Page: 1 of 4

High Consequence Pathogens - COVID-19 Specific

Introduction

- Patients should specifically be asked if he/she has traveled internationally in the past 14days
 - Current high suspicion countries: China, Japan, South Korea, Italy, Iran, Europe
 - Current high risk U.S. locations: Washington state, New York
 - Or ask if close contact with person(s) who have traveled to at risk locations or is being evaluated for potential emerging infectious disease
 - As of March 20, 2020 community transmission was noted in North Carolina (patient testing positive with no travel or known at risk exposure); therefore, travel history is much less important in the screen
- * Differential diagnosis
 - > Influenza
 - Bacteremia/septicemia
- * Transmission occurs via contact with respiratory droplets of infected individuals:
 - Between people who are in close contact with one another
 - $\sim 3 6$ feet for > 10 minutes
 - ➤ COVID-19
 - It may be possible that a person can get COVID-19 by touching contaminated surface or object that has the virus on it and then touching their own mouth, nose, or eyes
 - This is not believed to be the main way the virus spreads
- * Symptoms:
 - > Fever (>100.4°F)
 - Cough/upper respiratory illness symptoms
 - > Difficulty breathing or shortness of breath
- ♣ Persons that should be considered high risk
 - Influenza-like illness = temp > 100.4 (or have taken an antipyretic in past 4-6 hours)
 Plus, one of the following:
 - > Cough
 - Shortness of breath
 - Known exposure to person with COVID-19 within past 14 days
 - > Travel to high risk county or U.S. state
- Consider that at-risk sites of travel may change with time ****

Page: 2 of 4

Basic / Advanced Medical Care

- 1. Screening on scene should take place for ALL patients (medical and trauma)
- EMS personnel should don personal protective equipment (PPE) with any patient with a positive field screen (symptoms and international travel in past 14 days) as soon as identified utilizing standard donning procedures for airborne/droplet precautions
 - A. Eye protection (goggles / face shield)
 - B. Fluid impervious gown
 - C. Gloves
 - D. N-95 mask (surgical mask may be utilized if N-95 mask is not available)
- 3. For CMED EIDS screen positive one provider should don a surgical mask with face shield
 - A. Hand the patient a surgical mask to don
 - B. Perform a Field Screen within 5 minutes to verify EIDS status
 - C. For field screen positive ALL care providers who will be within 6 feet of patient don full PPE
 - D. For field screen negative follow standard PPE guidelines
- 4. Only essential personnel should have any contact with the patient
- 5. First responder personnel should **NOT** have patient contact unless critical intervention / assistance required
- 6. Surgical mask should be placed on any patient with a positive screen for a high consequence pathogen = symptoms + travel (until travel has been removed as a risk)
- 7. Contact operations supervisor as soon as a patient with a positive screen is identified
- 8. Medical Initial Assessment Protocol or Pediatric Initial Assessment Protocol
- 9. Temperature must be assessed on ALL patients
- 10. Care as per appropriate protocol (note advisements in #7 below)
- 11. Avoid the aerosolizing procedures if not distinctly indicated
 - A. Nebulizer treatments, suctioning, high flow nasal cannula, CPAP, SGD, BVM, ETT
 - B. If any aerosolizing procedure is required, PPE as above with an N-95 mask must be utilized
 - C. Avoid attempts at endotracheal intubation
- 12. If supplemental oxygen is required a non-rebreather mask should be utilized
- 13. Limit utilized equipment to only essential equipment required for needed patient care
- 14. With negative screen provide care as per appropriate protocol and transport per patient destination general triage protocol
- 15. During encode notify receiving emergency department of "EIDS positive patient"
- 16. If nebulizer is being utilized, this should be halted and held upon arrival to the emergency department until the patient has been placed in their treatment room
- 17. Use of CPAP must be discussed with the receiving facility prior to arrival and plan for patient transition from ambulance to treatment room clarified prior to arrival
 - A. This may include momentary halting of CPAP during patient movement

Page: 3 of 4

Additional Considerations

- Driver of transporting ambulance should wear PPE as described above when participating in patient care activities (including patient transport & loading)
 - Remove PPE except for N-95 (or surgical mask) and perform hand hygiene prior to entering vehicle cab to prevent contamination of driver's compartment
- **★** CMED will screen at call-taking (CMED will advise "Positive EIDS patient" if positive screen)
 - ➤ It is imperative that field providers also ask screening questions on scene
- * Transport of patient with suspected high consequence pathogen must be reported to Operations Supervisor
 - Must be reported to local public health authorities
 - ➤ Ensure Supervisor and Public health notified of any patient who refuses transport or is pronounced dead on scene (if positive screen for a high consequence pathogen)
- * Extreme care should be utilized in doffing PPE post transport per standard procedure to ensure no contamination from exposure to used PPE
 - > Do not touch outer surface of PPE
 - > Do not remove N-95 mask or eye protection prior to gown/coverall removal
- * No family members or bystanders should be transported in the ambulance
- * Appropriate PPE is required during cleaning / disinfecting of any EMS equipment
 - > Utilize appropriate approved disinfectant cleansing solution
 - > Equipment includes ambulance interior and surfaces exposed to patient contact
- * Following patient care activity utilize standard hand hygiene utilizing soap and water for 30 seconds or alcohol-based hand sanitizer
- * If any personnel exposure occurs Supervisor will perform a risk assessment and notify employee health as soon as indicated following decontamination / cleansing / irrigation of exposure
- * Recommended to wear surgical mask and consider eye protection for any patient with fever; even outside this protocol
- * Negative Pressure in care compartment:
 - For door or window available to separate driver's and care compartment space:
 - Close door/window between driver s and care compartment
 - Operate rear exhaust fan on full
 - For no door or window available to separate driver's and care compartment space:
 - Open outside air vent in driver's compartment and set rear exhaust fan to full
 - Set vehicle ventilation system to non-recirculating to bring in maximum outside air

Page: 4 of 4

* Airborne precautions

- Standard PPE with fit-tested N95 mask (or PAPR respirator) and utilization of a gown, change of gloves after every patient contact, and strict hand washing precautions
- Utilized with Aspergillus, Tuberculosis, Measles (rubeola) Chickenpox (varicellazoster), Smallpox, Influenza, Rhinovirus, Norovirus, and Rotavirus, or zoster (shingles)

* Contact precautions

- Standard PPE with utilization of a gown, change of gloves after every patient contact, and strict hand washing precautions
- Utilized with GI complaints, blood or body fluids, C diff, scabies, wound and skin infections, MRSA
- Clostridium difficile (C. diff) is not inactivated by alcohol-based cleaners and washing with soap and water is indicated

Droplet precautions

- ➤ Standard PPE plus a standard surgical mask for providers who accompany patients in the treatment compartment and a surgical mask or NRB O₂ mask for the patient
- Utilized when Influenza, Meningitis, Mumps, Streptococcal pharyngitis, Pertussis, Adenovirus, Rhinovirus, SARS, and undiagnosed rashes

* All-hazards precautions

- > Standard PPE plus airborne precautions plus contact precautions
- ➤ Utilized during the initial phases of an outbreak when the etiology of the infection is unknown or the causative agent is found to be highly contagious (e.g. COVID19)
- * COVID-19 guide for evaluations of persons under investigation
 - http://www.cdc.gov/coronavirus/2019-nCoC/clinical-criteria.html
- * Follow all operational guidelines for avoiding exposure, reporting exposure, selfmonitoring
 - Be aware that guidelines are constantly in a state of updating