



Checklists
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Clinical

Anaphylaxis

Asthma

Cardiac Arrest

Post Arrest/ROSC

Chest Pain

CHF/Pulmonary Edema

COPD

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Sepsis

Stroke

Syncope

Trauma

Procedural

Cardioversion

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Anaphylaxis



START - IMMEDIATE ACTION ITEMS

- 1 Epi 1:1,000 0.3mg IM
(Ped 0.01 mg/kg, Max 0.3mg)
- 2 IV fluids/ 1-2 liters titrated to LOC, HR,
End organ perfusion
- 3 Cardiac monitoring
- 4 12 Lead EKG
- 5 Interpret and Monitor EtCO₂

KEY CONSIDERATIONS

- Follow-up doses of Epi q 3-5 minutes prn
- Albuterol with respiratory involvement
- Diphenhydramine 25-50 IV or IM
(Ped 1 mg/kg)
- Methylprednisolone 125mg IV
(Ped 2mg/kg)

OTHER CONSIDERATIONS

- Epi 1:10:000-0.1-0.3mg SIVP only when severe hypotension and/or hypoxia justify the cardiovascular risk of IV Epi administration
- Epi 1:1,000 drip for refractory hypotension 2-10mcg/min, Discontinue > 110mmHg
- In a small percentage of cases anaphylaxis may present without oral swelling or urticaria, presenting only with unexplained hypotension
- Biphasic and Protracted reactions occur in up to 20% of cases; hours after resolution of initial reaction and without re-exposure to allergen

****Document all checklist action items executed in ePCR****

Anaphylaxis Checklist[©]



Asthma

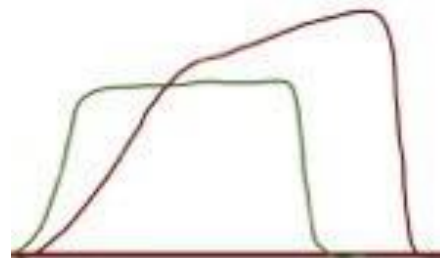


START - IMMEDIATE ACTION ITEMS

- 1 Administer Albuterol 5mg / Atrovent 0.5mg nebulizer
- 2 Interpret and monitor EtCO₂
- 3 Administer Methylprednisolone 125mg IV (Ped 2mg/kg)
- 4 Consider Epi 1:1,000 0.3mg IM (Ped 0.01mg/kg, Max 0.3mg)
- 5 Consider CPAP (Unless BP < 90)

KEY CONSIDERATIONS

- Magnesium 2gm in 100 ml NS 15 min
- Repeat Albuterol 5mg Nebulizer
- Consider intubation
- 12 Lead EKG
- Notify ED
- CPAP
- Intubation



Green: Normal
Red: Abnormal

OTHER CONSIDERATIONS

- With CPAP use lowest possible pressure
- Contraindications to CPAP include pneumothorax, respiratory arrest or inadequate respirations, unconscious or inability to protect airway, shock or BP<90, penetrating chest trauma, persistent nausea or emesis, facial trauma or abnormalities, or recent GI surgery or bleeding
- EtCO₂ should be monitored for trending and waveform indicators
(Ex: Bronchoconstriction)

**Document all checklist action items
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Asthma Checklist[©]



Cardiac Arrest



START - IMMEDIATE ACTION ITEMS

- 1 Initiate High Performance CPR, resuscitation triangle positions
- 2 Initiate uninterrupted chest compressions
- 3 Announce CPR in progress over radio
- 4 Ventilate on 10th upstroke; max 10 per min
- 5 Pre-charge for shock/minimize peri-shock pause < 10sec VF/VT (Ped 2J/kg, 4J/kg, 4J/kg)

KEY CONSIDERATIONS

- POLST / DNR?
- Epi IV/IO: 1mg every 3-5 min
(Ped 0.01mg/kg, Max 1mg)
- Vasopressin 40 units, may be substituted for 2nd dose of Epi
- Amiodarone IV/IO: Refractory VF/VT
 - 1st dose: 300mg bolus (Ped 5mg/kg)
 - 2nd dose: 150mg bolus
- Continue Asystole/PEA resuscitation for a min of 45 minutes if EtCO₂ is above 20
- When ROSC occurs - Immediately initiate ROSC checklist

OTHER CONSIDERATIONS

Tenants of HPCPR

- 2 min compression cycles
- Rate target 110 cpm
- Depth & recoil are important
- Clear identification of leader and position
- Advanced procedures should be subordinate to high quality CPR
- Deliver shock within 2 seconds of CPR pause

LIFEPAK in “PADDLE” view

Potential Reversible Causes

- Hypovolemia
- Hypoxia
- Hydrogen ion - acidosis
- Hyperkalemia / Hypokalemia
- Hypothermia
- Tablets (drug OD, poisoning)
- Tamponade (cardiac)
- Tension pneumothorax
- Thrombosis, coronary (ACS)
- Thrombosis, pulmonary (embolism)

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Cardiac Arrest Checklist ©



Post Arrest-ROSC



START - IMMEDIATE ACTION ITEMS

- 1 Maintain triangle and assign pulse monitor
- 2 Begin 10 min ROSC stabilization period
- 3 Obtain vital signs
- 4 Consider advanced airway
- 5 Titrate to lowest FiO_2 while maintaining $\text{SaO}_2 \geq 94\%$
- 6 Set tidal volume at 6-8 ml/kg
- 7 Optimize ventilation - EtCo_2 Target 35
- 8 12 lead EKG
- 9 IV fluids and vasopressors if hypotensive
- 10 Consider sedative over paralytics
- 11 Check blood sugar
- 12 Contact ED physician

OTHER CONSIDERATIONS

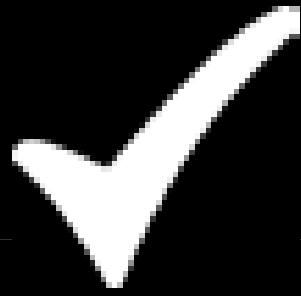
- Prophylactic anti-arrhythmics are not recommended. Contact Medical Control
- Assign one team member to monitor pulses until destination
- Assure minute ventilation is adequately increased to compensate for severe acidosis (ex: ASA overdose, DKA) or CO₂ retention
- Tidal volume should be based on ideal body weight

****Document all checklist action items executed in ePCR****

Post Arrest-ROSC Checklist ©



Chest Pain



START - IMMEDIATE ACTION ITEMS

- 1 12 Lead EKG < 10 minutes
- 2 If CODE STEMI - Announce CODE STEMI and PROCEED TO CHECKLIST BELOW
- 3 Administer aspirin or document reason not administered
- 4 Establish IV
- 5 Administer NTG unless contraindicated

CODE STEMI

- 1 Identify nearest PCI capable Open Cath Lab
- 2 Notify ED of a Code STEMI
- 3 Administer aspirin or document reason not administered
- 4 Establish IV
- 5 NTG, MS, fentanyl considered
- 6 Consider 2nd IV
- 7 Serial 12 Lead EKGs
- 8 Limit scene time < 15 min, Code Transport

OTHER CONSIDERATIONS

- Ensure pre-hospital EKGs are submitted to ED Physician
- NTG is contraindicated in male or female patients who have recently taken any of the following: sildenafil (Viagra, Revatio), vardenafil (Levitra, Staxyn), tadalafil (Cialis, Adcirca), and riociguat (Adempas)

****Document all checklist action items executed in ePCR****

Chest Pain Checklist ©



CHF / Pulmonary Edema



START - IMMEDIATE ACTION ITEMS

- 1 Consider CPAP (Unless BP < 90)
- 2 Establish IV
- 3 Administer NTG unless contraindicated q 3-5 min prn
- 4 Interpret and Monitor EtCO₂
- 5 12 Lead EKG

KEY CONSIDERATIONS

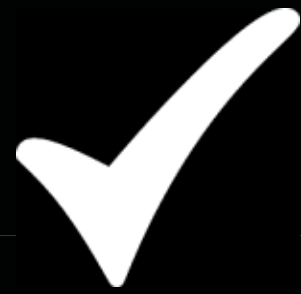
- Aspirin w/ chest pain
- Consider early intubation
- If hypotensive (cardiogenic shock) initiate IVFs and/or vasopressors
- Consider morphine 2-20mg IV (fentanyl if allergic) 50-100mcg
- Low dose Lasix if signs of total body fluid overload 20-40mg IV
- Notify ED
 - CPAP
 - STEMI
 - Intubation

OTHER CONSIDERATIONS

- With CPAP use lowest possible pressure
- Contraindications to CPAP include pneumothorax, respiratory arrest or inadequate respirations, unconscious or inability to protect airway, shock or BP<90, penetrating chest trauma, persistent nausea or emesis, facial trauma or abnormalities, or recent GI surgery or bleeding
- NTG is contraindicated in male or female patients who have recently taken any of the following: sildenafil (Viagra, Revatio), vardenafil (Levitra, Staxyn), tadalafil (Cialis, Adcirca), and riociguat (Adempas)

Document all checklist action items executed in ePCR

COPD



START - IMMEDIATE ACTION ITEMS

- 1 Administer Albuterol 5mg/Atrovent 0.5mg nebulizer
- 2 Interpret and monitor EtCO₂
- 3 Consider CPAP (Unless BP<90)
- 4 Administer Methylprednisolone 125mg IV/IM

KEY CONSIDERATIONS

- Repeat Albuterol 5mg nebulizer
 - 12 Lead EKG
 - Consider intubation
 - Notify ED
- CPAP

Intubation

Green: Normal
Red: Abnormal

OTHER CONSIDERATIONS

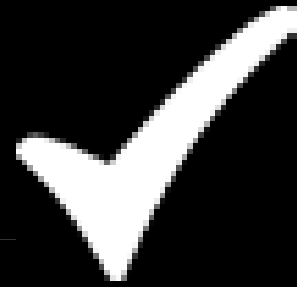
- With CPAP use lowest possible pressure
- Contraindications to CPAP include pneumothorax, respiratory arrest or inadequate respirations, unconscious or inability to protect airway, shock or BP<90, penetrating chest trauma, persistent nausea or emesis, facial trauma or abnormalities, or recent GI surgery or bleeding
- EtCO₂ should be monitored for trending and waveform indicators and documented (Ex: Bronchoconstriction)

****Document all checklist action items executed in ePCR****

COPD Checklist ©



Seizure



START - IMMEDIATE ACTION ITEMS

- 1 Assess blood glucose level
 - 2 Benzodiazepine best available route
 - 3 Diazepam SIVP, IO 2-10mg, Max 20mg
(Ped 0.2mg/kg SIVP, 0.5mg/kg PR)
- Lorazepam SIVP, IM, IO 1-2mg, Max 6mg
(Ped 0.05mg/kg, Max 2mg)
- Midazolam 1-2mg IV, IO, Max 5mg
(Ped 0.1mg/kg, Max 2mg)
(Intranasal 0.2mg/kg, Max 10mg)

KEY CONSIDERATIONS

- EtCO₂ and SaO₂
- Status and 1st time seizures require paramedic level assessment
- Consider
 - Febrile seizure/fever protocol
 - Eclampsia (Mag 4G/250cc over 20 min)
 - Overdose/poisoning

OTHER CONSIDERATIONS

- Use medication calculators for pediatric medications - check twice
- Document duration of seizure and when it stopped
- Benzodiazepines should not be mixed with other agents
- Administer through proximal end of IV tubing and flush well
- Status Seizure: Witnessed seizure activity continuing >10 minutes or multiple seizures that reoccur without return to full mental capacity

Document all checklist action items executed in ePCR

Seizure Checklist ©



Sepsis



START-IMMEDIATE ACTION ITEMS

- 1 Assess for Sepsis Criteria and determine if Code Sepsis
- 2 EtCO₂ measurement
- 3 Initiate fluid resuscitation
- 4 Contact medical control for all patients who meet Code Sepsis
- 5 If Code Sepsis, limit scene time and Code Transport

KEY CONSIDERATIONS

- Reassess mental status, circulatory and pulmonary function after every 500cc bolus
- Consider vasopressors after fluid resuscitation of 20ml/kg
- 12 Lead EKG
- Consider intubation
- Identify potential source of sepsis

OTHER CONSIDERATIONS

Sepsis Criteria:

Suspected infection plus 2 or more of the following;

HR>90

RR>20

Fever >38.0c (100.4f) or <36.0c (96.8f)

Code Sepsis:

Meets above Sepsis Criteria plus one of the following;

Hypotension

Altered LOC

EtCO₂ ≤ 25 / Lactate ≥ 2

Beta Blockers may mask vital signs

DOCUMENTATION

Primary condition

Select fever/infection

Flow chart, Select “Other”, Select “Sepsis Notification” and also document Sepsis in narrative section

****Document all checklist action items executed in ePCR****

Sepsis Checklist[©]



Stroke



START-IMMEDIATE ACTION ITEMS

- 1 Assess F.A.S.T.
- 2 Check Blood Sugar
- 3 Announce Code Stroke
- 4 Establish Time Last Seen Normal
- 5 Limit Scene Time < 15 Min

KEY CONSIDERATIONS

- Establish IV Enroute
- Determine Destination
 - 0.0-3.5 Hrs=Code-Closest
 - OR
 - 3.5-6.0 Hrs=Code-Closest+Contact Physician
 - OR
 - 6.0+ Hrs=Non Code-Closest
- Notify ED of Code Stroke

OTHER CONSIDERATIONS

- Do not delay transport to establish IV
- All stroke patients should be transported ALS, unless transport will be delayed
- It is important to accurately obtain time of onset

****Document all checklist action items
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Stroke Checklist ©



Syncope



START - IMMEDIATE ACTION ITEMS

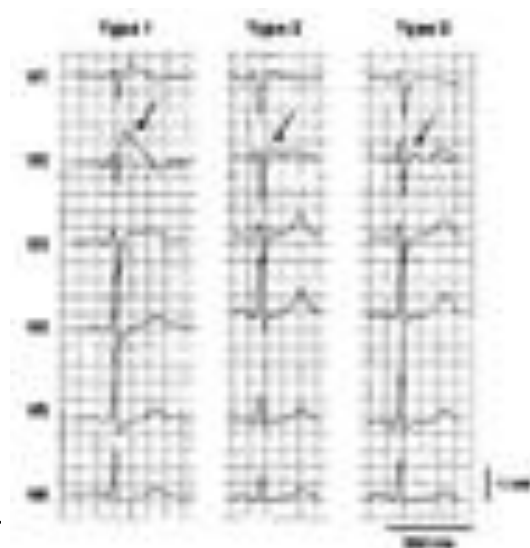
- 1 Thorough history and physical exam
- 2 Blood glucose check
- 3 12 Lead EKG
- 4 EtCO₂
- 5 Non-transport requires physician contact

KEY CONSIDERATIONS

ALS transport if any evidence of the following

- EtCO₂ ≤ 31
 - History concerning for life threatening cause of syncope
 - Hypotension or other abnormal vitals
 - Family history of sudden death
 - Congenital heart conditions/murmur/aortic stenosis
 - History of CHF/CAD
 - Pregnancy
- Concerning EKG findings
- Arrhythmias/BBB/bradycardias
 - LVH
 - Preexcitation
 - Prolonged QT
 - Brugada changes
 - Signs of prior MI or ischemia

Brugada



OTHER CONSIDERATIONS

- Syncope is a common cause of EMS activation as well as ED use. It is a condition that can be confused with other distinct conditions such as seizures, vertigo or states of altered mental status
- Etiologies range from the benign to life threatening
- Pre-syncope has the same risk as syncope for adverse outcomes

****Document all checklist action items executed in ePCR****

Syncope Checklist ©



Trauma



START - IMMEDIATE ACTION ITEMS

- 1 Request 10 Minute Timer, Scene Time < 10 min
- 2 Control airway/breathing/and life threatening bleeding as needed
- 3 Rapid trauma exam and history incl anticoagulant use
- 4 Expose (remove clothing), but keep patient WARM
- 5 EtCO₂ target 35-40, if herniation is imminent 30-35
- 6 Transport to appropriate level Trauma Ctr, w/in 30 min

KEY CONSIDERATIONS

1. Measure vital signs and level of consciousness

- GCS \leq 13
- Systolic BP < 90
- Respirations < 10 or > 29 breaths/min (< 20 in infant < 1 year)

2. Assess anatomy of injury

- Penetrating injuries to head, neck, torso, exts above elbow/knee
- Crushed, degloved, mangled, or pulseless extremity
- Chest wall instability
- $2 \geq$ long-bone fractures, skull fracture, pelvic fracture
- Amputation above wrist or ankle
- Paralysis

3. Assess mechanism of injury

- Adults >20 ft fall (one story=10 ft)
- Children >10 ft fall or 2x-3x height
- >12" intrusion in compartment
- >18" intrusion any site
- Ejection (partial or complete)
- Death in same compartment
- Struck >20 mph
- Motorcycle crash >20 mph
- Anticoagulants in head injuries
- Pregnancy >20 weeks

4. Assess special patient or system considerations

Older Adults

- Risk of injury/death increases after age 55 years
- SBP <110 may represent shock after age 65
- Low impact mechanisms (ex. ground level falls) may result in severe injury

Children

- High sensitivity for pediatric trauma transport to Harborview

Anticoagulants and bleeding disorders

- Patients with head injury are at high risk for rapid deterioration

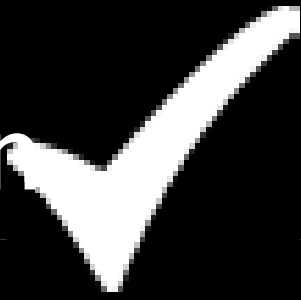
Pregnancy >20 weeks

EMS provider judgment

Trauma Checklist ©



Cardioversion



START - IMMEDIATE ACTION ITEMS

- 1 Confirm indication - hypotension, poor perfusion, active chest pain, altered mental status and/or shock
- 2 Palpate pulse
- 3 Select energy
- 4 Sync - ensure R wave capture
- 5 Clear
- 6 Cardiovert

Energy Levels	
Afib	120-200J
Monophasic VT	100J
SVT/Flutter	50-100J
Polymorphic VT	200J
Ped Dose	0.5-1J/Kg
Max Dose	2J/Kg

KEY CONSIDERATIONS

- Establish IV
- Sedation and analgesia, if time allows
- Prepare for decompensation and defibrillation
- Sync not necessary for wide complex irregular rhythm

OTHER CONSIDERATIONS

Sedation - midazolam 1-2mg IV, IO, Max 5mg
(Ped 0.1mg/kg, Max 2mg)

Analgesia - Fentanyl 25-200mcg IV
(Ped 1mg/kg, Max 100mcg) recommended

Adult combo patches to be used on all
pediatric patients > 15kg

****Document all checklist action items
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Cardioversion Checklist[©]



RSI



START-IMMEDIATE ACTION ITEMS

- 1 Preoxygenate (NRB and NC at 15 lpm)
- 2 Evaluate airway and verbalize back-up plan
- 3 Set up suction and airway adjuncts
- 4 Optimize patient position
- 5 Etomidate 0.3mg/kg (Severe Shock 0.15mg/kg)
- 6 Succinylcholine 1.5mg/kg
- 7 Verify EtCO₂ numeric and waveform
- 8 Check cuff and note number at teeth
- 9 Check BP following intubation

KEY CONSIDERATIONS

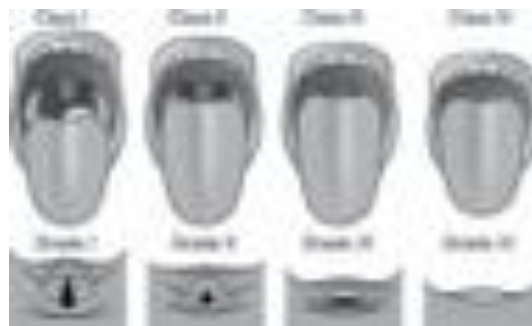
- Monitor and document SaO₂ and EtCO₂ pre/during/post intubation
- Do not ventilate post induction unless SpO₂ < 93%
- Post intubation sedation/analgesia
- Failed airway:
 - SpO₂ < 90% after 1 attempt with failure to oxygenate/ventilate
 - 3 failed ETT attempts

OTHER CONSIDERATIONS

- Etomidate contraindications: Age < 2 years and pediatrics with septic shock
- Succinylcholine contraindications: Known or suspected rhabdomyolysis, skeletal muscle myopathies, hypersensitivity, history of malignant hyperthermia, major burns or crush injury > 24 hours, long term immobilization (ex: spinal cord injury or debilitating stroke)
- Assure minute ventilation is adequately increased to compensate for severe acidosis (Ex: ASA overdose, DKA) or CO₂ retention



Sternal Notch
Flat vs Raised



****Document all checklist
action items
executed in ePCR****

RSI Checklist[©]



Downgrade

CONSIDERATIONS

- Dispatched ALS provider will remain w patient until arrival of another EMS provider whose level of training is commiserate with level of care as determined by the ALS provider
- ALS providers shall perform full assessment and exam. ALS assessment will be checked on the ePCR
- Assessment and decision to transfer care to lower level service will be documented on the EPCR
- Any abnormal vital signs are addressed may include as indicated: HR, RR, BP, O₂ sat, EtCO₂, Blood Sugar (high or low), and Temp
- If EKG is done, document interpretation on ePCR and send a copy with transporting unit
- Consider contacting medical control
- Paramedic is responsible for the appropriateness of care
- There is no reasonable expectation the patient will require a higher level of care
- Law Enforcement has NO authority in transport decisions

- If Law Enforcement elects to take a patient into custody they must be informed they are responsible for all liability and system consequences
- Patients requiring NRB to maintain $SaO_2 > 94\%$ = high probability for respiratory failure

Reference SCEMS Protocols:

- Patient Care Responsibility
- Transfer of Care Responsibility and Delegation

Document all checklist action items executed in ePCR

Downgrade



Non-Transport

CRITERIA

Assessment of Patient:

- Oriented to Person–Place–Time–Situation
- Patient is of age of consent or meets state req for a minor's ability to consent
- Full patient evaluation/exam performed
- If applicable, perform blood sugar check, 12 Lead EKG and/or EtCO₂

Ability to Refuse:

- No evidence of head injury
- No altered level of consciousness
- No evidence of Hypoglycemia
- No evidence of Hypoxia
- No evidence of impairment from alcohol or drug ingestion by exam or history
- No evidence of suicidal tendencies or obvious psychiatric disorders
- No evidence of a communication barrier

Contact Outside Resources as Necessary:

- Consider contacting Law Enforcement
- Consider contacting Medical Control document physician's name
- Consider having Medical Control speak with the patient

Patient Advised (If applicable):

- Medical treatment and transport needed
- Further harm, death, or disability could result without medical treatment/transport
- Patient advised to call 911 if they change their mind to accept care or their condition changes in any way
- Of any abnormal vitals (HR, BP, RR, Temp, O₂ sat, EtCO₂), exam findings, or diagnostics
- Potential problems of blood sugar <80 or >300
- Pre-hospital EKG findings are preliminary and final interpretation is required by a physician

Refusal form signed and witnessed

Age of Consent Definitions:

- 18 years of age for general medical conditions
- 13 years of age for pregnancy/stds/mental health/substance abuse treatment
- Any age for minors married to an adult or emancipated minor
- All pregnant minors are emancipated

****Document all checklist action items executed in ePCR****

Non-Transport



Free Standing ED

EXCLUSIONARY CRITERIA

- Heart Rate >150
- Systolic BP <90 or >180
- SaO₂ <95%
- Respiratory Rate >24
- Temp>100 F (38C) in < 3 month old
- Altered Level of Consciousness (unresolved)
- Trauma: Patients on backboards
- Fracture: Open fracture, suspected hip fractures, and extremity fracture with neurovascular compromise
- Stroke
- Sepsis/Severe infection
- Vascular emergency
- Abdominal pain in elderly
- Blood in stool or emesis (GI related)
- Potential cardiac chest pain
- Overdose (unresolved)
- Seizure
- Syncope

NOTES





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