

HEALTHEAST MEDICAL TRANSPORTATION  
 MEDICAL OPERATIONS MANUAL  
**Changes to 2016 edition**

---

**TOC**

Updated to new format

**Scope of Practice**

EMT Added Mechanical CPR (LUCAS)  
 Added LVAD – Ambulatory Patient (implanted)

Paramedic

Deleted Venturi mask (not used)  
 Deleted Chest tube monitoring (Critical Care)  
 Deleted Cricoid Pressure  
 Deleted ICD Magnet Application  
 Deleted Pelvic wrap  
 Deleted Pitocin  
 Deleted ET as medication route  
 Deleted Rectal as medication route  
 Deleted Subcutaneous as medication route  
 Deleted Hurrricane Spray  
 Deleted Alcaine drops  
 Deleted Marc 1 Kit  
 Added Chemical Restraints  
 Added Surgical Airway (should have then all along)  
 Added Haldol  
 Added Diltiazem  
 Added Epi Infusion (911 only)  
 Added Levophed infusion (911 only)  
 Added Ibuprophen  
 Added Acetaminophen  
 Added Rocuronium  
 Changed D50 to D10

Critical Care

Updated procedures and medications

2016 Protocol	Replaces	Changes
<b><u>Section 1: General</u></b>		
1A: Overview of Patient Care Guidelines		Whole section is new
1B: General Assessment and Care	AM1, PM1	Whole section is new
1C: Pain and Nausea Management	AM13,AM15, PM11, PM13	Whole section is new <ul style="list-style-type: none"> <li>• Initial dose of Fentanyl Pain scales &lt;7 1mcg/kg, Score 7-10 2 mcg/kg IV in increments of 100 mcg</li> <li>• MS dosing 0.05 mg/kg for score &lt;7. 0.1 mg/kg for scores 7-10 in increments of 5 mg</li> </ul>

HEALTHEAST MEDICAL TRANSPORTATION  
 MEDICAL OPERATIONS MANUAL  
**Changes to 2016 edition**

		<ul style="list-style-type: none"> <li>• Toradol and MS for headache</li> <li>• Toradol for non-specific complaints</li> <li>• Ibuprofen and acetaminophen for non-narcotic option</li> </ul>
1D: Anxiety and Sedation Management	AM5, PM6	All new
<b>Section 2: Cardiac</b>		
2A Chest Discomfort/Acute Coronary Syndrome	AM2	No change
2B Cardiac Arrest	ACA1, PCA 1	All new
2C Ventricular Fibrillation Pulseless VT	ACA2, PCA1	All new <ul style="list-style-type: none"> <li>• No Epi for shockable arrest</li> <li>• Early transport criteria</li> </ul>
2D PEA/Asystole	ACA3, ACA4, PCA1	All new <ul style="list-style-type: none"> <li>• Option for epi infusion instead of preload epi – initiate at 100 gtts/min using 60 gtts/ml tubing</li> <li>• Early bicarb administration</li> </ul>
2E Hyperkalemic Arrest		All new
2F Post Resuscitation Care	ACA 5, PCA2	<ul style="list-style-type: none"> <li>• Epi infusion replaces dopamine for post PEA/Asystole ROSC</li> <li>• Dopamine for VT/VT ROSC</li> </ul>
2G Bradycardia/AV Block	AM 7, PM 5	<ul style="list-style-type: none"> <li>• Highlighted that Atropine not to be given in 3<sup>rd</sup> Degree HB</li> <li>• Accents Dopamine first then Pacing</li> </ul>
2H PSVT	Adapted from Tachycardia Replaces part of AM 6, PM 4	No Changes
2I Wide Complex Tachycardia	Adapted from Tachycardia Replaces part of AM 6, PM 4	No Changes
2J Atrial Fib Flutter	Adapted from Tachycardia Replaces part of AM 6, PM 4	<ul style="list-style-type: none"> <li>• Lower dose of ca channel blockers for older patient</li> </ul>
2K Ventricular Ectopy	<b>New</b>	<ul style="list-style-type: none"> <li>• Lidocaine for PVCs</li> </ul>
2L Hypotension/Cardiogenic Shock	Adapted from Shock AM22, PM 18	<ul style="list-style-type: none"> <li>• Added Levophed to cardiogenic shock. Replaces Dopamine</li> </ul>
2M Symptomatic Hypertension	AM8	
<b>Section 3: Medical</b>		
3A Upper Airway Obstruction	AM 17, PM 15	<ul style="list-style-type: none"> <li>• FBAO for less than 1 year</li> <li>• Alternate back blows with chest compressions.</li> <li>• Incorporated Croup and Epiglottitis,</li> </ul>
3B Asthma, COPD, Bronchospasm	AM19, AM20, PM 16	No Changes

HEALTHEAST MEDICAL TRANSPORTATION  
 MEDICAL OPERATIONS MANUAL  
**Changes to 2016 edition**

3C Acute Pulmonary Edema	AM18	<ul style="list-style-type: none"> <li>• NTG infusion changes to weight based</li> <li>• NTG starts at 0.5 mcg/kg/min and titrate by 0.1 mcg/kg/min to max of 4 mcg/kg/min</li> </ul>
3D Altered Mental Status	AM 3 and PM 2	<ul style="list-style-type: none"> <li>• Titrate Narcan in 0.4 mg increments</li> </ul>
3E Stroke	AM 23	<ul style="list-style-type: none"> <li>• Window 6 hours including wake up strokes</li> <li>• LAPPS used instead of CSS</li> <li>• Treatment of severe hypertension</li> </ul>
3F Seizures	AM 21, PM 17	No major changes
3G Hypoglycemia	AM 9 and PM 7	<ul style="list-style-type: none"> <li>• Use of D10 instead of D50</li> <li>• Treat less than 60 in adults in children, 50 in infants</li> <li>• D10W infusion for transported patients</li> <li>• Instructions on dealing with Insulin Pumps</li> </ul>
3H Hyperglycemia	AM 10 and PM 8	<ul style="list-style-type: none"> <li>• Accents volume resuscitation with multiple IVs</li> </ul>
3I Sepsis/Septic Shock	<b><u>New</u></b>	<p>All New</p> <ul style="list-style-type: none"> <li>• Volume resuscitation</li> <li>• Levophed infusion for shock</li> </ul>
3J Behavioral Emergencies	Address Excited Delirium from AM 5	<ul style="list-style-type: none"> <li>• Reference Physical and Chemical Restraint policy</li> <li>• Provides definition of routine agitation, severe agitation, and excited delirium</li> <li>• Haldol is NOT to be given IV</li> </ul>
3K Overdose	AM16 and PM14  OD split from Toxic Exposures	<ul style="list-style-type: none"> <li>• IN dose of Narcan is 2 mg.</li> <li>• Calcium gluconate is 3 times the dose of calcium chloride</li> </ul>
3L Gastrointestinal Emergencies	Address part of Shock AM22 and PM 18	<ul style="list-style-type: none"> <li>• Dopamine only after fluid resuscitation</li> </ul>
<b><u>Section 4: Trauma</u></b>		
4A Trauma Care	AT 1, AT 3, AT4, AT5, AT6, PT 1, PT 3, PT4, PT5, PT6	<ul style="list-style-type: none"> <li>• New Organization</li> <li>• Reference removal of Helmet and protective athletic equipment per procedure 7Y</li> </ul>
4B Burns	AT2, PT2	<ul style="list-style-type: none"> <li>• WaterJel for BSA &lt; 25%</li> </ul>
4C Eye Injuries	AT4, PT5	No changes
4D Submersion Trauma	AT7, PT7	No changes
4E Nosebleed	<b><u>New</u></b>	<ul style="list-style-type: none"> <li>• Neo-synephrine replaces Afrin</li> </ul>
4F TASER and Chemical Irritants	<b><u>New</u></b>	

HEALTHEAST MEDICAL TRANSPORTATION  
 MEDICAL OPERATIONS MANUAL  
**Changes to 2016 edition**

<b><u>Section 5: Environmental</u></b>		
5A Allergic Reaction/Anaphylaxis	AM 4 and PM 3	<ul style="list-style-type: none"> <li>Added Epi 10,000 IV and Epi Infusion for Anaphylactic Shock unresponsive to 1,000 Epi and fluids</li> </ul>
5B Hypothermia	AM 12 and PM 9	No major changes
5C Hyperthermia	AM 11 and PM 10	No changes
5D Toxic Exposures	AM16 and PM14 split from Overdose	<ul style="list-style-type: none"> <li>Carbon Monoxide exposure algorithm</li> </ul>
<b><u>Section 6: Obstetrics/Neonatal</u></b>		
6A Normal Labor and Delivery	OB 1	No changes
6B Complications of labor and delivery	OB3	<ul style="list-style-type: none"> <li>Explicit instructions for breech, nuchal cord, shoulder dystocia, hemorrhage, and uterine inversion</li> </ul>
6C Neonatal Resuscitation	PCA3	Updated to 2015 guidelines. Should be reviewed in depth
6D Complications of Pregnancy	OB 2 and OB 4	New organization and updated
6E Trauma in Pregnancy	<b><u>NEW</u></b>	
<b><u>Section 7 Procedures</u></b>		
7A NPA	P002 Separated from BLS airway	Updated.
7B OPA	P002 Separated from BLS airway	Updated.
7C BVM	P002 Separated from BLS airway	<ul style="list-style-type: none"> <li>Two-person technique is preferred. One-person technique only when resources are limited</li> <li>Photos</li> </ul>
7D CPAP	P008	<ul style="list-style-type: none"> <li>Updated for use with Pulmodyne O2 Max</li> <li>Instructions on using in-line neb with CPAP</li> <li>Photos</li> </ul>
7E Supraglottic Airway	P001	<ul style="list-style-type: none"> <li>Updated for AirQ</li> <li>Photos</li> </ul>
7F Advanced Airway Management	<b><u>NEW</u></b>	<ul style="list-style-type: none"> <li>Provides Universal approach to airway management</li> <li>Presents Crash Airway, DFAM, Failed Airway indications</li> <li>Specific instructions on LEMON, Mallampati, and ULBT evaluation for possible difficult airway</li> </ul>
7F1 DFAM	P001	<ul style="list-style-type: none"> <li>Updated to address video laryngoscopy</li> <li>Allow 2-4 minutes between each</li> </ul>

## HEALTHEAST MEDICAL TRANSPORTATION

## MEDICAL OPERATIONS MANUAL

**Changes to 2016 edition**

		<p>medication for full effect</p> <ul style="list-style-type: none"> <li>• Pre-treatment meds Atropine and Lidocaine included with their indications</li> <li>• Etomidate dose changed to 0.3 mg/kg for both adult and peds</li> <li>• Succinylcholine dose changed to 1.5 mg/kg</li> <li>• Post intubation sedation and pain control highlighted</li> </ul>
7F2 Direct Laryngoscopy	P001	<ul style="list-style-type: none"> <li>• Updated to address positioning, choice of blade, and use of bougie</li> <li>• Bougie or stylet required for all direct laryngoscopy attempts</li> <li>• Photos of grading for vocal cord visualization</li> </ul>
7F3 Video Laryngoscopy	<b><u>NEW</u></b>	<ul style="list-style-type: none"> <li>• All new organization highlighting challenges learned</li> </ul>
7F4 Quicktrach	P001	<ul style="list-style-type: none"> <li>• Detailed instructions with photos</li> </ul>
7F Needle Cricothyrotomy:	Extracted from Procedure 001	<ul style="list-style-type: none"> <li>• Updated with photos and improved instructions</li> </ul>
7F6 Ventilator Management	<b><u>NEW</u></b>	
A New	<b><u>NEW</u></b>	
7G1 ResQPod	P014	<ul style="list-style-type: none"> <li>• Updated to show proper connection order of BVM and advanced airway. Added ResQStrap to procedure.</li> <li>• Accents 2-person BVM required</li> </ul>
7G2 LUCAS	<b><u>NEW</u></b> adapted from User's Manual	
7H 12-Lead ECG and Cath Lab Activation	P019	<ul style="list-style-type: none"> <li>• Updated figures</li> <li>• Criteria change: 2mm in precordial leads, 1 mm in inferior leads</li> </ul>
7I Transcutaneous Pacing	P017	<ul style="list-style-type: none"> <li>• Updated with illustrations</li> <li>• Starting energy levels and rates</li> </ul>
7J Synchronized Cardioversion	P006	<ul style="list-style-type: none"> <li>• Updated current levels</li> <li>• PSVT,A-flutter: 50-100J</li> <li>• Atrial Fib 120-200J</li> <li>• VT with pulse 100J-200J</li> </ul>
7K Level One Trauma Triage and Transport	Extracted from AT1, PT1	No changes
7L Bleeding Control	P007	<ul style="list-style-type: none"> <li>• Combines general bleeding control and CAT use</li> </ul>
7M Selective Spinal Motion Restriction	All New, updated from P015	<ul style="list-style-type: none"> <li>• Backboards only for extrication</li> <li>• C-collar alone sufficient</li> </ul>

HEALTHEAST MEDICAL TRANSPORTATION  
 MEDICAL OPERATIONS MANUAL  
**Changes to 2016 edition**

		<ul style="list-style-type: none"> <li>Algorithm for extrication and transport phase</li> </ul>
7N KED	Extracted from P015	<ul style="list-style-type: none"> <li>Updated with photos</li> <li>No major changes</li> </ul>
7O Splinting	<b><u>New</u></b>	<ul style="list-style-type: none"> <li>General splinting</li> <li>Sager</li> <li>Hare</li> </ul>
7P Chest Decompression	P016	<ul style="list-style-type: none"> <li>Updated</li> <li>Insertion site is now the 4<sup>th</sup> or 5<sup>th</sup> intercostal space at the anterior axillary line</li> </ul>
7Q Intravenous Access	Extracted from P018	<ul style="list-style-type: none"> <li>Updated with EMT level skills.</li> </ul>
7R Intraosseous Access	Extracted from P018	<ul style="list-style-type: none"> <li>Updated with both manual and EZIO procedure for adult and peds</li> </ul>
7S External Jugular Vein Access	Extracted from P018	<ul style="list-style-type: none"> <li>Updated steps</li> <li>Photos</li> </ul>
7T Medication Administration and Cross Check	<b><u>New</u></b>	<ul style="list-style-type: none"> <li>Corresponds with Clinical Policy</li> <li>Corresponds to laminated MACC reference card</li> </ul>
7U Intranasal Medication Administration	P012	<ul style="list-style-type: none"> <li>Updated with photos</li> </ul>
7V Nebulized Medication Administration	P003	<ul style="list-style-type: none"> <li>Photos of set up</li> <li>In-line with ET tube and CPAP</li> </ul>
7W EpiPen	Combines Procedure 009 and 010	<ul style="list-style-type: none"> <li>No major changes</li> </ul>
7X Glucometry	<b><u>New</u></b>	<ul style="list-style-type: none"> <li>Instructions specific to HEMT glucometer</li> </ul>
7Y Helmet and Athletic Equipment Removal	<b><u>New</u></b>	
<b><u>Deleted Procedures</u></b>		
P004 Documentation		Addressed in Clinical Policy
P011 ICD Magnet Use		No evidence for use
P013 Routine OB Deliver		Now in protocol
P020 Patient Thermometer		Instructions not needed
<b><u>Section 8 Medications</u></b>		
Dopamine		Initiate at 60 gtts/min (NOT WIDE OPEN) Titrate to HR 100-110 bpm then to MAP greater than 65 mmHg
Epinephrine Infusion		Infusion at 0.1 mcg/kg/min titrating to a maximum dose of 0.5 mcg/kg/min <sup>2</sup> . Titrate to keep MAP greater than 65 mmHg. (NOT WIDE OPEN)
Norepinephrine Infusion		Infusion at 0.1 mcg/kg/min titrating to a maximum dose of 0.5

HEALTHEAST MEDICAL TRANSPORTATION  
 MEDICAL OPERATIONS MANUAL  
**Changes to 2016 edition**

		mcg/kg/min <sup>2</sup> . Titrate to keep MAP greater than 65 mmHg. (NOT WIDE OPEN)
<b><u>Section 9 Clinical Policies</u></b>		
9.2 Medical Control		St. Johns is final alternative for medical control when other options fail
9.8 Withholding Resuscitation		Document asystole for 1 minute if reasonable to do so to document death of non-resuscitated patient
9.9 DNR/DNI Patient Care		Contact Supervisor to coordinate notification of next kin in the event of patient death
9.26 Hospital to SNF Transfers		Updated acceptable vital signs chart
<b><u>Section 10 References</u></b>		
Reference 1 Abbreviations		Updated list of acceptable abbreviations that may be used in patient care documentation
Reference 2 Burn Chart		Updated illustration
Reference 3 Coma Scales		Includes LAPPS and Glasgow
Reference 4 Normal Lab Values		No change
Reference 5 Common Prescription Medications		Updated with 2016 most commonly prescribed medications
Reference 6 Handtevy Guidelines	<b><u>NEW Replaces previous Reference 7</u></b>	
Reference 7 Pediatric Assessment Tools		Previously Reference 6
Reference 8 Stroke Scales		Added RAPID and MEND stroke scales (not currently in use by HEMT)
Reference 9 START Triage		No change
Reference 10 Medication Administration and Cross Check		Reference chart to augment Policy 9.5