

2016 ECEMS Protocol Changes

Almost all treatment and medication protocols got some formatting changes such as layout, spelling and grammar to ensure ease of reading, consistency and accuracy throughout the protocol book. In addition to the protocol specific changes listed below, the systolic BP cutoff for all adult medications and procedures that have blood pressure limitations have been changed to **90 mmHg** as the cutoff to make it easier to remember for the medical provider and consistent throughout. Below is listed the changes made to the protocol book:

Table of contents: reordered to be alphabetical and renumbered. Removed Induced Hypothermia

Preface:

Death in the field- DNR language added under Medical arrest section. Under note 4, a spelling error was fixed.

Medical Control of Drugs sheet- Some drugs were reordered to accurately reflect their actual medical control category.

Universal Patient Care protocol- GCS and 12-lead added to treatment flow as prn.

Treatment:

Abdominal Pain- 12-lead added to treatment flow. Additional routes for Fentanyl and Morphine added as well as repeat timeframes/max dosages. **Fentanyl added** to pediatric section. Morphine dosage range for initial dose revised to match pain management protocol.

Altered Mental Status- IO added to D-50 section with Normal Saline dilution. **Hyperglycemia section added with guidelines for care.** Nebulized Narcan removed.

Anaphylaxis- **Albuterol use added.** IO added for Benadryl delivery

Cardiac Arrest (CPR sheet)- changed 30:2/15:2 to 10:1 to match current practice of HP-CPR

Cardiac Arrest (PEA)- Added IO to Sodium Bicarb route.

Cardiac Arrest (V-fib/V-tach)- Added to mag dosage “diluted in 10ml NS IV/IO over 1-2 minutes.” To match drug sheet. Removed Induced Hypothermia

Cardiac Arrest (Post Resus): Removed “Induced hypothermia”, replaced with “Avoid hyperthermia”

Cardiac Dysrhythmia (Brady)- Removed “if feasible” verbage. Added IO to Versed/Atropine routes. Added Lorazepam info from Pacing procedure protocol.

Cardiac Dysrhythmia (Tachy)- **Added Calcium Chloride information for use with Diltiazem with Hypotension. Out of place Lidocaine information removed.**

Chest Pain- Changed Morphine dosage to match Pain protocol. **Fixed STEMI indications error by moving “Women with 1.5 mm ST Elevation in V2/V3” etc up and placing the “1 mm in two contiguous” leads below. This also allowed for changes to be made to the second criteria to include all other leads. See protocol for clarification of changes with Not a Heart One. Also avoid MS on STEMI patients and NS bolus for inferior MI when/if administering NTG.**

Crush Injury- removed Sodium Bicarb note and replaced with reference to Hyper K protocol.

Hyperkalemia- Added 12-lead to treatment. Removed it from the notes. Added IO to Bicarb routes.

Hypothermia- Removed organized rhythm section after adding “Handle gently” above. Removed Key considerations since they are already addressed in the protocol and keeps the protocol to one page.

Nausea/Vomiting- **Reworded the Benadryl section to accurately reflect its proper use for adverse (dystonic) reactions to antiemetic vs for treating nausea.**

Pain Management- **Removed “or”** between Fent and MS. Added IO to MS route and IN to peds route. **Added max Fentanyl of 400 mcg total.**

Poisoning/Overdose- Added Poison control’s phone number to protocol. Corrected Atropine dosage to reflect HAZmat protocol. **Included 2-pam verbage** with directive to contact OLMC and reference to HAZmat specific protocol. Removed OLMC from Bicarb on sheet to reflect Bicarb category and drug sheet. Added for Tricyclic to contact OLMS or Poison Control.

Respiratory Distress- Added “maintain systolic of 90 mmHG” to IV nitro section. **Added clarification on EPI 1:1,000 for pt’s >40 y/o.** clarified croup/epiglottitis in peds.

Stroke, CVA: Added language “Consider Code 3 transport per patient presentation”

Medications:

Acetaminophen- Added “15 mg/kg” to dosaging to match Seizure protocol

Activated Charcoal- Changed Class to B to be consistent with poisoning protocol. Added protocols used in. Removed Ipecac verbage since ipecac isn’t in our protocol system. Removed OLMC in notes since it is already a Class B drug.

Adenosine- Changed protocols used in from ACLS to Cardiac Dysrhythmias-Tachycardia to match protocol titles. Also deleted Contraindication “D” since it’s already listed in the precautions. Also **added information on attempting Adenosine for monomorphic, wide complex tachycardia where SVT with aberrancy is suspected.** Reformatted the sheet to fit Peds dosaging on the one sheet as well. Reworded

the Pediatric section to add clarity on dosing to match 2010 PALS guidelines. added, "May administer with order from OLMC or Poison Control".

Albuterol- Changed OLMC to CLASS and added A and B with clarification of class B. removed "Supplied" to match other drug sheets and added "Protocols used in". fixed Bronchospasm typo.

Aspirin- Changed Protocols used in to match actual protocol titles.

Albuterol/Atrovent- Changed "Duomed" to DuoNeb to match protocol and trade name

Amiodarone- Changed protocols used in to reflect protocol titles. Added IO to cardiac arrest option.

Atropine- Change protocols used in to reflect protocol titles. **Change dosaging to match protocols** including adding a section for dosaging in an organophosphate poisoning.

Calcium Chloride- changed protocols used in to reflect protocol titles. **Changed indications/dosaging to match protocols.** Added pediatric dosage to match hyperk protocol. Added to protocols where gluconate is indicated except hydrogen fluoride overexposure.

Calcium Gluconate- Changed OLMC to Class and specified. Added protocols used in and removed supplied in information. Added Hydrogen Fluoride poisoning information. Added to protocols where Chloride is indicated.

Dextrose- added D 10% to header/footer. Other minor formatting

Diltiazem- Corrected header spelling error. Added info to pediatric info box. Changed protocols used in to match protocols.

Diphenhydramine- corrected typo in header/footer. Added Class B for use with 2 or more sedatives in a combative pt. Added N/V, altered mental status and poisoning/OD to protocols used in section. Added **antiemetic** to dystonia list. Added IO to route. Added max in pediatric information. Changed "not first line" and added clarity in allergic reactions vs anaphylaxis. Added indication for sedation for a combative patient and dosaging. Added class B for 2/more IV sedatives

Dopamine- Corrected class to "A". Added several protocols to protocols used in. Reworded the dosage to be inclusive of the different dosage ranges in the protocols.

Epinephrine- Added Class B with information. Added protocols in protocols used in. Added indications associated with protocols with specifications on OLMC for asthma pt >40 y/o, hx of CAD or more than 3 doses given. Changed adult and pediatric dosages to match current protocols. Added croup/epiglottitis in indications and added dosaging.

Etomidate- Changed protocols used in to match protocol titles. Added max single dosage to drug sheet.

Fentanyl- changed protocols used in to match protocols used in. Fixed typo. Changed pediatric dosage to match pain management protocol.

Glucagon- added class B for poisoning/overdoses (Beta blocker OD). Changed protocols used in to match protocol book.

Glucose- changed protocols used in to match protocols used in.

Haloperidol- Changed protocols used in to match protocols. Changed medication range for adults to match protocol. Added Class B for 2/more IV sedatives.

Hydroxocobalamin- removed OLMC required and replaced with CLASS A to match other protocols with second dose OLMC underlined in dosaging. Removed Supplied In and replaced with Protocols used in to match other drug sheets.

Ipratropium Bromide- removed OLMC Required and Supplied in and replaced with CLASS A and PROTOCOLS USED IN to match other drug sheets.

Ketamine- Added Patient chemical restraint protocol to protocols used in. Added clarification in peds dosage for RSI dosage.

Lidocaine- Changed protocols used in. Changed indications to reflect current uses in ECEMS protocols. Changed dosages to match indications and current protocols. Changed peds dosage to match protocols.

Lorazepam- changed protocols used in. Changed indications and dosages to match protocols. Added class b for 2/more IV sedatives.

Mag Sulfate- Changed protocols used in to match protocols. Added pediatric dosaging to match protocols.

Midazolam- changed protocols used in. Changed dosaging to match current protocols. Added class B for sympathomimetic OD.

Morphine- changed protocols used in to match current protocols. Changed dose in adult pain management to reflect pain management protocol. **Removed Abd pain from contraindications since it's indicated in our abd pain protocols. Added language for STEMI.**

Naloxone- Changed protocols used in to match protocols. Changed routes to match routes used in protocols. Corrected typo

Nitroglycerin- Changed protocols used in. formatted dosaging information and added info for pediatric box. Changed indications for hypertensive crisis to be more inclusive for all end organ failure criteria.

Ondansetron- Changed dosaging information to match N/V protocol. Added Class B info for pts < 2 y/o. Added redosing information given in the N/V protocol.

Oxytocin- Changed protocols used in. Changed class to reflect protocols. Added info about natural production of pitocin via fundul massage and nursing.

Pralidoxime- Removed supplied in and OLMC for CLASS and PROTOCOLS USED IN.

Rocuronium- Changed protocols used in and the dosages. Removed Induced Hypothermia

Sodium Bicarb- Changed protocols used in. Added Hyper K/crush injury indication and dosaging. Changed pediatric dosaging to reflect 1 mEq/kg for all indications.

Thiamine- Changed protocols used in to match protocols. Added pediatric information

Succinylcholine- changed protocols used in to match protocols. Removed Lidocaine reference. Corrected dosage.

Vasopressin- Changed protocols used in to match protocol headings.

Vecuronium- Removed OLMC and SUPPLIED in and replaced with Class and protocols used in. Removed Induced hypothermia

Procedures:

Airway management- changed “partial” to “non” rebreather to match information in oxygen protocol.

CPAP- Changed the beginning of the indications to clean up the language and added severe asthma per respiratory distress protocol.

Orotracheal Intubation- formatting. Changed heading and title

Endotracheal Intubation RSI- formatting:

Change Adult Roc paralytic dose (Procedure section C) to 1.0-1.2mg/kg

Change Adult Roc continued sedation/paralysis dose (Procedure section G) to 0.1-0.2mg/kg IV prn.

Added Pediatric RSI

Induced Hypothermia: Removed entire protocol

Intranasal: added repeat prn 15 min.

Patient Restraint- Added IV to the end of Ketamine 1 mg/kg

Tension Pneumothorax Decompression- Changed language to match Anterior Axillary region vs Mid axillary region

Transcutaneous Pacing- Added Lorazepam verbage.

Trauma:

Trauma System- Formatting to reduce by one page

START Triage- Changed the delayed box from blue to yellow to match start triage colors