



EMT Skill Sheet

Skill #4 - Spinal Immobilization (Spinal Motion Restriction)

Student Name: _____

Pass date - _____

Evaluator Name _____ Signature: _____

(Sign if Student Passes Skill)

Date

Dispatched:	Patient Contact:	Transport:	End of Call:	Comments
Information on this skill can be found in the Text Book and on the class D2L website				
SCENE SIZE-UP – Starts prior to Patient contact but continues throughout the call				
Takes, or verbalizes, body substance isolation precautions of Gloves and Eye Protection (Critical Fail!)				
Verbalizes Scene Size-up (Information from Dispatch and EMRs) – Safety (Critical Fail!), Mechanism of Injury (MOI) – C-spine needed, Nature of Illness (NOI), Additional Resources, # of Patients				
PRIMARY ASSESSMENT (Primary Survey/Initial Assessment) - Done On Scene				
General Impression of the scene, patient & gathers information from EMRs or bystanders. Must observe:				
<ul style="list-style-type: none"> ✓ Unusual Environmental Factors (Hazards, Odors/Temperature, Lighting, Entrances/Exits, People) ✓ Patient’s approximate Age, Sex, and Mental Status/ LOC (Level of Consciousness) ✓ Patient’s Positioning, Level of Distress (Breathing/Pain), and any Gross Injuries seen ✓ Looking for Arterial Bleeding and <i>≈If necessary</i> - applying bleeding control as soon as possible 				
Considers C-spine (Spinal Motion Restriction) for the Patient (Critical Fail!) – When in doubt – C-spine EMT should evaluate the scene for MOI (Mechanism of Injury). Does patient meet any of the following; <ul style="list-style-type: none"> • Significant MOI (MVC at high speed, Falls>20 feet) with Neck/Back Pain or Neurological deficit • Unresponsive/AMS (Altered Mental Status or Drugs/ETOH) patients with unknown history of event • Water related accidents, head/neck injuries, hangings If Yes to the above - Tell patient not to move and directs an EMT to hold manual stabilization (Skill #4)				
Evaluator states Patient involved with Trauma of Significant MOI with deficits				
Informs patient not to move and directs an EMT to maintain manual immobilization of head in a neutral in-line position – Verbalizes to patient that an EMT will be holding their head to protect their spine				
Identifies self by Name, Level of Medical training, Agency and gets Patient’s Consent (Expressed/Implied)				
Asks Patient – Name, Age and Chief Complaint				
<ul style="list-style-type: none"> • Determines patient’s condition & considers calling for ALS if necessary 				
Determines responsiveness of Patient by AVPU - May visualize for signs of Breathing at this time <ul style="list-style-type: none"> ✓ Awake - If patient is Alert must ask Person, Place, Time and Event orientation questions ✓ Responses to Verbal – check to see if patient can follow commands or answer questions ✓ Physical then Pain - check to see if patient can follow commands, open eyes or answer questions ✓ Unresponsive – NO response to Painful stimulus (Do no harm – neck/ear pinch, push bone above eye) 				
<i>≈If necessary</i> - If patient is Unresponsive to Pain start with Circulation not Airway (2010 ECC BLS)				
<u>Airway</u> - Assesses and Fixes (Critical Fail!) <ul style="list-style-type: none"> ✓ Listen for noise – snoring, stridor, gurgling, wheeze ✓ Smell for odors – ETOH (alcohol), emesis, ketones, unusual odors (must be within 3 feet of Head) ✓ Ask if patient if they are nauseated or had emesis if awake Considers if Airway is Good (Adequate) or Bad (Inadequate) <ul style="list-style-type: none"> ➤ Signs/Symptoms (s/s) that Airway is Patent/Adequate – Patient is awake and maintaining their own airway, no abnormal noises heard (stridor, snoring, gurgling), Patient can speak clearly, No oral trauma or obstructions (blood, vomit, fluid, swelling) are noted ➤ Signs/Symptoms that Airway is Inadequate – Diminished level of responsiveness, Abnormal noises heard (stridor, snoring, gurgling), Drooling, Difficulty talking or speaking clearly, Actively vomiting If Airway is Inadequate or Patient with Altered Mental Status (AMS) - Open mouth and look for Obstruction – broken teeth, dentures, edema, emesis, blood (use light pen) <i>≈If necessary</i> – Fixes Airway (Skill #2) <ul style="list-style-type: none"> • Suctions patient as needed • Open and maintain airway with Head-Tilt Chin-Lift/Jaw-Thrust if patient is not maintaining Airway due to decreased mental status Considers Airway Adjunct for all Patient’s with AMS - OPA or NPA				

<p>Breathing - Assesses and Fixes (Critical Fail!) – This may be done in Mental status assessment Considers if Airway is Good (Adequate) or Bad (Inadequate)</p> <ul style="list-style-type: none"> ✓ Looks for bilateral chest rise/Listsens for Noisy breathing/Feels for chest rise (AMS patients) <ul style="list-style-type: none"> ➤ Breathing is Adequate – Equal rise and fall of chest bilaterally, Non-labored, Patient is Awake with good mental status, no abnormal noise heard, Breathing is full, Appears to be a good rate (12-20), Pink dry skin, patient can speak in full sentences ➤ Breathing is Inadequate – Labored breathing, Abnormal noises (stridor, wheezes, coughing, or noisy breathing), Bad rate (<12 or > 20), Shallow breathing, Patient is tripodding, using accessory muscles, Pale /cyanotic skin, unable to speak full sentences, (Nasal flaring, Grunting, Retractions, or Seesaw breathing - Kids) – patients with Decreased mental status should be carefully assessed ✓ If Breathing is labored - Describes level of Dyspnea as Mild, Moderate or Severe (get SpO2) 		
<p>Considers Ventilation and Oxygen for the Patient – (Critical Fail!) (Skill #1) ≈If patient has - Adequate Breathing & No life threating Complaint &/or signs of Hypoxia/Shock</p> <ul style="list-style-type: none"> ✓ Oxygen therapy may not be required ≈If patient has - Adequate Breathing but life threating signs of Hypoxia or Shock <p>Directs an EMT to provide O2 therapy and place SpO2 on patient (keep SpO2 greater or equal to 94%)</p> <ul style="list-style-type: none"> ✓ NC 1-6 LPM – Little Sick without Life Threating Complaints or only mild Respiratory distress ✓ NRM 15 LPM – Big Sick, Hypoxic, AMS, CO poisoning, Shock, or Respiratory distress (>Mild) ✓ Considers CPAP for moderate to severe Respiratory distress. Considers contraindications of CPAP <p>≈If patient has - Signs of Inadequate Breathing (Slow, Shallow, Unequal/Inadequate chest rise)</p> <ul style="list-style-type: none"> ✓ Directs 2 EMT/EMRs to provide positive pressure ventilation with BVM (Oxygen at 15 LPM) 		
<p>Circulation - Assesses and Fixes (Critical Fail!)</p> <ul style="list-style-type: none"> ✓ Pulse (Verbalize the Strength, Speed-fast/slow, and Regularity) assess for up to 10 seconds ✓ Checks Skin signs (Moisture/Color/Temperature) and Cap Refill • Signs or symptoms of Shock must be treated in Primary assessment (Skill #5) 		
<p>Deformities - Assesses and Fixes this assessment should take no more than 60 - 90 seconds <u>Anterior Rapid Scan in all Patients with decreased LOC:</u></p> <ul style="list-style-type: none"> ✓ Head - Palpate head for deformities, Visualize ears, nose & open mouth for trauma or bleeding or ecchymosis, checks facial symmetry ✓ Neck – Visualize for JVD, swelling or bleeding. Palpate the midline neck if not already done ✓ Chest – Visualize equal rise & fall of chest. Expose chest and then Visualize then Palpate anterior Sternal and Lateral by Palpation <ul style="list-style-type: none"> • Cover penetrating thoracic injuries with gloved hand until an occlusive dressing applied • EMT may consider checking Lung Sounds (Bases & Apexes) for Critical patients/Chest trauma ✓ Abdomen – Expose and Palpate for guarding, tenderness, distention or rigidity in 4 quadrants ✓ Rub hands under posterior bilateral sides of Patient to check for Arterial Bleeding ✓ Pelvis – Visualize for incontinence of urine/feces (for significant Trauma Patients the EMT must palpate pelvis laterally and anteriorly/posterior). Checks for priapism. ✓ Extremities – Visualize/Palpate for arterial bleeding and gross injuries. Check CMS* in Arms/Legs <p>*CMS – Circulation, Motor & Sensory function (Neurovascular function or PMS - Pulse/Motor/Sensory)</p> <p>≈If necessary - Provides bleeding control or occlusive dressing (Critical Fail!)</p> <ul style="list-style-type: none"> ➤ Some EMTs may just do a quick Visual Scan without Palpation on Awake Medical/Trauma Patients 		
<p>Expose and Examine - To the appropriate level (Age, Mental status, Injury, Environment)</p> <ul style="list-style-type: none"> • Head and Chest should be exposed in Critical Patients (Head Coverings/Shirt) 		
<p>Consider and verbalizes to EMT partner(s) the following – Patient Priority (Life Threats) –</p> <ol style="list-style-type: none"> 1. Appears – Stable (Little Sick); <ul style="list-style-type: none"> ➤ Mental Status & ABCDs normal and no life threating complaint(s) 2. Appears - Potentially Unstable (possible Big Sick); <ul style="list-style-type: none"> ➤ Mental Status and ABCD good but has life threating complaint(s) 3. Appears – Unstable (Big Sick); <ul style="list-style-type: none"> ➤ Any abnormal Mental Status or abnormal ABCDs and/or has life threating complaint(s) <ul style="list-style-type: none"> ✓ Inform team of Transport Decision. Stay & Play or Load & Go <ul style="list-style-type: none"> • <10 min on scene for Critical patients ✓ Calls for ALS or any other additional resources that may be needed ✓ Assign Tasks to Team Members (sometimes done in Scene Size up) <ul style="list-style-type: none"> • EMT #1 – Holds Patient head till patient fully secured • EMT #2 – C-spines (Spinal Motion Restriction) • EMT #3 - C-spines (Spinal Motion Restriction) • EMT #4 – Vital Signs, Demographics and Physical Assessment and Patient History <p>≈If necessary - Considers the Golden Hour/Period for Critical Trauma* (Critical Fail!)</p>		

Note: The Evaluator informs the student that the secondary assessment has been done by another EMT and to stabilize the spine with c-spine application using the equipment provided		
Note C-spine protocols vary dramatically from State to State and County to County. This is the Current National standard for C-spine patients. The Current National standard may change in the near future;		
<ul style="list-style-type: none"> • C-spine based not just on MOI but Neurological deficits, midline Neck/Back Pain with trauma • Using Just C-collars or X-Collars without boards • Using KEDS • Using Full/Half Body Vacuum Splints with or without Combi-Carriers or Scoop stretchers 		
In some Counties this is call Spinal Motion Restriction not Spinal Immobilization		
EMT explains treatment to patient and gets Informed consent		
Assesses CMS* or motor, sensory and circulatory function in all 4 extremities if not done in the Primary Assessment (Critical Fail!)		
<ul style="list-style-type: none"> • Should check strength bilaterally in feet and hands unless an injury prevents this assessment 		
✓ Must be done prior to moving the patient! (Critical Fail!)		
Applies appropriately sized extrication collar – May be done/or not done at any time in skill		
<ul style="list-style-type: none"> • Should assess after c-collar placement that the patients head is not hyper or hypo flexed 		
✓ If cervical collar is not used - the EMT should use towels or bed sheets rolls in securing head		
Log rolls the patient laterally with assistant(s) if available		
<ul style="list-style-type: none"> • EMT at head directs movement of patient • Assesses patients posterior (head, spine, scapula, kidneys, buttocks (incontinent), back of legs) by Visualization and Palpation (Expose posture as necessary) • Log rolls patient onto backboard 		
Directs movement of the patient onto the device without compromising the spine (Critical Fail!)		
✓ Z pattern diagonal directional movement		
✓ No lateral or horizontal movement that compromises spinal alignment allowed		
Applies padding to voids between the patient and the board as necessary		
Secures patient to backboard with straps (Critical Fail!)		
✓ No strap over injuries, abdomen or patella – must be 2 inches above and below knee		
✓ Tighten straps to prevent movement of patient on board (3 fingers should not fit in-between straps)		
✓ Straps must be tucked in and not loose after tighten		
➤ Textbooks state strapping order – Torso, Pelvis, Legs		
Pads behind patient head (may use commercial head securing device)		
Secures the patient head to the backboard (Critical Fail!) –		
✓ At least 2 straps must be used (no tape over mandible or skin) and head must not move		
➤ Some systems do not allow straps under chin		
Secures patient's arms based on patient mental status		
Assesses distal CMS* or motor, sensory and circulatory function after patient is secured to the backboard (Critical Fail!)		
#4 EMT Obtains History, Vital Signs and Demographics – Done on Scene most of Time unless patient is unstable		
#4 EMT Gets and Documents SAMPLE and OPQRST		
#4 EMT Gets Get Patient's Demographical Info (legal name, age, birthday, full address, phone #, insurance/hospital)		
Patient ID and Insurance Cards (if at medical facility must get copy of patient's medical record)		
#4 EMT Gets and Documents Vital signs		
Physical Assessment (Head to Toe) may be deferred till enroute		
Contacts Medical Control and/or documents Standing Orders/Protocols followed		
More than 4 missed points results in Failure	Total Missed Points	
✓ Actions performed and/or verbalized by student when doing skill		
➤ Additional information on the procedure		
• Key Points that student should know but do not need to verbalized/do unless asked		

* CMS – Circulation, Motor and Sensory Function (also called Neurovascular Function and PMS – Pulse/Motor/Sensory)

Evaluator Comments:

PHTLS (8th) Spinal Immobilization Flow Chart