

Name of Module:	Long Board							
Module Provider Level:	X	EMR		EMT		AEMT		Paramedic
Instructional Setting:		Single Student	x	Small Group	x	Whole Class		
Learning Domain(s):	x	Didactic	x	Psychomotor	x	Affective		
General Description of Lesson:	EMR	Trauma Care: Immobilization of suspected spinal injuries using the long backboard.						
Objective(s) of Lesson:	EMR	<p>Prerequisites: EMR Education Patch; C-spine immobilization; patient assessment.</p> <p>Didactic-1. Choose from a list the structures and functions of the central nervous system and surrounding skeletal supports. 2. Relate mechanisms of injury to potential spinal injuries. 3. Recognize signs/symptoms of spinal injury</p> <p>Affective 1. Explain (to the patient) the procedure of spinal immobilization. 2. Select immobilization / securing devices not including the cot straps 3. Explain/discuss long-term sequela of spinal cord injuries</p> <p>Psychomotor 1. Assess/evaluate a conscious patient with suspected spinal injury 2. Properly apply and utilize long spine board 3. Given a patient who is secured to a spine board, correctly protect/clear the airway.</p>						
Assessment type(s):	x	Quiz			x	Observation		
	x	Lab Skill Sheet				Other		
Describe the assessment plan:	<p>Pretest to insure mastery of prerequisites prior to initiating lesson. Provide opportunity to familiarize with equipment prior to student practice. On completion of lesson, students will demonstrate proper technique of assessment, application, and care of patients receiving spinal immobilization, in accordance with <u>Spinal Immobilization Supine Patient checklist</u> (provided). Identify students requiring remediation (didactic) using quiz, and provide additional instruction as indicated. Identify students requiring remediation (psychomotor) using student demonstration; attempt to identify and provide constructive comments to students having difficulty during practice sessions.</p>							
Describe electronic resource(s) used in this plan:	<p>www.nhtsa.dot.gov/.../NHTSA/Traffic%20Injury%20Control/Articles/Associated%20Files/EMS_Feb07_PMS314.pdf - http://www.nemses.org/draft_standards/pdf/education_standards_document.pdf (this is the Don't Use/Don't Quote version 3) http://www.nremt.org/EMTServices/exam_coord_man.asp?seclD=1 (skills test checklists)</p>							

	http://www.nremt.org/downloads/spinalimmobilizationseated.pdf and http://www.nremt.org/downloads/spinalimmobilizationsupine.pdf		
Materials and Resources used by teachers and students:	Mistovich, K. Prehospital Emergency Care, 6 th Ed.. Brady. United States D.O.T., NHTSA, EMT-Basic: National Standard Curriculum <u>Emergency Medical Technician: Making the Difference</u> . Will Chapleau, Peter Pons. Elsevier. ISBN #13 978-0-323-04001-3 Shade, Collins et al. <u>Mosby's EMT-Intermediate Textbook for the 1985 National Standard Curriculum</u> . 2007. Philadelphia.		
Teacher Procedure:	<p>Pretest. Review anatomy and physiology of CNS. Discuss mechanisms of injury likely to cause spinal compromise; widen index of suspicion to include at-risk for fracture populations with MOI not typically causing spine damage. Emphasize speed/mass relationships. Discuss potential family/financial/physical long-term outcome of spinal injury.</p> <p>Reinforce ABC, then complete rapid trauma assessment, Demonstrate motor/sensory assessments before and after immobilization and securing of patient. Emphasize caution, advising against any movement of the patient or purposeful eliciting of pain responses. Reinforce SAMPLE history and focused exam.</p> <p>Demonstrate log-rolling patients from positions other than supine. Reinforce "Head EMT" task of directing moving/repositioning of the patient.</p> <p>Reinforce critical tasks on "Spinal Immobilization" checklist.</p> <p>Encourage and reinforce proper task performance; offer suggestions for improvement if student needs additional practice.</p>		
Student Tasks:	<p>Demonstrate assessment of suspected spinal injury patient</p> <p>Demonstrate airway maintenance in immobilized patient.</p> <p>Demonstrate log rolling suspected spinal injury patients.</p> <p>Demonstrate spinal immobilization using a long spine board IAW <i>Spinal Immobilization</i> checklist.</p>		
Time Required:	# of class periods:	3	# of minutes per class period: 60
Notes, tips, suggestions, and/or extension activities:	<p>During reciprocal student practice, at various stages of the immobilization procedure (e.g. when the torso is secure but before the head), simulate care of the vomiting patient.</p> <p>Insist the students form "litter teams" to actually lift each other onto the gurney AFTER securing them to the backboard.</p> <p>Assign the movie "Courageous Steps" with Christopher Reeve.</p> <p>Participate in a mass-casualty trauma or decontamination exercise to reinforce the difficulty / hazards in moving multiple immobilized patients.</p>		