

Name of Module:	CO Oximetry							
Module Provider Level:		EMR	X	EMT	X	AEMT	X	Paramedic
Contributor(s) :	M. Neimeyer							
Instructional Setting:		Single Student			Small Group		x	Whole Class
Learning Domain(s):	x	Didactic		x	Psychomotor			Affective
General Description of Lesson: (should be consistent with the Educational Standards. Include additional standards for multiple levels):	EMR	N/A						
	EMT	Basic pathophysiology review of the lungs, how CO enters the body and is circulated through the bloodstream, how to recognize signs/symptoms of CO poisoning, basic treatment for CO poisoning						
	AEMT	EMT lesson with additional focus on IV and advanced airway options.						
	Paramedic	EMT and AEMT lesson with additional focus on ALS procedures and medication administration.						
Objective(s) of Lesson: (Should be consistent with the terminal objectives. Include additional objectives for multiple levels)	EMR	N/A						
	EMT	1.1- Define carbon monoxide and carbon monoxide poisoning 1.2- Describe the causes of carbon monoxide poisoning 1.3- Identify signs and symptoms of carbon monoxide poisoning 1.4- Describe the BLS care and treatment for a patient with carbon monoxide poisoning 1.5- Describe the steps needed to properly identify carbon monoxide poisoning using a CO Oximeter 1.6- Describe how to identify false readings using a CO Oximeter 1.7- Identify the risks of carbon monoxide poisoning to EMS providers and firefighters. 1.8- Describe the danger(s) in treating and releasing/not transporting a patient with a significant carbon monoxide exposure						
	AEMT	EMT level plus: 2.1- Describe when IV therapy and advanced airway procedures may be needed in a patient with carbon monoxide poisoning.						
	Paramedic	EMT and AEMT level plus: 3.1- Describe advanced life support procedures that may be needed in a patient with carbon monoxide poisoning.						
Assessment type(s):	x	Quiz			x	Observation		
		Lab Skill Sheet				Other:		
Describe the								

assessment plan:	<p>Didactic proficiency demonstration: Each student will be given a quiz, based on their level of licensure, on carbon monoxide poisoning and the use of carbon monoxide oximetry.</p> <p>Psychomotor proficiency demonstration: Each student will be given a scenario and will demonstrate the steps taken to identify a patient with carbon monoxide poisoning.</p>			
Describe electronic resource(s) used in this plan:	CO Oximeter manufacturer video			
Materials and Resources used by teachers and students:	Powerpoint presentation, student handouts, AAOS text discussing CO poisoning and oximetry (EMT), Brady Paramedic Care- Principles and Practice third edition discussing CO poisoning, oximetry, and treatment(s).			
Teacher Procedure:	<p>The instructor will review with the students the powerpoint presentation, followed by student handouts and discussion. The discussion should include definitions, signs/symptoms, the proper use of a CO Oximeter to include false reading awareness. A video demonstrating a CO oximeter (from a manufacturer) will be optional. Prior to the demonstration of a CO Oximeter and its use, the students should successfully pass the quiz.</p> <p>The instructor will then demonstrate how to use a CO Oximeter, including any manufacturer “tips” or suggested methods for obtaining an accurate oximetry reading.</p>			
Student Tasks:	Participation in discussion, Participation in skills practice, Successfully pass the written quiz and psychomotor assessment.			
Time Required:	# of class periods:	EMT- 1 AEMT- 1 Paramedic- 1	# of minutes per class period:	EMT- 90 minutes AEMT- 105 minutes Paramedic- 120 minutes
Notes, tips, suggestions, and/or extension activities:	See attached list for additional websites pertaining to CO poisoning and oximetry.			