *IMMEDIATELY* available.
- 4. Reasons for unresponsiveness should be addressed after the initial resuscitation as directed by the AHA guidelines.



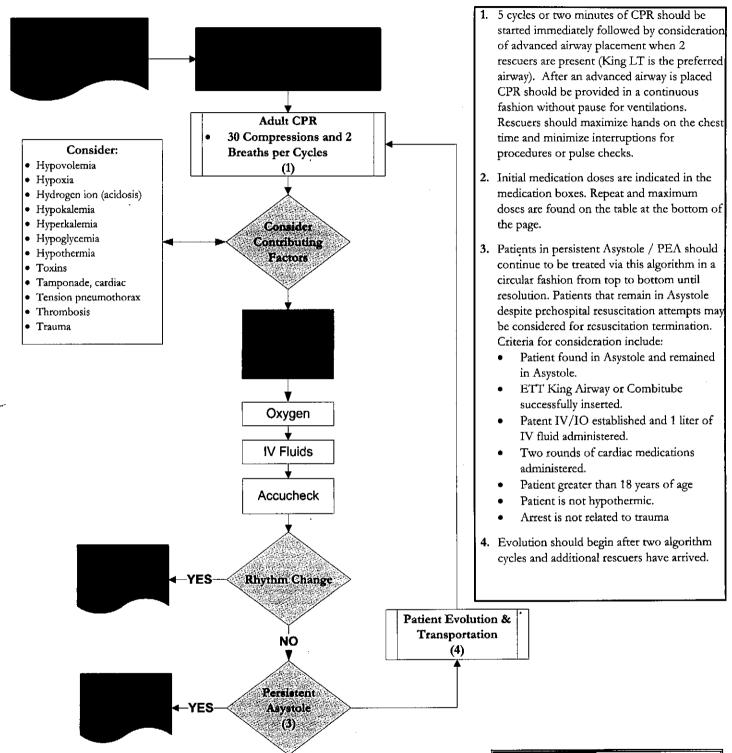
#### Clinical Care Guideline - M2

Pulseless Arrest – Ventricular Fibrillation / Ventricular Tachycardia



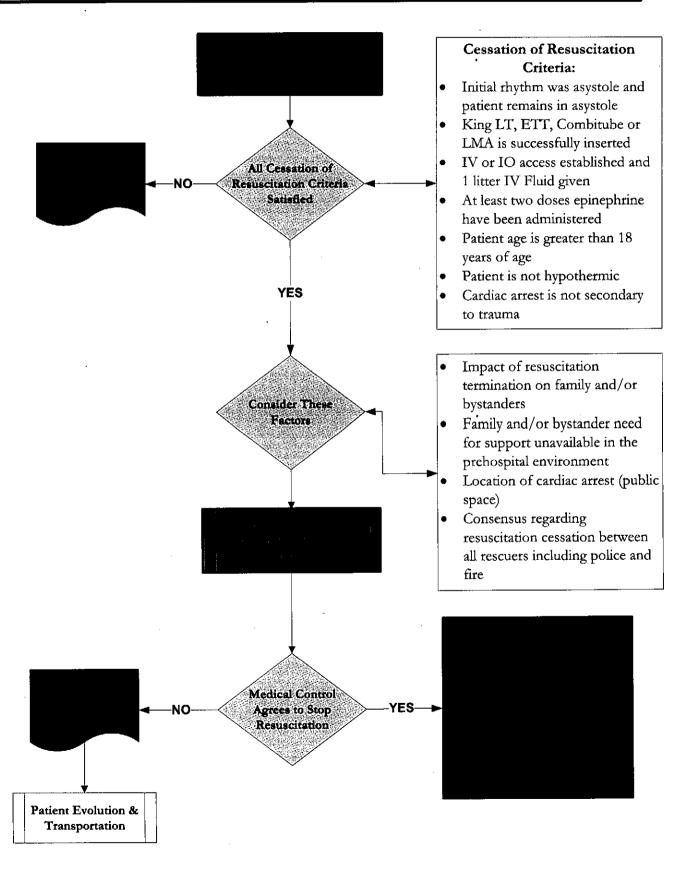
	EPINEPHRINE	LIDOCAINE	AMIODARONE	MAGNESIUM SULFATE
Initial Dose	1 mg IV/IO	1 mg/kg IV/IO	300 mg IV/IO	1 gm IV/IO
Repeat Dose	1 mg IV/IO every 5 minutes while pulseless	0.5 mg/kg IV/IO every 2 minutes until maximum dose	150 mg IV/IO .	1 gm IV/IO after 2 minutes
Maximum Dose	Not Applicable	3 doses or 3 mg/kg	450 mg IV/IO	2 gm IV/IO

## Clinical Care Guideline – M3 Pulseless Arrest – Asystole / Pulseless Electrical Activity 12/12/2014

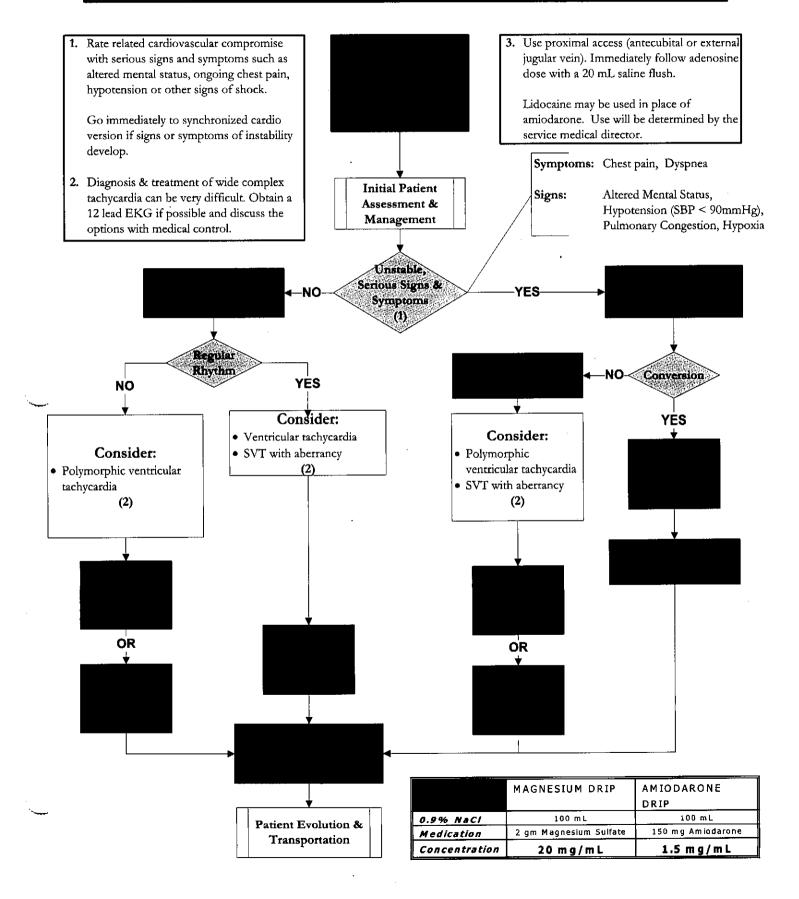


	EPINEPHRINE
Initial Dose	1 mg IV/IO
Repeat Dose	1 mg IV/IO every 5 minutes while pulseless
Maximum	Not Applicable
Dose	1

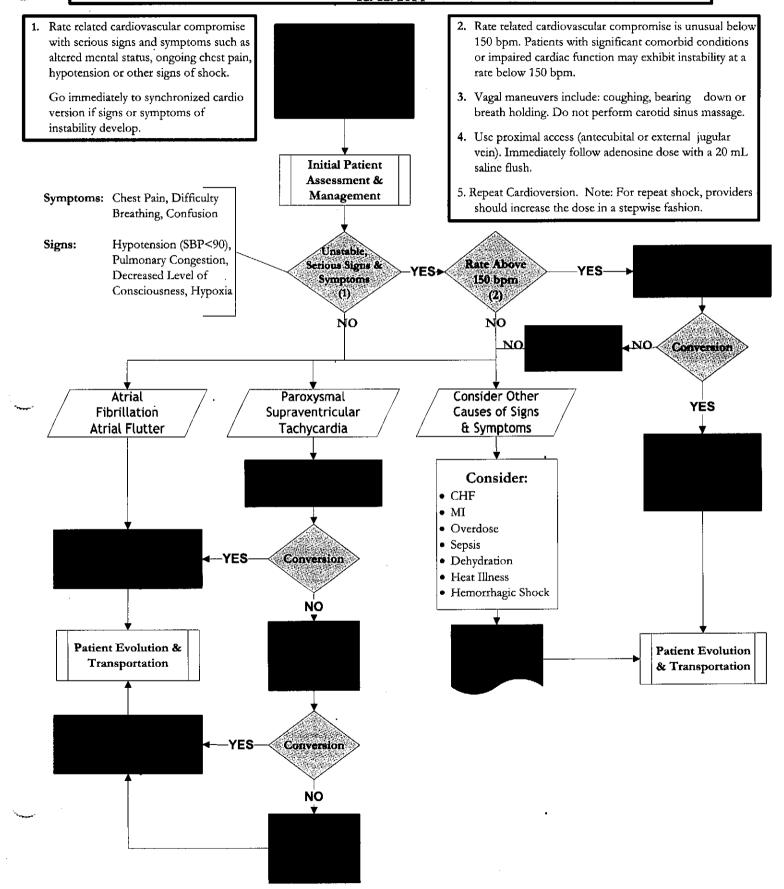
## Clinical Care Guideline - M4 Prehospital Resuscitation Cessation 12/12/2014



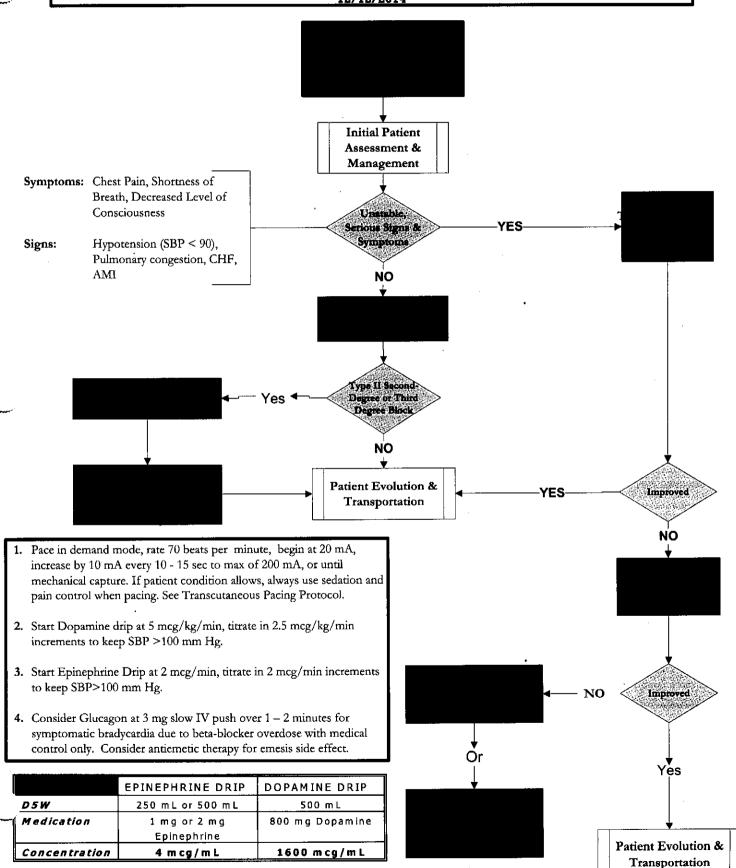
#### Clinical Care Guideline – M5 Wide Complex Tachycardia 12/12/2014



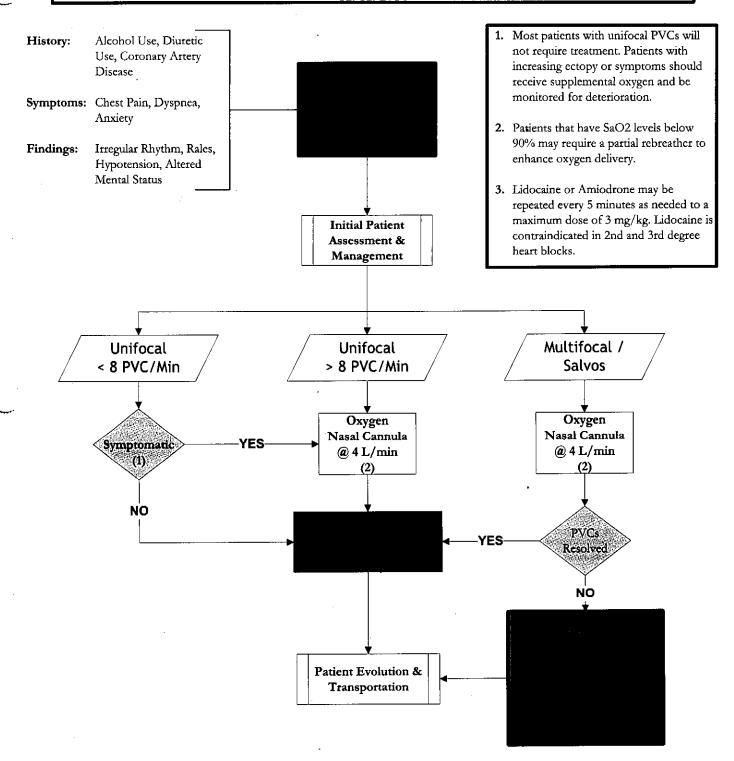
#### Clinical Care Guideline – M6 Narrow Complex Tachycardia 12/12/2014



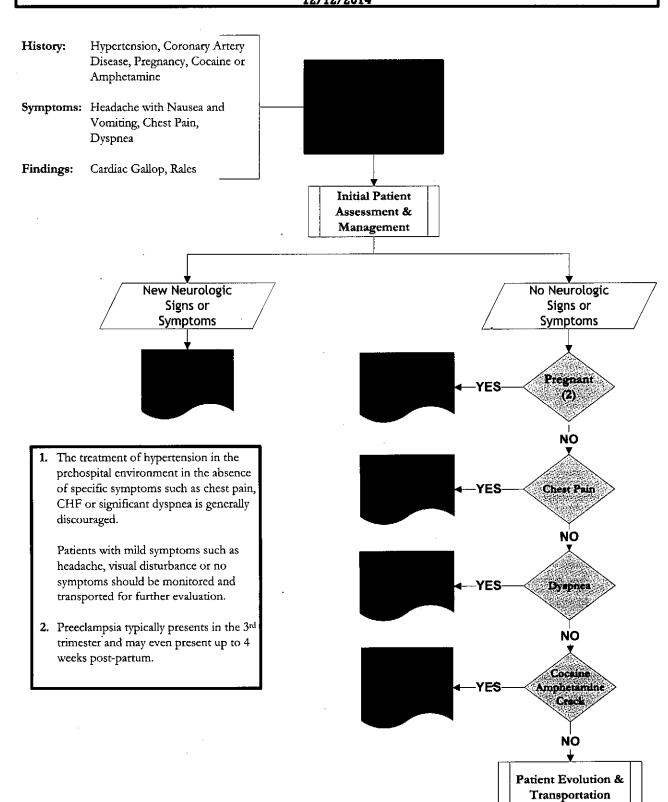
## Clinical Care Guideline – M7 Bradycardia 12/12/2014



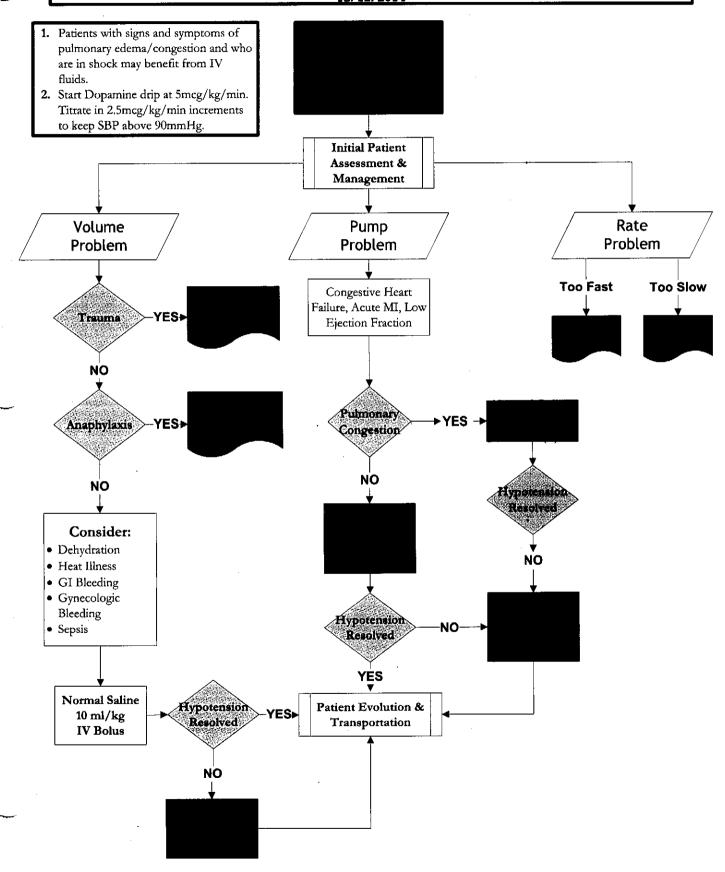
## Clinical Care Guideline – M8 Premature Ventricular Contractions 12/12/2014



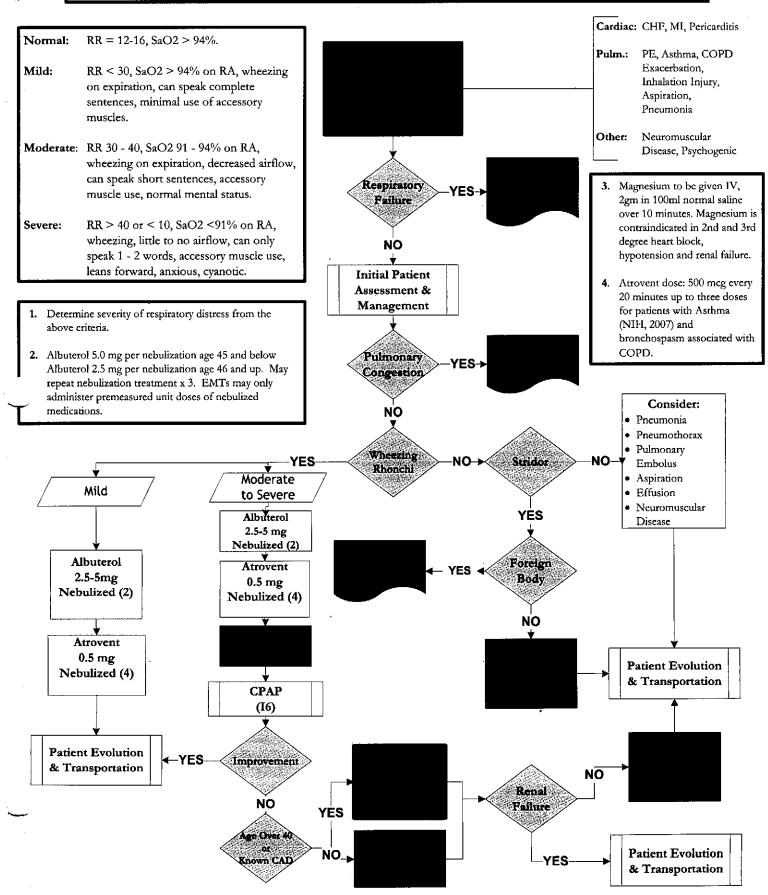
## Clinical Care Guideline – M9 Hypertension 12/12/2014



#### Clinical Care Guidelines - M10 Shock / Hypotension 12/12/2014



## Clinical Care Guidelines – M11 Respiratory Distress 12/12/2014



#### Clinical Care Guideline – M12 Chest Pain 12/12/2014

History: Asthma, Emphysema, COPD,

Pneumonia, Renal Failure, Upper Respiratory Infection

Symptoms: Cough, Fever, Chills

Findings: Wheezes, Rhonchi, Fever,

Chest Wall Tenderness

History: Coronary Artery Disease,

Hypertension, Crack / Cocaine Use, Tobacco Abuse, Diabetes

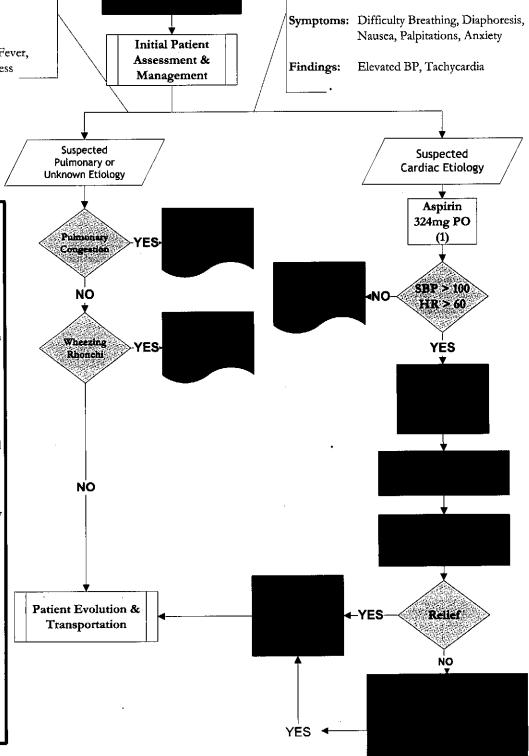
Mellitus, Age over 30

 Assess for aspirin allergy prior to administration. When administered have patient chew and swallow aspirin.

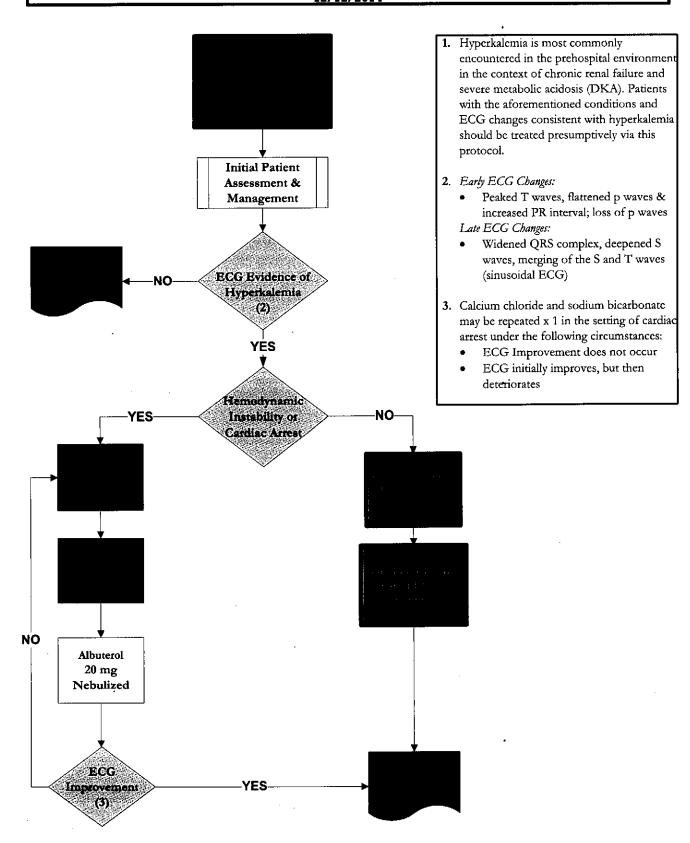
## Avoid Nitro in any patient on Viagra, Cialis or Levitra.

Reassess BP after each administration – hold nitroglycerin if SBP falls below 100mmHg and/or heart rate below 60.

- Do not apply Nitroglycerin
   Ointment if SBP is below
   100mmHg and/or heart rate
   below 60. Remove from chest wall
   if SBP falls below 90.
- 4. With inferior MI's, nitroglycerin may drop the SBP precipitously. In this case, it would be preferable to have IV fluid running and treating CP with morphine or Fentanyl. Use nitro with caution in IMI patients.
- 5. If there is evidence of cocaine use precipitating the patient's chest pain, refer to M-25 sympathomimetic toxidrome (chest pain precipitated by cocaine use may benefit from benzodiazepine therapy)
- 6. Morphine or Fentanyl is to be administered IV to patients
  without history of allergy and SBP > 90 mm/hg.



## Clinical Care Guideline – M13 Hyperkalemia 12/12/2014



## Clinical Care Guideline – M14 Pulmonary Edema / Congestive Heart Failure

12/12/2014

History: CHF, Hypertension, Renal Dialysis,

Coronary Artery Disease, Heroin Abuse

Symptoms: Difficulty Breathing, Diaphoresis, Chest

Pain, Anxiety, Agitation, Altered Mental

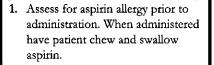
Status

Findings: Decreased Oxygen Saturation, Bilateral

Rales, Jugular Vein Distension,

Cyanosis, Tachycardia, Erect Posture,

Pedal edema



- Mask continuous positive airway pressure is to be considered when significant respiratory distress is present and the patient meets the criteria as defined in the specific protocol for CPAP use (I6).
- Avoid Nitro in any patient on Viagra, Cialis or Levitra. Reassess BP after each administration – hold nitroglycerin if SBP falls below 90mmHg.
- 4. Do not apply Nitroglycerin Ointment if SBP is below 90mmHg. Remove from Chest Wall if SBP falls below 90.

Patient Evolution &

Transportation

