BUCKS COUNTY EMERGENCY MEDICAL SERVICES



Regional Treatment &

&
Transfer Protocols
April 1, 2012



TABLE OF CONTENTS

SEC	CTION I - GENERAL INFORMATION	
	Forward	
	<u>Definitions</u>	
	Patient Assessment.	<u>7</u>
SEC	CTION II - SPECIFIC SKILL PROCEDURES	
	Nasotracheal Intubation.	9
	Sedation Assisted Intubation.	
	Needle Cricothyrotomy	
	Termination of Resuscitation	12
SEC	CTION III - EMS SYSTEM	
	Regional Lights and Sirens.	1.4
	Medications.	
	Bucks County Regional Drug List.	
	Controlled Substances.	
	Air Ambulance Service Request	
	Hospital Status & Diversion.	
	Designation of Transport Vehicle.	
	Communication Failure.	
	Transportation of Bariatric Patients	
	Commitment for Medical/Psychiatric Evaluation	
	Medical Command Refusals	
CE/	CTION IV - INTERFACILTIY TRANSPORT	23
.SE		27
	General Information.	21
	Amiodarone (Cordarone)	
	Diltiazem	
	Dobutamine	
	Dopamine	
	Glycoprotein IIb/IIIa Inhibitors	
	Heparin	
	Lidocaine	
	Magnesium Sulfate Nitroglycerin	
A		39
App	pendix	
	Medical Command Facilities.	
	Medical Command Facility Assignments.	43
	Changes and Additions	1/



SECTION I

GENERAL INFORMATION



FOREWORD

This manual is intended as guidance for emergency care personnel (BLS and ALS) and Medical Command physicians functioning within the Bucks County EMS System. It also gives structure and consistency through out the Bucks County EMS Systems.

These procedures are based on the premise that patient care begins with a full BLS assessment and then BLS treatment as outlined in the Pennsylvania Statewide BLS Protocols. Then an ALS assessment and then ALS treatment if indicated as outlined in the Statewide ALS Protocols.

This manual was approved by the Bucks County Medical Advisory Committee and the Pennsylvania Department of Health Bureau of EMS.



DEFINITIONS

Active Command Status: EMT-Paramedics or PHRN who has received authorization to practice as an ALS provider for an ALS service

ALS - Advanced Life Support: The advanced prehospital and interhospital emergency medical care of serious illness or injury by appropriately trained health professionals and by certified EMT-paramedics.

ALS Responder Unit: A vehicle, which carries ALS personnel and ALS equipment, but is not capable of patient transport. Usually used to assist BLS units on ALS calls.

Ambulance Attendant: An individual who holds a valid certificate evidencing the successful completion of a course in First Response sponsored by the American Red Cross, and a valid certificate evidencing the successful completion of a course in CPR sponsored by the American Heart Association or the American Red Cross, or an individual who can evidence the successful completion of an equivalent training program approved by the DOH.

Ambulance Service Medical Director: A physician licensed in the Commonwealth of Pennsylvania and approved by the Pennsylvania Department of Health, who is employed by, or contracts with, a licensed ambulance service and is responsible for providing medical guidance and advice and evaluating the quality of patient care provided by the ambulance personnel.

BLS services - Basic Life Support services: The prehospital or interhospital emergency medical care and management of illness or injury performed by specially trained and certified or licensed personnel.

BCEMS - Bucks County Emergency Medical Services

Emergency Care Personnel: An ambulance attendant, First Responder, EMT, EMT-Paramedic, or Health Professional.

EMT- Emergency Medical Technician: An individual trained to provide prehospital emergency medical treatment and certified as such by the Department in accordance with the current National Standard Curriculum for basic EMT's.

EMT-Paramedic - Emergency Medical Technician-Paramedic: An individual who is trained to provide prehospital emergency medical treatment at an advanced level and certified as such by the Department of Health under the current National Standard Curriculum for EMT-Paramedics.

First Responder: An individual who holds current CPR certification plus a valid certificate of successful completion of a training program that conforms to the National Standard Curriculum ap-



proved by the Department of Health.

Health Professional: A licensed physician or professional registered nurse who has education &

continuing education in ALS & prehospital care, and is certified by the Commonwealth as such.

Inactive Status: EMT Paramedics who do not have medical command with a service.

Intubation Attempt: The insertion of a laryngoscope with the intent to intubate the patient.

Medical command: An order given to personnel of EMS by an authorized medical command physician who meets qualifications prescribed by the Department of Health.

Medical command physician: A physician licensed by the Commonwealth of Pennsylvania who meets the criteria set forth by the Department of Health for medical command physician and who is approved by the regional EMS council medical director to provide medical command to prehospital and inter-hospital personnel.

MICU - Mobile Intensive Care Unit: An ambulance, which carries ALS personnel & equipment, and is capable of patient transport.

OIC - Officer-In-Charge: The officer in charge of all functions of a particular service (i.e., EMS, fire), usually the highest-ranking officer of the primary responding station or unit. The highest level of medically trained EMS Personnel is responsible for all aspects of patient care.

Patient Contact: Prehospital provider who was responsible for the care of a patient on scene and

transport to tertiary care facility and transfer of care to the tertiary care facility or EMS agency.

Restricted Command: EMT-Paramedics are assigned restricted command by their ALS Service Director. This means they have additional requirements to operate as an ALS provider.



Trauma Center: A facility accredited as such by the Pennsylvania Trauma Systems Foundation.

PATIENT CONTACT

Follow Statewide BLS Protocol 201

Consent shall be obtained from the patient and documented on the Pennsylvania Emergency Medical Services Patient Care Report prior to initiation of evaluation and management whenever possible. However, the emergency exception to the requirement for consent is implied for all patients, regardless of age, in whom consciousness or competency is impaired. Thus, patients whose consciousness or competency is impaired cannot refuse treatment.

Upon arrival at the scene of a sick or injured person, an initial, focused, and ongoing assessment shall



SECTION III

Specific Skill Procedures



NASOTRACHEAL INTUBATION

INDICATIONS:

Nasotracheal intubation is indicated for hypoventilation and for airway protection in the patient with depressed mental status. It can be used where endotracheal intubation is contraindicated due to C-spine injuries. The patient must be breathing.

CONTRAINDICATIONS:

Nasotracheal intubation is contraindicated in the patient who is too combative to allow the procedure to be completed, and in the patient who is not breathing.

PRECAUTIONS:

The endotracheal balloon must be functioning and should be pretested.

Do not move the C-spine if injury is suspected.

Confirmation of proper placement. See Statewide ALS Protocol #2032

PROCEDURE:

As Instructed.

COMPLICATIONS:

- 1. Epistaxis.
- 2. The tube may be placed in the esophagus or into the right mainstem bronchus, providing inadequate ventilation.

BUCKS COUNTY EMERGENCY MEDICAL SERVICES



Regional Treatment & Transfer Protocols

Sedation Assisted Intubation Regional Requirements

Services Requirements:

- 1. ALS Service Medical Director must submit a letter of interest to the Regional Medical Advisory Committee for their service to participate in the pre-credentialing process.
- 2. After approval to participate in the pre-credentialing process from Regional Medical Advisory Committee. Service must meet the following requirements for a period of six months prior to Etomidate placed on the ambulance on every intubated patient.
 - EKG strips attached to every patient care report. (Documenting continuous monitoring)
 - Wave-form ETCO₂ Strips attach (Documenting continuous monitoring)
 - Complete an regional airway management checklist
 - Mandatory review of every chart where intubation was performed or attempted by the service QA committee and ALS Service Medical Director.
 - Copy of patient care report with strips attached sent to regional office for QI review for every intubation performed or attempted. Documented training as outlined in Statewide ALS Protocol #4002
 - 1. Service medical director must personally assure training and continuing education in patient selection, endotracheal intubation, use of alternative/ rescue airway device, use of wave-form ETCO₂ monitoring, and use of this protocol.
 - 2. Service medical director must assure initial and ongoing competence (including supervised sedation-assisted intubation) for each individual EMS practitioner who will use sedation assisted intubation. Only individuals credentialed for this procedure will perform the procedure. Medical directors should strongly consider requirements for regular supervised operating room intubations (if it is possible to arrange for such experience) and should consider the use of high fidelity simulation as a component of assuring competence.

Credentialing Process

- a) Letter from regional office to regional medical advisory committee verifying service meets equipment and QI requirements.
- b) ALS Service Medical Director must attend Regional MAC meeting to request approval to proceed.
 - •ALS Service Medical Director must provide documentation of how compliance as outlined in Statewide ALS Protocol 4002 will be initiated and maintained after credentialing by RMAC
- e) Regional MAC may approve or deny with just cause.
- d) If approved, ALS service may now place Etomidate on their unit and credentialed ALS providers may follow Statewide ALS protocol 4002.
- e) If denied, regional MAC will provide written documentation of deficiencies and recommendations for improve -ment and resubmission.
- 4. ALS Service is responsible for purchasing Etomidate.
- 5. ALS Service must maintain the list credentialed providers and update this list quarterly to the regional EMS office.

Notes:

1. **Two ALS Practitioners-** Two credentialed providers must be providing care while the procedure is performed. At least one credentialed provider must continue care during transport to hospital.

Implemented 04/15/2007



NEEDLE CRICOTHYROIDOTOMY

INDICATIONS:

- 1. Pediatric and adult medical cases:
 - a. Respiratory arrest or severe respiratory distress, especially in the setting of upper airway obstruction due to foreign body or infection, and;
 - b. Inability to ventilate by mask or intubate trachea.

2. Trauma:

- a. Advanced airway is required due to:
 - 1. Respiratory arrest, or;
 - 2. Inability to maintain airway due to face, neck, or chest trauma, or;
 - 3. Respiratory insufficiency, and;
- b. Inability to ventilate by mask or intubate trachea whether due to obstruction of airway, distortion of area, or inability to extend neck in cases of suspected C-spine injury.

PROCEDURE:

- 1. Palpate the cricothyroid membrane, in midline just below the thyroid cartilage and above the cricoid cartilage.
- 2. Prep the area.
- 3. Insert a 14-gauge catheter midline directed at a 45-degree angle towards the navel, while aspirating the syringe.
- 4. When trachea is entered, air will be aspirated easily.
- 5. Attach the appropriate adapter and ventilate using the approved high flow set-up.
- 6. Assess for adequacy of ventilation. Listen for breath sounds and observe for chest expansion.
- 7. Despite proper technique, ventilation may still be inadequate, especially in an adult. Patient will require advanced airway (cricothyrotomy with ET, endotracheal intubation, tracheostomy) ASAP.

COMPLICATIONS:

- 1. Bleeding.
- 2. Perforation of the esophagus or perforation through the trachea.
- 3. Local cellulitis or hematoma.
- 4. Subcutaneous or mediastinal emphysema.

Commercial Cricothyroidotomy Kits

Services may use commercial cricothyroidotomy kits such as Melker kit or Nu-trake. Services are responsible for training and assuring their providers are competent with equipment. Services must also have a written procedure for the equipment.

Implemented 04/15/2007



Termination of Resuscitation

Bucks County has adopted the Statewide ALS Protocol Guideline # 3091 "Termination of Resuscitation" as their regional treatment protocol for situations when providers may consider field termination of resuscitation.



SECTION III

EMS SYSTEM



Regional Lights and Siren

<u>Procedure</u>: An EMS vehicle may use emergency lights and audible warning devices in accordance with standards imposed by the Pennsylvania Vehicle Code (Title 75) when transporting a patient - or responding to the scene involving a patient - who presents or is perceived in good faith to be exhibiting signs, symptoms or circumstances indicating the need for immediate medical intervention.

Responding providers should review the dispatch type, as well as additional information that may be available from the incident history, mobile data terminal (MDT) or dispatcher, to determine appropriate mode of response to a scene.

A responding unit should travel without lights or sirens activated for EMS complaint types beginning with "B," designating a Basic Life Support level of care (re: County of Bucks, Department of Communications, Policies and Procedures, EMS Manual) as well as responses to medical alarms "MALRM" and special assignments "ESPEC" when there is no information provided indicating that a person has an immediate danger to life, limb or health. Response mode may be altered at any time based upon additional information that is received from the dispatch center while the EMS vehicle is en route to the scene.

Other situations may require the use of emergency lights and sirens, including, but not limited to:

- Motor vehicle accidents on a roadway, local highway or interstate highway;
- Report of multiple patients;
- Report of a confirmed fire;
- Traffic conditions that could cause significant delays (> 15 minutes) in EMS arrival;
- Response or transport in inclement weather;
- Situations in which the practitioner with highest level of certification on the apparatus, believes that emergency response is necessary.

A transporting unit should travel to the hospital with lights and sirens activated only when the EMS practitioner with the highest level of certification (or, if equally-certified, the EMS practitioner who is providing direct patient care) believes that the patient's condition will be worsened by a delay equivalent to the time that can be gained by emergent transport.

The mode of response or travel, being emergent (lights and sirens) or non-emergent (no lights or sirens), should be accurately reflected in the patient care report, as should a clear explanation for any deviation from this procedure.



Prehospital Medication

Medication Exchange:

Bucks County hospitals will replace medications administered to patients transported to their emergency departments and patients who were treated and released from the scene. The hospitals are only expected to replace medications listed on the regional required medication list.

EMS agencies are responsible for monitoring expiration dates, proper storage and security of medications. When medications are thirty days from their expiration date the agency will schedule a date and time with the pharmacy to replace expired medication(s).

Medication Shortage:

If a required medication should become temporarily unavailable the regional medical director has the authority to temporarily approve not require the medication and/or require a substitute medication from the state approved medication list for a designated time period, but not longer than six months.



Regional Required Medication List

Medication	Par Quantity	
Albuterol 2.5mg/3ml	2	
Adenocard 18mg total	1	
Asprin 81mg (chewable tablets)	4	
Atropine 1mg/10ml	2	
Calcium Chloride 10% 10ml	1	
Cordarone 150mg	3	
Dextrose 25g (10%-50%)	2	
Diphenhydramine 50mg/ml	2	
Dopamine 400mg/250ml	1	
Epinephrine 1:10000 1mg/10ml	8	
Epinephrine 1:1000 1mg/ml	2	
Etomidate 40mg ¹ (Optional)	0	
Glucagon 1mg	2	
Ipratropium Bromide 0.5mg/2.5	2	
Lidocaine 100mg/5ml	2	
Magnesium Sulfate 1g/2ml	4	
Methylprednisone 125mg ²	1	
Naloxone 2mg/2ml	4	
Ondansetron 4mg/2ml	2	
Nitroglycerin 0.4mg ³	10	
Sodium Bicarbonate 50meq/50ml	2	

Agencies must carry a minimum one analgesic and one Sedative medication

Controlled Substances	Par Quanity
Morphine ⁴	16mg
Fentanyl⁴	100mcg
Diazepam⁴	10mg
Lorazepam ⁴	4mg
Midazolam ⁴	10mg

Note:

- 1. Must be approved by Regional MAC
- 2. Maybe substituted with Dexamethasone 10mg
- 3. Must have 10 tablets or the ability to administer 10 sprays
- 4. Optional Medications & Controlled substances Agencies are responsible for these medications and not part of the medication exchange program..

Updated April 1, 2012 16



CONTROLLED SUBSTANCES

The following procedure will be strictly adhered to in the handling and record keeping of medications classified as controlled substances by the DEA.

- 1. The ALS practitioner receiving the controlled medications for the squad will be expected to produce a picture identification, current ALS practitioner certification card and current squad membership card (or authorizing letter) for positive proof of identification (when requested).
- 2. The paramedic will obtain the controlled medications from the hospital receiving the patient. A script from the receiving physician or medical command physician shall be obtained, noting any wasted narcotic as well as the amount administered. If the receiving or medical command physician does not provide you with a script or care has been transfer it will be the responsibility of the ALS Agency Medical Director to write the script.
- 3. Controlled medications must be stored in a double-locked system. Typically this involves a locked box within a locked drug cabinet. Systems other than a separately locked box within the cabinet may be employed as long as double-locked security is maintained and approved by the Regional EMS office. The agency must maintain a record of who has access to controlled substances. It is strongly recommended agencies limit the access to controlled substances such as limiting the number of keys to these locks.

Agencies who choose to use electronic medication security system such as a "Med Vault" do not have to use the "double lock" system as long the electronic system meets the following criteria:

- System tracks who accessed device (date/time)
- All personnel have non-identifiable pass code (i.e. no certification numbers, employees numbers, etc).
- Ability to download reports which system activity (i.e. time vault open/closed, person, vehicle, etc)
- 4. The ALS practitioner will inventory controlled substances at the beginning and end of their shift. Practitioners who work shifts longer than twelve hours must do an inventory every twelve hours. This form will be kept on file at the agency, available for inspection at request of the supplying hospital, the DEA or the County/Council office. These inventory records will be kept for a period of two years.
- 5. Upon discovery of any lost/missing narcotics the agency must notify the regional ems office and complete a DEA 106 form.



Air Ambulance Service Request

Definitions

<u>Standby</u> is the notification to the Air Medical service that a potential condition exists which may require the services of their helicopter.

<u>Activation</u> is the request for a helicopter to proceed to the emergency scene (or appropriate location).

When a police or fire officer requests activation of the helicopter service, the dispatcher will place a helicopter on standby and notify the incoming ALS unit that a helicopter was placed on standby and provide a brief report. If ALS is not available the helicopter should be launched.

EMS officers may activate the helicopter service. The dispatcher will notify the incoming EMS unit.

The ultimate authority to decide on to fly or not fly; is that of the first arriving, ALS unit, or if none, the arriving BLS crew member with the highest level of training.

Responsibility for Coordination of Landing

The responsibility for the preparation of a landing site and coordination of the landing procedure will be that of the officer in charge of the fire service. The dispatcher will determine the radio frequency.



HOSPITAL STATUS AND DIVERSION

The following terms will be used to describe hospital bed status.

- 1. **Normal Status** indicates hospital is able to receive EMS patients.
- 2. **Divert Status** indicates the resources at the Department of Emergency Medicine are temporarily and completely involved with patients. Diversion of medical patients should be considered if practical.
- 3. **Trauma By-Pass** indicates the resources at a trauma center are temporarily and completely involved with trauma patients presently in the Emergency Department. Diversion of trauma patients to another trauma center should be considered if practical.
- 4. **Medical Command Divert** Facility is not available for medical command. Must contact another Medical Command facility
- 5. Any hospital reporting their bed status as set forth in "1" through "3" above must reconfirm that status to the Communications Department at least every 2 hours. Those hospitals not reconfirming their status within the prescribed time will have their status automatically changed back to fully operational

Diversion Criteria

- 1. No class I patients are to be diverted regardless of bed status. Such patients require stabilization prior to any diversion.
- 2. Class II and III patients may be considered for diversion. If all hospitals in a reasonable proximity are on divert status for a given type of patient (i.e. cardiac), an EMT or paramedic may take a class II patient (potentially unstable) to the nearest hospital for further stabilization regardless of bed status. Hospitals must respect the judgment of the EMT or Paramedic in such circumstances.
- 3. Trauma centers are never closed to trauma regardless of bed status, though the Emergency Department may be on temporary "trauma by-pass" status when fully involved with current trauma cases.



DESIGNATION OF TRANSPORT VEHICLE

On an ALS call, the Paramedic/Health Professional has the ultimate choice of transport vehicle if both ALS and BLS transporting units are on the scene.

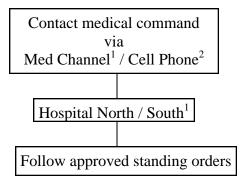


Communication Failure

In the event of communication failure between prehospital providers and medical command facility should a provider need medical command advice.

Providers should only provide treatment within the approved standing orders.

All units will have Med channel & Hospital North / South capabilities



- 1. As signed by Bucks County Communications Center
- 2. Optional form of communication. Maybe used as primary or secondary communication for medical command purposes. Must use approved medical command phone line.



Transportation of Bariatric Patients

(Guideline)

This "Guideline" maybe adopted by any Emergency Medical Service licensed within the Bucks County Region. Services that choose not to adopt this "Guideline" must have alternative process within their service to meet the goal of this guideline.

GOAL: Provide safe emergency transportation for patients that exceed the weight and/or width of conventional ambulance stretchers who are in need of emergency care and make every attempt to maintain the patient's dignity.

Prevent provider injury while treating and transporting this patient population.

Criteria:

Patient who weighs 400 pounds or more.

Patient who are wider than 26 inches.

Exclusions Criteria:

Patient who are not in need of emergency transport to a local emergency department.

Procedure:

Request a Bariatric Support Unit via Bucks County Communications Center. Also request assistance from Fire Department for lift assistance and/or extrication if needed.

Provide patient care as outlined in state and regional protocols until the arrival of the bariatric support unit.

Bariatric support unit will provide bariatric transportation and specialized bariatric patient transfer equipment.

The bariatric support unit will have a minimum of one provider who trained on the use of bariatric equipment.

The service providers who request the bariatric support unit will continue care during transport to the receiving facility.

Implemented 04/01/2009 22

38

BUCKS COUNTY EMERGENCY MEDICAL SERVICES

Medical Command Physician Authorized Commitment for Medical / Psychiatric Evaluation

Purpose:

Some patients EMS contacts will present a clear and present danger to themselves or others but will not accept transport to the hospital. This may include patients with acute intoxication, trauma, or mental health conditions. While certain authorized personnel can initiate a warrant-less 302, EMS practitioners are not included as one of these groups. When an EMS provider, in direct consultation with a Commonwealth of Pennsylvania Medical Command Physician, determines that a patient represents a clear and present danger to themselves or others, the following procedure will be initiated.

Criteria:

- **A.** Patient presents a clear and present danger to themselves or others, but will not accept transport to the hospital.
 - 1. Acute intoxication, trauma, or mental health conditions.
- **B**. An authorized person who can initiate a warrantless 302; disagrees with EMS practitioners assessment.

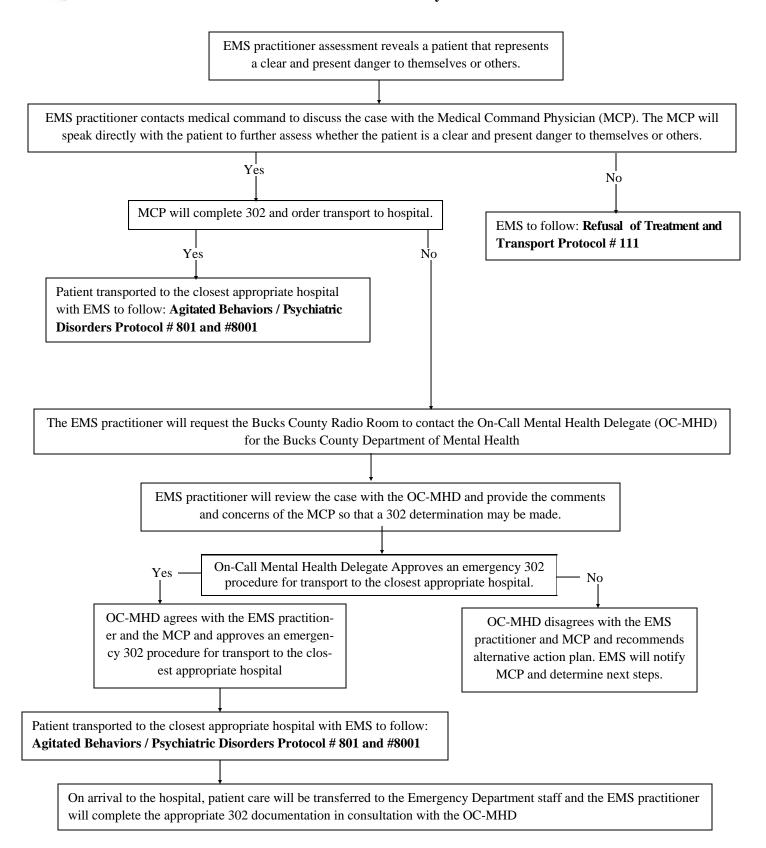
Exclusion Criteria:

- **A**. Patients who are willing to go to the hospital.
- **B.** Patients who are unwilling to go to the hospital, <u>but</u> police initiate a warrant-less 302 and patient is taken to hospital for evaluation.



BUCKS COUNTY EMERGENCY MEDICAL SERVICES

Medical Command Physician Authorized Commitment for Medical / Psychiatric Evaluation





Medical Command Refusals

Goal: Prevent individual hospitals from becoming overwhelmed with large volumes medical command contacts for patients who do not want care and/or transportation by EMS.

Criteria:

1. Meets statewide protocol 111 and requires medical contact.

Procedure:

1. Providers will contact their service's assigned medical command facility for refusals. See Appendix 1



SECTION IV

Inter-facility Transfers



Inter-Facility Transfers (Hospital to Hospital)

This protocol establishes standards for advanced life support services that provide advance life support (ALS) inter-facility care and transportation (from a hospital to another hospital or extended care facility). During these patient transfers which out-of- facility ALS treatment is necessary or should be anticipated. This protocol does not apply to patient care provided by non-EMS facility personnel who accompany the patient during transfer, except where the protocol expressly mentions such personnel. When the sending facility provides a nurse for the transfer, patient care provided by that nurse will be regulated by The Professional Nursing Law and regulations of the State Board of Nursing. This nurse's scope of practice will be defined by the aforementioned statute and regulations, any limitations on that scope of practice imposed by the sending facility, and the orders of the sending physician, as regulated by The Professional Nursing Law and the relevant medical practice act, and regulations under those acts. The medical command physician has primary responsibility for patient care during the inter-facility transport and may give orders to a facility nurse while the nurse is accompanying the patient during the transport.

Prior to inter-facility transfer:

The sending facility must secure an accepting facility and accepting physician. Under the Emergency Medical Treatment and Active Labor Act (EMTALA), it is the responsibility of the sending facility to assure that appropriately trained personnel and equipment are available to ensure an appropriate patient transfer. The ambulance crew must secure from the sending facility a patient report and pertinent medical records (including radiographs) for the patient before transferring the patient, including:

- a) Complete medical history (past and present)
- b) Current treatment underway
- c) Medications being administered (concentrations, dose, rates of administration)

The prehospital personnel staffing the ambulance may not treat the patient with any medications that are not included on the drug list in the regional medical treatment protocols, and each treatment and skill provided by a prehospital practitioner must be within the practitioner's scope of practice, as regulated by the EMS Act and regulations adopted under that act. Additionally, the prehospital practitioner must be trained in the administration of any medication administered, and the ambulance must be equipped with the equipment necessary to provide the patient care ordered, as well as the patient care that should be anticipated during the transport. The prehospital personnel staffing the ambulance may follow the written orders of the sending physician if the orders are consistent with the regional medical treatment protocols. The concentrations and rates of infusions must fall within the permitted range, as outlined in the regional medical treatment protocols, unless a medical command physician is contacted and approves orders from the sending physician permitting concentrations and rates of infusion that are not permitted by the regional medical treatment protocols. If the patient is to receive medications or IV fluids outside the scope of practice of prehospital practitioners who are staffing the ambulance, the transferring hospital must provide adequately trained staff to accompany the patient.

Implemented 04/15/2007 27



A medical command physician must be contacted before the ambulance leaves the sending facility if any of the following conditions apply:

- 1) Patient is hypotensive at time of transfer (systolic BP < 90).
- 2) Medications ordered are outside of the concentrations or infusion rates that are permitted by regional medical treatment protocols.
- 3) Patient is receiving more than one medication infusion (excluding intravenous crystalloid or standard Heparin and Nitro combination) by regional treatment protocol.
- 4) The prehospital practitioner has any concern that the practitioner's experience or ability, or the available equipment, may not meet the patient's anticipated needs during the transport.

The crew of the ambulance must consider the continuous availability of medical command during the transfer before it leaves the sending facility. The ambulance service must make arrangements for continuing medical command, with a second medical command physician if necessary, if the patient is being transferred out of the normal service area.

During the transfer:

If a patient's condition deteriorates or the need for medical command arises, the ambulance crew of the ambulance must attempt to contact medical command. When contacting medical command, the prehospital practitioner shall begin the report by advising the physician that this is an inter-facility transfer. The practitioner shall identify the transferring and receiving facilities and then proceed with the standard patient report. In general, it is best to contact the initial medical command physician, if available, if additional medical command is required during the transfer.

If a facility staff member is accompanying the patient, the prehospital practitioner who contacts the medical command physician shall advise the physician of the facility staff person's presence and level of training (i.e. physician, CCU RN, OB RN, CRT, etc.). The facility staff person should have the availability to communicate with the medical command physician also.

If, during the transport, medical command cannot be contacted due to communication problems, the ambulance crew shall follow the most appropriate regional medical treatment protocol and continue attempts to contact medical command. If contact cannot be made with the medical command physician, the ambulance crew may also contact another medical command facility for direction. When medical command cannot be reached, the ambulance crew shall consider the need to divert to a closer receiving facility if available and appropriate. At the first contact with medical command, the crew shall advise of what was done while communications were disrupted. The crew shall document the circumstances surrounding the communication problem, the care provided, what justified the care, and the patient's response to therapy. If eventual contact with medical command is made, the crew shall also document that.

The following procedures shall be documented every 15 minutes during transport:

- 1) Vitals (BP, respirations, Heart rate, pulse oximetry)
- 2) EKG six second strip
- 3) Assess intravenous access sites for infiltration
- 4) Assess for any changes.
- 5) ETCO2 readings (if available



Notes:

1. Use of an automatic intravenous rate control device:

An automatic intravenous rate control device (e.g. Autosyringe, IV pump) is permitted for use by an ALS ambulance service. The device may only be used by an ALS prehospital practitioner who has been trained and is qualified to use the device. Each ALS ambulance service and its medical director are responsible for training its ALS personnel in the use of these devices.

2. Use of an automatic ventilator:

An automatic ventilation device (e.g. Autovent) is permitted for use by an ALS ambulance service. Only an ALS practitioner trained and qualified to use each specific device may use that device. Each ALS ambulance service and its medical director will be responsible for training its ALS personnel in the use of these devices.

3. Ambulance service personnel:

ALS care may be provided by an EMT-paramedic (paramedic), prehospital registered nurse (PHRN), or health professional physician. To provide ALS care, an ALS prehospital practitioner must have current medical command authorization with the ALS ambulance service. Each ALS service is responsible for assuring that all of its ALS personnel participating in ALS inter-facility transfers have received training, approved by the ALS service medical director, in the skills, equipment, intravenous pumps, and medications that may be used pursuant to regional medical treatment protocols during inter-facility transports.

A PHRN with medical command authorization shall follow the regional medical treatment and transport protocols when providing patient care as a practitioner with an ALS ambulance service. A PHRN may exceed the scope of practice of a paramedic if the PHRN is providing additional care as authorized under The Professional Nursing Law and as permitted by the regional medical treatment protocols or the order of a medical command physician. To administer drugs not included in the regional medical treatment protocols, the PHRN must receive permission from the ALS service medical director and be ordered to do so by a medical command physician.

4. Medical Command:

A medical command order (whether written, verbal, or on-line) may only be given by a medical command physician functioning in that capacity under the auspices of a medical command facility. A prehospital practitioner may only follow the orders of a sending physician if these orders are consistent with and included in the regional medical treatment protocols, unless otherwise authorized by a medical command physician. A prehospital practitioner shall also follow the direct orders of a medical command physician. If the sending facility physician and the medical command physician cannot come to a consensus regarding the treatment, the sending facility is responsible for sending qualified staff to accompany the patient.



An ALS ambulance service must work with its medical director and medical command facilities to identify the medical command facility that will be contacted for inter-facility transports. An ALS service that participates in ALS inter-facility transfers must arrange an agreement with a medical command facility to serve in this capacity.

It is the responsibility of the transporting ALS ambulance service to ensure the ability to contact medical command through the duration of the transport. The service may be able to assure continuous command capability simply by calling the prearranged medical command facility using a cellular telephone if coverage will not be disrupted during the transport. Additionally, in case of communications failure with the prearranged medical command facility, the service should identify various approved medical command facilities along the anticipated transport route. Telephone numbers and radio frequencies for these medical command facilities shall be available to the service's prehospital personnel.

5. Documentation:

The responsible prehospital provider, as designated by the written policy of the ambulance service, shall complete the standard Statewide EMS patient care report for each inter-facility transfer. Transfer data shall be submitted, along with the service's other prehospital data, to the regional EMS council on a monthly basis. The prehospital practitioner completing the report shall note in the patient care record if any special equipment or personnel from the transferring hospital were used. Only those skills and interventions performed by the personnel of the ambulance service should be documented on the EMS patient care report



Amiodarone (Cordarone)

(Intravenous Infusion)

Inclusion Criteria:

Patients who are receiving an Amiodarone infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Patients receiving multiple infusions or who are unstable require consultation with an on duty Medical Command Physician prior to transport.

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
 - e. Severity of patient's current distress.
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:
 - Concentration of mix
 - Time of infusion initiation
 - Changes in dose including patient's response
 - Current dose/Verify correct dose (**Common Dose: 0.5-1.0mg/min**)
 - Permitted Concentration / Permitted Dose (900mg/500ml) 0.5mg/min =16gtt/min
- 4. Adverse reactions
 - Sinus bradycardia, hypotension, heart block, other Dysrhythmias
 - Fever, shortness of breath
 - Nausea, vomiting, anorexia, abdominal pain
 - Allergic rash, tremor, ataxia

If any adverse reactions develop:

- a. Discontinue the infusion
- b. Contact Medical Command immediately.
- c. Maintain adequate Ventilation and Oxygenation.
- d. Treat any side effects per appropriate protocol(s).

- Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during inter-facility transfer.
- 2. The concentrations and rate of infusions should fall within the permitted range. If the medications fall outside the permitted range or if complicating circumstances exist, medical command must be sought before leaving the sending facility



Diltiazem

(Intravenous Infusion)

Inclusion Criteria:

Patients who are receiving an Diltiazem infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:

Concentration of mix

Time of infusion initiation

Changes in dose including patient's response

Current dose/Verify correct dose (Common Dose 5-10mg/hr)

Permitted Concentration(125mg(25cc)/100ml=1mg/cc)

Permitted Dose range 5mg/hr =5gtt/min 10mg/hr=10gtt/min

4. Adverse reactions

EKG changes

Hypotension, flushing, atrial flutter, AV block, bradycardia, chest pain, CHF, ventricular dysrhythmias Nausea and vomiting

Dizziness, paresthesia, headache, dry mouth

Dyspnea, edema

If any adverse reactions develop:

- a. Discontinue the infusion
- b. Contact Medical Command immediately.
- c. Maintain adequate Ventilation and Oxygenation.

- Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during interfacility transfer.
- The concentrations and rate of infusions should fall within the permitted range. If the medications fall outside the permitted range or if complicating circumstances exist, medical command must be sought before leaving the sending facility.
- 3. Incompatible with Lasix



Dobutamine

(Intravenous Infusion)

Inclusion Criteria:

Patients who are receiving an Dobutamine infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Patients receiving multiple infusions or who are unstable require consultation with an on duty Medical Command Physician prior to transport.

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
 - e. Severity of chest discomfort if any using 1-10 scale (1= painfree- 10=Severe pain)
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:

Concentration of mix

Time of infusion initiation

Changes in dose including patient's response

Current dose/Verify correct dose (Common Dose 2-20mcg/kg/min)

Permitted Concentration 500mg/250ml / Permitted Dose range 2-10mcg/kg/min

4. Adverse reactions:

Increased heart rate, increased blood pressure, ectopic beats.

Increase in AV conduction

Angina, nausea, vomiting, tingling, dyspnea, headache, mild leg cramps

5. If pulse rate increases by >30 bpm **-or-** Blood Pressure increases by > 50 mm/HG systolic **-or-** Number of PVC's increases then **Immediately Decrease Infusion rate by 50% and Contact Medical Command** for Further Orders.

- Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during interfacility transfer.
- 2. The concentrations and rate of infusions should fall within the permitted range. If the medications fall outside the permitted range or if complicating circumstances exist, medical command must be sought before leaving the sending facility.
- 3. Extravasation may cause sloughing of skin and necrosis
- 4. Drip may turn light pink after several hours—still stable to use.
- 5. Incompatible with: calcium, lasix, magnesium sulfate, potassium, sodium bicarbonate, valium



Dopamine

(Intravenous Infusion)

Inclusion Criteria:

Patients who are receiving a Dopamine infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Patients receiving multiple infusions or who are unstable require consultation with an on duty Medical Command Physician prior to transport.

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
 - e. Severity of chest discomfort if any using 1-10 scale (1= painfree- 10=Severe pain)
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:
 - Concentration of mix
 - Time of infusion initiation
 - Changes in dose including patient's response
 - Current dose/Verify correct dose (Common Dose 1-20mcg/kg/min)

Renal perfusion: start at 1 - 5 mcgs/kg/min and titrate. Blood pressure: start at 5 - 10 mcgs/kg/min and titrate.

Above 20 mcgs/kg/min stop drug—will shut patient down hemodynamically

• Permitted Concentration / Permitted Dose range:

Concentration: 1600mcg/ml (400mg in 250ml NSS)

Permitted Dose Range (2-10mcg/kg/min)

- 4. Reassessment:
 - 1. If Hypertension or Tachyarrhythmias develop, discontinue infusion and treat as per standard protocols. Contact Medical Command for further orders.
 - 2. If hypotension develops, increase infusion by 5 mcg/kg/min increments every 5-10 minutes. Do not exceed 20 mcg/kg/min without orders from Medical Command. If any other side effects develop or worsen, contact Medical Command for orders.
- 5. Adverse reactions:
 - Ectopic beats, tachycardias, anginal pain, palpitation, vasoconstriction, hypotension
 - Nausea, vomiting, headache, dyspnea
 - May have aberrant conduction, bradycardia, widening QRS complex

- 1. Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during inter-facility transfer.
- 2. The concentrations and rate of infusions should fall within the permitted range. If the medications fall outside the permitted range or if complicating circumstances exist, medical command must be sought before leaving the sending facility.



Glycoprotein IIb/IIIa Inhibitors

(Intravenous Infusion)

Commonly used Glycoprotein IIb/IIIa Inhibitors:

Aggrastat (Tirofiban) Integrilin (Eptifibatide) Reopro (Abciximab)

Inclusion Criteria:

Patients who are receiving a Glycoprotein IIb/IIIa infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Patients receiving multiple infusions or who are unstable require consultation with an on duty Medical Command Physician prior to transport.

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
 - e. Severity of chest discomfort if any using 1-10 scale (1= painfree- 10=Severe pain)
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:
 - Concentration of mix
 - Time of infusion initiation
 - Changes in dose including patient's response
 - Current dose/Verify correct dose
- 4. Continuous assessment:
 - Examine all body sites for bleeding. If any bleeding occurs, treat appropriately and report findings to the referring facility and to medical command prior to departure.
- 5. Treatment:
 - 1. If a complication occurs, the paramedic will immediately stop the infusion and call medical comman
 - 2. Treat bleeding by stopping the infusion and applying pressure as needed.

Notes:

1. Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during inter-facility transfer.



Heparin

(Intravenous Infusion)

Inclusion Criteria:

Patients who are receiving a Heparin infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Patients receiving multiple infusions or who are unstable require consultation with an on duty Medical Command Physician prior to transport.

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
 - e. Severity of chest discomfort if any using 1-10 scale (1= painfree- 10=Severe pain)
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:
 - Concentration of mix
 - Time of infusion initiation
 - Changes in dose including patient's response
 - Current dose/Verify correct dose
 - Permitted Concentration 25000/250 or 25000/500
 - Permitted Dose range 500-2000 units/hr
- 4. Continuous assessment:
 - Examine all body sites for bleeding. If any bleeding occurs, treat appropriately and report findings to the referring facility and to medical command prior to departure.
 - If chest pain develops contact medical command
- 5. Treatment:
 - If a complication occurs, the paramedic will immediately stop the infusion and call medical command
 - Treat bleeding by stopping the infusion and applying pressure as needed.

- 1. Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during inter-facility transfer.
- 2. The concentrations and rate of infusions should fall within the permitted range. If the medications fall outside the permitted range or if complicating circumstances exist, medical command must be sought before leaving the sending facility.



Lidocaine

(Intravenous Infusion)

Inclusion Criteria:

Patients who are receiving a Lidocaine infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Patients receiving multiple infusions or who are unstable require consultation with an on duty Medical Command Physician prior to transport.

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
 - e. Severity of chest discomfort if any using 1-10 scale (1= painfree- 10=Severe pain)
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:
 - Concentration of mix
 - Time of infusion initiation
 - Changes in dose including patient's response
 - Presence of ventricular ectopy
 - Current dose/Verify correct dose (1-4mg/min)(2g=2000mg/500ml)
 - a. 1 mg/min: 15ml/hr
 - b. 2mg/min: 30ml/hr
 - c. 3mg/min: 45ml/hr
 - d. 4mg/min: 60ml/hr
- 4. Adverse reactions:
 - Hypotension, arrhythmias, heart block, cardiovascular collapse, bradycardia.
 - Confusion, agitation, nausea, vomiting. seizures

If any adverse reactions develop:

- a. Discontinue the infusion
- b. Contact Medical Command immediately.

- 1. Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during interfacility transfer.
- 2. The concentrations and rate of infusions should fall within the permitted range. If the medications fall outside the permitted range or if complicating circumstances exist, medical command must be sought before leaving the sending facility.



Magnesium Sulfate

(Intravenous Infusion)

Inclusion Criteria:

Patients who are receiving a Magnesium Sulfate infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Patients receiving multiple infusions or who are unstable require consultation with an on duty Medical Command Physician prior to transport.

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:
 - Concentration of mix
 - Time of infusion initiation
 - Changes in dose including patient's response
 - Current dose/Verify correct dose
 - Maximum permitted dose (2gm/hr)
- 4. Adverse reactions:
 - CNS depression, flushing, hypotension, circulatory collapse, depression of the myocardium, hypothermia, sweating, muscle paralysis, respiratory failure
 - ECG changes—prolonged PR interval, increased QRS complex, prolonged QT interval asystole, heart block

If any adverse reactions develop:

- a. Discontinue the infusion
- b. Contact Medical Command immediately.

Notes:

- 1. Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during inter-facility transfer.
- 2. The concentrations and rate of infusions should fall within the permitted range. If the medications fall outside the permitted range or if complicating circumstances exist, medical command must be sought before leaving the sending facility. Medical Command must be contacted before transporting a patient in active labor, unless responsible personnel from the sending hospital are accompanying the patient during transfer.
- 3. Medical Command may request provider to perform patellar reflex checks prior to and during transport.

Implemented 04/15/2007 38



Nitroglycerin (Tridil)

(Intravenous Infusion)

Inclusion Criteria:

Patients who are receiving a Nitroglycerin infusion that was established by the sending facility prior to the inter-facility transfer.

Exclusion Criteria:

Procedure:

- 1. Prior to transfer, perform a patient assessment including:
 - a. Chief complaint
 - b. History of present illness
 - c. Past medical history including medications and allergies
 - d. Physical examination
 - e. Severity of chest discomfort if any using 1-10 scale (1= painfree- 10=Severe pain)
- 2. Attach cardiac monitor and document baseline vital signs. Vitals signs and EKG strips will be recorded every fifteen minutes and more often if changes occur.
- 3. Inspect the patient's infusion for:
 - Concentration of mix
 - Time of infusion initiation
 - Changes in dose including patient's response
 - Current dose/Verify correct dose (Common Dose 10-200mcg/min)
 - Permitted concentration 50mg/250ml or 100mg/250ml
 - Permitted dose range 10mcg/min to 100mcg/min
- 4. Adverse reactions:
 - Reflex tachycardia, bradycardia, flushing, headache, dizziness
 - Hypotension (see Treatment)

5. Treatment:

- 1. If the patient's pain persists or increases, the Nitroglycerin infusion can be increased in increments of 5 mcg/min. every 5-10 minutes until relief is obtained or the patient's blood pressure drops below 90 mm Hg. systolic. If patient has developed chest pain during transport, contact medical command if initial increase in nitroglycerine rate does not alleviate the pain.
- 2. If hypotension or bradycardia develop, decrease the administration rate by increments of 5 mcg/min. every 5-10 minutes until signs stabilize. Also, if hypotensive, place the patient into a supine position and elevate their legs. If severe hypotension or bradycardia develop, stop the infusion, contact medical command.
- 3. Hypotensive patients may also respond to a fluid bolus. Use this with caution in patients experiencing congestive heart failure or respiratory distress.

Continued next page



Nitroglycerin (Tridil) continued

(Intravenous Infusion)

- 1. Calculate volume needed to complete transfer. Infusions should be given using an accurate electronic intravenous pump. "Dial-a-flow" IV tubing does not deliver the appropriate accuracy for medications during inter-facility transfer.
- 2. The concentrations and rate of infusions should fall within the permitted range. If the medications fall outside the permitted range or if complicating circumstances exist, medical command must be sought before leaving the sending facility.

Appendix



Facilities Resource

Abington Memorial Hospital Medical Command-215-886-0425

Level II Trauma Center Primary Stroke Center PCI Capabilities

Aria Health Bucks County Campus Medical Command-215-547-4990

Aria Health Torresdale Campus Medical Command- 215-632-3435 Level II Trauma Center PCI Capabilities

Doylestown Hospital Medical Command –215-345-4154 Primary Stroke Center PCI Capabilities

Grand View Hospital Medical Command—215-257-8529 Primary Stroke Center

Lower Bucks HospitalMedical Command-1-866-247-0747 **PCI Capabilities**

St. Luke's Hospital-Quakertown Campus Medical Command- 215-536-5588

St. Mary Medical Center
Medical Command -215-752-5229
Level II Trauma Center
Primary Stroke Center
PCI Capabilities

Lansdale Hospital Medical Command-215-362-8905 Lehigh Valley Hospital-Cedar Crest Level I Trauma Center Level II Pediatric Trauma Burn Center Primary Stroke Center PCI Capabilities

Lehigh Valley Hospital-Muhlenberg Primary Stroke Center PCI Capabilities

St. Luke's Hospital-Bethlehem Level I Trauma Center Primary Stroke Center PCI Capabilities

Capital Health Regional Medical Center Trenton, NJ Level II Trauma Center Primary Stroke Center

Capital Health Hopewell Campus Penninton, NJ Primary Stroke Center

St. Christopher's Children's Hospital Level I Pediatric Trauma Center

Children's Hospital of Philadelphia Level I Pediatric Trauma Center

Temple University Hospital Level I Trauma Center Burn Center

Updated 12/09/2011 42



Medical Command Facility Assignments

Medical Command Facility Assignments are for refusals only.

Lower Bucks Hospital Squad 143 Squad 154

Aria Health Torresdale Campus Squad 114 Squad 185/186

Aria Health Bucks County Campus Squad 100 Squad139 Squad 155

> St. Mary Medical Center Squad 113/115 Squad 135 Squad 145 Squad 167/168

Doylestown Hospital Squad 122 Squad 124 Squad 125 Squad 129

Squad 134

St. Luke's Hospital—Quakertown Campus Squad 108 Squad 141/142

> Grand View Hospital Squad 151 Squad 339



Regional Updates Changes

Date	Protocol Title	Comments
01/01/2009	Intra-osseous Infusion	Updated –added proximal humerus
01/01/2009	Optional Approved Regional Equipment	Added- Replaced required regional equipment
01/01/2009	Required Regional Equipment	Deleted all equipment listed mandated by state
01/01/2009	ALS to BLS Transfer	Updated- Added ALS units with mixed crew certification section
01/01/2009	Transportation of Bariatric Patients	Added
01/01/2009	Medical Command Refusals	Added
01/01/2009	Appendix Section	Added
09/01/2009	Regional Medication List	Added Fentanyl as Optional
08/01/2010	Regional Medication List	Added Lorazepam as Optional
08/01/2010	Inter-facility Transport—Dobutamine	Corrected Concentration to 500mg/250ml
07/01/2011	Needle Chest Decompression	Removed Covered by statewide Protocol
07/01/2011	Mucosal Atomization Device	Removed Covered by statewide Protocol
07/01/2011	Intra-osseous infusion	Removed Covered by statewide Protocol
07/01/2011	Nebulizer treatment	Removed Covered by statewide Protocol
07/01/2011	INT	Removed Covered by statewide Protocol
07/01/2011	Regional Optional Equipment	Removed Covered by statewide Protocol
07/01/2011	ALS to BLS transfer	Removed Covered by statewide Protocol
07/01/2011	Regional Medication List	Updated, Removed Furosemide, Increased Epi 1:1000
07/01/2011	Regional Medication List	Changes controlled substance- removed Diazepam
0701/2011	First in Drugs	Removed
12/01/2011	Commitment for Medical / Psychiatric Evaluation	Added
12/01/2011	Pre-hospital medications	updated

THIS PAGE IN	NTENTIONA	ALLY LEFT	BLANK