Northeast Ohio Regional EMS Protocol

COVID-19 Response Protocols and Standard of Care Exceptions

06.10.2021

A Product of Collaboration









The most current version of this protocol can be found at

http://hospital.cecoms.cuyahogacounty.us/EMSProtocol.aspx

COVID-19 EMS Protocol Supplement

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COVID-19 PPE and EXPOSURE

PPE REQUIREMENTS			
PPE Requirements	PPE Requirements		
suspected or known COVID-19 patients	WITH Aerosol Generating Procedures		
Such as Breathing Treatments, Suction, CPAP, Airway Management, CPA			
 Surgical mask on patient during care where available Surgical mask minimum on all providers, N95 preferred. Gown preferred where available, follow departmental policy Gloves 	 Surgical mask on patient when not actively managing airway N95 or greater level respiratory protection Gown where available Gloves 		
Eye Protection	Eye Protection		
DDE KEY DOINTS			

- Follow CDC guidelines for proper donning / doffing of PPE PPE requirements may change frequently, check for updates
- Surgical masks are to be used and reused throughout a shift unless soiled, damaged, or exposed to person of concern (ex: coughing, aerosol generating procedure / treatment).
- All providers are to wear at minimal a surgical mask, gloves, and eye protection on all patient encounters. N95 Preferred.
- If your PPE supply allows, all patients are to arrive at the hospitals wearing a surgical mask. If limited surgical mask, prioritize mask placement on patients with fever, cough, dyspnea, or other flu like symptoms discussed in prior updates. Receiving EDs may want to place a mask on patients when then arrive.
- N95 masks can be used by a single EMS provider until soiled, damaged, or exposed to a person of concern. This could mean multiple shifts use for N95 mask. Consider placing initials on masks that are being reused and storing in a paper bag to allow moisture in a used mask to dissipate.
- Departments using CAPR / PAPRs please follow your department policies for use and cleaning.
- If gowns are not available and concerning droplet exposure occurred, change into a clean uniform, remembering to wash hands after touching soiled clothing.
- Higher level of respiratory protection more than N95 include N99 mask, N100 mask, PAPR / CAPR, or full or partial facemasks with N95 or greater filters.
- Remove and discard (if not being re-used) All PPE, including gloves after patient drop off and wash hands or disinfect in patient room. Disinfect and reuse durable eye protection, consider reuse of mask per current departmental practice.
- Re-don PPE prior to decontamination of equipment.
- Follow Medical Direction or departmental directives for reuse of scarce equipment.
- Patient surgical masks may be replaced at the receiving hospital, 1:1 exchange for other PPE may vary by facility.
- Cloth masks are not for use during patient care or decon activities.

EXPOSURE Exposure to COVID-19 Positive Patient WITH Exposure to COVID-19 Positive Patient WITHOUT **Appropriate PPE** Appropriate PPE Safe to return to work without restrictions Notify the receiving hospital's Infection Control Self - monitor for symptoms Department and follow departmental exposure policies The provider is to complete an exposure form If symptoms develop during the shift, the provider should wear a surgical mask, place themselves in self-Self – monitor for symptoms following departmental isolation and notify the receiving hospital's Infection policy Control Department or follow departmental policy If symptoms develop during the shift, the provider should wear a surgical mask, place themselves in selfisolation

EXPOSURE KEY POINTS

- Self-Monitoring for symptoms includes taking temperature at least twice per day
- Self-Monitoring programs are being initiated by many departments to assure staff are well and not reporting to work with possible symptoms. Departments may decide to use these for routine employee monitoring or just after possible exposure.

ADDITIONAL PERSONAL PROTECTION RECCOMENDATIONS

- During regional outbreaks it is recommended to wear surgical masks if available at station to prevent provider to provider contamination.
- Maintain social distancing of at least 6' while at station and while sleeping.
- Clean and disinfect common areas frequently.
- Wash hands frequently.
- Self-monitor per departmental policy including temperature.
- Outside of patient care, it is recommended that surgical masks still be worn while on duty to help limit exposure and spread of the SARS-CoV-2 virus. It should be up to the individual departments to determine policy and exceptions.

EMSPROTOCOL

Special Statement on Face Mask Usage

June 1st, 2021

- **NOTE**: Local officials and departmental/agency leadership may establish mask use guidelines for their communities, municipal buildings, and personnel. These local guidelines supersede this document in all mask related matters other than direct patient care activities.
- If authorized, when in quarters or activities not involving patient care, **fully vaccinated personnel** may choose to not wear a mask.
- o Personnel who are not vaccinated should still follow departmental and public health recommendations regarding mask use, and in general, still wear a mask in quarters.
- o Vaccinated personnel may still choose to still wear a mask in quarters or during activities not involving patient care. All personnel should understand there are many reasons why someone will still continue to wear a mask and support that individual's decision.
- During patient care activities (on scene, in ambulance, at hospital), personnel should still continue to wear a mask. All prior PPE recommendations for mask use remain in effect during patient care activities.
- All other previous COVID-19 patient care exceptions are still in effect.
- Please keep in mind that there is still community spread of SARS-CoV-2 and personnel are still at risk of contracting disease. Vaccinated personnel are at much lower risk of severe disease. If you develop symptoms of COVID-19, please follow departmental policy regarding testing and notification.

COVID-19 RESPIRATORY DISTRESS and AIRWAY

Follow Field Termination of **Resuscitation Protocol for Patients** in Cardiac Arrest. Patients without **ROSC Should not be Transported** for all Health Care Providers Safety

UNIVERSAL PATIENT CARE PROTOCOL

PPE Minimum Surgical Mask / Gown / Gloves / Eye Protection

Surgical Mask on Patient

12 LEAD EKG PROCEDURE

1ST Contact to EKG and Transmission < 10 Min

IV / IO PROCEDURE

This protocol is intended to be used in place of the standard Adult Respiratory Distress protocol and Adult Airway protocol for patients who present with viral symptoms

Mild - Symptoms

Refer to COVID-19 TRANSPORT SUPPLEMENT PROTOCOL

OXYGEN By Nasal Cannula Under Surgical Mask if Transported

а

Moderate / Severe Distress

CAPNOGRAPHY PROCEDURE

OXYGEN By Least Aerosol Producing Method to Maintain SpO₂ - NC / NRB

Consider and Prioritize Injectable **Bronchodilators Over Inhaled**

EPINEPHrine (ADRENALINE) 0.3 - 0.5 mg IM

Consider

MAGNESIUM SULFATE 2 Grams IV Drip over 20 minutes

> If > 50 Years or CAD Use MAGNESIUM SULFATE First -Add Epinephrine if Unimproved 0.15 mg IM May Repeat Every 5 min

methylPREDNISolone (SOLU - MEDROL) 125 mg IV / IO

Only for Use in Cases Where Underlying COPD Or Asthma Are Likely Being Exacerbated by The Virus

Use the Following Only in Extremis and Not Responding to Above Treatments

ENHANCED PPE Minimum PPE PLUS N95 or Higher-Level Protection REQUIRED

Obtain and Assist with Administration of Patients MDI Albuterol (Proventil) if Available - Preferred ALL PROVIDERS Administer 4 Puffs **May Repeat**

> Treat with aerosol(s) **DUONEB** (ALBUTEROL / IPRATROPIUM)

Give in Location Other Than Ambulance if Able Without Risk to Others

CPAP PROCEDURE

Only If Refractory **Hypoxemia** / Not Responding to Basic Oxygenation **Methods and Medications Above** Use Viral Filter On CPAP if Available

Requires AIRWAY Management

CAPNOGRAPHY PROCEDURE

ENHANCED PPE Minimum PPE PLUS N95 or **Higher-Level Protection REQUIRED**

BASIC MANUVERS FIRST

Open Airway Nasal / Oral Airway Bag-Valve-Mask

If Patient Spontaneously Breathing Place NRB on Patient While Preparing to Manage Airway

If Not Spontaneously Breathing or **Insufficient Breathing**

BVM With 2 Hand Mask Seal to Minimize Leakage Use Viral Filter on BVM Where Available Move Quickly to Airway Placement

Consider Sedation prior to Advanced Airway Placement as per Standard Adult Airway **Management Protocol**

Extraglottic (BIAD) **AIRWAY Device**

- No Medications Down Extraglottic (BIAD) Airway
 - EMT Use in Pulseless & Apneic Patient Only **Esophageal Disease**
 - Use the Following Only in **Extremis and Not Responding** to Above Treatments

Consider RSI Protocol APPROVED DEPARTMENTS ONLY

INTUBATION PROCEDURE

Max 2 Intubation Attempts **AEMT Apneic Patient Only** Document Failed Attempt(s)

TRANSPORT to appropriate facility CONTACT receiving facility with EARLY NOTIFICATION of potential COVID-19 case AND VERIFY HOSPITAL ARRIVAL / ACCESS PROCESS before taking patient inside CONSULT Medical Direction where indicated APPROPRIATE transfer of care

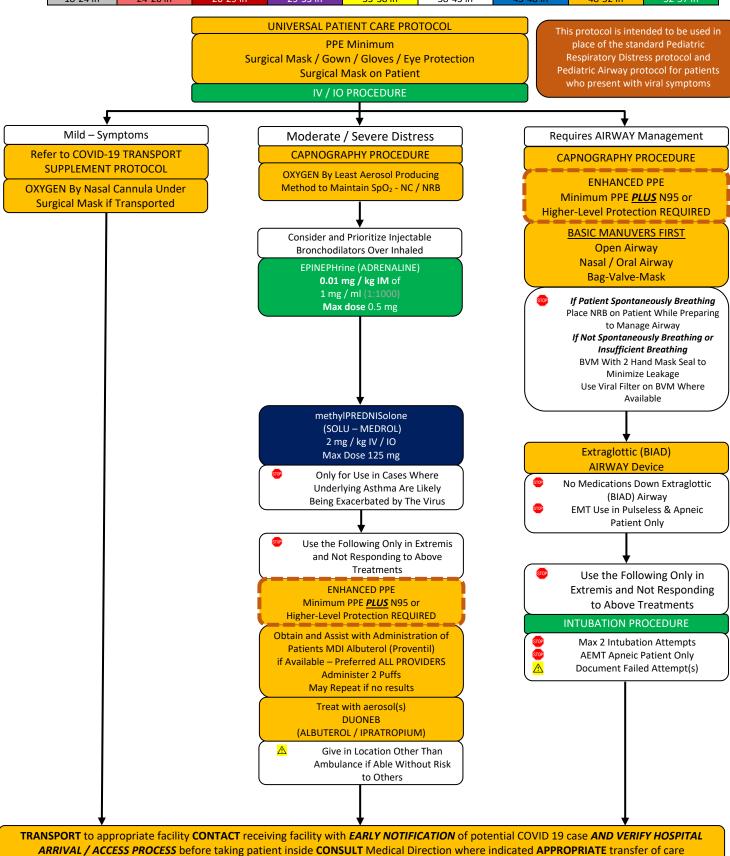
EMT Intervention

AEMT Intervention

PARAMEDIC Intervention

Online Medical Control

COVID-19 RESPIRATORY DISTRESS and AIRWAY 10-11 kg 12-14 kg 15-18 kg 3-5 kg 30-36 kg 6-11 lbs 13-15 lbs 18-20 lbs 22-24 lbs 26-31 lbs 33-37 lbs 42-51 lbs 53-64 lbs 66-81 lbs 18-24 in 24-26 in 26-29 in 29-33 in 33-38 in 38-43 in 43-48 in 48-52 in 52-57 in



EMT Intervention

AEMT Intervention

PARAMEDIC Intervention

Online Medical Control

EMSPROTOCOL

COVID-19 RESPIRATORY DISTRESS

History	SIGNS AND SYMPTOMS	DIFFERENTIAL DIAGNOSIS
Flu-like Illness	 Fever greater than 100.4 F Dyspnea Upper respiratory infection Cough Chills / Body Aches Weakness Diarrhea, plus one of the above 	 Cancer / tumors / lymphoma Medication or drug reaction Hyperthyroidism Heat related emergency Meningitis Pneumonia Influenza A / B or RSV
COVID-19 TREATMENT POINTS		

General Management

- If your PPE supply allows, all patients are to arrive at the hospitals wearing a surgical mask. If limited surgical mask, prioritize mask placement on patients with fever, cough, dyspnea, or other flu like symptoms discussed in prior updates. Receiving EDs may want to place a mask on patients when then arrive.
- Known of suspected COVID-19 patients should be transported to a full-service hospital with ICU capabilities.
- In cases failing to respond to standard oxygenation techniques consider positioning patient on their side or prone to improve oxygen saturation.

Airway Management

- When high risk droplet procedures are required, the provider is recommended to wear a minimum of eye protection, gown, gloves and a N95. This may include intubation, CPAP, suction, aerosol treatments or care management of symptomatic tracheostomy patient.
- If BVM management of patient is required, use 2 hand mask seal and gentle reduced volume ventilation to help prevent aerosolization of virus
- If a patient has an unstable airway, don PPE as described above and place an advanced airway. An extraglottic airway creates less exposure to aerosols / droplets and is preferred. Intubation is permitted as a backup. Consider placing a towel around a properly secured airway to help prevent sprayed droplets.
- Video laryngoscopy is preferred to help assure distance from the patient during intubation when it is required.
- Do not use delivery of high flow oxygen via nasal cannula during intubation procedure in COVID-19 cases.
- In-line HEPA filters, where available, should be utilized during ventilation of patients with ETT or supraglottic airway. Use with CPAP or nebulized treatments can vary with product. If using in-line sampling capnography as well, make sure the HEPA filter is placed closest to the patient and capnography sampling connector is after the HEPA filter.

Oxygen Delivery

Place oxygen delivery devices (nasal cannulas / non-rebreathers) under surgical mask to help prevent aerosolization of virus, particularly if
the patient is coughing.

Inhaled Medications

- If the patient has a metered dose inhaler, make sure this goes with the patient if transported. EMS may utilize patients MDI in place of standard aerosol treatments to help minimize risk of these procedures in these patients.
- If nebulized treatments must be given, attempt to give in location other than the ambulance, but also nowhere that will expose others.

 Assure receiving facility is aware of this in EMS to Hospital report.
- Consider the use of IM epinephrine or IV magnesium per standard respiratory distress protocols for severe cases. This is indicated earlier and for milder symptoms in these cases to help minimize the risk associated with nebulized treatments.

Cardiac Arrest

• In the absence of ROSC, follow termination of resuscitation guidelines.

Transfer of Care Management

• To limit exposure to others in common areas, discontinue all aerosol treatments / CPAP / BVM ventilation without HEPA filter immediately prior to entering ED and resume immediately in the patient's room with the door closed.

GENERAL KEY POINTS

- Status asthmaticus severe prolonged asthma attack unresponsive to therapy life threatening!
- If the patient is over 50 years of age, has a history of cardiac disease, or if the patient's heart rate is >120 EPINEPHrine (Adrenaline) may precipitate cardiac ischemia.
- Monitor pulse oximetry continuously during treatment and transport.
- A silent chest in respiratory distress is a pre respiratory arrest sign.
- Be alert for respiratory depression in COPD patients on prolonged high flow oxygen administration.
- DO NOT withhold oxygen from hypoxic patients.
- If Albuterol (Proventil) and / or Ipratropium (Atrovent) is given, monitor the patient's cardiac rhythm.
- Assure enough expiration time when ventilating COPD or asthma patients to prevent breath stacking and Co2 elimination.
- Albuterol (Proventil) and Ipratropium (Atrovent) can be given down an ETT or Tracheotomy during ventilation if there is
 evidence of bronchoconstriction.
- EtCo2 measurement is mandatory with all methods of intubation. Document results of SpO₂.
- Limit intubation attempts to 2 per patient max.
- If unable to intubate, continue BVM ventilations, transport rapidly, and notify receiving hospital early.
- Do not assume hyperventilation is psychogenic use oxygen, not a paper bag.
- Continuous pulse oximetry should be utilized in all patients with an inadequate respiratory function.
- Consider c-collar to help maintain airway placement for all managed airway patients.
- Consider the use of intubation aids such as a bougie or video laryngoscope to facilitate intubation.
- Extraglottic airway device / BIAD (Blind Insertion Airway Device) Examples (not limited to); King Airway, LMA, Combitube, iGel

COVID-19 TRANSPORT

Known or suspected COVID-19 Patient

One or more viral symptoms present.

- Fever
- Cough
- Nasal / Chest Congestion
- Sore Throat
- Body Aches
- Dyspnea

Provider and Patient PPE for droplet precautions per most current guidelines

Limit number of providers with patient contact, only as many as required for indicated interventions

UNIVERSAL PATIENT CARE PROTOCOL

Conduct Patient Assessment - EMS Taken Vitals

Jnstable - TRANSPORT

Subjective - CALL

Stable for NO TRANSPORT

Vital Signs - All

- SBP > 100
- HR < 110
- Resp < 22
- No decreased LOC
- Spo2 > 94 RA

Patient Medical History - All

- Age < 60 > 3 years
- Not ESRD on dialysis
- No CAD/HF
- No lung or heart disease
- Not immunocompromised
- No History of HTN

Determine Suitability for Home Care

- Appropriate Care Givers are available (if needed)
- There is separate space for the patient to recover without sharing with others
- The patient has access to food, water, and other necessities
- There are no household members with high-risk history (Noted above)

Release without transport to care of self with standard non-transport release if patient consents to non-transport. Contact Medical Control only if the patient does not consent. Medical Control contact not required if within above criteria.

Provide patient resources for hotlines, testing, and / or telemedicine.

Complete thorough PCR regarding assessment and instructions given.

Vital Signs - Any

- SBP < 100
- HR > 110
- Resp > 22
- Decreased LOC
- Spo2 < 94 RA

Patient Complaint - *Any*Chest Pain, Shortness of breath, or Syncope

Patient Medical History - Any

- Age > 60 < 3
- ESRD on dialysis
- Lung or heart disease
- Immunocompromised
- History HTN/CAD/HF

Medical history alone is subjective, call Hospital prior to transport to discuss transport necessity

ALS ASSESSMENT (WHERE AVAILABLE)

Minimize aerosol or droplet producing procedures unless required such as CPAP and aerosol treatments

Obtain phone numbers for key family / caregivers and provide to receiving Hospital as visitation / access to patient likely to be restricted. Give to receiving facility

TRANSPORT to appropriate facility

CONTACT receiving facility as early as possible to indicate a person of interest for COVID-19.

Follow Hospital instructions for access to Hospital once at destination.

CONSULT Medical Direction where indicated

Remove PPE with caution following established doffing techniques and discard appropriately.

Through decontamination for ambulance and equipment following current disinfection standards.

EMT Intervention

AEMT Intervention

PARAMEDIC Intervention

MED CONTROL Consult

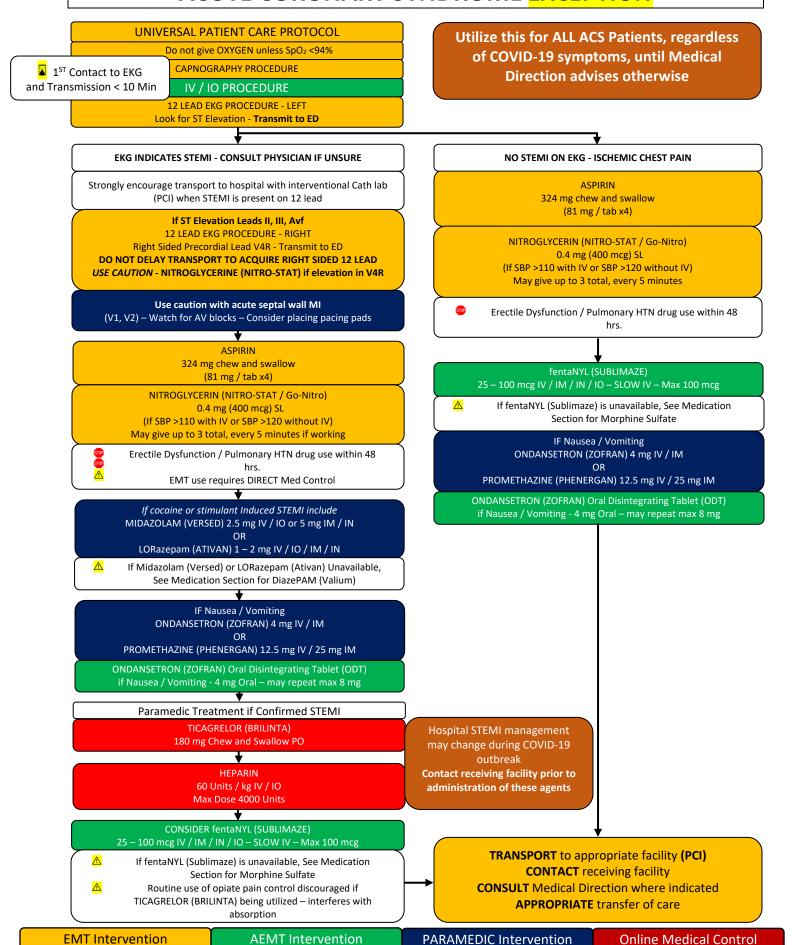
COVID-19 TRANSPORT

History	SIGNS AND SYMPTOMS	DIFFERENTIAL DIAGNOSIS
 Flu-like Illness 	 Fever greater than 	Cancer / tumors /
	100.4 F	lymphoma
	Dyspnea	 Medication or
	Upper respiratory	drug reaction
	infection	 Hyperthyroidism
	Cough	 Heat related
	Chills	emergency
	Weakness	Meningitis
	Body Aches	Pneumonia
	 Diarrhea, plus one of 	 Influenza A/B or
	the above	RSV

KEY POINTS

- Patients must be transported with required PPE outlined in the COVID-19 PPE and Exposure protocol
- If a patient is not transported from a location other than home, discourage the use of public transportation.
- Turn on vent fan and HVAC to create negative pressure in ambulance during transport.
- Please do not enter the Emergency Department with a suspected COVID-19 patient until you
 have verified the ED is ready to receive the patient. This usually involves clearing hallways
 of other personnel/patients, preparing isolation rooms, and closing other patient's doors.
- Consider finishing or halting aerosol producing treatments during transition from ambulance to the Emergency Department.
- If patient is transported, obtain phone numbers for family and / or caregivers if applicable as
 the visitation of the patient is likely to be restricted at the hospital. Give this information to
 the receiving facility.
- For calls in apartment buildings, multi-family dwellings, or skilled nursing facilities, the
 patient should wait in their residence and public safety providers will meet them there. This
 will allow public safety providers to place a mask on the patient, limiting droplet spread in
 common areas.

ACUTE CORONARY SYNDROME EXCEPTION



ACUTE CORONARY SYNDROME EXCEPTION

HISTORY	SIGNS AND SYMPTOMS	DIFFERENTIAL DIAGNOSIS	
 Age Medications Past medical history (MI, angina, diabetes) Allergies Recent physical exertion Onset Palliation / Provocation Quality (crampy, constant, sharp, dull, etc.) Region / Radiation / Referred Severity (1-10) Time (duration / repetition) 	 CP (pain, pressure, aching, tightness) Location (substernal, epigastric, arm, jaw, neck, shoulder) Radiation of pain Pale, diaphoresis Shortness of breath Nausea, vomiting, dizziness 	 Trauma vs. medical Angina vs. myocardial infarction Pericarditis Pulmonary embolism Asthma / COPD Pneumothorax Aortic dissection or aneurysm GE reflux or hiatal hernia Esophageal spasm Chest wall injury or pain Pleural pain 	

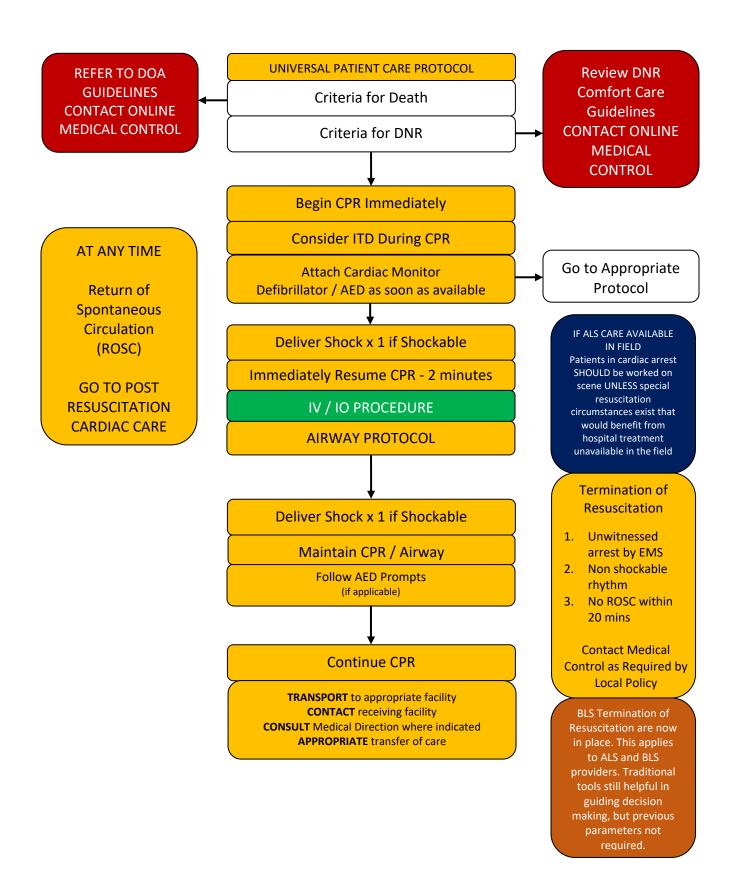
Anti-Platelet and Anti-Coagulant Medications

Clopidogrel (Plavix), Prasugrel (Effient), Ticagrelor (Brilinta), Ticlopidine (Ticlid), Apixaban (Eliquis), Dabigatran (Pradaxa), Edoxaban (Savaysa), Fondaparinux (Arixtra), Rivaroxaban (Xarelto), Warfarin (Coumadin, Jantoven), Betrixaban (Bevyxxa)

KEY POINTS

- During COVID-19 outbreak some hospitals may manage patient in the ED rather than send to the Cath lab. Call before all administrations of
 Ticagrelor (Brilinta) or Heparin as these interventions may interfere with medical management of these cases. This applies to all cases, not
 just suspected or known COVID-19 cases with ACS.
- Make the scene safe: All chest pain patients must have an IV and 12 Lead EKG.
- Exam: Mental Status, Skin, Neck, Lung, Heart, Abdomen, Back, Extremities, Neuro.
- If patient has taken Nitroglycerin (Nitro-stat) without relief, consider potency of the medication.
- If positive ECG changes, establish a second IV while enroute to the hospital.
- Monitor for hypotension after administration of Nitroglycerin (Nitro-stat) or FentaNYL (Sublimaze).
- Nitroglycerin (Nitro-stat) or FentaNYL (Sublimaze) may be repeated per dosing guidelines in the MEDICATIONS SECTION.
- Diabetics / geriatric patients often have atypical pain, vague, or only generalized complaints. Be suspicious of a "silent MI".
- Refer to the <u>BRADYCARDIA PROTOCOL</u> (HR < 60 bpm) or <u>NARROW COMPLEX TACHYCARDIA PROTOCOL</u> (HR > 150 bpm) if indicated.
- If the patient becomes hypotensive from Nitroglycerin (Nitro-stat), FentaNYL (Sublimaze) administration, place the patient in the Trendelenburg position and administer a Normal Saline bolus.
- Be prepared to administer Narcan (Naloxone) if the patient experiences respiratory depression due to FentaNYL (Sublimaze) administration.
- If pulmonary edema is present, refer to the CHF / ACUTE PULMONARY EDEMA PROTOCOL. Consider other causes of chest pain such as aortic aneurysms, pericarditis, esophageal reflux, pneumonia, pneumothorax, costochondritis, pleurisy, pancreatitis, appendicitis, cholecystitis (gallbladder), and pulmonary embolism.
- Aspirin can be administered to a patient on Coumadin (Warfarin) unless the patient's physician has advised them otherwise.
- If the patient took a dose of Aspirin that was less than 324 mg in the last (24) hours, then additional Aspirin can be administered to achieve a therapeutic dose of 324 mg.
- DO NOT administer Nitroglycerin (Nitro-stat) to a patient who took an erectile dysfunction medication; Sildenafil (Viagra), Tadalafil (Cialas), Vardenafil (Levitra), etc. within the last 48 hours due to potential severe hypotension.
- Nitroglycerin (Nitro-stat) can be administered to a patient by EMS if the patient has already taken their own prior to your arrival. Document it if the patient had any changes in their symptoms or a headache after taking their own Nitroglycerin. Nitroglycerin (Nitro-stat) can be administered to a hypertensive patient complaining of chest discomfort without Medical Direction permission.
- Nitroglycerin (Nitro-stat) can be administered without an IV as long as patient has a BP greater than 120 mmHg, without signs of inferior wall MI
- DO NOT treat PVC's with Amiodarone (Cordarone) unless patient develops runs of V-Tach, or has sustained V-tach.
- Pulse oximetry is not an indicator of myocardial perfusion.
- Only administer oxygen if the patient is hypoxic with a SpO₂ of less than 94. Do not withhold oxygen from patients that are short of breath regardless of SpO₂.
- Once applied to a known or suspected ACS patient do not remove a 12 lead EKG, even if the initial EKG is unremarkable. Some devices continue to look for ST segment changes and will alert if there are changes.

CARDIAC ARREST EXCEPTION



EMT Intervention AEMT Intervention PARAMEDIC Intervention Online Medical Control

CARDIAC ARREST **EXCEPTION**

HISTORY	SIGNS AND SYMPTOMS	DIFFERENTIAL DIAGNOSIS
 Events leading to arrest Estimated downtime Past medical history Medications Existence of terminal illness Signs of lividity, rigor mortis DNR 	UnresponsiveApneicPulseless	 Medical vs. trauma V-fib vs. pulseless V-tach Asystole Pulseless electrical activity (PEA)

KEY POINTS

- Termination of Resuscitation with NO transport to the hospital should be performed when there is an unwitnessed arrest, a non-shockable rhythm (either by manual or AED interpretation), and no field ROSC within 20 minutes.
- Patients may always be transported from unsafe scenes to assure provider welfare.
- Contact Medical Control as required by local policy for field termination.
- Always minimize interruptions to chest compressions.
- Consider attachment of ITD to enhance circulation with chest compressions. Remove if there is a return of spontaneous circulation (ROSC).
- Success is based on proper planning and execution. Procedures require space and patient access, make room to work.
- Reassess airway frequently and with every patient move.
- Maternal arrest Treat mother per appropriate protocol with immediate notification to Online Medical Control and rapid transport.
- If the patient converts to another rhythm, refer to the appropriate protocol and treat accordingly.
- Attempt to obtain patient history from family members or bystanders.
 - Estimated down time
 - Medical history
 - Complaints prior to arrest
 - Bystander CPR prior to EMS arrival
 - AED use prior to EMS arrival
- Administer Dextrose only if the patient has a blood glucose level < 70 mg / dl. Dextrose should be administered as soon as hypoglycemia is determined.
- Reassess the patient if the interventions do not produce any changes.
- If indicated, refer to the <u>TERMINATION OF RESUSCIATION EFFORTS POLICY</u>.
- If patient is pregnant and in cardiac arrest, manually manipulate the uterus to the left during CPR

MEDICAL PROCEDURE and PROTOCOL

Vaccine Administration (IM)

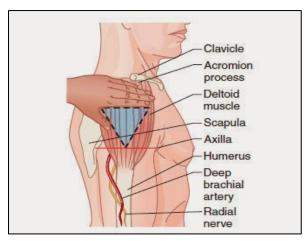
Indications

Patients who are candidates to receive a vaccination via intramuscular injection

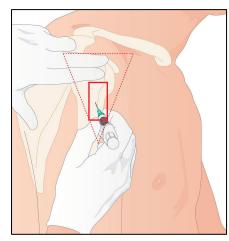
AEMT Intervention
PARAMEDIC Intervention

Procedure

- Prior to administering any vaccinations, study the protocol page for the vaccine being administered, or documentation as provided by Medical Direction. Complete any provided training on how to answer questions and assist patients with responding to pre-vaccination questionnaire.
- 2. Verify that the patient has received pre-vaccination patient information material in a format that they can review prior to vaccination, either on paper or electronically.
- 3. Perform hand hygiene and don appropriate PPE, including face shield and goggles.
- 4. Review documentation and vaccine information with patient, verifying absence of allergies and contraindications.
- 5. Unless otherwise specified, intramuscular vaccines should be administered in the deltoid site. Identify an appropriate site for the injection. Avoid any skin changes such as redness, injury, tattoo, birth marks, or moles. Perform the injection at least one inch away from these if possible.
- 6. Follow the <u>Medication Injections</u> procedure to perform an IM injection. If an intranasal vaccine is later deployed, refer to the Intranasal Vaccine procedure.
- 7. Complete documentation including the medication given, dose, route, lot number, and any other information required by Medical Direction on appropriate forms or in an electronic record as provided by the public health authority.







Preferred location within the deltoid muscle

KEY POINTS

- EMTs may not administer IM injections, including vaccines in these cases.
- Intramuscular injections should be administered with the needle at a 90-degree angle to the skin.
- Unless otherwise specified, it is not necessary to draw back the plunger prior to administration of an intramuscular vaccine.
- A vaccine may require special cold-temperature handling until just before delivery. Follow instructions from the public health authority regarding handling prior to administration.

Intranasal vaccines:

- If an intranasal vaccine is deployed, a specific intranasal vaccine procedure will be developed. Refer to that procedure prior to performing vaccinations.
- This protocol does not apply to intranasal administration of vaccines.



Jon Husted, LL Governor

Thomas J. Stickreth, Director Robert L. Wasoner, Interim Executive Director



To: Ohio EMS providers, EMS agencies, and EMS medical directors

From: Carol A. Cunningham, M.D., FAAEM, FAEMS

State Medical Director

Date: August 21, 2020

RE: Vaccination Administration by Ohio EMS Providers

Vaccination is a critical action to prevent the acquisition and spread of disease. In Ohio, our EMS providers have repeatedly demonstrated that we are a vital sector of the healthcare system.

I am happy to inform you that the State Board of Emergency, Medical, Fire, and Transportation Services (EMFTS Board) passed the following motion on August 19, 2020:

The Board recognizes that EMS certificate holders are permitted to administer vaccinations so long as the route of administration is within the scope of practice and the certificate holder administers the vaccine pursuant to medical direction and training on the specific vaccine, which includes adherence to the recommendations and instructions of the Food and Drug Administration.

As highlighted by the current COVID-19 pandemic, our healthcare system resources are finite. Initiatives that prevent avoidable hospitalizations, including immunization against infectious diseases, enhances the surge capacity of our hospitals. This fall, the influenza season will intersect with the ongoing COVID-19 pandemic. Although Ohio's public health emergency was declared due to the COVID-19 virus, an influenza outbreak would most certainly hamper our healthcare systems' response to the pandemic and decrease hospital bed capacity.

The EMFTS Board's motion will allow all EMS providers to administer the influenza vaccine according to the requirements and parameters stated. If developed, it will also allow EMS providers to administer a COVID-19 vaccine. In the future, our nation may be threatened by a different set of pathogens; however, this action taken by the EMFTS Board has ensured that Ohio EMS will be authorized to participate in the imperative public health mission of vaccination administration.

Thank you for your dedicated service to the State of Ohio and to Ohio EMS. As part of <u>your</u> mission to stay safe and healthy, please get vaccinated!

Additional Services in a Declared Emergency	EMR	EMT	AEMT	PARAMEDIC
In the event of an emergency declared by the governor that affects the public's health, an EMS provider may perform immunizations and administer drugs or dangerous drugs, in relation to the emergency, provided the EMS provider is under physician medical direction and has received appropriate training regarding the administration of such immunizations and/or drugs. (OAC 4765-6-03)	х	х	х	х

HOMEBOUND PROCEDURE and PROTOCOL

Homebound Vaccine Administration

Only for use in conjunction with the local Health Department for the Homebound Patient identified by the Health Department

Purpose

• To provide vaccine access to those who are homebound where traditional delivery processes are not feasible.

AEMT Intervention
During Declared Emergency Only
PARAMEDIC Intervention

Collaboration

- The EMS agency must deliver the vaccine under the direction and in collaboration with the local Health Department.
- The EMS agency Medical Director and the local Health Department Medical Director must authorize the department to deliver the vaccine.
- The local Health Department must provide the vaccine for the EMS agency to deliver.
- The EMS agency must follow all instruction for delivery and storage from the local Health Department.
- The EMS agency must follow all standing orders for the supplied vaccine.

Patient Identification

- The local Health Department will identify homebound patients and summon the EMS agency for vaccine delivery.
- The EMS agency will validate the patients identity prior to documentation and obtain consent.

Documentation

The local Health Department will supply required documentation for each encounter. The EMS agency will
complete all required documentation for the vaccination encounter. A PCR is not necessary unless there is a
vaccination reaction that requires assessment or treatment by the EMS team.

Temperature Regulation

- The local health department will identify temperature regulation required for the suppled vaccine. The EMS agency will be responsible for the maintenance of the required temperature regulation and return of unused vaccine to the local Health Department.
- The EMS agency must complete and return any chain of custody or temperature regulation documentation to the local Health Department.

Vaccine Delivery

• The EMS agency will deliver the vaccine as described in the standing orders using techniques outlined in the vaccine administration procedure. All are included in this document.

Anaphylaxis

EMS providers will be alert for signs of anaphylaxis. The on-scene administration team must have immediate access to the following equipment during the administration as a minimum. Treatment is per standard EMS protocol based on certification level.

- Stethoscope, Blood pressure measurement device, pulse oximeter
- AED or cardiac monitor
- Epinephrine 1mg/ml (1:1000) OR Epi Pens and appropriate administration device(s) and supplies for up to 3 doses
- Oxygen tank, regulator, valve wrench and nasal cannula, non-rebreather, and nebulizer delivery devices
- Albuterol (or Duo-Neb) aerosols
- BVM and BLS airway devices (NPA / OPA's)
- Extraglottic airway device with tube holder

COVID-19 EMS Protocol Supplement Change Log

03.31.2020

Page	Change
1-0	Added orange box in upper right-hand corner regarding following field termination protocols
1-0	Added "Drip" to Magnesium Sulfate administration
3-0	Field termination bullet point added
5-0	Added last bullet point regarding multifamily dwellings and SNF's.
6-0	Changed left column of top chart to "without aerosol generating procedures" to "suspected or known COVID-19 patients"
	Added "where available" to gowns and surgical masks
6-0	Added "CPR" to such as descriptions of with aerosol generating procedures in right column of top chart.
6-0	Added "Remove and discard (if not being re-used) All PPE, including gloves after patient drop off and wash hands"
6-0	Added "Follow Medical Direction or departmental directives for reuse of scarce equipment."
	Added Additional Personal Protection Recommendations chart at bottom of page
6-0	Added "Patient surgical masks may be replaced at the receiving hospital, 1:1 exchange for other PPE may vary by facility"
6-0	Created change log page
6-0	
7-0	

04.03.2020

	**-	
Page	Change	
3-0	Added discontinuation of treatments statement during movement through ED	
3-0	Added transport to hospital with ICU capabilities	
6-0	Clarified "regional" outbreak	
6-0	Added while on duty bullet point	

04.09.2020

Page	Change
1-0	Added cover page with web link to online access
2-0	Added table of contents page
ALL	Re-ordered pages, putting PPE first in order
4-0	Changed verbiage for sedation prior to airway management to match base protocol
6-0	Grouped COVID treatment points by topic
6-0	Added bullet point for BVM gently
6-0	Added bullet point for video laryngoscopy
6-0	Added bullet point for oxygen delivery devices
8-0	Added bullet point regarding HVAC and vent in ambulance
9-0	Added exception for ACS protocol for systems giving prehospital ticagrelor(brilinta) or heparin requires receiving hospital contact
	prior to admin
10-0	Added ACS exception key points page with ticagrelor(brilinta) or heparin administration points
11-0	Added cardiac arrest protocol exception with BLS field termination points
12-0	Added cardiac arrest protocol key points exception with BLS field termination points

04.15.2020

Page	Change
3-0	Added considerations for reuse of masks per departmental policy and reuse of durable eye protection
6-0	Added consideration for the use of a towel over a secured airway to help with droplet mitigation
6-0	Reworded ROSC / field termination bullet point

05.19.2020

Page	Change
3-0	Added bullet point regarding cloth masks during patient care activities
6-0	Added bullet points for prone or lateral positioning during transport
8-0	Added bullet point regarding PPE requirements during transport

07.02.2020

Page	Change
3-0	Added special mask statement to page 4

12.01.2020

Page	Change
14-0	Added EMS Vaccination Protocol
15-0	Added EMS Vaccination Scope of Practice
8-0	Added subjectivity to transport column for medical history

04.20.2021

Page	Change
16-0	Added EMS Homebound Vaccination Protocol
17-23	Added CDC standing orders for vaccines
14-0	Removed EMT admistration of vaccine after consulatation with Ohio DPS EMS

04.20.2021

Page	Change
4-0	Revised Special Mask Statement