



**NORTHWEST  
COMMUNITY  
EMERGENCY  
MEDICAL  
SERVICES  
SYSTEM**

**PROCEDURE  
MANUAL  
1-2019**

# NWC EMSS PROCEDURE MANUAL January 2019

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**NWC EMSS Skill Performance Record**  
**GENERAL (Medical) PATIENT ASSESSMENT**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** You are asked to assess the patient, intervene as needed, and call your findings in to the hospital.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>SCENE SIZE UP</b>		
* Determine scene safety; control & correct hazards; remove pt/crew from unsafe environment ASAP		
If a potential crime scene, make efforts to preserve possible evidence		
* Determine nature of illness; scan environment for clues; DNR/POLST orders		
Universal blood/body secretion & sharps precautions; use appropriate PPE prn		
Determine number of patients & triage if necessary. Determine need for additional assistance and request additional help if necessary, Weigh risk of waiting for resources against benefit of rapid transport to definitive care. Consider if medium or large scale MPI declaration is needed.		
<b>PRIMARY ASSESSMENT/RESUSCITATION (IMC) <span style="background-color: yellow;">Time assessment began:</span></b>		
Introduce self to patient; ask patient name; begin to establish rapport with patient/significant others		
Form general impression: age, gender, general appearance, position, purposeful movements		
*Determine <b>Level of consciousness</b> using AVPU or GCS		
Determine chief complaint S&S		
Determine if immediate life threat exists and resuscitate as found		
If unconscious, apneic or gasping, & pulseless START QUALITY CPR		
<b>AIRWAY:</b> Assess for impairment: Snoring, gurgling, stridor, silence; consider possible spine injury		
<b>Intervention:</b>		
<input type="checkbox"/> Open/maintain using position, suction, and appropriate adjuncts <input type="checkbox"/> If Obstructed: Go to AIRWAY OBSTRUCTION SOP <input type="checkbox"/> Loosen tight clothing; vomiting and seizure precautions as indicated		
<b>Breathing/gas exchange/adequacy of ventilations.</b> Assess/intervene as needed		
<input type="checkbox"/> *Assess for spontaneous ventilations; general rate (normal, fast or slow) <input type="checkbox"/> *Assess depth; effort/WOB; accessory muscle use <input type="checkbox"/> Assess position, adequacy of air movement, symmetry of chest expansion, retractions <input type="checkbox"/> Lung sounds if in ventilatory distress <input type="checkbox"/> * <b>Assess gas exchange;</b> apply SpO <sub>2</sub> monitor; assess for hypoxia, cardiorespiratory or neurological compromise. Note before & after O <sub>2</sub> if able. Note signs of hypoxia <input type="checkbox"/> *Assess ETCO <sub>2</sub> number& waveform if possible ventilatory, perfusion, metabolic compromise		
* <b>Correct hypoxia/assure adequate ventilations:</b> Target SpO <sub>2</sub> : 94%-98% (92% COPD) unless hyperoxia contraind.		
<input type="checkbox"/> <b>O<sub>2</sub> 1-6 L/NC:</b> Adequate rate/depth; minimal distress; SpO <sub>2</sub> 92%-94% (88%-91% COPD) <input type="checkbox"/> <b>O<sub>2</sub> 12-15 L/NRM:</b> Adequate rate/depth: mod/severe distress; SpO <sub>2</sub> < 92%; (<88% COPD) <input type="checkbox"/> <b>O<sub>2</sub> 15 L/ BVM:</b> Apnea and/or shallow/inadequate rate/depth with moderate/severe distress; unstable. Adults: 1 breath every 6 sec (10 breaths/minute) (Asthma: 6-8 BPM) <input type="checkbox"/> <b>CPAP:</b> Per appropriate SOP * <b>Hyperoxia contraindicated:</b> Uncomplicated Acute MI; post-cardiac arrest; acute exacerbations COPD; stroke; newborn resuscitation. Give O <sub>2</sub> only if evidence of hypoxia; titrate to dose that relieves hypoxemia w/o causing hyperoxia: SpO <sub>2</sub> 94% (92% COPD)		
<b>CIRCULATION / PERFUSION / ECG:</b>		
<input type="checkbox"/> *Central and peripheral pulses for presence, general rate/quality/regularity <input type="checkbox"/> <b>Perfusion:</b> Mental status (central); skin: color, temperature, moisture; turgor (peripheral) <input type="checkbox"/> Identify type, volume, & source(s) of bleeding; verbalize sequencing of external hemorrhage control <input type="checkbox"/> Assess jugular veins for distension <input type="checkbox"/> *Verbalize need for <b>ECG:</b> (rhythm/12 L) based on chief complaint or PMH: pain/discomfort nose to navel, SOB/HF, weak/tired/ fatigued, dizziness/syncope, c/o nausea, indigestion, palpitations/dysrhythmia, diaphoresis, etc.		

<p align="center"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p align="center"><b>Attempt 1 rating</b></p>	<p align="center"><b>Attempt 2 rating</b></p>
<input type="checkbox"/> Treat rate/rhythm/pump/volume/volume distribution disorders per appropriate SOP <input type="checkbox"/> <b>Vascular access:</b> actual/potential volume replacement and/or IV meds prior to hospital arrival <b>0.9% NS</b> – Catheter size, access site, & infusion rate based on pt size, hemodynamic status; SOP or OLMC. Do not delay transport of time-sensitive pts to establish elective vascular access on scene <input type="checkbox"/> <b>Indications for IO:</b> Pts in extremis urgently needing fluids and/or medications (circulatory collapse; difficult, delayed, or impossible venous access; or conditions preventing venous access at other sites). If conscious: infuse Lidocaine 2% 1 mg/kg (max 50 mg) IO before NS flush unless contraindicated <input type="checkbox"/> If peripheral IV unsuccessful / not advised, may use central venous access devices already placed based on OLMC		
<p><b>Disability if altered mental status</b></p> <input type="checkbox"/> *Assess glucose level (verbalizes) <input type="checkbox"/> *Assess pupils for size, shape, equality, reactivity to light (direct & consensual) <input type="checkbox"/> *Assess Glasgow Coma Score (using chart in SOP) <input type="checkbox"/> Evaluate gross motor and sensory function in all extremities; if acute stroke suspected go to Stroke SOP		
<p><b>Exposure/environment</b></p> <input type="checkbox"/> Discretely undress patient to inspect appropriate body areas; protect patient modesty <input type="checkbox"/> Maintain body warmth		
<p>*Identify time-sensitive (priority transport) patients/makes appropriate transport decision  Goal: 10 min or less</p>		
<p align="center"><b>SECONDARY ASSESSMENT</b></p>		
<p><b>Vital signs</b></p> <input type="checkbox"/> *BP (MAP); obtain 1 <sup>st</sup> manually, trend pulse pressure; orthostatic changes prn <input type="checkbox"/> *Pulse: rate, quality, rhythmicity <input type="checkbox"/> *Resp: rate, pattern, depth <input type="checkbox"/> Temp if high or low based on skin		
<p><b>History of present illness</b></p> <input type="checkbox"/> Onset <input type="checkbox"/> *Quality <input type="checkbox"/> *Severity <input type="checkbox"/> *Provocation/palliation <input type="checkbox"/> *Region/radiation <input type="checkbox"/> *Time (last seen normal) <input type="checkbox"/> Clarifying questions of associated signs and symptoms as related to OPQRST		
<p><b>SAMPLE history</b></p> <input type="checkbox"/> *Allergies (meds, environment, foods), <input type="checkbox"/> *Medications (prescription/over-the-counter – bring containers to hospital if possible) <input type="checkbox"/> *Past pertinent history: medic-alert jewelry; advance directives; medical devices/implants <input type="checkbox"/> *Last oral intake/LMP <input type="checkbox"/> *Events leading to present illness In pts with <b>syncope, seizure, AMS, cardiac arrest, or acute stroke</b> , consider bringing witness to hospital or obtain <b>call back phone number</b> <input type="checkbox"/> *Date of birth; approx. weight		
<p align="center"><b>PHYSICAL EXAM (Review of Systems) – must touch the patient</b></p>		
<p><b>Head/eyes, ear, nose throat (HEENT)</b></p> <input type="checkbox"/> *Inspect head, eyes, ears, nose, throat <input type="checkbox"/> Palpate: skull, orbits, nasal and facial bones		
<p><b>Neck</b></p> <input type="checkbox"/> *Inspect: jugular veins, edema <input type="checkbox"/> Palpate: position of trachea; cervical spines		
<p><b>Chest: Pulmonary/Cardiovascular</b></p> <input type="checkbox"/> *Inspect: Symmetry, contour/shape; AP/lateral diameter; chest wall mvmnt, deformity, retractions <input type="checkbox"/> *Palpate <input type="checkbox"/> *Auscultate breath sounds; heart sounds if applicable		
<p><b>Abdomen/pelvis/genitalia/reproductive organs</b> - in correct order</p> <input type="checkbox"/> *Inspect (contour, symmetry, discoloration; pain; changes in function (verbalizes) <input type="checkbox"/> Auscultate bowel sounds <input type="checkbox"/> *Palpate (light) for point tenderness, guarding, rigidity; ✓ rebound tenderness if S&S peritonitis		
<p><b>Musculoskeletal assessment: Lower extremities</b></p> <input type="checkbox"/> Inspect symmetry, edema, skin changes, discoloration <input type="checkbox"/> *Palpate: pulses, warmth, pain; pitting edema <input type="checkbox"/> Sensory/Motor/Vascular status of each limb		

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Upper extremities</b> <input type="checkbox"/> Inspect symmetry, edema, skin changes, discoloration <input type="checkbox"/> *Palpate: pulses, warmth, pain; pitting edema <input type="checkbox"/> Sensory/Motor/Vascular status of each limb		
<b>Back</b> <input type="checkbox"/> Inspect <input type="checkbox"/> Palpate		
<b>Neurologic</b> <b>*Mental status:</b> affect, behavior, cognition (verbalizes); memory/orientation; GCS <b>Cranial nerves (Select)</b> <input type="checkbox"/> *Visual acuity <input type="checkbox"/> EOMs <input type="checkbox"/> Hearing <input type="checkbox"/> *Pupil size, shape, equality <input type="checkbox"/> Facial sensation <input type="checkbox"/> Gag <input type="checkbox"/> *Pupil reactivity to light <input type="checkbox"/> Facial movement/symmetry/eyelid closing <input type="checkbox"/> Stick out tongue <b>Cerebellar exam:</b> Assess for ataxia <input type="checkbox"/> <b>Upper extremities:</b> Have pt touch their index finger to their nose and then reach out to touch examiner's finger; OR perform alternating movements by rapidly pronating and supinating hands; OR bring fingers to thumb in rapid succession <input type="checkbox"/> <b>Lower extremities:</b> Have pt slide heel of one foot rapidly up and down shin of opposite leg <input type="checkbox"/> If possible stroke: Prehospital <b>Stroke Screen:</b>		
<b>Skin: Integumentary assessment</b> (integrated above) color (variation), moisture, temp, texture, turgor, lesions/breakdown; hair distribution; nails (clubbing)		
<b>Psychological/social assessment</b>		
<b>*State paramedic impression:</b>		
Verbalize treatment plan and appropriate interventions		
Transport decision re-evaluated		
<b>On-going assessment enroute</b>		
Repeat primary & secondary assessments		
Evaluate responses to treatments		
Reassess VS/pt. responses. Every transported pt. should have at least 2 sets of VS. <input type="checkbox"/> <b>Stable:</b> At least q. 15 min & after each drug/cardiorespiratory intervention; last set should be taken shortly before arrival at receiving facility <input type="checkbox"/> <b>Unstable:</b> More frequent reassessments; continue to reassess all abnormal VS & physical findings		
<b>Actual time to complete assessment in minutes</b>		
<b>Report to hospital</b>		
<b>Identification</b> <input type="checkbox"/> *Hospital being contacted <input type="checkbox"/> *EMS provider agency and unit #; call back number <input type="checkbox"/> *Age, gender, and approximate weight of patient <input type="checkbox"/> *Level of consciousness (conscious/unconscious responds to ....)		
<b>Chief complaint(s) (list):</b> <input type="checkbox"/> Onset <input type="checkbox"/> *Quality <input type="checkbox"/> *Severity <input type="checkbox"/> *Provocation/palliation <input type="checkbox"/> *Region/radiation <input type="checkbox"/> *Time		
Associated complaints:		
<b>History</b> <input type="checkbox"/> *Allergies <input type="checkbox"/> *Medications (current): time and amount of last dose if applicable <input type="checkbox"/> *Past medical history (pertinent) <input type="checkbox"/> Last oral intake, last menstrual period if indicated <input type="checkbox"/> *Events leading up to present illness/injury (history of present illness)		
<b>Vital signs:</b> <input type="checkbox"/> *BP: Auscultated <input type="checkbox"/> *Respirations: rate, pattern, depth <input type="checkbox"/> Temp prn <input type="checkbox"/> *Pulse: rate , quality <input type="checkbox"/> SpO <sub>2</sub> <input type="checkbox"/> Capnography		
*Physical examination findings; include pertinent positives and negatives		
Treatments initiated prior to hospital contact (IMC) and patient response to treatment		

<b>Performance standard</b> 0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
ETA		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to initiate or call for transport of the patient within 15 minute time limit <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to determine scene safety before approaching patient <input type="checkbox"/> Failure to voice and ultimately provide appropriate oxygen therapy <input type="checkbox"/> Failure to assess/provide adequate ventilation <input type="checkbox"/> Failure to find or appropriately manage problems associated with airway, breathing, hemorrhage or shock [hypoperfusion] <input type="checkbox"/> Failure to differentiate pt's need for immediate transport vs assessment & treatment at scene <input type="checkbox"/> Does Secondary assessment before assessing and treating threats to airway, breathing, & circulation <input type="checkbox"/> Failure to determine the patient's primary problem <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention <input type="checkbox"/> Failure to provide for spinal protection when indicated <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Factually document below your rationale for checking any of the above critical criteria.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 12/16

\_\_\_\_\_  
Preceptor (PRINT NAME – signature)

**WC EMSS Skill Performance Record  
TRAUMA ASSESSMENT**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** You are asked to assess the patient, intervene as needed, and call your findings in to the hospital.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>SCENE SIZE UP</b>		
* Determine scene safety; control & correct hazards; remove pt/crew from unsafe environment ASAP		
If a potential crime scene, make efforts to preserve possible evidence		
* Determine nature of illness; scan environment for clues; DNR/POLST orders		
Universal blood/body secretion & sharps precautions; use appropriate PPE prn		
Determine number of patients & triage if necessary. Determine need for additional assistance and request additional help if necessary, Weigh risk of waiting for resources against benefit of rapid transport to definitive care. Consider if medium or large scale MPI declaration is needed.		
<b>PRIMARY ASSESSMENT/RESUSCITATION (IMC) <span style="background-color: yellow;">Time assessment began:</span></b>		
*Determine responsiveness/level of consciousness		
* <b>Airway:</b> Assess for impairment		
*Verbalize interventions for airway access/control if necessary		
<b>Breathing/ventilatory/gas exchange status; assess for impairment</b>		
<input type="checkbox"/> *Assess for spontaneous ventilations; general rate (fast or slow)		
<input type="checkbox"/> *Assess WOB; symmetry of expansion; use of accessory muscles; retractions		
<input type="checkbox"/> * <b>Assess gas exchange; apply SpO<sub>2</sub> monitor; assess for signs of hypoxia</b>		
<input type="checkbox"/> Assess capnography number and waveform if ventilatory, perfusion, metabolic complaint		
<input type="checkbox"/> *Assess breath sounds if in ventilatory distress		
<input type="checkbox"/> <b>Assess for immediate life threats:</b> tension pneumo; open pneumo; flail chest		
<input type="checkbox"/> *Verbalize appropriate resuscitative intervention for life-threat		
<input type="checkbox"/> Ensures adequate ventilations		
<input type="checkbox"/> *Initiate appropriate O <sub>2</sub> therapy based on SpO <sub>2</sub> and level of distress		
<input type="checkbox"/> -Manages any injury which may compromise breathing/ventilation		
<b>Circulatory status; assess for impairment (C-A-B-C-D-E approach if sign external bleeding)</b>		
<input type="checkbox"/> *Assess for and control major bleeding if present		
<input type="checkbox"/> *Central and peripheral pulses for presence, general rate/quality/rhythmicity		
<input type="checkbox"/> *CPR if indicated (rapid transport decision for patient in traumatic arrest)		
<input type="checkbox"/> *Skin (verbalizes color, temperature, moisture, turgor)		
<input type="checkbox"/> Assess neck veins for distension		
<input type="checkbox"/> * <b>Assess for immediate life threats:</b> Cardiac tamponade; blunt cardiac injury; shock		
<input type="checkbox"/> *Verbalize appropriate resuscitative intervention for life-threat		
<input type="checkbox"/> *Verbalize need for ECG monitor if pulse absent/irregular		
<input type="checkbox"/> * Initiate appropriate vascular access and (warm) IV fluids for condition		
<b>Disability if altered mental status</b>		
<input type="checkbox"/> *Assess glucose level (verbalizes)		
<input type="checkbox"/> *Assess pupils for size, shape, equality, reactivity		
<input type="checkbox"/> *Assess Glasgow Coma Score		
<input type="checkbox"/> *Assess and verbalize the need for pain management		
<input type="checkbox"/> <b>Pain mgt</b> if SBP ≥ 90 (MAP≥ 65): <b>FENTANYL</b> standard dose per IMC		
<input type="checkbox"/> <b>Nausea:</b> <b>ONDANSETRON</b> standard dose per IMC		
<b>Exposure/environment</b>		
<input type="checkbox"/> Discretely undress patient to inspect appropriate body areas; protect patient modesty		
<input type="checkbox"/> Maintain body warmth		
*Identify time-sensitive priority patients/make transport decision to appropriate hospital		
<b>SECONDARY ASSESSMENT</b>		
<b>Vital signs</b>		

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<input type="checkbox"/> *BP (MAP); obtain 1 <sup>st</sup> manually, trend pulse pressure; orthostatic changes prn <input type="checkbox"/> *Pulse: rate, quality, rhythmicity <input type="checkbox"/> *Resp: rate, pattern, depth <input type="checkbox"/> Temp based on skin		
<b>History of present illness/trauma</b> <input type="checkbox"/> Onset <input type="checkbox"/> *Quality <input type="checkbox"/> *Severity <input type="checkbox"/> *Provocation/palliation <input type="checkbox"/> *Region/Radiation <input type="checkbox"/> *Time <input type="checkbox"/> Associated complaints		
<b>*SAMPLE history</b> from patient/family/bystanders <input type="checkbox"/> Allergies <input type="checkbox"/> Past medical hx <input type="checkbox"/> *Events leading to injury/MOI <input type="checkbox"/> Medications <input type="checkbox"/> Last meal/LMP <input type="checkbox"/> Age <input type="checkbox"/> Approx wt.		
<b>PHYSICAL EXAM (Review of Systems) – must touch the patient</b>		
<b>Head/eyes, ear, nose throat (HEENT)</b> <input type="checkbox"/> Inspect: DCAP-BLS, drainage from eyes, nose, mouth (open/close jaw)/malocclusion, face, scalp, ears <input type="checkbox"/> *Palpate: skull, orbits, nasal and facial bones		
<b>Neck: May temporarily remove anterior c-collar to assess neck</b> <input type="checkbox"/> *Inspect: DCAP, BLS; jugular veins; sub-q emphysema <input type="checkbox"/> *Palpate: position of trachea; C-spines, carotid pulses		
<b>Chest</b> <input type="checkbox"/> *Inspect: DCAP-BLS <input type="checkbox"/> *Palpate TIC <input type="checkbox"/> *Auscultate breath/heart sounds <input type="checkbox"/> Discover injuries: trauma to thoracic aorta; fractured ribs, hemothorax, pneumothorax		
<b>Abdomen/pelvis - in correct order</b> <input type="checkbox"/> *Inspect <input type="checkbox"/> Auscultate bowel sounds <input type="checkbox"/> *Palpate <input type="checkbox"/> Discover S&S of injury/peritonitis by quadrant: contour, visible pulsations, pain referral sites, localized tenderness, guarding, rigidity; evidence of rebound tenderness <input type="checkbox"/> <b>PELVIS/GU:</b> Inspect perineum for blood at urinary meatus/rectum <input type="checkbox"/> Assesses for pelvic fractures if not done already; apply upside down KED		
<b>Lower extremities</b> <input type="checkbox"/> *Inspect for position, false motion, skin color, and signs of injury <input type="checkbox"/> *Palpate <input type="checkbox"/> *Assesses SMV status of each limb		
<b>Upper extremities</b> <input type="checkbox"/> Inspect for position, false motion, skin color, and signs of injury <input type="checkbox"/> *Palpate <input type="checkbox"/> *Assesses SMV status of each limb		
<b>Posterior thorax/flank and buttocks</b> <input type="checkbox"/> *Inspect <input type="checkbox"/> *Palpate (assess for muscle spasms)		
<b>Neurologic</b> <b>*Mental status:</b> affect, behavior, cognition (verbalizes); memory/orientation; GCS, RTS <b>Cranial nerves (Select)</b> <input type="checkbox"/> *Visual acuity <input type="checkbox"/> EOMs <input type="checkbox"/> Hearing <input type="checkbox"/> *Pupil size, shape, equality <input type="checkbox"/> Facial sensation <input type="checkbox"/> Gag <input type="checkbox"/> *Pupil reactivity to light <input type="checkbox"/> Facial movement/symmetry/eyelid closing <input type="checkbox"/> Stick out tongue <b>Cerebellar exam:</b> Assess for ataxia <input type="checkbox"/> <b>Upper extremities:</b> Have pt touch their index finger to their nose and then reach out to touch examiner's finger; OR perform alternating movements by rapidly pronating and supinating hands; OR bring fingers to thumb in rapid succession <input type="checkbox"/> <b>Lower extremities:</b> Have pt slide heel of one foot rapidly up and down shin of opposite leg.		
<b>Skin: Integumentary assessment</b> (integrated above) color (variation), moisture, temp, texture, turgor, lesions/burns; breakdown; hair distribution;		
*State paramedic impression:		
Verbalize treatment plan using appropriate SOP		
*Select appropriate receiving hospital based on trauma triage criteria		
<b>Actual total time to complete assessment in minutes</b>		
<b>On-going assessment</b>		
Repeat initial (primary) assessment		
Evaluate response to treatments		
Reassess VS/pt. responses. Every transported pt. should have at least 2 sets of VS. <input type="checkbox"/> <b>Stable:</b> At least q. 15 min & after each drug/cardiorespiratory intervention; last set should be taken shortly before arrival at receiving facility <input type="checkbox"/> <b>Unstable:</b> More frequent reassessments; continue to reassess all abnormal VS & physical findings		

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>OLMC REPORT</b>			
<b>Identification</b>			
<input type="checkbox"/> *Hospital being contacted <input type="checkbox"/> *EMS provider agency and unit #; call back number			
<input type="checkbox"/> *Age, gender, approximate weight of patient <input type="checkbox"/> *Level of consciousness (conscious/unconscious responds to ....)			
<b>Chief complaint S&amp;S:</b>			
<input type="checkbox"/> Onset <input type="checkbox"/> *Region/radiation/recurrence <input type="checkbox"/> *Provokes/palliates <input type="checkbox"/> *Severity 0-10 <input type="checkbox"/> *Quality <input type="checkbox"/> *Time			
Associated complaints			
<b>History</b>			
<input type="checkbox"/> *Allergies <input type="checkbox"/> *Medications (current): time and amount of last dose if applicable <input type="checkbox"/> *Past medical history (pertinent) <input type="checkbox"/> Last oral intake, LMP if indicated <input type="checkbox"/> *Events leading up to present illness/injury (history of present illness)			
<b>Vital signs</b>			
<input type="checkbox"/> *BP: <input type="checkbox"/> *Respirations: rate, pattern, depth, effort <input type="checkbox"/> *SpO <sub>2</sub> ; capnography <input type="checkbox"/> *Pulse: rate, regularity, quality			
*Physical examination; include pertinent positive and negative findings			
<input type="checkbox"/> HEENT <input type="checkbox"/> Abdomen <input type="checkbox"/> Extremities <input type="checkbox"/> Skin <input type="checkbox"/> Chest <input type="checkbox"/> Pelvis/GU <input type="checkbox"/> Back			
<b>Treatments initiated</b> prior to hospital contact (ITC) and pt response to treatment			
ETA			
<b>CRITICAL CRITERIA in addition to starred items</b>			
<input type="checkbox"/> Failure to initiate or call for transport of the patient within 10 minute time limit <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to determine scene safety <input type="checkbox"/> Failure to assess for and provide spinal protection when indicated <input type="checkbox"/> Failure to voice and ultimately provide high concentration of oxygen <input type="checkbox"/> Failure to assess/provide adequate ventilation <input type="checkbox"/> Failure to find or appropriately manage problems associated with airway, breathing, hemorrhage or shock [hypoperfusion] <input type="checkbox"/> Failure to differentiate pt's need for immediate transport vs cont. assessment/treatment at scene <input type="checkbox"/> Does secondary assessment before assessing/treating threats to airway, breathing, and circulation <input type="checkbox"/> Failure to manage the patient as a competent paramedic <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention			

**Factually document your rationale for checking any of the above Critical Criteria items**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS/NCH Paramedic Program Skill Performance Record**  
**Neuro Assessment: Stroke**

Name:	Lab Buddy:
Date:	# attempts:

**Instructions to the participant:** You have 10 minutes to assess the patient, verbalize the prehospital interventions that are indicated and determine the most appropriate receiving hospital (Comprehensive or Primary Stroke Center).

Performance standard	YES	No
* Scene size up/safety; Determine nature of illness; scan environment for clues; apply appropriate BSI		
Determine need for additional assistance		
<b>PRIMARY ASSESSMENT</b>		
* <b>Airway:</b> Assess for impairment and assure patency <input type="checkbox"/> Manual airway maneuvers if needed <input type="checkbox"/> Verbalize if adjuncts are needed for airway access/control (BLS or ALS) <input type="checkbox"/> Aspiration risk? Verbalize seizure/vomiting precautions; suction would be standing by		
<b>Breathing/ventilatory/gas exchange status; assess for impairment</b> <input type="checkbox"/> *Assess for spontaneous ventilations; general rate (normal, fast or slow) <input type="checkbox"/> *Assess depth; effort/WOB; accessory muscle use <input type="checkbox"/> Assess position, adequacy of air movement, symmetry of chest expansion, retractions <input type="checkbox"/> Lung sounds if in ventilatory distress <input type="checkbox"/> * <b>Assess gas exchange;</b> apply SpO <sub>2</sub> monitor; assess for hypoxia, cardiorespiratory or neurological compromise. Note before & after O <sub>2</sub> if able. Note signs of hypoxia <input type="checkbox"/> *Assess ETCO <sub>2</sub> number& waveform if possible ventilatory, perfusion, metabolic compromise Verbalize if ventilatory assistance is needed w/ BVM		
<input type="checkbox"/> * <b>Correct hypoxia/</b> assure adequate ventilations: Target SpO <sub>2</sub> : 94%. If ≥94%: NO Oxygen <input type="checkbox"/> <b>O<sub>2</sub> 1-6 L/NC:</b> Adequate rate/depth; minimal distress; SpO <sub>2</sub> 92%-94% (88%-91% COPD) <input type="checkbox"/> <b>O<sub>2</sub> 12-15 L/NRM:</b> Adequate rate/depth: mod/severe distress; SpO <sub>2</sub> < 92%; (<88% COPD) <input type="checkbox"/> <b>O<sub>2</sub> 15 L/ BVM:</b> Apnea and/or shallow/inadequate rate/depth with moderate/severe distress; unstable. Adults: 1 breath every 6 sec (10 breaths/minute)		
<b>Circulatory</b> status; assess for impairment <input type="checkbox"/> *Pulses for presence, general rate/quality/rhythmicity <input type="checkbox"/> Skin (color, temperature, moisture, turgor) <input type="checkbox"/> *Verbalize need for ECG monitor: rhythm ID and 12 L for evidence of acute/old changes <input type="checkbox"/> *Assess need for immediate IV (DAI, hypoglycemia, hypotension); defer most IV starts to enroute <input type="checkbox"/> Verbalize OLMC may request lg. bore antecubital IV as CT prep; NS TKO		
<b>Disability: explore causes of AMS</b> <input type="checkbox"/> If generalized tonic/clonic seizure activity: Observe and record per SOP p. 37 <input type="checkbox"/> <b>MIDAZOLAM</b> usual dosing for seizures <input type="checkbox"/> *Assess glucose level (verbalizes) <input type="checkbox"/> If hypoglycemic: <b>D10%</b> per SOP <input type="checkbox"/> * <b>Assess GCS:</b> Eyes                      Verbal;                      Motor                      Total:		
<b>Exposure/environment</b> <input type="checkbox"/> Discretely undress pt to inspect approp body areas <input type="checkbox"/> Protect pt modesty, maintain body warmth		
<b>SECONDARY ASSESSMENT</b>		
<b>Vital signs</b> <input type="checkbox"/> *BP/MAP: <input type="checkbox"/> *Pulse: <input type="checkbox"/> Resp: <input type="checkbox"/> Temperature		
<b>Obtain chief complaint:</b> <input type="checkbox"/> <b>Severe HA</b> <input type="checkbox"/> Weakness, heaviness, paralysis of face/extremity <input type="checkbox"/> Vomiting <input type="checkbox"/> Visual disturbance <input type="checkbox"/> Dizziness/vertigo <input type="checkbox"/> Sensory changes <input type="checkbox"/> Balance problems/incoordination <input type="checkbox"/> Speech difficulties:		
<b>History of present illness</b> <input type="checkbox"/> *Onset (suddenly) <input type="checkbox"/> Severity <input type="checkbox"/> Provocation/palliation <input type="checkbox"/> * <b>Time last seen normal</b> <3.5; 3.5-6; or > 6 hours <input type="checkbox"/> Quality <input type="checkbox"/> Clarifying questions re: assoc. complaints <input type="checkbox"/> Region/radiation <input type="checkbox"/> Date of birth;                      approx. wt		

Performance standard	YES	No
<b>SAMPLE history:</b> *Allergies (meds, environment, foods)		
<b>*Medications</b> <b>Anti-hypertensive agents:</b> <input type="checkbox"/> ACE Inhibitor <input type="checkbox"/> Beta blocker <input type="checkbox"/> Diuretics; <input type="checkbox"/> ARB; <input type="checkbox"/> Ca <sup>++</sup> blocker <input type="checkbox"/> Other anti-hypertensives; <input type="checkbox"/> none <b>Cholesterol reducing drugs:</b> <input type="checkbox"/> Statin <input type="checkbox"/> Niacin <input type="checkbox"/> Fibrate <input type="checkbox"/> Absorption Inhibitor; <input type="checkbox"/> none <input type="checkbox"/> <b>Anticoagulants:</b> warfarin/Coumadin; apixaban/Eliquis; argatroban; dabigatran/Pradaxa; desirudin/Iprivask; edoxaban/Savaysa; enoxaparin/Lovenox; fondaparinux/Arixtra; *full dose LMW heparin; lepirudin (Refludan); rivaroxaban / Xarelto <input type="checkbox"/> Platelet inhibitors: Aspirin; clopidogrel / Plavix; ASA/dipyridamole / Aggrenox; prasugel / Effient; ticagrelor / Brilinta; ticlopidine (Ticlid) <input type="checkbox"/> <b>Diabetic drugs;</b> <input type="checkbox"/> Insulin; <input type="checkbox"/> Oral agents; <input type="checkbox"/> Other subcutaneous/injectable agents <input type="checkbox"/> Antidepressants <input type="checkbox"/> Cocaine and other vasoconstrictors, e.g. amphetamines: PCP (Phencyclidine AKA angel dust, ozone, wack, rocket fuel) <input type="checkbox"/> Oral contraceptives; hormone replacement therapy (HRT) <input type="checkbox"/> <b>Others:</b>		
<b>Past Medical History</b> <input type="checkbox"/> None <input type="checkbox"/> A-Fib/Flutter <input type="checkbox"/> <b>AV malformation, tumor, aneurysm</b> <input type="checkbox"/> Bleeding disorders: Protein S & C deficiency; Sickle cell disease; Polycythemia; Hemophilia <input type="checkbox"/> CAD/Prior MI: Heart/vascular disease <input type="checkbox"/> Carotid stenosis <input type="checkbox"/> Current Pregnancy (or up to 6 weeks post- partum) <input type="checkbox"/> Depression <input type="checkbox"/> Diabetes <input type="checkbox"/> Drugs/Alcohol Abuse <input type="checkbox"/> Dyslipidemia <input type="checkbox"/> Family hx stroke <input type="checkbox"/> HF <input type="checkbox"/> HRT <input type="checkbox"/> Hypertension <input type="checkbox"/> Migraine <input type="checkbox"/> Obesity <input type="checkbox"/> Previous stroke <input type="checkbox"/> Previous TIA: <input type="checkbox"/> <b>Previous intracranial surgery/bleed</b> <input type="checkbox"/> Serious head trauma <input type="checkbox"/> *Prosthetic valve <input type="checkbox"/> PVD <input type="checkbox"/> Renal failure <input type="checkbox"/> Sleep apnea <input type="checkbox"/> Smoker <input type="checkbox"/> Other:		
<b>Last oral intake</b>		
<b>Event surrounding this incident</b>		
<b>Quick stroke screen</b> <input type="checkbox"/> <b>*Assess for abnormal speech:</b> ("You can't teach an old dog new tricks") <input type="checkbox"/> Dysarthria (right words, slurred) <input type="checkbox"/> Expressive aphasia <input type="checkbox"/> Receptive aphasia		
<b>Head</b> <input type="checkbox"/> *Ask about double vision; vertigo, dizziness, photophobia or sound sensitivity <b>Cranial nerves:</b> Note if loss/deficit on Rt – Left- or both; describe deficits <input type="checkbox"/> *Visual acuity <input type="checkbox"/> Visual fields <input type="checkbox"/> *EOMs (gaze palsy) <input type="checkbox"/> *Pupil size, shape, equality <input type="checkbox"/> Facial sensation <input type="checkbox"/> Hearing deficit <input type="checkbox"/> *Pupil reactivity to light <input type="checkbox"/> <b>*Facial weakness</b> (show teeth, raise eyebrows, close eyes) <input type="checkbox"/> Hoarse voice <input type="checkbox"/> Gag <input type="checkbox"/> Stick out tongue		
<b>Chest</b> Auscultate breath sounds		
<b>Abdomen/pelvis</b> - in correct order <input type="checkbox"/> Inspect (contour) (verbalizes) <input type="checkbox"/> Palpate (guarding, rigidity)		
<b>Lower extremities</b> <input type="checkbox"/> Palpate <input type="checkbox"/> Assesses SMV status of each limb R L <input type="checkbox"/> <input type="checkbox"/> *Weakness (leg drift) <input type="checkbox"/> <input type="checkbox"/> *Ataxia: Have pt run heel of one foot down shin of opposite leg <input type="checkbox"/> <input type="checkbox"/> <b>*SENSORY Normal; partial, severe deficit (describe)</b>		
<b>Upper extremities</b> <input type="checkbox"/> Palpate <input type="checkbox"/> Assesses SMV status of each limb R L <input type="checkbox"/> <input type="checkbox"/> *Weakness ( <b>arm drift</b> ; some efforts against gravity; no effort against gravity; no movement) <input type="checkbox"/> <input type="checkbox"/> *Ataxia: Ask pt to perform rapid alternating movement or touch finger to nose (light on an object) <input type="checkbox"/> <input type="checkbox"/> <b>*SENSORY Normal; partial, severe deficit (describe)</b>		

Performance standard	YES	No
<b>Skin: Integumentary assessment</b> (integrated above) color (variation), moisture, temp, texture, turgor, lesions/breakdown; hair distribution; nails (clubbing)		
<b>Psychological/social assessment</b>		
<b>*Correct paramedic impression:</b> (Acute stroke)		
<b>Verbalize treatment plan</b> <input type="checkbox"/> *Maintain head/neck in neutral alignment; do not use pillows. <input type="checkbox"/> Aspiration precautions: Elevate head of bed 10° - 15°. <input type="checkbox"/> Provide comfort & reassurance <input type="checkbox"/> *Limit activity; do not allow walking; protecting limbs from injury.		
<b>Decision tree for transport: Patient presents with S&amp;S new onset stroke</b> <input type="checkbox"/> Unstable? → Nearest hospital <input type="checkbox"/> <b>Comprehensive Stroke Center</b> (either of top two criteria, then consider travel time) <input type="checkbox"/> Onset 3.5 - 6 hours <input type="checkbox"/> GCS ≤8 or severe HA or anticoagulant use w/in 48 hrs or PMH of ICH/aneurysm <input type="checkbox"/> Travel time ≤30 min scene to CSC <input type="checkbox"/> <b>Closest Stroke Center (Comprehensive or Primary)</b> <input type="checkbox"/> Onset <3.5 or > 6 hours with acute S&S of stroke <input type="checkbox"/> Criteria for Comprehensive, but > 30 minutes from closest CSC		
<b>Critical Criteria - Check if occurred during an attempt</b> Failure to initiate or call for transport of the patient within 10 minute time limit Failure to take or verbalize body substance isolation precautions Failure to determine scene safety before approaching patient Failure to voice and ultimately provide appropriate oxygen therapy Failure to assess/provide adequate ventilation Failure to find or appropriately manage problems associated with airway, breathing, hypoperfusion Does Secondary assessment before assessing and treating threats to airway, breathing, and circulation Failure to determine the primary problem/accurately do stroke screen and recognize stroke equivalents Uses or orders a dangerous or inappropriate intervention Exhibits unacceptable affect with patient or other personnel	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**Factually document below your rationale for checking any of the above critical criteria.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**MANUAL AIRWAY MANEUVERS**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** You are asked to open the airway of a patient who has snoring ventilations.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>HEAD-TILT, CHIN-LIFT MANEUVER</b>		
*Identify S&S of upper airway impairment.		
<input type="checkbox"/> *State indications for this maneuver (upper airway impairment)		
<input type="checkbox"/> *Affirm no contraindications to this maneuver (no c-spine or jaw injury) <input type="checkbox"/> Put on gloves		
*Position patient supine.		
Place one hand on pt's forehead; apply firm, downward pressure with the palm of the hand tilting the head backwards. Place fingertips of the other hand underneath the anterior mandible.		
*Pull the chin forward, supporting the jaw and tilting the head backward as far as possible. <b>Do not compress the soft tissues underneath the chin; this may obstruct the airway.</b>		
Continue to press the other hand on the pt's forehead to keep head tilted backward		
Lift the chin so the teeth are brought nearly together. (may use the thumb to depress the lower lip; this allows the patient's mouth to remain slightly open)		
If pt has dentures; hold them in position, making obstruction by the lips less likely. (It is easier to maintain a seal when dentures are in place. If the dentures cannot be managed, remove them.)		
*Assesses airway patency: look, listen and feel for unobstructed air movement and spontaneous ventilations.		
<input type="checkbox"/> If successful, state need for an OPA or NPA to hold airway open.		
<input type="checkbox"/> If unsuccessful, state need to try patient repositioning, suction, or ALS interventions		
<b>JAW-THRUST MANEUVER</b>		
<input type="checkbox"/> *State indications for maneuver (upper airway impairment w/ possible C-spine injury)		
<input type="checkbox"/> Affirm no contraindications to this maneuver (no jaw injury) <input type="checkbox"/> Put on gloves		
*Position patient supine.		
<input type="checkbox"/> *Kneel at the top of the patient's head. Place hands along each side of the patient's jaw.		
<input type="checkbox"/> *Grasp angles of jaw on both sides. Without moving neck, lift jaw forward to pull tongue away from posterior oropharynx.		
Use thumb to retract the lower lip if the lips are closed.		
*Assesses airway patency: look, listen and feel for unobstructed air movement and spontaneous ventilations.		
<input type="checkbox"/> *If unable to open the airway reposition jaw and attempt again.		
<input type="checkbox"/> If successful, state need for an OPA or NPA to hold airway open.		
<input type="checkbox"/> If unsuccessful, state need to try patient repositioning, suction, or ALS interventions.		
<b>Critical Criteria: Check if occurred during an attempt</b>		
<input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions		
<input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm		
<input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**OROPHYARNGEAL AIRWAY (OPA)**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult appears unconscious with snoring respirations. You are asked to assemble the equipment, choose the correct size adjunct from those available, and insert an oral airway.

**Equipment needed:** Airway manikin; various sizes OPAs, tongue blades, suction catheters, BSI

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/> *State indications for this airway (upper airway impairment; need for BVM assist)		
<input type="checkbox"/> *Affirm no contraindications to this airway		
<input type="checkbox"/> Intact gag reflex <input type="checkbox"/> Oral trauma <input type="checkbox"/> Epiglottitis		
* Apply BSI (gloves/goggles)		
<b>Prepare patient</b> Explain procedure to patient - even if unconscious		
* Position patient supine		
Obtain SpO <sub>2</sub> reading on room air if time permits		
* Use appropriate manual maneuver to open airway		
Clear mouth and pharynx of secretions, blood, or vomitus with suction prn		
* Confirm absence of gag reflex by assessing lash reflex or glabellar tap		
<b>Prepare equipment:</b> * Sizing: Measure vertical distance from front of teeth to angle of jaw		
<b>Perform procedure</b> Support pt's head with one hand; open mouth w/ cross-finger technique		
<input type="checkbox"/> *Depress tongue with a tongue blade.		
<input type="checkbox"/> *Insert airway along curvature of tongue until it approaches posterior oropharynx and points downward. Distal end should rest behind the base of the tongue in the oropharynx.		
<input type="checkbox"/> *Flange should rest on pt's lips. Verify tongue or lips are not caught between teeth and airway.		
* Verify airway patency by closing nose and feeling for air movement through mouth. Auscultate bilateral breath sounds.		
Reassess VS and SpO <sub>2</sub>		
Verbalize two complications: <input type="checkbox"/> Induction of gag/vomiting <input type="checkbox"/> Obstruction from misplaced airway <input type="checkbox"/> Swelling of epiglottis <input type="checkbox"/> Intraoral injuries		
Verbalize steps to take if patient gags: (remove airway and ready suction)		
<b>Critical Criteria: Check if occurred during an attempt</b> Failure to take or verbalize appropriate body substance isolation precautions Performs any improper technique resulting in the potential for patient harm Exhibits unacceptable affect with patient or other personnel	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**NASOPHARYNGEAL AIRWAY (NPA)**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult appears unconscious with snoring respirations. You are asked to assemble the equipment, choose the correct size adjunct from those available, and insert a nasopharyngeal airway.

**Equipment needed:** Airway manikin; various sizes NPAs, lubricant, suction catheters, BSI

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>State indications:</b> upper airway impairment; need for suctioning, BVM assist where gag is still intact		
* <b>Affirm no contraindications</b> for inserting this airway <input type="checkbox"/> Midface or above trauma/obstruction <input type="checkbox"/> Anterior basilar skull fx		
* Apply BSI (gloves/goggles)		
<b>Prepare patient</b> Explain procedure to patient - even if unresponsive		
Obtain SpO <sub>2</sub> reading on room air if time permits		
* Use appropriate manual maneuver to open airway		
<b>Prepare equipment:</b> * Select appropriate airway length by measuring from tip of nose to ear lobe.		
* Lubricate airway w/ water-soluble jelly		
<b>Perform procedure</b> * Elevate tip of nose and gently insert tube into right nostril. Bevel to septum only applies to insertion on right side.		
* Advance gently along floor of nasal passage until flange is against nostril. If resistance is met, withdraw airway and attempt on other side.		
Open mouth to check airway position		
* Assess airway patency by closing mouth and feeling for air movement through the airway. Reassess VS & SpO <sub>2</sub> .		
* Verbalize steps if resistance is met: (withdraw airway and try other side)		
* Verbalize at least two complications: <input type="checkbox"/> Nasal bleeding <input type="checkbox"/> Tissue trauma <input type="checkbox"/> Gagging <input type="checkbox"/> Vomiting <input type="checkbox"/> Gastric distention if airway is too long		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**OROPHARYNGEAL SUCTIONING**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult's mouth is filled with blood. You are asked to assemble the equipment, choose the correct catheter from those available, and perform oropharyngeal suctioning.

**Equipment needed:** Airway manikin; various sizes suction catheters, suction unit, BSI

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>State indications for procedure:</b> Secretions in mouth, nose or pharynx		
* Universal plus droplet precautions (gloves/face shield)		
<b>Prepare patient</b> Explain steps of procedure to patient		
Obtain SpO <sub>2</sub> on room air if available and time allows		
* Preoxygenate patient prior to suctioning if time allows		
<b>Prepare equipment:</b> Inspect suction unit for power and proper assemblage		
* Select appropriate suction catheter (flexible or rigid); attach to suction tubing		
<b>Perform procedure</b> Open mouth using cross-finger technique		
<input type="checkbox"/> Turn power on to high. <input type="checkbox"/> Kink tubing and ensure that unit achieves vacuum of 300 mmHg.		
Without applying suction <input type="checkbox"/> Insert suction catheter no deeper than pharynx. <input type="checkbox"/> If DuCanto tip, insert w/ convex side along roof of mouth.		
* Apply suction using a gentle twisting motion while limiting suction application to 10 sec on an adult and 5 sec in a child		
Refrain from jabbing catheter up and down while applying suction		
* Reoxygenate patient with O <sub>2</sub> 15 L/NRM or BVM		
Verbalize: Flush the suction catheter with NS or water between suction attempts to remove any material that could clog ports		
Verbalize 2 complications if suction were applied improperly or for too long: <input type="checkbox"/> *Hypoxia <input type="checkbox"/> Atelectasis <input type="checkbox"/> *Bradycardia <input type="checkbox"/> Hypotension <input type="checkbox"/> Tissue trauma <input type="checkbox"/> ↑ ICP		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**TRACHEAL SUCTIONING**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is intubated. You note secretions in the ET tube. You are asked to assemble the equipment, choose the correct catheter from those available, and perform tracheal suctioning.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
* Universal plus droplet precautions (gloves/face shield)		
Verbalize indications for tracheal suction: secretions impairing airway in an intubated patient		
<b>Prepare patient</b>		
Explain steps of procedure to patient even if unconscious		
Obtain SpO <sub>2</sub> on room air if time allows		
* Preoxygenate patient prior to suctioning if time allows		
* Connect patient to cardiac monitor		
<b>Prepare equipment:</b>		
<input type="checkbox"/> Suction kit, suction catheter; suction source		
<input type="checkbox"/> Inspect suction unit for power and proper assemblage.		
<input type="checkbox"/> Set suction between 80-120 mmHg if suction source is adjustable.		
* Select appropriate size suction catheter (approx. ½ ID of the TT).		
* Using sterile technique, open suction kit and catheter packaging. Apply one sterile glove on dominant hand. Using sterile hand, lift catheter from packaging and wrap catheter around sterile hand. Maintain sterility of the catheter.		
* Using non-dominant hand, connect catheter to suction tubing.		
* Turn power on to high		
<b>Perform procedure</b>		
* Without applying suction, insert catheter into ETT. Advance catheter until resistance is met or pt coughs taking no longer than 2-3 sec to advance catheter.		
* Apply suction while withdrawing the catheter in a twisting motion limiting suction application and catheter insertion time to 10 sec in adult and 5 sec in child.		
* Refrain from jabbing catheter up and down while applying suction		
* Reoxygenate patient with 15 L O <sub>2</sub> /BVM		
Verbalize at least 2 complications if suction were applied for too long:		
<input type="checkbox"/> *Hypoxia <input type="checkbox"/> Atelectasis <input type="checkbox"/> *Bradycardia		
<input type="checkbox"/> Hypotension <input type="checkbox"/> Tissue trauma <input type="checkbox"/> ↑ ICP		
<b>Critical Criteria: Check if occurred during an attempt</b>		
<input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions		
<input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation		
<input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm		
<input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**REMOVAL of FOREIGN BODY by Video LARYNGOSCOPY**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is found unconscious, non-breathing with a pulse. Manual attempts to clear the airway have been unsuccessful. You are asked to assemble the equipment and perform direct laryngoscopy to remove the foreign body.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
Continue manual attempts while preparing for direct laryngoscopy. Verbalize appropriate indications for performing this skill		
*Universal precautions: gloves, face shield		
<b>Prepare the patient</b> Place patient's head in sniffing position placing pad under occiput		
Assess SpO <sub>2</sub> on room air if time allows		
*Attempt to ventilate patient/BVM (Unsuccessful)		
<b>Prepare equipment</b> <input type="checkbox"/> Assemble Ling Vision; ensure it is operational. <input type="checkbox"/> DuCanto suction catheter		
<b>Removal</b> Insert King Vision per usual and customary technique		
* Visualize glottic opening and surrounding structures		
* If F/B is seen, grasp and carefully remove with Magill forceps and/or suction		
* Observe for residual F/B & return of spontaneous ventilations for 5 seconds		
<b>Airway management when spontaneous ventilations resume</b> <input type="checkbox"/> Remove laryngoscope blade <input type="checkbox"/> O <sub>2</sub> at 12-15 L/NRM <input type="checkbox"/> *Continue to monitor VS & SpO <sub>2</sub>		
<b>Airway management when spontaneous ventilations DO NOT resume (verbalize)</b> <input type="checkbox"/> Attempt to ventilate with a BVM <input type="checkbox"/> *Unable to ventilate: Attempt intubation using standard procedure <input type="checkbox"/> *Unable to insert ETT: Attempt alternate airway <input type="checkbox"/> *Unable to insert King or ventilate effectively: Cricothyrotomy		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**VIDEO LARYNGOSCOPY INTUBATION w/ KING VISION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is found in bed with apnea. No trauma is suspected. Prepare the equipment and intubate the patient.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* Takes or verbalizes BSI precautions: gloves, goggles, facemask		
<b>Prepare patient</b>		
<input type="checkbox"/> Open the airway manually <input type="checkbox"/> *Elevate tongue, insert BLS adjuncts: NPA or OPA unless contraindicated		
Assess SpO <sub>2</sub> on RA if time and personnel allow; auscultate breath sounds for baseline		
* <b>Preoxygenate</b> /ventilate for 3 min w/ O <sub>2</sub> 12-15 L/BVM with O <sub>2</sub> reservoir; at 10 BPM unless asthma/COPD (6-8 BPM); squeeze bag over 1 sec with sufficient volume to see chest rise (~400-600mL) – avoid high pressure & gastric distention. Ventilate with room air until O <sub>2</sub> source available.		
Assess for signs suggesting a difficult intubation: neck/mandible mobility, oral trauma, loose teeth; F/B; ability to open mouth, Mallampati view, thyromental distance; overbite		
<b>Selects, checks, assembles equipment</b>		
Have everything ready before placing blade into mouth <input type="checkbox"/> Prepare suction equipment (DuCanto rigid and flexible catheters); turn on to ✓ unit; suction prn <input type="checkbox"/> King Vision & Blade (curved channeled) <input type="checkbox"/> ETT 7.0 & 7.5 (must fit into channeled blade) <input type="checkbox"/> Bougie; 10mL syringe, water-soluble lubricant <input type="checkbox"/> EtCO <sub>2</sub> , commercial tube holder, head blocks or tape, stethoscope <input type="checkbox"/> Have alternate airway selected, prepped, & in sight (King LT/i-gel) & Salem sump tube		
* Check ETT cuff integrity while in package; fill syringe w/ 10 mL of air; leave attached to pilot tubing		
Place lubricant inside channel of King vision Blade		
* Assemble King Vision; ensure it is operational. Load tube into lubricated channel; load bougie inside tube. Ensure tube and bougie do not extend past channel in blade		
<b>Intubate:</b> * (Allow no more than 30 sec of apnea)		
<input type="checkbox"/> Maintain O <sub>2</sub> 6 L/NC during procedure <input type="checkbox"/> Assistant or examiner stops ventilating pt; withdraws OPA (NPA remains) <input type="checkbox"/> Have partner apply lip retraction, external laryngeal pressure <input type="checkbox"/> Monitor VS, level of consciousness, skin color, ETCO <sub>2</sub> , (SpO <sub>2</sub> if perfusing rhythm) q. 5 min. during procedure; time elapsed		
<b>START TIMING tube placement after last breath</b> _____		
<input type="checkbox"/> Open mouth w/ cross finger technique <input type="checkbox"/> *Insert King Vision blade midline over tongue (holding blade just above channeled portion, not on large handle portion below screen) until epiglottis is visualized <input type="checkbox"/> *Seat blade in vallecula; do not lift! It is a non-displacing device. Visualize epiglottis, posterior cartilages, and/or vocal cords.		
<b>*Insert bougie</b>		
Advance bougie through glottis under direct visualization. If needed, twist bougie, like a pencil, to left or right to guide between cords. Avoid forceful insertion – can cause tracheal trauma/perforation. <b>*Confirmation of bougie placement into trachea</b> <input type="checkbox"/> Clicking/vibration sensation felt (60-95% of cases) when bougie tip rubs against anterior tracheal rings (tip must be oriented anteriorly) <input type="checkbox"/> If inserted into esophagus, no clicking/vibration is felt and tip easily advances well beyond 40 cm		
<b>*Insertion of ET tube</b>		
<input type="checkbox"/> Maintain view with King Vision in place and advance ETT over bougie and through glottis <input type="checkbox"/> Rotate ETT to facilitate insertion through cords into trachea if resistance met at glottic opening or cricoid ring.		

<p style="text-align: center;"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p style="text-align: center;"><b>Attempt 1 rating</b></p>	<p style="text-align: center;"><b>Attempt 2 rating</b></p>
<p><b>*If &gt; 30 sec: of apnea;</b> remove king vision, reoxygenate X 30 sec. If pt remains good candidate for ETI, change position, blade, or PM and attempt again. May go straight to King LT if unable to visualize anything.</p>		
<p><b>*Once ETT inserted to proper depth (3X tube ID at teeth), firmly hold ETT in place, remove from channel by taking tube to corner of mouth. Carefully remove blade from mouth and bougie from ETT.</b></p>		
<p><b>* Confirm tracheal placement:</b></p> <p><input type="checkbox"/> Ensure adequate ventilations &amp; oxygenation: 15 L O<sub>2</sub>: ventilate as needed at 10 BPM unless asthma/COPD (6-8 BPM)–observe chest rise; auscultate over epigastrium, both midaxillary lines and anterior chest X 2.</p> <p><input type="checkbox"/> <b>Definitive confirmation: monitor ETCO<sub>2</sub> number &amp; waveform.</b></p> <p><input type="checkbox"/> <b>Time of tube confirmation:</b> (Seconds of apnea)_____</p>		
<p><b>Troubleshooting</b></p> <p><input type="checkbox"/> *If breath sounds only on right, withdraw ETT slightly and listen again.</p> <p><input type="checkbox"/> *If in esophagus: remove ETT, reoxygenate 30 sec; repeat from insertion of blade with new tube</p> <p><input type="checkbox"/> *If ETT cannot be placed successfully (2 attempts) or nothing can be visualized; attempt extraglottic airway.</p>		
<p><b>If tube placed correctly</b></p> <p><input type="checkbox"/> *If breath sounds present and equal bilaterally, <b>inflate cuff</b> w/ up to 10 mL air to proper pressure (minimal leak) &amp; remove syringe</p> <p><input type="checkbox"/> Note ET depth: diamond on ETT level w/ teeth or gums (3 X ID ETT)</p> <p><input type="checkbox"/> * Insert OPA; align ETT with side of mouth; secure ETT with commercial tube holder; apply lateral head immobilization.</p>		
<p><b>If secretions in tube or gurgling sounds with exhalation: suction prn</b></p> <p><input type="checkbox"/> Select a flexible suction catheter</p> <p><input type="checkbox"/> Preoxygenate patient</p> <p><input type="checkbox"/> Mark maximum insertion length with thumb and forefinger</p> <p><input type="checkbox"/> Insert catheter into the ET tube leaving catheter port open</p> <p><input type="checkbox"/> At proper insertion depth , cover catheter port and applies suction while withdrawing catheter</p> <p><input type="checkbox"/> Ventilate/direct ventilation of patient (NO SALINE FLUSH)</p>		
<p><b>* Reassess:</b> Frequently monitor SpO<sub>2</sub>, EtCO<sub>2</sub>, tube depth, VS, &amp; lung sounds enroute to detect displacement, complications (esp. after pt movement), or condition change  If intubated &amp; deteriorates, consider: <b>Displacement of tube, Obstruction of tube, Pneumothorax, Equipment failure (DOPE)</b></p>		
<p><input type="checkbox"/> <b>Post-intubation sedation:</b> If pt remains unconscious but begins to bite the ETT, give <b>midazolam</b> in 2 mg increments IVP as needed up to total of 20 mg for post-intubation sedation</p> <p><input type="checkbox"/> If pt restless, tachycardic, consider need for pain medication.</p>		
<p><b>State complications of the procedure:</b></p> <p><input type="checkbox"/> Post-intubation <b>hyperventilation:</b> Use watch, clock, timing device</p> <p><input type="checkbox"/> <b>Barotrauma:</b> pneumothorax &amp; tension pneumothorax; esophageal perforation</p> <p><input type="checkbox"/> Trauma to teeth or soft tissues</p> <p><input type="checkbox"/> Undetected esophageal intubation      <input type="checkbox"/> Mainstem intubation</p> <p><input type="checkbox"/> Hypoxia, dysrhythmia                      <input type="checkbox"/> <b>Over sedation</b></p>		
<p><b>*Critical Criteria: Check if occurred during an attempt (automatic fail)</b></p> <p><input type="checkbox"/> Failure to initiate ventilations within 30 seconds after applying gloves or interrupts ventilations for greater than 30 seconds at any time</p> <p><input type="checkbox"/> Failure to take or verbalize body substance isolation precautions</p> <p><input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentrations [at least 85%]</p> <p><input type="checkbox"/> Failure to ventilate patient at appropriate rate</p> <p><input type="checkbox"/> Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible]</p> <p><input type="checkbox"/> Failure to pre-oxygenate patient prior to intubation and suctioning</p> <p><input type="checkbox"/> Failure to successfully intubate within 2 attempts without immediately providing alternate airway</p> <p><input type="checkbox"/> Failure to disconnect syringe <b>immediately</b> after inflating cuff of ET tube</p> <p><input type="checkbox"/> Uses teeth as a fulcrum</p> <p><input type="checkbox"/> Failure to assure proper tube placement by capnography and auscultation of chest bilaterally <b>and</b> over the epigastrium</p> <p><input type="checkbox"/> Inserts any adjunct in a manner dangerous to the patient</p> <p><input type="checkbox"/> Suctions patient excessively or does not suction the patient when needed</p> <p><input type="checkbox"/> Failure to manage the patient as a competent paramedic</p> <p><input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel</p> <p><input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention</p>		

*Factually document below your rationale for checking any of the above critical criteria.*

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 9/18

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Preceptor (PRINT NAME – signature)

**NWC EMSS Skill Performance Record**  
**IN-LINE INTUBATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An unconscious adult with a possible c-spine injury is found apneic. Prepare equipment and intubate using the in-line technique.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* BSI: Gloves, goggles, facemask		
* Takes or verbalizes BSI precautions: gloves, goggles, facemask		
<b>Prepare patient</b>		
<input type="checkbox"/> Open the airway manually using spine precautions		
<input type="checkbox"/> *Insert BLS adjuncts: NPA or OPA unless contraindicated		
Assess SpO <sub>2</sub> on RA if time and personnel allow; auscultate breath sounds for baseline		
* <b>Preoxygenate/ventilate for 3 min</b> w/ O <sub>2</sub> 12-15 L/BVM with O <sub>2</sub> reservoir; at 10 BPM unless asthma/COPD (6-8 BPM); squeeze bag over 1 sec with sufficient volume to see chest rise (~400-600mL) – avoid high pressure & gastric distention. Ventilate with room air until O <sub>2</sub> source available.		
Assess for signs suggesting a difficult intubation: neck/mandible mobility, oral trauma, loose teeth; F/B; ability to open mouth, Mallampati view, thyromental distance; overbite		
<b>Selects, checks, assembles equipment</b>		
Have everything ready before placing blade into mouth		
<input type="checkbox"/> Prepare suction equipment (DuCanto rigid and flexible catheters); turn on to ✓ unit; suction prn		
<input type="checkbox"/> King Vision & Blade (curved channeled)		
<input type="checkbox"/> ETT 7.0 & 7.5 (must fit into channeled blade)		
<input type="checkbox"/> Bougie; 10mL syringe, water-soluble lubricant		
<input type="checkbox"/> EtCO <sub>2</sub> , commercial tube holder, head blocks or tape, stethoscope		
<input type="checkbox"/> Have alternate airway selected, prepped, & in sight (King LT/i-gel) & Salem sump tube		
* Check ETT cuff integrity while in package; fill syringe w/ 10 mL of air; leave attached to pilot tubing		
Place lubricant inside channel of King vision blade		
* Assemble King Vision; ensure it is operational. Load tube into lubricated channel; load bougie inside tube. Ensure tube and bougie do not extend past channel in blade		
<b>Pass tube:</b> * (Allow no more than 30 sec of apnea)		
<input type="checkbox"/> *Intubator: positions self at head of pt and straddles pt head between legs or kneels with pt head between knees		
<input type="checkbox"/> 2 <sup>nd</sup> person positions self to side of pt and provides neck stabilization by placing their thumbs on pt maxillae & circling fingers around side of pt's head and neck		
<input type="checkbox"/> If another assistant available: Apply lip retraction, external laryngeal pressure		
<input type="checkbox"/> Maintain O <sub>2</sub> 6 L/NC during procedure; stop ventilating pt; withdraw OPA (NPA remains); open front of c-collar		
<input type="checkbox"/> Monitor VS, level of consciousness, skin color, ETCO <sub>2</sub> , (SpO <sub>2</sub> if perfusing rhythm) q. 5 min. during procedure; time elapsed		
<b>START TIMING tube placement after last breath</b> _____		
<input type="checkbox"/> Intubator: Open mouth w/ cross finger technique		
<input type="checkbox"/> *Insert King Vision blade midline over tongue (holding blade just above channeled portion, not on large handle portion below screen) until epiglottis is visualized		
<input type="checkbox"/> *Seat blade in vallecula; do not lift! It is a non-displacing device. Visualize epiglottis, posterior cartilages, and/or vocal cords.		
<b>*Insert bougie</b>		
Advance bougie through glottis under direct visualization. If needed, twist bougie, like a pencil, to left or right to guide between cords. Avoid forceful insertion – can cause tracheal trauma/perforation.		
<input type="checkbox"/> Clicking/vibration sensation felt (60-95% of cases) when bougie tip rubs against anterior tracheal rings (tip must be oriented anteriorly)		
<input type="checkbox"/> If inserted into esophagus, no clicking/vibration is felt and tip easily advances well beyond 40 cm		

<p style="text-align: center;"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p style="text-align: center;"><b>Attempt 1 rating</b></p>	<p style="text-align: center;"><b>Attempt 2 rating</b></p>
<p><b>*Insert ET tube</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Maintain view with King Vision in place and advance ETT over bougie and through glottis</li> <li><input type="checkbox"/> Rotate ETT to facilitate insertion through cords into trachea if resistance met at glottic opening or cricoid ring.</li> </ul>		
<p><b>*If &gt; 30 sec: of apnea;</b> remove king vision, reoxygenate X 30 sec. If pt remains good candidate for ETI, change position, blade, or PM and attempt again. May go straight to King LT if unable to visualize anything.</p>		
<p><b>*Once ETT inserted to proper depth (3X tube ID at teeth), firmly hold ETT in place, remove from channel by taking tube to corner of mouth. Carefully remove blade from mouth and bougie from ETT.</b></p>		
<p><b>* Confirm tracheal placement:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Ensure adequate ventilations &amp; oxygenation: 15 L O<sub>2</sub> ventilate as needed at 10 BPM unless asthma/COPD (6-8 BPM)– observe chest rise; auscultate over epigastrium, both midaxillary lines and anterior chest X 2.</li> <li><input type="checkbox"/> <b>Definitive confirmation: monitor ETCO<sub>2</sub> number &amp; waveform.</b></li> <li><input type="checkbox"/> <b>Time of tube confirmation:</b> (Seconds of apnea)_____</li> </ul>		
<p><b>Troubleshooting</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> *If breath sounds only on right, withdraw ETT slightly and listen again.</li> <li><input type="checkbox"/> *If in esophagus: remove ETT, reoxygenate 30 sec; repeat from insertion of blade with new tube</li> <li><input type="checkbox"/> *If ETT cannot be placed successfully (2 attempts) or nothing can be visualized; attempt extraglottic airway.</li> </ul>		
<p><b>If tube placed correctly</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> *If breath sounds present and equal bilaterally, <b>inflate cuff</b> w/ up to 10 mL air to proper pressure (minimal leak) &amp; remove syringe</li> <li><input type="checkbox"/> Note ET depth: diamond on ETT level w/ teeth or gums (3 X ID ETT)</li> <li><input type="checkbox"/> *Insert OPA; align ETT with side of mouth; secure ETT with commercial tube holder; reattach anterior c-collar; apply lateral head immobilization.</li> </ul>		
<p><b>If secretions in tube or gurgling sounds with exhalation: suction prn</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Select a flexible suction catheter</li> <li><input type="checkbox"/> Preoxygenate patient</li> <li><input type="checkbox"/> Mark maximum insertion length with thumb and forefinger</li> <li><input type="checkbox"/> Insert catheter into the ET tube leaving catheter port open</li> <li><input type="checkbox"/> At proper insertion depth , cover catheter port and applies suction while withdrawing catheter</li> <li><input type="checkbox"/> Ventilate/direct ventilation of patient (NO SALINE FLUSH)</li> </ul>		
<p><b>* Reassess:</b> Frequently monitor SpO<sub>2</sub>, EtCO<sub>2</sub>, tube depth, VS, &amp; lung sounds enroute to detect displacement, complications (esp. after pt movement), or condition change  If intubated &amp; deteriorates, consider: <b>Displacement of tube, Obstruction of tube, Pneumothorax, Equipment failure (DOPE)</b></p>		
<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Post-intubation sedation:</b> If pt remains unconscious but begins to bite the ETT, give <b>midazolam</b> in 2 mg increments IVP as needed up to total of 20 mg for post-intubation sedation.</li> <li><input type="checkbox"/> If pt restless, tachycardic, consider need for pain medication.</li> </ul>		
<p><b>State complications of the procedure:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Post-intubation <b>hyperventilation:</b> Use watch, clock, timing device</li> <li><input type="checkbox"/> <b>Barotrauma:</b> pneumothorax &amp; tension pneumothorax; esophageal perforation</li> <li><input type="checkbox"/> Trauma to teeth or soft tissues</li> <li><input type="checkbox"/> Undetected esophageal intubation</li> <li><input type="checkbox"/> Hypoxia, dysrhythmia</li> <li><input type="checkbox"/> Mainstem intubation</li> <li><input type="checkbox"/> <b>Over sedation</b></li> </ul>		
<p><b>*Critical Criteria: Check if occurred during an attempt (automatic fail)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Failure to initiate ventilations within 30 seconds after applying gloves or interrupts ventilations for greater than 30 seconds at any time</li> <li><input type="checkbox"/> Failure to take or verbalize body substance isolation precautions</li> <li><input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentrations [at least 85%]</li> <li><input type="checkbox"/> Failure to ventilate patient at appropriate rate</li> <li><input type="checkbox"/> Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible]</li> <li><input type="checkbox"/> Failure to pre-oxygenate patient prior to intubation and suctioning</li> <li><input type="checkbox"/> Failure to successfully intubate within 2 attempts without immediately providing alternate airway</li> <li><input type="checkbox"/> Failure to disconnect syringe <b>immediately</b> after inflating cuff of ET tube</li> <li><input type="checkbox"/> Uses teeth as a fulcrum</li> <li><input type="checkbox"/> Failure to assure proper tube placement by capnography and auscultation of chest bilaterally <b>and</b> over the epigastrium</li> <li><input type="checkbox"/> Inserts any adjunct in a manner dangerous to the patient</li> </ul>		

<b>Performance standard</b>		<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/>	Suctions patient excessively or does not suction the patient when needed		
<input type="checkbox"/>	Failure to manage the patient as a competent paramedic		
<input type="checkbox"/>	Exhibits unacceptable affect with patient or other personnel		
<input type="checkbox"/>	Uses or orders a dangerous or inappropriate intervention		

**Factually document below your rationale for checking any of the above critical criteria.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 9/18

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Preceptor (PRINT NAME – signature)

**NWC EMSS Skill Performance Record**  
**DRUG-ASSISTED VIDEO LARYNGOSCOPY INTUBATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An awake adult has severe dyspnea and exhaustion from HF or asthma. Prepare equipment and intubate using DAI procedure.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
* Takes or verbalizes BSI precautions: gloves, goggles, facemask		
<b>Prepare patient</b>		
<input type="checkbox"/> Open the airway manually		
<input type="checkbox"/> *Insert BLS adjuncts: NPA or OPA unless contraindicated		
Assess SpO <sub>2</sub> on RA if time and personnel allow; auscultate breath sounds for baseline		
* <b>Preoxygenate</b> /ventilate for 3 min w/ O <sub>2</sub> 12-15 L/BVM with O <sub>2</sub> reservoir; at 10 BPM unless asthma/COPD (6-8 BPM); squeeze bag over 1 sec with sufficient volume to see chest rise (~400-600mL) – avoid high pressure & gastric distention. Ventilate with room air until O <sub>2</sub> source available.		
Assess for signs suggesting a difficult intubation: neck/mandible mobility, oral trauma, loose teeth; F/B; ability to open mouth, Mallampati view, thyromental distance; overbite		
<b>Selects, checks, assembles equipment</b>		
Have everything ready before placing blade into mouth		
<input type="checkbox"/> Prepare suction equipment (DuCanto rigid and flexible catheters); turn on to ✓ unit; suction prn		
<input type="checkbox"/> King Vision & Blade (curved channeled)		
<input type="checkbox"/> ETT 7.0 & 7.5 (must fit into channeled blade)		
<input type="checkbox"/> Bougie; 10mL syringe, water-soluble lubricant		
<input type="checkbox"/> Capnography, commercial tube holder, head blocks or tape, stethoscope		
<input type="checkbox"/> Have alternate airway selected, prepped, & in sight (King LT/i-gel) & Salem sump tube		
* Check ETT cuff integrity while in package; fill syringe w/ 10 mL of air; leave attached to pilot tubing		
Place lubricant inside channel of King vision Blade		
* Assemble King Vision; ensure it is operational. Load tube into lubricated channel; load bougie inside tube. Ensure tube and bougie do not extend past channel in blade.		
<b>Premedicate if applicable</b>		
<input type="checkbox"/> Fentanyl per SOP for pain (not needed if ketamine used for sedative)		
<b>Sedate:</b>		
<input type="checkbox"/> * <b>Etomidate</b> 0.5 mg/kg IVP (max 40 mg) OR		
<input type="checkbox"/> * <b>Ketamine</b> (asthma and children) 2 mg/kg slow IVP (over one min) or 4 mg/kg IM or IN		
Allow for clinical response before intubating (if possible)		
<b>Pass tube:</b> * (Allow no more than 30 sec of apnea)		
<input type="checkbox"/> Maintain O <sub>2</sub> 6 L/NC during procedure; stop ventilating pt; withdraw OPA (NPA remains)		
<input type="checkbox"/> Have partner apply lip retraction, external laryngeal pressure		
<input type="checkbox"/> Monitor VS, level of consciousness, skin color, ETCO <sub>2</sub> , (SpO <sub>2</sub> if perfusing rhythm) q. 5 min. during procedure; time elapsed		
<b>START TIMING tube placement after last breath</b> _____		
<input type="checkbox"/> Open mouth w/ cross finger technique		
<input type="checkbox"/> *Insert King Vision blade midline over tongue (holding blade just above channeled portion, not on large handle portion below screen) until epiglottis is visualized		
<input type="checkbox"/> *Seat blade in vallecula; do not lift! It is a non-displacing device. Visualize epiglottis, posterior cartilages, and/or vocal cords.		
<b>*Insert bougie</b>		
Advance bougie through glottis under direct visualization. If needed, twist bougie, like a pencil, to left or right to guide between cords. Avoid forceful insertion – can cause tracheal trauma/perforation.		
<input type="checkbox"/> Clicking/vibration sensation felt (60-95% of cases) when bougie tip rubs against anterior tracheal rings (tip must be oriented anteriorly)		

<p style="text-align: center;"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p style="text-align: center;"><b>Attempt 1 rating</b></p>	<p style="text-align: center;"><b>Attempt 2 rating</b></p>
<input type="checkbox"/> If inserted into esophagus, no clicking/vibration is felt and tip easily advances well beyond 40 cm		
<p><b>**Insert ET tube</b></p> <input type="checkbox"/> Maintain view with King Vision in place and advance ETT over bougie and through glottis <input type="checkbox"/> Rotate ETT to facilitate insertion through cords into trachea if resistance met at glottic opening or cricoid ring.		
<p><b>*If &gt; 30 sec: of apnea;</b> remove king vision, reoxygenate X 30 sec. If pt remains good candidate for ETI, change position, blade, or PM and attempt again. May go straight to King LT if unable to visualize anything.</p>		
<p>* Once ETT is inserted to proper depth (3X tube ID at teeth), firmly hold ETT in place, remove tube from channel by taking tube to corner of the mouth. Carefully remove blade from mouth and bougie from ETT.</p>		
<p><b>* Confirm tracheal placement:</b></p> <input type="checkbox"/> Ensure adequate ventilations & oxygenation: 15 L O <sub>2</sub> : ventilate as needed at 10 BPM unless asthma/COPD (6-8 BPM)–observe chest rise; auscultate over epigastrium, both midaxillary lines and anterior chest X 2. <input type="checkbox"/> <b>Definitive confirmation: monitor ETCO<sub>2</sub> number &amp; waveform.</b> <input type="checkbox"/> <b>Time of tube confirmation:</b> (Seconds of apnea)_____		
<p><b>Troubleshooting</b></p> <input type="checkbox"/> *If breath sounds only on right, withdraw ETT slightly and listen again. <input type="checkbox"/> *If in esophagus: remove ETT, reoxygenate 30 sec; repeat from insertion of blade with new tube <input type="checkbox"/> *If ETT cannot be placed successfully (2 attempts) or nothing can be visualized; attempt extraglottic airway.		
<p><b>If tube placed correctly</b></p> <input type="checkbox"/> *If breath sounds present and equal bilaterally, <b>inflate cuff</b> w/ up to 10 mL air to proper pressure (minimal leak) & remove syringe <input type="checkbox"/> Note ET depth: diamond on ETT level w/ teeth or gums (3 X ID ETT) <input type="checkbox"/> *Insert OPA; align ETT with side of mouth; secure ETT with commercial tube holder; apply lateral head immobilization.		
<p><b>If secretions in tube or gurgling sounds with exhalation: suction prn</b></p> <input type="checkbox"/> Select a flexible suction catheter <input type="checkbox"/> Preoxygenate patient <input type="checkbox"/> Mark maximum insertion length with thumb and forefinger <input type="checkbox"/> Insert catheter into the ET tube leaving catheter port open <input type="checkbox"/> At proper insertion depth , cover catheter port and applies suction while withdrawing catheter <input type="checkbox"/> Ventilate/direct ventilation of patient (NO SALINE FLUSH)		
<p><b>* Reassess:</b> Frequently monitor SpO<sub>2</sub>, EtCO<sub>2</sub>, tube depth, VS, &amp; lung sounds enroute to detect displacement, complications (esp. after pt movement), or condition change  If intubated &amp; deteriorates, consider: <b>Displacement of tube, Obstruction of tube, Pneumothorax, Equipment failure (DOPE)</b></p>		
<input type="checkbox"/> <b>Post-intubation sedation:</b> If pt remains unconscious but begins to bite the ETT, give <b>midazolam</b> in 2 mg increments IVP as needed up to total of 20 mg for post-intubation sedation <input type="checkbox"/> If pt restless, tachycardic, consider need for pain medication.		
<p><b>State complications of the procedure:</b></p> <input type="checkbox"/> Post-intubation <b>hyperventilation:</b> Use watch, clock, timing device <input type="checkbox"/> <b>Barotrauma:</b> pneumothorax & tension pneumothorax; esophageal perforation <input type="checkbox"/> Trauma to teeth or soft tissues <input type="checkbox"/> Undetected esophageal intubation <input type="checkbox"/> Mainstem intubation <input type="checkbox"/> Hypoxia, dysrhythmia <input type="checkbox"/> <b>Over sedation</b>		
<p><b>*Critical Criteria: Check if occurred during an attempt (automatic fail)</b></p> <input type="checkbox"/> Failure to initiate ventilations within 30 seconds after applying gloves or interrupts ventilations for greater than 30 seconds at any time <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentrations [at least 85%] <input type="checkbox"/> Failure to ventilate patient at appropriate rate <input type="checkbox"/> Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible] <input type="checkbox"/> Failure to pre-oxygenate patient prior to intubation and suctioning <input type="checkbox"/> Failure to successfully intubate within 2 attempts without immediately providing alternate airway <input type="checkbox"/> Failure to disconnect syringe <b>immediately</b> after inflating cuff of ET tube		

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/>	Uses teeth as a fulcrum		
<input type="checkbox"/>	Failure to assure proper tube placement by capnography and auscultation of chest bilaterally and over the epigastrium		
<input type="checkbox"/>	Inserts any adjunct in a manner dangerous to the patient		
<input type="checkbox"/>	Suctions patient excessively or does not suction the patient when needed		
<input type="checkbox"/>	Failure to manage the patient as a competent paramedic		
<input type="checkbox"/>	Exhibits unacceptable affect with patient or other personnel		
<input type="checkbox"/>	Uses or orders a dangerous or inappropriate intervention		

***Factually document below your rationale for checking any of the above critical criteria.***

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 9/18

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Preceptor (PRINT NAME – signature)

**NWC EMSS Skill Performance Record**  
**DIGITAL INTUBATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An unconscious adult is found apneic. The patient has copious amount of secretions and the cords cannot be visualized. Prepare equipment to perform a digital intubation.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>* BSI: Gloves, goggles, facemask</b>		
<b>Prepare the patient</b>		
<input type="checkbox"/> *Confirm unresponsiveness & no protective airway reflexes <input type="checkbox"/> Consider c-spine injury – if yes, open airway with spine motion restriction; assess breathing <input type="checkbox"/> *Insert BLS adjuncts: NPA or OPA unless contraindicated		
Assess SpO <sub>2</sub> on RA if time and personnel allow; auscultate breath sounds for baseline		
<b>*Preoxygenate/ventilate for 3 min w/ O<sub>2</sub> 12-15 L/ BVM with O<sub>2</sub> reservoir at 10 BPM unless asthma/COPD (6-8 BPM); squeeze bag over 1 sec with sufficient volume to see chest rise (~400-600mL) – avoid high pressure &amp; gastric distention. Ventilate with room air until O<sub>2</sub> source available.</b>		
<b>Selects, checks, assembles equipment</b>		
Have everything ready before placing fingers into mouth		
<input type="checkbox"/> Prepare suction equipment (DuCanto and flexible catheters); turn on to ✓ unit; suction prn <input type="checkbox"/> Select ETT (size of 5 <sup>th</sup> finger); prepare one size larger and one smaller than anticipated size <input type="checkbox"/> Capnography, commercial tube holder, head blocks or tape, stethoscope <input type="checkbox"/> Have alternate airway selected, prepped, & in sight (King LT/i-gel)		
<b>* Check ETT cuff integrity while in package; fill syringe w/ 10 mL of air; leave attached to pilot tubing</b>		
Place lubricant on inside of the top of the ETT package		
<b>Pass tube:</b> * (Allow no more than 30 sec of apnea)		
<input type="checkbox"/> Maintain O <sub>2</sub> 6 L/NC during procedure <input type="checkbox"/> Assistant or examiner stops ventilating pt; withdraws OPA (NPA remains) <input type="checkbox"/> Have partner apply lip retraction, external laryngeal pressure <input type="checkbox"/> Monitor VS, level of consciousness, skin color, ETCO <sub>2</sub> , (SpO <sub>2</sub> if perfusing rhythm) q. 5 min. during procedure; time elapsed		
<b>START TIMING tube placement after last breath _____</b>		
<input type="checkbox"/> Intubator: Position self at pt's (left) side <input type="checkbox"/> * Place OPA between molars to prevent pt from biting during procedure		
<input type="checkbox"/> *Withdraw tube from package; hold in dominant hand <input type="checkbox"/> *Insert middle and index fingers of nondominant hand into pt's mouth. Walk fingers along back of the tongue until the epiglottis is palpated in the midline. <input type="checkbox"/> *Palpate arytenoid cartilage posterior to glottis. Locate epiglottis with middle finger (flap of cartilage covered by mucous membrane)		
<b>* Introduce ETT &amp; guide into pharynx. Guide tip of ETT through vocal cords with index finger and advance into trachea</b>		
<b>*If &gt; 30 sec: of apnea; remove fingers, reoxygenate X 30 sec. If pt remains good candidate for ETI, change position or PM and attempt again. May go straight to King LT if unable to feel anything.</b>		
<b>* Confirm tracheal placement:</b>		
<input type="checkbox"/> Ensure adequate ventilations & oxygenation: 15 L O <sub>2</sub> assist ventilations as needed at 10 BPM unless asthma/COPD (6-8 BPM)–observe chest rise; Auscultate over epigastrium, both midaxillary lines and anterior chest X 2 <input type="checkbox"/> <b>Definitive confirmation: monitor ETCO<sub>2</sub> number &amp; waveform.</b> Continue to monitor continuously. <input type="checkbox"/> <b>Time of tube confirmation:</b> (Seconds of apnea)_____		
<b>Troubleshooting</b>		

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/> *If breath sounds only on right, withdraw ETT slightly and listen again. <input type="checkbox"/> *If incorrectly placed: remove ETT, reoxygenate 30 sec; repeat with new tube from insertion of fingers <input type="checkbox"/> *If ETT cannot be placed successfully (2 attempts) attempt extraglottic airway			
<b>* If tube placed correctly</b> <input type="checkbox"/> *If breath sounds present and equal bilaterally, <b>inflate cuff</b> w/ up to 10 mL air to proper pressure (minimal leak) & remove syringe <input type="checkbox"/> Note ET depth: diamond on ETT level w/ teeth or gums (3 X ID ETT) <input type="checkbox"/> * Insert OPA; align ETT with side of mouth; secure ETT with commercial tube holder; apply lateral head immobilization.			
<b>If secretions in tube or gurgling sounds with exhalation: suction prn</b> <input type="checkbox"/> Select a flexible suction catheter <input type="checkbox"/> Preoxygenate patient <input type="checkbox"/> Mark maximum insertion length with thumb and forefinger <input type="checkbox"/> Insert catheter into the ET tube leaving catheter port open <input type="checkbox"/> At proper insertion depth , cover catheter port and applies suction while withdrawing catheter <input type="checkbox"/> Ventilate/direct ventilation of patient (NO SALINE FLUSH)			
<b>* Reassess:</b> Frequently monitor EtCO <sub>2</sub> , tube depth, VS, SpO <sub>2</sub> , & lung sounds enroute to detect displacement, complications (esp. after pt movement), or condition change			
<b>State complications of the procedure:</b> <input type="checkbox"/> Post-intubation <b>hyperventilation:</b> Use watch, clock, timing device <input type="checkbox"/> <b>Barotrauma:</b> pneumothorax & tension pneumothorax; esophageal perforation <input type="checkbox"/> Undetected esophageal intubation <input type="checkbox"/> Mainstem intubation <input type="checkbox"/> Hypoxia, dysrhythmia <input type="checkbox"/> Trauma to intubator's fingers			
<b>Critical Criteria: Check if occurred during an attempt (automatic fail)</b> <input type="checkbox"/> Failure to initiate ventilations within 30 seconds after applying gloves or interrupts ventilations for greater than 30 seconds at any time <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentrations [at least 85%] <input type="checkbox"/> Failure to ventilate patient at an appropriate rate <input type="checkbox"/> Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible] <input type="checkbox"/> Failure to pre-oxygenate patient prior to intubation and suctioning <input type="checkbox"/> Failure to successfully provide an airway and effective ventilations <input type="checkbox"/> Failure to disconnect syringe <b>immediately</b> after inflating cuff of ET tube <input type="checkbox"/> Failure to assure proper tube placement by capnography and auscultation of chest bilaterally <b>and</b> over the epigastrium <input type="checkbox"/> Inserts any adjunct in a manner dangerous to the patient <input type="checkbox"/> Suctions patient excessively or does not suction the patient when needed <input type="checkbox"/> Failure to manage the patient as a competent paramedic <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention			

**Factually document below your rationale for checking any of the above critical criteria.**

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**INVERSE or Face-to-face INTUBATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An apneic adult is found pinned behind the steering wheel. Prepare equipment and intubate patient using anterior technique.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>State indications for procedure:</b> A pt who requires intubation but has limited access or is unable to be moved to a position allowing the usual position for intubation		
* Takes or verbalizes BSI precautions: gloves, goggles, facemask		
<b>Prepare patient</b> Open the airway manually; insert BLS adjuncts: NPA or OPA unless contraindicated		
Assess SpO <sub>2</sub> on RA if time and personnel allow; auscultate breath sounds for baseline		
* <b>Preoxygenate/ventilate for 3 min</b> w/ O <sub>2</sub> 12-15 L/BVM with O <sub>2</sub> reservoir at 10 BPM unless asthma/COPD (6-8 BPM); squeeze bag over 1 sec with sufficient volume to see chest rise (~400-600mL) – avoid high pressure & gastric distention. Ventilate with room air until O <sub>2</sub> source available.		
Assess for signs suggesting a difficult intubation: neck/mandible mobility, oral trauma, loose teeth; F/B; ability to open mouth, Mallampati view, thyromental distance; overbite		
<b>Selects, checks, assembles equipment</b>		
Have everything ready before placing blade into mouth <input type="checkbox"/> Prepare suction equipment (DuCanto and flexible catheters); turn on to ✓ unit; suction prn <input type="checkbox"/> King Vision & Blade (curved channeled) <input type="checkbox"/> Select ETT 7.0 & 7.5 (must fit into channeled blade) <input type="checkbox"/> Bougie; 10mL syringe, water-soluble lubricant <input type="checkbox"/> Capnography, commercial tube holder, head blocks or tape, stethoscope <input type="checkbox"/> Have alternate airway selected, prepped, & in sight (King LT/i-gel) & Salem sump tube		
* Check ETT cuff integrity while in package; fill syringe w/ 10 mL of air; leave attached to pilot tubing		
Place lubricant inside channel of King vision Blade		
* Assemble King Vision; ensure it is operational. Load tube into lubricated channel; load bougie inside tube. Ensure tube and bougie do not extend past channel in blade		
<b>Pass the tube</b> (Allow no more than 30 sec of apnea)		
<input type="checkbox"/> Maintain O <sub>2</sub> 6 L/NC during procedure <input type="checkbox"/> Assistant or examiner stops ventilating pt; withdraws OPA (NPA remains) <input type="checkbox"/> Have partner apply lip retraction, external laryngeal pressure <input type="checkbox"/> Monitor VS, level of consciousness, skin color, ETCO <sub>2</sub> , (SpO <sub>2</sub> if perfusing rhythm) q. 5 min. during procedure; time elapsed		
<b>START TIMING tube placement after last breath</b> _____		
<input type="checkbox"/> Intubator: Position self in front of (facing) pt <input type="checkbox"/> Hold laryngoscope with curved blade in right hand (not left) <input type="checkbox"/> *Insert blade down midline of tongue <input type="checkbox"/> *Observe camera display to visualize cords (anatomy will be reversed compared to standard intubation view)		
<input type="checkbox"/> * Insert bougie through vocal cords per usual procedure <input type="checkbox"/> Pass ETT w/ L hand; pass cuff through cords w/in 30 sec.		
* If > 30 sec: of apnea; remove laryngoscope and bougie, reoxygenate X 30 sec. If pt remains good candidate for ETI, change position, blade, or PM. May go straight to King LT if unable to visualize anything.		
* Once ETT is inserted to proper depth (3X tube ID at teeth), firmly hold in place and carefully remove blade from mouth and bougie from ETT		
<b>* Confirm tracheal placement:</b>		
<input type="checkbox"/> Ensure adequate ventilations & oxygenation: 15 L O <sub>2</sub> assist ventilations as needed at 10 BPM unless asthma/COPD (6-8 BPM)–observe chest rise; Auscultate over epigastrium, both midaxillary lines and anterior chest X 2 <input type="checkbox"/> <b>Definitive confirmation: monitor ETCO<sub>2</sub> number &amp; waveform.</b> Continue to monitor continuously.		

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Troubleshooting</b>			
<input type="checkbox"/> *If breath sounds only on right, withdraw ETT slightly and listen again. <input type="checkbox"/> *If incorrectly placed: remove ETT, reoxygenate 30 sec; repeat from insertion of blade with new tube <input type="checkbox"/> *If ETT cannot be placed successfully (2 attempts) attempt extraglottic airway			
<b>* If tube placed correctly</b>			
<input type="checkbox"/> *If breath sounds present and equal bilaterally, <b>inflate cuff</b> w/ up to 10 mL air to proper pressure (minimal leak) & remove syringe <input type="checkbox"/> Note ET depth: diamond on ETT level w/ teeth or gums (3 X ID ETT) <input type="checkbox"/> *Insert OPA; align ETT with side of mouth; secure ETT with commercial tube holder; apply lateral head immobilization.			
<b>If secretions in tube or gurgling sounds with exhalation: suction prn</b>			
<input type="checkbox"/> Select a flexible suction catheter <input type="checkbox"/> Preoxygenate patient <input type="checkbox"/> Mark maximum insertion length with thumb and forefinger <input type="checkbox"/> Insert catheter into the ET tube leaving catheter port open <input type="checkbox"/> At proper insertion depth , cover catheter port and applies suction while withdrawing catheter <input type="checkbox"/> Ventilate/direct ventilation of patient (NO SALINE FLUSH)			
<b>* Reassess:</b> Frequently monitor EtCO <sub>2</sub> , tube depth, VS, SpO <sub>2</sub> , & lung sounds enroute to detect displacement, complications (esp. after pt movement), or condition change			
<b>State complications of the procedure:</b>			
<input type="checkbox"/> Post-intubation <b>hyperventilation:</b> Use watch, clock, timing device <input type="checkbox"/> <b>Barotrauma:</b> pneumothorax & tension pneumothorax; esophageal perforation <input type="checkbox"/> Trauma to teeth or soft tissues <input type="checkbox"/> C-spine injury <input type="checkbox"/> Undetected esophageal intubation <input type="checkbox"/> Mainstem intubation (R) <input type="checkbox"/> Hypoxia, dysrhythmia			
<b>Critical Criteria: Check if occurred during an attempt (automatic fail)</b>			
<input type="checkbox"/> Failure to initiate ventilations within 30 sec after applying gloves or interrupts ventilations for >30 seconds at any time <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentrations [at least 85%] <input type="checkbox"/> Failure to ventilate patient at appropriate rate <input type="checkbox"/> Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible] <input type="checkbox"/> Failure to pre-oxygenate patient prior to intubation and suctioning <input type="checkbox"/> Failure to successfully provide an airway and effective ventilations <input type="checkbox"/> Failure to disconnect syringe <b>immediately</b> after inflating cuff of ET tube <input type="checkbox"/> Uses teeth as a fulcrum <input type="checkbox"/> Failure to assure proper tube placement by capnography and auscultation of chest bilaterally <b>and</b> over the epigastrium <input type="checkbox"/> Inserts any adjunct in a manner dangerous to the patient <input type="checkbox"/> Suctions patient excessively or does not suction the patient when needed <input type="checkbox"/> Failure to manage the patient as a competent paramedic <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention			

**Factually document below your rationale for checking any of the above critical criteria.**

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**NASAL TRACHEAL INTUBATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult with altered mental status is breathing 4 times a minute. Prepare the equipment and intubate the patient using the nasotracheal technique.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* BSI: Gloves, goggles, facemask		
<b>State indication for procedure:</b> Spontaneously breathing pt who requires advanced airway where orotracheal intubation or use of an alternate airway is not advised		
* <b>State 2 contraindications</b> to this intubation approach <input type="checkbox"/> Apnea <input type="checkbox"/> Midface and anterior basilar skull fx <input type="checkbox"/> Deviated nasal septum or other nasal obstruction		
<b>Prepare the patient</b> <input type="checkbox"/> Confirm need for intubation <input type="checkbox"/> Consider possibility of c-spine injury – if yes, manually open airway with spine precautions; assess breathing <input type="checkbox"/> Insert BLS adjunct: NPA unless contraindicated		
Explain each step as it is performed even if pt appears unconscious		
Assess SpO <sub>2</sub> on RA if time and personnel allow; auscultate breath sounds for baseline		
* <b>Preoxygenate/ventilate for 3 min</b> w/ O <sub>2</sub> 12-15 L/ NMR or BVM with O <sub>2</sub> reservoir at 10 BPM unless asthma/COPD (6-8 BPM); squeeze bag over 1 sec with sufficient volume to see chest rise (~400-600mL) – avoid high pressure & gastric distention. Ventilate with room air until O <sub>2</sub> source available.		
<b>Selects, checks, assembles equipment</b>		
Have everything ready before placing tube into the nose <input type="checkbox"/> Prepare suction equipment (DuCanto and flexible catheters); turn on to ✓ unit; suction prn <input type="checkbox"/> Select ETT (size of 5 <sup>th</sup> finger); prepare one size larger and one smaller than anticipated size <input type="checkbox"/> Capnography, commercial tube holder, head blocks or tape, stethoscope <input type="checkbox"/> Have alternate airway selected, prepped, & in sight (King LT) <input type="checkbox"/> NO STYLET		
* Check ETT cuff integrity while in package; fill syringe w/ 10 mL of air; leave attached to pilot tubing		
Place lubricant on inside of the top of the ETT package		
<b>Pass the tube</b> <input type="checkbox"/> Withdraw tube from pkg through lubricant; hold in dominant hand; do not contaminate ETT <input type="checkbox"/> Tilt up end of nose; *gently insert tube into largest unobstructed (right) nostril  <input type="checkbox"/> Advance tube slowly but firmly into nasal passage along floor of nose with curvature of tube aimed down using slight rotation to aid passage into pharynx. <input type="checkbox"/> <b>If resistance encountered</b> – STOP, withdraw slightly, aim toward floor of nasal passage, try again. Do not force tube. If resistance met again – withdraw tube; prep another ETT and try opposite nostril.		
Inspect mouth to see that ETT has passed through nasopharynx to the oropharynx		
* As tube is advanced, place hand near proximal opening to feel for exhaled air; observe for condensation in tube. Distal tip of ETT should be just over cords.		
* Ask conscious pt to take a deep breath. As pt inhales, apply gentle pressure over thyroid cartilage & advance tube through cords into trachea. (Verbalize that patient may cough as tube goes through cords)		
* <b>Confirm tracheal placement:</b> <input type="checkbox"/> Ensure adequate ventilations & oxygenation: 15 L O <sub>2</sub> assist ventilations as needed at 10 BPM unless asthma/COPD (6-8 BPM)–observe chest rise; Auscultate over epigastrium, both midaxillary lines and anterior chest X 2 <input type="checkbox"/> Definitive confirmation: <b>monitor ETCO<sub>2</sub></b> number & waveform. Continue to monitor continuously.		

<b>Performance standard</b> 0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
<b>Troubleshooting</b> <input type="checkbox"/> *If breath sounds only on right, withdraw ETT slightly and listen again. <input type="checkbox"/> *If incorrectly placed: remove ETT, reoxygenate 30 sec; repeat from insertion with new ETT <input type="checkbox"/> *If ETT cannot be placed successfully (2 attempts) asses need for sedation and extraglottic airway		
<b>* If tube placed correctly</b> <input type="checkbox"/> *If breath sounds present and equal bilaterally, <b>inflate cuff</b> w/ up to 10 mL air to proper pressure (minimal leak) & remove syringe <input type="checkbox"/> Secure ETT with tape		
If secretions in tube or gurgling sounds with exhalation: suction prn <input type="checkbox"/> Select a flexible suction catheter <input type="checkbox"/> Preoxygenate patient <input type="checkbox"/> Mark maximum insertion length with thumb and forefinger <input type="checkbox"/> Insert catheter into the ET tube leaving catheter port open <input type="checkbox"/> At proper insertion depth , cover catheter port and applies suction while withdrawing catheter <input type="checkbox"/> Ventilate/direct ventilation of patient (NO SALINE FLUSH)		
<b>* Reassess:</b> Frequently monitor EtCO <sub>2</sub> , tube depth, VS, SpO <sub>2</sub> , & lung sounds enroute to detect displacement, complications (esp. after pt movement), or condition change		
<b>State at least 2 complications of this procedure</b> <input type="checkbox"/> Epistaxis <input type="checkbox"/> Injury to nasal septum or turbinates <input type="checkbox"/> Retropharyngeal laceration <input type="checkbox"/> Vocal cord injury <input type="checkbox"/> Intracranial placement if pt has a basilar skull fracture <input type="checkbox"/> Avulsion of an arytenoid cartilage <input type="checkbox"/> Esophageal intubation <input type="checkbox"/> Sinus infections		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to initiate ventilations within 30 seconds after applying gloves or interrupts ventilations for greater than 30 seconds at any time <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentrations [at least 85%] <input type="checkbox"/> Failure to ventilate patient at appropriate rate <input type="checkbox"/> Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible] <input type="checkbox"/> Failure to pre-oxygenate patient prior to intubation and suctioning <input type="checkbox"/> Failure to successfully intubate within 3 attempts (2 attempts for NCH) <input type="checkbox"/> Failure to disconnect syringe <b>immediately</b> after inflating cuff of ET tube <input type="checkbox"/> Failure to assure proper tube placement by capnography and auscultation of chest bilaterally <b>and</b> over the epigastrium <input type="checkbox"/> Inserts any adjunct in a manner dangerous to the patient <input type="checkbox"/> Suctions patient excessively or does not suction the patient when needed <input type="checkbox"/> Failure to manage the patient as a competent paramedic <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Factually document below your rationale for checking any of the above critical criteria.**

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**King LTSD Airway**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An unconscious adult is apneic and two attempts at intubation have been unsuccessful, contraindicated, or a less attractive choice. Prepare the equipment and provide an alternate airway using the King LTSD.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
* BSI: Gloves, goggles, facemask		
<b>State indications for extraglottic airway</b> <input type="checkbox"/> Need for an advanced airway where 2 attempts at ETI have been unsuccessful <input type="checkbox"/> S&S of a difficult intubation make ETI less attractive <input type="checkbox"/> Need for CPR where ETI placement cannot be done without interrupting compressions		
<b>*State 4 contraindications</b> <input type="checkbox"/> < 4 ft tall <input type="checkbox"/> +gag reflex <input type="checkbox"/> Aspiration risk <input type="checkbox"/> Esophageal disease <input type="checkbox"/> Caustic ingestion		
<b>Prepare patient:</b> Explain each step as it is performed even though pt appears unconscious		
<b>Preoxygenate with 95% FiO2 for 3 min</b> w/ capnography sensor on BVM <input type="checkbox"/> If pt spontaneously breathing, attempt preoxygenation w/ NRM <input type="checkbox"/> If vent assist needed: Insert NPA/OPA and squeeze bag over 1 sec providing just enough air to see chest rise (~400-600mL) – avoid high pressure & gastric distention. Ventilate at 10 breaths/min (1 every 6 sec); Hx asthma/COPD: ventilate at 6-8 breaths/min		
<b>Prepare equipment – Have everything ready before beginning procedure</b> <input type="checkbox"/> Prepare suction equipment (connect DuCanto); turn on to ✓ unit; suction prn		
<b>TUBE:</b> Choose correct size King LTS-D airway based on pt height <input type="checkbox"/> 3 (Yellow): 4-5 ft <input type="checkbox"/> 4 (Red): 5-6 ft <input type="checkbox"/> 5 (Purple): > 6 ft <input type="checkbox"/> Test cuff (in pkg) by injecting 60 mL of air into cuffs (use syringe in kit) <input type="checkbox"/> Remove all air from both cuffs prior to insertion <input type="checkbox"/> Note cuff minimum & maximum inflation volumes (based on tube size) – look at numbers on side of tube <input type="checkbox"/> Apply water-based lube to beveled distal tip & posterior tube surface; avoid lube near anterior ventilatory openings.		
<b>Confirming &amp; securing equipment:</b> Capnography attached to BVM, tube holder, tape, head immobilizer, stethoscope (put around neck)		
<b>Premedicate if applicable</b> <input type="checkbox"/> Fentanyl per SOP for pain (not necessary if ketamine used for sedative)		
<b>Sedate:</b> Allow for clinical response before intubating (if possible) <input type="checkbox"/> *Etomidate 0.5 mg/kg IVP (max 40 mg)    OR <input type="checkbox"/> *Ketamine (preferred for asthma and children) 2 mg/kg slow IVP (over one min) or 4 mg/kg IM or IN		
<b>INSERT the tube</b> <input type="checkbox"/> Hold King LT at connector with dominant hand <input type="checkbox"/> *With non-dominant hand, hold mouth open and apply chin/tongue lift (hold “like a bass”)		
<b>For pt in spine motion restriction,</b> assistant should prevent head movement by placing thumbs on maxilla & hands around head (in-line maneuver)		
*With King rotated laterally 45°-90° so blue line is touching corner of mouth, introduce tip into mouth & advance behind base of tongue. If difficulty advancing tube: use gauze 4X4 to retract tongue. Never force tube into position.		
As tube tip passes behind tongue, <b>rotate tube to midline</b> (blue line faces chin).		
*Without excessive force, advance until clear tube is no longer visible outside of mouth & color adaptor is aligned with teeth/gums. Insertion depth is critical for a patent airway.		
Let go of tube. If “bounce back” occurs, tube is probably placed incorrectly into a pyriform fossa. Withdraw slightly and reinsert in midline.		
<input type="checkbox"/> * <b>INFLATE</b> cuffs with minimum inflation volume; do not overinflate (an overinflated cuff may put pressure on vascular structures in the neck): 3 (Yellow) 45-60 mL    4 (Red) 60-80 mL    5 (Purple) 70-90 mL <input type="checkbox"/> *Keep pressure on plunger until syringe removed from valve; remove syringe from valve		
<input type="checkbox"/> Attach BVM with capnography sensor to KLTSD <input type="checkbox"/> *Assistant places stethoscope over mid-axillary line. Listen for baseline sounds.		

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/> <b>*AUSCULTATE:</b> While assistant is auscultating lungs; <input type="checkbox"/> *Gently squeeze BVM w/ 15 L O <sub>2</sub> at 10 BPM ( <b>VENTILATE</b> ); <input type="checkbox"/> *Simultaneously slowly <b>WITHDRAW</b> KLTSD until breath sounds heard and ventilation easy/free flowing		
<b>CONFIRM proper tube position</b> (listed in order) <input type="checkbox"/> *Auscultation bilateral breath sounds over midaxillary lines & anterior chest <input type="checkbox"/> *ETCO <sub>2</sub> by capnography		
*If breath sound not heard, remove tube & ventilate with NPA/OPA & BVM *If air leak, add up to 20 mL of air to cuff to just seal volume. Avoid over inflating cuff.		
<b>Preceptor ask, "How would you know if you are delivering appropriate volumes with each ventilation?"</b> (Chest rise, good breath sounds to periphery bilaterally; good capnography number and waveform; SpO <sub>2</sub> if not in card arrest)		
When good ventilations established, note depth markings at proximal end of airway aligned with gums/upper teeth.		
<b>SECURE</b> KLTSD to patient (keeping tube midline in mouth) <input type="checkbox"/> Use tape or commercial tube holder <input type="checkbox"/> DO NOT cover proximal opening of gastric access lumen. <input type="checkbox"/> Do NOT insert OPA (may put pressure on proximal cuff)		
<input type="checkbox"/> *If gastric secretions, vomiting; prolonged BVM ventilations prior to King: insert <b>18 Fr Salem Sump NGT</b> into King gastric access port after confirming King placement <input type="checkbox"/> <b>Measure insertion depth:</b> from nose→ear→xiphoid; lubricate NGT <input type="checkbox"/> Insert into proximal lumen of King & gently advance to measured length; If resistance felt – abort procedure <input type="checkbox"/> <b>IF concern about proper placement (NOT routine/required step)</b> <ul style="list-style-type: none"> <li>○ Attach capnography using ETT adapter (should have no persistent ETCO<sub>2</sub>)</li> <li>○ Inject 60mL air &amp; auscultate over epigastrium</li> <li>○ Insert end into cup of water &amp; observe for bubbling</li> </ul> <input type="checkbox"/> <b>Connect to suction:</b> Continuous @ 30-40 mmHg; Intermittent up to 120 mmHg PRN		
<b>REASSESS:</b> Ventilates patient at proper rate and volume. Frequently to detect displacement and complications (especially after pt. movement or pt. status/condition changes) <input type="checkbox"/> EtCO <sub>2</sub> <input type="checkbox"/> SpO <sub>2</sub> <input type="checkbox"/> HR <input type="checkbox"/> BP <input type="checkbox"/> Lung sounds		
<b>If protective reflexes return:</b> Remove King in an area where suction equipment and the ability to rapidly intubate is present. Deflate both cuffs completely prior to removal		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to initiate ventilations within 30 sec after taking BSI precautions or interrupts ventilations for >30 sec at any time <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentration [at least 85%] <input type="checkbox"/> Failure to ventilate the patient at an appropriate rate <input type="checkbox"/> Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible] <input type="checkbox"/> Failure to pre-oxygenate patient prior to insertion of the supraglottic airway device <input type="checkbox"/> Failure to insert the supraglottic airway device at a proper depth or location within 3 attempts <input type="checkbox"/> Failure to inflate cuffs properly and immediately remove the syringe <input type="checkbox"/> Failure to secure the strap (if present) prior to cuff inflation <input type="checkbox"/> Failure to confirm that pt is being ventilated properly (correct lumen and proper insertion depth) by auscultation bilaterally over lungs and over epigastrium <input type="checkbox"/> Insertion or use of any adjunct in a manner dangerous to the patient <input type="checkbox"/> Failure to manage the patient as a competent paramedic <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

# King LTSD & Gastric Tubes

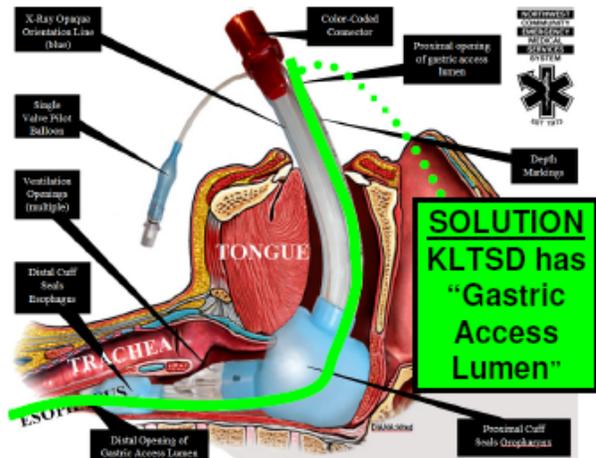
## Problem

### King LTSD

- Does not protect airway, from secretions, as well as ETT
- Pts should be preoxygenated prior to advanced airway, which often requires BVM use
- BVM ventilation may result in gastric distention.....
- 18 fr soft suction catheter is too short to reach the stomach



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**SOLUTION**  
KLTSO has  
"Gastric  
Access  
Lumen"

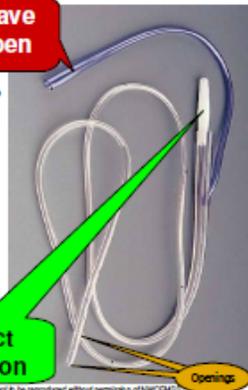
## Salem-Sump® Gastric Tube

### Dual Lumen Gastric Tube

Leave  
Open

1. Secondary lumen (blue pigtail, smaller) vents large lumen  
Open to atmosphere; allows air to be drawn in, which equalizes vacuum in the stomach and prevents suction openings from damaging stomach wall
2. Drainage lumen (larger):  
to suction stomach contents

Connect  
To Suction



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## Gastric Tube & KLTSO

### Indications - when KLTSO in place

- Vomiting
- Gastric distention
- Prolonged BVM ventilation ( $\geq 5$  min) prior

### Contraindications

Same as KLTSO

### NOTE

Insert **AFTER** placement & verification of KLTSO



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## Procedure

1. Measure for insertion depth (Nose → Ear → Xyphoid)
2. Lubricate
3. Insert into proximal lumen & gently advance
  - If resistance felt – abort procedure
4. **IF concern about proper placement (NOT routinely required stop)**
  - Attach capnography using ETT adapter (should have no persistent ETCO<sub>2</sub>)
  - Inject 80mL air & auscultate over epigastrium
  - Insert end into cup of water & observe for bubbling
5. Connect to suction
  - Continuous @ 30-40 mmHg
  - Intermittent up to 120 mmHg PRN



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## Gastric Tube & KLTSO

### How far to insert tube?

Measure from:

- tip of Nose
- around Ear
- down to Xyphoid



Measuring distance from nostril to tip of earlobe.



Measuring distance from earlobe to tip of xyphoid process.

**NWC EMSS Skill Performance Record**  
**i-gel<sup>O2</sup>™ Supraglottic Airway**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An unconscious adult is apneic and two attempts at intubation have been unsuccessful, contraindicated, or a less attractive choice. Prepare the equipment and provide an alternate airway using an i-gel supraglottic airway.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* BSI: Gloves, goggles, facemask		
State intended purpose and advantages of using an i-gel airway: <input type="checkbox"/> <b>Purpose:</b> To create a rapid non-inflatable anatomical seal of the pharyngeal, laryngeal and perilaryngeal structures in providing a supraglottic advanced airway. <input type="checkbox"/> <b>Advantages:</b> Ease and speed of insertion, non-inflating cuff; superior seal; less cuff over pressurization and air leak; better 1 <sup>st</sup> attempt success vs. King LTS-D; stability after insertion (no position change d/t cuff inflation); multiple sizes for all patients; Tactical Combat Casualty Care course choice for extraglottic airway; minimal risk of tissue compression and displacement. <b>Features:</b> Latex free, sterile, single patient use device. The buccal cavity stabilizer has a widened, elliptical, symmetrical and laterally flattened cross sectional shape, providing good vertical stability and axial strength upon insertion. Has a standard airway channel and separate gastric channel		
<b>State indications for extraglottic airway</b> <input type="checkbox"/> Need for an advanced airway in an unconscious patient without a gag reflex where 2 attempts at ETI have been unsuccessful or not advised <input type="checkbox"/> S&S of a difficult intubation make ETI less attractive <input type="checkbox"/> Need for CPR where ETI placement cannot be done without interrupting compressions <input type="checkbox"/> In a difficult or unexpectedly difficult intubation, to pass a bougie blindly through the device into the trachea and to rail-road an ETT over it.		
<b>*State at least 4 contraindications</b> <input type="checkbox"/> +Gag reflex <input type="checkbox"/> Caustic ingestion <input type="checkbox"/> Trismus <input type="checkbox"/> Limited mouth opening <input type="checkbox"/> Pharyngo-perilaryngeal abscess, trauma, or mass		
<b>Precautions</b> <input type="checkbox"/> Do not use excessive force to insert the device or suction catheters/nasogastric tube. <input type="checkbox"/> Inadequate sedation with retained gag reflex may lead to coughing, bucking, excessive salivation, retching, laryngospasm or breath holding. <input type="checkbox"/> Do not reuse or attempt to reprocess the i-gel. <input type="checkbox"/> Patients with any condition which may increase the risk of a full stomach e.g. hiatal hernia, extreme obesity, pregnancy or a history of upper GI surgery etc. Have suction ready.		
<b>Prepare patient:</b> Explain each step as it is performed even though pt appears unconscious <input type="checkbox"/> Sniffing position unless head/neck movement is inadvisable or contraindicated. <input type="checkbox"/> Remove dentures or removable plates from the mouth before attempting insertion.		
<b>Preoxygenate (attempt) with 95% FiO<sub>2</sub> for 3 min w/ capnography sensor on BVM</b> <input type="checkbox"/> If pt spontaneously breathing, attempt preoxygenation w/ NRM <input type="checkbox"/> If assist needed: Insert NPA/OPA and squeeze bag over 1 sec providing just enough air to see chest rise (~400-600mL) – avoid high airway pressure (25cm H <sub>2</sub> O) & gastric distention. <input type="checkbox"/> Ventilate at 10 BPM (1 every 6 sec); Hx asthma/COPD: 6-8 BPM		
<b>Prepare equipment – Have everything ready before beginning procedure</b> <input type="checkbox"/> Prepare suction equipment (connect DuCanto); turn on to ✓ unit; suction prn <input type="checkbox"/> Ensure that laryngeal structures are as dry as possible – suction secretions prior to insertion.		
<b>i-gel device:</b> <input type="checkbox"/> Choose correct <b>size</b> device based on pt size (ideal weight) (see chart page 37) <input type="checkbox"/> <b>Inspect packaging;</b> ensure no damage prior to opening; within expiration date <input type="checkbox"/> <b>Inspect device,</b> check airway patency; confirm no FB or lubricant obstructing distal opening or gastric channel. <input type="checkbox"/> Inspect inside the bowl, ensuring surfaces are smooth and intact & patent gastric channel. <input type="checkbox"/> Discard if airway tube or body of the device looks abnormal or deformed. <input type="checkbox"/> Check the 15mm connector is secure		

<p align="center"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p align="center"><b>Attempt 1 rating</b></p>	<p align="center"><b>Attempt 2 rating</b></p>
<p><b>Prep adult sizes</b></p> <p>In final min of pre-ox, open package; remove device from protective cradle and transfer to same hand holding the cradle. Support device between thumb and index finger (figure 6).</p> <p><b>Place a small amount of a water-based lubricant onto middle of cradle's smooth surface</b> (figure 7).</p> <p>Grasp i-gel at integral bite block area with the opposite (free) hand and lubricate back, sides and front of the cuff by pulling through lubricant. Repeat if lubrication is inadequate. After completed, ensure that no bolus of lubricant remains in the cuff bowl or elsewhere on the device. Avoid touching cuff with your hands (figures 8, 9, 10 and 11); see notes below*.</p> <p><b>Place i-gel back into cradle</b> in preparation for insertion (figure 12).</p> <p><b>Warning: The i-gel must always be separated from the cradle prior to insertion. The cradle is not an introducer and must never be inserted into the patient's mouth.</b></p>		
<p><b>Prep child sizes</b></p> <p>In the final minute of pre-ox, open cage package and remove the device (figure 13).</p> <p>Transfer device into cage lid. <b>Place a small bolus of a water based lubricant onto the smooth inner surface of cage</b> (fig. 14, 15 and 16).</p> <p>Grasp i-gel at integral bite block area with the opposite (free) hand and lubricate back, sides and front of the cuff by pulling through lubricant. Repeat if lubrication is inadequate. After completed, ensure that no bolus of lubricant remains in cuff bowl or elsewhere on the device. Avoid touching the cuff with your hands (figures 17, 18, 19, and 20); see notes below* Place i-gel back into cage pack in prep for insertion (fig 21).</p>		
<p><b>*Notes:</b></p> <ul style="list-style-type: none"> <li>▪ Do not place device directly onto pt's chest or surface near patient's head; always place in protective cradle/cage pack after lubrication, pending insertion.</li> <li>▪ Do not use unsterile gauze or your finger to help lubricate device.</li> <li>▪ Do not apply lubricant too long before insertion (need to maintain moisture).</li> </ul>		
<p><b>Prep confirming &amp; securing equipment:</b> Capnography attached to BVM, tape, tube strap, head immobilizer, stethoscope (put around neck)</p>		
<p><b>Premedicate if applicable</b></p> <p><input type="checkbox"/> Fentanyl per SOP for pain (not necessary if ketamine used for sedative)</p>		
<p><b>Sedate:</b> Optimum sedation must be achieved prior to insertion (absence of gag reflex suggested by lack of eyelash reflex or response to a glabellar tap; easy up and down movement of the lower jaw, no reaction to pressure applied to both angles of the mandible). Allow for clinical response to sedative prior to inserting airway.</p> <p><input type="checkbox"/> <b>*Etomidate</b> 0.5 mg/kg IVP (max 40 mg) OR</p> <p><input type="checkbox"/> <b>*Ketamine</b> (preferred for asthma and children) 2 mg/kg slow IVP (over one min) or 4 mg/kg IM or IN</p>		
<p><b>INSERTION TECHNIQUE (Proficient users can insert in &lt; 5 sec)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Remove i-get from protective cradle or pack</li> <li><input type="checkbox"/> Grasp lubricated i-gel firmly along the integral bite block. Position device so the cuff outlet is facing towards patient's chin.</li> <li><input type="checkbox"/> Gently press down on chin to open mouth (no fingers or thumbs in mouth).</li> <li><input type="checkbox"/> Introduce leading soft tip into pt's mouth in a direction towards hard palate.</li> <li><input type="checkbox"/> Glide the device downwards and backwards along the hard palate with a continuous but gentle push until definitive resistance is felt. Sometimes a feel of 'give-way' is felt before end point resistance is met. This is the due to the passage of the i-gel bowl through the faucial pillars. Continue to insert device until definitive resistance is felt.</li> </ul>		

<p style="text-align: center;"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p style="text-align: center;"><b>Attempt 1 rating</b></p>	<p style="text-align: center;"><b>Attempt 2 rating</b></p>	
<p><b>Do not repeatedly push i-gel up and down or apply excessive force during insertion.</b> If resistance during insertion, do jaw thrust maneuver or deep rotation  For pt in spine motion restriction, prevent head movement by placing thumbs on maxilla &amp; hands around head (in-line maneuver)</p>			
<p>Once definitive resistance met, airway tip should be in the upper esophageal opening and cuff should be against laryngeal framework. Teeth incisors should be resting on integral bite-block*.  No more than 2 attempts per patient.  <b>WARNING:</b> In order to avoid the possibility of the device moving up out of position HOLD tube in correct position until device is secured in place.</p>			
<p>*A horizontal line (adult sizes 3, 4 5 only) at the middle of the integral bite-block represents <b>correct teeth position</b>. If not aligned, remove i-gel and reinsert with a gentle jaw thrust applied by an assistant. If still not resolved, use one size smaller.  Peds sizes (sizes 1 to 2.5) do not have a horizontal line on the integral bite block. This is due to the greater variability in the length of the oro-pharyngeal-laryngeal arch in children. Insertion should continue, as with the adult sizes, until definitive resistance is felt. Teeth may rest anywhere on integral bite block.</p>			
<p><b>Ventilate</b> at proper rate and volume <b>and CONFIRM proper tube position</b> (listed in order)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> *Auscultation bilateral breath sounds over midaxillary lines &amp; anterior chest</li> <li><input type="checkbox"/> *ETCO<sub>2</sub> by capnography</li> <li><input type="checkbox"/> Little gastric air channel leak: excessive leak means device is incompletely inserted.</li> </ul> <p>*If tube NOT positioned accurately and/or no confirmation of breath sounds and ETCO<sub>2</sub>, remove tube &amp; ventilate with NPA/OPA &amp; BVM. May reattempt X 1.</p>			
<p><b>Preceptor ask</b>, "How would you know if you are delivering appropriate volumes with each ventilation?" (Chest rise, good breath sounds to periphery bilaterally; good capnography number and waveform; SpO<sub>2</sub> if not in card arrest)</p>			
<p><b>SECURE</b> tube: When good ventilations and appropriate positioning established, tape in place from 'maxilla to maxilla' (keep tube midline in mouth) or secure with head strap.</p>			
<p>If required, an adequately lubricated, appropriate size NG or <b>suction catheter</b> may be passed down gastric channel (see chart last page of procedure). Place small bolus of lubricant over proximal end of gastric channel prior to inserting suction catheter. Move catheter in and out slightly while inserting to distribute lubricant.</p> <p><b>Do not insert catheter through gastric channel if there is:</b></p> <ul style="list-style-type: none"> <li>▪ An excessive air leak through the gastric channel</li> <li>▪ Esophageal varices or evidence of upper GI bleed</li> <li>▪ Esophageal trauma</li> <li>▪ Hx of upper GI surgery</li> <li>▪ Hx of bleeding/clotting abnormalities</li> </ul> <p>NG insertion in the presence of inadequate levels of sedation can lead to coughing, bucking, excessive salivation, retching, laryngospasm or breath holding</p>			
<p><b>REASSESS:</b> Frequently to detect displacement and complications (especially after pt. movement or pt. status/condition changes)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ETCO<sub>2</sub></li> <li><input type="checkbox"/> Lung sounds</li> <li><input type="checkbox"/> SpO<sub>2</sub> (not in cardiac arrest)</li> <li><input type="checkbox"/> HR</li> <li><input type="checkbox"/> BP</li> </ul>			
<p><b>If protective reflexes return:</b> Remove tube in an area where suction equipment and the ability to rapidly intubate is present.</p>			
<p><b>Troubleshooting:</b></p> <p>Peak airway pressure of ventilation must not exceed 40cm H<sub>2</sub>O in order to prevent barotrauma.  If an excessive air leak is detected during PPV, use one or all of the following:</p> <ul style="list-style-type: none"> <li>▪ Hand ventilate pt with gentle and slow squeezing of the BVM</li> <li>▪ Limit tidal volume to no more than 5mL/kg</li> <li>▪ Limit the peak airway pressure to 15-20cm of H<sub>2</sub>O</li> <li>▪ Assess the depth of sedation to ensure that pt is not bucking the tube</li> </ul> <p>If all of the above fail then change to one size larger i-gel.</p>			
<p><b>Risks and Complications of inserting an i-gel</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Laryngospasm</li> <li><input type="checkbox"/> Sore throat</li> <li><input type="checkbox"/> Tongue numbness</li> <li><input type="checkbox"/> Cyanosis</li> <li><input type="checkbox"/> Trauma to the pharyngo-laryngeal framework</li> <li><input type="checkbox"/> Down-folding of epiglottis (more common in children)</li> <li><input type="checkbox"/> Gastric insufflation, regurgitation and inhalation of the gastric contents</li> </ul>			

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/> Nerve injuries, vocal cord paralysis, lingual or hypoglossal nerve injuries <input type="checkbox"/> If placed too high in the pharynx, may result in a poor seal and cause excessive leakage <input type="checkbox"/> If tip of i-gel enters glottic opening, will have an excessive air leak through gastric channel and obstruction to airflow. If NG or suction catheter is inserted through i-gel gastric channel, it will enter the trachea and lungs. If suspected, remove and reinsert with gentle jaw thrust.			
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to initiate ventilations within 30 sec after taking BSI precautions or interrupts ventilations for >30 sec at any time <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentration [at least 85%] <input type="checkbox"/> Failure to ventilate the patient at an appropriate rate <input type="checkbox"/> Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible] <input type="checkbox"/> Failure to pre-oxygenate patient prior to insertion of the supraglottic airway device <input type="checkbox"/> Failure to insert the supraglottic airway device at a proper depth or location within 2 attempts <input type="checkbox"/> Failure to confirm that pt is being ventilated properly (correct lumen and proper insertion depth) by auscultation bilaterally over lungs and over epigastrium <input type="checkbox"/> Insertion or use of any adjunct in a manner dangerous to the patient <input type="checkbox"/> Failure to manage the patient as a competent paramedic or PHRN <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention			

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 1/19

Preceptor (PRINT NAME – signature)

i-gel size	Patient Size	Pt wt (kg)	(LBS)	Broselow color	NG or Suction size
1.5	Infant	5-12 kg	11-25	Pink, red, purple	10 Fr.
2	Small child	10-25 kg	22-55	Yellow, white, blue	10 Fr.
2.5	Large child	25-35 kg	55-77	Orange	10 Fr.
3	Small adult	30-60 kg	65-130	Green (2.5-3)	12 Fr.
4	Medium adult	50-90 kg	110-200		12 Fr.
5	Large adult	90+ kg	200+		14 Fr.

**Note regarding sizing by weight:** While size selection on a weight basis is applicable to most patients, individual anatomical variations mean the weight guidance provided should always be considered with a clinical assessment of the pt's anatomy. Those with cylindrical necks or wide thyroid/cricoid cartilages may require a larger size than would normally be recommended on a wt basis. Patients with a broad or stocky neck or smaller thyroid/cricoid cartilage, may require a smaller size. Patients with central obesity, where the main weight distribution is around the abdomen and hips, might require an i-gel of a size commensurate with the ideal body weight for their height rather than their actual body weight.

**i-gel size    Max size ET Tube**

1	3.0mm
1.5	4.0mm
2	5.0mm
2.5	5.0mm
3	6.0mm
4	7.0mm
5	8.0mm

**NWC EMSS Skill Performance Record**  
**SURGICAL CRICOTHYROTOMY**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An unconscious adult trauma patient has extensive facial injuries. Prepare the equipment and perform a surgical cricothyrotomy.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
* BSI: Gloves, goggles, facemask		
* <b>Verbalize the indications for the procedure:</b> <input type="checkbox"/> Cannot intubate <input type="checkbox"/> Cannot insert a King or alternate airway <input type="checkbox"/> Cannot ventilate w/ BVM or other means to maintain SpO <sub>2</sub> > 90%		
* <b>Verbalize contraindications for procedure:</b> <input type="checkbox"/> Children < 8; need OLMC order for ages 8-12 <input type="checkbox"/> Pts with known bleeding disorders and/or anticoagulant therapy <input type="checkbox"/> Inability to identify landmarks; laryngeal fx or trauma causing distortion or obliteration of landmarks		
<b>Prepare the patient</b> Position supine; head in neutral position with padding under shoulders to extend neck slightly unless contraindicated		
Assess VS, ECG, SpO <sub>2</sub> as soon as time & personnel permit		
* Attempt to <b>preoxygenate</b> for <b>3 min</b> w/ 15 LO <sub>2</sub> /BVM at 10 BPM unless asthma/COPD (6-8 BPM); squeeze bag over 1 sec just to see chest rise (~400-600mL) – avoid high pressure & gastric distention prior to performing procedure		
Attempt manual maneuvers for opening upper airway; direct visualization with laryngoscope; may or may not attempt advanced airways based on patient situation		
* <b>Concurrently: Prepare equipment – Have everything ready before beginning procedure</b> <input type="checkbox"/> #11 scalpel <input type="checkbox"/> Chlorhexidine/IPA prep <input type="checkbox"/> Clamp/spreader <input type="checkbox"/> Stethoscope <input type="checkbox"/> Tracheal hook (opt) <input type="checkbox"/> ETT 5.0-7.0 <input type="checkbox"/> Gauze pads 4X4 <input type="checkbox"/> Full BSI <input type="checkbox"/> Tube holder <input type="checkbox"/> 10 mL syringe <input type="checkbox"/> Bougie <input type="checkbox"/> Water-soluble lubricant <input type="checkbox"/> Capnography <input type="checkbox"/> BVM; O <sub>2</sub> source <input type="checkbox"/> SpO <sub>2</sub> and ECG monitors <input type="checkbox"/> Suction equipment; turn on to ✓ unit <input type="checkbox"/> Sharps container		
* Choose correct size cuffed ETT (5.0 to 7.0) (one size smaller than OTI approach)		
*Check cuff integrity while in package; fill syringe w/ 10 mL of air; leave attached to pilot tubing		
Lubricate ETT with water-soluble jelly as it is withdrawn from package (verbalize)		
<b>Perform procedure</b> * <b>Identify anatomical landmarks:</b> Palpate thyroid cartilage superiorly & cricoid cartilage inferiorly w/ thumb & middle finger. Locate cricothyroid membrane with index finger. If Rt handed, work from Rt side. If Lt handed, work from pt's left side.		
Consider need for <b>FENTANYL</b> ; surgical procedures are painful, even if apparently unresponsive		
Prep skin with Chlorhexidine/IPA		
*While stabilizing trachea with non-dominant hand, make a ½ to 1" mid-line vertical incision just through skin over membrane. Partner to control bleeding with gauze pads. Suction site prn.		
* Remove scalpel; feel through incision with index finger; locate cricothyroid membrane		
* Make a horizontal stabbing incision through the membrane; width of the space. Never direct blade upward; cords just above membrane & easily damaged. Expect secretions/blood to spray out if patient breathes. Suction prn.		
* Before removing scalpel, insert forceps or spreader on either side of blade. Withdraw scalpel; open & close forceps to separate cartilages & dilate opening. Place scalpel into sharps container.		
<input type="checkbox"/> With forceps in place, insert 5 <sup>th</sup> finger through incision <input type="checkbox"/> Confirm tracheal penetration with finger <input type="checkbox"/> * <b>Insert Bougie</b> into incision next to forceps; advance caudally until you meet resistance <input type="checkbox"/> Apply tracheal hook to anterior ring of cricoid cartilage (opt) to stabilize distal segment		
* Insert ETT over Bougie; advance until cuff is fully in trachea; advance about 1".		

<b>Performance standard</b> 0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
Once catheter is advanced, remove tracheal hook and/or Bougie.		
<b>* Confirm tracheal placement:</b> <input type="checkbox"/> Ensure adequate ventilations & oxygenation: 15 L O <sub>2</sub> assist ventilations as needed at 10 BPM unless asthma/COPD (6-8 BPM)—observe chest rise; Auscultate over epigastrium, both midaxillary lines and anterior chest X 2 <input type="checkbox"/> Definitive confirmation: <b>monitor ETCO<sub>2</sub></b> number & waveform. Continue to monitor continuously.		
<b>Troubleshooting</b> <input type="checkbox"/> *If breath sounds only on right, withdraw ETT slightly and listen again. <input type="checkbox"/> *If incorrectly placed: remove ETT, attempt to reoxygenate 30 sec; assess to determine error and take corrective action.		
<b>* If tube placed correctly</b> <input type="checkbox"/> *If no gastric sounds & breath sounds present and equal bilaterally, <b>inflate cuff</b> w/ up to 10 mL air to proper pressure (minimal leak) & remove syringe <input type="checkbox"/> Secure ETT with commercial tube holder; immobilize head. May place 4X4 around tube to help absorb bleeding; do NOT cut gauze; fibers may enter trachea		
<b>* Reassess:</b> Frequently monitor SpO <sub>2</sub> , EtCO <sub>2</sub> , tube depth, VS, & lung sounds enroute to detect displacement, complications (esp. after pt movement), or condition change Monitor insertion site for complications		
<b>Verbalize at least 2 early complications of the procedure:</b> <input type="checkbox"/> Prolonged execution <input type="checkbox"/> Aspiration <input type="checkbox"/> <b>Hemorrhage</b> <input type="checkbox"/> <b>False placement</b> <input type="checkbox"/> <b>Sub-q emphysema</b> <input type="checkbox"/> Injury to neck structures <input type="checkbox"/> Tube obstruction <input type="checkbox"/> Asphyxia <input type="checkbox"/> Dysrhythmias/arrest		
<b>Document:</b> Indication for procedure, size ETT placed, how correct placement was confirmed; ongoing assessment findings; any complications, your interventions, and the patient's response.		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to attempt ventilations within 30 sec after taking BSI precautions or interrupts ventilations for >30 sec any time <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentration [at least 85%] <input type="checkbox"/> Failure to attempt to pre-oxygenate patient prior to beginning procedure <input type="checkbox"/> Contaminates equipment or site without appropriately correcting situation <input type="checkbox"/> Failure to insert airway device into trachea at a proper depth or location within 2 attempts <input type="checkbox"/> Performs any improper technique resulting in potential for uncontrolled hemorrhage or in a manner dangerous to pt <input type="checkbox"/> Failure to dispose blood-contaminated sharps immediately in proper container at point of use <input type="checkbox"/> Failure to inflate ETT cuff properly and immediately remove the syringe <input type="checkbox"/> Failure to secure the airway adequately <input type="checkbox"/> Failure to confirm that patient is being ventilated properly (rate & volume) by auscultation bilaterally over lungs, over epigastrium, and confirming with capnography <input type="checkbox"/> Failure to manage the patient as a competent paramedic <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Factually document below your rationale for checking any of the above critical criteria.**

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**NEEDLE CRICOTHYROTOMY**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An unconscious adult has massive facial trauma & extreme hypoxia. Prepare equipment and perform a needle cricothyrotomy.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* BSI: Gloves, goggles, facemask		
<b>Verbalize indications for the procedure:</b> <input type="checkbox"/> Cannot intubate <input type="checkbox"/> Cannot insert a King or alternate airway <input type="checkbox"/> Cannot ventilate w/ BVM or other means to maintain SpO <sub>2</sub> > 90%		
* <b>List two disadvantages of the procedure – least effective lower airway</b> <input type="checkbox"/> Does not allow for good elimination of CO <sub>2</sub> <input type="checkbox"/> It is invasive <input type="checkbox"/> Requires constant monitoring <input type="checkbox"/> Does not protect airway from aspiration <input type="checkbox"/> Does not allow for elimination of CO <sub>2</sub> ; so accumulates rapidly <input type="checkbox"/> Ineffective tidal volume; especially if upper airways open at all <input type="checkbox"/> Provides temporary relief (30-40 minutes) <input type="checkbox"/> No suctioning of secretions		
<b>Contraindications</b> <input type="checkbox"/> Inability to identify the anatomical landmarks necessary to perform the procedure. <input type="checkbox"/> Controversy in very small children; false placement easy, excessive bleeding real risk		
<b>Prepare the patient</b> Position supine w/ padding under shoulders to extend neck unless contraindicated		
Assess VS, ECG, SpO <sub>2</sub> as soon as time & personnel permit		
*Attempt to <b>preoxygenate</b> for 3 min w/ 15 LO <sub>2</sub> /BVM at 10-12 BPM unless asthma/COPD (6-8 BPM); squeeze bag over 1 sec just to see chest rise (~400-600 mL) – avoid high pressure & gastric distention		
Attempt manual maneuvers for opening upper airway; direct visualization with laryngoscope; may or may not attempt advanced airways based on patient situation		
* <b>Concurrently: Prepare equipment – Have everything ready before beginning procedure</b> <input type="checkbox"/> 10 g needle <input type="checkbox"/> 20 mL syringe <input type="checkbox"/> Stethoscope <input type="checkbox"/> BSI <input type="checkbox"/> 3 mL syringe barrel + 7.0 -7.5 ETT adaptor <input type="checkbox"/> Peds BVM; O <sub>2</sub> source <input type="checkbox"/> CHG/IPA skin prep <input type="checkbox"/> Tape <input type="checkbox"/> 4X4 <input type="checkbox"/> Capnography; SpO <sub>2</sub> , ECG monitors <input type="checkbox"/> Suction <input type="checkbox"/> Sharps container		
<input type="checkbox"/> Prepare equipment by inserting ETT adapter into barrel of 3 mL syringe (remove plunger) <input type="checkbox"/> Remove hub from needle; attach 20 mL syringe to needle (acts like an EDD)		
<b>Perform the procedure</b> Palpate thyroid & cricoid cartilages; locate membrane; prep skin with CHG/IPA prep		
* <b>Identify anatomical landmarks:</b> Palpate thyroid cartilage superiorly & cricoid cartilage inferiorly w/ thumb & middle finger. Locate cricothyroid membrane with index finger. If Rt handed, work from Rt side. If Lt handed, work from pt's left side.		
Prep skin with Chlorhexidine/IPA as per an IV or IO		
*Insert needle through the membrane at a 90° angle to the skin through the midline of the membrane using firm downward pressure until a "popping" sensation is felt		
* When resistance abruptly ceases, stop advancing needle; aspirate air into syringe like an EDD to confirm tracheal placement. Should aspirate easily without resistance.		
* Angle needle tip downward (towards chest) and posteriorly at a 20-45° angle		
<input type="checkbox"/> *Hold needle stationary, advance ONLY catheter over the needle to its hub (like starting an IV in the trachea; needle acts like a guidewire preventing catheter kinking) <input type="checkbox"/> *When catheter fully advanced, withdraw needle and place into a sharps container		
<input type="checkbox"/> *Attach 3 mL syringe barrel (with ETT adaptor attached) to hub of catheter.		

<b>Performance standard</b> 0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
Apply capnography sensor to ETT adapter. Ventilate slowly /peds BVM at 10/BPM. Allow 4 sec exhalation for each 1 sec inhalation. Confirm exhaled CO <sub>2</sub> . <ul style="list-style-type: none"> <li>▪ If upper airways are open: For each 1 second of inspiration allow 4 seconds for exhalation to prevent barotrauma.</li> <li>▪ If the upper airways are entirely obstructed: Allow 8 seconds of exhalation for each 1 second of inhalation.</li> <li>▪ May need to compress chest to assist exhalation</li> </ul>		
<input type="checkbox"/> *Auscultate epigastrium, both midaxillary lines & anterior chest X 2 <input type="checkbox"/> *Assess quantitative waveform capnography to confirm exhaled CO <sub>2</sub> . <input type="checkbox"/> If incorrectly placed: assess to determine error and take corrective action <input type="checkbox"/> *If correctly placed, control bleeding prn & secure catheter in place using tape		
<p><b>* Reassess:</b> Frequently monitor SpO<sub>2</sub>, EtCO<sub>2</sub>, VS, &amp; lung sounds enroute to detect displacement, complications or condition change; monitor insertion site for complications.</p> <p><b>CO<sub>2</sub> accumulation can be dangerous in head injured patient.</b>  Patients can be adequately oxygenated for 30 to 40 minutes using this technique. Because of inadequate exhalation, CO<sub>2</sub> accumulates and limits the long-term use of this approach, especially in head-injured patients (ATLS).  High flow O<sub>2</sub> (&gt;15 L/min) may actually dislodge a foreign body in the airway, however, significant barotrauma may occur including pulmonary rupture with tension pneumothorax if exhalation is poor. Low flow rates (5 to 7 L/min) should be used when total glottic obstruction is present (ATLS).</p>		
<p><b>Complications</b></p> <input type="checkbox"/> High pressure during ventilation and air entrapment may produce pneumothorax <input type="checkbox"/> Hemorrhage at the insertion site. <input type="checkbox"/> Thyroid gland & esophagus can be perforated if needle is inserted inappropriately and/or advanced too far <input type="checkbox"/> Subcutaneous emphysema		
<p><b>Critical Criteria - Check if occurred during an attempt</b></p> <input type="checkbox"/> Failure to attempt ventilations within 30 seconds after taking BSI precautions or interrupts ventilations for >30 seconds at any time <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide high oxygen concentration [at least 85%] <input type="checkbox"/> Failure to attempt to pre-oxygenate patient prior to beginning procedure <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Failure to insert the airway device into the trachea at a proper depth or location within 2 attempts <input type="checkbox"/> Performs any improper technique resulting in potential for uncontrolled hemorrhage or in a manner dangerous to the patient <input type="checkbox"/> Failure to dispose/verbalize disposal of blood-contaminated sharps immediately in proper container at the point of use <input type="checkbox"/> Failure to secure the airway adequately <input type="checkbox"/> Failure to confirm that patient is being ventilated properly (proper insertion depth, rate and volume) by auscultation bilaterally over lungs and over epigastrium <input type="checkbox"/> Failure to manage the patient as a competent paramedic <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Factually document below your rationale for checking any of the above critical criteria.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**ADMINISTERING OXYGEN from a PORTABLE DELIVERY SYSTEM**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is hypoxic. You are asked to assemble the equipment and prepare an oxygen tank for use.

**Equipment needed:** Portable oxygen tank, pressure regulator, and wrench (if needed)

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/> Maintain oxygen tank stable away from heat		
<input type="checkbox"/> *Place cylinder in an upright position if using a ball gauge		
Position self to face gauge when the regulator is attached		
Remove the protective cover from the cylinder valve		
Attach cylinder wrench to the valve		
* With spout pointing away from you, "crack" the tank by turning the wrench counterclockwise to open the valve slightly until the escape of O <sub>2</sub> is heard		
* When oxygen escape is heard, turn the wrench clockwise to rapidly shut off the O <sub>2</sub> . This cleans valve of any debris.		
* Inspect regulator to assure that it is the right type and the washer is present and intact (intact gasket/any damage)		
* Apply pressure regulator to O <sub>2</sub> cylinder; secure tightly		
* Open valve on top of cylinder until the pressure gauge stops moving to check O <sub>2</sub> pressure in tank. Should be above 500 psi.		
* Open regulator valve to the desired flow rate in liters/minute		
* To D/C O <sub>2</sub> : turn flow regulator until the flowmeter needle falls to zero		
Shut off main cylinder valve		
Bleed valves by opening the regulator valve and leaving it open until needle or ball indicator returns to zero flow		
Shut off the control valve		

Comments: \_\_\_\_\_

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**NASAL CANNULA**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is in mild respiratory distress. You are asked to assemble the equipment and administer oxygen using a nasal cannula.

**Equipment needed:** Airway manikin; nasal cannula, portable oxygen tank; BSI

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
Verbalize two examples of patients who require a NC <input type="checkbox"/> Nose breathing patient with mild hypoxia who needs minimum FiO <sub>2</sub> <input type="checkbox"/> Patient claustrophobic when using an O <sub>2</sub> face mask <input type="checkbox"/> To provide extra O <sub>2</sub> during albuterol/ipratropium neb Rx by HHN <input type="checkbox"/> To provide continuous oxygenation during intubation attempts <input type="checkbox"/> Facial anomaly prevents adequate seal with an O <sub>2</sub> mask <input type="checkbox"/> Patients who are vomiting		
* Apply BSI (gloves)		
* <b>Prepare equipment:</b> Open adult NC; unwind tubing to prevent kinks; connect to oxygen source.		
* Adjust oxygen flow rate based on patient need and SpO <sub>2</sub> (1-6 L)		
<b>Prepare patient:</b> <input type="checkbox"/> Explain procedure to patient; instruct them to breathe through the nose <input type="checkbox"/> Obtain SpO <sub>2</sub> on room air to confirm need for cannula vs. NRM		
<b>Procedure:</b> * Insert nasal prongs into patient's nostrils, oriented upward and posteriorly toward nasopharynx		
* Adjust catheter so each side loops over the ears comfortably. Slide plastic ring up under the chin to secure tubing.		
* Assess patient for discomfort and response to O <sub>2</sub> therapy		
Verbalize 1 precaution if cannula is used > 2 hours (drying of mucosa)		

Comments: \_\_\_\_\_  
 \_\_\_\_\_

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record  
NON-REBREATHER MASK**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult with spontaneous ventilations is c/o dyspnea with a room air pulse ox reading of 90%. You are asked to assemble the equipment and administer oxygen via a non-rebreather mask.

**Equipment needed:** Airway manikin; adult & peds non-rebreather masks, portable oxygen tank; BSI

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/> Determine the need for supplemental oxygen. Verbalize two examples of patients who require a NRM <input type="checkbox"/> Spontaneously breathing pt. with moderate to severe hypoxia (SpO <sub>2</sub> < 92%); good ventilatory effort <input type="checkbox"/> Prior to DAI in spontaneously breathing patient with good ventilatory effort <input type="checkbox"/> Apneic oxygenation during early phases of cardiac arrest management <input type="checkbox"/> Carbon monoxide or other toxic inhalation injuries <input type="checkbox"/> May be used to deliver nebulized medication by removing reservoir bag and inserting nebulizer acorn		
<b>*Prepare patient</b> <input type="checkbox"/> Position patient for maximum ventilatory capacity <input type="checkbox"/> Obtain room air SpO <sub>2</sub>		
<b>Assemble and prepare equipment</b> * Apply BSI: gloves		
* Select proper size mask (Prepare adult size) and O <sub>2</sub> source Open mask and fully uncoil the bag and tubing.		
* Connect the female adaptor of the mask to the flow meter of the O <sub>2</sub> source		
* Open tank or turn on O <sub>2</sub> and set liter flow at 12 -15 L/min		
* Check that one-way exhaust valve is in place on at least one side of mask and is undamaged		
* Fully inflate non-rebreather bag by pressing down on one-way inlet diaphragm inside of mask between mask and reservoir.		
<b>Perform procedure</b> * Apply mask apex over bridge of nose and base just below the lower lip to minimize air leaks.		
* Adjust elastic strap around head above ears.		
If metal strip across the mask nose, squeeze slightly to form the mask		
* Adjust O <sub>2</sub> at 12-15 L/minute so bag remains partially inflated during peak inspiration (never < 2/3 <sup>rd</sup> full. and completely refills prior to next inspiration)		
Verbalize steps if reservoir bag collapses on inhalation. (Increase L flow)		
Verbalize complication if O <sub>2</sub> source is removed (pt receives inadequate O <sub>2</sub> )		

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**NWC EMSS Skill Performance Record**  
**BAG VALVE MASK**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult appears unconscious with inadequate ventilations. You are asked to assemble the equipment and assist ventilations with a bag-valve-mask.

**Equipment needed:** Airway manikin; adult & peds BVMs, OPA, NPA asst. sizes, portable O<sub>2</sub> tank; BSI

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* Apply BSI		
<b>*Verbalize an indication for using a BVM</b>		
<input type="checkbox"/> Patient with inadequate ventilations/oxygenation		
Identify the correct size mask & bag to ventilate patient: adult, peds, neonate		
* Connect bag to oxygen source		
Fully extend O <sub>2</sub> reservoir tube per manufacturer's instructions		
* Set oxygen flow rate to 15 L		
* Open airway w/ appropriate manual maneuvers		
* Checks for gag reflex by performing glabellar tap or lash reflex		
<input type="checkbox"/> No gag: Insert OPA <input type="checkbox"/> Gag present: Insert NPA unless contraindicated		
* Apply apex of mask over patient's nose & base over mouth, w/ mask positioned in cleft of chin. Do not occlude nostrils.		
<input type="checkbox"/> Place thumb over apex of mask		
<input type="checkbox"/> Place index finger between the valve and lower mask cushion (forming a C with the thumb)		
<input type="checkbox"/> Use 3 <sup>rd</sup> , 4 <sup>th</sup> , and 5 <sup>th</sup> fingers to lift lower jaw between the chin and ear up into the mask ("E"). This may vary slightly based on the size of the rescuer's hands.		
<b>* Maintain adequate mask seal and appropriate head position w/ hand</b>		
Can verbalize 2 causes of inadequate mask seal: Beards: apply KY jelly; large tongue & jaw; lack of teeth; protruding teeth; facial burns; trauma; facial dressings		
<b>2 person technique:</b> Have 1 <sup>st</sup> rescuer hold mask on face with both hands. Have 2 <sup>nd</sup> person compress bag.		
<input type="checkbox"/> With other hand, squeeze bag w/ just enough volume to see chest rise (400-600 mL)		
<input type="checkbox"/> Ventilate over 1 sec at 10 BPM (every 6 seconds)		
<input type="checkbox"/> Asthma/COPD: ventilate at 6-8 BPM		
<input type="checkbox"/> Verbalize that adequate breath sounds should be heard over all lung fields		
* Between breaths, release pressure on the bag; let pt passively exhale and bag refill from O <sub>2</sub> source & reservoir		
Feel for lung compliance w/ each squeeze of the bag		
<input type="checkbox"/> <b>Can't ventilate:</b> Reposition head & jaw, suspect & Rx F/B obstruction; consider other causes (tension pneumo)		
<input type="checkbox"/> <b>Ventilates but no chest rise:</b> ✓ mask seal, open pneumo (?), ✓ airway misplacement (esophagus)		

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**Rating: (Select 1)**

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**NWC EMSS Skill Performance Record**  
**CONTINUOUS-POSITIVE AIRWAY PRESSURE (FlowSafell EZ)**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult presents with severe dyspnea & ↑ work of breathing. Assess for indications & contraindications; apply C-PAP if indicated.

**Equipment needed:** Airway manikin or simulated patient; C-PAP mask, O<sub>2</sub> tank; BSI, drug bag

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>															
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary																	
<b>Assess for indications:</b> Must be 18 yrs of age; alert w/ intact airway & ventilatory drive (Patients you may expect to intubate if untreated) <input type="checkbox"/> *Cardiogenic pulmonary edema w/ hemodynamic stability <input type="checkbox"/> COPD/asthma w/ severe distress <input type="checkbox"/> Submersion incident <input type="checkbox"/> Flail chest without evidence of pneumothorax <input type="checkbox"/> Elderly patients with if O <sub>2</sub> via NC or NRM is ineffective <input type="checkbox"/> Extremely obese patient with hypoxia/hypercarbia <input type="checkbox"/> Patients with DNR/POLST orders w/ severe resp distress declining intubation <input type="checkbox"/> Post-extubation rescue for acute respiratory failure																	
<b>Assess for contraindications:</b> <input type="checkbox"/> Younger than 18 years of age <input type="checkbox"/> <b>AMS</b> ; aspiration risk; inability to clear secretions; questionable ability to protect airway <input type="checkbox"/> <b>Need for immediate airway control</b> (intubation), need for assist/control ventilation with BVM, facial burns. Intubation shall be considered if there is evidence of imminent cardiopulmonary arrest, decreased level of consciousness, severe hypotension, near-apnea, and/or copious frothy sputum. <input type="checkbox"/> Unstable respiratory drive; <b>ventilatory failure</b> <input type="checkbox"/> Hypotension * <b>SBP ≤ 90 &amp; DBP &lt; 60</b> or ECG instability <input type="checkbox"/> Gastric distention; impaired swallowing, persistent vomiting, active upper GI bleeding; possible esophageal rupture <input type="checkbox"/> Compromise of thoracic organs (penetrating chest trauma, pneumothorax) <input type="checkbox"/> Uncooperative pt or those unable to tolerate mask due to extreme anxiety, claustrophobia, or pain <input type="checkbox"/> Recent upper airway or esophageal surgery <input type="checkbox"/> Possible increased ICP: Evidenced by decreased LOC; HTN; abnormal pupils <input type="checkbox"/> Facial abnormalities/trauma that would complicate mask seal (facial burns) and result in a significant air leak, epistaxis																	
Ask pt for subjective impression of dyspnea/work of breathing. Rate on a scale of 0-10.																	
*Assess SpO <sub>2</sub> on room air if possible and capnography reading & waveform.																	
If possible ACS: Obtain rapid 12L ECG with 1 <sup>st</sup> set of VS																	
<b>Prepare patient</b> *Position stretcher at 45° or higher unless contraindicated																	
*Inform pt what you are doing; explain purpose/benefits of CPAP and what it will feel like																	
Begin treatment of condition per SOP (Integrate vascular access and appropriate medications (unless contraindicated) per SOP while prepping mask.																	
Prepare intubation equipment <b>if severe distress</b>																	
<b>Prepare C-PAP equipment</b> Open FlowSafell EZ disposable CPAP system with integrated nebulizer; Select appropriate mask size using sizing chart – large adult, small adult; connect oxygen tubing to flowmeter or regulator																	
<b>CAUTION:</b> CPAP pressure will decrease when nebulizer is activated and increase when neb is deactivated. Verify CPAP pressure with manometer and adjust flowmeter as needed. Manometer will not register until placed on pt.																	
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Flow (LPM)</th> <th style="text-align: left;">CPAP if neb OFF</th> <th style="text-align: left;">CPAP if neb ON</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>2.0 - 3.0</td> <td>1.0 - 2.0</td> </tr> <tr> <td>10</td> <td>6.0 - 7.0</td> <td>2.0 - 3.0</td> </tr> <tr> <td>12</td> <td>8.0 - 9.0</td> <td>3.0 - 4.0</td> </tr> <tr> <td>15</td> <td>11.0 - 12.00</td> <td>4.0 - 5.0</td> </tr> </tbody> </table>	Flow (LPM)	CPAP if neb OFF	CPAP if neb ON	6	2.0 - 3.0	1.0 - 2.0	10	6.0 - 7.0	2.0 - 3.0	12	8.0 - 9.0	3.0 - 4.0	15	11.0 - 12.00	4.0 - 5.0		
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<b>Mask application:</b> Hold mask firmly on pt's face w/ O <sub>2</sub> running or allow them to hold mask to face without straps. Allow pt time to adjust to mask. Reassure pt; stay in constant communication with them.																	
Adjust 4 head straps using Velcro tabs; squeeze forehead adjustment tabs to seat mask on bridge of nose																	
<b>Reassess after three minutes</b> <input type="checkbox"/> Patient tolerance, comfort, mental status <input type="checkbox"/> Respiratory rate/depth; feeling of distress, use of accessory muscles, ability to talk																	

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/> Lung sounds; SpO <sub>2</sub> ; capnography <input type="checkbox"/> BP (✓ for hypotension); P; ECG rhythm <input type="checkbox"/> Gastric distention or vomiting		
* If SBP drops to < 90 (MAP < 65): Titrate PEEP down to 5 cm; remove C-PAP if hypotension persists		
*If SpO <sub>2</sub> remains < 92% and/or WOB remains labored & BP OK: adjust PEEP up to 10 cm in increments		
Attempt mask application for 10 min before conceding C-PAP failure If SBP ≥ 90 (MAP ≥ 65) and pt very anxious: Consider need for midazolam in <b>2 mg increments</b> every 30-60 sec <b>IVP</b> (0.2 mg/kg IN) <b>up to 10 mg IVP/IN/IM</b> . If pt needs frequent coaching, consider need for 3 <sup>rd</sup> rescuer enroute.		
* <b>CPAP with NEB:</b> Only 1 source of O <sub>2</sub> is needed – neb built into unit <input type="checkbox"/> Place medication in bowl <input type="checkbox"/> Turn nebulizer switch on to green (OFF is RED) <input type="checkbox"/> Adjust O <sub>2</sub> flow to maintain desired pressure or adjust flow per SOPs to maintain needed PEEP <input type="checkbox"/> <b>Turning switch to green will reduce pressure requiring an increase in gas flow to maintain original pressure</b>		
<b>CPAP Complications:</b> <input type="checkbox"/> *High pulmonary pressures can cause a decrease in preload to Rt heart (blood volume through the lungs) resulting in a decrease in cardiac output (↓BP) and possible V/Q mismatch. <input type="checkbox"/> *High airway pressures can over distend alveoli resulting in barotrauma resulting in pneumothorax <input type="checkbox"/> Over distention of lungs can reduce their ability to move easily (decreases compliance) <input type="checkbox"/> Positive pressure may increase secretions or dry upper airways; difficulty clearing respiratory secretions <input type="checkbox"/> Gastric distension/vomiting; rare with PEEP levels < 15 cm H <sub>2</sub> O. Use caution in aerophagia sensitive patients (following gastric stapling or upper GI surgery) <input type="checkbox"/> Aspiration with very high gas flow and gastric distention <input type="checkbox"/> Increased ICP: if a possible cause of ↑ ICP is present; may need to be watched carefully <input type="checkbox"/> Eye irritation <input type="checkbox"/> Sinus congestion: pain <input type="checkbox"/> Requires patient cooperation to tolerate tight fitting mask <input type="checkbox"/> Facial skin necrosis at the site of mask contact if long-term use		
<b>On-going care/monitoring</b> <input type="checkbox"/> Reassess RR/depth & lung sounds, SpO <sub>2</sub> , capnography q. 3-5 min after C-PAP applied <input type="checkbox"/> *Reassess VS q. 3-5 min <input type="checkbox"/> *Continuously monitor patient for signs indicating need to D/C C-PAP &/or intubate. <input type="checkbox"/> If DAI intubation needed, explain why and note time of intubation.		
<b>Criteria to DC CPAP in field</b> <input type="checkbox"/> Inability to tolerate the mask due to discomfort, pain, or claustrophobia <input type="checkbox"/> Need for ETI to manage secretions, protect the airway, or ventilate patient <input type="checkbox"/> Hemodynamic instability: SBP < 90 (MAP <65) at lowest levels of PEEP <input type="checkbox"/> ECG instability with evidence of clinically significant ventricular dysrhythmias		
<b>Document:</b> indications for CPAP, O <sub>2</sub> sat, capnography number & waveform, VS, lung sounds before & after CPAP; PEEP levels, FiO <sub>2</sub> , pt response/adverse reactions, tolerance		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize body substance isolation precautions <input type="checkbox"/> Failure to voice and ultimately provide appropriate oxygen therapy <input type="checkbox"/> Failure to assess/provide adequate ventilation <input type="checkbox"/> Failure to find or appropriately manage problems assoc w/ airway, breathing, or hypoperfusion <input type="checkbox"/> Performs a dangerous or inappropriate intervention <input type="checkbox"/> Performs any improper technique resulting in potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

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**NWC EMSS Skill Performance Record**  
**PULSE OXIMETRY**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult presents with shortness of breath. Prepare the equipment and apply a pulse oximeter monitor.  
**Equipment needed:** ECG monitor or free standing SpO<sub>2</sub> monitor; peripheral and central sensors

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Verbalize indications for the procedure:</b> *To non-invasively monitor O <sub>2</sub> saturation in pts who are at risk for hypoxemia		
<b>Prepare the patient</b> Explain procedure to patient and what it is meant to measure.		
<b>Prepare equipment</b> *Select appropriate sensor for pt size, age, & condition (peripheral vs. central)		
<b>Perform procedure</b> *Choose appropriate sensor site: clean, well perfused, comfortable, age-appropriate <input type="checkbox"/> Newborn - right upper extremity (wrist or medial aspect of palm) <input type="checkbox"/> Infants - toe or lateral aspect mid foot <input type="checkbox"/> Pediatrics - toe or finger <input type="checkbox"/> Adults - fingers, toes, ear lobes, or bridge of nose		
*Remove metallic/black nail polish or turn sensor to lateral to lateral aspect of finger. Clean site if contaminated w/ blood/dirt.		
*Apply sensor so optical components are aligned. Attach sensor cable to monitor.		
*Turn unit on		
*Observe for pulse bar to begin sensing and fluctuating up and down or waveform/ number to appear.		
*Correlate palpated to sensed pulse. HR on ECG monitor should correlate to HR on the oximeter & palpable peripheral pulse. If there is a discrepancy or pulse deficit check the monitor and the patient.		
*Interpret reading in light of pt's age; complaint & PMH. State expected readings.		
Explain why an SpO <sub>2</sub> < 90% is dangerous to pt: (RBCs have impaired ability to carry oxygen)		
If hypoxic: Apply appropriate O <sub>2</sub> delivery device and FiO <sub>2</sub>		
*Trend pulse ox reading after oxygen delivery		
*Give one example when a pulse ox reading may be unreliable <input type="checkbox"/> Cold/hypoperfused extremities <input type="checkbox"/> Motion <input type="checkbox"/> Edema <input type="checkbox"/> Light <input type="checkbox"/> Nail polish <input type="checkbox"/> Venous pulsations <input type="checkbox"/> Dyshemoglobins like CO, anemia <input type="checkbox"/> ↓ BP		
Set/check the appropriate alarms		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

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**NWC EMSS Skill Performance Record**  
**CAPNOGRAPHY**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

An elderly patient presents with AMS (GCS 13); a fever of 102° F, BP of 88/60; RR of 24 and crackles in the right middle and lower lobes. You need to determine if they are in septic shock. Prepare equipment and monitor their ETCO<sub>2</sub>.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>* State uses for digital waveform capnography</b>		
<input type="checkbox"/> Confirm position of ETT		
<input type="checkbox"/> Differentiate between asthma/COPD and heart failure		
<input type="checkbox"/> Determine severity of asthma attack		
<input type="checkbox"/> Recognition of respiratory depression / hypoventilation		
<input type="checkbox"/> Recognition of hyperventilation; monitor hyperventilation for TBI pts		
<input type="checkbox"/> Recognition of need for additional post-ETI sedation		
<input type="checkbox"/> Predict chance for successful CPR resuscitation		
<input type="checkbox"/> Recognition of ROSC		
<input type="checkbox"/> Determine adequacy of perfusion		
<input type="checkbox"/> Gather equipment		
<input type="checkbox"/> Mainstream: capnography mask, sensor, and cable		
<input type="checkbox"/> Micro/side-stream: Nasal cannula (available with or without oxygen delivery capability)		
*Attach capnography sensor/tubing to monitoring device (usually ECG monitor)		
*Place nasal cannula or capnography mask on patient		
*Place adapter on face-mask, ETT, or King LT		
*State normal reading: 35-45 mmHg, rectangular shape		
<input type="checkbox"/> State expected reading if patient in shock w/ poor perfusion (< 31)		
<input type="checkbox"/> State expected reading if patient is hyperventilating (<35)		
<input type="checkbox"/> State expected reading if patient has RR of 4/minute (> 45)		
<input type="checkbox"/> State expected change in waveform if pt has bronchoconstriction (sharkfin)		
<input type="checkbox"/> State expected reading with ROSC after cardiac arrest (high 65+)		
<input type="checkbox"/> State expected reading if pt has a large pulmonary embolism: Short (15), square waveform		
*Provide treatment based on history & capnography findings		
*Print copy of tracing & write patient's name on tracing		
*Document capnography value & waveform shape on PCR (comments section)		
Attach capnography tracing to original copy of PCR (left at hospital)		
<b>Critical Criteria: Check if occurred during an attempt</b>		
<input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions		
<input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm		
<input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

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**Rating: (Select 1)**

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**NWC EMSS Skill Performance Record**  
**APPLICATION OF ECG ELECTRODES**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is complaining of chest pain. You are asked to assemble the equipment, apply electrodes to the patient's chest and monitor the ECG.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Prepare patient</b> Explain procedure to patient. Ask if they have any questions.		
Remove clothing from the patient's chest. Maintain pt. modesty whenever possible.		
*Prep skin where electrodes are to be placed, by wiping with an alcohol pad and rubbing briskly with a dry towel or gauze (to remove lotion, oil, dirt, sweat, blood, or old skin cells & minimize artifact). In men, may be necessary to clip hair. Option: "part & spread" hair to allow for skin prep and electrode placement.		
<b>Prepare equipment</b> * Attach lead wires to the electrodes before applying them to the patient		
* Remove the protective liner on the electrodes slowly, exposing the adhesive outer circle and the gel core. <b>Make sure gel is moist</b> and in the middle of the electrode.		
<b>Apply electrodes</b> * Apply limb lead electrodes without gaps or wrinkles to appropriate locations (limbs, NOT chest) for RA, LA, RL and LL. Avoid placing electrodes over sites in fatty areas or over major muscles, large breasts, or bony prominences.		
* Press each electrode to the patient's skin without gaps or folds for good contact. Apply pressure firmly but gently all around the adhesive rings.		
* Turn on the ECG monitor and assess quality of the tracing. Select appropriate monitoring lead and adjust gain if necessary.		
Appropriately trouble shoot abnormalities in ECG signal <input type="checkbox"/> Loose lead <input type="checkbox"/> 60 cycle interference <input type="checkbox"/> Patient movement <input type="checkbox"/> Low amplitude tracing <input type="checkbox"/> Artifact <input type="checkbox"/> Dry electrodes		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to differentiate pt's need for immediate transport vs assessment and Rx at the scene <input type="checkbox"/> Failure to determine the patient's primary problem <input type="checkbox"/> Performs any improper technique resulting in potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Factually document below your rationale for checking any of the above critical criteria.**

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**Rating: (Select 1)**

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- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**12- LEAD ECG**

Name:	1st attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2nd attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is complaining of chest pain. You are asked to assemble the equipment, apply electrodes to the patient and obtain a 12 L ECG.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Identify indications for 12-L ECG</b> <input type="checkbox"/> Chest pain or discomfort nose to navel; front and back <input type="checkbox"/> SOB (especially exertional dyspnea) <input type="checkbox"/> Syncope or near syncope <input type="checkbox"/> Palpitations <input type="checkbox"/> Unexplained N / V <input type="checkbox"/> Feeling of impending doom <input type="checkbox"/> Diaphoresis unexplained by ambient temperature <input type="checkbox"/> General weakness <input type="checkbox"/> Suspected DKA <input type="checkbox"/> Risk factors: MI/HF, age, cholesterol high, diabetes, HTN, smoking <input type="checkbox"/> ECG rhythm: ectopy, identify pacer, QRS width determination (VT vs. SVT)		
<b>*Timing of 12 L - Verbalize:</b> "Preferably, 12-L should be acquired where pt is found, with 1 <sup>st</sup> set of VS & prior to NTG (NTG can change tracing and is contraindicated in pts w/ inferior/RVMI)"		
<b>Explain procedure to pt</b>  To minimize artifact, electrodes for 12-L ECGs should be fresh and stored in airtight package to preserve moisture of electrode gel		
<b>Prepare the patient/electrode placement</b>  <input type="checkbox"/> *Prep skin where electrodes are to be placed, by wiping with alcohol and rubbing briskly with a dry towel or gauze (to minimize artifact) <input type="checkbox"/> *Place limb leads on limbs (white - RA, black - LA, green - RL, red - LL). For accurate 12-L interpretation, limb leads should be placed on limbs (not torso).  <input type="checkbox"/> Turn on ECG monitor and observe ECG rhythm <input type="checkbox"/> * Rhythm should usually be determined from Lead II strip (not 12-L interpretation)		
* Position pt lying supine, w/ pillow under head for comfort * If pt unable to lie supine (e.g., acute dyspnea), document directly on 12-L tracing "pt sitting up" as position can affect interpretation		
* Preserve patient modesty as much as possible by removing unnecessary people from area and covering patient with towel/blanket.		
* Identify landmarks for chest leads & prep skin (as described above) * In men, may be necessary to shave chest hair for electrode placement; as an alternative can "part & spread" chest hair to allow for skin prep and electrode placement		
<input type="checkbox"/> Apply V1 in 4 <sup>th</sup> ICS just to right of sternum <input type="checkbox"/> Apply V2 in 4 <sup>th</sup> ICS just to left of sternum		
* In women, ask pt to hold left breast up with left hand while applying chest electrodes. (Preserves pt modesty while allowing EMT/PM to use both hands to remove electrode backing and apply electrode. If pt unable to do this, use back of hand to lift breast tissue out of way.		
* Apply V4 electrode 5 <sup>th</sup> ICS, midclavicular line (avoid common error of too low placement) In women, this electrode should be placed on chest wall, immediately under breast tissue		
* Apply V3 electrode half-way between V2 and V4 electrodes		
* Apply V5 electrode in 5 <sup>th</sup> ICS, horizontal with V4 electrode, in anterior axillary line		
* Apply V6 electrode in 5 <sup>th</sup> ICS, horizontal with V4 & V5 electrodes in mid-axillary line (avoid common error of too anterior placement of this electrode)		
* Attach 12-L cable to main electrode cable (attaching cable prior to this may cause device to beep signaling "leads off")		

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
* Set age & gender of patient on 12-L device (age/gender will affect interpretation)		
* Make sure pt's arms and legs are fully supported & relaxed		
* Ask pt to hold still while device acquires ECG, takes ~10-15 sec (generally NOT recommended to instruct pt to hold breath as this often causes pt to take a deep breath tensing chest muscles causing artifact)		
* Push "acquire" button on device		
* Once device states "acquisition complete," "analyzing data" can instruct pt "OK to move"		
* After printing of 12-L, assure at least one clear, without artifact, P-QRS-T in each lead.		
* If artifact present, remove & discard affected electrode, re-prep skin, apply new electrode, and acquire new tracing		
* If 12-L interpretation states "Acute MI Suspected," notify hospital that you have a "Cardiac Alert - STEMI patient" ASAP (while on-scene, prior to transport) so preparation of cardiac cath lab can be made - prior to pt's arrival		
* Interpret 12-L by looking for: ST elevation with or without pathologic Q waves, left bundle branch block (LBBB), ST depression, hyperacute or inverted T waves.		
Identifies ECG criteria for diagnosis of STEMI (MILIS) – any of these in the presence of chest pain or anginal equivalent		
<input type="checkbox"/> New of presumably new Q waves (at least 30 ms wide & 0.20 mV deep) in at least two leads from any of the following (a) leads II, III, aVF; (b) leads V1 through V6; or (c) leads I and aVL;		
<input type="checkbox"/> New or presumably new ST-T segment elevation or depression (~0.10 mV MEASURED 0.02 s after the J point in two contiguous leads of the previously mentioned lead combination); or		
<input type="checkbox"/> A complete left BBB in the appropriate clinical setting (Hurst's, The Heart 11 <sup>th</sup> Ed, p. 1283)		
* Verbalize: "12-L ECG can NOT be used to rule-out MI, as 1/3 of pts with acute MI will have "normal ECG" initially as it takes time for changes to occur and not all heart locations are seen on 12-L ECG"		
* Verbalize: "Age-undetermined infarction generally means an old, not acute, MI."		
*When contacting hospital, read 12-L interpretative statement verbatim; do not summarize.		
* Write name of patient on 12-L tracing		
* Upon arrival at hospital, especially if abnormal 12-L - hand tracing directly to MD (preferably), or RN while giving report; do not leave 12-L lying on a counter		
* Document 12-L interpretative statement in comments section of PCR; this can be facilitated by either printing 2 copies of the 12-L or making a photocopy immediately upon arrival in ED. Do not keep sole copy of prehospital 12-L with you while completing PCR.		
* Document time 12-L acquired in section of PCR where ECG rhythm (e.g., NSR) is documented. Chose most applicable of 3 categories: "Normal ECG," "Abnormal ECG," or "Acute MI suspected"		

**Factually document below your rationale for checking any of the above critical criteria.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

\_\_\_\_\_  
Preceptor (PRINT NAME – signature)

**NWC EMSS Skill Performance Record**  
**TRANSCUTANEOUS PACING**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

An adult presents with chest pain following a syncopal episode. The patient weak and is c/o lightheadedness and feels like they may faint again.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Prepare/assess patient</b> * Confirm the need for pacing: bradycardia with hypoperfusion unresponsive to atropine and/or norepinephrine or drugs are contraindicated		
Initiate Initial Medical Care		
* Explain procedure to patient if conscious and oriented. Warn that procedure may be uncomfortable, muscles will twitch, and medication is available.		
* Remove all clothing from patient's chest; preserve modesty whenever possible		
* Skin prep: Remove all nitro patches, briskly wipe skin with a dry towel or gauze		
<b>Prepare equipment</b> <input type="checkbox"/> Do NOT use electrodes if they have been removed from the foil package for more than 24 hours. ✓ electrodes for expiration date. <input type="checkbox"/> Connect pace/defib cable to pace/defib electrodes by aligning arrows on connectors and pressing firmly. <input type="checkbox"/> Slowly peel back protective liner on electrodes beginning with cable connection end. <input type="checkbox"/> Inspect electrodes to make sure gel is moist, undamaged, and in the middle of the electrode. Do not use pads that are dried out or damaged as this may cause electrical arcing and patient skin burns. <input type="checkbox"/> Avoid spilling any fluids on the adapters, cables, connectors, or electrodes. <input type="checkbox"/> Do not clean the electrodes or their permanently attached electrode cable with alcohol Note: One electrode set can be used for up to 50 shocks at any energy setting. They can withstand a continuous pacing current for 12 hrs and can remain on pt for 24 hours.		
* <b>Apply pacing pads</b> either anterior-posterior (preferred) or anterior-lateral <input type="checkbox"/> <b>Anterior-posterior:</b> Place negative electrode on left anterior chest halfway between xiphoid process and left nipple line (See drawing next page). <input type="checkbox"/> Place positive electrode on left posterior chest below scapula, lateral to spine. <input type="checkbox"/> <b>Anterior-lateral:</b> Place the anterior electrode (black electrode) without wrinkles or gaps on the patient's right upper torso, lateral to the sternum and below the clavicle. <input type="checkbox"/> Place the lateral (♥) red electrode without wrinkles or gaps under and lateral to the patient's left nipple in the midaxillary line, with the center of the electrode in the midaxillary line. <input type="checkbox"/> Avoid placing pads over bony prominences (sternum/scapula) or breasts. <input type="checkbox"/> Smooth electrode center and edges onto patient's chest to eliminate air pockets between gel surface and skin. Firmly press all adhesive edges to skin.		
* Select leads I, II, or III. Cannot pace if lead select switch is on paddles.		
* Connect limb lead ECG electrodes to the patient cable and apply to patient. Allow at least 2-3 cm between monitoring and pacing electrodes to prevent current arcing.		
Prepare fentanyl and midazolam for use if needed		
<b>Perform procedure: Varies by monitor manufacturer</b> * Turn the monitor on		
* Confirm the native rhythm; adjust gain so R waves can be sensed. Should see a "•" on each R wave. If no dot markers appear, adjust ECG size or select another lead.		
* Turn pacing button on. Set rate at 60 BPM. May adjust rate to 70 BPM based on clinical response.(Some monitors preset at rate of 70)		
* Confirm presence of pacing spikes at set rate		
* Push start/stop button		

<b>Performance standard</b> 0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
<input type="checkbox"/> Device turns on at 0 mA. * If pt is awake w/ pulse: Slowly increase in 5 mA increments until evidence of <b>electrical capture</b> (pacer spike followed by a wide QRS). Troubleshoot failure to capture. <input type="checkbox"/> Assess femoral pulse for <b>mechanical capture</b> . Halt at lowest mA at which 1:1 mechanical capture takes place. <input type="checkbox"/> If pt unconscious: Rapidly turn up in 20 mA increments until evidence of mechanical capture is present.		
* Continue upward adjustment of mA until mechanical capture or 200 mA		
* Assess for response to the procedure (VS in right arm, femoral pulse; mental status, SpO <sub>2</sub> , pain).		
If no mechanical capture at 200 mA, push stop button and reposition electrodes, check for good skin contact. Push start and slowly increases mA again.		
<b>Evaluate patient - If successful:</b> Assess need for sedation & pain mgt: If SBP ≥ 90 (MAP ≥ 65): <input type="checkbox"/> <b>Sedation:</b> MIDAZOLAM 2 mg increments slow IVP q. 2 min (0.2 mg/kg IN) up to 10 mg IVP/IN titrated to pt response. If IV unable and IN contraindicated: IM dose 5-10 mg (0.1-0.2 mg/kg) max 10 mg single dose. All routes: may repeat to total of 20 mg prn if SBP ≥ 90 (MAP ≥ 65) unless contraindicated. ↓ total dose to 0.1 mg/kg if elderly, debilitated, chronic diseases (HF/COPD); and/or on opiates or CNS depressants. <input type="checkbox"/> <b>If pain: FENTANYL 1 mcg/kg</b> (max single dose 100 mcg) IVP/IN/IM/IO. May repeat once in 5 min: 0.5 mcg/kg (max dose 50 mcg). Max dose per SOP: 150 mcg (1.5 mcg/kg). <b>Elderly (&gt;65) or debilitated: 0.5 mcg/kg (max single dose 50 mcg)</b> IVP/IN/IM/IO. <b>Additional doses require OLMC:</b> 0.5 mcg/kg q. 5 min up to a total of 3 mcg/kg (300 mcg) if indicated & available. <input type="checkbox"/> If considerable muscle twitching: readjust lateral pad away from pectoral muscle <input type="checkbox"/> Complete IMC and prepare for transport.		
<b>If no mechanical capture and pulse present:</b> *Continue norepinephrine per SOP		
Continue to reassess patient for pulses & hemodynamic response		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to differentiate patient's need for immediate transportation versus continued assessment and treatment at the scene <input type="checkbox"/> Failure to determine the patient's primary problem <input type="checkbox"/> Performs any improper technique resulting in potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Factually document below your rationale for checking any of the above critical criteria.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

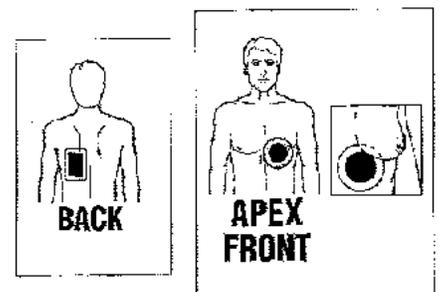
- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 12/16

Preceptor (PRINT NAME – signature)

**Notes:**

Muscle twitching does not mean that the pacemaker is producing good cardiac output. Effective capture should improve hemodynamic status.  
Troubleshooting failure to capture: ✓ pads for good skin contact; correct placement; correct lead selection; snug wire connections



**NWC EMSS Skill Performance Record**  
**SYNCHRONIZED CARDIOVERSION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Prepare/assess patient</b>		
* Confirm the need for cardioversion, i.e., unstable SVT or unstable VT with pulse		
Initiate Initial Medical Care; apply SpO <sub>2</sub> monitor		
Explain procedure to pt if conscious. Warn that procedure may be uncomfortable and medication is available.		
* Remove all clothing and NTG patches from chest; briskly wipe skin w/ dry towel or gauze		
<b>Prepare equipment</b>		
✓ electrodes for expiration date; connect pace/defib cable to pace/defib electrodes		
* Peel back the protective liner on the electrodes slowly, beginning with the cable connection end. Make sure gel is moist and in the middle of the electrode.		
* Place the anterior electrode (black electrode) without gaps or wrinkles on the patient's right upper torso, lateral to the sternum and below the clavicle		
* Place the lateral (♥) red electrode under and lateral to the patient's left nipple in the midaxillary line, with the center of the electrode in the midaxillary line if possible		
* Smooth electrode center and edges onto the patient's chest to eliminate air pockets between the gel surface and the skin. Firmly press all adhesive edges to the skin		
* Select paddles mode		
* If responsive & SBP ≥ 90 (MAP ≥ 65): <b>MIDAZOLAM 5 mg IVP/IN</b> . May repeat X 1 up to <b>10 mg</b> if needed <b>and</b> SBP ≥ 90 (MAP ≥ 65). If condition deteriorating, omit sedation.		
<b>Perform procedure</b>		
* Confirm rhythm. Turn synchronizer on & adjust gain so R waves are sensed. Note marker on R wave.		
* Charge to monitor-specific joules - (SVT, A-flutter 50 J)		
* Clear patient: Look around 360°; assure no contact with pt and announce all clear		
* Depress discharge button and keep depressed until the discharge occurs		
* Assess patient for response to the procedure (ECG, pulse, mental status, pain)		
If successful: If pt in pain: fentanyl prn; complete IMC; treat post-cardioversion rhythm per SOP; transport		
If unsuccessful and pulse present: *Repeat at monitor-specific joules. Attempt appropriate drug therapy; transport.		
<b>If unsuccessful and pulse absent: CPR - treat per VF SOP</b>		
<b>Critical Criteria - Check if occurred during an attempt</b>		
<input type="checkbox"/> Failure to differentiate pt's need for immediate transport vs assessment & Rx at the scene		
<input type="checkbox"/> Failure to determine the patient's primary problem		
<input type="checkbox"/> Performs any improper technique resulting in potential for patient harm		
<input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		
<input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**DEFIBRILLATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>Prepare/assess patient</b> * Determine unresponsiveness; open airway (manually); assess for breathing/gasping; suction prn; simultaneously		
Assess pulse: If not definitively felt in <10 sec - Begin quality CPR with compressions per SOP p. 89		
<input type="checkbox"/> Remove all clothing from the patient's chest <input type="checkbox"/> Remove all nitro patches, briskly wipe skin with a dry towel or gauze <input type="checkbox"/> Disconnect Lifestart batteries; remove vest if present; DO NOT disconnect VAD batteries <input type="checkbox"/> If pulseless pt has an LVAD; ✓ SpO <sub>2</sub> . If perfusing: NO CPR and DO NOT DEFIBRILLATE (even if VF). If questionable: Call VAD Coordinator for instructions.		
<b>As quickly as possible: Prepare equipment</b> <input type="checkbox"/> ✓ electrodes for expiration date <input type="checkbox"/> Connect defib cable to pace/defib electrodes.		
* Peel back the protective liner on the electrodes slowly, beginning with the cable connection end. Make sure gel is moist and in the middle of the electrode.		
* With compressions continuing: Place anterior electrode (black) without gaps or wrinkles on the patient's right upper torso, lateral to the sternum and below the clavicle.		
* Place the lateral (♥) red electrode under and lateral to patient's left nipple in the midaxillary line, with center of the electrode in the midaxillary line if possible.		
* Smooth electrode center and edges onto the patient's chest to eliminate air pockets between the gel surface and the skin. Firmly press all adhesive edges to the skin.		
* Select paddles mode		
* ✓ <b>rhythm:</b> Pause compressions just long enough to determine if rhythm is shockable (< 5 sec) (PVT/VF)		
<b>Perform procedure</b> * Immediately resume compressions. Charge monitor to device-specific joule setting; listen to ramping tone		
* Compressor verbally counts down to the pause in compressions to shock: 5-4-3-2-1; briefly pause CPR (< 5 sec); look around 360°; clear patient		
<input type="checkbox"/> *Depress current discharge button(after last compression -not a ventilation) <input type="checkbox"/> *Without checking ECG or pulse, change compressors and resume chest compressions for 2 mins. Limit time from last compression to shock delivery & resumption of compressions to ≤5 sec. <input type="checkbox"/> NO rhythm/pulse check until after 2 min of CPR unless pt wakes or begins to move extremities		
* <b>If persistent/refractory VF:</b> change pad location to A-P. If 2 monitors available: consider dual sequential defibrillation at device-specific joule settings		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to determine the patient's need for rapid defibrillation <input type="checkbox"/> Performs any improper technique resulting in potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**CARDIAC ARREST MANAGEMENT - VF**

Name #1 (leader):	Date:
Name #2:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #3:	2nd attempt:    #1: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #2: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #3: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #4: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #5: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #6: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Name #4:	
Name #5:	
Name #6:	
Name #6:	

**Instructions to the students:** This patient was found on the floor by a family member who called 911. Assess the patient and provide care per SOPs.

- Use “Pit crew” or “Team” approach to cardiac arrest management per local policy/procedure.
- Do not move while CPR is in progress unless in a dangerous environment/adverse climate or pt. is in need of intervention not immediately available (trauma). CPR is better and has fewer interruptions when resuscitation is conducted where the pt. is found. Continue resuscitation for at least 30 minutes (non-trauma) before moving.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Begin BLS IMC – All care is organized around 2 minute cycles of CPR in C-A-B priority unless arrest is caused by hypoxic event – multiple steps may be done simultaneously if personnel resources allow</b>		
Determine unresponsiveness; open airway (manually); assess for breathing/gasping; suction prn; <b>Simultaneously:</b>		
<input type="checkbox"/> Assess pulse: If not definitively felt in <10 sec - <b>Begin quality CPR with compressions</b>		
<input type="checkbox"/> Use real-time CPR feedback device if available		
<input type="checkbox"/> Remove all clothing from the patient's chest		
<input type="checkbox"/> Remove all nitro patches, briskly wipe skin with a dry towel or gauze		
<input type="checkbox"/> Disconnect Lifestest batteries; remove vest if present; DO NOT disconnect VAD batteries		
<input type="checkbox"/> If pulseless pt has an LVAD; ✓ SpO2 . If perfusing: NO CPR and DO NOT DEFIBRILLATE (even if VF). If questionable: Call VAD Coordinator for instructions.		
<b>As quickly as possible: Prepare equipment</b>		
<input type="checkbox"/> ✓ electrodes for expiration date		
<input type="checkbox"/> Connect defib cable to pace/defib electrodes.		
<input type="checkbox"/> Peel back the protective liner on the electrodes slowly, beginning with the cable connection end. Make sure gel is moist and in the middle of the electrode.		
<input type="checkbox"/> *With compressions continuing: Place anterior electrode without gaps or wrinkles on the patient's right upper torso, lateral to the sternum and below the clavicle.		
<input type="checkbox"/> *Place the lateral electrode under and lateral to patient's left nipple in the midaxillary line, with center of the electrode in the midaxillary line if possible.		
<input type="checkbox"/> *Smooth electrode center and edges onto the patient's chest to eliminate air pockets between the gel surface and the skin. Firmly press all adhesive edges to the skin.		
<input type="checkbox"/> *Select paddles mode		
* ✓ <b>rhythm:</b> Pause compressions just long enough to determine if rhythm is shockable (< 5 sec) (PVT/VF)		
* <b>Shockable?</b> Immediately resume compressions. Charge monitor to device-specific joule setting; listen to ramping tone		
*Compressor verbally counts down to the pause in compressions to shock: 5-4-3-2-1; briefly pause CPR (< 5 sec); look around 360°; clear patient		
<input type="checkbox"/> *Depress current discharge button(after last compression -not a ventilation)		
<input type="checkbox"/> *Without checking ECG or pulse, change compressors and resume chest compressions for 2 mins. Limit time from last compression to shock delivery & resumption of compressions to ≤5 sec.		
<input type="checkbox"/> NO rhythm/pulse check until after 2 min of CPR unless pt wakes or begins to move extremities		
<b>Airway/ventilations:</b>		
<input type="checkbox"/> <b>Witnessed arrest; shockable rhythm:</b> Delayed PPV; 3 cycles (200) compressions before ventilating; O <sub>2</sub> /NRM		
<input type="checkbox"/> <b>Unwitnessed arrest:</b> BLS airways; ventilate with BVM; CPR at 30:2 ratio (5 cycles = 2 min); give 15 L O <sub>2</sub> when available		
<input type="checkbox"/> Attach impedance threshold device (ROP/ITD) to mask/advanced airway and capnography sensor to bag		

<p>* After 2 min of CPR; pause compressions (&lt;5 sec)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> *✓ rhythm (VF); change compressor</li> <li><input type="checkbox"/> * If VF/PVT *Resume compressions while defibrillator is charging.</li> <li><input type="checkbox"/> Compressor verbally counts down to pause in compressions; stop CPR &lt; 5 sec; clear patient: Defibrillate at monitor-specific J</li> </ul>	<b>Rating</b>	<p>ALS interventions with no interruption to CPR</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Establish vascular access (IV/IO): NS TKO</li> <li><input type="checkbox"/> When IV/IO available, give meds during CPR:</li> </ul>	<b>Rating</b>
<p>* Without checking ECG or pulse, immediately resume chest compressions for 2 min.</p>		<p><b>EPINEPHRINE (1mg/10mL) 1 mg IV/IO</b> Repeat every 3-5 min as long as CPR continues.</p>	
<p>* After 2 min of CPR; pause compressions (&lt;5 sec);</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> *✓ rhythm (VF); change compressor</li> <li><input type="checkbox"/> *If VF/PVT: Resume compressions while defibrillator is charging.</li> <li><input type="checkbox"/> Compressor verbally counts down to pause in compressions; stop CPR &lt; 5 sec; clear patient: Defibrillate at monitor-specific J</li> </ul>		<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>AMIODARONE 300 mg IVP/IO</b></li> <li><input type="checkbox"/> After 5 min: <b>AMIODARONE 150 mg IVP/IO</b></li> </ul>	
<p>* Without checking ECG or pulse, immediately resume chest compressions for 2 min..</p>		<ul style="list-style-type: none"> <li><input type="checkbox"/> Advanced airway prn: 10 BPM</li> <li><input type="checkbox"/> After adv airway: no compression pause for breaths</li> </ul>	
<p>* <b>If persistent/refractory VF:</b> change pad location to A-P and defibrillate per procedure. Continue pattern as long as pulseless state persists.</p>		<ul style="list-style-type: none"> <li><input type="checkbox"/> As time allows: ✓Hs &amp; Ts (Rx appropriately)</li> <li><input type="checkbox"/> <b>If possible opioid OD: NALOXONE 1 mg; repeat q. 30 sec up to 4 mg.</b></li> </ul>	
<p>If 2 monitors available: consider dual sequential defibrillation at device-specific joule settings</p>		<p><b>SODIUM BICARB 1 mEq/kg IVP/IO:</b> If arrest caused by a bicarb-responsive acidosis (DKA/TCA/ ASA OD, cocaine, diphenhydramine) or known hyperkalemia.</p>	
<p><input type="checkbox"/> <b>*2 minutes after last defib; check rhythm: (show strip of SR)</b></p> <p><i>*Identify the rhythm: _____</i></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> *✓ pulse (present); VS; capnography (70); SpO<sub>2</sub> (90%); <b>VS: BP: 86/60; P 80; R: 18 and spontaneous; T 98.6 F. The pt remains unconscious. What is indicated now?</b></li> <li><input type="checkbox"/> *Support ABCs; <b>remove ResQPod</b></li> <li><input type="checkbox"/> Assist ventilations / Do not hyperventilate even if ↑ ETCO<sub>2</sub>; titrate O<sub>2</sub> to SpO<sub>2</sub> 94% (avoid hyperventilation and hyperoxia)</li> <li><input type="checkbox"/> Start 2<sup>nd</sup> IV if needed</li> <li><input type="checkbox"/> If SBP &lt; 90 (MAP &lt; 65): IV WO while prepping <b>NOREPINEPHRINE 8 mcg/min</b> (2 mL/min IVPB), adjust upwards in 2 mcg/min (0.5 mL/min) increments prn (Max 20 mcg/min). Retake BP q. 2 min until desired BP reached, then every 5 min. Maintenance: 2 to 4 mcg/min (0.5 mL to 1 mL/min) OR (Dose: 0.03 mg IVP with caution) Keep fingers on pulse &amp; watch SpO<sub>2</sub> pleth on monitor for 5 min to detect PEA; Goal: MAP 90-100</li> <li><input type="checkbox"/> Obtain 12 L ECG ASAP (call alert if STEMI)</li> <li><input type="checkbox"/> Assess glucose level (Rx hypoglycemia)</li> </ul>			
<p><b>If patient remains unresponsive to verbal commands w/ no contraindications:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Chemical cold packs (CCP) to cheeks, palms, soles of feet; if additional CCP available, apply to neck, lateral chest, groin, axillae, temples, and/or behind knees.</li> <li><input type="checkbox"/> Avoid hyperthermia &amp; hyperglycemia</li> </ul>		<b>Rating</b>	<b>Rating</b>
<p><b>Critical Criteria - Check if occurred during an attempt</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Failure to determine the patient's need for rapid defibrillation</li> <li><input type="checkbox"/> Performs any improper technique resulting in potential for patient harm</li> <li><input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel</li> <li><input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention</li> </ul>			

**Notes on good CPR:**

**Rate:** 100-120/min (100-110 when using RQP) avoid rate >120 (use audible prompt for correct rate)

Depth: 2" – 2.4" (5-6 cm); ensure full chest recoil; minimize interruptions in chest compressions (≤ 5 sec); hand location center of chest (lower ½ of sternum). Interrupt chest compressions only for ventilations (until adv airway placed), rhythm ✓ & shock delivery; limit to < 5 sec

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1) for team**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**CARDIAC ARREST MANAGEMENT – Asystole/PEA**

Name #1 (leader):	Date:
Name #2:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #3:	2nd attempt:    #1: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #2: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #3: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #4: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #5: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #6: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Name #4:	
Name #5	
Name #6	

**Instructions to the students:** This patient appears to be about 70 years old and was found in bed by a family member who called 911. There are no long-term indications of death. Assess the patient and provide care per SOPs.

- Use “Pit crew” or “Team” approach to cardiac arrest management per local policy/procedure.
- Do not move while CPR is in progress unless in a dangerous environment/adverse climate or pt. is in need of intervention not immediately available (trauma). CPR is better and has fewer interruptions when resuscitation is conducted where the pt. is found. Continue resuscitation for at least 30 minutes (non-trauma) before moving.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
One team member seeks information about possible contributing factors: <input type="checkbox"/> Hypoxia (ventilate/O <sub>2</sub> ) <input type="checkbox"/> Hypothermia (core rewarm) <input type="checkbox"/> Toxins (opiate? Naloxone; TCA? NaHCO <sub>3</sub> ) <input type="checkbox"/> Hypovolemia (IVF) <input type="checkbox"/> Hypo/hyperkalemia (NaHCO <sub>3</sub> ) <input type="checkbox"/> Tamponade, cardiac (IVF) <input type="checkbox"/> Thrombosis <input type="checkbox"/> H ion (acidosis; NaHCO <sub>3</sub> ) <input type="checkbox"/> Hypoglycemia (✓ glucose) <input type="checkbox"/> Tension pneumo (✓ lung snds; pleural decompression)		
Begin <b>BLS IMC</b> – All care is organized around 2 min cycles of CPR in C-A-B priority unless arrest is caused by hypoxic event – multiple steps may be done simultaneously if personnel resources allow		
Determine unresponsiveness; open airway (manually); assess for breathing/gasping; suction prn; <b>simultaneously:</b>		
<input type="checkbox"/> Assess pulse: If not definitively felt in <10 sec - <b>Begin quality CPR with compressions</b> <input type="checkbox"/> Use real-time CPR feedback device if available		
<input type="checkbox"/> Remove all clothing from the patient's chest <input type="checkbox"/> Remove all nitro patches, briskly wipe skin with a dry towel or gauze <input type="checkbox"/> Disconnect Lifestart batteries; remove vest if present; DO NOT disconnect VAD batteries <input type="checkbox"/> If pulseless pt has an LVAD; ✓ SpO <sub>2</sub> . If perfusing: NO CPR and DO NOT DEFIBRILLATE (even if VF). If questionable: Call VAD Coordinator for instructions.		
<b>As quickly as possible: Prepare equipment</b> <input type="checkbox"/> ✓ electrodes for expiration date <input type="checkbox"/> Connect defib cable to pace/defib electrodes. <input type="checkbox"/> Peel back the protective liner on the electrodes slowly, beginning with the cable connection end. Make sure gel is moist and in the middle of the electrode. <input type="checkbox"/> *With compressions continuing: Place anterior electrode without gaps or wrinkles on the patient's right upper torso, lateral to the sternum and below the clavicle. <input type="checkbox"/> *Place the lateral electrode under and lateral to patient's left nipple in the midaxillary line, with center of the electrode in the midaxillary line if possible. <input type="checkbox"/> *Smooth electrode center and edges onto the patient's chest to eliminate air pockets between the gel surface and the skin. Firmly press all adhesive edges to the skin. <input type="checkbox"/> *Select paddles mode		
*✓ <b>rhythm:</b> Pause compressions just long enough to determine if rhythm is shockable (< 5 sec) (PVT/VF)		
* <b>Not Shockable?</b> Resume compressions; no rhythm/pulse check until after 2 min of CPR unless pt. wakes or begins to move extremities (see below)		
<b>Airway/ventilations:</b> <input type="checkbox"/> Witnessed arrest; shockable rhythm: Delayed PPV; 3 cycles (200) compressions before ventilating; O <sub>2</sub> /NRM <input type="checkbox"/> Unwitnessed arrest: BLS airways; ventilate with BVM; CPR at 30:2 ratio (5 cycles = 2 min); give 15 L O <sub>2</sub> when available <input type="checkbox"/> Attach impedance threshold device (RQP/ITD) to mask/advanced airway and capnography sensor to bag		
* After 2 min of CPR; pause compressions (<5 sec)	<b>Rating</b>	<b>Rating</b>
<input type="checkbox"/> *✓ rhythm (VF); change compressor <input type="checkbox"/> * Non-shockable	ALS interventions with no interruption to CPR <input type="checkbox"/> Establish vascular access (IV/IO): NS TKO <input type="checkbox"/> When IV/IO available, give meds during CPR	

Performance standard		Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)			
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique			
2 Successful; competent with correct timing, sequence & technique, no prompting necessary			
* Without checking ECG or pulse, immediately resume chest compressions for 2 min.		<b>EPINEPHRINE (1mg/10mL) 1 mg IV/IO</b> Repeat every 3-5 min as long as CPR continues.	Rating
*After 2 min of CPR; pause compressions (<5 sec); <input type="checkbox"/> *✓ rhythm (VF); change compressor <input type="checkbox"/> *Non-shockable		<input type="checkbox"/> Advanced airway prn: 10 BPM <input type="checkbox"/> After adv airway: no compression pause for breaths	
* Without checking ECG or pulse, immediately resume chest compressions for 2 min.		<input type="checkbox"/> As time allows: ✓Hs & Ts (Rx appropriately) <input type="checkbox"/> If possible opioid OD: NALOXONE 1 mg; repeat q. 30 sec up to 4 mg.	
Repeat pattern as long as CPR continues		<b>SODIUM BICARB 1 mEq/kg IVP/IO:</b> If arrest caused by a bicarb-responsive acidosis (DKA/TCA/ ASA OD, cocaine, diphenhydramine) or known hyperkalemia.	
<input type="checkbox"/> <b>*2 minutes after last defib; check rhythm: (show strip of SR)</b> <i>*Identify the rhythm:</i> _____ <input type="checkbox"/> *✓ pulse (present); VS; capnography (70); SpO <sub>2</sub> (90%); <b>VS: BP: 86/60; P 80; R: 18 and spontaneous; T 98.6 F. The pt remains unconscious. What is indicated now?</b> <input type="checkbox"/> *Support ABCs; remove ResQPod <input type="checkbox"/> Assist ventilations / Do not hyperventilate even if ↑ ETCO <sub>2</sub> ; titrate O <sub>2</sub> to SpO <sub>2</sub> 94% (avoid hyperventilation and hyperoxia) <input type="checkbox"/> Start 2 <sup>nd</sup> IV if needed <input type="checkbox"/> If SBP < 90 (MAP < 65): IV WO while prepping <b>NOREPINEPHRINE 8 mcg/min</b> (2 mL/min IVPB), adjust upwards in 2 mcg/min (0.5 mL/min) increments prn (Max 20 mcg/min). Retake BP q. 2 min until desired BP reached, then every 5 min. Maintenance: 2 to 4 mcg/min (0.5 mL to 1 mL/min) OR (Dose: 0.03 mg IVP with caution) Keep fingers on pulse & watch SpO <sub>2</sub> pleth on monitor for 5 min to detect PEA; Goal: MAP 90-100 <input type="checkbox"/> Obtain 12 L ECG ASAP (call alert if STEMI) <input type="checkbox"/> Assess glucose level (Rx hypoglycemia)			
<b>If patient remains unresponsive to verbal commands w/ no contraindications:</b>		Rating	Rating
<input type="checkbox"/> Chemical cold packs (CCP) to cheeks, palms, soles of feet; if additional CCP available, apply to neck, lateral chest, groin, axillae, temples, and/or behind knees. <input type="checkbox"/> Avoid hyperthermia & hyperglycemia			
<b>VERBALIZES criteria for TERMINATION OF RESUSCITATION:</b> If normothermic pt. remains in persistent monitored asystole or no shock advised rhythm for 30 minutes or longer despite steps above, and if ETCO <sub>2</sub> remains ≤ 10 for 20 min & no reversible causes of arrest are identified, seek OLMC physician's approval to terminate resuscitation.			
<b>Critical Criteria - Check if occurred during an attempt</b>			
<input type="checkbox"/> Failure to determine the patient's need for rapid defibrillation <input type="checkbox"/> Performs any improper technique resulting in potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention			

**Notes on good CPR:**

**Rate:** 100-120/min (100-110 when using RQP) avoid rate >120 (use audible prompt for correct rate)

Depth: 2" – 2.4" (5-6 cm); ensure full chest recoil; minimize interruptions in chest compressions (≤ 5 sec); hand location center of chest (lower ½ of sternum). Interrupt chest compressions only for ventilations (until adv airway placed), rhythm ✓ & shock delivery; limit to < 5 sec

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1) for team**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**ResQPOD® Impedance Threshold Device (ITD)**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* State purpose of ResQPOD® Impedance Threshold Device (ITD): The ResQPOD lowers intrathoracic pressure during the recoil phase of CPR by selectively restricting unnecessary airflow into the chest. This vacuum increases preload, lowers intracranial pressure (ICP), and improves blood flow to the brain and vital organs.		
* Verify indication for ITD: Cardiac arrest w/ CPR; age >12		
*Confirm absence of contraindications <input type="checkbox"/> Flail chest <input type="checkbox"/> Pulse present <input type="checkbox"/> Children < 18: The ResQPOD should be effective in patients of all ages, however it has only been tested clinically in adults ages 18 years and above. Animal studies in a pediatric model of cardiac arrest, have demonstrated that the ResQPOD effectively enhances circulation in 10 kg piglets in cardiac arrest. It is the ultimate decision of the prescribing physician to determine in what ages of patients the ResQPOD should be used.		
Verbalize: Must be used with quality CPR (good compression rate & depth, release completely, minimize interruptions, no hyperventilation) for improved pt outcomes		
Remove ITD from sealed package (single-use device)		
Remove adhesive tab from timing light switch (tab prevents inadvertent activation)		
Slide timing light switch slightly counterclockwise, to activate ventilation timing lights Timing lights flash 10 times per minute, for 1 second, indicating desired rate & duration of ventilations with advanced airway		
Put adhesive tab on other side of switch, to prevent accidentally turning switch off		
Place ITD directly on ETT or King LT between bag-valve device & face mask Note: microstream capnography sensor will not fit into ITD without use of an adapter [or colorimetric EtCO <sub>2</sub> detector].		
Assure continuous tight face-mask seal using 2-person BVM technique during chest compressions for device to be effective (chest compressor squeezes BVM)		
If using digital/waveform capnography: place sensor between ITD & bag-valve device		
* When return of spontaneous circulation (ROSC) occurs, remove ITD		
Retain device as timing device for ventilations, or for use if cardiac arrest recurs		
If device fills with secretions, shake and ventilate secretions out of device		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

- Rating: (Select 1)**
- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
  - Competent:** Satisfactory performance without critical error; minimal coaching needed.
  - Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**Mechanical Circulatory Support (MCS) using a Ventricular Assist Device**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

Notes: Unit runs on electricity provided by a Power Base Unit (PBU) during stationary use or by rechargeable batteries worn during mobile use. Because blood bypasses aortic valve, there may be no pulse, especially with continuous flow pumps.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>* State purpose of MCS:</b> Assist a failing heart by taking blood out of LV, through the pump, & back into ascending aorta – reduces need for native heart to pump blood through aortic valve, reducing cardiac workload & O <sub>2</sub> demand.		
<b>Response to a pt with a VAD</b> <input type="checkbox"/> <b>Call VAD Coordinator immediately</b> if known – phone number from pt or caregiver or one of the listed centers below if specific Coordinator unknown <input type="checkbox"/> Get history/instructions, VAD parameters from family/caregiver. Patients will be on anticoagulation medications – get list of all meds Patients will often have pacemakers and/or Internal Cardioverter Devices (ICDs). <input type="checkbox"/> Ask if pt is looking, feeling, or acting differently than their baseline		
<b>Decision tree responsive patient</b> <input type="checkbox"/> Assess ABCs: SpO <sub>2</sub> waveforms may be flat; without amplitude despite accurate readings <input type="checkbox"/> If breathing labored; O <sub>2</sub> per SOP <input type="checkbox"/> Assess circulation: May NOT have a pulse (NORMAL); check cap refill, color, temp, mental status <input type="checkbox"/> Listen for VAD sounds LUQ (when working device makes a quiet whiling sound) <input type="checkbox"/> Look and listen for alarms; pt & caregivers can help troubleshoot alarms		
<b>Decision tree unresponsive patients</b> <input type="checkbox"/> Airway, breathing assessment/Rx per SOP <input type="checkbox"/> Quick check for driveline or wire existing abdomen, batteries, cable, system controller <input type="checkbox"/> Caution removing clothes, especially using trauma scissors – DON'T CUT CABLES OR WIRES <input type="checkbox"/> Assess circulation: May NOT have a pulse (NORMAL); check cap refill, color, temp, mental status <input type="checkbox"/> Listen for VAD sounds LUQ (when working device makes a quiet whiling sound) <input type="checkbox"/> Look and listen for alarms; pt & caregivers can help troubleshoot alarms – see below <input type="checkbox"/> Consider other causes of AMS: stroke, cardiogenic shock, respiratory arrest, hyper or hypoglycemia – Rx per SOP		
<b>State common causes of VAD alarms</b> <b>Pt not connected to power properly</b> <input type="checkbox"/> Check all connections; fix loose connections <input type="checkbox"/> ✓ Driveline connection to System Controller <input type="checkbox"/> ✓ System Controller to battery clip <input type="checkbox"/> ✓ Batteries “engaged” in battery clips – NEVER DISCONNECT BOTH BATTERIES AT THE SAME TIME or pump will stop <input type="checkbox"/> ✓ System controller in cable connected to wall unit <input type="checkbox"/> Have pt/caregiver show how to silence alarms, use a hand pump if applicable		
<b>Patient condition exists where low or no flow (cardiac output) is present</b> <input type="checkbox"/> Do they appear to be in cardiogenic shock? Can be from electrical disruption to pump or pump malfunction (rare) <input type="checkbox"/> If yes, start SOPs; contact VAD Coordinator – provide assessments and VAD parameters if able <input type="checkbox"/> Transport to nearest VAD Center if possible; if no airway – transport to nearest hospital <input type="checkbox"/> Avoid external chest compressions if possible: Pose a risk due to location of outflow graft on aorta & inflow conduit in the LV apex. Dislodgement could lead to fatal hemorrhage. Contact VAD Coordinator for instructions re: CPR. Get instructions for hand pumping if applicable. <b>CHEST COMPRESSIONS ARE ALLOWED</b> if patient is unconscious and non-breathing.		
<b>ECG findings:</b> <input type="checkbox"/> VADs fix the plumbing - electrical conduction system should be intact; Do NOT expect asystole; pt may be conscious w/ V-fib <input type="checkbox"/> ECG waveforms may have a lot of artifact due to the device. <input type="checkbox"/> Can have dysrhythmias but are better tolerated because pump continues to function despite irregular rhythm – Rx dysrhythmias with drugs per SOP		

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>Caveats on DEFIBRILLATION</b> Majority of VAD pts can be shocked without disconnecting the percutaneous lead from the System Controller or stopping the pump prior to delivering the shock; but older units may need to be disconnected first and hand pumped before defib <ul style="list-style-type: none"> <li><input type="checkbox"/> Contact VAD Coordinator BEFORE defibrillating</li> <li><input type="checkbox"/> Only shock if pt is unresponsive with poor perfusion/decreased circulation per cap refill (remember, no pulse is normal) and if you cannot contact VAD coordinator</li> <li><input type="checkbox"/> Do not defibrillate over the pump; defibrillate at nipple line or above. Anterior-posterior pad placement preferred.</li> <li><input type="checkbox"/> <b>Warning:</b> If VAD stops operating &amp; blood is stagnant in pump &amp; conduits for &gt; a few min (depending on pt's anticoagulated state) there is risk of stroke and/or thromboembolism if device is restarted. Retrograde flow may occur during pump stoppage.</li> </ul>			
Transport to nearest VAD center if possible			
Bring all VAD equipment if possible: batteries, battery clips, power base, plugs, battery charger (pt cannot be out of power)			
Allow family member/caregiver to ride in ambulance if possible			
Notes: NO MRIs - CT Scans are ok; avoid water submersion; avoid contact with strong magnets or magnetic fields			

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

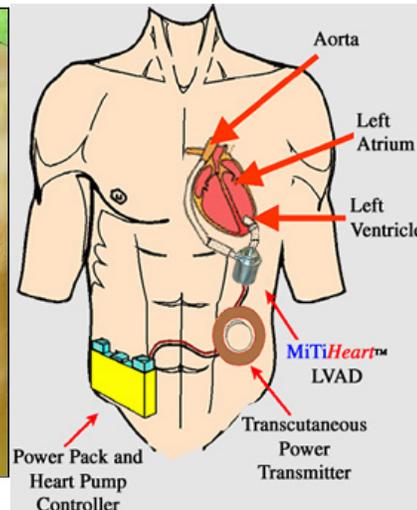
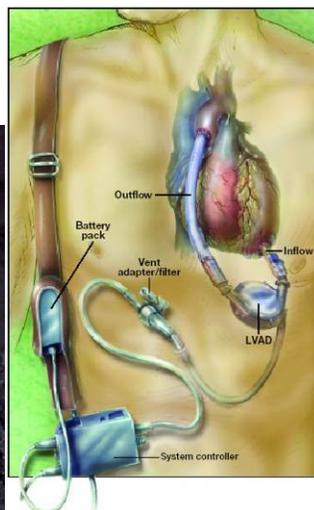
CJM 12/16

Preceptor (PRINT NAME – signature)

## Heartmate XVE & Heartmate II

### Illinois Mechanical Circulatory Support Implant Centers

Advocate Christ Medical Center - Oak Lawn	1-877-684-4327
Loyola University Medical Center - Maywood	1-708-216-8000
Northwestern Memorial Hospital - Chicago	1-312-695-9611
Rush University Medical Center - Chicago	1-312-656-6813
OSF Saint Francis Medical Center - Peoria	1-309-655-4101
University of Chicago Medical Center - Chicago	1-773-753-1880 id# 4823



## NWC EMSS Skill Performance Record

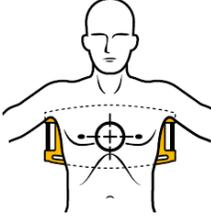
# Application & Use LUCAS® CPR DEVICE

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

The NWC EMSS requires that LUCAS® External Cardiac Compressor only be used by: EMS personnel who have received training and have been competencied in how to use LUCAS®.

Performance standard	Attempt 1 rating	Attempt 2 rating
<p>0 Step omitted (or leave blank)</p> <p>1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique</p> <p>2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>		
<p><b>*States indication:</b> Intended for use as an adjunct to manual CPR on adult patients who have cardiac arrest in cases when effective manual CPR is not possible (e.g., during patient transport or extended CPR when fatigue may prohibit the delivery of effective/ consistent compressions to the victim, or when insufficient EMS personnel are available to provide effective CPR). Always follow local and/or international guidelines for CPR when you use the LUCAS Chest Compression System.</p>		
<p><b>*States CONTRAINDICATIONS:</b> Do NOT use LUCAS® device in the following cases:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Impossible to position the LUCAS® device safely or correctly on patient's chest.</li> <li><input type="checkbox"/> <b>Adult patient too small:</b> If LUCAS® alerts with 3 fast signals when lowering Suction Cup and you cannot enter the PAUSE or ACTIVE modes.</li> <li><input type="checkbox"/> <b>Adult too large:</b> Cannot lock Upper Part to back plate without compressing pt's chest.</li> <li><input type="checkbox"/> Patient is a child</li> <li><input type="checkbox"/> Pregnant woman: Must lie 10-15° to side to prevent vena cava syndrome after 20 wks.</li> <li><input type="checkbox"/> No indication that chest compressions are likely to help patient (Triple zero)</li> <li><input type="checkbox"/> Valid POLST form with DNR marked</li> </ul>		
<p><b>States possible SIDE EFFECTS of using the device</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Rib fractures and other injuries are common but acceptable consequences of CPR. Assess patients after resuscitation for resuscitation-related injuries.</li> <li><input type="checkbox"/> Skin abrasions, bruising and chest soreness common after Lucas use</li> </ul>		
<p><b>*Explains meaning of all User Control Panel keys</b></p> <p><b>ON/OFF:</b> Device will power up/ power down when this key is pushed for 1 second. When device powers up, an audible signal sequence is heard and device automatically does a self-test. When self-test is complete, the audible signal stops and a green LED light beside the ADJUST key illuminates. This takes ~3 seconds.</p>		
<p><b>ADJUST:</b></p> <p>Used to adjust position of the Suction Cup. When pushed, you can manually move Suction Cup up or down.</p> <ul style="list-style-type: none"> <li>• To set Start Position, manually push Suction Cup down onto chest. To lift the Suction Cup, manually pull it up.</li> <li>• Device can be set for manual or automatic movement of Suction Cup.</li> </ul>		
<p><b>PAUSE:</b></p> <p>When PAUSE is pushed after adjusting Suction Cup to chest, the height position is fine-tuned and locked into Start Position. When pushed during compressions, the LUCAS® will stop compressions and lock the Suction Cup in its Start Position.</p> <p><i>Setup options:</i> Device can be set up for different automatic height adjustments of Suction Cup.</p>		
<p><b>ACTIVE (continuous):</b> When this key is pushed, LUCAS® performs continuous chest compressions. The green LED signal will blink 10 times/min to alert for ventilation during ongoing compressions.</p> <p><i>Setup options:</i> Device can be setup for different numbers of ventilation alerts, audible alert signal on/off, ventilation pause duration, and automatic adjustment of Suction Cup. Rate and depth can be configured to different fixed values. Device can be configured to alter between rates by pushing the ACTIVE key (continuous or 30:2) during ongoing compressions.</p>		

<p style="text-align: center;"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p style="text-align: center;"><b>Attempt 1 rating</b></p>	<p style="text-align: center;"><b>Attempt 2 rating</b></p>
<p><b>ACTIVE (30:2):</b> When this key is pushed, the LUCAS® performs 30 chest compressions and then temporarily stops. During the stop, perform 2 ventilations. After the stop the cycle starts again. An intermittent LED in combination with an audible signal sequence alerts operator before each ventilation pause.</p>		
<p><b>BATTERY indicator:</b> 3 green LEDs show Battery charge status:</p> <ul style="list-style-type: none"> <li>3 green LEDs: Fully charged; 2 green LEDs: 2/3 charged; 1 green LED: 1/3 charged</li> <li>One intermittent <b>yellow</b> LED and alarm during operation: low battery, ~10 minutes of operating capacity remaining</li> <li>One intermittent <b>red</b> LED and alarm signal: Battery is empty and must be recharged, or Battery is too hot</li> </ul> <p>Note: When LED to the far right is yellow and not green, Battery has reached end of service life. Replace this Battery with a new one.</p>		
<p><b>MUTE:</b> If this key is pushed when LUCAS® operates, alarm is muted for 60 seconds.  If pushed when LUCAS is powered off, the Battery indicator shows Battery charge status.</p>		
<p><b>High priority alarms:</b> One intermittent <b>red LED</b> and an alarm signal sequence indicate malfunction. A high priority alarm will take precedence over lower priority or information alarms.</p>		
<p><b>Transmit data:</b> Push this key to send device data and receive new setup options. The device has to be in Power OFF mode to send and receive data.</p>		
<p><b>Application and use</b></p>		
<p>Follows manufacturer's recommendations regarding preparation of device, applications of straps to unit and charging battery</p>		
<p><b>Arrival at patient:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>*Confirm cardiac arrest and need for resuscitation. Start high quality, high perfusion, manual CPR for at least 3 rounds of 2-minute CPR cycles (first 6 min of resuscitation) BEFORE device application:</b></li> <li><input type="checkbox"/> <b>*ETCO<sub>2</sub> reading within 90 sec of first cardiac compression</b> and again every 2 minutes</li> <li><input type="checkbox"/> *Place ECG defib pads and use real-time CPR feedback technology.</li> <li><input type="checkbox"/> *Check rhythm every 2 min and defibrillate per SOP (if indicated) at least 3 times before placing pt into LUCAS® device.</li> <li><input type="checkbox"/> Find pulse while compressions in place prior to rhythm check. When CPR paused, should know in 3 sec if present or absent. No pulse, resume CPR</li> <li><input type="checkbox"/> Once resuscitation started, use same monitor UNLESS an older unit w/out feedback capabilities</li> <li><input type="checkbox"/> *Zoll CPR feedback device stays in place throughout resuscitation regardless of CPR method</li> <li><input type="checkbox"/> *Use Physio Control CODE-STAT® sensor up to point of LUCAS® application. Turn on monitor metronome to ensure correct compression rate while device being applied.</li> <li><input type="checkbox"/> Obtain vascular access, give epinephrine and amiodarone (if VF/PVT) before placing LUCAS®</li> <li><input type="checkbox"/> <b>Witnessed arrest:</b> BLS airways + O<sub>2</sub> 15 L/NRM for 6 min (apneic oxygenation) w/ CPR in progress</li> <li><input type="checkbox"/> <b>Unwitnessed arrest:</b> BLS airways + O<sub>2</sub> 15L/BVM (30:2 ratio) for first 6 minutes</li> <li><input type="checkbox"/> If arrest persists after 6 minutes, assume a prolonged period of CPR may be needed, and use of an automated device may be warranted unless contraindicated.</li> </ul>		
<p><b>Prepare patient &amp; equipment for device application</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Mark chest with Sharpie to assess for migration of device</li> </ul>		

<p style="text-align: center;"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p style="text-align: center;"><b>Attempt 1 rating</b></p>	<p style="text-align: center;"><b>Attempt 2 rating</b></p>
<p><b>Deploy device</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> *DO NOT interrupt CPR for longer than 5-10 seconds from last manual compression to first mechanical compression. Application time will be monitored and documented.</li> <li><input type="checkbox"/> *Unpack device and <b>Push ON/OFF</b> on the User Control Panel for 1 sec to power up and start self-test. Green LED adjacent to <b>ADJUST</b> key illuminates when device is ready for use.</li> <li><input type="checkbox"/> If LUCAS left in ADJUST mode, it will power off automatically after 5 minutes.</li> </ul>		
<p><b>*Option #1 placing back plate – must do one correctly</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> With manual CPR continuing - Position LUCAS back plate at head of pt.</li> <li><input type="checkbox"/> Temporarily stop CPR. One member supports head and shoulders while another steps in front of pt, holds arms and both lift pt's upper body enough for a 3<sup>rd</sup> member to slide back plate into position. Return pt to supine position, immediately resume manual CPR with &lt; 10 sec of CPR interruption.</li> </ul> <p><b>*Option #2 placing back plate</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Position back plate perpendicular to side of pt.</li> <li><input type="checkbox"/> Temporarily stop CPR. One member supports head while another positions self at patient's side and coordinates a log roll maneuver while a 3<sup>rd</sup> member slides back plate into position. Return pt to supine position, immediately resume CPR with &lt; 10 sec of CPR interruption.</li> <li><input type="checkbox"/> *For both options; ensure back plate is below armpits and pt's arms are outside back plate.</li> </ul> 		
<p><b>*Attach upper part (Hood)</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>During ongoing manual CPR</b>, attach support leg nearest to compressor to the back plate.</li> <li><input type="checkbox"/> Slide other support leg through arms of manual compressor and attach to Back Plate so both support legs are securely locked into the Back Plate</li> </ul>		
<p><b>Adjust Suction Cup</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> *Set device to <b>ADJUST</b> mode</li> <li><input type="checkbox"/> <b>*Correctly position suction cup on patient's chest.</b> Compression point should be at same spot as for manual CPR and according to guidelines.</li> <li><input type="checkbox"/> *Stop manual compressions - <b>Lower suction cup</b> until pressure pad inside suction cup touches pt's chest without compressing chest. When pressure pad is in correct position, the lower edge of the Suction Cup is immediately above end of sternum.</li> <li><input type="checkbox"/> *If not correctly positioned in relation to pt, <b>adjust position</b> by pulling on the support legs. Person assembling device ensures correct position. If the Suction Cup is pushed down too hard or too loose to the chest, LUCAS® will adjust Suction Cup to correct Start Position.</li> <li><input type="checkbox"/> *Push <b>PAUSE to lock the Start</b> Position.</li> </ul>		
<p><b>*Initiating mechanical compressions</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Push <b>ACTIVE</b> (continuous) OR <b>ACTIVE (30:2)</b> to start compressions</li> <li><input type="checkbox"/> Do not leave the patient or device unattended while LUCAS® is active</li> <li><input type="checkbox"/> Check that device is working as it should – compression frequency and depth</li> <li><input type="checkbox"/> To stop chest compressions, push <b>PAUSE</b></li> </ul>		
<p><b>*Apply stabilization strap while LUCAS® is active</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Remove neck strap (part of Stabilization Strap) from Carrying Case (support legs straps should already be attached to support legs)</li> <li><input type="checkbox"/> Extend neck strap fully at the buckles.</li> <li><input type="checkbox"/> Lift head and put cushion behind neck as near to shoulders as possible.</li> <li><input type="checkbox"/> Connect buckles on support leg straps with buckles on neck strap. Ensure straps not twisted.</li> <li><input type="checkbox"/> Hold LUCAS® support legs stable and tighten neck strap.</li> <li><input type="checkbox"/> Make sure Suction Cup position remains correct on patient's chest.</li> </ul>		
<p><b>*Defibrillation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Pause compression for &lt; 5 sec to check rhythm. Resume compressions.</li> <li><input type="checkbox"/> If shockable: Perform defibrillation per usual procedure while LUCAS® is operational.</li> <li><input type="checkbox"/> Ensure that no defib pads or wires are under Suction Cup.</li> <li><input type="checkbox"/> After defibrillation, ensure correct position of Suction Cup. Readjust prn.</li> </ul>		

Performance standard			Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)			
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique			
2	Successful; competent with correct timing, sequence & technique , no prompting necessary			
<b>Advanced airways</b>				
<input type="checkbox"/> Intubation using King Vision® is possible while LUCAS® is operating. Attempt ETI first. <input type="checkbox"/> If unsuccessful after 2 attempts – insert extraglottic airway				
<b>Moving patient: Secure arms to device</b>				
<input type="checkbox"/> *When ready to move pt, secure arms at the wrist with Patient Straps to LUCAS® hood. <input type="checkbox"/> *Do not use straps for lifting. They are only to fixate patient to device. <input type="checkbox"/> Caution - skin burns: Temps of hood and battery may rise above 118 °F / 48 °C. If hot, avoid prolonged contact to prevent skin burns. Remove patient hands from patient straps.				
<b>Lifting patient while device operates:</b> Follow manufacturer's instructions regarding use of handholds below claw locks and moving patient to stretcher.				
<b>Transporting patient</b>				
The LUCAS® can deliver compressions while patient is moved and/or transported if:				
<input type="checkbox"/> The device and patient are safely positioned on the transportation device <input type="checkbox"/> The device stays in the correct position and angle on the patient's chest				
<b>Changing battery</b>				
<input type="checkbox"/> Must always have a charged spare LUCAS Battery in the Carrying Case. <input type="checkbox"/> Follow manufacturer's instructions for battery change. <input type="checkbox"/> If battery changed in <60 seconds, device remembers Suction Cup Start Position. Quickly resume compressions by pushing ACTIVE (continuous or 30:2) key. If it takes >60 seconds, device performs a self-test and you must set the Start Position again.				
*Can verbalize major manufacturer's cautions and warnings relative to device operation.				
<b>Documentation</b>				
<input type="checkbox"/> Standard cardiac arrest documentation plus <input type="checkbox"/> *Time of device application <input type="checkbox"/> *Any evidence of patient adverse effects (skin breakdown, suggested fracture or chest deformity must be reported to the EMS MD as soon as patient safety and welfare has been addressed.				
<b>Competency Check:</b>				
*Actual time in minutes from last manual compression to first mechanical compression (must be <10 sec)	1 <sup>st</sup> attempt	2 <sup>nd</sup> attempt		
<b>Critical Criteria - Check if occurred during an attempt – must automatically redo station</b>				
<input type="checkbox"/> Exhibited unacceptable affect with patient, family, bystanders, or other personnel <input type="checkbox"/> Failed to do 6 minutes of quality manual CPR prior to deploying device <input type="checkbox"/> Failed to activate CPR feedback device prior to deploying LUCAS <input type="checkbox"/> Failed to obtain ETCO <sub>2</sub> within 90 sec of first compression <input type="checkbox"/> Applied device in a dangerous or inappropriate manner <input type="checkbox"/> Interrupted compressions for longer than 10 seconds at any time. <input type="checkbox"/> Could not appropriately troubleshoot alarms				

**Factually document below your rationale for checking any of the above critical criteria.**

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

Preceptor (Printed Name & Signature)

## 2.6 Device components



- 1. Hood
- 2. User Control Panel
- 3. Battery
- 4. DC input
- 5. Bellows
- 6. Suction Cup\*
- 7. Patient wrist strap\*
- 8. Release ring
- 9. Support leg
- 10. Support leg strap  
(part of the Stabilization Strap)
- 11. Neck strap\*  
(part of the Stabilization Strap)
- 12. Back Plate\*
- 13. Claw locks

- 14. Car Power Cable
- 15. Power Supply cord
- 16. Power Supply
- 17. External Battery Charger
- 18. Carrying Case
- 19. Charger port access
- 20. Transparent top window

- 21. Upper Part
- 22. Pressure pad\*
- 23. Vent holes

\* Applied part according to IEC 60601-1





ARM Procedure coming...stay tuned!









**NWC EMSS Skill Performance Record**  
**INTRAVENOUS CATHETER INSERTION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Objective:** Obtain and maintain peripheral vascular access for medication administration, fluid resuscitation, proactive patient care, and collaborative care with the hospital.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Prepare equipment:</b> <input type="checkbox"/> Gloves <input type="checkbox"/> Start Kit: chlorhexidine skin prep, tourniquet, gauze, Tegaderm, and tape <input type="checkbox"/> 10mL Normal Saline Syringe (Flush) Verify and examine for sterility, seal, leak, cloudiness, contamination, other damage, and expiration date <input type="checkbox"/> BD Nexiva or appropriate size catheter and extension tubing (J Loop): If using J loop, prime tubing and leave flush attached. BD Nexiva does not require priming as blood will fill tubing prior to flush.		
<b>Prepare the patient:</b> <input type="checkbox"/> Explain procedure to patient <input type="checkbox"/> Gain consent from decisional adult		
<b>Aseptic Procedure:</b> <input type="checkbox"/> Observe strict universal precautions & aseptic technique throughout catheter insertion procedure		
<b>Site selection/preparation:</b> <input type="checkbox"/> Expose extremity, inspect, and palpate for best veins. Consider asking patient where their best veins are located. Distal sites are preferred for medication administration and antecubital for high volume fluid resuscitation. <input type="checkbox"/> Apply tourniquet 4"-6" proximal to selected IV site. Never leave in place for more than two minutes. Distal pulse should remain palpable <input type="checkbox"/> Lightly palpate veins with index finger and identify best option. If it rolls or feels hard and rope-like, select another vein. Avoid points of flexion if possible. If vein is easily palpable but not sufficiently dilated: <input type="checkbox"/> Place extremity in a dependent position <input type="checkbox"/> Have patient open and close fist several times <input type="checkbox"/> Tap gently over vein with your finger. <b>Do not slap</b> , it will collapse the vein. <input type="checkbox"/> Prep site with chlorhexidine skin prep. Use sufficient friction to ensure the solution reaches into the cracks and fissures of the skin. Allow site to dry. ~20-30 seconds <input type="checkbox"/> Do not contaminate by touching site after cleaned		
<b>Catheter insertion:</b> <input type="checkbox"/> Remove protective cap from needle in a straight outward manner keeping catheter sterile <input type="checkbox"/> Loosen catheter from needle. Pull for Nexiva; twist for others. Failure to do so may affect needle retraction. <input type="checkbox"/> Inspect needle tip for defects <input type="checkbox"/> Anchor vein with thumb distal to insertion site, stretching the skin near the vein Do not place your thumb directly over the vein or blood flow will be occluded and the vein will flatten If using a hand vein, slightly flex patient's wrist. <input type="checkbox"/> Hold catheter with thumb and index finger of dominant hand <input type="checkbox"/> With the bevel up, smoothly insert needle through skin and vein at a 15-30° angle. Take care not to enter too fast or too deeply as the needle can pass through the back-side of the vein <input type="checkbox"/> Observe for blood return. Nexiva flash is observed in the clear catheter; others have a flashback chamber. <input type="checkbox"/> If vein is successfully cannulated, lower catheter angle, advance needle and catheter 1/8 <sup>th</sup> inch to ensure proper tip positioning in vein <input type="checkbox"/> If no flash observed, withdraw needle and catheter slightly and re-attempt insertion into the vein. Use caution not to withdraw needle tip completely out of skin. If this does occur, discontinue this site. <input type="checkbox"/> If vein is missed or blows, retract needle, apply direct pressure/dressing, and try again with a new catheter at an alternate site proximal to original insertion if same limb. Limit to 2 attempts, unless OLMC authorizes additional attempts. Use proximal humerus IO if critical need for IV fluid replacement or IV drug route unless pt in cardiac arrest; then use tibial IO approach.		

<p style="text-align: center;"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p style="text-align: center;"><b>Attempt 1 rating</b></p>	<p style="text-align: center;"><b>Attempt 2 rating</b></p>
<p><b>If flash observed: Catheter advancement:</b></p> <p><input type="checkbox"/> Hold needle stationary and advance catheter off the needle into the vein up to its hub</p> <p><input type="checkbox"/> <b>Release tourniquet</b> - Failure to release before needle retraction may result in blood exposure with open catheters.</p>		
<p><b>Needle retraction:</b></p> <p><input type="checkbox"/> <b>BD Nexiva Closed Catheter:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Slightly retract needle. Allow tubing to fill completely with blood. Placement confirmed. (tubing will not fill if missed)</li> <li><input type="checkbox"/> Retract needle completely and remove from hub by pulling white end</li> <li><input type="checkbox"/> Clamp tubing</li> <li><input type="checkbox"/> Remove air valve and attach flush with provided leur lock tip</li> <li><input type="checkbox"/> Closed catheter system eliminates risk of blood exposure if used properly</li> </ul> <p><input type="checkbox"/> <b>Open Catheters:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Put gauze pad under hub of catheter</li> <li><input type="checkbox"/> Apply digital pressure directly proximal to catheter tip w/ one fingertip and stabilize colored hub with another fingertip without contaminating needle insertion site. If not done properly will result in bleeding from catheter.</li> <li><input type="checkbox"/> Glide the protective guard over the needle (listen for "click" that confirms safety lock) or push button to retract needle into clear safety shield.</li> <li><input type="checkbox"/> Remove encased, locked needle from the catheter hub</li> <li><input type="checkbox"/> If unable to engage needle safety lock, withdraw needle &amp; place immediately into sharps container</li> <li><input type="checkbox"/> Remove protective cap on extension tubing, slide leur lock end into catheter hub, and release digital pressure</li> <li><input type="checkbox"/> Twist leur lock onto catheter hub to secure</li> </ul> <p><input type="checkbox"/> Immediately discard shielded needle into sharps container if possible or place in a safe place. Maintain sharps accountability, and discard into sharps container as soon as possible.</p>		
<p><b>Flush and establish IV flow:</b></p> <p><input type="checkbox"/> While continuing to hold the IV catheter administer 10 mL NS flush</p> <p><input type="checkbox"/> Observe for infiltration. If present, discontinue IV and apply direct pressure/bandage</p> <p><input type="checkbox"/> If no infiltration observed, flush until line is clear and engage extension tubing clamp</p>		
<p><b>Dressing/Stabilization:</b></p> <p><input type="checkbox"/> Clean up blood at site with a gauze/chlorhexidine pad.</p> <p><input type="checkbox"/> Apply Tegaderm/transparent dressing  Peel lining from transparent dressing exposing adhesive surface, center dressing over catheter site, apply protective film over dry skin without stretch or skin tension, and leave IV tubing connector to colored hub free. Slowly remove the frame while smoothing dressing from center to edges using firm pressure to enhance adhesion.</p> <p><input type="checkbox"/> Secure IV extension tubing with tape  Do not tape over IV connection sites. Do not conceal hub-tubing connection.</p> <p><input type="checkbox"/> Clean up and discard wrappers and disposable components after procedure completion</p>		
<p><b>Documentation:</b>  Document insertion site, # of attempts as successful or unsuccessful, catheter gauge, time started, IV fluid, flow rate and amount infused if applicable. Label IV bag.</p>		
<p><b>Drug administration and Maintenance:</b></p> <p><input type="checkbox"/> Normotensive patients do not require NS IV bag and tubing unless drug administration requires multiple ports (ex. Adenosine). Nexiva provides 2 ports without tubing and is very effective for rapid IVP</p> <p><input type="checkbox"/> To administer a drug, unclamp tubing, push drug per SOP, follow with a NS flush, and re-clamp  First 1mL of flush contains drug leftover in extension tubing. Continue proper push rate for initial 1mL of flush.</p> <p><input type="checkbox"/> If necessary, select appropriate size IV bag and type of solution, spike &amp; prime tubing</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Remove infusion set from package; uncoil tubing; close clamp, remove spike protector without contaminating spike or the needle adaptor.</li> <li><input type="checkbox"/> Turn IV bag upside down with IV &amp; medication ports facing up; remove cover from IV port, maintain sterility of port</li> <li><input type="checkbox"/> Insert tubing spike into IV port with a pushing and twisting motion until it punctures seal.</li> <li><input type="checkbox"/> Invert bag. Grasp IV set at drip chamber and squeeze. Fill chamber 1/3 to 1/2 full or to fill line.</li> <li><input type="checkbox"/> Open clamps and/or flow regulator to flush (prime) line with NS. Remove all large air bubbles from tubing. Empty IV tubing contains ~30 mL of air. This could cause a lethal air embolus if all infused into the patient.</li> <li><input type="checkbox"/> Clamp tubing shut. Recap end if removed to flush tubing.</li> <li><input type="checkbox"/> Hang IV or have someone hold bag.</li> <li><input type="checkbox"/> Wipe end of extension set with Chloraprep and attach tubing to saline lock</li> </ul> <p><input type="checkbox"/> If blood is observed in extension tubing, flush until clear and ensure clamp is engaged  Do not allow stagnant blood to sit in tubing set</p> <p><input type="checkbox"/> Communicate location, size, and type of peripheral access to ED staff during handover report</p>		

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>Competency Check:</b> <input type="checkbox"/> State 2 signs of infiltration: <input type="checkbox"/> IV does not flow <input type="checkbox"/> Local swelling <input type="checkbox"/> Site pain/burning <input type="checkbox"/> State methods to determine patency or check retrograde flow: <input type="checkbox"/> Aspirate and observe blood return with no resistance <input type="checkbox"/> Drop bag & tubing below IV site <input type="checkbox"/> State methods to troubleshoot poorly running line (see options below) <input type="checkbox"/> State 3 complications of an IV (see below)		
<b>Actual time for each attempt from start to finish:</b> <input type="text"/> <input type="text"/>		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failed to establish a patent and properly adjusted IV within 2 minute time limit <input type="checkbox"/> Failed to take appropriate body substance isolation precautions prior to performing venipuncture <input type="checkbox"/> Failed to maintain aseptic technique and contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performed any improper technique resulting in potential for uncontrolled hemorrhage, catheter shear, or air embolism <input type="checkbox"/> Failed to dispose of blood-contaminated sharps in proper container and reasonable time. <input type="checkbox"/> Exhibited unacceptable affect with patient or other personnel <input type="checkbox"/> Used or ordered a dangerous or inappropriate intervention		

**Factually document below your rationale for checking any of the above critical criteria.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 3/18

Preceptor (Print Name & Signature)

<b>If IV does not flow, consider the following causes:</b> <input type="checkbox"/> Tourniquet still on and in place <input type="checkbox"/> Patient's extremity is flexed <input type="checkbox"/> Flow clamp closed <input type="checkbox"/> Height of IV bag too low <input type="checkbox"/> Needle not patent (clot formation) <input type="checkbox"/> Tip of catheter is abutted against a valve or vein wall <input type="checkbox"/> Tubing kinked or pinched <input type="checkbox"/> Completely filled drip chamber <input type="checkbox"/> Air vent not patent	<b>Complications:</b> <input type="checkbox"/> Catheter shear and potential plastic embolism <input type="checkbox"/> Thrombophlebitis (redness and pain) <input type="checkbox"/> Extravasation (leakage of fluid/infiltration) <input type="checkbox"/> Bruising/ecchymosis at the puncture site <input type="checkbox"/> Infection, both localized and systemic <input type="checkbox"/> Volume overload
<b>Trouble-shooting a malfunctioning IV:</b> <input type="checkbox"/> Make sure the tourniquet has been removed <input type="checkbox"/> Check all flow clamps to ensure that they are open <input type="checkbox"/> Pull the catheter back between 1/8" and 1/4" <input type="checkbox"/> Aspirate extension tubing or lower the IV bag below the patient to check for blood return <input type="checkbox"/> Raise the IV bag to see if line will flow better with greater "drop" <input type="checkbox"/> Inspect the IV site for S&S of infiltration <input type="checkbox"/> Move the limb or immobilize on arm board to stabilize a positional line <input type="checkbox"/> Inspect tubing to make sure that nothing has pinched or kinked the line	

**NWC EMSS Skill Performance Record**  
**EXTERNAL JUGULAR VEIN ACCESS**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An Unconscious adult is in need of immediate fluid resuscitation. Assemble the equipment, choose the correct size catheter from those available, and initiate catheterization of the external jugular vein.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Prepare the equipment</b>		
<input type="checkbox"/> *Select appropriate IV solution (NS) and examine covering for leakage or other damage. Open outer bag at the precut slit at either end. Take care not to cut or puncture the inner IV bag.		
<input type="checkbox"/> *Verify sterility of solution (all seals in place). Check solution for leaks, cloudiness, contaminants, precipitation, and expiration date.		
Remove infusion set from packaging, uncoil the tubing, close clamp and remove spike protector		
Turn bag upright; remove plastic cover from port, maintain sterility of port		
Grasp IV set at drip chamber and squeeze		
* Insert spike until it punctures the seal at the port		
* Turn the IV bag upright		
* Fill drip chamber ½ full and purge air from tubing. May temporarily remove end cap to facilitate this procedure, but is not necessary. Remove all large air bubbles from tubing. Hang bag on IV pole.		
* Select appropriate size IV catheter (14, 16 or 18 for fluid bolus)		
* Prepare/open CHG/IPA skin prep, gauze pads, tape, skin protectant film, sharps container. Tear 3 or 4 pieces of ¼ - ½" tape about 6-8" long		
<b>Prepare the patient</b>		
* Place patient supine or in slight Trendelenburg position. Turn pt's head away from the vein.		
<b>Procedure</b>		
* Observe strict Universal precautions & aseptic technique during catheter insertion		
* Wipe selected site with CHG/IPA prep. Allow to dry for 30 sec.		
* Occlude the vein near the clavicle with digital pressure using non-dominant hand to promote venous distention		
* Remove IV catheter from packaging. Rotate catheter hub 360° while holding flashback chamber to loosen catheter from needle.		
Remove protective cap from needle keeping catheter sterile		
Inspect needle tip for any defects		
*Hold catheter between thumb and index finger of dominant hand (like a pool cue). Bevel up; align needle parallel with vein with point aimed toward pt's torso.		
* Penetrate skin at a 35°-45° angle, enter vein at 10°-15° angle half way between angle of the jaw & clavicle. Point catheter toward medial 1/3 of the clavicle.		
* Observe for blood return in flashback chamber. Advance needle 1/8 <sup>th</sup> inch.		
* Advance catheter to the hub. <b>Do not let air enter the catheter once it is in the vein.</b>		
<b>Needle retraction:</b>		
<input type="checkbox"/> Put gauze pad under hub of catheter; stabilize colored hub with a fingertip without contaminating needle insertion site		
<input type="checkbox"/> Withdraw needle		
<input type="checkbox"/> <b>Protectiv™ IV catheter</b> (Criticon)		
<input type="checkbox"/> Glide the protective guard over the needle		
<input type="checkbox"/> Listen for the "click" that confirms needle is safely locked in place		
<input type="checkbox"/> Remove encased, locked needle from the catheter hub		
<input type="checkbox"/> <b>Insyte Saf-T-Cath</b> (Becton Dickinson)		
<input type="checkbox"/> Do not fully retract needle until catheter is fully inserted into vein.		
<input type="checkbox"/> Avoid premature activation of retraction button.		

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique, no prompting necessary		
<p>Push button to retract needle into clear safety shield. If activation does not occur, press button again. If activation still does not occur, withdraw needle &amp; place immediately into sharps container.</p> <p><input type="checkbox"/> Discard shielded needle unit immediately into sharps container</p>			
* Remove protective cap on IV tubing and slide end of tubing onto the hub of the IV catheter. Use of J loop preferred between IV catheter and IV tubing.			
* While continuing to hold the IV catheter, open clamp on IV tubing to establish patency, adjust IV flow rate.			
<p><b>Dressing/Stabilization:</b></p> <p><input type="checkbox"/> Clean up blood at site with a gauze pad.</p> <p><input type="checkbox"/> Peel lining from transparent dressing exposing adhesive surface; center dressing over catheter site; apply protective film over dry skin without stretch or skin tension, leave IV tubing connector to colored hub free. Slowly remove the frame while smoothing dressing from center to edges using firm pressure to enhance adhesion.</p> <p><input type="checkbox"/> Secure IV tubing with adhesive strips or commercial dressing as needed. Do not tape over IV connection sites. Do not conceal hub-tubing connection.</p>			
* Document IV fluid, insertion site, # of attempts as successful or unsuccessful, catheter gauge, time started, flow rate and amount infused. Label IV bag.			
<p>* State method to determine patency: check retrograde flow</p> <p>* State method to troubleshoot poorly running line (see options below)</p>			
<p><b>Critical Criteria - Check if occurred during an attempt</b></p> <p><input type="checkbox"/> Failure to establish a patent and properly adjusted IV within 2 minute time limit</p> <p><input type="checkbox"/> Failure to take or verbalize appropriate BSI precautions prior to performing venipuncture</p> <p><input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation</p> <p><input type="checkbox"/> Performs any improper technique resulting in potential for uncontrolled hemorrhage, catheter shear, or air embolism</p> <p><input type="checkbox"/> Failure to dispose/verbalize disposal of blood-contaminated sharps immediately in proper container at the point of use</p> <p><input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel</p> <p><input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention</p>			

<p><b>If IV does not flow</b> - consider the following causes:</p> <p><input type="checkbox"/> Flow clamp closed</p> <p><input type="checkbox"/> Height of IV bag too low</p> <p><input type="checkbox"/> Needle not patent (clot formation)</p> <p><input type="checkbox"/> Tip of catheter is abutted against a valve or vein wall</p> <p><input type="checkbox"/> Tubing kinked or pinched</p> <p><input type="checkbox"/> Completely filled drip chamber</p> <p><input type="checkbox"/> Air vent not patent</p>	<p><b>Complications</b></p> <p><input type="checkbox"/> Catheter shear and potential plastic embolism</p> <p><input type="checkbox"/> Thrombophlebitis (redness and pain)</p> <p><input type="checkbox"/> Extravasation (leakage of fluid/infiltration)</p> <p><input type="checkbox"/> Bruising/ecchymosis at the puncture site</p> <p><input type="checkbox"/> Infection, both localized and systemic</p> <p><input type="checkbox"/> Volume overload</p>
<p><b>Trouble-shooting a malfunctioning IV</b></p> <p><input type="checkbox"/> Pull the catheter back between 1/8" and 1/4"</p> <p><input type="checkbox"/> Lower the IV bag below the patient to check for blood return</p> <p><input type="checkbox"/> Raise the IV bag to see if line will flow better with greater "drop"</p> <p><input type="checkbox"/> Inspect the IV site for S&amp;S of infiltration</p> <p><input type="checkbox"/> Check all flow clamps to ensure that they are open</p> <p><input type="checkbox"/> Inspect tubing to make sure that nothing has pinched or kinked the line</p> <p><input type="checkbox"/> Make sure the tourniquet has been removed</p>	

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Lab Skill Performance Record**  
**INTRAOSSIOUS ACCESS USING EZ IO**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

A patient presents unconscious in cardiac arrest. You are asked to assemble the equipment and achieve venous access via the IO route using an EZ-IO driver.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Verbalizes indications for IO infusions</b> <input type="checkbox"/> Unstable pt urgently needing IV fluids or critical life-saving meds, esp. if circulatory collapse; difficult, delayed, or impossible venous access; or conditions preventing venous access at other sites. May be used prior to IV attempt in cardiac arrest (medical/trauma). <input type="checkbox"/> Not intended for prophylactic use. Always consider benefit vs. risk <input type="checkbox"/> States total # of attempts per site (bone) (1) <input type="checkbox"/> Benefits of proximal humerus: Greater flow; ave. flow rate of 5 L/hour under pressure for humerus, 1 L/hour for tibia; reach the heart with medication or fluid in three seconds		
<b>*Verbalizes CONTRAINDICATIONS for IO infusions:</b> <input type="checkbox"/> Fracture of the bone selected for IO infusion <input type="checkbox"/> Infection at the site selected for insertion ( <i>use alternate sites</i> ) <input type="checkbox"/> Previous ortho procedure (joint replacement, <i>IO within 48 hrs, prosthesis – use alternate site</i> ) <input type="checkbox"/> Re-existing medical condition (tumor near site, severe peripheral vascular disease (PVD)) <input type="checkbox"/> Inability to locate landmarks (Morbid obesity, tissue edema) ( <i>consider alternate sites</i> )		
<b>Prepare patient:</b> If pt conscious, advise of emergent need for procedure		
<b>* Select appropriate IO needle set; prepare and assemble equipment</b> <input type="checkbox"/> EZ-IO driver <input type="checkbox"/> IV NS & reg drip tubing <input type="checkbox"/> Pressure infuser bag <input type="checkbox"/> (2) 10 mL syringes w/ NS to prime connect tubing & flush IO <input type="checkbox"/> Conscious pt: Lidocaine 2% (100 mg/5 mL) w/o preservative <input type="checkbox"/> Extension set or EZ Connect tubing <input type="checkbox"/> Skin prep: Chlorhexidine (CHG 2%)/(IPA 70%) <input type="checkbox"/> EZ-IO® needle sets: o Bariatric or humeral insertion : Yellow (45 mm) o 40 kg or greater: Blue (25 mm) o 3-30 kg: Pink (15 mm) consider for peds <input type="checkbox"/> EZ stabilizer <b>Flow rate:</b> Due to anatomy of IO space, flow rates slower than per IV cath. A 10mL NS rapid bolus/flush w/ syringe, improves flow rates. Attach a pressure infuser device around bag of IVF.		
<b>* BSI: Universal precautions: gloves and eye protection</b>		
<b>* Attach pressure infuser to IVF bag; prime IV tubing; inflate pressure infuser to 300 mmHg</b>		
<input type="checkbox"/> Inspect Needle Set packaging to ensure sterility <input type="checkbox"/> *Fill syringes w/ at least 10 mL of NS (if not prefilled) – attach syringe to EZ-Connect ® extension tubing; prime tubing (tubing requires 1 mL; leave at least 9 mL NS in syringe). Leave syringe attached to EZ Connect tubing.		
<b>* LOCATE INSERTION SITE:</b> Position pt and palpate site(s) to identify appropriate anatomical landmarks and needed needle size. proximal medial tibia (cardiac arrest); proximal humerus		
<b>* Cleanse site using aseptic technique and CHG/IPA prep; allow to air dry 30 sec.</b>		
<b>* Prepare EZ-IO driver and needle set: Open cap of needle, attach to driver, and momentarily power drill. Remove safety cap from needle – do not touch needle</b>		
<b>* Stabilize extremity with non-dominant hand;</b>		
<input type="checkbox"/> *With other hand, hold driver w/ needle connected. Rest needle on skin/bone directly over insertion site at a 90° angle to the bone surface. Activate driver by depressing trigger on handgrip and gently pierce skin with needle until tip touches bone. <input type="checkbox"/> Check that at least one black line on the needle is visible after piercing skin and touching bone surface. If no black line is visible, pt may have excessive soft tissue over selected site and needle may not reach the medullary space. Consider alternative site for insertion or a longer needle.		

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/>	*Activate driver and penetrate the bone cortex – <b>ALLOW DRIVER AND NEEDLE to DO WORK</b> ; maintain gentle steady, consistent, pressure on driver.		
<input type="checkbox"/>	<b>If driver seems to fail, lighten pressure on driver.</b>		
<input type="checkbox"/>	If pt <40 kg: do NOT push – gently guide to avoid penetrating through posterior bone		
<input type="checkbox"/>	<b>If driver fails: Insert manually using gentle twisting motion</b>		
	Once decreased resistance is felt or needle flange touches skin (whichever is first) release trigger and stop insertion process		
	* While stabilizing catheter hub w/ hand, remove driver from needle set		
	* Remove stylet from catheter by rotating counterclockwise (while stabilizing hub with hand). Place directly in sharps container. NEVER return used stylet to the EZ-IO kit.		
	*Connect NS primed EZ Connect tubing to exposed Luer-lock catheter hub and attempt to aspirate bone marrow (w/ syringe attached to primed connecting tubing). Prevent needle movement – do not attach syringe directly to IO catheter. If successful, do not remove more than 1 mL.		
	<b>Conscious pts (before NS flush):</b> Remove NS syringe on connecting tubing and replace w/ lidocaine syringe. Give <b>LIDOCAINE 2% 1 mg/kg (max 50 mg)(2.5 mL) slow IO BEFORE NS FLUSH</b> , unless contraindicated. Medications intended to remain in medullary space, such as a local anesthetic, must be given very slowly until the desired anesthetic effect is achieved.		
<input type="checkbox"/>	* <b>ALL pts:</b> Using syringe, flush w/ at least 10 mL of NS. Observe for swelling around site.		
<input type="checkbox"/>	Confirm placement: Needle firm in bone and able to infuse w/o extravasation (Do NOT rock needle in bone)		
<input type="checkbox"/>	Inability to aspirate blood is NOT a reliable indicator of non-placement		
<input type="checkbox"/>	If placement in doubt: leave needle in place w/ connecting tubing & syringe attached (for ED to evaluate placement) & attempt IO on alternate site, or IV		
<input type="checkbox"/>	*Attach IV tubing to EZ connect tubing, and begin infusion. Frequently reassess pressure (300 mmHg) in infuser device. Re-inflate as IVF is administered.		
<input type="checkbox"/>	*Calculate appropriate fluid challenge volume if indicated.		
<input type="checkbox"/>	Secure site with EZ Stabilizer if available		
<input type="checkbox"/>	Secure tubing to extremity with tape.		
	Apply wristband to pt w date & time (reminds hospital to remove w/in 24 hrs).		
	* Monitor IO site and pt condition. Verbalizes at least 1 complication of IO access.		
	<b>Critical Criteria - Check if occurred during an attempt</b>		
<input type="checkbox"/>	Failure to take or verbalize appropriate BSI precautions prior to performing IO puncture		
<input type="checkbox"/>	Failure to identify the correct insertion site and/or correct size needle		
<input type="checkbox"/>	Failure to stabilize the limb/site		
<input type="checkbox"/>	Failure to insert needle through skin and to rest on bone prior to inserting into the bone		
<input type="checkbox"/>	Pushing down too hard on the driver and slowing needle insertion		
<input type="checkbox"/>	Twisting driver when removing from needle hub		
<input type="checkbox"/>	Failure to give lidocaine into IO line prior to fluid infusion if responsive		
<input type="checkbox"/>	Rocking needle in bone to confirm placement		
<input type="checkbox"/>	Contaminates equipment or site without appropriately correcting the situation		
<input type="checkbox"/>	Failure to assure correct needle placement or detect early signs of infiltration]		
<input type="checkbox"/>	Failure to successfully establish IO infusion within 2 attempts during 6 minute time limit		
<input type="checkbox"/>	Failure to properly dispose/verbalize disposal of blood-contaminated sharps immediately in proper container at the point of use		
<input type="checkbox"/>	Uses or orders a dangerous or inappropriate intervention		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

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<p><b><u>EZ-IO 25mm:</u></b> (commonly for 40 kg and over)</p>	<ul style="list-style-type: none"> <li>• Proximal Tibia – Insertion site is ~2 cm below patella &amp; ~2 cm (depending on anatomy) medial to tibial tuberosity.</li> <li>• Proximal Humerus – Insertion site is located directly on the most prominent aspect of the greater tubercle. Slide thumb up the anterior shaft of the humerus until you feel the greater tubercle, this is the surgical neck. Approximately 1 cm (depending on pt anatomy) above the surgical neck is the insertion site. Ensure patient's hand is resting on the abdomen and that the elbow is adducted (close to the body).</li> </ul>
<p><b><u>EZ-IO 45mm:</u></b></p>	<p>Recommended for proximal humerus, pts with excessive tissue over insertion site or when a black line not visible after penetration into the tissue)</p> <ul style="list-style-type: none"> <li>• <b>Proximal Tibia</b> – See above.</li> <li>• <b>Proximal Humerus</b> –See above.</li> </ul>
<p><b><u>EZ-IO 15mm:</u></b> (commonly for 3-39 kg)</p>	<p><b>Consider tissue density over the landmark desired)</b></p> <ul style="list-style-type: none"> <li>• <b>Proximal Tibia</b> - If NO tuberosity is present, insertion is located ~4 cm below patella and then medial along the flat aspect of the tibia. If the tuberosity IS present, the insertion site is ~2cm medial to the tibial tuberosity along the flat aspect of the tibia. Carefully feel for the “give” or “pop” indicating penetration into the medullary space.</li> <li>• <b>Proximal Humerus</b> – <b>See above; plus</b> <i>The proximal humerus may be difficult or impossible to palpate in children &lt; 5 years of age as the greater tubercle has not yet developed. In these cases the insertion will most likely be a shaft insertion.</i></li> </ul>



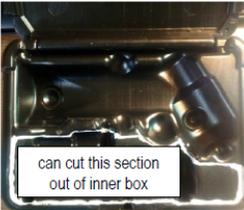
# CLINICAL PRACTICE ALERT

**If driver failure, insert the EZ-IO needle manually, using a twisting motion.** (EZIO procedure step #10.e)  
Note: not difficult; much easier than using old jamshidi needles.



If driver failure - insert manually using a twisting motion

Driver generations-1 & 2 should be stored in EZIO case - to protect trigger from accidental depression, when not in use. Some have used a dremel-type tool to cut out needle depressions to allow new packaging to fit into the case. (Generation-3 have a trigger guard, so protective case is not required.)

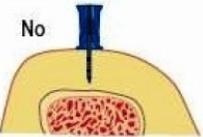


- NWC EMSS has been using EZIO since 2005; if you still have the original drivers it may be time to replace them.
- Generation-3 drivers have a LED that flashes red to indicate low battery (10% power remaining).
- Generation-3 drivers are smaller and deliver approx. 500 insertions (vs. 750-1000 for Gen-2 drivers).

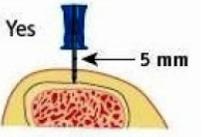


During insertion, prior to activating trigger, insert needle through skin/fat/muscle and rest tip needle on bone; at least the 5 mm mark on needle should be visible. This tells you needle long enough. If no markings are visible, remove the needle and use a longer needle or alternate site.

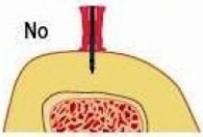
No



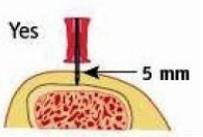
Yes



No



Yes



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**NWC EMSS Skill Performance Record**  
**DRAWING UP MEDICATIONS FROM A VIAL**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is in need of a medication that comes packaged in a glass vial. You are asked to give 1 mL of the drug. Assemble the equipment and draw up the appropriate dose from the vial.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
* Apply appropriate PPE		
<b>Prepare the equipment/medication</b> <input type="checkbox"/> Medication vial <input type="checkbox"/> CHG/IPA prep <input type="checkbox"/> Sharps container <input type="checkbox"/> Luer lock syringe <input type="checkbox"/> Vent/needle		
* Inspect the medication packaging to confirm the drug name, integrity of the medication packaging; concentration, dose, and expiration date.		
* Open package and verify sterility of medication (all seals in place)		
* Inspect solution for clumping, frosting, precipitation, and change in clarity or color		
* Calculate appropriate amount of medication for administration		
* Select appropriate syringe for volume of fluid to be withdrawn		
* Remove plastic covering from the top of the vial without contaminating diaphragm. Use aseptic technique when exposing medication to the environment.		
<b>Medication removal</b> Fill syringe with air in an amount = to the mLs that will be removed. (Some sources omit this step). Connect needle/vent to syringe.		
With vial upright, insert needle/vent into vial, but not into the liquid. Inject air into the vial. Note: If removing medication from a multi-dose vial and this is not the first dose being removed, cleanse vial stopper prior to inserting needle or vent.		
* Withdraw appropriate volume/dose of medication into the syringe. (May invert vial) Remove syringe from vial.		
Hold syringe up and tap barrel to move air bubble to the top. Eject air through needle or vent.		
*Cross check: Reconfirm medication and appropriate dose prepared with another qualified practitioner		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Failure to dispose/verbalize disposal of sharps immediately in proper container at the point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

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- Competent:** Satisfactory performance without critical error; minimal coaching needed.
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**NWC EMSS Skill Performance Record**  
**Mark I, DuoDote and/or Epi pen Autoinjector**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
* Apply appropriate PPE		
<b>Prepare/assess patient</b> Begin IMC/ITC		
<input type="checkbox"/> *Confirm the need for Autoinjector use <input type="checkbox"/> Confirm the absence of allergy or contraindications to the drug		
Explain drug actions, side effects, and procedure to patient.		
<b>Prepare equipment</b> <input type="checkbox"/> Medication <input type="checkbox"/> Sharps container		
<input type="checkbox"/> *Select the appropriate medication, dose, and/or number of auto-injectors for the age/size of the patient and severity of distress <input type="checkbox"/> Inspect the auto-injector(s) to confirm the name of the drug, integrity of the container; concentration, clarity & color of the medication, and expiration date		
<b>ADMINISTRATION</b>		
If time allows, prep skin. If urgent proceed w/o skin prep.		
Remove safety cap from injector(s)		
Place tip of auto injector against pt's thigh (Lateral portion, midway between waist and knee)		
Push injector firmly against thigh until it activates		
Hold injector in place until medication is injected		
Discard injector directly into a sharps container		
Record medication name, dose (including concentration), route and time given		
Assess response: Reassess VS, breath sounds, resp. distress, drooling, etc.		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Failure to dispose/verbalize disposal of sharps immediately in proper container at the point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

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**NWC EMSS Skill Performance Record**  
**METERED DOSE INHALER (MDI)**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is in need of Proventil given via MDI. You are asked to assemble the equipment, choose the correct medication from those available, and administer the appropriate dose using the MDI technique.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare/assess patient</b> Initiate Initial Medical Care. (IV not necessary if mild distress)		
*Confirm need for Proventil (hx asthma, c/o SOB w/ wheezing; RA SpO <sub>2</sub> <95%, peak flow in yellow zone)		
Confirm absence of allergy or contraindications to the drug		
Explain procedure to pt: parts of MDI and how to coordinate breathing through mouth with inhaling medication		
Explain that they may feel a little jittery and pulse may increase		
<b>Prepare equipment</b> *Inspect MDI to confirm the name of the drug, integrity of the container; concentration of the medication, and expiration date		
Shake inhaler well		
Remove cap from mouthpiece. Check mouthpiece for FB; remove if present.		
Ensure that canister is fully and firmly inserted into plastic mouthpiece		
If using inhaler for the first time, or they have not used it for more than 7 days, "test spray" it 2 times into the air; avoid spraying into the eyes		
Apply a spacer, if available		
<b>Administer medication</b> Have patient exhale steadily and as comfortably as they can through their mouth		
Hold inhaler upright 1 – 2 inches in front of patient's mouth. If using a spacer, insert MDI into the open space and place mouthpiece in pt's mouth, instruct them to seal their lips tightly over mouthpiece.		
Have patient breathe in slowly through their mouth, and then press down on inhaler once.		
Have pt hold their breath for 10 sec to allow the medicine to reach deeply into the lungs		
Remove inhaler and instruct them to exhale slowly		
If order is for two puffs, wait 1-2 min & shake inhaler again before giving the 2 <sup>nd</sup> puff		
Have patient rinse out mouth so no drug remains (Especially inhaled steroids)		
Record medication name, dose, route and time given		
Assess response to medication: Reassess VS, breath sounds, degree of distress		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**GIVING AEROSOL MEDICATIONS by HHN**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult with a history of asthma is short of breath with wheezing. You are asked to assemble the equipment, choose the correct medications from those available, and give the correct dose using a HHN.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare/assess patient</b> Initiate Initial Medical Care. (IV not necessary if mild distress)		
<input type="checkbox"/> *Confirm need for drug(s): Hx asthma/COPD, diffuse wheezing <input type="checkbox"/> Confirm absence of allergy or contraindications to drug(s)		
Explain procedure to pt. Explain parts of the HHN; stress that they need to breathe through their mouth to inhale the nebulized medication.		
Explain that they may feel a little jittery and pulse may increase		
<b>Prepare/assemble equipment</b> <input type="checkbox"/> Medications <input type="checkbox"/> HHN unit <input type="checkbox"/> O <sub>2</sub> source & tubing <input type="checkbox"/> Nasal cannula		
* Inspect packaging to confirm the drug name, integrity of packaging; color, clarity, concentration, dose, & expiration date *Cross check: Reconfirm medication and appropriate dose prepared with another qualified practitioner		
*Unscrew nebulizer lid to expose medication cup		
*Open medication by twisting off the top. Hold medication cup upright Without contaminating medication, pour desired dose into cup and attach nebulizer lid		
* Attach mouthpiece and O <sub>2</sub> reservoir tubing T piece to top of medication cup		
*Connect O <sub>2</sub> tubing to bottom of medication cup		
*Attach other end of the O <sub>2</sub> tubing to O <sub>2</sub> source and adjust O <sub>2</sub> flow to 6 L		
Watch for mist to come out of the nebulizer mouthpiece		
<b>Administer medication (Universal precautions)</b> *Instruct pt to hold mouthpiece firmly in their mouth; breathe deeply as they can through their mouth to inhale mist		
Attach supplemental O <sub>2</sub> via NC at 6 L if pt is hypoxic (need 2 <sup>nd</sup> O <sub>2</sub> source)		
Record medication name(s), dose(s), route and time given		
*Begin transport without waiting for a response (verbalizes)		
*Monitor pt throughout treatment; reassess breath sounds, SpO <sub>2</sub> , EtCO <sub>2</sub> ; & VS		
<b>Alternative technique mask using NRM or CPAP mask</b> *Remove bag from mask and attach medication cup to mask. Adjust O <sub>2</sub> flow at 6 L.		
<b>Alternative technique: In-line via BVM:</b> *Insert adaptors to connect medication cup in a T piece to the adaptor of a BVM and administer medication with ventilatory assist.		
<b>If successful &amp; wheezing resolves:</b> Continue assessment and give O <sub>2</sub> as needed.		
<b>*If unsuccessful and wheezing persists:</b> Repeat procedure while enroute		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**MUCOSAL ATOMIZER DEVICE (MAD)**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare the patient</b> Initiate Initial Medical Care. (IV not necessary if mild distress)		
<b>*Confirm need for drug</b>		
Confirm absence of allergy or contraindication to the drug if able.		
Explain drug actions, common side effects, and procedure to the patient (if conscious).		
<b>*Inspect nostrils for problems that might inhibit absorption</b> <input type="checkbox"/> Trauma to nasal mucosa <input type="checkbox"/> Epistaxis <input type="checkbox"/> Damaged mucosa (chronic cocaine use) <input type="checkbox"/> Severe hypotension or vasoconstriction <input type="checkbox"/> If nasal secretions: suction or use alternate route		
<b>Prepare equipment/medication</b> <b>* Select the appropriate medication</b> <input type="checkbox"/> naloxone 1 mg/1mL <input type="checkbox"/> glucagon 1 mg/1 mL <input type="checkbox"/> fentanyl 100 mcg/2 mL <input type="checkbox"/> midazolam 10 mg/2 mL <input type="checkbox"/> ketamine 50 mg/1mL (2) <input type="checkbox"/> MAD device <input type="checkbox"/> Syringe		
<b>* Inspect medication packaging to confirm drug name, integrity of the medication packaging; concentration, dose, and expiration date. Inspect solution for clumping, frosting, precipitation, or change in clarity or color.</b>		
<b>* Calculate appropriate amount (dose/volume) of medication to administer</b>		
Draw up appropriate dose using aseptic technique; expel air from syringe <b>Ideal IN volume for MAD = 0.25 - 0.3 mL; Use 1 mL leur-lock syringe</b> If total volume > 0.4 mL: Divide total amt. between 2 syringes; give ½ dose each nostril (limit 1 mL per nostril) Remove needle and firmly attach MAD to syringe		
<b>*Cross check: Reconfirm medication and appropriate dose prepared with another qualified practitioner</b>		
<b>Procedure (Universal precautions)</b> <input type="checkbox"/> <b>*Place tip of MAD 1.5 cm within the nostril; seat firmly to avoid leaks</b> <input type="checkbox"/> <b>*Aim medial/inward (toward septum) &amp; superior/upward; Do NOT tell pt to inhale (pulls med into posterior pharynx)</b> <input type="checkbox"/> <b>*Push syringe plunger briskly (important to atomize)</b> (The nose may leak fluid so have a gauze pad or towel ready to catch secretions)		
Assess patient response to medication IN absorption not as fast as IV: may take 3-5 min for onset, 10-15 for peak effect If no effect from 1 <sup>st</sup> IN dose, consider alternate route		
<b>* Record medication name, concentration, dose, route, time administered; pt response</b>		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice



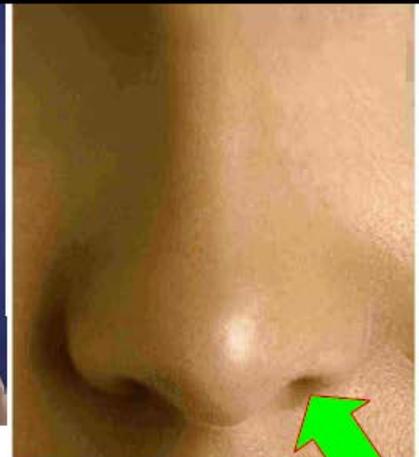
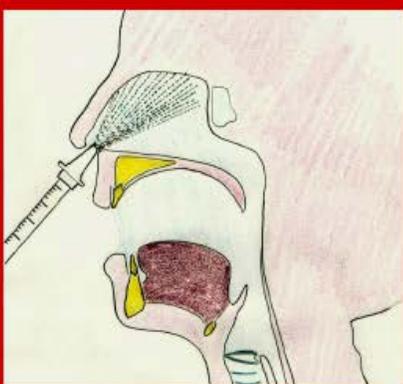
# CLINICAL PRACTICE ALERT



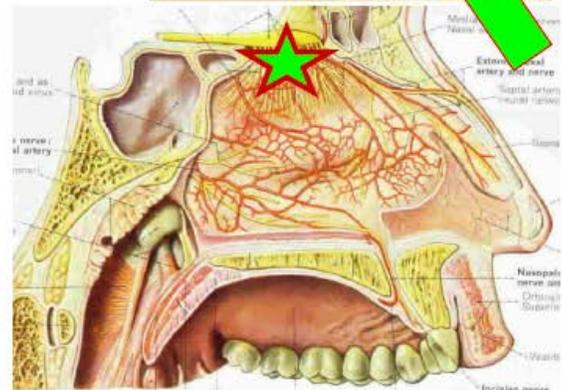
## MAD – IN Administration

- Fentanyl
- Glucagon
- Naloxone
- Midazolam  
(10mg/2mL concentration only)

- If nasal secretions: suction or use alternate route
- **Ideal IN volume for MAD = 0.25 - 0.3 mL**
- If total volume  $\geq 0.4$  mL: Divide amt between 2 syringes and give  $\frac{1}{2}$  dose each nostril (to increase surface area)
- **Use smallest syringe (1 mL leur-lock ideal)**
- Aim **medial/inward** (toward septum) & **superior/upward**
- **Do NOT tell pt to inhale** (pulls med into posterior pharynx)
- Push syringe plunger briskly (important to atomize)
- IN absorption not as fast as IV:  
may take 3-5 min for onset, 10-15 for peak effect
- If no effect from 1<sup>st</sup> IN dose, consider alternate route



DIANA:mad-cpa-3-11



## NWC EMSS Skill Performance Record IV PUSH (IVP) MEDICATIONS

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is in need of a medication to be administered IV Push. You will be given the drug and dose to administer. You are asked to assemble the equipment, and give the appropriate dose using the IV Push technique.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare the patient</b> <input type="checkbox"/> * Confirm need for drug <input type="checkbox"/> * Confirm absence of allergy or contraindication to the drug if possible		
* Explain drug actions, common side effects, and procedure to pt (if conscious)		
* Verify patent vascular access		
<b>Prepare the equipment/medication</b> <input type="checkbox"/> Select the appropriate medication <input type="checkbox"/> Inspect packaging to confirm drug name, integrity of packaging; concentration, dose, and expiration date. <input type="checkbox"/> Open package and verify sterility of medication (all seals in place) <input type="checkbox"/> Inspect solution for clumping, frosting, precipitation, and change in clarity or color <input type="checkbox"/> Calculate appropriate amount of medication for administration <input type="checkbox"/> Prepare medication draw up into a syringe or engage preload cartridge with barrel of syringe) <input type="checkbox"/> Observe syringe for air bubbles, point syringe upward, and expel bubbles <input type="checkbox"/> * <b>Cross check:</b> Reconfirm medication and dose prepared with another PM		
<b>Procedure</b> <input type="checkbox"/> * Observe strict Universal precautions & aseptic technique during drug delivery <input type="checkbox"/> * Cleanse IV tubing injection port closest to IV catheter with CHG/IPA prep <input type="checkbox"/> Attach syringe to needless port <input type="checkbox"/> Close flow clamp or pinch tubing proximal to insertion port <input type="checkbox"/> Inject appropriate dose of drug at the prescribed rate <input type="checkbox"/> Open flow clamp and flush tubing with NS and readjust IV flow rate <input type="checkbox"/> * If a one-time dose: detach syringe; discard appropriately		
* Assess patient for response to medication; repeat VS		
* Document drug name, concentration, dose, route, time given, PM & pt response		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to establish a patent and properly adjusted IV within 2 minute time limit <input type="checkbox"/> Failure to take or verbalize appropriate BSI precautions prior to performing venipuncture <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in potential for uncontrolled hemorrhage, catheter shear, or air embolism <input type="checkbox"/> Failure to verbalize disposal of blood-contaminated sharps immediately in proper container at point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**IV PIGGY-BACK (IVPB) MEDICATIONS**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is in need of a vasopressor. You are asked to assemble the equipment, choose the correct medication from those available, and administer the appropriate dose using the IVPB technique.

Performance standard	Attempt 1 rating	Attempt 2 rating
2 Step omitted (or leave blank) 3 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare the patient</b> <input type="checkbox"/> * Confirm need for the drug <input type="checkbox"/> * Confirm absence of allergy or contraindication to the drug if possible		
* Explain drug actions, common side effects, and procedure to the patient		
* Confirm patent vascular access		
<b>Prepare the equipment/medication</b> <input type="checkbox"/> *Observe strict Universal precautions & aseptic technique during drug prep & delivery <input type="checkbox"/> Select the appropriate medication and IV solution. <input type="checkbox"/> *Cross check: Reconfirm medication with another PM <input type="checkbox"/> *Inspect medication packaging; confirm drug name, integrity; concentration, dose, & expiration date. <input type="checkbox"/> *Open IV outer bag and verify sterility of medication (all seals in place) <input type="checkbox"/> * Inspect solution for clumping, frosting, precipitation, change in clarity or color if poss.		
<b>Prepare medication for administration</b> *Add norepinephrine 4 mg/4 mL to 1,000 mL D5W or NS. Label bag. * Insert appropriate IV tubing into port of the IV bag containing the medication. Fill drip chamber ½ full.		
<input type="checkbox"/> Flush tubing with medication fluid without wasting fluid. Observe tubing for air bubbles, expel <input type="checkbox"/> Attach an adaptor for a needless port <input type="checkbox"/> Close the flow clamp of the primary IV tubing above the medication injection port <input type="checkbox"/> * Set the drip rate of the IVPB to deliver the desired dose of medication		
Document drug name, concentration, dose, route and time given		
* Assess patient response to medication; repeat VS		
* Document drug name, concentration, dose, route, time given, PM who initiated IVPB & pt response		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to establish a patent and properly adjusted IV within 2 minute time limit <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions prior to performing venipuncture <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in potential for uncontrolled hemorrhage, catheter shear, or air embolism <input type="checkbox"/> Failure to dispose/verbalize disposal of blood-contaminated sharps immediately in proper container at the point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

## NWC EMSS Skill Performance Record ORAL MEDICATION (PO) ADMINISTRATION

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** A patient is complaining of chest pain that started 15 minutes ago. You are asked to choose the correct medication, and to administer the appropriate dose of ASA using the PO technique.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare the patient</b> <input type="checkbox"/> * Confirm need for the drug <input type="checkbox"/> * Confirm absence of allergy or contraindication to the drug <input type="checkbox"/> If possible place patient in an upright or sitting position		
* Explain drug actions, common side effects, and procedure to the patient		
<b>Prepare the equipment/medication</b> * Select the appropriate medication		
* Inspect the container or packaging to confirm the name of the drug, integrity of the medication packaging/container; color and concentration of the medication, dose of the tablet, and expiration date.		
* Determine the amount of aspirin to be administered 4 (81mg) tablets		
* Put on gloves		
<b>Drug administration</b> If a multiple dose container; shake 4 tablets into the lid of the container; do not touch multiple tablets. If single dose packaging; open and prepare to administer.		
*Cross check: Reconfirm medication and dose prepared with another qualified practitioner		
* Pour the tablets from the container lid into the patient's hand. Watch the patient place all of the tablets into their mouth. If patient needs assistance; place all 4 tablets into the patient's mouth.		
* Instruct the patient to chew and swallow the tablets		
* Paramedic may give a small amount of water to help wash down the medication. Confirm that the patient has swallowed all the medication.		
* Monitor patient's response to the medication (repeat vital signs)		
* Document drug, concentration, dose, route and time given, PM and pt response		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**SUBLINGUAL (SL) MEDICATION ADMINISTRATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is in need of a medication to be administered sublingually. You are asked to choose the correct medication and to administer the appropriate dose using the SL technique.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>* Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare the patient</b> <input type="checkbox"/> *Confirm need for the drug (Hx, PE, 12-lead ECG) <input type="checkbox"/> *Confirm absence of allergy or contraindications to the drug		
Explain drug actions, common side effects, and procedure to the patient		
<b>Prepare the equipment/medication</b> * Select the appropriate medication		
* Inspect the container to confirm name of the drug, integrity of the packaging/container; color and concentration of the medication, dose of the tablet, and expiration date.		
* Determine appropriate amount of medication for administration		
<b>Drug administration (Universal precautions)</b> * With gloved hand, take one tablet from container or pour one tablet into lid of the container.		
*Cross check: Reconfirm medication and dose prepared with another PM		
* Temporarily remove O <sub>2</sub> mask if applicable. Instruct pt to open mouth and lift tongue. Place tablet under the pt's tongue. Instruct pt to close their mouth and allow the tablet to dissolve.		
Advise patient not to swallow or chew the medication. If the patient's mouth is dry, may place a few drops of NS or water under the tongue.		
* Monitor pt's response to the medication (repeat VS; reassess pain, degree of distress)		
* Document drug, concentration, dose, route and time administered, PM and pt responses		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Failure to dispose/verbalize disposal of sharps immediately in proper container at the point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**SUBCUTANEOUS (Sub-Q) INJECTIONS**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is in need of epinephrine 1mg/1mL 0.3 mg sub-q. Assemble the equipment, choose the correct medication from those available, and administer the appropriate dose using the sub-q technique.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare the patient</b> <input type="checkbox"/> * Confirm need for the drug <input type="checkbox"/> * Confirm absence of allergy or contraindication to the drug Explain drug actions, common side effects, and procedure to the patient		
<b>Prepare equipment/medication</b> <input type="checkbox"/> Syringe 1 mL w 5/8" needle <input type="checkbox"/> CHG/IPA prep <input type="checkbox"/> Filtered needle <input type="checkbox"/> Epinephrine 1 mg/1 mL <input type="checkbox"/> Sharps container <input type="checkbox"/> Adhesive strip <input type="checkbox"/> Gauze pad		
<input type="checkbox"/> Select the appropriate medication <input type="checkbox"/> Inspect packaging to confirm drug name, integrity of packaging; concentration, dose, & expiration date. <input type="checkbox"/> Open package and verify sterility of medication (all seals in place) <input type="checkbox"/> Inspect solution for clumping, frosting, precipitation, and change in clarity or color <input type="checkbox"/> Calculate appropriate dose and draw up into syringe <input type="checkbox"/> *Prepare medication: Draw into syringe from an ampule using filtered needle/straw) <input type="checkbox"/> Observe syringe for air bubbles, point syringe upward, expel bubbles; Change to 5/8" needle. <input type="checkbox"/> <b>Cross check:</b> Reconfirm medication and dose prepared with another qualified practitioner		
<b>Drug administration (Universal precautions)</b> <input type="checkbox"/> Select appropriate injection site on lateral middle third of patient's upper arm <input type="checkbox"/> Cleanse selected site with CHG/IPA prep <input type="checkbox"/> Pinch flesh in selected area with index finger and thumb to create a skin surface at least 2" in which to deposit medication. Do not touch the cleansed site. <input type="checkbox"/> With dominant hand, grasp syringe between thumb and index finger (like a pool cue) and quickly insert needle bevel up at a 45° angle to the skin surface so needle tip remains in the sub-q space. <input type="checkbox"/> *Slowly depress plunger to inject medication		
<input type="checkbox"/> Withdraw needle, place gauze pad over injection site, apply gentle pressure <input type="checkbox"/> * Dispose of used needle, syringe, and ampule directly into a sharps container		
<input type="checkbox"/> Apply adhesive strip over injection site if oozing or bleeding <input type="checkbox"/> Assess patient for response to medication <input type="checkbox"/> * Document drug, concentration, dose, route, time given, & patient response		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Failure to dispose/verbalize disposal of sharps immediately in proper container at the point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**INTRAMUSCULAR (IM) INJECTIONS**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is in need of epinephrine (1mg/1mL) 0.3 mg IM for an allergic reaction. You are asked to assemble the equipment, choose the correct medication from those available, and to administer the appropriate dose using the IM technique.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare patient</b> <input type="checkbox"/> *Confirm need for the drug <input type="checkbox"/> * Confirm absence of allergy or contraindication to the drug <input type="checkbox"/> Explain the drug action, possible side effects, and procedure to the patient		
<b>Prepare equipment/medication</b> <input type="checkbox"/> Syringe 1-3 mL w 21-22 g; 1½ - 2½” needle <input type="checkbox"/> CHG/IPA prep <input type="checkbox"/> Medication <input type="checkbox"/> Sharps container <input type="checkbox"/> Adhesive strip <input type="checkbox"/> Gauze pad		
<input type="checkbox"/> *Select the appropriate medication <input type="checkbox"/> Inspect packaging to confirm drug name, integrity of packaging; concentration, dose, & expiration date. <input type="checkbox"/> Open package and verify sterility of medication (all seals in place) <input type="checkbox"/> Inspect solution for clumping, frosting, precipitation, and change in clarity or color <input type="checkbox"/> Calculate appropriate dose and draw up into syringe from a vial. Give up to 3 mL of drug per inj. <input type="checkbox"/> Observe syringe for air bubbles, point syringe upward, and expel bubbles <input type="checkbox"/> <b>Cross check:</b> Reconfirm medication and dose prepared with another qualified practitioner		
<b>Drug administration (Universal precautions)</b> *Preferred site: Vastus Lateralus muscle (adults and children). Alternate site: deltoid muscle two finger breadths below acromion process if other site inaccessible.		
<input type="checkbox"/> *Cleanse selected site with CHG/IPA prep; allow to dry for 30 seconds <input type="checkbox"/> *Gently stretch skin overlying muscle; do not touch cleansed area <input type="checkbox"/> *With dominant hand, grasp syringe like a dart and quickly insert needle bevel up at a 90° angle to the skin surface until it is firmly seated in muscle <input type="checkbox"/> Release skin, hold syringe and needle in place, and gently pull back on plunger to check for blood return		
<input type="checkbox"/> *If no blood return: depress plunger and inject medication slowly <input type="checkbox"/> *If blood return: withdraw syringe/needle, apply pressure to site, discard syringe in a sharps container, begin again		
<input type="checkbox"/> *Withdraw needle, place gauze pad over injection site, and apply gentle pressure <input type="checkbox"/> *Dispose of used needle and syringe directly into a sharps container		
<input type="checkbox"/> Apply adhesive strip over injection site if oozing or bleeding <input type="checkbox"/> Assess patient for response to medication <input type="checkbox"/> *Document drug, concentration, dose, route, time given, & patient response		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Failure to dispose/verbalize disposal of sharps immediately in proper container at the point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**INTRARECTAL DIAZAPAM using Diastat® syringe**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** A child weighing 30 lbs presents with generalized seizure activity. The parents have Diastat available and are asking your assistance in providing diazepam via this route. You are asked to prepare and give diazepam using the Diastat syringe via the IR route.

**Note:** This is not the EMS System's preferred route for providing a benzodiazepine to abort tonic clonic seizure activity. In the absence of vascular access, midazolam IM is the preferred medication and route for PMs.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>*Verbalize the 6 rights of medication administration: RIGHT</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Prepare the patient</b> <input type="checkbox"/> *Confirm need for the drug <input type="checkbox"/> * Confirm absence of allergy or contraindication to the drug <input type="checkbox"/> Explain the drug action, possible side effects, and procedure to the patient/caregiver		
<b>Prepare equipment/medication</b> Diastat syringe (traditional) 2.5 mg or Diastat AcuDial system. When Diastat AcuDial is prescribed, pharmacist "dials in" the correct amount of diazepam to deliver into a pre-filled delivery system and locks it into place. The locking mechanism ensures that the correct dose is given. Drug comes in a Twin Pack that contains 2 pre-filled delivery system with the patient's dose locked in, 2 packets of lubricating jelly, administration and disposal instructions.		
* Select appropriate medication: Inspect packaging to confirm drug name, integrity of packaging; concentration, dose, and expiration date.		
* Open package and verify sterility of medication (seal pin is attached to cap)		
*Cross check: Reconfirm medication with another PM		
Push up with thumb and pull to remove cap from syringe. Remove seal pin with the cap; lubricate tip of syringe. Ensure green ready band is visible on Diastat AcuDial		
<b>Drug administration (Universal precautions)</b> Position pt on side with upper leg/hip flexed, to allow better visualization of anus		
*Insert syringe tip into the rectum; syringe rim should be snug against rectal opening; slowly inject medication; count to three before removing syringe. Hold buttocks together for another count of 3 to minimize leakage of medication		
<b>*Reassess patient</b> <input type="checkbox"/> Seizure activity should stop within one to three minutes <input type="checkbox"/> Observe for signs of resp. depression (↓ rate/depth) and hypoxia. Assist ventilations prn. Slower absorption of IR Vallium may make resp. depression and hypotension less likely to occur. <input type="checkbox"/> Document drug, concentration, dose, route and time administered, & PM		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Failure to dispose/verbalize disposal of sharps immediately in proper container at the point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**CAPILLARY GLUCOSE TESTING using MICRODOT Xtra® Meter**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is tremulous, light headed, tachycardic and diaphoretic. You are asked to assemble the equipment and obtain a blood glucose reading using the Microdot Xtra monitoring system.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Verbalize indications for glucose testing</b> <input type="checkbox"/> All pts with AMS, neuro deficits; diaphoresis/tachycardia <input type="checkbox"/> Seizures		
<b>* Prepare and assemble equipment</b> <input type="checkbox"/> Microdot Xtra meter <input type="checkbox"/> Lancet (no lancing device) <input type="checkbox"/> Microdot Test strips <input type="checkbox"/> CHG/IPA prep		
<b>Verbalizes correct procedure for storage and handling of test strips</b> <input type="checkbox"/> Record date opened and the Discard date on each vial (90 days from date opened) <input type="checkbox"/> Cover handwritten dates on vial with clear tape to ensure date remains legible <input type="checkbox"/> Discard unused test strips 90 days from Date Opened; don't use strips beyond expiration date printed on vial <input type="checkbox"/> Store at room temperature below 86° F; keep vial of strips tightly closed when not in use <input type="checkbox"/> Test strips must be stored in original vial		
<b>Verbalize correct procedure to storage and handling of high and low test solutions</b> <input type="checkbox"/> Record date opened and the Discard date on each vial (90 days from date opened). <input type="checkbox"/> Cover handwritten dates on vial with clear tape to ensure date remains legible <input type="checkbox"/> Discard unused control solution 90 days from date opened; don't use solution beyond expiration date printed on vial. <input type="checkbox"/> Store at room temperature below 86° F; keep vials of test solution tightly closed when not in use		
<b>Verbalize need for quality control procedures using control solution testing</b> <input type="checkbox"/> <b>Frequency: DAILY (every 24 hours) if strips are opened plus...</b> <input type="checkbox"/> Any time a new vial of test strips is opened <input type="checkbox"/> Whenever meter is not operating properly <input type="checkbox"/> If pt's S&S differ from test results <input type="checkbox"/> Question if test results are accurate <input type="checkbox"/> If meter is dropped or damaged <input type="checkbox"/> Test strip vial has been left open for >2 hours <input type="checkbox"/> Verbalize that daily tests are documented on MicroDot Quality Control Daily Check form  <input type="checkbox"/> BSI: Apply gloves <input type="checkbox"/> Obtain a complete set of VS; include SpO <sub>2</sub> to put test results into context		
<b>Perform procedure</b> *Open bottle and retrieve test strip. Inspect and discard if bent, scratched, wet, or damaged Close lid tightly to maintain integrity of strips.		
* Insert contact bars of test strip firmly into monitor test port so white fill chamber faces upward. (Place strip directly onto black tongue-shaped platform before inserting into meter)		
* Advance test strip until it stops. Observe monitor turn on; all lights will perform a self-diagnostic test.		
Troubleshoot monitor if error (E 1-5) codes appear before applying blood. Eject test strip by pressing eject button and follow instructions for E code identified.		
* Cleanse side of patient's finger with CHG/IPA prep. Allow to dry completely.		
<input type="checkbox"/> *Obtain a blood drop using a lancet and correct technique (side of finger) (600 microliters) <input type="checkbox"/> *Did not squeeze or milk finger past most distal knuckle <input type="checkbox"/> *Dispose of lancet in a sharps container		
<input type="checkbox"/> If skin did not dry thoroughly, wipe away first drop of blood and use second drop to run test. <input type="checkbox"/> *Hold strip next to drop of blood; allow blood to wick into test strip. Do not smear blood onto strip or place blood on top of strip. Wait for meter to beep when test zone is full.		
Test starts automatically when blood sample is detected. Verbalize that monitor will display --- -- - followed by a countdown from 10		
*Observe display; correctly interpret significance of reading after 10 secs Reportable ranges: Meter is accurate from 20-525. If <20 = LO; > 525 mg/dL meter displays HI If LO or hypoglycemic: ensure vascular access ASAP (IO if needed); infuse D10% IVPB per SOP		

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
Turn off monitor: Hold meter vertically above a safe disposal container with strip pointing down; press eject button		
Clean and disinfect meter after each use by thoroughly wiping surface of unit with an approved 1 minute disinfectant wipe and then wrap in wipe, place in disinfection case and activate 1 min timer. Wet dwell time per wipe.		
<u>Verbalize steps to take if meter malfunctioning and/or giving persistent suspected incorrect readings despite appropriate troubleshooting: Follow Medical Device Malfunction policy. Take meter and strips out of service; contact EMS MD and EMS Admin Director who will contact Frederick W. Engimann, President, Cambridge Sensors USA LLC Cell: 815-341-8094; <a href="mailto:fengimann@microdotcs.com">fengimann@microdotcs.com</a> to collect meter/strips and do an analysis.</u>		
<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions prior to performing skin puncture <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in potential for incorrect test result/patient harm <input type="checkbox"/> Failure to dispose/verbalize disposal of blood-contaminated sharp immediately in proper container <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
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CJM 1/19

\_\_\_\_\_  
Preceptor (PRINT NAME – signature)

**Expected competencies for Point of Care glucose Testing (POCT):**

- Only qualified and credentialed EMS personnel perform POCT.
- **EMS completes and documents daily quality control checks in compliance with CLIA regulations for professional use meters** that are dated and signed along with practitioner’s licensure number to verify identity.
- Only test strips (within expiration date) recommended by the glucometer manufacturer are used in testing.
- **EMS takes appropriate action if the results are not within the normal ranges.**
- **Treat the patient – not the monitor.** If pt is symptomatic, but reading is normal, REPEAT TEST on another arm/hand.
- EMS effectively problem solves error messages displayed on the device and possible incorrect readings.

**Microdot error messages and actions to take**

- E1: Problem with the meter; measurement error (time out, overflow, offset) or temperature out of range. Try again with new test strip. If problem persists, contact Customer Service.
  - E2 Indicates that there may be a problem with the test strip; may be damaged, have been moved or removed during testing or inserted improperly. Check strip for damage. Repeat test with new strip. If error recurs, contact Customer Sx.
  - E3 Could be caused by a used or damaged test strip. Repeat test with new strip. If error recurs, contact Customer Sx.
  - E5 Serial communications error. If error persists, contact Customer Sx.
- If **Battery sign** appears: Power is getting low. May complete ~50 more tests. Replace ASAP. Battery type: CR2032 3 volt.

**Control solution test procedure:**

1. Shake test solution well before using. Wipe dispenser tip then waste first drop of Control Solution to ensure an accurate result.
2. Insert a test strip into the Microdot Xtra meter. Black contact bars must go fully into the meter.
3. Remove cap, invert bottle and squeeze out one drop of control solution. Apply the drop to the strip by bringing the meter and the strip to the drop. Touch drop with the top edge of the test strip and wait until the test pad fills with the solution. Results appear in 10 seconds.
4. Compare results with the ranges of expected results shown on the test strip vial. (Low=Blue cap; High=Red cap)
5. **If results outside of expected range, repeat test.** If second test falls outside of normal range, repeat test with new bottle of control solution and test strips. Verify that strips are not part of recalled lots and that strips and test solutions are not damaged and/or past their expiration dates. Verify that strip test vials have not been left open and meters are in correct mode. Error persists: implement medical device malfunction policy.
6. **If test result is still out of range, implement Medical Device Malfunction policy (see contact tree above).**



# MicroDot<sup>®</sup> Glucometer Quality Control Daily Check Form

EMS Provider: \_\_\_\_\_ Vehicle/Serial # \_\_\_\_\_ Month/Year: \_\_\_\_\_

*Instructions:* Test meters daily if strips are open and as indicated per procedure with HI/LO solution and record results. Shake solution well before using. Discard first drop of solution and wipe dispenser tip to ensure good sample. Compare results with ranges of expected results printed on test strip vial.

**Begin a new sheet on the first day of each month.**

Date	LEGIBLE Signature	PM/PHRN license #	LOW Result (blue top)	LOW Range (found on strip bottle)	HIGH Result (red top)	HIGH Range (found on strip bottle)	Strip Lot #	Exp. Dates for BOTH Strips / Solutions
EX	PM J. Doe	060000046	33	29-59	320	260-420	7103002	7-15-19 / 8-29-19
1								/
2								/
3								/
4								/
5								/
6								/
7								/
8								/
9								/
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**NWC EMSS Skill Performance Record**  
**DEXTROSE 10% (25 g / 250 mL)**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An unconscious adult is determined to be severely hypoglycemic. You are asked to assemble the equipment and administer the appropriate dose of D10% (25 g / 250 mL) via IVPB. The patient weighs 150 pounds.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>Equipment needed:</b> <input type="checkbox"/> IV start supplies (size-appropriate IV catheter <input type="checkbox"/> 0.9% NS IV solution <input type="checkbox"/> D10% (25g/250 mL) <input type="checkbox"/> 2 sets IV tubing (15 drops = 1 mL) <input type="checkbox"/> CHG/IPA prep		
<b>Verbalize the 6 rights of medication administration: RIGHT:</b> <input type="checkbox"/> Person <input type="checkbox"/> Drug <input type="checkbox"/> Dose <input type="checkbox"/> Route <input type="checkbox"/> Time <input type="checkbox"/> Documentation		
<b>Verbalize the following:</b> <input type="checkbox"/> Drug action: Concentrated source of carbohydrate for IV infusion <input type="checkbox"/> *Indication: Confirmed hypoglycemia <input type="checkbox"/> *Side effects: hyperglycemia. Less likely with D10% than with D50%: hyperosmolarity, hypervolemia, phlebitis, pulmonary edema, cerebral hemorrhage, cerebral ischemia		
<b>Confirm RIGHT PATIENT</b> (Drug is indicated) <input type="checkbox"/> Confirm hypoglycemia (bG ≤ 70) or S&S hypoglycemia <input type="checkbox"/> Confirm absence of allergy to the drug (hypersensitivity to corn products) <input type="checkbox"/> Confirm absence of contraindications to the drug: glucose level is normal or high		
<b>Prepare the patient</b> Explain drug and procedure to the patient		
Start peripheral IV/IO line with age & size appropriate catheter per procedure. Hypertonic dextrose solutions (above 5% concentration) should be given slowly, preferably through a small bore needle into a large vein, to minimize venous irritation. Infuse 0.9 NS at TKO rate		
* Verify patency of primary IV line. In peripheral vein, check for retrograde blood flow (should be blood return in tubing) when IV bag is lowered. IV and IO lines should run well with no swelling at the site.		
<b>Prepare equipment/medication: Confirm RIGHT DRUG: D10% (25g/250mL)</b> <input type="checkbox"/> Open D10% outer wrap and verify sterility of medication (all seals in place) <input type="checkbox"/> Check drug solution for color (discoloration), clarity (particulate matter), expiration date		
<b>Prepare medication for administration (RIGHT ROUTE – IV or IO)</b> Concentrated dextrose solutions should not be administered via sub-q or IM routes <input type="checkbox"/> Insert piercing pin from secondary set IV macrodrip tubing into D10% IV bag. Suspend and squeeze drip chamber to fill 1/3 full; prime tubing without wasting fluid; close clamp <input type="checkbox"/> Cleanse IV injection port closest to patient on primary IV tubing with CHG/IPA <input type="checkbox"/> Using strict aseptic technique, attach secondary set (D10% line) to primary IV tubing at port closest to the patient <input type="checkbox"/> Close flow clamp of primary IV tubing; open secondary tubing to D10% line to begin infusion		
<b>Deliver RIGHT DOSE in RIGHT TIME</b> Calculate appropriate dose of medication based on age, size, blood glucose (bG) level. Maximum rate at which dextrose can be infused without producing glycosuria is 0.5g/kg /hr. <b>Adult dose if bG is borderline 60-70 &amp; no evidence of pulmonary edema:</b> <input type="checkbox"/> Open IV WO for DEXTROSE 10% and infuse 12.5 Gm (125 mL or 1/2 of IV bag). <input type="checkbox"/> Once dose administered, close IV clamp on D10% IV and open 0.9 NS clamp to TKO rate. <b>Adult dose if bG &lt; 60 and no evidence of pulmonary edema:</b> <input type="checkbox"/> Open IV WO for DEXTROSE 10% and infuse 25 Gm (entire 250 mL). <input type="checkbox"/> Once dose administered, close IV clamp on D10% IV and open 0.9 NS clamp to TKO rate. <b>If S&amp;S of hypoglycemia fully reverse</b> and pt becomes decisional after a partial dose, reassess bG. If >70; clamp off D10% and open 0.9 NS TKO <input type="checkbox"/> <b>Children and Infants if bG is borderline 60-70 and symptomatic:</b> Give half (1/2) of the dose listed below.		

Performance standard		Attempt 1 rating	Attempt 2 rating
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique, no prompting necessary		
<input type="checkbox"/>	<b>Children and Infants (up to 50 kg or 110 lbs) dose if bG &lt; 60:</b> Initial dose <b>0.5g/kg up to 25 g</b> (5mL/kg) For smaller children, draw up desired volume into a syringe and administer slow IV push. Give additional 0.5 g/kg (5mL/kg) if pt remains hypoglycemic & symptomatic 5 min after initial medication dose.		
<input type="checkbox"/>	<b>If pt has HF or a history of HF and lungs are clear:</b> standard dose, but slow infusion rate to 50 mL increments followed by reassessment		
<input type="checkbox"/>	<b>If pt has HF and lungs have crackles or wheezes:</b> Call OLMC for orders		
	<b>Verbalize Caution:</b> administering too forcefully can result in loss of IV line and damage to surrounding tissues. Exercise care to insure that the IV catheter is well within the lumen of the vein and that extravasation of the medication does not occur. If IV infiltration with fluid extravasation does occur, immediately stop the infusion and inform OLMC.		
	<b>Reassess patient response 5 minutes after infusion:</b> Mental status (GCS) and blood glucose level <b>If bG 70 or greater:</b> Ongoing assessment <b>If bG less than 70:</b> Repeat D10% in 5 Gm (50 mL) increments at 5 -10 minute intervals. Reassess bG and mental status every 5 minutes after each increment.		
	<b>RIGHT DOCUMENTATION:</b> Note presenting S&S of hypoglycemia; baseline bG level; lack of contraindications to drug; drug name, concentration, dose (in Gm), route, time given; patient response (repeat bG level and mental status); any side effects and/or complications.		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 12/16

Preceptor (PRINT NAME – signature)

Peds dosing DEXTROSE 10% (25 g/250 mL)					
Dose: 0.5 g/kg (5 mL/kg) (0.1 g/1 mL in solution)					
Max initial dose: 25 g					
Weight	Dose g = mL	Weight	Dose g = mL	Weight	Dose g = mL
6.6 lbs = 3 kg	1.5 g = 15 mL	41.8 lbs = 19 kg	9.5 g = 95 mL	77 lbs = 35 kg	17.5 g / 175 mL
8.8 lbs = 4 kg	2 g = 20 mL	44 lbs = 20 kg	10 g = 100 mL	79.2 lbs = 36 kg	18 g = 180 mL
11 lbs = 5 kg	2.5 g = 25 mL	46.2 lbs = 21 kg	10.5 g = 105 mL	81.4 lbs = 37 kg	18.5 g = 185 mL
13.2 lbs = 6 kg	3 g = 30 mL	48.4 lbs = 22 kg	11 g = 110 mL	83.6 lbs = 38 kg	19 g = 190 mL
15.4 lbs = 7 kg	3.5 g = 35 mL	50.6 lbs = 23 kg	11.5 g = 115 mL	85.8 lbs = 39 kg	19.5 g = 195 mL
17.6 lbs = 8 kg	4 g = 40 mL	52.8 lbs = 24 kg	12 g = 120 mL	88 lbs = 40 kg	20 g = 200 mL
19.8 lbs = 9 kg	4.5 g = 45 mL	55 lbs = 25 kg	12.5 g = 125 mL	90.2 lbs = 41 kg	20.5 g = 205 mL
22 lbs = 10 kg	5 g = 50 mL	57.2 lbs = 26 kg	13 g = 130 mL	92.4 lbs = 42 kg	21 g = 210 mL
24.2 lbs = 11 kg	5.5 g = 55 mL	59.4 lbs = 27 kg	13.5 g = 135 mL	94.6 lbs = 43 kg	21.5 g = 215 mL
26.4 lbs = 12 kg	6 g = 60 mL	61.6 lbs = 28 kg	14 g = 140 mL	96.8 lbs = 44 kg	22 g = 220 mL
28.6 lbs = 13 kg	6.5 g = 65 mL	63.8 lbs = 29 kg	14.5 g = 145 mL	99 lbs = 45 kg	22.5 g = 225 mL
30.8 lbs = 14 kg	7 g = 70 mL	66 lbs = 30 kg	15 g = 150 mL	101.2 lbs = 46 kg	23 g = 230 mL
33 lbs = 15 kg	7.5 g = 75 mL	68.2 lbs = 31 kg	15.5 g = 155 mL	103.4 lbs = 47 kg	23.5 g = 235 mL
35.2 lbs = 16 kg	8 g = 80 mL	70.4 lbs = 32 kg	16 g = 160 mL	105.6 lbs = 48 kg	24 g = 240 mL
37.4 lbs = 17 kg	8.5 g = 85 mL	72.6 lbs = 33 kg	16.5 g = 165 mL	107.8 lbs = 49 kg	24.5 g = 245 mL
39.6 lbs = 18 kg	9 g = 90 mL	74.8 lbs = 34 kg	17 g = 170 mL	110 lbs = 50 kg	25 g = 250 mL

**NWC EMSS Skill Performance Record**  
**MONITORING a NASOGASTRIC TUBE**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult with a nasogastric tube must be transported. You are asked to prepare the patient for transport and explain the steps a paramedic should take to troubleshoot a non-draining tube.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>* State indications for an NG tube</b> <input type="checkbox"/> Aspiration risk <input type="checkbox"/> Need for gastric lavage <input type="checkbox"/> Need for gastric decompression		
<b>* Universal precautions</b>		
State at least two <b>complications</b> of NG tubes <input type="checkbox"/> Soft tissue trauma from poor technique <input type="checkbox"/> Tube misplacement <input type="checkbox"/> Tube obstruction		
Check to see if tube is draining. If no drainage: <input type="checkbox"/> Use a 60-mL syringe; instill air into tube. Listen over the epigastric area for air movement into the stomach. <input type="checkbox"/> Aspirate syringe to see if gastric contents can be withdrawn. <input type="checkbox"/> If the tube is misplaced, contact OLMC to see if the tube can be removed. If not, leave tube in place and ensure nothing gets instilled into the tube.		
<input type="checkbox"/> Disconnect tube from suction machine if applicable <input type="checkbox"/> Tape a glove securely around distal tube end to collect drainage		
<b>Secure tube prior to transport:</b> <input type="checkbox"/> Ensure that tube is secure to nose or face <input type="checkbox"/> Without tension on tube extending from nose or mouth, measure length to upper chest <input type="checkbox"/> Place loop of tape around tube at that point creating a tape tab and pin through tape to shirt or gown to prevent kinking or dislodging during transport		
Allow distal end of tube to rest in pt's lap if sitting or below stomach if supine to allow for gravity drainage. Do not allow end of tube to touch floor.		
If patient is non-decisional/combative apply soft wrist restraints to protect tube		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**MONITORING an INDWELLING URINARY CATHETER**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult with a Foley catheter must be transported. You are asked to prepare the patient and explain the steps a paramedic should take to ensure safe transport with an indwelling urinary catheter in place.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>* State indications for an indwelling urinary catheter</b> <input type="checkbox"/> Urinary retention or incontinence <input type="checkbox"/> Epidural <input type="checkbox"/> Surgical patient (drainage of urine) <input type="checkbox"/> Clinical need/unstable/sacral or perineal wound <input type="checkbox"/> Medications <input type="checkbox"/> Strict output <input type="checkbox"/> Comfort care		
<b>* Universal precautions</b>		
<b>State at least two complications of indwelling urinary catheters</b> <input type="checkbox"/> Soft tissue trauma; bleeding <input type="checkbox"/> Tube kinking, obstruction <input type="checkbox"/> Infection (common) <input type="checkbox"/> Abdominal pain <input type="checkbox"/> May be pulled out accidentally: inflated balloon can cause trauma; impotence		
<b>Assess for S&amp;S of urinary tract infection</b> <input type="checkbox"/> Pain <input type="checkbox"/> Change in urine color <input type="checkbox"/> Abdomen/flank discomfort <input type="checkbox"/> Temp > 38° C <input type="checkbox"/> Clots/mucous in urine		
<b>*Secure tube prior to transport:</b> <input type="checkbox"/> Maintain closed system; don't clamp tubing <input type="checkbox"/> Ensure that securing device or tape applied to upper thigh prevents tension on tubing and "in & out" movement of catheter from urethra (Photo 1) <input type="checkbox"/> Ensure that tubing is never kinked or obstructed to prevent Autonomic Hyperreflexia or infection <input type="checkbox"/> Secure drainage bag below level of bladder; don't allow bag to be carried higher than bladder <input type="checkbox"/> Don't place bag between patient's legs on stretcher <input type="checkbox"/> Do not allow drainage tube to loop around leg or fall below bag (no dangling or looping) <input type="checkbox"/> Don't let bag lay on floor		
<input type="checkbox"/> Recommend drain urine out of tubing and collection bag pre transfer; document output (Photo 2) <input type="checkbox"/> *Wash hands before & after emptying bag, change gloves - avoid touching spout to container		
If patient is non-decisional/combative apply soft wrist restraints to protect tube		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 12/16

Preceptor (PRINT NAME – signature)



**NWC EMSS Skill Performance Record**  
**CONTACT LENS REMOVAL: HARD LENSES**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult has experienced ocular trauma but the globe appears intact. You are asked to remove the hard contact lenses.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Obtain rapid gross visual acuity</b> <input type="checkbox"/> Can read name badge <input type="checkbox"/> Sees shape/shadow/motion <input type="checkbox"/> Can count fingers <input type="checkbox"/> Sees light projection only <input type="checkbox"/> NLP		
<b>*Prepare and assemble equipment – Apply BSI</b> <input type="checkbox"/> Contact lens storage case or 2 containers w/ lids <input type="checkbox"/> Suction cup - optional <input type="checkbox"/> Sterile saline without preservatives <input type="checkbox"/> Towel or 4X4s		
<b>Prepare patient</b> <input type="checkbox"/> Remove external debris by gently touching adhesive tape against closed eyelids. <input type="checkbox"/> Gently remove dirt, blood, or makeup from eyelids with 4X4s moistened with saline or cotton applicators. Do not dislodge clots. <input type="checkbox"/> Place 2 mL of sterile saline into each specimen cup and label containers L & Rt. If a lens case is used, place a few gtts of saline into each compartment. <input type="checkbox"/> If eye appears dry, instill several drops of preservative-free sterile saline solution and wait a few minutes before removing the lens to help prevent corneal damage.		
<b>Locate the lens in each eye:</b> Can be seen moving on cornea when pt. blinks or by looking sideways across eye - shine a penlight across the eye.		
<b>Critical steps:</b> It is safer for the lens to be entirely on sclera (white) or cornea (color) then partially on each. So if unable to remove, slide to either position.		
Using one thumb, pull the pt's upper eyelid towards the lateral orbital rim (towards ear)		
With other thumb on lower lid, and index finger on upper lid gently move the lids towards each other to trap the lens edges and break the suction.		
Gently press eyelids together toward lens. Use slightly more pressure on lower lid when moving it toward bottom edge of lens.		
<input type="checkbox"/> Pop or slide the lens out between the lids <input type="checkbox"/> Remove the lens and place it in prepared container <input type="checkbox"/> Remove and care for the opposite lens in the same manner		
Examine the eyes for redness or irritation		
<b>Optional approach: Suction cup removal of hard lenses</b> <input type="checkbox"/> Wet the suction cup with a drop of saline <input type="checkbox"/> Gently pull up the upper lid with index finger and pull lower lid down with thumb <input type="checkbox"/> Press the suction cup gently to the center of the lens <input type="checkbox"/> Pull the suction cup and lens away from the eye in a straight line <input type="checkbox"/> Place the lens in the prepared container		
<b>State one complication of the procedure:</b> Trauma after touching cornea w/ suction cup or attempting to remove dry lenses		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**CONTACT LENS REMOVAL: SOFT LENSES**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult has eye trauma but the globe appears intact. You are asked to remove the soft contact lenses.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Obtain rapid gross visual acuity</b> <input type="checkbox"/> Can read name badge <input type="checkbox"/> Sees shape/shadow/motion <input type="checkbox"/> Can count fingers <input type="checkbox"/> Sees light projection only <input type="checkbox"/> NLP		
<b>*Prepare and assemble equipment</b> <input type="checkbox"/> Contact lens storage case or 2 containers w/ lids <input type="checkbox"/> Suction cup - optional <input type="checkbox"/> Sterile saline without preservatives <input type="checkbox"/> Towel or 4X4s		
<b>* Apply BSI (gloves)</b>		
<b>Prepare patient</b> <input type="checkbox"/> Remove external debris by gently touching adhesive tape against closed eyelids. <input type="checkbox"/> Gently remove dirt, blood, or makeup from eyelids with 4X4s moistened with saline or cotton applicators. Do not dislodge clots. <input type="checkbox"/> Place 2 mL of sterile saline into each specimen cup and label containers L & Rt. If a lens case is used, place a few gtts of saline into each compartment. <input type="checkbox"/> If eye appears dry, instill several drops of preservative-free sterile saline solution and wait a few minutes before removing the lens to help prevent corneal damage.		
Locate the lens in each eye: Can be seen moving on cornea when pt. blinks or by looking sideways across eye when shining a penlight across eye. They are less dangerous than hard lenses when left in place.		
<b>Critical steps:</b> It is safer for the lens to be entirely on sclera (white) or cornea (color) then partially on each. So if unable to remove, slide to either position.		
Raise upper eyelid with index finger and hold it against the upper orbital rim. Place thumb on lower lid and gently pull down.		
Have pt look up and slide the lens downward onto sclera (white of eye) with index finger of other hand		
Compresses or pinch lens gently between index finger and thumb		
Remove lens from eye and place in separate, clearly marked ("right" and "left") containers filled with sterile saline solution		
<b>State one complication of the procedure:</b> Trauma as a result of touching the cornea while attempting to remove the lenses.		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

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- Competent:** Satisfactory performance without critical error; minimal coaching needed.
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CJM 12/16

\_\_\_\_\_  
Preceptor (PRINT NAME – signature)

**NWC EMSS Skill Performance Record**  
**INSTALLATION OF TETRACAINE EYE DROPS**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult is experiencing severe eye pain after falling asleep wearing their contact lenses. You are asked to assemble the equipment and perform installation of tetracaine eye drops for possible corneal abrasions.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Obtain rapid gross visual acuity</b>		
<input type="checkbox"/> Can read name badge <input type="checkbox"/> Sees shape/shadow/motion		
<input type="checkbox"/> Can count fingers <input type="checkbox"/> Sees light projection only <input type="checkbox"/> NLP		
<input type="checkbox"/> Determine care provided prior to EMS arrival		
<b>Prepare the patient</b>		
<input type="checkbox"/> *Confirm need for the drug		
<input type="checkbox"/> *Confirm absence of allergy or contraindication to the drug		
Explain the drug action, possible side effects, and procedure to the patient		
* Select appropriate medication: Inspect packaging to confirm drug name, integrity of packaging; concentration, dose, and expiration date		
* Inspect solution for precipitation and change in clarity or color		
* Open package after verifying sterility of medication		
<b>Perform procedure:</b> * Universal precautions		
* Instruct patient to look up		
* Gently pull lower eyelid downward		
<input type="checkbox"/> *Without touching medication container to eye, instill 1 gtt tetracaine into conjunctival cul-de-sac		
<input type="checkbox"/> * Do not place drops directly onto the cornea		
Release lower eyelid and allow pt to close eyes normally to distribute gtts Provide patient with tissue to absorb excess drops		
<b>Critical Criteria: Check if occurred during an attempt</b>		
<input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions		
<input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation		
<input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm		
<input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Factually document below your rationale for checking any of the above critical criteria.**

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

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- Competent:** Satisfactory performance without critical error; minimal coaching needed.
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**NWC EMSS Skill Performance Record**  
**EYE IRRIGATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult has experienced a chemical splash to their eyes. You are asked to assemble the equipment and perform eye irrigation.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Obtain rapid gross visual acuity</b>		
<input type="checkbox"/> Can read name badge <input type="checkbox"/> Sees shape/shadow/motion		
<input type="checkbox"/> Can count fingers <input type="checkbox"/> Sees light projection only <input type="checkbox"/> NLP		
<input type="checkbox"/> <b>Determine type of chemical if known:</b> acid, alkali or other		
<input type="checkbox"/> Determine care provided prior to EMS arrival		
<b>* Prepare and assemble equipment</b>		
<input type="checkbox"/> 1000 mL NS IV <input type="checkbox"/> Gauze pads <input type="checkbox"/> Towels		
<input type="checkbox"/> Regular IV tubing <input type="checkbox"/> Tetracaine gtts <input type="checkbox"/> Bath basin		
* Universal precautions		
<b>Prepare patient – move as quickly as possible</b>		
Obtain history for contact use; remove contact lenses if in place		
Explain procedure to patient if awake		
* Instill tetracaine drops per procedure.		
<input type="checkbox"/> Position patient on side with affected eye downward or turn head to side		
<input type="checkbox"/> Place towel around neck; position bath basin to collect liquid		
<b>Perform procedure</b>		
* Apply dry gauze above and below eyelids		
* Ask patient to look upward and gently pull down lower lid		
* Irrigate, aim fluid from inner to outer canthus, avoid direct stream on cornea		
Remove any particulate matter with a moistened cotton applicator		
* Ask patient to look down and gently retract upper lid. Irrigate under upper lid.		
Continue irrigation enroute, repeating installation of tetracaine prn		
<b>Critical Criteria: Check if occurred during an attempt</b>		
<input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions		
<input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation		
<input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm		
<input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

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**NWC EMSS Skill Performance Record  
EYE PRESSURE PATCH**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult has sustained a possible corneal abrasion. You are asked to pressure patch the affected eye.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>*Obtain rapid gross visual acuity</b> <input type="checkbox"/> Can read name badge <input type="checkbox"/> Sees shape/shadow/motion <input type="checkbox"/> Can count fingers <input type="checkbox"/> Sees light projection only <input type="checkbox"/> NLP		
* Inspect the eye for signs of perforation or penetration		
<b>*Prepare and assemble equipment</b> <input type="checkbox"/> Tetracaine eye drops <input type="checkbox"/> Oval eye patches (2) or 4x4 gauze (2) for each eye to be patched <input type="checkbox"/> Tape - at least three 9" lengths <input type="checkbox"/> Towel or 4X4s		
*Apply BSI (gloves)		
<b>State one contraindication to the procedure:</b> <input type="checkbox"/> Eye irritation as a result of infection <input type="checkbox"/> Suspected open globe evidenced by hyphema, leak of aqueous or vitreous humor, tear-drop shaped pupil etc.		
<b>Prepare patient</b> <input type="checkbox"/> *Instill several drops of tetracaine and wait a few sec before applying the patch <input type="checkbox"/> Cleanse skin around eye to remove debris, drainage, or residual eye medications		
<b>Critical steps:</b> Ask patient to close eyes		
Determine the number of eye pads needed to fill the depth of patient's eye socket		
*Fold oval eye patch in half or 4x4 in quarters		
*Position folded patch or 4x4 against closed lid. Cover first patch with one or more flat eye patches angled across eye to fill socket.		
<input type="checkbox"/> *Tape snugly in place with parallel strips of tape extending from central forehead to lateral cheek on both sides of patch. Before securing tape to cheek, lift cheek up, apply tape, and then release cheek. <input type="checkbox"/> Avoid placing tape over side of nose or nasolabial fold.		
<b>*State one complication of the procedure:</b> <input type="checkbox"/> Eye patches applied too tightly can result in eye damage <input type="checkbox"/> Further trauma due to lid motion under a loose patch		
<b>Critical Criteria: Check if occurred during an attempt</b> <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in the potential for patient harm <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

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- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**PEDIATRIC MEASUREMENT using a LENGTH-BASED TAPE**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** A child appears to be very ill. Accurately use the Broselow pediatric length based tape to determine the size/weight of various pediatric manikins and identify the information to be gained from the tape relative to catheter sizes, fluid volumes to infuse, drug doses, etc.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* Apply PPE		
* Place child in supine position		
* Place the end of the tape with the arrow (RED) at the top of the patient's head		
* Stretch tape down to the child's heel		
* Identify the color section on the tape		
<input type="checkbox"/> *Approximate weight of the patient		
<input type="checkbox"/> *Medication dosages		
<input type="checkbox"/> *Airway management (ET size, suction catheter, oral/nasal airways)		
<input type="checkbox"/> *Fluid bolus amount		
* Document patient's weight on patient care report		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 12/16

\_\_\_\_\_ Preceptor (PRINT NAME – signature)

**NWC EMSS Skill Performance Record  
PEDIATRIC INTUBATION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Notes from 2016 SOP:**

CHILDREN < 12 years of age shall have airways secured using BLS adjuncts & interventions

**If unable to secure airway with BLS interventions: May make 1 attempt at advanced airway per OLMC only**

ADOLESCENTS > 12 yrs: Manage airways per adult SOPs

**Possible indications for advanced airway in children**

- Persistent airway impairment, ventilatory failure (apnea, RR <10 or >40; shallow/labored effort; SpO<sub>2</sub> ≤ 92; increased WOB (retractions, nasal flaring, grunting) → fatigue
- Inability to ventilate/oxygenate adequately after insertion of OP/NP airway and/or via BVM
- Need for ↑ inspiratory or positive end expiratory pressures to maintain gas exchange or sedation to control ventilations.

**Contraindications/restrictions for DAI:** Coma with absent airway reflexes or known hypersensitivity/allergy to drugs

**Instructions:** An unconscious child presents from a submersion incident with an impaired airway but protective airway reflexes intact with a carotid pulse present. No c-spine injury is suspected. Prepare the equipment and intubate patient.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>* BSI: Universal and droplet precaution; May perform ONLY with OLMC ORDER</b>		
<b>Prepare patient</b>		
<input type="checkbox"/> Position appropriately with pad under occiput or torso depending on age and size		
<input type="checkbox"/> Open the airway manually <input type="checkbox"/> *Insert BLS adjuncts: NPA or OPA unless contraindicated		
Assess SpO <sub>2</sub> on RA if time and personnel allow; auscultate breath sounds for baseline		
<input type="checkbox"/> <b>*Preoxygenate/ventilate for 3 min</b> w/ O <sub>2</sub> 12-15 L/BVM with O <sub>2</sub> reservoir every 3 to 5 sec. (Must demonstrate good ventilation of manikin); squeeze bag over 1 sec with sufficient volume to see chest rise – avoid high pressure & gastric distention. Ventilate with RA until O <sub>2</sub> source available.		
<input type="checkbox"/> Attach ETCO <sub>2</sub> sensor between bag and mask		
<b>Assess for signs suggesting a difficult intubation:</b> neck/mandible immobility, oral trauma, loose teeth; F/B; inability to open mouth, Mallampati view III or IV, short thyromental distance; overbite		
<b>Selects, checks, assembles equipment</b>		
Have everything ready before placing blade into mouth		
<input type="checkbox"/> ✓suction source; attach rigid tip (DuCanto) catheter; prep advanced airway and cric equip.		
<input type="checkbox"/> Select ETT based on child's size, not age - Measure w/ Broselow tape up to 35 kg - See table. Cuffed ETT ID (mm) = 3.5 + (age/4) or size of 5 <sup>th</sup> finger		
Prepare tubes one size larger and one size smaller than the one estimated		
<input type="checkbox"/> Laryngoscopes & blades (curved and straight; multiple sizes)		
<input type="checkbox"/> Peds bougie; 10 mL syringe; water-soluble lubricant		
<input type="checkbox"/> Commercial tube holder or tape, head blocks or tape, stethoscope		
<input type="checkbox"/> Have alternate airway selected, prepped, & in sight (i-gel) or needle cric		
<input type="checkbox"/> Sedative (ketamine)		
<input type="checkbox"/> Insert peds bougie so distal tip is proximal to end of tube.		
<input type="checkbox"/> Check ETT cuff integrity while in package if applicable; fill syringe w/ 10 mL of air; leave attached to pilot tubing		
Place lubricant on inside of the top of the ETT package		
<b>* Assemble laryngoscope; ensure it is operational; check light source (tight, bright &amp; white)</b>		
<b>* Apply ECG monitor (perfusing rhythm &amp; pulse present)</b>		
<b>Sedate: KETAMINE</b> 2 mg/kg slow IVP (over 1 min) or 4 mg/kg IN/IM (calculate dose based on size of child. See chart SOPs p. 101) Allow for clinical response before DAI (if possible).		
<b>Pass tube:</b> * (Allow no more than 30 sec of apnea)		
<input type="checkbox"/> Maintain O <sub>2</sub> 6 L/NC during procedure		
<input type="checkbox"/> Assistant or examiner withdraws OPA/NPA remains		
<input type="checkbox"/> Have partner apply lip retraction, external laryngeal pressure; in-line stabilization if indicated		
<input type="checkbox"/> Monitor VS, level of consciousness, skin color, ETCO <sub>2</sub> , SpO <sub>2</sub> q. 5 min. during procedure and time elapsed		

<b>Performance standard</b>		<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/>	Interrupt DAI if HR < 60 or SpO <sub>2</sub> < 94%: 1 breath q. 3-5 sec w/ O <sub>2</sub> 15 L/BVM until condition improves. Consider need for atropine if pt remains bradycardic.		
<b>START TIMING tube placement after last breath _____</b>			
<input type="checkbox"/>	Withdraw tube from pkg through lubricant; hold in dominant hand; do not contaminate ETT		
<input type="checkbox"/>	Open mouth w/ cross finger technique		
<input type="checkbox"/>	*Insert curved blade from R, sweep tongue to the L & seat distal blade tip in vallecula		
<input type="checkbox"/>	*Insert straight blade down midline of tongue under epiglottis		
<input type="checkbox"/>	*Visualize epiglottis as inserting. Seat blade. Lift at a 45° to floor of mouth avoiding the upper gums/teeth		
	* Visualize glottic structures/cords; insert bougie into glottic opening; pass tube over bougie. If > 30 sec: have elapsed; ventilate X 30 sec; reposition, try new blade.		
	* Pass ETT through cords: Align distal tube markings with vocal cords; Note marking on proximal tube end at teeth/gums. Depth of insertion= ETT diameter X 3. If > 2 yrs: (Age in yrs / 2) + 12		
	*While holding ETT in place, remove laryngoscope blade and bougie		
	* Attach peds EtCO <sub>2</sub> sensor to ETT. Ventilate w/ 15 L O <sub>2</sub> /peds BVM at age-appropriate rate; observe chest rise. Auscultate over epigastrium, both midaxillary lines and bilaterally over anterior chest.		
	<b>Time of first breath:</b>		
	* If tube is in stomach: Withdraw, re-oxygenate 30 seconds and attempt again with new tube If placed in trachea, but breath sound unequal: adjust tube depth, re-ventilate.		
	<b>If tube placed correctly</b>		
<input type="checkbox"/>	O <sub>2</sub> 15 L/BVM ventilate every 3 to 5 seconds just to see chest rise		
<input type="checkbox"/>	Inflate cuff if present (avoid overinflation); note ET depth: diamond on ETT level w/ teeth or gums (3 X ID ETT)		
<input type="checkbox"/>	Secure ETT with commercial device or tape. Reassess ETCO <sub>2</sub> & lung sounds. Apply lateral head immobilization.		
<input type="checkbox"/>	<b>Post-intubation sedation</b> if SBP > 70 + 2 X age or ≥ 90 if 10 -12 yrs: MIDAZOLAM 0.1 mg/kg slow IVP (0.2 mg/kg IN/IM) (max single dose 5 mg). May repeat to total of 10 mg based on size and BP.		
<input type="checkbox"/>	Continue to monitor ETCO <sub>2</sub> or capnography to confirm tracheal placement.		
	<b>If intubation unsuccessful and good air exchange w/ peds BVM: Continue ventilations/BVM.</b>		
	<b>If unable to intubate</b> or adequately ventilate with BVM: Consider need for alternate airway		
	* <b>Reassess:</b> Frequently monitor SpO <sub>2</sub> , EtCO <sub>2</sub> , tube depth, VS, & lung sounds enroute to detect displacement, complications (esp. after pt movement), or condition change If intubated & deteriorates, consider: <b>D</b> isplacement of tube, <b>O</b> bstruction of tube, <b>P</b> neumothorax, <b>E</b> quipment failure (DOPE)		
	<b>State complications of the procedure:</b>		
<input type="checkbox"/>	Post-intubation <b>hyperventilation:</b> Use watch, clock, timing device		
<input type="checkbox"/>	<b>Barotrauma:</b> pneumothorax & tension pneumothorax; esophageal perforation		
<input type="checkbox"/>	Trauma to teeth or soft tissues	<input type="checkbox"/>	Undetected esophageal intubation
<input type="checkbox"/>	Mainstem intubation (R)	<input type="checkbox"/>	Hypoxia, dysrhythmia
	<b>Critical Criteria: Check if occurred during an attempt (automatic fail)</b>		
<input type="checkbox"/>	Failure to initiate ventilations within 30 sec after applying gloves or interrupts ventilations for >30 sec at any time		
<input type="checkbox"/>	Failure to take or verbalize body substance isolation precautions		
<input type="checkbox"/>	Failure to voice and ultimately provide high oxygen concentrations [at least 85%]		
<input type="checkbox"/>	Failure to ventilate patient at an age & size appropriate rate		
<input type="checkbox"/>	Failure to provide adequate volumes per breath [maximum 2 errors/minute permissible]		
<input type="checkbox"/>	Failure to pre-oxygenate patient prior to intubating and suctioning		
<input type="checkbox"/>	Failure to successfully ventilate and oxygenate effectively		
<input type="checkbox"/>	Failure to disconnect syringe <b>immediately</b> after inflating cuff if present		
<input type="checkbox"/>	Uses teeth or gums as a fulcrum		
<input type="checkbox"/>	Failure to assure proper tube placement by ETCO <sub>2</sub> and auscultation of chest bilaterally <b>and</b> over the epigastrium		
<input type="checkbox"/>	Stylette extends beyond end of ET tube		
<input type="checkbox"/>	Inserts any adjunct in a manner dangerous to the patient		
<input type="checkbox"/>	Suctions patient excessively or does not suction the patient when needed		
<input type="checkbox"/>	Failure to manage the patient as a competent paramedic		
<input type="checkbox"/>	Exhibits unacceptable affect with patient or other personnel		
<input type="checkbox"/>	Uses or orders a dangerous or inappropriate intervention		
	<b>Evaluator initials for each attempt</b>		

Age averages	0-12 mos	1-2 yrs	3-4 yrs	5 yrs	6-7 yrs	8-11 yrs
Wt. in kg	3-9 kg	10-13 kg	14-16 kg	16-20 kg	18-25	24-32 kg
Blade size	0-1 str	1 str	2 str	2 str	2 str or curved	2 str or c
Tracheal tube	3.5-4.0 No cuff	4.0 No cuff	4.5 No cuff	5.0 No cuff	5.5 May be cuffed	6.0 Cuffed
Distance to upper lip	7-10.5	11-12	12.5-13.5	14-15	15.5-16.5	17-18

**Factually document your rationale for checking any of the above critical items below.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

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Preceptor (Print name / signature)

**NWC EMSS Skill Performance Record**  
**PEDIATRIC IV INSERTION**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** A 4 y/o is in need of peripheral vascular access for a TKO line. You are asked to assemble the equipment, choose the correct size catheter from those available, and initiate an IV on the manikin.

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique, no prompting necessary		
<b>Verbalize indications for IV:</b> <input type="checkbox"/> Fluid & elect replacement <input type="checkbox"/> Drug administration Most urgently needed for: hypovolemia, hemorrhage, or prolonged cardiac dysfunction with acidosis		
<b>Prepare patient and caregiver</b> Use age-appropriate techniques to prepare the child. Inform them about procedure in terms they can understand (what they will experience and feel). Explain procedure to caregiver; provide reassurance.		
<b>Prepare equipment</b> <input type="checkbox"/> *Select appropriate IV solution (NS) <input type="checkbox"/> 1000 mL NS or <input type="checkbox"/> 250 mL NS and examine covering for leakage or other damage. Open outer bag at the precut slit at either end. Take care not to cut or puncture the inner IV bag. <input type="checkbox"/> *Verify sterility of solution (all seals in place). Check solution for leaks, clarity, cloudiness, contaminates, precipitation, and expiration date.		
<b>Spike IV bag &amp; prime IV tubing</b> <input type="checkbox"/> Remove infusion set from package; uncoil tubing; close clamp, remove spike protector without contaminating spike or the needle adaptor. <input type="checkbox"/> Turn IV bag upside down with IV & medication ports facing up; remove cover from IV port, maintain sterility of port <input type="checkbox"/> *Insert tubing spike into IV port with a pushing and twisting motion until it punctures seal. <input type="checkbox"/> *Invert bag. Grasp IV set at drip chamber and squeeze. Fill drip chamber 1/3 to 1/2 full or to the fill line. <input type="checkbox"/> *Open clamps and/or flow regulator to flush (prime) line with NS. May temporarily remove end cap to facilitate procedure, but not necessary. Remove all large air bubbles from tubing. (Empty IV tubing contains ~30 mL of air. This could cause a lethal air embolus if all infused into the patient.) <input type="checkbox"/> Reclamp tubing shut. Recap end if removed to flush tubing. <input type="checkbox"/> Hang IV or have someone hold bag. Place capped tubing end close to where line will be started for easy access.		
* Select appropriate <b>IV catheter</b> . Type of venipuncture device will depend on the child's age, activity level, purpose of IV, available veins, and site selected. Largest gauge catheter with the shortest length is preferred to allow rapid fluid infusion when volume resuscitation is necessary. <input type="checkbox"/> Neonates 24-26 g <input type="checkbox"/> Infants 22-24 g <input type="checkbox"/> Children 20-22 g <input type="checkbox"/> Adolescents needing fluids 16-18.g		
<input type="checkbox"/> Skin prep pads (CHG/IPA) <input type="checkbox"/> Gauze pads <input type="checkbox"/> Tape <input type="checkbox"/> 50-60mL syringe. 3-way stopcock <input type="checkbox"/> Skin protectant film <input type="checkbox"/> Tourniquet <input type="checkbox"/> Sharps container <input type="checkbox"/> Tear 3-4 pieces of 1/4 - 1/2" tape about 4-6" long <input type="checkbox"/> IV protector shield; arm board		
<b>Procedure</b> * Observe strict Universal precautions & aseptic technique during catheter insertion		
<b>Site selection/preparation</b> Select vein that is pliable, appears long enough to accommodate catheter length without traversing a joint, and large enough to allow blood flow around the catheter. Commonly selected vessels: metacarpals on dorsum of hand, accessory cephalic, cephalic, and antecubitals (often visible or palpable in children when other veins won't dilate, as in shock or severe dehydration). During CPR: use IO. Avoid veins in the inner wrist or arm -small and uncomfortable to access. Avoid sites with circumferential burns, infection, or marked edema; extremity with a suspected fracture. <input type="checkbox"/> Expose extremity to be cannulated. Inspect for suitable site. <input type="checkbox"/> Place small roll of gauze behind elbow to aid in hyperextension for antecubital site. <input type="checkbox"/> May need to papoose child with sheet to protect their safety during procedure.		
* Apply venous tourniquet 4" proximal to selected IV site; palpate distal pulse. Never leave in place for more than two minutes as changes occur in slowed venous blood.		
* Lightly palpate veins with index finger. If it rolls or feels hard and rope-like, select another vein. Avoid points of flexion if possible. If vein easily palpable but not sufficiently dilated:		

<p align="center"><b>Performance standard</b></p> <p>0 Step omitted (or leave blank)  1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique  2 Successful; competent with correct timing, sequence &amp; technique , no prompting necessary</p>	<p align="center"><b>Attempt 1 rating</b></p>	<p align="center"><b>Attempt 2 rating</b></p>
<input type="checkbox"/> Tap gently over vein with your finger. <b>Do not slap</b> - will collapse the vein. <input type="checkbox"/> Place extremity in a dependent position <input type="checkbox"/> Have patient open and close fist several times		
<p>* Prep site with CHG/IPA*. Dry 30 sec. Do not contaminate by touching after cleaned.</p>		
<p><b>Catheter insertion</b></p> <input type="checkbox"/> Remove protective cap from needle in a straight outward manner keeping catheter sterile. (Do not depress white activation button of Insyte® catheter) <input type="checkbox"/> If using InSyte catheter: Rotate catheter hub 360° to loosen catheter from needle. Failure to do so may affect needle retraction. NEVER slide catheter end over needle to break seal. <input type="checkbox"/> Inspect needle tip for defects		
<p>* Anchor vein with thumb distal to insertion site, stretching the skin near the vein. Do not place your thumb directly over vein or blood flow will be occluded and veins will flatten. If using a hand vein, slightly flex patient's wrist.</p>		
<p>* Hold catheter between thumb and index finger of dominant hand (like a pool cue). Insert needle, bevel up (in relation to the patient's skin surface) through skin &amp; vein at a 15-30° angle. (Very sharp catheters enter veins with little or no popping sensation.) Take care not to enter too fast or too deeply as needle can pass through back-side of vein.</p>		
<input type="checkbox"/> Observe for blood return in flashback chamber <input type="checkbox"/> If vein is missed, retract needle as described below, apply gauze dressing/Band-Aid and begin again with a new catheter at another site		
<input type="checkbox"/> If vein successfully cannulated: Lower catheter angle to almost parallel to skin & advance needle/catheter 1/8 <sup>th</sup> inch to ensure proper tip positioning in vein <input type="checkbox"/> If unable to enter vein, withdraw needle & catheter slightly, use caution not to withdraw needle tip out of skin. Re-attempt to advance into vein. If vein is missed or needle is pulled entirely out of skin, retract needle, apply gauze/Band-Aid and begin again with new catheter at another site. Limited to 2 attempts unless OLMC authorizes additional tries.		
<p><b>Catheter advancement:</b></p> <p>* Hold flash chamber/needle stationary and use index finger to advance catheter off the needle into the vein up to its hub. (Needle provides guidewire effect for catheter advancement. Some catheters have a push tab on the top of the colored hub for this step)</p>		
<p>* <b>Release tourniquet</b> (Failure to release before needle retraction may result in blood exposure)</p>		
<p><b>Needle retraction:</b></p> <input type="checkbox"/> Put gauze pad under hub of catheter <input type="checkbox"/> Apply digital pressure directly proximal to catheter tip w/ one fingertip and stabilize colored hub with another fingertip without contaminating needle insertion site <input type="checkbox"/> <b>Protectiv™ IV catheter</b> (Criticon) <ul style="list-style-type: none"> <li>o Glide the protective guard over the needle</li> <li>o Listen for the "click" that confirms needle is safely locked in place</li> <li>o Remove encased, locked needle from the catheter hub</li> </ul> <input type="checkbox"/> <b>Insyte Saf-T-Cath</b> (Becton Dickinson) <ul style="list-style-type: none"> <li>o Do not fully retract needle until catheter is fully inserted into vein.</li> <li>o Avoid premature activation of retraction button. Push button to retract needle into clear safety shield. If activation does not occur, press button again. If activation still does not occur, withdraw needle &amp; place immediately into sharps container.</li> </ul> <input type="checkbox"/> Discard shielded needle unit immediately into sharps container		
<p><b>Connect IV tubing to catheter and establish IV flow:</b></p> <input type="checkbox"/> *Remove protective cap on IV tubing; slide end of tubing onto IV catheter hub; release pressure to vein <input type="checkbox"/> Use of J loop preferred between IV catheter and IV tubing <input type="checkbox"/> *While continuing to hold the IV catheter, open clamp on IV tubing to start fluid flow to establish patency, adjust desired flow rate. <p>Note: When using a roller or screw clamp for flow regulation, rate must be monitored closely as vein spasm, vein pressure changes, pt movement, bent or kinked tubing, and gravity drop height may cause flow rate to vary markedly.</p> <p>* If giving an IV bolus, calculate child's wt. X 20 mL/kg. Attach 60 mL syringe to stopcock; open stopcock to IV bag and withdraw appropriate amount. Turn stopcock to child and slowly push fluids. Repeat until correct amount given (over 5 min) while preserving the integrity of IV. If IVF is given too fast or too slowly, child may experience phlebitis, infiltration, circulatory overload, or insufficient resuscitation.</p>		
<p><b>Dressing/Stabilization:</b></p> <input type="checkbox"/> Clean up blood at site with a gauze pad.		

<b>Performance standard</b>		<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0	Step omitted (or leave blank)		
1	Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2	Successful; competent with correct timing, sequence & technique , no prompting necessary		
<input type="checkbox"/>	Peel lining from transparent dressing exposing adhesive surface: center dressing over catheter site; apply protective film over dry skin without stretch or skin tension, leave IV tubing connector to colored hub free. Slowly remove the frame while smoothing dressing from center to edges using firm pressure to enhance adhesion.		
<input type="checkbox"/>	Secure IV tubing with adhesive strips or commercial dressing as needed. Do not tape over IV connection sites. Do not conceal hub-tubing connection.		
<input type="checkbox"/>	<b>Protect the site:</b> Immobilize limb on an arm board. Position board so fingers curve over the end rather than being fully outstretched on a flat plane. Cover/protect site with a paper or Styrofoam cup sliced in half or a commercially available product secured over IV insertion area.		
	* <b>Document</b> IV fluid, insertion site, # of attempts as successful or unsuccessful, catheter gauge, time started, flow rate and amount infused. Label IV bag.		
	*State 2 signs of infiltration (D/C line) <input type="checkbox"/> IV does not flow <input type="checkbox"/> Local swelling <input type="checkbox"/> Site pain/burning		
	* State method to determine patency: check retrograde flow * State method to troubleshoot poorly running line (See adult IV access procedure)		
	* Properly discard all disposable components; Sharps directly into sharps container		
	State 3 complications of an IV (See adult IV access procedure)		
	<b>Note actual time for each attempt from start to finish:</b>		
<input type="checkbox"/>	*Check if patent IV was not established within 2 minutes		
	<b>Monitor and document response to initial fluid bolus:</b> improvement in capillary refill, mental status, skin color and temperature of the extremities, ↓ HR, and elevation of an initially low BP.		
	<b>Critical Criteria - Check if occurred during an attempt</b> <input type="checkbox"/> Failure to establish a patent and properly adjusted IV within 2 minute time limit <input type="checkbox"/> Failure to take or verbalize appropriate body substance isolation precautions prior to performing venipuncture <input type="checkbox"/> Contaminates equipment or site without appropriately correcting the situation <input type="checkbox"/> Performs any improper technique resulting in potential for uncontrolled hemorrhage, catheter shear, or air embolism <input type="checkbox"/> Failure to dispose/verbalize disposal of blood-contaminated sharps immediately in proper container at the point of use <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses or orders a dangerous or inappropriate intervention		

**Factually document your rationale for checking any of the above critical items below.**

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**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

\_\_\_\_\_  
Preceptor (Print name / signature)

**NWC EMSS Skill Performance Record**  
**CARDIAC ARREST MANAGEMENT - PEDIATRIC VF**

Name #1	Date:
Name #2:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #3:	2nd attempt:    #1: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #2: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #3: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #4: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #5: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #6: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Name #4:	
Name #5:	
Name #6:	
Name #6:	

**Instructions to the students:** This child appears to be about 6 and was found in on the floor by a family member who called 911. Assess the patient and provide care per SOPs.

Performance standard	Performs w/o coaching	Needs additional practice
* Assess responsiveness (unresponsive)		
* Open airway using chin lift; assess for spontaneous ventilations: look, listen, feel for air movement for no more than 10 sec. (none present)		
Suction as necessary		
* Give 2 breaths 1 sec each w/ just enough volume to see chest rise		
* Assess for carotid pulse (5-10 sec) (none present)		
* Initiate good chest compressions (see notes) in 5 cycles of 30:2 for 2 min.		
* Apply defibrillator pads w/ chest compressions in progress.		
* Rapidly measure child with Broselow tape to determine approximate size/weight (<50 kg)		
* After 2 min of CPR; pause compressions ≤10 sec; ✓ rhythm (VF). Change compressor.		
* Defibrillate at 2 J/kg (charge defibrillator w/ chest compressions in progress).		
* Without checking ECG or pulse, immediately resume CPR starting w/ chest compressions for 2 min.		
* After 2 min of CPR; pause compressions (<10 sec); ✓ rhythm (VF); change compressor. Resume compressions while monitor is charging.	<b>Rating</b>	*While compressions paused for rhythm ✓: Intubate. Ventilate w/ 15 L O <sub>2</sub> /BVM at 8-10 BPM. If unable to intubate, ventilate w/ OPA + BVM. After ET placed, do not pause compressions to ventilate.
*If shockable rhythm: Clear pt. Defibrillate at 4 J/kg		* Secure vascular access (IV/IO), NS TKO
*Without checking ECG or pulse, immediately resume CPR starting w/ chest compressions at 100/min for 2 min.		*Prepare epinephrine and amiodarone
* After 2 min of CPR; pause compressions (<10 sec); ✓ rhythm (VF) & capnography; change compressor. Resume compressions while monitor is charging.		* Epinephrine 1mg/10mL 0.01 mg/kg (0.1 mL/kg) up to 1 mg IVP/IO. (See chart in appendix SOP) Repeat every 3-5 min.
* If shockable rhythm: Clear pt. Defibrillate at 4 J/kg		* Amiodarone 5 mg/kg (max single dose 300 mg) IVP/IO (See chart p. 93 SOP)
*Without checking ECG or pulse, immediately resume CPR starting w/ chest compressions at 100/min for 2 min.		
* After 2 min of CPR; pause compressions (<10 sec); ✓ rhythm (VF) & capnography; change compressor. Resume compressions while monitor is charging.		Consider NaHCO <sub>3</sub> 1 mEq/kg IV/IO if arrest caused by bicarb -responsive acidosis (DKA/tricyclic antidepressant, ASA OD, cocaine or diphenhydramine) or known hyperkalemia.
* If shockable rhythm: Clear pt. Defibrillate at 4 J/kg		
*Without checking ECG or pulse, immediately resume CPR starting w/ chest compressions at 100/min for 2 min.		
<b>Return of spontaneous circulation (ROSC):</b> Assess for post-arrest shock. Support ABCs; follow appropriate SOP to support BP w/ UNWARMED NS 10-20 mL/kg IVP and NOREPINEPHRINE as needed. Avoid hyperthermia & hyperglycemia.		

**Notes on good CPR:**

- Push hard (Approx. 1/3 to 1/2 depth of chest) and fast (100-120); over lower 1/2 of sternum (1-adolescent) or just below nipples (infant); ensure full chest recoil; minimize interruptions in chest compressions (≤ 10 sec)
- Continue CPR while defibrillator is charging and drugs are prepared & given.
- Interrupt chest compressions only for ventilations (until advanced airway placed), rhythm check & shock delivery.
- Rotate person providing compressions every 2 minutes during ECG rhythm checks
- Pts should not be moved while CPR is progress unless in a dangerous environment or pt is in need of intervention not immediately available. CPR is better and has fewer interruptions when resuscitation is conducted where the pt. is found.

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**  Competent: Satisfactory entry-level performance without critical error; minimal coaching needed  
 Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

**Comments:**

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Preceptor (Print name / signature)

CJM: 2/15

There are 6,400 cardiac arrests annually in children under 18 y/o (1.6%, 18/day)

**NWC EMSS Skill Performance Record**  
**CARDIAC ARREST MANAGEMENT - PEDIATRIC ASYSTOLE/PEA**

Name #1 (leader):	Date:
Name #2:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #3:	2nd attempt:    #1: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #2: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #3: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #4: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #5: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat #6: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Name #4:	
Name #5:	
Name #6:	
Name #6:	

**Instructions to the students:** This child appears to be about 2 years old and was found in bed by a family member who called 911. There are no long-term indications of death. Assess the patient and provide care per SOPs.

Performance standard	Performs w/o coaching	Needs additional practice
One team member seeks information about possible contributing factors: <input type="checkbox"/> Hypovolemia <input type="checkbox"/> Hypoxia <input type="checkbox"/> Hypothermia <input type="checkbox"/> Hypoglycemia <input type="checkbox"/> Hyper/hypokalemia <input type="checkbox"/> Hydrogen ion (acidosis) <input type="checkbox"/> Thrombosis (coronary or pulmonary) <input type="checkbox"/> Toxins <input type="checkbox"/> Tension pneumo <input type="checkbox"/> Tamponade cardiac <input type="checkbox"/> Trauma		
* Assess responsiveness (unresponsive)		
* Open airway using chin lift; assess for ventilations: look, listen, feel for air movement (≤10 sec.) (none)		
Suction as necessary		
* Give 2 breaths 1 sec each w/ just enough volume to see chest rise		
* Assess for brachial/apical pulse (5-10 sec) (none present)		
* Initiate good chest compressions (see notes) (5 cycles of 30:2) for 2 min.		
* Apply (peds) defibrillator pads w/ chest compressions in progress.		
* Rapidly measure child with Broselow tape to determine approximate size/weight (<50 kg)		
* After 2 min of CPR; pause compressions (≤10 sec.); ✓ rhythm (Asystole - confirm in 2 leads). Change person doing compressions.		
*Immediately resume CPR starting w/ chest compressions at 100/min. in cycles of 30:2 for 2 min.		
* After 2 min of CPR; pause compressions (<10 sec); ✓ rhythm (IVR); change compressor. *If electrical activity: ✓ pulse (no pulse)	<b>Rating</b>	*Ventilate w/ 15 L O <sub>2</sub> /BVM at 10 BPM. Consider need to place advanced airway. After Advanced airway placed, do not pause compressions to ventilate.
*Immediately resume CPR starting w/ chest compressions at 100/min for 2 min.		* Secure vascular access (IV/IO), NS TKO
* After 2 min of CPR; pause compressions (<10 sec); ✓ rhythm (IVR) & capnography; change compressor. * If electrical activity: ✓ pulse (no pulse)		*Prepare epinephrine
*Immediately resume CPR starting w/ chest compressions at 100/min for 2 min.		* Epinephrine 1 mg/10mL 0.01 mg/kg (0.1 mL/kg) up to 1 mg IVP/IO. (See chart SOP) Repeat every 3-5 min. as long as CPR needed
* After 2 min of CPR; pause compressions (<10 sec); ✓ rhythm (IVR) & capnography; change compressor. * If electrical activity: ✓ pulse (no pulse)		Assess temp & glucose as time allows
*Immediately resume CPR starting w/ chest compressions at 100/min for 2 min.		Consider NaHCO <sub>3</sub> 1 mEq/kg IV/IO if arrest caused by bicarb -responsive acidosis (DKA/tricyclic antidepressant, ASA OD, cocaine or diphenhydramine) or known hyperkalemia.
<b>Return of spontaneous circulation (ROSC):</b> Assess for post-arrest shock. Support ABCs; follow appropriate SOP to support BP w/ UNWARMED NS 10-20 mL/kg IVP and NOREPINEPHRINE as needed. Avoid hyperthermia & hyperglycemia.		

**Notes on good CPR:**

- Push hard (Approx. 1/3 to 1/2 depth of chest) and fast (100); over lower 1/2 of sternum (1-adolescent) or just below nipples (infant); ensure full chest recoil; minimize interruptions in chest compressions (≤ 10 sec)
- Continue CPR while defibrillator is charging and drugs are prepared & given.
- Interrupt chest compressions only for ventilations (until advanced airway placed), rhythm check & shock delivery.
- Rotate person providing compressions every 2 minutes during ECG rhythm checks
- Pts should not be moved while CPR is progress unless in a dangerous environment or pt is in need of intervention not immediately available. CPR is better and has fewer interruptions when resuscitation is conducted where the pt. is found.

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**  Competent: Satisfactory entry-level performance without critical error; minimal coaching needed  
 Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

**Comments:**

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Preceptor (Print name / signature)

**NWC EMSS Skill Performance Record**  
**REMOVAL of CHILD from CAR SEAT for SPINE MOTION RESTRICTION**

Name #1:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #2	2nd attempt:    #1: [    ] Pass [    ] Repeat
Date	#2: [    ] Pass [    ] Repeat

**Instructions:** A child presents with possible spine trauma following an MVC. Prepare the equipment and remove the child from the car seat and place them in spine motion restriction on a peds spine board.

Performance standard	Attempt 1 rating	Attempt 2 rating
1. Step omitted (or leave blank) 2. Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 3. Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Equipment needed</b> <input type="checkbox"/> Backboard/scoop stretcher of appropriate size <input type="checkbox"/> Peds cervical collar <input type="checkbox"/> Towel rolls and/or appropriate size <input type="checkbox"/> Min. 2 rescuers <input type="checkbox"/> Straps for board/scoop <input type="checkbox"/> Heavy-duty scissors		
<b>Prepare the patient</b> *Apply manual c-spine motion control while keeping child as calm as possible; limit head and neck motion.		
Remove car seat padding from sides of the pt's head and neck if possible. If padding cannot be removed push into the seat as best as possible.		
<b>To remove or loosen the harness:</b> <input type="checkbox"/> Unbuckle 5 point harness & remove from limbs. If seat has a removable clip or bar type device at the back for the harness system; remove so harness can be slipped out of the shoulder slots. If this is difficult, cut the straps with heavy-duty scissors. <input type="checkbox"/> To loosen harness, check for tightening/loosening tabs at bottom of seat. Infant carriers may have a tightening clip on back of seat. If manipulating the straps causes movement of the pt or is difficult, cut the straps.		
Place car seat at foot of the backboard/scoop stretcher. Tip seat backwards onto the device (child's torso flat; legs upward). The child should look as if a chair was tipped over and he or she is laying flat in the chair, with the back of the chair on the board (photo 1).		
<input type="checkbox"/> 1 <sup>st</sup> rescuer positions self at child's head. Slide hands along each side of child's head until the hands are behind the child's shoulders. Support head and neck laterally with rescuer's arms (photo 2). <input type="checkbox"/> 2 <sup>nd</sup> rescuer controls child's body.		
The rescuer at head performs a 3 count. At count of 3, the child is slid upward out of the car seat onto the board/scoop and immobilized per usual procedure (photo 3)		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 12/16

Preceptor (PRINT NAME – signature)



**NWC EMSS Skill Performance Record**  
**SECURING PEDIATRIC PATIENT: ACR4**

Name #1:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #2	2nd attempt:    #1 <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date	#2 <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** Prepare the equipment and secure a child to a stretcher using the ACR4.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank) 1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique 2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
<b>Equipment needed*</b> <input type="checkbox"/> Stretcher <input type="checkbox"/> ACR4 straps and harnesses <input type="checkbox"/> Child or manikin		
<b>Prepare the patient*</b> <input type="checkbox"/> Measure child with Broselow tape if size unknown <input type="checkbox"/> Explain to child/caregiver what you intend to do and each step as it is done.		
<b>Prepare the equipment*</b> Position 4 harness straps on stretcher frame. Place blue straps to desired position of patient and pass buckle through loop to secure to the frame. (Premark strap position for various sizes on stretcher)		
<input type="checkbox"/> Select appropriate size device (Extra small 4-11 lbs, Small 11-26 lbs, Medium 22-55 lbs, Large 44-99 lbs <input type="checkbox"/> To attach harness, lay ACR on cot and secure using 4 buckles, ensuring straps are not taut and harness is not twisted		
<b>Perform procedure*</b> Place patient on top of flat, open harness. One rescuer holds child in place and engages w/ child.		
Release chest strap. Fit shoulder straps. Reconnect quick release chest strap.		
Feed straps through 'D' rings. White marker on strap must pass through 'D' ring and be visible. After straps are fed through 'D' rings, press hook and loop firmly together, ensuring correct position of white marker indicating minimum hook and loop contact area		
Fit and engage waist straps - Press firmly together. Pull waistband over and close hook and loop. Make sure hook and loop are correctly aligned and slide 3 fingers under harness to ensure it is not attached too tightly.		
Peel back outer waistband leaving inner attached.		
Position crotch pad centrally, close and engage upper strap, pressing firmly together, ensuring the markers (A-B) have a sufficient hook and loop engagement in the contact area.		
<input type="checkbox"/> Tighten the 4 harness straps ensuring patient remains central on the ambulance cot. <input type="checkbox"/> Secure the patients legs with the stretcher strap if larger child		
<b>General information:</b> <input type="checkbox"/> <i>If the device becomes contaminated, how should it be cleaned?</i> (Machine washable) <input type="checkbox"/> <i>Can patient be transitioned quickly from sitting to flat or to the recovery position?</i> (Yes) <input type="checkbox"/> <i>Can the device be used with the stretcher back rest in the raised position?</i> (Yes)		
<b>Critical errors</b> <input type="checkbox"/> Failure to confirm that pt is secured properly <input type="checkbox"/> Failure to manage pt as a competent paramedic <input type="checkbox"/> Exhibits unacceptable affect with patient or other personnel <input type="checkbox"/> Uses a dangerous adaptation of appropriate securing procedure		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice





**NWC EMSS Skill Performance Record  
DRESSING & BANDAGING**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
Apply PPE (gloves)			
Determine location of the wound and expose injured area (cut away clothing as appropriate, preserving evidence as necessary)			
Inspect wound for size, type, depth, nature (arterial/venous), amount and type of bleeding, debris, & foreign bodies. Remove loose debris or F/B.			
Remove all jewelry from the injured area and distally			
Select appropriate size dressing			
Open dressing using sterile technique and place over the wound site. Apply direct pressure with hand over the dressing.			
Secure dressing with a bandage, using roller gauze, wrapping distally to proximally. If a limb, leave fingertips or toes exposed to check distal neurovascular status. Secure the bandage with tape.			
Assess pain and consider need for pain medication; apply cold pack to reduce swelling.			
Note the rate at which a dressing becomes saturated with blood and apply additional pressure or consider need for more aggressive hemorrhage control			

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**

- Competent: Satisfactory entry-level performance without critical error; minimal coaching needed
- Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

Comments \_\_\_\_\_

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Preceptor (Print name / signature)

**NWC EMSS Skill Performance Record**  
**HEMORRHAGE CONTROL –Tourniquet Use**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

<b>Performance standard</b>	<b>Attempt 1 rating</b>	<b>Attempt 2 rating</b>
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
* Apply PPE		
<b>Assess for nature of bleeding:</b> <input type="checkbox"/> Type <input type="checkbox"/> Source <input type="checkbox"/> Amount <input type="checkbox"/> Rate		
Apply direct digital pressure using palm of hand over a single layer sterile dressing placed over wound unless contraindicated (deep open skull wound)		
<b>Bleeding persists:</b> (Direct pressure ineffective or impractical; wound not amenable to tourniquet e.g. trunk, groin, neck, head or other location where a tourniquet cannot be used) <input type="checkbox"/> Cover entire bleeding surface; including deep areas of wound with QuikClot dressing <input type="checkbox"/> Apply direct pressure over dressing <input type="checkbox"/> If blood soaks through 1 <sup>st</sup> layer, apply a 2 <sup>nd</sup> <input type="checkbox"/> Once bleeding stops, apply pressure bandage to hold dressing in place. <input type="checkbox"/> Do not remove blood-soaked bandages from wound, may cause more bleeding		
<b>Severe extremity bleeding</b> Verbalize need for a tourniquet <input type="checkbox"/> * Mangled extremity; amputation <input type="checkbox"/> * Arterial bleed <input type="checkbox"/> * Direct pressure ineffective or impractical; hemostatic dressing ineffective in hemostasis		
Prepare equipment and explain procedure to patient.		
<b>Procedure for CAT® tourniquet</b> Route band around extremity 2-3 cm proximal to the wound/injury and pass free-running end through inside slit of the buckle. Do NOT apply tourniquet over a joint. If wound is over a joint or just distal to a joint, apply tourniquet just proximal to the joint. Do NOT apply over a fracture.		
Pass band back through the outside slit of the buckle. This uses the Friction Adaptor Buckle which will lock band in place. Pull the band tight and securely fasten the band back on itself		
*Twist the Windlass Rod™ until bleeding has stopped and/or distal pulse is absent. Lock rod with the clip: Bleeding should be controlled. Secure rod with the strap.		
If bleeding continues, place 2 <sup>nd</sup> tourniquet proximal to 1 <sup>st</sup>		
*Reassess extremity; ensure bleeding has stopped. Tourniquet should be visible/well marked (time applied). Do NOT obscure with clothing or bandages. Continue reassessment enroute. Do NOT release tourniquet until patient reaches definitive care.		
<b>Assess need for pain management:</b> If hemodynamically stable – fentanyl per SOP		
<b>Documentation</b> (verbalize) <input type="checkbox"/> MOI: Blunt, penetrating <input type="checkbox"/> Site of tourniquet application: arm, leg; R or L <input type="checkbox"/> Measures used prior to tourniquet application <input type="checkbox"/> Time tourniquet applied <input type="checkbox"/> Who applied and/or removed tourniquet <input type="checkbox"/> Success of hemorrhage control <input type="checkbox"/> Total tourniquet time in minutes <input type="checkbox"/> Whether pt required pain meds d/t tourniquet pain <input type="checkbox"/> Tourniquet-related complications if known: ischemia damage, compartment syndrome		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice



**NWC EMSS Skill Performance Record**  
**APPLICATION of a rigid C-COLLAR**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**NOTE: Never apply traction to neck or spine**

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
*Assesses need for spine motion restriction: Positive MOI and/or + PE findings; unreliable patients with + or uncertain MOI			
*RESCUER #1 provides manual splinting of head/neck as found (in neutral alignment if possible)			
*Assess/open/maintain airway, ventilations & gas exchange			
<b>Select and prepare equipment</b>			
*Rescuer #2: Use fingers to measure key dimension for proper collar sizing (imaginary line from top of shoulder where collar will sit to bottom plane of chin)			
*Rescuer #2: Apply key dimension to the collar by aligning fingers with the bottom edge of the plastic neck band. Select sizing window closest to the height of the stacked fingers. Adjust chin piece until the markers are visible in both windows of the chosen size collar. Press tab locks on both sides of collar to secure.			
Rescuer #2: Pre-form collar by flexing end w/o strap inward to triangular trach hole			
<b>Collar application</b>			
*PT SITTING: Rescuer #2: Apply collar by sliding chin support up the chest wall until collar is placed under the chin. Pt's chin should at least cover the central fastener.			
*Rescuer #2: Secure collar by using the trach hole as an anchor point. Gently pull posterior portion around back of neck and secure Velcro tab.			
*Position pt on long spine board without moving spine.			
*PT SUPINE: Rescuer #2: Slide back of collar under the neck. Position chin piece and fasten Velcro as above.			
*Lift onto long board with a scoop stretcher; position in center of board.			
<b>Both positions:</b>			
<input type="checkbox"/> Heavy or bulky clothing takes up extra space beneath the collar. If this clothing is removed, the patient should be resized for an appropriately fitting collar			
<input type="checkbox"/> *Pad occiput to keep head and neck in neutral alignment; apply lateral immobilizers.			
*Secure pt to long board with straps across shoulders, hips, knees			
<b>Verbalize the following: The collar should not</b>			
<input type="checkbox"/> impede mouth opening or airway clearance.			
<input type="checkbox"/> obstruct airway passages or breathing.			
<input type="checkbox"/> be loose as to allow the chin to sink below the collar chin piece.			

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**     Competent: Satisfactory entry-level performance without critical error; minimal coaching needed  
 Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

**Comments:** \_\_\_\_\_

\_\_\_\_\_  
Preceptor (Print name / signature)

**NWC EMSS Skill Performance Record**  
**KENDRICK EXTRICATION (Vest-Type) DEVICE (KED)**

Name #1:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #2	2nd attempt:    #1: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date	#2: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
Assesses pain, SMV in all extremities & need for extrication and spine motion restriction			
<b>*Verbalize at least 2 contraindications</b> to use of KED or vest-type device: <input type="checkbox"/> Unstable pt. or scene w/ possible spine injury. (use rapid extrication) <input type="checkbox"/> A vest-type device could cause hypoventilation in a pt w/ dyspnea <input type="checkbox"/> Reliable pt. w/ uncertain or neg MOI w/ normal neuro exam			
*Rescuer #1 Apply manual stabilization to head and neck *Rescuer #2 Correctly size and apply c-collar			
Rescuer #2 Prepare KED for insertion behind patient			
*Rescuer #2: Slip body portion of KED behind pt. w/ smooth side towards pt's back. Straighten KED so pt. is centered in device and head support is behind head.			
Move leg straps down from stored position			
*Bring chest flaps around pt. Fasten middle strap first. (*MBLHT)			
Position firmly under armpits by using lift handles on side of unit			
*Fasten bottom chest strap next			
*Bring leg straps under buttocks; cross over to opposite side and secure into device unless contraindicated. Pad groin as needed.			
*Adjust head pad to fill gap between head and head support			
*Bring head flap forward and secure with straps over forehead and under chin piece of c-collar			
Release manual stabilization			
*Secure top chest strap last Check all straps for snugness before moving patient			
<input type="checkbox"/> *Place foot end of long spine board next to pt's buttocks, perpendicular to pt. Pivot pt. parallel to the board <input type="checkbox"/> *Lift pt slightly onto board and position supine maintaining axial alignment. Keep knees bent during position change.			
Once supine, disengage leg straps and lower legs to board; may loosen chest straps to ensure adequate ventilations			
*Secure pt & KED to the long board with straps			
Reassess spine pain, SMV in all extremities			

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**     Competent: Satisfactory entry-level performance without critical error; minimal coaching needed  
 Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

**Comments:** \_\_\_\_\_

\_\_\_\_\_  
Preceptor (Print name / signature)

\* MBLHT (My baby looks hot tonight helps recall the order of strap application: middle, bottom, legs, head, top)

**NWC EMSS Skill Performance Record  
HELMET REMOVAL**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**NOTE: Never apply traction to neck or spine**

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
<input type="checkbox"/> *Rescuer#1: Kneel at pt's head, apply manual stabilization by palming each side of helmet & curling fingertips over helmet's lower edge so thumbs are on pt's mandible and index fingers are on the occipital ridges. <input type="checkbox"/> *Rescuer #2: Position at pt's side near shoulder			
<input type="checkbox"/> *Perform primary assessment while patient supine w/ helmet in place <input type="checkbox"/> *Remove chin strap or face shield if more direct access required for airway assessment <input type="checkbox"/> *If airway/ventilations adequate; immobilize w/ helmet (pads) in place using tape and blanket roll and padding as necessary to maintain axial alignment			
<b>State indications for procedure:</b> <input type="checkbox"/> *Helmet fails to hold head securely (loose-fitting) <input type="checkbox"/> *Helmet/face shield prevent airway control even after removal of face shield <input type="checkbox"/> Helmet has a face shield that cannot be removed within a reasonable period of time <input type="checkbox"/> Helmet prevents proper immobilization for transport			
<b>State contraindications for procedure:</b> Untrained personnel unless obvious airway impairment evident & failure to remove helmet would compromise patient			
If pt awake, explain the procedure. Instruct pt not to attempt to help or to move. (Assess & document SMV status prior to procedure).			
If helmet has snap-out ear protectors, pry them loose with a tongue blade and remove. If helmet has an inflatable pad, DO NOT decompress air bladder until after the next step.			
*Rescuer #2: Place one hand on mandible: thumb on one side and the long and index fingers on the other. Place other hand under base of occiput under the helmet and maintain axial alignment.			
If helmet has an inflatable air bladder, deflate bladder with an air pump needle while the Rescuer #2 continues to hold C-spine motion restriction. Detach any other removable padding to make helmet easier to remove.			
*If no inflatable air bladder: Rescuer #1 should reach inside helmet & spread sides away from pt's head and ears while gently pulling and tilting helmet upward slightly, clearing pt's nose. As helmet comes over the occiput, it may be necessary to tilt the helmet FORWARD slightly about 30° following curvature of pt's head. Remove helmet by carefully pulling it in a straight line.			
*Rescuer #2: Maintain in-line stabilization throughout the process to prevent c-spine motion. Slide hand under neck upwards as helmet is removed to provide occipital support and prevent head from falling back once helmet is removed.			
After removal, apply padding under head to maintain neutral position. Apply a c-collar and lateral immobilization and secure pt. to long board with straps.			
Assess pain and SMV in all extremities after procedure.			

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**     Competent: Satisfactory entry-level performance without critical error; minimal coaching needed  
 Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

**Comments:** \_\_\_\_\_

**NWC EMSS Skill Performance Record**  
**SLING and SWATHE**

Name:	1st attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
Apply PPE (gloves)			
Expose injured area (cut away clothing as appropriate, preserving evidence as necessary)			
Assess need for splint: pain, deformity, motor deficit, paresthesia, pallor, and/or pulselessness of injured shoulder, clavicle, or arm. Compare injured to uninjured side.			
Remove all jewelry & clothing from injured areas and distal extremity			
Cover all open wounds w/ sterile dressings per hemorrhage control SOP			
Consider need for fentanyl and benzodiazepine prior to splinting			
Apply gentle support and stabilization to the fracture/dislocation site while applying sling			
Place padding between arm and chest in axillary area			
Fold forearm of injured side across chest, with hand slightly elevated toward opposite shoulder			
Place <b>triangular bandage</b> under and over arm with point at elbow and two ends tied around the neck. Knot should be to the side of the neck.			
Envelope wrist and most of hand in the sling. Hand and wrist should not be able to drop out of sling. Keep fingers exposed to check neurovascular status. Keep hand and wrist slightly elevated.			
Pin or tie point end of a triangular bandage to form a cup for the elbow			
<b>Alternative approach:</b> Apply commercially available sling by inserting forearm into the sleeve and securing the strap (at the elbow) behind the shoulder and forward around the opposite side of the neck to attach to the hand portion of the sling. The sling straps should not hang forward in front of the neck on both sides.			
Reassess motor, sensory, and circulatory integrity of injured extremity after splinting to compare injured to uninjured sides			
Wrap a wide cravat or roller gauze around injured arm and body as a swathe to pull shoulder back and secure injured arm to body			
Transport in a sitting position			
Apply cold pack to reduce swelling			

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

- Recommendation:**
- Competent: Satisfactory entry-level performance without critical error; minimal coaching needed
  - Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

Comments \_\_\_\_\_

\_\_\_\_\_  
Preceptor (Print name / signature)

**NWC EMSS Skill Performance Record**  
**RIGID SPLINTS**

Name:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
<b>State purpose of splinting</b> <input type="checkbox"/> Reduce pain <input type="checkbox"/> Stabilize injury; provide substitute support <input type="checkbox"/> Facilitate transfer and transport <input type="checkbox"/> Prevent/minimize skin laceration; motion of broken bone ends; damage to muscle, nerves; restriction of distal blood flow; excessive bleeding			
<b>Prepare/assess patient</b> Explain procedure to pt *Completely expose the injured area (limb)			
*Assess need for splint and distal motor & neurovascular function prior to moving injured area: pain, position, paralysis or motor deficit, paresthesia, pallor, pulselessness, pressure. Compare injured to uninjured side.			
*Remove jewelry on affected limb. Secure w/ pt belongings. If unable to remove a ring with soap/lubricant, cold or string, consider a ring cutter.			
*Offer pain/antispasmodic meds before splinting if not contraindicated			
<input type="checkbox"/> *If angulated long bone fx with SMV impairment: apply gentle traction to both bone ends and attempt to realign. Constant firm pressure; NO jerky movements <input type="checkbox"/> If resistance encountered or pt c/o severe pain – STOP. Splint in position of deformity <input type="checkbox"/> Splint joint injury as found			
*Cover all open wounds w/ sterile dressings; hemostasis per ITC SOP			
<b>Prepare equipment:</b> *Select a splint that immobilizes one joint above and one joint below a suspected fx.			
Pad splint or wrap limb distally to proximately with Webril if available. Overlap each layer by ½ the width. Smooth out creases. Apply extra padding to fill voids and over bony prominences. Omit step if using prepped splint.			
<b>Perform procedure – Generalized approach – adapt to device</b> <input type="checkbox"/> *Manually support site & minimize movement until splint is applied & secured <input type="checkbox"/> *Apply splint per manufacturer's recommendations w/ minimal mvmt. of limb <input type="checkbox"/> Splint knees straight unless injured or angulated <input type="checkbox"/> If forearm injury, have pt hold (flex fingers over) a bandage wrap. Flex elbow to 90° if possible. Extend wrist to 20°; abduct thumb and flex finger joints to 70°.			
*Secure by fastening Velcro straps or w/ bandage or ACE wrap. Do not tape circumferentially (allow pressure relief).			
*Reassess distal motor & neurovascular integrity after splinting. Instruct pt to alert you if they experience numbness, color change, increasing pressure or pain.			
<input type="checkbox"/> *If possible; elevate injured extremity above level of heart <input type="checkbox"/> Apply cold pack over injury site unless contraindicated			

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**  Competent: Satisfactory entry-level performance without critical error; minimal coaching needed  
 Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

Comments \_\_\_\_\_



**NWC EMSS Skill Performance Record**  
**VACUUM SPLINTS**

Name #1:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #2:	2 <sup>nd</sup> attempt:    #1: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	#2: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
<b>Prepare/assess patient</b> Assess need for splint: Swollen, painful or deformed extremity or possible spine injury			
<b>Advantage</b> of vacuum splints: Angulated fractures can be splinted as found as opposed to fitting them into a preformed splint			
Inform patient about the procedure			
*Expose injured area; remove all clothing, jewelry and secure w/ pt belongings Remove any sharp or bulky items that may injure pt or damage the splint			
*Compare and note motion, sensation and circulation proximal & distal to injury			
*Cover open wounds with sterile dressings			
Offer pain/antispasmodic medications if not contraindicated			
<b>Prepare equipment:</b> Select appropriate size splint			
*Lay splint out flat, with all straps open and inner surface that will touch patient's skin (face up). May need to pad splint if using on frail skin.			
*Check integrity of splint: rigidity will be compromised due to a leak or tear in splint or if valve is damaged or open			
<b>Perform procedure – Generalized approach – know your device</b> *Gently elevate and support area of injury as splint is placed beneath, then around injured limb, or use a scoop stretcher to place pt into a body mattress splint (maintain spine alignment)			
Wrap splint around sides of limb, or lift edges of mattress to conform around contour of pt, starting at the head; secure with straps (chest, hips, legs)			
*Attach vacuum pump to splint and evacuate air until the splint feels firm and solid Splint should be rigid, conforming to the shape of the limb or body			
Close off vacuum valve and disconnect pump			
Ensure that splint does not shrink too much and become too tight when air is removed Readjust straps as necessary			
*Reassess pain; motor, sensory and circulatory integrity distal to the injury			
May place pt on a long spine board, scoop stretcher for transport if indicated (vacuum mattress may take place of spine board)			
<b>Monitor for cautions:</b> <input type="checkbox"/> Loss of vacuum will soften the splint and cause loss of immobilization <input type="checkbox"/> Vacuum splints can make motor, sensory and neurovascular checks difficult			

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**     Competent: Satisfactory entry-level performance without critical error; minimal coaching needed  
 Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

**NWC EMSS Skill Performance Record**  
**APPLICATION of a PELVIC SPLINT**

Name #1:	1 <sup>st</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Team repeat
Name #2:	2 <sup>nd</sup> attempt:    #1: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	#2: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
<b>Prepare/assess patient</b> Assess hemodynamic stability and need for splint: possible pelvic fracture <input type="checkbox"/> Blood at urinary meatus <input type="checkbox"/> Scrotal swelling/hematoma			
Verbalize no contraindications in emergent setting except open fracture			
Inform patient about the procedure			
Compare and note motion, sensation and circulation distal to injury			
Provide pain medication if not contraindicated			
<b>Prepare equipment:</b>			
Select appropriate size splint (KED)			
<b>Perform procedure – Generalized approach – know your device</b> Gently slide sheet or pelvic splint under patient from the feet up to the level of the greater trochanters without rocking the patient			
Draw ends of the sheet or pelvic splint together and create circumferential tension to stabilize the pelvis; ensure that splint is not too tight			
Place padding between legs, secure feet together			
Reassess motor, sensory and circulatory integrity distal to the injury			
Use scoop stretcher or vacuum body mattress to place pt on stretcher			

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

CJM 12/16

\_\_\_\_\_  
Preceptor (PRINT NAME – signature)



**NWC EMSS Skill Performance Record  
SCOOP STRETCHER**

Name:	1st attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**NOTE: Never apply traction to neck or spine**

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
State indications: Pt requires selective spine precautions and/or movement to the stretcher			
<b>State contraindication:</b> Pt size exceeds capacity of device			
<b>Prepare scoop stretcher</b> <input type="checkbox"/> Adjust stretcher to length of pt; turn lock pegs where the stretcher narrows to open sliding mechanism <input type="checkbox"/> Pull the bottom of stretcher out to desired length <input type="checkbox"/> Lock back into place by turning lock pegs in opposite direction (will hear a distinct click when it locks in place)			
* Open mechanism at top and bottom of stretcher to separate into right & left halves			
<b>Prepare the patient</b> Explain process to patient			
<input type="checkbox"/> Position pt supine unless contraindicated (impaled object on posterior of body) <input type="checkbox"/> Hold axial alignment and apply C-collar if indicated			
Fold patient's arms across chest			
<b>Procedure</b> * Slide one stretcher half beneath pt on each side, taking care not to pinch skin or clothing. Use a gentle see-saw motion to get each side under pt.			
* Lock stretcher back together at head and foot			
<input type="checkbox"/> Properly position head support & lateral immobilization; pad as necessary <input type="checkbox"/> Secure pt to scoop stretcher with straps over shoulders, chest, pelvis & knees			
* Bring ambulance stretcher close to pt; put side rails down; lock wheels			
* Note: Scoop stretchers replace need for long spine boards for most pts. See System memo #349.			
* Lift scoop stretcher by end-carry method			
* Lower scoop stretcher gently onto stretcher			
* Secure patient to stretcher with straps per procedure			
* Reassess patient			

**Scoring:** All steps must be independently performed in sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the student to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Recommendation:**     Competent: Satisfactory entry-level performance without critical error; minimal coaching needed  
 Did not perform in correct sequence, timing, and/or without critical error; recommend additional practice/repeat skill assessment.

Comments \_\_\_\_\_

\_\_\_\_\_  
Preceptor (Print name / signature)

**NWC EMSS Skill Performance Record**  
**START & JUMP START PRIMARY TRIAGE**

Name:	1st attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions: The paramedic shall use the START triage system to initially categorize patients for priority movement to the triage sector.**

Performance standard	Performs w/o coaching	Performs w/ coaching	Needs additional practice
<b>START PRIMARY TRIAGE</b>			
Use appropriate BSI			
Ask pts who can to walk to move to a safe designated area. If can walk: Tag GREEN			
<b>Respiratory status</b>			
* Assesses respirations <input type="checkbox"/> If no respirations: open airway <input type="checkbox"/> If breathing does not resume: tag deceased and move on <input type="checkbox"/> If breathing resumes with airway maneuver: Tag RED (immediate) <input type="checkbox"/> If breathing present - check rate. If >30 Tag RED <input type="checkbox"/> If rate <30 - check perfusion			
<b>Perfusion</b>			
* <b>Assess radial pulse</b> <input type="checkbox"/> If pulse absent or cap refill > 2 sec: tag RED; control bleeding <input type="checkbox"/> If radial pulse present or cap refill <2 sec: check mental status			
<b>Mental status</b>			
*If pt cannot follow simple commands tag RED			
If pt follows simple commands tag YELLOW (delayed)			
<b>JUMP START TRIAGE SYSTEM</b>			
Use appropriate BSI			
* If patients are able to walk: tag MINOR and send to secondary triage			
* If patients cannot walk assess for breathing <input type="checkbox"/> If breathing: assess respiratory rate: If <15 or >45 tag RED <input type="checkbox"/> If no breathing: open airway – breathing resumes tag RED <input type="checkbox"/> If apneic - check for a pulse. If absent tag BLACK (Deceased) <input type="checkbox"/> If pulse present - give 5 rescue breaths, if remains apneic tag BLACK (Deceased) <input type="checkbox"/> If breathing resumes - tag RED (Immediate)			
* If respiratory rate is 15-30 per min. - check pulse <input type="checkbox"/> if pulse absent - tag RED (Immediate) <input type="checkbox"/> If pulse present assess AVPU <input type="checkbox"/> If AVPU is inappropriate or unresponsive - tag RED (Immediate) <input type="checkbox"/> If AVPU is appropriate - tag YELLOW (Delayed)			

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
- Competent:** Satisfactory performance without critical error; minimal coaching needed.
- Practice evolving/not yet competent:** Did not perform in correct sequence, timing, and/or without prompts, reliance on procedure manual, and/or critical error; recommend additional practice

**NWC EMSS Skill Performance Record**  
**RESTRAINTS**

Date:	EMS Agency		
Name:		<input type="checkbox"/> Pass	<input type="checkbox"/> Re-education
Name:		<input type="checkbox"/> Pass	<input type="checkbox"/> Re-education
Name:		<input type="checkbox"/> Pass	<input type="checkbox"/> Re-education
Name:		<input type="checkbox"/> Pass	<input type="checkbox"/> Re-education
Name:		<input type="checkbox"/> Pass	<input type="checkbox"/> Re-education

**Instructions:** Use this checklist in conjunction with Policy E-1, the NWC EMSS Procedure: Use of Restraints and the NWC EMSS SOPs. Each system EMT, Paramedic, and PHRN must have their competency measured using this checklist at least every two years. Randomly ask questions requiring a verbal response of all team members.

Performance standard	Yes	No
<p><b>State 2 observations that should be made during the scene size-up if a pt appears agitated or violent</b></p> <input type="checkbox"/> Inspect for bottles, drugs, letter, notes, toxins <input type="checkbox"/> Ask bystanders about recent behavioral changes <input type="checkbox"/> Confer with law enforcement if applicable; determine the patient's condition prior to EMS arrival		
<p>Verbalize that EMS personnel must perform a primary assessment</p>		
<p><b>*State at least 3 assessments that must be performed to determine decisional capacity</b></p> <input type="checkbox"/> Consciousness <input type="checkbox"/> Speech <input type="checkbox"/> Affect/mood <input type="checkbox"/> Orientation <input type="checkbox"/> Activity <input type="checkbox"/> Thought processes <input type="checkbox"/> Memory <input type="checkbox"/> Perception		
<p><b>List at least 3 elements that indicate a behavioral emergency with a possibility of violence:</b></p> <input type="checkbox"/> Combative <input type="checkbox"/> Shouting <input type="checkbox"/> Pacing <input type="checkbox"/> Punching or kicking <input type="checkbox"/> Apparent anger		
<p><b>Define physical restraint</b> (May paraphrase): Direct application of force to an individual without the person's permission to restrict freedom of movement.</p>		
<p><b>*Give 2 examples of patients on whom restraints might be needed</b></p> <input type="checkbox"/> DAI intubation <input type="checkbox"/> Controlled access for medical procedures <input type="checkbox"/> Anticipation of improved patient condition producing combativeness <input type="checkbox"/> Cardiac arrest patient with ROSC attempting extubation <input type="checkbox"/> Patient is combative/uncooperative and poses an imminent risk to self, others, or property <input type="checkbox"/> Transport of non-decisional or suicidal patient against their will		
<p><b>*State at least 3 medical or psychological causes of threatening behaviors.</b></p> <input type="checkbox"/> Hypoxia <input type="checkbox"/> Neurologic disease (stroke, seizures, intracerebral bleed, dementia) <input type="checkbox"/> Substance abuse/OD <input type="checkbox"/> Metabolic disorders (hypoglycemia)		
<p><b>State at least 2 general types of restraint:</b> May be human, material, mechanical devices, drugs or a combination</p> <input type="checkbox"/> Verbal de-escalation <input type="checkbox"/> Physical <input type="checkbox"/> Chemical		
<p><b>*State at least 1 example of a soft restraint</b></p> <input type="checkbox"/> Roller gauze <input type="checkbox"/> Sheets/blankets <input type="checkbox"/> Chest Posey		
<p><b>*State at least one example of a hard restraint</b></p> <input type="checkbox"/> Velcro limb restraints <input type="checkbox"/> Plastic ties <input type="checkbox"/> Leather restraints		
<p><b>State one example of a forensic restraint</b> (Handcuffs)</p>		
<p><b>State who is responsible for a prisoner in handcuffs</b> (Arresting law enforcement officer)</p>		
<p><b>State what an officer must give to EMS personnel if a prisoner is in handcuffs and they follow the ambulance in the police vehicle</b> (Handcuff key)</p>		
<p><b>*Verbalize 2 approved positions for a prisoner being transported in handcuffs behind their back</b></p> <input type="checkbox"/> Seated <input type="checkbox"/> On their side		
<p><b>Verbalize two civil torts (wrongs) that prehospital providers can be accused of if restraints are incorrectly or inappropriately applied</b>   <input type="checkbox"/> False imprisonment   <input type="checkbox"/> Assault/battery</p>		

Performance standard	Yes	No
<b>State a Federal allegation that may be brought due to improper restraint use</b> <input type="checkbox"/> Violation of civil rights under the Constitution		
<b>Application of 4 point restraints</b>		
<b>*State at least 5 general guidelines regarding application of restraints</b> <input type="checkbox"/> Use proper size for patient <input type="checkbox"/> Use correct product to prevent patient injury <input type="checkbox"/> Secure straps to spine board or stretcher part that moves w/ pt <input type="checkbox"/> Secure straps out of patient's reach <input type="checkbox"/> Use quick release ties for non-Velcro restraints <input type="checkbox"/> Follow infection control guidelines for cleaning restraints <input type="checkbox"/> Must be informed restraint *		
<b>*State at least 2 steps to prepare a patient for restraint application</b> <input type="checkbox"/> Remove all jewelry from areas to be restrained <input type="checkbox"/> Expose area to assess limb SMV <input type="checkbox"/> Provide as much privacy as possible		
<b>State the minimum number of rescuers needed to apply restraints to a violent pt. (4-5)</b>		
<b>*Prepare equipment</b> (2 wrist; 2 leg restraints)		
Plan the approach to the patient		
Demonstrate application of 4 point restraints with team members		
<b>*Take patient safely down to a prone position</b>		
<b>*One person should control each limb by grasping clothing and large joints</b>		
<b>*Adjust patient to a supine or side-lying position as soon as EMS has control of patient's movements (on backboard preferred).</b> <b>Auto-Repeat:</b> Patient left supine and hogtied		
<b>*Restrain 1 arm at side and other above head; both legs to stretcher</b>		
<b>*Place stretcher straps over bony prominences, criss-crossed over chest, pelvis, legs</b> <b>Auto-Repeat:</b> Straps cinched across neck, chest, abdomen or compromised airway/ventilations		
<b>*Reassess SMVs in all 4 extremities</b>		
<b>*How often must VS, airway patency, and neurovascular status be reassessed while patient is restrained?</b> At least every 15 minutes		
<b>*Verbalize how to recognize improperly applied restraints and how to resolve the situation immediately.</b> <input type="checkbox"/> Patient can move or thrash about <input type="checkbox"/> Release/reapply one limb at a time		
<b>*State at least 3 signs of physical distress in individuals who are being held or restrained</b> <input type="checkbox"/> Shortness of breath <input type="checkbox"/> Reduced/absent pulse distal to restraint <input type="checkbox"/> Inability to speak <input type="checkbox"/> Cool/pale limb distal to restraint <input type="checkbox"/> Hypoxia <input type="checkbox"/> Hyperthermia <input type="checkbox"/> Pain due to restraint <input type="checkbox"/> Cardiac dysrhythmia; unstable VS <input type="checkbox"/> Soft tissue injury		
<b>*Who must provide authorization for restraints either before or after their application?</b> On-line medical control physician		
<b>Under what circumstances are EMS personnel authorized to remove restraints once applied?</b> Patient is reassessed to be fully decisional and cooperative and EMS personnel receive orders from on-line medical control to discontinue restraint.		
<b>What steps may EMS personnel take if a patient is biting or spitting at them?</b> Apply a c-collar and place a surgical or oxygen mask over the patient's face or use the TranZport hood		
<b>Special populations</b>		
<b>Who must accompany a child in restraints?</b> Responsible adult		
<b>How can one compensate for an elderly adult's loss of sight or hearing?</b> Reassuring physical contact		
<b>What special accommodations must be made for hearing impaired persons whose primary mode of communication is sign language?</b> Hands must be freed for brief periods unless freedom may result in physical harm		
<b>*To whom must EMS personnel report a death of a patient while in handcuffs?</b> EMS MD <b>Within what time frame?</b> 2 hours		



**NWC EMSS Skill Performance Record**  
**POST-TASER EMS PROCEDURE**

Name:	1st attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat
Date:	2 <sup>nd</sup> attempt: <input type="checkbox"/> Pass <input type="checkbox"/> Repeat

**Instructions:** An adult has been subdued by law enforcement personnel using a taser. Please examine the patient and verbalize any treatment that you should provide.

Performance standard	Attempt 1 rating	Attempt 2 rating
0 Step omitted (or leave blank)		
1 Not yet competent: Unsuccessful; required critical or excess prompting; marginal or inconsistent technique		
2 Successful; competent with correct timing, sequence & technique , no prompting necessary		
Scene size up: Confer with police; determine pt's condition before, during & after taser discharge		
Perform a primary assessment <input type="checkbox"/> SpO <sub>2</sub> monitor <input type="checkbox"/> ECG monitoring for potential cardiac dysrhythmias <input type="checkbox"/> 12 I ECG if: S&S that could be cardiac in nature, is elderly, history of CVD or drug use		
<b>Secondary assessment.</b> VS; <input type="checkbox"/> Hyperthermia <input type="checkbox"/> Volume depletion <input type="checkbox"/> Tachycardia <input type="checkbox"/> Metabolic acidosis		
Determine SAMPLE history: date of last tetanus prophylaxis cardiac history; ingestion of mind altering stimulant (PCP, cocaine). Tased individuals can have injury or illness that occurs before they are tased and/or injury when they are tased and fall		
ITC: Supportive care <input type="checkbox"/> Apply/maintain restraints if needed <input type="checkbox"/> IV NS to correct volume depletion if present		
Severe anxiety and SBP ≥ 90 (MAP ≥ 65): MIDAZOLAM 2 mg increments slow IVP q. 2 min (0.2 mg/kg IN) up to 10 mg titrated to response. If IV unable/IN contraindicated: IM 5-10 mg (0.1-0.2 mg/kg) max 10 mg single dose. All routes: may repeat to total of 20 mg prn if SBP ≥ 90 (MAP ≥ 65) unless contraindicated. If hypovolemic, elderly, debilitated, chronic dx (HF/COPD); and/or on opiates or CNS depressants: ↓ total dose to 0.1 mg/kg.		
Assess for <b>excited delirium:</b> State of agitation, excitability, paranoia, aggression <input type="checkbox"/> Great strength <input type="checkbox"/> Numbness to pain <input type="checkbox"/> Violent behavior		
Rx excited delirium/ violent, severe agitation: KETAMINE 2 mg/kg slow IVP (over 1 min) or 4 mg/kg IN/IM. May repeat at ½ dose after 10 min up to Max of 4 mg/kg (500 mg). Use w/ caution in pts with schizophrenia, psychosis, or bipolar mania		
Identify location of probes: DO NOT remove if in face, neck, groin, spinal column		
<b>Removal of probe:</b> If not contraindicated, probes may be removed. Place one hand over area where probe is embedded; stretch skin around puncture site. Place other hand firmly around probe.		
In one movement, pull probe straight out from the puncture site. Apply direct pressure over wound with a sterile 4X4. Repeat with additional probes.		
If probe becomes disengaged, handle as a sharp & dispose of removed probes in a designated sharps container. Check with local law enforcement to see if they require that probes be kept as evidence.		
Cleanse puncture sites and bandage as appropriate		
If patient has not had tetanus immunization in the last 5 yrs, advise to acquire it		
Transport for further evaluation		
If pt is decisional and refuses treatment and/or transport, advise to seek medical attention immediately if they experience any abnormal S or S. Provide disclosure of risk and obtain signature on refusal form. Contact OLMC from point of patient contact.		

**Scoring:** All steps must be independently performed in correct sequence with appropriate timing and all starred (\*) items must be explained/ performed correctly in order for the person to demonstrate competency. Any errors or omissions of these items will require additional practice and a repeat assessment of skill proficiency.

**Rating: (Select 1)**

- Proficient:** The paramedic can sequence, perform and complete the performance standards independently, with expertise and to high quality without critical error, assistance or instruction.
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