

Continuing Medical Education

Course (number, title, section, etc.)
COVID-19 Test Training

Lecture Instructor
Dr. Davidson

Date Implemented
May 6, 2020

Curriculum Area	
	Airway, Breathing, Circulation, Cardiology, Capnography
X	Medical Emergencies
	Trauma
	OB/GYN, Pediatrics
	Special Patients
	Critical Care
	Patient Assessment
	Pharmacology
	Flight Considerations
	Burn care
	Ventilator support devices
	EMS Instructor
	Operations

Level of Training				
EMR	EMT	AEMT	Medic	Critical Care
	X	X	X	X

Approach	
	Review of Lesson
	Case Review
	Assessment (quiz)

Structure	
X	Lecture
	Group (small) scenarios
	Whole Class participation (labs and clinical rotation)
X	Individual skills

Length/Time Limit	
Didactic	60 minutes
Psychomotor	60 minutes
Assessment	N/A
Total Course	120 minutes

EMS Course Approval Number:	
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The goal of the course is to expand the scope of practice for EMT/AEMT/Paramedic during the COVID-19 crisis to help with community wide testing.

This course will highlight the training required to do nasopharyngeal swab so we can do community testing. This will be driven by the local medical director.

COURSE/LESSON OBJECTIVES	EMS Provider Outcome(s)
<p>BY THE END OF THE LEARNING ACTIVITY THE STUDENT WILL:</p> <ul style="list-style-type: none"> • BE ABLE TO GATHER EQUIPMENT NEEDED FOR TESTING; • VERBALIZE STEPS REQUIRED FOR TESTING INCLUDING PRE AND POST PROCEDURE; • EDUCATE PATIENTS REGARDING THE PROCEDURE AND PARTICIPATION; • DEMONSTRATE PROPER TESTING TECHNIQUE; AND • DEMONSTRATE PROPER HANDLING OF SPECIMEN 	

MATERIALS (Attach copies of materials for instructional use)	PREPARATION/MANAGEMENT
See attached PowerPoint	The presentation was developed by Dr. Jeff Davidson with the additional forms being obtained from the CDC and University Medical Center. The links to videos from YouTube to demonstrate proper testing process.

Instructional Procedures and Concepts

Definitions (as applicable)
CME defined in the SNHD EMS Regulations under 300.321

Lesson	Activities
Nasopharyngeal Swab Collection for Covid-19	Didactic lesson about the collection process for nasopharyngeal swab collection for community wide testing. There will be videos to ensure proper technique and a skills test with proper donning/doffing procedures utilizing CDC guidelines. A mannequin will also be used to demonstrate the testing technique to include positioning and placement of the swab.

Assessment of Performance/Evaluation
See attached skills form

Homework
N/A

References
<ul style="list-style-type: none"> ▶ Case histories, case studies ▶ Holshue ML, DeBolt C, Lindquist S, et al; Washington State 2019-nCoV Case Investigation Team. First case of 2019 novel coronavirus in the United States. <i>N Engl J Med.</i> 2020;382(10):929-936. doi:10.1056/NEJMoa2001191 ▶ Tang A, Tong ZD, Wang HL, et al. Detection of novel coronavirus by RT-PCR in stool specimen from asymptomatic child, China [published online June 17, 2020]. <i>Emerg Infect Dis.</i> 2020;26(2). doi:10.3201/eid2606.200301 ▶ Published guidelines ▶ Centers for Disease Control and Prevention (CDC). Interim infection prevention and control recommendations for patients with suspected or confirmed coronavirus disease 2019 (COVID-19) in healthcare settings. https://www.cdc.gov/coronavirus/2019-ncov/infection-control/control-recommendations.html. Updated April 1, 2020. Accessed April 2, 2020. ▶ Centers for Disease Control and Prevention. Evaluating and testing persons for coronavirus disease 2019 (COVID-19). https://www.cdc.gov/coronavirus/2019-ncov/hcp/clinical-criteria.html. Updated March 14, 2020. Accessed April 2, 2020. ▶ Ontario Agency for Health Protection and Promotion. Coronavirus disease 2019 (COVID-19) testing. https://www.publichealthontario.ca/en/laboratory-services/test-information-index/wuhan-novel-coronavirus. Updated March 17, 2020. Accessed April 2, 2020. ▶ The Joint Commission (TJC). National patient safety goals effective January 2020: hospital accreditation program. https://www.jointcommission.org/-/media/tjc/documents/standards/national-patient-safety-goals/npsg_chapter_hap_jan2020.pdf. Published 2020. Accessed April 2, 2020. ▶ Public Health England. Suspected COVID-19 cases: sampling and packaging. https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/866632/COVID-19_Sample_Packaging_Instructions_PHE_A3_poster_12.pdf. Published 2020. Accessed March 20, 2020. ▶ Maryland Department of Health. COVID-19 (2019 novel coronavirus) guidance. https://health.maryland.gov/laboratories/Pages/Novel-Coronavirus.aspx. Accessed April 2, 2020. ▶ General or background information/texts/reports ▶ World Health Organization (WHO). Q&A on coronaviruses (COVID-19). https://www.who.int/news-room/q-a-detail/q-a-coronaviruses#:~:text=symptoms. Published March 9, 2020. Accessed April 2, 2020. ▶ Lynn, P. Laboratory specimen collection. In: <i>Taylor's Clinical Nursing Skills: A Nursing Process Approach</i>. 5th ed. Philadelphia, PA: Wolters Kluwer;2019:1036-1037. ▶ Centers for Disease Control and Prevention. Coronavirus disease 2019 (COVID-19). Frequently asked questions about laboratory biosafety and SARS-CoV-2: specimen handling. https://www.cdc.gov/coronavirus/2019-ncov/lab/biosafety-faqs.html. Updated March 19, 2020. Accessed April 2, 2020. ▶ Food and Drug Administration. Fact sheet for healthcare providers: CDC - 2019-nCoV real-time RT-PCR diagnostic panel. https://www.fda.gov/media/134920/download. Published February 4, 2020. Updated April 2, 2020. Accessed April 2, 2020. ▶ Published government report ▶ European Centre for Disease Prevention and Control (ECDC). <i>ECDC technical report: personal protective equipment (PPE) needs in healthcare settings for the care of patients with suspected or confirmed novel coronavirus (2019-nCoV)</i>. ECDC: Stockholm; 2020. https://www.ecdc.europa.eu/sites/default/files/documents/novel-coronavirus-personal-protective-equipment-needs-healthcare-settings.pdf. Accessed March 20, 2020. ▶ Policies, procedures, protocols

- ▶ Centers for Disease Control and Prevention. Sequence for putting on personal protective equipment (PPE). <https://www.cdc.gov/hai/pdfs/ppe/ppe-sequence.pdf>. Accessed April 1, 2020.
- ▶ Yukon Health and Social Services. Nasopharyngeal swab procedure. <http://www.hss.gov.yk.ca/pdf/npswab.pdf>. Published October 2015. Accessed April 2, 2020.
- ▶ State of Rhode Island Department of Health. 2019-novel coronavirus (COVID-19) specimen collection kit instructions. <https://health.ri.gov/publications/instructions/COVID-19-Specimen-Collection-Kit.pdf>. Published March 2020. Accessed April 2, 2020.
- ▶ **Published research (not randomized controlled trial)**
- ▶ Chen N, Zhou M, Dong X, et al. Epidemiological and clinical characteristics of 99 cases of 2019 novel coronavirus pneumonia in Wuhan, China: a descriptive study. *Lancet*. 2020;395(10223):507-513. doi:10.1016/S0140-6736(20)30211-7
- ▶ Xu XW, Wu XX, Jiang XG, et al. Clinical findings in a group of patients infected with the 2019 novel coronavirus (SARS-Cov-2) outside of Wuhan, China: retrospective case series. *BMJ*. 2020;368: m606. doi:10.1136/bmj.m606
- ▶ Smieja M, Castriciano S, Carruthers S, et al. Development and evaluation of a flocculated nasal midturbinate swab for self-collection in respiratory virus infection diagnostic testing. *J Clin Microbiol*. 2010; 48(9):3340-3342. doi:10.1128/JCM.02235-09
- ▶ Li Z, Yi Y, Luo X, et al. Development and clinical application of a rapid IgM-IgG combined antibody test for SARS-CoV-2 infection diagnosis [published online February 27, 2020]. *J Med Virol*. doi:10.1002/jmv.25727
- ▶ **Published systematic or integrative literature review**
- ▶ Pang J, Wang MX, Ang IYH, et al. Potential rapid diagnostics, vaccine and therapeutics for 2019 novel coronavirus (2019-nCoV): a systematic review. *J Clin Med*. 2020;9(3):E623. doi:10.3390/jcm9030623