

SECTION II

2012

FIRST AID

RULES

2012 FIRST AID CONTEST RULES

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Section II

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RULES GOVERNING THE 2012 NATIONAL FIRST AID CONTEST

First Aid rules were designed as a training tool for first aid teams. They were developed for contest purposes only. Discretion should be used in actual mine emergency situations.

1. Members of First Aid Teams must be bona fide employees of the mining industry. Teams shall furnish their own recording manikin, and all other materials listed in G-C Miscellaneous.
2. A team shall consist of two members and a patient. A team shall not use the same patient for multiple teams. Bystander(s) may only assist in supporting, lifting, or moving the patient. If the problem requires a bystander(s), they will be provided. Bystander(s) will be positioned at the field and will be identified as a bystander with labels or name tags and Body Substance Isolation BSI precautions will be in place. If a patient is used as a bystander teams must provide BSI precautions prior to patient contact. Each team shall work one skill station problem and one first aid problem and the score shall be combined to determine the team's final standings. The skill station problem will only utilize the following skill sheets; One Person CPR (Manikin Only), Two-Rescuer CPR (No Spinal Injury-Manikin Only), Two-Rescuer CPR (With Spinal Injury - Manikin Only), Mouth-to-Mouth Resuscitation, Air-way Obstruction (Manikin Only) (Victim Loses Conscious), Air-Way Obstruction (Unconscious Victim-Witnessed.) A team shall work two problems and the scores shall be combined to determine the team's final standings.
3. Each team entering the contest will draw a number to determine the order of the performance at the time of registration. With the exception of the recording manikin, teams will not be allowed to share equipment. Teams sharing equipment-recording manikins must notify the registrar upon registration, so that these teams will not be working at the same time and enough time is allowed for inspection of equipment prior to second team using the equipment.
4. Each participating team must be under guard before the start of the contest. Any team or team member receiving information concerning a contest problem prior to arriving at the working area will, be disqualified by the Chief Judge and Director.
5. No practicing will be allowed on the field before the beginning of the Contest. No reference books or training material will be permitted in the working area during the working or reading of the problems.

6. Only designated officials will be allowed to communicate with teams while teams are working.

~~7.~~All Procedures shall be performed in the order listed: Skill sheets supersede First Aid Rules which supersede Brady First Responder ~~eight~~ **ninth** Edition by Bergeron and Le Baudour.

7.

8. Contest officials will designate 2 stations, one for skill station problem and one for first aid problem. For the working of the first aid problem a spaces (15 feet by 15 feet - minimum) will be designated for teams to work. All equipment (~~except manikin~~) will be kept behind a baseline designated by a Contest Official. All problems will be worked in the designated area which shall contain only the judges, bystanders/patients and the contesting teams. ~~The manikin will be located within the designated space. Teams will be escorted to the skill station to complete the skills problem, once completed the team will be escorted to the first aid station to complete the first aid problem.~~

~~9.All team members and patient shall be dressed alike. Shoes need not be identical. The patient may wear shorts even if the team members are wearing pants. The pants and shorts shall be the same color.~~

~~10.9.~~ The Timekeepers shall explain to the team the timing devices used. Judges will require a signature and team number on the sample CPR tape at this time the skill station. (Check shallow breaths, ~~deep~~, and shallow compressions).

~~11.10.~~ Problems will be kept in unsealed envelopes, retained by the judges, and given to the team after the timing device has been started. Judges shall place the patient in the required position as stated in the problem to be worked.

~~a.The team's material and equipment (jump kits, splints, etc.) may not be assembled or donned (excluding BSI) until after the timing device is started. The manikin may be placed in the designated area prior to starting the timing device.~~

~~b.a.~~ The working time for a problem will start when the team starts the timing device.

~~e.b.~~ If props are to be utilized during the working of the problem, such props must be readily available to the working teams and in working condition. These props must be identified by the judges to the team members prior to starting the timing device and must be located within

the designated working area. Props will not be utilized in lieu of first aid equipment for treatment of patient(s). Props will be limited to items related to communication and mechanism of injury for effects unless skill sheets are provided. Props shall be within the application of the skill sheets used for treatment of the injury/conditions.

A barrier device must be used when contacting manikin. The face masks/shields may be removed when the team is required to give artificial ventilation, CPR, inflating splints, etc.

12.11. Injuries/conditions requiring treatment will be identified by cards, envelopes or labels attached to the patient at or as near the location of the injury as possible on the outside of the clothing, be identified by simulated wounds, or be in the reading of the problem. Signs, symptoms or mechanisms of injury may be used. If signs and symptoms are used, all signs and symptoms shall be identified by cards, envelopes or labels placed on patient. All signs and symptoms will be given to the teams in writing. Wounds that are listed in the reading of the problem shall also be placed on patient. (Exception: If the wound is on the eyelid or an impaled object in the eye, the label will NOT be placed on the eye, but in an obvious area near the eye.)

During the initial or patient assessment, teams may find an envelope attached to the patient(s) or be provided an envelope by the judges which contains patient information that needs immediate attention. If repositioning of patient(s) is required for treatment, patient(s) must be placed in the proper position prior to treatment. Upon completion of treatment of these conditions, the initial or patient assessment will be resumed at the point where team left off. The patient(s) will already be marked upon arrival of the team.

~~Since spinal stabilization must be taken as outlined in Initial Assessment, spinal injuries will be stated in the reading of the problem and not marked on the patient. Sucking chest wounds and life-threatening bleeding shall be stated in the reading of the problem and shall be marked on the patient.~~

13.12. Lettering on the cards and/or labels will be at least 1/4-inch in height.

Example: **2-INCH WOUND ON FOREHEAD**

14.13. The problem will end and teams will stop the timing device when all conditions have been located, treated, and work area has been cleaned. The

timekeeper/judge must time the problem in minutes and seconds and consult with the team upon completion of the problem to verify the time.

~~15.14.~~ After stopping the timing device, ~~the team will inform the judges that the patient is ready for inspection.~~ ~~Team team~~ members will remain with the patient(s) until released by the judges. Any physical treatment(s) not performed, i.e. bandage, splint will be pointed out to team at this time.

~~16.15.~~ The calculated time will be determined by Contest Officials by averaging the working time of all teams participating in the Contest (1 discount per 3 minute overtime or fraction thereof).

~~17.16.~~ The accumulation of individual discounts within a procedure shall not exceed the discounts for failure to perform that procedure. (Example AV, CPR, etc.)

A. Written Examination

1. During isolation, contest officials will give the written exam to the two working team members. The written examination will be ten statements of fact taken verbatim from the contest rules. The answers will be multiple choice with four choices. Team members will select A, B, C, or D by circling the complete answer.

Example:

1. As a member of the EMS team, your primary role is one of:

a. Patient care.

b. Safety.

c. Transport.

d. Documentation.

A maximum of fifteen minutes will be allowed for the team members to take the test.

2. Team members taking the written examination will not be permitted to take any written material or information into the testing area.

3. There will be no discussion during the time that written examinations are being taken.

AB. Ties

In the event of ties in the contest, Scorecard A (First Aid Procedures and Critical Skills) discounts will be the first tie breaker, Scorecard B (AV/CPR) discounts will be the second tie breaker, Scorecard C (written exam) will be the third tie breaker and actual working time, in minutes and seconds, of the team will be the ~~third~~ fourth tie breaker.

BC. Miscellaneous

Teams will be notified by posting when they may review their score cards. Within one hour of posting, team members and trainer shall report to a designated location. Once notified, team members and the trainer shall have 20 minutes for reviewing each problem, the judge's skill sheets and scorecards to prepare any protest. All protests shall be in writing and shall state the discount in question, the scorecard involved, and their reference proof in the rule book or Brady book to support their protest or the protest will not be considered. All protests will be considered by the Final Appeals Committee. A decision by the Final Appeals Committee is binding and final. Protest sheets will be furnished to the teams by the Judges for the recording of rules infractions or discounts assessed to teams. Judges shall remain available until released.

MATERIALS LIST

Participants will be required to furnish their own materials. Teams must provide the minimum equipment. Listed below is the minimum equipment required. Problems will be designed utilizing no more than the minimum material list. For contest purposes, all bandaging materials will be considered sterile.

- 24 Triangular Bandages
- 6 Adhesive compresses
- 24 Sterile gauze, (4" x4") and/or 4" Compresses
- 6 Roller Bandages
- ~~23~~ Blankets
- 1 Scissors, EMT Utility
- 6 Pairs of Examination Gloves
- 2 Mask/face shields or masks and goggles combination meeting blood borne pathogen requirements
- 2 Heat Pack - Simulated
- ~~24~~ Cold packs - Simulated

- 2 Oval Eye Pads
 - 1 Pen and paper set
 - 1 Elevating device
 - 1 Recording manikin
 - 2 Barrier devices with one-way valve for performing AV/CPR
 - 1 White bag (i.e. plastic garbage bag)
 - 1 Compliment of splints (may be pre-padded but not assembled)
 - 1 Long back board with straps (Aluminum, Wood, etc.)
 - 2 Air splints (1 full arm and 1 full leg)
 - 1 Packet Sugar/Tube Instant Glucose (for Diabetic Purposes)
 - 1 Adhesive Tape
 - 1 Burn Sheet, Sterile (40" x 80" minimum)
 - 1 Rigid Extrication Collar
 - 4 Trauma Dressings (minimum of 10" X 30")
 - 1 Eye Shield/Cup
 - 1 Pen Light
 - ~~2~~ 4 Tourniquets
 - 2 Towels
 - 1 Pillow
 - ~~1~~ 4 Occlusive Dressing
 - 2 Sticks, Wooden Dowels or equivalent
 - 1 Watch/Timing Device
 - 1 Headset (long spine board)
 - 1 500 ml sterile water
- Compliment of Straps for Long Spine Board (buckle straps, spider straps, etc.)

Problems will be designed from the ~~Revised~~ Skill Sheets approved by the Rules Committee. Teams will be required to triage the accident scene (first aid problem).
Problems may have up to three patients at the scene.

Manikins will be furnished by teams for performing procedures and critical skills pertaining to all ventilation problems, cardiac arrest problems. Signal boxes on manikins will be covered during the working of the problem. NOTE: Live patients will **not** be used in any CPR or ventilation problems.

Under no circumstances will videotape recordings or photos be introduced as supplementary material for consideration of the appeal.

Guidelines for skills sheet discounts:

1. The team is required to call for help/call 911, once during the working of the problem. This statement must be made prior to starting triage.

2. Each critical skill identified with an asterisk (*) shall be clearly verbalized by the team as it is being conducted.
3. After initially stating what DOTS stands for; Deformities, Open Wounds, Tenderness, and Swelling, the team may simply state "DOTS" when making their checks.
4. After initially stating what CSM stands for; Circulation, Sensation and Motor Function, the team may simply state "CSM" when making their checks.
5. After initially stating what AVPU stands for; Alert, Verbal, Painful, Unresponsive, the team may simply state "AVPU" when making their checks.
6. If an injury requires a back board, the team may continue to the next area to be treated once all injuries not requiring the backboard have been treated or treatment started.
7. The collar for a skull fracture and/or brain injuries, will be applied after the neck has been examined and treatment completed if required.
8. Except for slings required for treatment for fractures or dislocation, slings may be applied anytime during the working of the problem prior to stopping clock. (This includes slings for fractured ribs). Factory or Triangular slings may be used. No sling required when using a full arm splint, arm should be secured to the body.
9. For injuries requiring splinting, any acceptable splint may be used. Factory splints, wooden splints, air splints, sam splints, etc.
10. Prior to stopping the clock, the team must reassess the patient's level of consciousness, respiratory status and patient response.
11. Teams must make statement to judge, "Removing clothing, exposing and cleaning wound surface(s)". This statement is only required to be made once during the working of the problem, prior to treating first wound.

SCORECARD A DISCOUNTS

1. Violations of general rules not covered on scorecards. ___ 5 each infraction

2. All life-threatening conditions shall be located and started before patient assessment can begin. ___ 20

⊖ Life threatening conditions will be considered a patient having any one or more of the following conditions: breathing difficulties, no pulse, spinal injury, skull fracture, a sucking chest wound or life threatening bleeding)

Patient assessment can begin after all life-threatening conditions have been located and treatment started. Environmental and Medical Emergencies can be treated anytime during the working of the problem after initial assessment.

2.3. When the team encounters life-threatening bleeding, no work other than controlling bleeding shall be done until bleeding is controlled. Bleeding is controlled when notified by the Judge (judge makes a statement that bleeding is controlled). If treatment has been started and one team member can complete that treatment, the other team member may continue to work. ___ 10 each infraction

3.4. During the course of the problem, teams may encounter a card, envelope or label stating various conditions. Upon completion of treatment of these conditions, resume patient assessment at the point where team left off. _____ 5 each infraction

4.5. Patient cannot talk, direct, or assist unless stated in the problem. (Reactionary or unintentional movements by the patient should not be discounted) ___ 5 each infraction

5.6. The bystander must be shown the correct method of support. ___ 2

The bystander must be shown the correct method of support and maintaining the open airway by a team member or members any time during the working of the problem, but before taking support.

7. No practicing will be allowed on the field before the beginning of the Contest. No reference books or training material will be permitted in the working area during the working or reading of the problems. _____ 5

8. All team members and patient shall be dressed similarly. Shoes need not be identical. The patient may wear shorts even if the team members are wearing pants. The pants and shorts shall be the same color. ___ 1

The team's material and equipment (jump kits, splints, etc.) may not be assembled or donned (excluding BSI) until after the timing device is started. The manikin may be placed in the designated area prior to starting the timing device.
___ 5

7.9. Handling of a patient by a team or team member in such a manner that could compromise condition of the patient. Examples: Mishandling extremities, etc.)
___ 5 each infraction

8.10. All injuries and/or conditions shall be treated (example: wound, fracture, frostbite). ___ 20 each infraction

9.11. Preassembly of material. ___ 5

10.12. Failure to perform a required critical skill. Each CRITICAL SKILL shall be performed as identified on the skill sheets. ___ 2 each infraction

11.13. During patient assessment, failure to verbally state the location physically examined and each condition found. ___ 1 each infraction

12.14. Working out of order (assessment, procedure, critical skill). ___ 2

Low Priority Delayed

Teams will systematically conduct the patient assessment according to procedures of the patient assessment skill sheet. Each area of the body shall be examined in its entirety prior to treating injuries in that area (except taking support). All injuries must be treated on the area being examined prior to moving to the next area to be examined. The sling for fractured ribs may be applied after upper extremity has been surveyed/treated. If treatment has been started and can be completed by one team member (except injuries requiring a backboard), the other team member may continue the examination to the next area and begin treatment. (Systemically, legs are treated before the arms.)

High Priority Immediate

Teams will systematically conduct initial assessment, treating all life-threatening injuries/conditions. When one or more of the conditions listed in rule 24 is encountered the team will perform a rapid patient assessment according to the patient assessment skill sheet. To perform a rapid patient assessment, teams will examine each area of the body in its entirety, verbalizing critical skills and injuries/conditions found. No treatment is required for non life-threatening conditions/injuries found during the rapid patient assessment. If transportation is delayed patient treatment will continue until transportation is available.

Patient is then prepared for transport and/or transported as required by written problem. To prepare for transportation, a team will be required to properly place and secure a patient on a backboard as outlined in the skill sheets, cover with a blanket and lift patient from the floor. After the patient has been lifted from the floor, the team will verbalize - "transporting patient".

~~13.15.~~ Failure to follow written instructions. ____5

~~14.16.~~ Teams shall not pad around the head and neck of the patient, for a suspected spinal injury, before the patient is placed onto the backboard. ____ 1

~~15.17.~~ Teams shall tuck the tails of bandages. ____1 (discount only one (1) point when three or more tails of bandages are not tucked)

~~16.18.~~ All material (~~except manikin~~) shall be placed behind baseline prior to stopping the timing device. After completing the problem the work area shall be cleaned of ALL material (~~except manikin~~), including the infectious waste, which shall be placed in a white trash bag provided by the team. When all materials have been placed behind baseline, a team member shall stop the timing device. The judges and First Aid team will verify the working time upon completion of the problem. ____1

~~17.19.~~ Protective equipment must be donned prior to patient(s) contact (gloves, masks, and eye protection - eyeglasses are acceptable). Only BSI may be donned prior to starting the timing device. ____5 each infraction

~~18.20.~~ Gloves shall be changed if there would be contamination because of a glove tear or due to other contamination (such as contacting multiple patients). For contest purposes only, gloves must be changed if there would be provider contamination because of a glove tear. ____2 each infraction (~~New glove may be placed over original glove~~)

19-21. The broken-back board splint may be preassembled and padded. Other splints may be pre-padded but not assembled. (Cravat bandages cannot be preassembled on the back board, except for tying padding.) ___5

20-22. Failure to take support of a fracture or dislocation (not supporting fracture or dislocation)._____10

- Support of Extremities – Above and below the fracture or dislocation
- Support of Hip – Both sides of the fracture or dislocation
- Support for spinal injury – Stabilization of neck/Modified Jaw Trust
- Support for skull fracture – Stabilization of neck/Modified Jaw Trust
- No support for fractured ribs,
- No support of fractures/dislocations of nose, jaw, fingers, and toes

21-23. Support of fractures and/or dislocations shall not be broken or released. ___5

When changing support, if support is broken, this discount applies. Change of support can be done as many times as the team desires provided the support is not broken.

Support for upper extremity fractures/dislocations shall be maintained until the sling is completed. Discount if support of fracture and/or dislocation is released by support person before sling is completed.

Sling and swath not required with air splints.

22-24. Fractures/dislocations shall be supported prior to bandaging injuries. Once the extremity has been assessed, fractures/dislocations must be supported prior to bandaging injuries on the extremity. ___5

During initial and patient assessment, teams must physically support/stabilize fractures and dislocations that require support as they are found. When the fracture/dislocation is on an extremity and support has been taken, the team must complete the examination on the extremity treating other injuries prior to splinting the fracture/dislocation.

23-25. Not applying sling for upper extremity wound. ___1

Triangular slings are required for all wounds of upper extremities, including shoulder and armpit wounds. Slings will not be required for upper extremity burns/deep cold injuries. However, if a burn/deep cold injury and wound and/or fracture/dislocation are present on the same upper extremity, a sling

shall be applied. Slings will be applied on upper extremities with injuries after all injuries of the extremity have been treated. ~~Slings are not required when the extremity is supported/secured by an air splint or full arm splint.~~

~~2426.~~ Failure to determine ~~high priority patients~~ immediate patients. ____ 10

An ~~high priority patient~~ immediate patient shall be transported immediately. This presents a load and go situation.

____ ~~High priority conditions~~ Immediate conditions are:

- Respirations: >30 respirations per minute
- Perfusion: Capillary refill > 2 seconds or radial pulse absent
- Mental Status: Unable to follow commands ~~unresponsiveness, breathing difficulties, life threatening bleeding or severe shock, chest pain, no pulse, spinal injury, skull fracture, a sucking chest wound and any severe abdominal, pelvic or spinal pain.~~ Any one or more of the above conditions must be clearly visible on the patients chest. ~~stated in the reading of the problem or written information presented to the team during the working of the problem.~~

~~2527.~~ Failure to start timing device. __ 2 discounts

**INTERPRETATIONS OF SCORECARD B
ARTIFICIAL VENTILATION/CARDIOPULMONARY RESUSCITATION**

1. Failure to determine unresponsiveness (according to Critical Skill Sheet). ___1
2. Failure to call for help. ___1
3. Failure to open airway. ___1
4. Failure to use proper maneuver to open airway (using head-tilt/chin-lift maneuver when jaw-thrust should be used, vice versa). ___1
5. Failure to assess breathlessness within 10 seconds. ___1
6. Failure to use one-way valve barrier device when ventilating manikin. ___1
7. ~~Failure to give initial 2 breaths~~ Failure to state "get AED if available". ___1
~~a. Volume shall be at least .8 liters (through .7 liter line on new manikins). Over inflation shall not be discounted. ___1~~
8. Failure to use mouth-to-nose ventilation when required. ___1
9. Failure to keep body and head in line, if spinal injury exists. ___1
10. Failure to use tongue jaw lift, cross-finger technique, or finger sweep when required. ___1
11. Failure to reposition head when airway obstruction is suspected. ___1
12. Failure to give ~~abdominal thrusts or chest thrusts~~ chest compressions when required. (airway obstruction skill sheet) ___1
13. Failure to check pulse prior to giving compressions. ___1
14. Failure to assess pulse for 5-10 seconds. ___1
15. Failure to correctly locate the carotid pulse. ___1
16. Failure to verbalize absence of pulse. ___1

Cardiopulmonary Resuscitation

1. Failure to give AV/CPR when required. ___20
(Maximum of 3 sets AV/CPR or combination thereof)
2. Failure to locate landmark for giving compressions. ___1
- ~~a.3.~~ Failure to make parallel axis with heels of hands. ___1
- ~~b.4.~~ Allowing fingers to rest on chest. ___1
- ~~e.5.~~ Compressions. Discounts shall apply to each set.
 - a. Timing. 30 compressions shall be delivered within ~~23~~18 seconds. ___1
 - b. Depth. Compression depth shall ~~be between the~~break the two lines for 60-80 pounds pressure. Over compressions shall not be discounted. ___1
 - c. Number required. A total of 30 compressions shall be made each cycle. ___1
 - d. Release of upstroke. The release line shall be straight. ___1
 - e. Rate. Compressions shall be made at the rate of (at least) 100 per minute. 1
1
- ~~a.6.~~ Failure to maintain hand contact with manikin when releasing pressure during compressions. ___1 (This does not apply between cycles).
- ~~b.7.~~ Failure to give 2 breaths between each cycle of compressions. ___1
 - a. Timing (not completing breaths and returning to compressions in ~~4-7~~less than 10 seconds (This will be measured from the end of last down stroke to the start of the first down stroke of the next cycle.) ___1
 - ~~a.b.~~ Volume shall be at least .8 liters (through .7 liter line on new manikins). Over inflation shall not be discounted. ___1
8. Failure to give 5 cycles of 30 compressions and 2 breaths for each set of CPR (point of first down stroke to peak of last breath). (A cycle is 30 compressions and two (2) ventilations. A set is 5 cycles.) ___1

9. Failure to assess pulse within 10 seconds after each set of CPR. ___1 (one discount per set)
10. Failure to give ~~five (5) abdominal thrusts~~ 30 chest compressions when airway obstruction is suspected. ___1
11. Failure to perform CPR as stated in the problem. Too many or too few compressions can be detrimental to patient. ___1
12. Failure for the number of Rescuer/Rescuers to perform CPR as stated in the problem. Team performing One-Person CPR when Two-Person CPR is required and vice versa. ___ 3 (When problem states "Two-Rescuer CPR", two people are required to perform CPR as listed in Two-Rescuer CPR skill sheets.)
13. Failure to begin with compressions after pulse check is completed or when changing rescuers. ___1
14. Failure of rescuers to change positions in 5 seconds or less when performing two-person CPR. ___1
15. Failure of rescuer to state that patient has a pulse when CPR is completed. ___1

Artificial Ventilation

1. Failure to give artificial ventilation. _____ 20
(Maximum of 3 sets AV/CPR or combination thereof)
2. Failure to give 10-12 breaths in each 58-62-second period. ___1
(1 minute of AV = 1 set)
3. Failure to provide a breath volume of at least .8 liters (through .7 liter line on new manikins). Over inflation shall not be discounted. _____ 1
4. Failure of rescuer to check for return of breathing and pulse when artificial ventilation is completed. ___1
5. Failure of rescuer to state that patient is breathing and has a pulse when artificial ventilation is completed. ___1

INITIAL ASSESSMENT

PROCEDURES		CRITICAL SKILL
1. SCENE SIZE UP	<input type="checkbox"/> <input type="checkbox"/>	*A. Observe area to ensure safety *B. Call for help
2. MECHANISM OF INJURY	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	*A. Determine causes of injury, if possible *B. <u>Triage: Immediate, Delayed, Minor or Deceased.</u> *C. Ask patient (if conscious) what happened
3. INITIAL ASSESSMENT	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	*A. Verbalize general impression of the patient(s) *B. Determine responsiveness/level of consciousness (AVPU) Alert, Verbal, Painful, Unresponsive *C. Determine chief complaint/apparent life threats
4. ASSESS AIRWAY AND BREATHING	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. Correctly execute head-tilt/chin-lift or jaw thrust maneuver, depending on the presence of cervical spine (neck) injuries B. Look, listen, and feel for breathing (3-5 seconds) C. If present, treat sucking chest wound
5. ASSESS FOR <u>CIRCULATION</u> <u>IMMEDIATE LIFE</u> <u>—THREATENING</u> <u>—CONDITIONS</u>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. Check for presence of a carotid pulse (5-10 seconds) B. If present, control life threatening bleeding C. Start treatment for all other life threatening injuries/conditions (reference Rule 2).

HIGH PRIORITY:IMMEDIATE: Rapid Patient Assessment treating all life threats Load and Go. If the treatment interrupts the rapid trauma assessment, the **assessment** will be completed at the end of the **treatment**.

LOW PRIORITYDELAYED: Detailed Patient Assessment treating all injuries and conditions and prepare for transport.

MINOR: Detailed Patient Assessment treating all injuries and conditions and prepare for transport. After all IMMEDIATE and DELAYED patient(s) have been treated and transported.

DECEASED: Cover

NOTE: Each critical skill identified with an asterisk (*) shall be clearly verbalized by the team as it is being conducted. After initially stating what DOTS stands for, the team may simply state "DOTS" when making their checks.

- Teams may use the acronym "PMSCSM" when checking circulation, sensation, and pulse, motor function, and sensory function

PATIENT ASSESSMENT

PROCEDURES			CRITICAL SKILL	
1. HEAD	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		*A. Check head for DOTS: Deformities, Open wounds, Tenderness and Swelling *B. Check and touch the scalp *C. Check the face *D. Check the ears for bleeding or clear fluids *E. Check the eyes for any discoloration, unequal pupils, reaction to light, foreign objects and bleeding *F. Check the nose for any bleeding or drainage *G. Check the mouth for loose or broken teeth, foreign objects, swelling or injury of tongue, unusual breath odor and discoloration	
2. NECK	<input type="checkbox"/> <input type="checkbox"/>		*A. Check the neck for DOTS *B. Inspect for medical ID	
3. CHEST	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		*A. Check chest area for DOTS *B. Feel chest for equal breathing movement on both sides *C. Feel chest for inward movement in the rib areas during inhalations	
4. ABDOMEN	<input type="checkbox"/>		*A. Check abdomen (stomach) for DOTS	
5. PELVIS	<input type="checkbox"/> <input type="checkbox"/>		*A. Check pelvis for DOTS *B. Inspect pelvis for injury by touch (Verbally state inspection of crotch and buttocks areas)	
6. LEGS	L	R	<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"/>	*A. Check each leg for DOTS B. Inspect legs for injury by touch C. Unresponsive: Check legs for paralysis (pinch inner side of leg on calf) *D. Responsive: Check legs for motion; places hand on bottom of each foot and states "Can you push against my hand?" *E. Check for medical ID bracelet

7. ARMS	L	R	*A. Check each arm for DOTS B. Inspect arms for injury by touch C. Unresponsive: Check arms for paralysis (pinch inner side of wrist) *D. Responsive: Check arms for motion (in a conscious patient; team places fingers in each hand of patient and states "Can you squeeze my fingers?" *E. Check for medical ID bracelet
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
8. BACK SURFACES	<input type="checkbox"/>		*A. Check back for DOTS

~~**DOTS: Deformities, Open Wounds, Tenderness and Swelling**~~

~~**NOTE:** Each critical skill identified with an **asterisk (*)** shall be clearly verbalized by the team as it is being conducted. After initially stating what DOTS stands for, the team may simply state "DOTS" when making their checks.~~

- ~~**•Teams may use the acronym "PMS" when checking pulse, motor function and sensory function**~~

ONE-PERSON CPR (MANIKIN ONLY)

PROCEDURES	CRITICAL SKILL
1. ESTABLISH UNRESPONSIVENESS	<ul style="list-style-type: none"> <input type="checkbox"/> A. Tap or gently shake shoulders <input type="checkbox"/> *B "Are you OK?" <input type="checkbox"/> C. Determine unconsciousness without compromising possible cervical spine (neck) injury <input type="checkbox"/> *D. "Call for help" <input type="checkbox"/> *E. <u>"Get AED if available" (Note: If AED is used, follow Local protocol)</u>
2. ESTABLISH AIRWAY	<ul style="list-style-type: none"> <input type="checkbox"/> A. Kneel at the patient's side near the head <input type="checkbox"/> B. Correctly execute head-tilt/chin-lift or jaw thrust maneuver depending on the presence of cervical spine injuries
3. MONITOR PATIENT FOR BREATHING	<ul style="list-style-type: none"> <input type="checkbox"/> A. Look, listen, and feel for breathing <u>Look for absence of breathing (no chest rise and fall) or gasping, which are not considered adequate</u> (within 10 seconds)
4. VENTILATION PATIENT	<ul style="list-style-type: none"> <input type="checkbox"/> A. Place barrier device (pocket mask/shield with one-way valve) on manikin <input type="checkbox"/> B. Give 2 breaths 1 second each <input type="checkbox"/> C. Each breath minimum of .8 liters (through .7 liter line on new manikins)
5. PULSE CHECK	<ul style="list-style-type: none"> <input type="checkbox"/> A. Correctly locate the carotid pulse - on the side of the rescuer, locate the patient's windpipe with your index and middle fingers and slide your fingers in the groove between the windpipe and muscle in the neck <input type="checkbox"/> B. Check for presence of carotid pulse for <u>5</u> to 10 seconds <input type="checkbox"/> *C. Absence of pulse
6. POSITION FOR COMPRESSIONS	<ul style="list-style-type: none"> <input type="checkbox"/> A. Locate the compression point on the breastbone between the nipples <input type="checkbox"/> B. Place the heel of one hand on the compression point and the other hand on top of the first so hands are parallel <input type="checkbox"/> C. Do not intentionally rest fingers on the chest <input type="checkbox"/> D. Keep heel of your hand on chest during and between compressions

<p><u>75.</u> DELIVER CARDIAC COMPRESSION</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>A. Give 30 compressions B. Compressions are at the rate of <u>at least</u> 100 per minute (30 compressions delivered within <u>23 18</u> seconds) C. Down stroke for compression must be on or <u>through between</u> compression lines <u>(at least 23 out of 30)</u> D. Return to baseline on upstroke of compression <u>(at least 23 out of 30)</u></p>
<p><u>6. ESTABLISH AIRWAY</u></p>	<input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Kneel at the patient's side near the head</u> <u>B. Correctly execute head-tilt/ chin-lift or jaw thrust Mmaneuver depending on the presence of cervical Sspine injuries</u></p>
<p><u>7. VENTILATIONS BETWEEN COMPRESSIONS</u></p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Place barrier device (pocket mask / shield with one way valve) on manikin</u> <u>A-B.</u> Give 2 breaths 1 second each <u>B-C.</u> Each breath - minimum of .8 (through .7 liter line on new manikins) <u>C-D.</u> Complete breaths and return to compressions in <u>4-7 less than 10</u> seconds (This will be measured from the end of last down stroke to the start of the first down stroke of the next cycle.)</p>
<p><u>98.</u> CONTINUE CPR FOR TIME STATED IN PROBLEM</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>A. Provide 5 cycles of 30 chest compressions and 2 rescue breaths B. To check for pulse, stop chest compressions for <u>5- no more than</u> 10 seconds after the first set of CPR C. Rescuer opens airway and <u>looks, listens, and feels checks</u> for adequate breathing or coughing <u>A-D.</u> _____ rescuer checks for a carotid pulse <u>D-E.</u> If no signs of circulation are detected, continue chest compressions and breaths and check for signs of circulation after each set <u>E-F.</u> A maximum of 10 seconds will be allowed to complete ventilations and required pulse checks between sets (this will be measured from the end of the last down stroke to the start of the first down stroke of the next cycle)</p>
<p><u>109.</u> CHECK FOR RETURN OF PULSE</p>	<input type="checkbox"/> <input type="checkbox"/>	<p>A. After providing required CPR (outlined in problem), check for return of pulse (within 10 seconds)</p>

		*B. "Patient has a pulse."
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~~NOTE: Each critical skill identified with an asterisk (*) shall be clearly verbalized by the team as it is being conducted. After initially stating what DOTS stands for, the team may simply state "DOTS" when making their checks.~~

- ~~• Teams may use the acronym "PMS" when checking pulse, motor function and sensory function~~

TW0-RESCUER CPR (NO SPINAL INJURY - MANIKIN ONLY)

PROCEDURES	CRITICAL SKILL
1. RESCUER 1 - ESTABLISH UNRESPONSIVENESS	<input type="checkbox"/> A. Tap or gently shake shoulders <input type="checkbox"/> *B. "Are you OK?" <input type="checkbox"/> C. Determine unconsciousness without compromising cervical spine (neck) injury <input type="checkbox"/> *D. "Call for help" <input type="checkbox"/> *E. <u>"Get AED if available" (Note: If AED is used, follow local protocol)</u>
2. RESCUER 1 - ESTABLISH AIRWAY	<input checked="" type="checkbox"/> A. Kneel at the patient's side near the head <input checked="" type="checkbox"/> B. Correctly execute head-tilt/chin-lift maneuver
3. RESCUER 1 - MONITOR PATIENT FOR BREATHING	<input checked="" type="checkbox"/> A. Look, listen, and feel for breathing <u>Look for absence of breathing (no chest rise and fall) or gasping breaths, which are not considered adequate</u> (within 10 seconds)
4. RESCUER 1 - VENTILATE PATIENT	<input checked="" type="checkbox"/> A. Place barrier device (pocket mask/shield with one-way valve) on manikin <input checked="" type="checkbox"/> B. Give 2 breaths 1 second each <input checked="" type="checkbox"/> C. Each breath - minimum of .8 (through .7 liter line on new manikins)
53. RESCUER 1 - CHECK FOR CAROTID PULSE	<input type="checkbox"/> A. Correctly locate the carotid pulse - on the side of the rescuer, locate the patient's windpipe with your index and middle fingers and slide your fingers in the groove between the windpipe and the muscle in the neck <input type="checkbox"/> B. Check for presence of carotid pulse for 5 to 10 Seconds <input type="checkbox"/> *C. Absence of pulse
64. RESCUER 2 - POSITION FOR COMPRESSIONS	<input type="checkbox"/> B. A. <u>Locate the compression point on the breastbone between the nipples</u> <input type="checkbox"/> A. B. Place the heel of one hand on the compression point and the other hand on top of the first so hands are parallel. Do not intentionally rest fingers on the chest. Keep heel of your hand on chest during and between compressions.

<p>75. RESCUER 2 - DELIVER CARDIAC COMPRESSION</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>B.A. _____ G ive 30 compressions A.B. Compressions are at the rate of <u>at least</u> 100 per minute (30 compressions delivered within 23 <u>18</u> seconds) B.C. Down stroke for compression must be on or <u>through between</u> compression lines (at least 23 out of 30) C.D. Return to baseline on upstroke of compression (at least 23 out of 30)</p>
<p>6. RESCUER 1 ESTABLISH AIRWAY</p>	<input type="checkbox"/> <input type="checkbox"/>	<p>A.A. <u>Kneel at the patient's side near the head</u> B. <u>Correctly execute head-tilt/ chin-lift maneuver</u></p>
<p>87. RESCUER 1 - VENTILATIONS BETWEEN COMPRESSIONS</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>A. <u>Place barrier device (pocket mask / shield with one way valve) on manikin</u> A.B. Give 2 breaths 1 second each B.C. Each breath - minimum of .8 (through .7 liter line on new manikins) C.D. Complete breaths and return to compressions in <u>4-7 less than 10</u> seconds (This will be measured from the end of last down stroke to the start of the first down stroke of the next cycle.)</p>
<p>98. CONTINUE CPR FOR TIME STATED IN PROBLEM</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>D.A. _____ Provide 5 cycles of 30 chest compressions and 2 rescue breaths A.B. To check for pulse, stop chest compressions for <u>5-no more than</u> 10 seconds after the first set of CPR B.C. Rescuer at patient's head maintains airway and <u>looks, listens, and feels checks</u> for adequate breathing or coughing C.D. The rescuer at the patient's head shall feel for a carotid pulse D.E. If no signs of circulation are detected, continue chest compressions and breaths and check for signs of circulation after each set E.F. A maximum of 10 seconds will be allowed to complete ventilations and required pulse checks between sets (this will be measured from the end of the last down stroke to the start of the first down stroke of the next cycle)</p>
<p>109. CHANGING RESCUERS</p>	<input type="checkbox"/>	<p>A. Change of rescuers shall be made in 5 seconds or less and will be completed as outlined in the problem. Team must switch every 5 cycles in less than 5 seconds.</p>
<p>110. CHECK FOR RETURN OF PULSE</p>	<input type="checkbox"/> <input type="checkbox"/>	<p>A. After providing required CPR (outlined in problem), check for return of pulse (within 10 seconds)</p>

		*B "Patient has a pulse."
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~~Each critical skill identified with an asterisk (*) shall be clearly verbalized by the team as it is being conducted. After initially stating what DOTS stands for, the team may simply state "DOTS" when making their checks.~~

- ~~• Teams may use the acronym "PMS" when checking pulse, motor function and sensory function~~

TWO-RESCUER CPR (WITH SPINAL INJURY - MANIKIN ONLY)

PROCEDURES	CRITICAL SKILL
1. RESCUER 1 - ESTABLISH UNRESPONSIVENESS	<input type="checkbox"/> A. Tap or gently shake shoulders <input type="checkbox"/> *B. "Are you OK?" <input type="checkbox"/> C. Determine unconsciousness without compromising cervical spine (neck) injury <input type="checkbox"/> *D. "Call for help" <input type="checkbox"/> *E. <u>"Get AED if available" (Note: If AED is used, follow local protocol)</u>
2. RESCUER 2 - ESTABLISH AIRWAY	<input type="checkbox"/> A. Kneel at the patient's head <input type="checkbox"/> B. Correctly execute jaw thrust maneuver
32. RESCUER 1 - MONITOR PATIENT FOR BREATHING	<input type="checkbox"/> A. Look, listen, and feel for breathing <u>Look for absence of breathing (no chest rise and fall) or gasping, which are not considered adequate</u> (within 10 seconds)
4. RESCUER 2 - VENTILATE PATIENT	<input type="checkbox"/> A. Rescuer 1 should place barrier device (pocket mask/shield with one-way valve) on manikin. (OPTION 1: When spinal injury is present, Rescuer No. 2 can hold barrier device on manikin after Rescuer No. 1 correctly places the device over the mouth and nose.) (OPTION 2: Rescuer 1 can place the device on the manikin each time patient is ventilated) <input type="checkbox"/> B. Rescuer 2 gives 2 breaths 1 second each <input type="checkbox"/> C. Each breath minimum of .8 (through .7 liter line on new manikins)
53. RESCUER 1 - CHECK FOR CAROTID PULSE	<input type="checkbox"/> A. Correctly locate the carotid pulse - on the side of the rescuer, locate the patient's windpipe with your index and middle fingers and slide your fingers in the groove between the windpipe and the muscle in the neck <input type="checkbox"/> B. Check for presence of carotid pulse for 5 to 10 seconds <input type="checkbox"/> *C. Absence of pulse
64. RESCUER 1 - POSITION FOR COMPRESSIONS	<input type="checkbox"/> A. Locate the compression point on the breastbone between the nipples <input type="checkbox"/> A.B. Place the heel of one hand on sternum the compression point and the other hand on top of the first so hands are parallel <input type="checkbox"/> B.C. Do not rest fingers on the chest Keep heel of your hand on chest during and between compressions

<p>5. RESCUER 1 - DELIVER CARDIAC COMPRESSION</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>A. Give 30 compressions B. Compressions are at the rate of at least 100 per minute (30 compressions delivered within 18seconds) C. Down stroke for compression must be on or <u>through between</u> compression lines (at least 23 out of 30) D. Return to baseline on upstroke of compression (at least 23 out of 30)</p>
<p><u>6. RESCUER 2 - ESTABLISH AIRWAY</u></p>	<input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Kneel at the patient's head</u> <u>B. Correctly execute jaw thrust maneuver</u></p>
<p><u>87. RESCUER 2 - VENTILATIONS BETWEEN COMPRESSIONS</u></p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Rescuer 1 should place the barrier device (pocket mask/ Shield with one way valve) on manikin (OPTION 1: When spinal injury is present, Rescuer No. 2 can hold barrier device on manikin after Rescuer No. 1 correctly places device over the mouth and nose (OPTION 2: Rescuer 1 can place the device on the manikin each time patient is ventilated</u> <u>A.B. Rescuer 2 Gives 2 breaths 1 second each</u> <u>B.C. Each breath - minimum of .8 (through .7 liter line on new manikins)</u> <u>C.D. Complete breaths and return to compressions in less than 4-710 seconds (This will be measured from the end of last down stroke to the start of the first down stroke of the next cycle.)</u></p>
<p><u>98. CONTINUE CPR FOR TIME STATED IN PROBLEM</u></p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>A. Provide 5 cycles of 30 chest compressions and 2 rescue breaths B. To check pulse, stop chest compressions for <u>no more than</u> 10 seconds after the first set of CPR C. Rescuer at patient's head maintains airway and looks, listens, and feels <u>checks</u> for adequate breathing or coughing D. The rescuer giving compressions shall feel for a carotid pulse E. If no signs of circulation are detected, continue chest compressions and breaths and check for signs of circulation after each set F. A maximum of <u>1010</u> seconds will be allowed to complete ventilations and required pulse checks between sets (this will be measured from the end of the last down stroke to the start of the first down stroke of the next cycle)</p>

<p>109. CHANGING RESCUERS</p>	<p><input type="checkbox"/></p>	<p>C.A. Change of rescuers shall be made in 5 seconds or less and will be completed as outlined in problem. Team must switch every 5 cycles in less than 5 seconds.</p>
<p>110. CHECK FOR RETURN OF PULSE</p>	<p><input type="checkbox"/> <input type="checkbox"/></p>	<p>A. A final pulse check (3-5 seconds) will be required at the end of the last set of CPR (<u>within 10 seconds</u>) *B. "Patient has a pulse."</p>

~~NOTE: Each critical skill identified with an asterisk (*) shall be clearly verbalized by the team as it is being conducted. After initially stating what DOTS stands for, the team may simply state "DOTS" when making their checks.~~

~~Teams may use the acronym "PMS" when checking pulse, motor function and sensory function~~

MOUTH-TO-MASK RESUSCITATION

PROCEDURES		CRITICAL SKILL
1. ESTABLISH UNRESPONSIVENESS	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. Tap or gently shake shoulders *B. "Are you OK?" C. Determine unconsciousness without compromising C-spine injury *D. "Call for help" *E. <u>"Get AED if available" (Note: If AED is used, follow local protocol)</u>
2. ESTABLISH AIRWAY	<input type="checkbox"/>	A. Correctly execute head tilt/chin lift or jaw thrust maneuver depending on the presence of cervical spine (neck) injuries
3. MONITOR PATIENT FOR BREATHING	<input type="checkbox"/>	A. Look, listen, and feel for breathing Look for absence of breathing (no chest rise and fall) or gasping, which are not considered adequate (within 10 seconds)
4. VENTILATE PATIENT	<input type="checkbox"/> <input type="checkbox"/>	A. Place barrier device (pocket mask/shield with one-way valve) on manikin B. Ventilate patient 2 times at 1 second intervals each minimum of .8 (through .7 liter line on new manikins)
5. CHECK FOR CAROTID PULSE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. Correctly locate the carotid pulse (on the side of the rescuer) B. Check for presence of carotid pulse within 10 seconds *C. Presence of pulse
4. ESTABLISH AIRWAY	<input type="checkbox"/>	A. Correctly execute head tilt / chin lift or jaw thrust maneuver depending on the presence of cervical spine (neck) injuries
5. VENTILATE PATIENT	<input type="checkbox"/> <input type="checkbox"/>	A. Place barrier device (pocket mask/shield with one-way valve) on manikin B. A. valve on manikin B. Ventilate patient 10 to 12 times per minute. Each ventilation will be provided at a minimum of .8 (through .7 liter line on new manikins)
6. CHECK FOR RETURN OF BREATHING AND PULSE	<input type="checkbox"/> <input type="checkbox"/>	A. After providing the required number of breaths (outlined in problem), check for return of breathing and carotid pulse within 10 seconds *B. "Patient is breathing and has a pulse"

~~NOTE: Each critical skill identified with an asterisk (*) shall be clearly verbalized by the team as it is being conducted. After initially stating what DOTS stands for, the team may simply state "DOTS" when making their checks.~~

- ~~• Teams may use the acronym "PMS" when checking pulse, motor function and sensory function~~

**AIRWAY OBSTRUCTION (MANIKIN ONLY)
(VICTIM LOSES CONSCIOUSNESS)**

PROCEDURES		CRITICAL SKILL
1. POSITIONING VICTIM AFTER LOSS OF CONSCIOUSNESS	<input type="checkbox"/> <input type="checkbox"/>	<p>A. Place victim in supine position (on their back) *B. "Call for help"</p>
2. PERFORM FINGER —SWEEPS	<input type="checkbox"/> <input type="checkbox"/>	<p>A. Follow with opening mouth and finger sweep (Open mouth, grasping tongue and lower jaw with thumb and fingers, insert index finger of other hand down along inside cheek and deeply into throat in a hooking action) B. Grasp and remove foreign object if dislodged</p>
<u>2. POSITION FOR COMPRESSIONS</u>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Locate the compression point on the breastbone between the nipples</u> <u>B. Place the heel of one hand on sternum the compression point and the other hand on top of the first so hands are parallel</u> <u>C. Do not rest fingers on the chest</u> <u>Keep heel of your hand on chest during and between compressions</u></p>
<u>3. DELIVER COMPRESSIONS</u>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Give 30 compressions</u> <u>B. Compressions are at the rate of at least 100 per minute (30 compressions delivered within 18seconds)</u> <u>C. Down stroke for compression must be on or through compression lines (at least 23 out of 30)</u> <u>D. Return to baseline on upstroke of compression</u></p>
<u>34. OPEN AIRWAY</u>	<input type="checkbox"/> <input type="checkbox"/>	<p>A. <u>A. Correctly execute head-tilt/chin-lift or jaw thrust maneuver depending on the presence of cervical spine (neck) injuries</u> <u>*B. "Look for foreign object"</u></p>
<u>5. PERFORM FINGER SWEEP (IF OBJECT IS SEEN)</u>	<input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Follow with finger sweep, only if the object is seen. (open mouth, grasping tongue and lower jaw with thumb and fingers, insert index finger of other hand down along inside cheek and deeply into throat in a hooking action)</u> <u>B. Grasp and remove foreign object</u></p>
<u>6. ATTEMPT VENTILATION</u>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Place barrier device on manikin</u> <u>B. Seal mouth and nose</u> <u>C. Attempt to give slow breath</u> <u>*D. Identify if there is an obstruction</u></p>

<u>7. CHECK POSITIONING</u>	<input type="checkbox"/> <input type="checkbox"/>	<u>A. Re-establish airway using correct method and procedure</u> <u>B. Identify continued presence of the obstruction by attempting ventilation again</u>
4. ATTEMPT VENTILATIONS	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. Place barrier device on manikin B. Seal mouth and nose C. Attempt to give slow full breath D. If successful, deliver second slow full breath and check pulse E. If unsuccessful, continue sequence
5. DELIVER ABDOMINAL THRUST	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. Straddle the victim's thighs B. Place heel of one hand against the victim's abdomen, in midline slightly above the navel and well below Xiphoid (point where ribs attach to the lower part of the breastbone) C. Place second hand on top of the first D. Deliver quick upward thrust E. Each thrust administered with intent of relieving obstruction F. Deliver 5 thrusts
6. PERFORM FINGER SWEEP	<input type="checkbox"/> <input type="checkbox"/>	A. Follow with opening mouth and finger sweep (open mouth, grasping tongue and lower jaw with thumb and fingers, insert index finger of other hand down along inside cheek and deeply into throat in a hooking action) B. Grasp and remove foreign object if dislodged
7. ATTEMPT VENTILATIONS	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. Place barrier device on manikin B. Correctly make effort to administer slow full breath X. If successful, deliver second slow full breath and check pulse A. If unsuccessful, continue sequence
8. REPEAT SEQUENCE UNTIL SUCCESSFUL	<input type="checkbox"/>	A. Demonstrate ability to rapidly repeat sequence 12 -7
9. ESTABLISH AIRWAY	<input type="checkbox"/> <input type="checkbox"/>	A. Correctly execute head-tilt/chin-lift or jaw thrust maneuver depending on the presence of cervical spine (neck) injuries B. Look, listen, and feel. Check for the presence of breathing (within 10 seconds) (within 10 seconds)
10. RE-EVALUATION OF PATIENT	<input type="checkbox"/> <input type="checkbox"/>	*A. Determine the need to repeat the sequence B. Cease at the direction of the judge

~~NOTE: Each critical skill identified with an asterisk (*) shall be clearly verbalized by the team as it is being conducted. After initially stating what DOTS stands for, the team may simply state "DOTS" when making their checks.~~

- ~~◆ Teams may use the acronym "PMS" when checking pulse, motor function and sensory function~~

AIRWAY OBSTRUCTION (UNCONSCIOUS VICTIM - WITNESSED)

PROCEDURES	CRITICAL SKILL
1. INITIALLY ASSESS LEVEL OF CONSCIOUSNESS	<input type="checkbox"/> A. Tap or gently shake shoulders <input type="checkbox"/> *B. "Are you OK?" <input type="checkbox"/> C. Determine unconsciousness without compromising C-spine injury <input type="checkbox"/> *D. "Call for help" <input type="checkbox"/> *E. <u>"Get AED if available" (Note: If AED is used, follow local protocol)</u>
<u>2. MONITOR PATIENT FOR BREATHING</u>	<input type="checkbox"/> <u>A. Look for absence of breathing (no chest rise and fall) or gasping, which are not considered adequate (within 10 seconds)</u>
<u>3. PULSE CHECK</u>	<input type="checkbox"/> <u>A. Correctly locate the carotid pulse - on the side of the rescuer, locate the patient's windpipe with your index and middle fingers and slide your fingers in the groove between the windpipe and muscle in the neck</u> <input type="checkbox"/> <u>B. Check for presence of carotid pulse for 5 to 10 seconds</u> <input type="checkbox"/> *C. Patient has pulse
<u>4. OPEN AIRWAY 2- ESTABLISH AIRWAY</u>	<input type="checkbox"/> A. Correctly execute head-tilt/chin-lift or jaw thrust maneuver depending on the presence of cervical spine (neck) injuries <input type="checkbox"/> <u>A. Correctly execute head-tilt/chin-lift or jaw thrust maneuver depending on the presence of cervical spine (neck) injuries</u> <input type="checkbox"/> *B. "Look for foreign object"
3. MONITOR PATIENT FOR BREATHING	<input type="checkbox"/> A. Look, listen, feel for presence of breathing (within 10 seconds) <input type="checkbox"/> B. Maintain open airway
<u>45. ATTEMPT VENTILATION</u>	<input type="checkbox"/> A. Place barrier device on manikin <input type="checkbox"/> B. Seal mouth and nose <input type="checkbox"/> C. Attempt to give slow breath <u>(1 second duration)</u> <input type="checkbox"/> *D. Identify if there is an obstruction
<u>56. CHECK POSITIONING</u>	<input type="checkbox"/> A. Re-establish airway using correct method and procedure <input type="checkbox"/> *B. Identify continued presence of the obstruction

<p>6. DELIVER ABDOMINAL —THRUST</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>A. Kneel astride the victim's thighs B. Place heel of one hand against the victim's abdomen, in midline slightly above the navel and well below Xiphoid (point where ribs attach to the lower part of the breastbone) C. Place second hand on top of the first D. Deliver quick upward thrust E. Each thrust administered with intention of relieving — obstruction F. Deliver 5 thrusts</p>
<p>7. DELIVER CHEST —THRUST (ONLY USED — IN ADVANCED — PREGNANCY OR — MARKED OBESE — VICTIM</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>A. Kneel at side of victim B. Place heel of hand on breastbone between the nipples — (CPR position) C. Place heel of other hand directly on top of the first hand D. Deliver slow distinct downward thrust, with each thrust administered with intent of relieving obstruction E. Deliver 5 thrusts</p>
<p>7. POSITION FOR <u>COMPRESSIONS</u></p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Locate the compression point on the breastbone between the nipples</u> <u>B. -Place the heel of one hand on sternum the compression point and the other hand on top of the first so hands are parallel</u> <u>C. Do not rest fingers on the chest keep heel of your hand on chest during and between compressions.</u></p>
<p>8. DELIVER <u>COMPRESSIONS</u></p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Give 30 compressions</u> <u>B. Compressions are at the rate of at least 100 per minute (30 compressions delivered within 18seconds)</u> <u>C. Down stroke for compression must be on or through compression lines</u> <u>D. Return to baseline on upstroke of compression</u></p>
<p>8. CHECK FOR FOREIGN —BODY</p>	<input type="checkbox"/> <input type="checkbox"/>	<p>A. Follow with opening mouth and finger sweep (Open — mouth, grasping tongue and lower jaw with thumb and fingers, insert index finger of other hand down along inside cheek and deeply into throat in a hooking action) *B. — Grasp and remove foreign object if dislodged</p>
<p>9. <u>OPEN AIRWAY</u></p>	<input type="checkbox"/> <input type="checkbox"/>	<p><u>A. Correctly execute head-tilt / chin-lift or jaw-thrust maneuver depending on the presence of cervical spine (neck) injuries</u> <u>*B "Look for foreign object"</u></p>

<p><u>10. PERFORM FINGER SWEEP (IF OBJECT IS SEEN)</u></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><u>A. Follow with finger sweep, only if the object is seen. (open mouth, grasping tongue and lower jaw with thumb and fingers, insert index finger of other hand down along inside cheek and deeply into throat in a hooking action)</u></p> <p><u>B. Grasp and remove foreign object</u></p>
<p><u>9. ESTABLISH AIRWAY</u></p>	<p><input type="checkbox"/></p>	<p><u>A. Correctly perform head tilt/chin lift or jaw thrust —maneuver depending on cervical spine (neck) injuries</u></p>
<p><u>11. ATTEMPT VENTILATION</u></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><u>i.A.</u> Correctly make effort to administer slow full breath</p> <p><u>ii.B.</u> Administer second slow full breath, if first successful and check pulse</p> <p>C. If unsuccessful repeat sequence of thrust <u>compressions, mouth check</u>, finger sweep <u>(if object is visible)</u> and attempt to ventilate</p>

SUCKING CHEST WOUND

PROCEDURES		CRITICAL SKILL
1. EXPOSE WOUND	<input type="checkbox"/>	*A. Expose entire wound
2. SEAL WOUND AND CONTROL BLEEDING	<input type="checkbox"/> <input type="checkbox"/>	*A. Place occlusive dressing over wound (If occlusive dressing is not available use gloved hand) B. Apply direct pressure as needed to stop the bleeding
3. APPLY AN OCCLUSIVE DRESSING	<input type="checkbox"/> <input type="checkbox"/>	A. Keep patient calm and quiet *B. Explain to the patient what you are doing *C. Ensure dressing is large enough not to be sucked into the wound (two inches beyond edges of wound) D. Affix dressing with tape *E. Seal on three sides *F. Monitor patient closely for increasing difficulty breathing *G. Transport as soon as possible H. Keep patient positioned on the injured side unless other injuries prohibit *I. Reassess wound to ensure bleeding control *J. Assess level of consciousness(AVPU), respiratory status and patient response

~~NOTE: Alert, verbal, painful, unresponsive (AVPU)~~

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LIFE-THREATENING BLEEDING

PROCEDURES	CRITICAL SKILL
1. DIRECT PRESSURE AND ELEVATION	<input type="checkbox"/> *A. Expose the wound. <input type="checkbox"/> *B. Clear the wound surface <input type="checkbox"/> *C.*A. Apply direct pressure with a gloved hand <input type="checkbox"/> *D.*B. Apply a dressing to wound (cover entire wound) and continue to apply direct pressure <input type="checkbox"/> *E.*C. Elevate the extremity except when spinal injury exists <input type="checkbox"/> *F.*D. Bleeding has been controlled <input type="checkbox"/> *G.*E. If controlled, bandage dressing in place
2. IF NOTIFIED THAT BLEEDING IS NOT CONTROLLED, PRESSURE POINTS SHALL BE UTILIZED	<input type="checkbox"/> *A. Apply pressure to appropriate pressure point and notify judge verbally that bleeding is controlled (Apply pressure to blood vessels leading to area - in arm, press just below armpit; in leg, press against groin where thigh and trunk join.) <input type="checkbox"/> B. If controlled, bandage dressing in place
3. IF NOTIFIED THAT BLEEDING IS NOT CONTROLLED, APPLY TOURIQUET	<input type="checkbox"/> A. Apply as per tourniquet skill sheet

External Bleeding

To Control: 1st: direct pressure
 2nd: elevation & direct pressure
 3rd: pressure point
 Last Resort: Tourniquet

Internal Bleeding

- *1. Monitor breathing and pulse
- *2. Keep patient still
- *3. Loosen restrictive clothing
- *4. Be alert if patient vomits
- *5. Nothing by mouth
- *6. Report possibility of internal bleeding as soon as EMS personnel arrive on scene

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TOURNIQUET

PROCEDURES	CRITICAL SKILL
1. DETERMINE NEED FOR USING TOURNIQUET	<p>If these conditions are met, a tourniquet may be the only alternative:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A. Direct pressure has not been successful in stopping bleeding <input type="checkbox"/> B. Elevation of wound above heart has not been successful in stopping of bleeding <input type="checkbox"/> C. Compression of pressure point has not been successful in stopping of bleeding.
2. SELECT APPROPRIATE MATERIALS	<ul style="list-style-type: none"> <input type="checkbox"/> 1.A. Select a band that will be between 3-4 inches in width and can be wrapped six or eight layers deep for improvised tourniquet or select factory tourniquet.
3. APPLY TOURNIQUET	<ul style="list-style-type: none"> <input type="checkbox"/> Factory Tourniquet <ul style="list-style-type: none"> A. Wrap band around the extremity proximal to the wound (one inch above but not on a joint) <input type="checkbox"/> <u>Improvised Tourniquet</u> <ul style="list-style-type: none"> B. Apply a bandage around the extremity proximal to the wound (one inch above but not on a joint) and tie a half knot in the bandage C. Place a stick or pencil on top of the knot and tie the ends of the bandage over the stick in a square knot D. Twist the stick until the bleeding is controlled, secure the stick in position
4. APPLY PRESSURE WITH TOURNIQUET	<ul style="list-style-type: none"> <input type="checkbox"/> <u>A. Do not cover the tourniquet with bandaging material</u> <input type="checkbox"/> *B. Notify other medical personnel caring for the patient
5. MARK PATIENT APPROPRIATELY	<ul style="list-style-type: none"> <input type="checkbox"/> A. Mark a piece of tape on the patient's forehead "TQ" and time applied
6. REASSESS	<ul style="list-style-type: none"> <input type="checkbox"/> *A. Assess level of consciousness (<u>AVPU</u>), respiratory status, and patient response

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DRESSINGS AND BANDAGING - OPEN WOUNDS

PROCEDURES	CRITICAL SKILL
1. EMERGENCY CARE FOR AN OPEN WOUND	<input type="checkbox"/> * A. Expose wound <input type="checkbox"/> * B. Clear wound surface <input type="checkbox"/> * A. * C. Control bleeding <input type="checkbox"/> * B. * D. Prevent further contamination <input type="checkbox"/> * C. * E. Bandage dressing in place after bleeding has been controlled <input type="checkbox"/> * D. * F. Keep patient lying still
2. APPLY DRESSING	<input type="checkbox"/> A. Use sterile dressing <input type="checkbox"/> B. Cover entire wound <input type="checkbox"/> C. Control bleeding <input type="checkbox"/> D. Do not remove dressing
3. APPLY BANDAGE	<input type="checkbox"/> *A. Do not bandage too tightly. <input type="checkbox"/> *B. Do not bandage too loosely. <input type="checkbox"/> *C. Do not leave loose ends. <input type="checkbox"/> *D. Cover all edges of dressing. <input type="checkbox"/> *E. Do not cover tips of fingers and toes, unless they are injured. <input type="checkbox"/> *F. Bandage from the bottom of the limb to the top (distal to proximal) if applicable.

Impaled Objects

- *1. Do not remove
2. Expose wound
3. Control bleeding
4. Stabilize with a bulky dressing; criss-cross the layers
5. Tie 4in. wide cravats around to hold in place, or tape in place
- *6. Check for exit wound
7. Immobilize affected area

Impaled Objects in the Cheek

- *1. Examine; inside & outside
2. If end not impaled in mouth - pull it out
3. Position head for drainage: if spinal injury, immobilize 1st and tilt board
4. Dress outside of wound
- *5. Gauze on inside only if patient alert, (Simulate only in contest and state, "I would leave 3-4 inches of gauze outside of mouth.")

Impaled Objects in the Eye

1. Stabilize with 3 inch gauze or folded 4x4
2. Put cup (no Styrofoam) over object and allow cup to rest on roller gauze or 4x4
3. Secure cup with roller gauze (not over top of cup)
- *4. Cover uninjured eye too

Open Neck Wound (Serious or Life Threatening)

- *1. Gloved hand over wound
- *2. Occlusive dressing over wound- 2 inches larger than wound site
3. Gauze dressing over occlusive
4. Place roller gauze beside site and wrap around figure 8 under opposite arm

Abdominal Injury

- *1. Place on back with legs flexed at the knees (for closed or open wounds)

Additional Steps for Open Abdominal Wounds (Serious or Life Threatening)

- *1. Apply moist dressing, then an occlusive dressing
- *2. Cover the occlusive with pads or a towel for warmth
- *3. If an object is impaled in abs, stabilize it and do not flex legs- leave them in the position you found them.

Skull Fractures and Brain Injuries

- *1. Open airway with jaw thrust
2. Apply collar
- *3. Use loose gauze dressing- no direct pressure
- *4. Keep at rest, ask them questions
5. Don't elevate legs (on or off a backboard)
6. After entire body is immobilized- tilt back board, injured side down

Amputations

- *1. Wrap in slightly moistened sterile dressing
2. Place in plastic bag or wrap in plastic
- *3. Keep part cool avoid freezing
- *4. Do not place in water or direct contact with ice
- *5. Transport with patient
6. Label with patients name

NOTE:

Triangular slings are required for all wounds of upper extremities, including shoulder and armpit wounds. Slings will not be required for upper extremity burns. However, if a burn and wound and/or fracture/dislocation are present on the same upper extremity, a sling shall be applied. Slings will be applied on upper extremities with injuries after all injuries of the extremity have been treated. (Page # 9 rule #24)

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TWO-PERSON LOG ROLL

PROCEDURES		CRITICAL SKILL
1. STABILIZE HEAD	<input type="checkbox"/>	*A. Stabilize the head and neck
2. PREPARING THE PATIENT	<input type="checkbox"/> <input type="checkbox"/>	A. When placing patient on board place board parallel to the patient a.B. Kneel at the patient's shoulders opposite the board (if used) leaving room to roll the patient toward knees Raise the patient's arm, if not injured (the one closer to the rescuer) above the patient's head
3. PREPARING THE RESCUER	<input type="checkbox"/> <input type="checkbox"/>	A. Grasp the patient at the shoulder and pelvis area B. Give instructions to bystander, if used to support
4. ROLLING THE PATIENT	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. While stabilizing the head, roll the patient toward the rescuer by pulling steadily and evenly at the shoulder and pelvis areas B. The head and neck should remain on the same plane as the torso C. Maintain stability by holding patient with one hand and placing board (if used) with other D. Roll the body as a unit onto the board (if used) (board may be slanted or flat) E. Place the arm alongside the body

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SPLINTING (RIGID) UPPER EXTREMITY FRACTURES AND DISLOCATIONS

PROCEDURES	CRITICAL SKILL
1. CARE FOR FRACTURE	<input type="checkbox"/> *A. Check for distal circulation, sensation, and motor function <ul style="list-style-type: none"> ▪ Do not attempt to reduce dislocations (if applies)
2. IMMOBILIZING FRACTURE	<input type="checkbox"/> A. Selection of appropriate rigid splint of proper length <input type="checkbox"/> B. Support affected limb and limit movement <input type="checkbox"/> C. Apply appropriate padded rigid splint against injured extremity <input type="checkbox"/> D. Place appropriate roller bandage in hand to ensure the position of function <input type="checkbox"/> E. Secure splint to patient with roller bandage, handkerchiefs, cravats, or cloth strips <input type="checkbox"/> F. Apply wrap distal to proximal <input type="checkbox"/> *G. <u>Recheck-Reassess</u> distal circulation, sensation, and motor function
3. SECURING WITH SLING	<input type="checkbox"/> A. Place sling over chest and under arm <input type="checkbox"/> B. Hold or stabilize arm <input type="checkbox"/> C. Triangle should extend behind elbow or <u>on</u> injured side <input type="checkbox"/> D. Pull sling around neck and tie on uninjured side <input type="checkbox"/> E. Pad at the neck (except when C-Collar is present) <input type="checkbox"/> F. Secure excess material at elbow <input type="checkbox"/> G. Fingertips should be exposed <input type="checkbox"/> *H. <u>Reassess distal circulation, sensation, and motor function</u> Check for motion and circulation
4. SECURING SLING WITH SWATHE	<input type="checkbox"/> A. Use triangle cravat <u>or factory swathe</u> <input type="checkbox"/> B. Swathe is tied around chest and injured arm <input type="checkbox"/> *C. Reassess distal circulation, sensation, and motor function

ELBOW (STRAIGHT POSITION)

Follow Procedures No. 1 and No. 2 above

FINGER/FINGERS

Immobilize Fracture

1. Tape injured finger to an adjacent uninjured finger; or
2. Tape injured finger to a tongue depressor, aluminum splint, or pen and pencil
3. Secure with sling and swathe

COLLAR BONE

Support and limit movement of affected area
Follow Procedures No. 1, No. 3 and No. 4 above

SHOULDER BLADE

Support and limit movement of affected area
Follow Procedures No. 1, No. 3 and No. 4 above

NOTE: Do not reposition dislocations

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SPLINTING (SOFT) UPPER EXTREMITY FRACTURES AND DISLOCATIONS (WRIST AND HAND)

PROCEDURES	CRITICAL SKILL
1. CARE FOR FRACTURE	<input type="checkbox"/> *A. Check for distal circulation, sensation, and motor function <ul style="list-style-type: none"> ▪ Do not attempt to reduce dislocations (if applies)
2. IMMOBILIZING FRACTURE	<input type="checkbox"/> A. Support affected limb and limit movement <input type="checkbox"/> B. Place two cravats (triangular bandage) under wrist/hand <input type="checkbox"/> C. Place pillow length wise under wrist/hand, on top of cravats (pillow should extend past fingertips) <input type="checkbox"/> D. Lower limb, adjust cravats to tie <input type="checkbox"/> E. Tie cravats distal to proximal
3. SECURING WITH SLING	<input type="checkbox"/> A. Place sling over chest and under arm <input type="checkbox"/> B. Hold or stabilize arm <input type="checkbox"/> C. Triangle should extend behind elbow or injured side <input type="checkbox"/> D. Secure excess material at elbow <input type="checkbox"/> E. Fingertips should be exposed <input type="checkbox"/> *F. <u>Check for motion and circulation. Reassess distal circulation, sensation, and motor function</u>
4. SECURING SLING WITH SWATHE	<input type="checkbox"/> A. Use triangle cravat <input type="checkbox"/> B. Swathe is tied around chest and injured arm <input type="checkbox"/> *C. Reassess distal circulation, sensation, and motor function

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SPLINTING (RIGID OR SOFT) PELVIC GIRDLE, THIGH, KNEE, AND LOWER LEG

PROCEDURE	CRITICAL SKILL
1. DETERMINE NEED FOR SPLINTING	<input type="checkbox"/> *A. Assess for: <ul style="list-style-type: none"> ▪ Pain ▪ Swelling ▪ Deformity <input type="checkbox"/> B. Determine if splinting is warranted
2. APPLY MANUAL STABILIZATION	<input type="checkbox"/> A. Support affected limb and limit movement <ul style="list-style-type: none"> ▪ Do not attempt to reduce dislocations
3. SELECT APPROPRIATE SPLINT	<input type="checkbox"/> A. Select appropriate splinting method depending on position of extremity and materials available <input type="checkbox"/> B. Select appropriate padding material
4. PREPARE FOR SPLINTING	<input type="checkbox"/> A. Remove or cut away clothing as needed <input type="checkbox"/> *B. Assess PMS distal to the injury: <ul style="list-style-type: none"> ▪ Pulse ▪ Motor Function ▪ <u>Sensory Function Assess distal circulation, sensation, and motor function</u> <input type="checkbox"/> C. Cover any open wounds with sterile dressing and bandage <input type="checkbox"/> D. Measure splint <input type="checkbox"/> E. Pad around splint for patient comfort

SPLINTING (SOFT) LOWER EXTREMITY FRACTURES AND DISLOCATIONS (ANKLE AND FOOT)

PROCEDURES	CRITICAL SKILL
1. CARE FOR FRACTURE	<input type="checkbox"/> *A. Check-Assess for distal circulation, sensation, and motor function <ul style="list-style-type: none"> ▪ Do not attempt to reduce dislocations (if applies)
2. IMMOBILIZING FRACTURE	<input type="checkbox"/> A. Support affected limb and limit movement <input type="checkbox"/> B. Place three cravats (triangular bandage) under ankle/foot <input type="checkbox"/> C. Place pillow length wise under ankle/foot, on top of cravats (pillow should extend 6 inches beyond foot) <input type="checkbox"/> D. Lower limb, adjust cravats to tie <input type="checkbox"/> E. Tie cravats distal to proximal <input type="checkbox"/> F. Elevate with blanket or pillow <input type="checkbox"/> *G. Reassess distal circulation, sensation, and motor function

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**SPLINTING UPPER EXTREMITY/LOWER EXTREMITY FRACTURES
(AIR SPLINT)**

PROCEDURES	CRITICAL SKILL
1. CARE FOR FRACTURE	<input type="checkbox"/> *A. <u>Assess distal circulation, sensation, and motor function</u> Check for motion and circulation (fingers/toes)
2. IMMOBILIZE FRACTURE	<input type="checkbox"/> A. Grasp above and below the injury site <input type="checkbox"/> B. Maintain support <input type="checkbox"/> C. Properly apply air splint <input type="checkbox"/> D. Splint should be relatively free of wrinkles <input type="checkbox"/> E. Inflate splint to point that slight dent can be made <input type="checkbox"/> *F. Reassess <u>distal circulation, sensation, and motor function</u> circulation (fingers/toes)
3. MONITOR AIR-INFLATED SPLINT	<input type="checkbox"/> *A. Periodically check for increase or decrease in pressure <input type="checkbox"/> *B. Monitor pressure in splint with finger tip <input type="checkbox"/> C. Make sure desired pressure is maintained <input type="checkbox"/> *D. Reassess circulation <u>distal circulation, sensation, and motor function</u> (fingers/toes)

NOTE: Air splints may not be used with open (protruding bones) fractures.
 Air splints may only be used on the lower part of the extremities (from below the elbow on the arm and below the knee to the leg).

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SPLINTING - FLAIL CHEST

PROCEDURES	CRITICAL SKILL
1. DETERMINE NEED FOR SPLINTING	*A. Assess for: <ul style="list-style-type: none"> • Pain • Swelling • Deformity *B. Determine if splinting is warranted
2. SELECT APPROPRIATE SPLINTING MATERIAL	A. Choose a pillow, blanket, trauma dressing, or other appropriate splinting material
3. PREPARE FOR SPLINTING	*A. Remove or cut away clothing as needed. B. Cover any open wounds with sterile dressing and bandage
4. APPLY SPLINT	A. Affix splint to chest with adhesive tape or roller bandage B. Immobilize the site of injury C. Use caution when taping splint to chest circumferentially D. *D. Ensure sufficient chest expansion
5. REASSESS	*A. Assess patient response and level of comfort
6. ASSIST VENTILATIONS	A. *A. Assist with ventilation as needed

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ONE RESCUER BLANKET DRAG

PROCEDURES	CRITICAL SKILL
1. VICTIM SUPINE ON GROUND	<input type="checkbox"/> A. Properly prepare blanket for use in blanket drag <input type="checkbox"/> B. Spread blanket along side patient with approximately one half the width gathered lengthwise into pleats
2. POSITION PATIENT	<input type="checkbox"/> A. Properly roll victim on one side <input type="checkbox"/> B. Take patients arm on side of body opposite to blanket and extend arm over head <input type="checkbox"/> C. Support head and neck roll patient on side away from Blanket
3. PLACE PATIENT ON BLANKET	<input type="checkbox"/> A. Properly position on blanket <input type="checkbox"/> B. Hold patient on side while pleated portion of blanket is pulled in close to victim's back <input type="checkbox"/> C. Roll patient onto blanket, extend opposite arm and roll onto opposite side <input type="checkbox"/> D. Smooth out pleats and roll patient onto back <input type="checkbox"/> E. Snugly wrap patient in blanket with arms at sides
4. PREPARE TO DRAG PATIENT	<input type="checkbox"/> A. Proper blanket drag of patient <input type="checkbox"/> B. Grasp portion of blanket beneath victim's head and drag victim to safety

TWO RESCUER EXTREMITY GROUND LIFT

PROCEDURES		CRITICAL SKILL
1. POSITIONING	<input type="checkbox"/> <input type="checkbox"/>	A. Rescuer 1 - Kneel at the head of the patient and place one hand under each of the shoulders B. Rescuer 2 - Kneel by the patients knees and grasp the patient's wrist
2. RAISING PATIENT TO A SITTING POSITION	<input type="checkbox"/> <input type="checkbox"/>	A. Rescuer 1 - push patient's shoulders up and support patient's back and head with body B. Rescuer 2 - Gently pull on patient's arms
3. POSITIONING AND LIFTING	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A. Rescuer 1 - Support patient in sitting position B. Rescuer 2 - Slip hands under the patient's knees C. On command, rescuers stand simultaneously, lifting patient with proper body mechanics

SHIRT DRAG

PROCEDURES		CRITICAL SKILL
1. POSITIONING	<input type="checkbox"/>	A. Rescuer - Kneel at the head of the patient and place one hand under each of the shoulders
2. MOVING PATIENT	<input type="checkbox"/> <input type="checkbox"/>	A. Rescuer - Grasp shirt at the shoulder area B. Drag patient in a straight line (keep spine as straight as possible)

ESTABLISHING AIRWAY-SUSPECTED CERVICAL SPINE (NECK) INJURY

PROCEDURES		CRITICAL SKILL
1. STABILIZE HEAD	<input type="checkbox"/> <input type="checkbox"/>	A. Rescuer – Position at top of the victim’s head B. Restrain victim’s head and neck to avoid voluntary or involuntary movement/rotation of the neck
2. ESTABLISH AIRWAY	<input type="checkbox"/>	A. Use modified jaw thrust maneuver without causing over-extension of victim’s neck
3. CHECK FOR BREATHING	<input type="checkbox"/> <input type="checkbox"/>	A. Look, listen and feel for breathing (3-5 seconds) *B. State that the victim is/is not breathing
4. MAINTAIN OPEN AIRWAY	<input type="checkbox"/>	A. Do not compromise suspected neck injury

SHOCK

PROCEDURES	CRITICAL SKILL
1. CHECK FOR SIGNS AND SYMPTOMS OF SHOCK	<input type="checkbox"/> *A. Check for pale (or bluish) skin (in victim with dark skin examine inside of mouth and nailbeds for bluish coloration. <input type="checkbox"/> *B. Check for cool, clammy skin <input type="checkbox"/> *C. Check for weakness
2. TREATMENT	<input type="checkbox"/> A. Keep victim lying down <input type="checkbox"/> B. Cover with blanket to prevent loss of body heat and place a blanket under the patient. (Do not try to place blanket under patient with possible spinal injuries) <input type="checkbox"/> C. Elevate according to injury <input type="checkbox"/> *D. Reassure and calm the patient

Option 1: Elevate the lower extremities or foot end of the back board. This procedure is performed in most cases. Place the patient flat, face up and elevate the legs or foot end of the back board 8 to 12 inches. Do not elevate any limbs with possible fractures or pelvic injuries until they have been properly splinted. Remember to consider the mechanism of injury for every patient.

Option 2: Lay the patient flat, face up. This is the supine position, used for patients with a spinal injury and patients who have serious injuries to the extremities that have not been supported. If the patient is placed in this position, you must constantly be prepared for vomiting.

Option 3: Slightly raise the head and shoulders. This position should be used only for responsive patients with no spinal injuries, life threatening chest or abdominal injuries and only for patients having difficulty breathing, but who have an open airway. A semi-seated position can also be used for patients with a history of heart problems. It is not recommended for moderate to severe cases of shock. Be certain to keep the patient's head from tilting forward.

Note: Injuries requiring the injured side to be tilted or placed down may be done after patient has been properly secured to a back board if a back board is required.

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IMMOBILIZATION - LONG SPINE BOARD (Backboard)

PROCEDURES	CRITICAL SKILL
1. MOVE THE PATIENT ONTO THE LONG SPINE BOARD	<ul style="list-style-type: none"> <input type="checkbox"/> <u>B.A.</u> One First Aid Provider at the head must maintain in-line immobilization of the head and spine <input type="checkbox"/> <u>C.B.</u> First Aid Provider at the head directs the movement of the patient <input type="checkbox"/> <u>D.C.</u> Other First Aid Provider control movement of the rest of body <input type="checkbox"/> <u>E.D.</u> Other First Aid Provider position themselves on same side <input type="checkbox"/> <u>F.E.</u> Upon command of First Aid Provider at the head, roll patient onto side toward First Aid Providers <input type="checkbox"/> <u>G.F.</u> Quickly assess posterior body, if not already done <input type="checkbox"/> <u>H.G.</u> Place long spine board next to the patient with top of board beyond top of head <input type="checkbox"/> <u>H.H.</u> Place patient onto the board at command of the First Aid Provider at head while holding in-line immobilization using methods to limit spinal movement <input type="checkbox"/> <u>J.I.</u> Slide patient into proper position using smooth coordinated moves keeping spine in alignment
2. PAD VOIDS BETWEEN PATIENT AND LONG SPINE BOARD	<ul style="list-style-type: none"> <input type="checkbox"/> A. Select and use appropriate padding <input type="checkbox"/> B. Place padding as needed under the head <input type="checkbox"/> C. Place padding as needed under torso
3. IMMOBILIZE BODY TO THE LONG SPINE BOARD	<ul style="list-style-type: none"> <input type="checkbox"/> <u>B.A.</u> Strap and secure body to board ensuring spinal immobilization, beginning at shoulder and working toward feet
4. IMMOBILIZE HEAD TO THE LONG SPINE BOARD	<ul style="list-style-type: none"> <input type="checkbox"/> <u>a.A.</u> Using head set or place rolled towels on each side of head <input type="checkbox"/> <u>b.B.</u> Tape and/or strap head securely to board, ensuring cervical spine immobilization
5. REASSESS	<ul style="list-style-type: none"> <input type="checkbox"/> *A. <u>Reassess distal circulation, sensation, and motor function</u> Reassess PMS (Pulse, Motor, Sensory) <input type="checkbox"/> *B. Assess patient response and level of comfort

NOTE: Each critical skill identified with an asterisk (*) shall be clearly verbalized by the team as it is being conducted. After initially stating what DOTS stands for, the team may simply state "DOTS" when making their checks.

•Teams may use the acronym "PMS" when checking pulse, motor function and sensory function

IMMOBILIZATION OF CERVICAL SPINE

PROCEDURES	CRITICAL SKILL
1. ESTABLISH AND MAINTAIN IN-LINE IMMOBILIZATION	<input type="checkbox"/> A. Place head in a neutral, in-line position unless patient complains of pain or the head is not easily moved into position <input type="checkbox"/> B. Place head in alignment with spine <input type="checkbox"/> C. Maintain constant manual in-line immobilization until the patient is properly secured to a backboard with head immobilized
2. ASSESS <u>CSMPMS</u>	<input type="checkbox"/> *A. Assess PMS in all extremities: <ul style="list-style-type: none"> • Pulse • Motor function • Sensory function <ul style="list-style-type: none"> • <u>Assess distal circulation, sensation, and motor function (on all extremities)</u>
3. ASSESS CERVICAL REGION AND NECK	<input type="checkbox"/> *A. Inspect and palpate for injuries or signs of injuries using: DOTS acronym B. Remove clothing or jewelry as necessary
4. BANDAGE ANY WOUND	<input type="checkbox"/> A. Any neck wounds
5. APPLY CERVICAL SPINE IMMOBILIZATION	<input type="checkbox"/> A. Apply properly sized collar or manual immobilization <u>One piece C-collar</u> <input type="checkbox"/> A. Select proper sized collar <input type="checkbox"/> B. Apply collar <input type="checkbox"/> C. Ensure that patient's head is not twisted during application <input type="checkbox"/> D. Ensure airway is open after placement <u>Two piece C-collar</u> <input type="checkbox"/> A. Select proper sized collar <input type="checkbox"/> B. Apply rear section to back of neck <input type="checkbox"/> C. Center rigid support on spine <input type="checkbox"/> D. Apply front section (overlaps rear section) <input type="checkbox"/> E. Ensure chin rests in chin cavity <input type="checkbox"/> F. Secure collar with Velcro straps <input type="checkbox"/> G. Ensure airway is open after placement

6. SECURE HEAD TO APPROPRIATE IMMOBILIZATION DEVICE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<u>B.A.</u> Immobilize patient to appropriate immobilization device B. Use head set or place rolled blankets or towels on each side of head C. Tape <u>and or strap</u> head securely to appropriate immobilization Device
7. REASSESS	<input type="checkbox"/> <input type="checkbox"/>	*A. <u>Reassess distal circulation, sensation, and motor function</u> <u>Reassess PMS</u> *B. Assess patient response and level of comfort

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BURNS

PROCEDURES	CRITICAL SKILLS
1. DETERMINE BURN TYPE	<input type="checkbox"/> *A. Determine type <ul style="list-style-type: none"> ▪ Thermal ▪ Chemical ▪ Electrical
2. DETERMINE BODY SURFACE AREA	<input type="checkbox"/> *A. Determine Body Surface Area (BSA) using rule of nines
3. BURN CARE (All Types)	<input type="checkbox"/> *A. Remove patient from source of burn and prevent further contamination <input type="checkbox"/> *B. Consider the type of burn and stopping the burning process initially with water or saline if appropriate *C. Cut off smoldering clothing <input type="checkbox"/> *DC. Remove jewelry <input type="checkbox"/> *ED. Continually monitor the airway for evidence of closure <input type="checkbox"/> *FE. Cover the burned area with a dry sterile dressing <input type="checkbox"/> *GF. Do not use any type of ointment, lotion or antiseptic <input type="checkbox"/> *HG. Do not break blisters <input type="checkbox"/> *H. Ensure patient does not get hypothermic
4. CARE FOR CHEMICAL BURNS	<input type="checkbox"/> C.A. Protect yourself from exposure to hazardous materials <input type="checkbox"/> D.B. Wear gloves, eye protection, and respiratory protection <input type="checkbox"/> C.*C. Brush off dry powders <input type="checkbox"/> *D. Consider to flushing with large amounts of water <input type="checkbox"/> *E. Continue flushing the contaminated area while en route to the receiving facility if applicable <input type="checkbox"/> *F. Use caution not to contaminate uninjured areas when flushing or brushing
5. CARE FOR ELECTRICAL BURNS	<input type="checkbox"/> *A. Ensure safety before removing patient from the electrical source <input type="checkbox"/> *B. If the patient is still in contact with the electrical source or you are unsure, do not approach or touch the patient, contact power company <input type="checkbox"/> *C. Monitor the patient closely for respiratory and cardiac arrest <input type="checkbox"/> D. Treat the soft tissue injuries associated with the burn <input type="checkbox"/> *E. Look for both an entrance and exit wound
6. REASSESS	<input type="checkbox"/> *A. Reassess level of consciousness (<u>AVPU</u>), respiratory status, and patient response

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- ~~• Teams may use the acronym "PMS" when checking pulse, motor function and sensory function~~

~~Multiple burns will be treated as per procedures listed in patient assessment.~~

EARLY OR SUPERFICIAL FROSTBITE

PROCEDURES		CRITICAL SKILLS
1. ASSESS FOR FROSTBITE AND COLD INJURIES	<input type="checkbox"/>	D :*A. Patient exhibits signs and symptoms of frostbite or cold injuries
2. ASSESS FOR EARLY OR SUPERFICIAL FROSTBITE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A :*A. _____ Blanching of the skin - palpitation of the skin in which normal color does not return B :*B. _____ Loss of feeling and sensation in the injured area C :*C. _____ Skin remains soft D :*D. _____ If re-warmed, patient will feel a tingling sensation
3. TREAT EARLY OR SUPERFICIAL INJURY	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	*A. Remove the patient from the environment B. Protect the cold injured extremity from further injury *C. Remove wet or restrictive clothing D. Do not rub or massage E. Do not re-expose to the cold
4. REASSESS	<input type="checkbox"/>	*A. Reassess level of consciousness (<u>AVPU</u>), respiratory status and patient response

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~~**•Teams may use the acronym "PMS" when checking pulse, motor function and sensory function**~~

LATE OR DEEP COLD INJURY

PROCEDURES	CRITICAL SKILLS	
1. ASSESS FOR FROSTBITE AND COLD INJURIES	<input type="checkbox"/>	<ul style="list-style-type: none"> ▪<u>A.</u> Patient exhibits signs and symptoms of frostbite or cold injuries
2. ASSESS FOR LATE OR DEEP COLD INJURY	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<ul style="list-style-type: none"> ▪<u>*A.</u> _____ White, waxy skin ▪<u>*B.</u> _____ Firm to frozen feeling upon palpitation ▪<u>*C.</u> _____ If thawed or partially thawed, the skin may appear flushed with areas of purple and blanching or mottled and cyanotic ▪<u>*D.</u> _____ Swelling may be present ▪<u>*E.</u> _____ Blisters may be present
3. TREAT LATE OR DEEP COLD INJURY	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<ul style="list-style-type: none"> *A. Remove the patient from the environment B. Protect the cold injured extremity from further injury *C. Remove wet or restrictive clothing D. Remove jewelry E. Cover with dry clothing or dressings <u>*F.</u> Do not: <ul style="list-style-type: none"> ▪ Break blisters ▪ Rub or massage area ▪ Apply heat ▪ Re-warm ▪ Allow the patient to walk on the affected extremity
4. REASSESS	<input type="checkbox"/>	<ul style="list-style-type: none"> *A. Reassess level of consciousness (<u>AVPU</u>), respiratory status and patient response

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~~**•Teams may use the acronym "PMS" when checking pulse, motor function and sensory function**~~

MILD HYPERTHERMIA (HEAT)

PROCEDURES	CRITICAL SKILL
1. ASSESS FOR HYPERTHERMIA	<input type="checkbox"/> <ul style="list-style-type: none"> *A. Patient exhibits signs and symptoms of hyperthermia: <ul style="list-style-type: none"> ▪ Redness ▪ Muscular cramps ▪ Weakness or exhaustion ▪ Rapid heart rate ▪ Dizziness or faintness ▪ Altered mental status to unresponsive
2. PREVIOUS INTERVENTIONS	<input type="checkbox"/> <ul style="list-style-type: none"> *A. Inquire about previous interventions attempted
3. ASSESS FOR MILD HYPERTHERMIA (HEAT EXHAUSTION)	<input type="checkbox"/> <ul style="list-style-type: none"> *A. Check skin for: <ul style="list-style-type: none"> ▪ Normal to cool temperature ▪ Pale ▪ Moist
4. TREATMENT FOR MILD HYPERTHERMIA	<input type="checkbox"/> *A. Remove patient from hot environment and p Place in a cool environment <input type="checkbox"/> *B. Loosen or remove clothing <input type="checkbox"/> *CB. Cool patient by fanning <input type="checkbox"/> DC. Put in supine position with legs elevated <input type="checkbox"/> ED. Offer drinking water if patient is responsive and not nauseated <input type="checkbox"/> FE. If the patient is unresponsive or is vomiting, transport to the hospital
5. REASSESS	<input type="checkbox"/> <ul style="list-style-type: none"> *A. Reassess level of consciousness (<u>AVPU</u>), respiratory status and patient response

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~~•Teams may use the acronym "PMS" when checking pulse, motor function and sensory function~~

SEVERE HYPERTHERMIA

PROCEDURES	CRITICAL SKILL
1. ASSESS FOR HYPERTHERMIA	<input type="checkbox"/> <ul style="list-style-type: none"> •*<u>A</u>. Patient exhibits signs and symptoms of hyperthermia: <ul style="list-style-type: none"> ▪ Redness ▪ Muscular cramps ▪ Weakness or exhaustion ▪ Rapid heart rate ▪ Dizziness or faintness ▪ Altered mental status to unresponsive
2. PREVIOUS INTERVENTIONS	<input type="checkbox"/> <ul style="list-style-type: none"> 7.<u>A</u>. Inquire about previous interventions attempted
3. ASSESS FOR SEVERE HYPERTHERMIA (HEAT STROKE)	<input type="checkbox"/> <ul style="list-style-type: none"> *A. Check skin for: <ul style="list-style-type: none"> ▪ Hot temperature ▪ Red ▪ Dry or moist
4. TREATMENT FOR SEVERE HYPERTHERMIA	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <ul style="list-style-type: none"> *A. Place patient in a cool environment *B. Remove clothing *C<u>B</u>. Wet patient skin by applying water from sponge or wet towels and fan *D<u>C</u>. Put in supine position with legs elevated *E<u>D</u>. Offer drinking water if patient is responsive and not nauseated *F<u>E</u>. Apply cool packs to neck, groin and armpits *G<u>F</u>. Transport immediately
5. REASSESS	<input type="checkbox"/> <ul style="list-style-type: none"> *A. Reassess level of consciousness (<u>AVPU</u>), respiratory status and patient response

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~~•Teams may use the acronym "PMS" when checking pulse, motor function and sensory function~~

FIRST AID STATEMENTS OF FACT

1. As a member of the EMS team, your primary role is one of:
 - a. Patient care.
 - b. Safety.
 - c. Transport.
 - d. Documentation.

2. What type of consent is necessary from responsive, competent adult patients?
 - a. Implied
 - b. Applied
 - c. Absentee
 - d. Expressed

3. Which one of the following is NOT a common pathogen encountered in EMS?
 - a. Rabies
 - b. HIV
 - c. Hepatitis
 - d. Tuberculosis

4. Which one of the following types of BSI precautions is most likely going to protect you from an exposure to tuberculosis?
 - a. Gloves
 - b. Eyeglasses
 - c. HEPA mask
 - d. Gown

5. All of the following are common signs and symptoms of stress EXCEPT:
 - a. Irritability.
 - b. Difficulty sleeping.
 - c. Increased appetite.
 - d. Difficulty concentrating.

6. Take body substance isolation (BSI) precautions:
- a. For TB and HBV patients only.
 - b. For any ill or injured patient.
 - c. Only for patients who have a known infection.
 - d. Only for patients who are bleeding.
7. Which one of the following is the pathogen that most often affects the lungs and can be spread by a patient coughing?
- a. HIV
 - b. Hepatitis B
 - c. Meningitis
 - d. Tuberculosis
8. Which one of the following best describes the anatomical position?
- a. Standing upright with arms at the sides
 - b. Lying supine with arms outstretched and palms up
 - c. Standing with hands at the sides and palms forward
 - d. Lying prone with arms held straight out, palms down
9. The navel is on the _____ aspect of the body.
- a. posterior
 - b. anterior
 - c. inferior
 - d. superior
10. The spine can be felt (palpated) on the _____ aspect of the body.
- a. posterior
 - b. anterior
 - c. inferior
 - d. superior
11. The imaginary line that bisects the body into two halves (left and right) is known as the:
- a. Proximal break.
 - b. Inferior aspect.
 - c. Recumbent line
 - d. Midline.

12. Any location on the body that is closer to the midline is referred to as:

- a. medial
- b. recumbent
- c. lateral
- d. inferior

13. The thumb is considered _____ to the palm.

- a. distal
- b. proximal
- c. lateral
- d. medial

14. A bruise that is on the anterior thigh just above the knee could be described as _____ to the knee.

- a. Distal.
- b. Proximal.
- c. Lateral.
- d. Medial.

15. The chin is _____ to the mouth.

- a. superior
- b. lateral
- c. inferior
- d. medial

16. The nose is _____ to the mouth.

- a. superior
- b. lateral
- c. inferior
- d. medial

17. A patient that is found lying face down is said to be in the _____ position.

- a. recumbent
- b. lateral
- c. supine
- d. prone

18. A patient with a suspected spine injury will likely be placed on a long spine board flat on his back or in a ____ position.
- a. recumbent
 - b. lateral
 - c. supine
 - d. prone
19. The recovery position is also known as the ____ position.
- a. lateral recumbent
 - b. lateral
 - c. superior
 - d. stroke
20. The bladder is located in which body cavity?
- a. Cranial
 - b. Thoracic
 - c. Abdominal
 - d. Pelvic
21. The ____ cavity is also known as the thoracic cavity.
- a. pelvic
 - b. chest
 - c. abdominal
 - d. cranial
22. An Emergency Medical Responder should immediately move a patient EXCEPT when the patient:
- a. Has a blocked airway.
 - b. Is bleeding severely.
 - c. Has mild shortness of breath.
 - d. Is in cardiac arrest.
23. When lifting a patient, your feet should be placed:
- a. One in front of the other.
 - b. Shoulder-width apart.
 - c. A comfortable distance apart.
 - d. As close together as possible.

24. Good body mechanics means keeping your back _____ and bending at the knees when lifting a patient or large object.
- a. at a 45 degree angle
 - b. straight
 - c. curved
 - d. slightly twisted
25. Which one of the following would be the best choice for a stable patient with a suspected spine injury?
- a. one-rescuer assist
 - b. cradle carry
 - c. Two-rescuer assist
 - d. Shoulder drag
26. Which one of the following devices would be best suited to carry a responsive patient with no suspected spine injury down a flight of stairs?
- a. Flexible stretcher
 - b. Wheeled stretcher
 - c. Scoop stretcher
 - d. Stair chair
27. A good transfer of care should contain all of the following EXCEPT:
- a. Patient's name and age.
 - b. Patient's address.
 - c. Chief complaint.
 - d. Vital signs.
28. Rescue breathing is:
- a. Any effort to restart normal heart rhythms.
 - b. Any effort to revive or restore normal breathing.
 - c. The use of mechanical devices to restart breathing.
 - d. The ability to restore normal heart rhythm and breathing.
29. When performing the head-tilt/chin-lift maneuver on an adult, tilt the head:
- a. As far back as possible.
 - b. Into the sniffing position.
 - c. To get the tongue to close the epiglottis.
 - d. So that the upper and lower teeth are touching.

30. The recommended method for opening the airway of a patient with a possible neck or spine injury is the _____ maneuver.
- a. jaw-thrust
 - b. mouth-to-nose
 - c. abdominal thrust
 - d. head-tilt/chin-lift
31. Clinical death occurs when the patient's:
- a. brain cells begin to die
 - b. Breathing has stopped for four minutes.
 - c. Pulse has been absent for five minutes.
 - d. Heart beat and breathing have stopped.
32. A pocket face mask allows the rescuer to provide ventilation WITHOUT:
- a. Having to hold the mask firmly in place.
 - b. Delivering his own breaths to the patient.
 - c. Direct contact with the patient's mouth and nose.
 - d. Worrying about keeping the head and spine in-line.
33. During rescue breathing, you should check for adequate breathing by:
- a. Looking for chest rise and fall.
 - b. Listening for airflow from the mouth and nose.
 - c. Observing skin color, such as paleness or cyanosis.
 - d. Looking for chest rise and fall, listening for airflow, and observing skin color.
34. The primary muscle of respiration is the:
- a. Trachea.
 - b. Esophagus.
 - c. Diaphragm.
 - d. Pharynx.
35. The _____ prevents food and other material from entering the trachea.
- a. tongue
 - b. alveoli
 - c. pharynx
 - d. epiglottis

36. Deep within the lungs, the _____ are the tiny balloon-like structures where gas exchanges take place.
- a. alveoli
 - b. bronchioles
 - c. trachea
 - d. epiglottis
37. All of the following are signs of inadequate breathing EXCEPT:
- a. Poor chest rise.
 - b. Pale or bluish color.
 - c. Use of accessory muscles.
 - d. Good chest rise and fall.
38. When caring for an unresponsive medical patient, tilting the head back improves the airway by:
- a. Lifting the tongue from the back of the throat.
 - b. Shifting the epiglottis from the front to back.
 - c. Allowing fluids to flow more easily.
 - d. Opening the mouth.
39. An airway stoma is found on the:
- a. Chest.
 - b. Arm.
 - c. Neck.
 - d. Cheek.
40. Noisy breathing is a sign of _____ airway obstruction.
- a. bilateral
 - b. complete
 - c. adequate
 - d. partial
41. The appropriate rate of compressions during CPR is _____ per minute.
- a. 80 to 100
 - b. No faster than 80
 - c. At least 100
 - d. No faster than 120

42. What is the recommended ratio of check compressions to ventilations for an adult patient in cardiac arrest?
- a. 30 to 2
 - b. 15 to 2
 - c. 5 to 1
 - d. 3 to 1
43. You are caring for an adult victim of sudden cardiac arrest. To give this patient the best chance for survival, you should provide immediate:
- a. CPR and no defibrillation.
 - b. Defibrillation without CPR.
 - c. CPR with defibrillation within 10 minutes.
 - d. CPR with defibrillation within three minutes.
44. Which one of the following is the best reason to provide rescue breathing to a nonbreathing patient?
- a. It is an effective way to provide oxygen to the patient.
 - b. It can clear a blocked airway with little effort.
 - c. It can defibrillate the heart if done quickly enough.
 - d. It helps to circulate blood to the brain and lungs.
45. After assessing responsiveness, you must check for the presence of normal breathing. Do this by:
- a. Shaking the patient.
 - b. Looking for chest rise.
 - c. Observing pupil response.
 - d. Sweeping the mouth for obstructions.
46. You are caring for an unresponsive adult patient who is not breathing but has a pulse. You should:
- a. Provide finger sweeps.
 - b. Begin chest compressions.
 - c. Give five back blows.
 - d. Provide rescue breaths every five to six seconds.

47. Which one of the following represents the most appropriate hand location for chest compressions on an adult?
- a. at the lower half of the sternum
 - b. at the top of the sternum
 - c. over the left side of the chest
 - d. on the very bottom of the sternum
48. A common tool used in EMS to classify a patient's mental status is the _____ scale.
- a. AVPU
 - b. ABC
 - c. QRS
 - d. TUV
49. In a SAMPLE history, the E represents:
- a. EKG results.
 - b. Evaluation of the neck and spine.
 - c. Events leading to illness or injury.
 - d. Evidence of airway obstruction.
50. When assessing circulation for a responsive adult patient, you should assess:
- a. The carotid pulse.
 - b. Radial pulse on both sides of the body.
 - c. The radial pulse on one side.
 - d. The distal pulse.
51. The adequate flow of oxygenated blood to all cells of the body is called:
- a. circulation
 - b. perfusion
 - c. compensation
 - d. systole
52. When assessing a patient's respirations, you must determine rate, depth, and:
- a. Regularity.
 - b. Count of expirations.
 - c. Ease.
 - d. Count of inspirations.

53. The five most important vital signs are pulse, respirations, blood pressure, pupils, and:
- a. Oxygen saturation.
 - b. Skin signs.
 - c. Mental status.
 - d. Capillary refill.
54. The first set of vital signs obtained on any patient is referred to as the _____ set.
- a. historical
 - b. ongoing
 - c. baseline
 - d. serial
55. What can be assessed by watching and feeling the chest and abdomen move during breathing?
- a. Pulse rate
 - b. Blood pressure
 - c. Skin signs
 - d. Respiratory rate
56. Characteristics of a pulse include:
- a. Rate, depth, and ease.
 - b. Rate, strength, and rhythm.
 - c. Rate, depth, and strength.
 - d. Rate, ease, and quality.
57. The most appropriate location to obtain a pulse for an unresponsive adult is the _____ artery.
- a. brachial
 - b. femoral
 - c. carotid
 - d. radial
58. What are the two pulse points that are referred to as central pulses?
- a. radial and tibial
 - b. carotid and femoral
 - c. femoral and brachial
 - d. brachial and carotid

59. As blood pressure drops, perfusion is most likely to:
- a. Increase.
 - b. Decrease.
 - c. Fluctuate.
 - d. Remain the same.
60. Skin that is bluish in color is called:
- a. Pale.
 - b. Flushed.
 - c. Cyanotic.
 - d. Jaundice
61. The term *diaphoretic* refers to:
- a. Pupil reaction.
 - b. Skin temperature.
 - c. Heart rhythm.
 - d. Skin moisture.
62. When going from a well-lit room to a dark one, you would expect the normal pupil to:
- a. Not react.
 - b. Dilate.
 - c. Constrict.
 - d. Fluctuate.
63. Which one of the following is most accurate when describing a palpated blood pressure?
- a. It provides only the diastolic pressure.
 - b. It must be taken on a responsive patient.
 - c. It can be obtained without a stethoscope.
 - d. It can be obtained with a BP cuff.
64. A respiratory rate that is less than _____ for an adult should be considered inadequate.
- a. 4
 - b. 6
 - c. 8
 - d. 10

65. The pressure inside the arteries each time the heart contracts is referred to as the _____ pressure.
- a. diastolic
 - b. pulse
 - c. systolic
 - d. mean
66. A _____ is something the Emergency Medical Responder can see or measure during the patient assessment.
- a. symptom
 - b. history
 - c. sign
 - d. chief complaint
67. The term trending is best defined as the:
- a. Ability to spot changes in a patient's condition over time.
 - b. Name given to the last set of vital signs taken on a patient.
 - c. Transfer of care from one level of care to another.
 - d. The ability to improve a patient's condition over time.
68. After arriving on the scene, but before making patient contact, you should:
- a. Perform a primary assessment.
 - b. Contact medical direction.
 - c. Perform a secondary assessment.
 - d. Take BSI precautions.
69. There are six components to the primary assessment, beginning with:
- a. Assessing the patient's mental status.
 - b. Assessing the patient's airway.
 - c. Forming a general impression.
 - d. Evaluating patient's circulation.
70. The assessment of a patient's mental status or responsiveness includes using the _____ scale.
- a. AVPU
 - b. ABC
 - c. SAMPLE
 - d. BP-DOC

71. When assessing circulation for a responsive adult patient, you should assess the:
- a. Carotid pulse.
 - b. Radial pulses on both sides of the body.
 - c. The radial pulse on one side.
 - d. Distal pulse.
72. Blood that is returning to the heart from the lungs enters the heart at the:
- a. Right atrium.
 - b. Left atrium.
 - c. Right ventricle.
 - d. Left ventricle.
73. You are caring for a patient with difficulty breathing. She states that she has a history of asthma. You understand asthma to be a disease of the:
- a. Upper airway.
 - b. Lower airway.
 - c. Alveoli.
 - d. Trachea.
74. The respiratory control center located deep within the brain primarily monitors the level of ____ to maintain proper respiratory rate and volume.
- a. Carbon dioxide.
 - b. Carbon monoxide.
 - c. Oxygen.
 - d. Glucose.
75. Which medical condition listed below causes inflammation of the bronchioles and excess mucus production within the airways? It is also characterized by a productive cough.
- a. Asthma.
 - b. Bronchitis.
 - c. Emphysema.
 - d. Hyperventilation.

76. Which one of the medical conditions listed below results in the loss of elasticity of the lungs and the retention of carbon dioxide?
- a. Asthma.
 - b. Bronchitis.
 - c. Emphysema
 - d. Hyperventilation.
77. Altered mental status is best defined as a patient who:
- a. Is unresponsive.
 - b. Cannot speak properly.
 - c. Cannot tell what day it is.
 - d. Is not alert or responsive to surroundings.
78. A patient who is unresponsive and having full body muscle contractions is likely experiencing:
- a. Stroke.
 - b. Seizure.
 - c. Heart attack.
 - d. Respiratory distress.
79. Which one of the following is the best example of appropriate care for a seizure patient?
- a. Keep him from injuring himself and place him in the recovery position following the seizure.
 - b. Place him in a semi-sitting position and apply oxygen following the seizure.
 - c. Place him in a prone position and provide oxygen by nasal cannula.
 - d. Restrain him and assist ventilations with a bag-mask device.
80. Which one of the following is NOT evaluated as part of the Cincinnati Prehospital Stroke Scale?
- a. abnormal speech
 - b. equal circulation
 - c. facial droop
 - d. arm drift

81. Activated charcoal is only recommended for what type of poisoning?
- a. ingested
 - b. inhaled
 - c. topical
 - d. absorbed
82. What is the most commonly abused chemical in the United States?
- a. arsenic
 - b. amyl nitrate
 - c. butane
 - d. alcohol
83. A diabetic who forgets to take her insulin and continues to eat a meal will most likely become:
- a. Hypoglycemic.
 - b. Responsive.
 - c. Hyperglycemic
 - d. Short of breath.
84. In which one of the following situations is the patient losing body heat primarily by conduction?
- a. A 66-year-old male is found lying on the frozen ground without a coat.
 - b. A 14-year-old male is wearing wet clothing after falling out of his boat while fishing.
 - c. A 23-year-old female is outside in cool, windy weather.
 - d. An elderly female patient is breathing into the cool night air.
85. More serious heat-related injuries should be suspected when the patient presents with;
- a. Feeling lightheaded.
 - b. Muscle cramps.
 - c. Hot, dry, skin.
 - d. Weakness.

86. Your patient is a 34-year-old male who has been working outside in a hot, humid climate. He is alert and oriented, complaining of feeling weak and dizzy. His skin is cool and moist, and he has a heart rate of 104, a blood pressure of 110/70, and respirations of 16. You should:
- Place cold packs at the groin, armpits, and neck.
 - Move the patient to a cool area in the shade.
 - Offer the patient some salt tablets.
 - Wet the skin, turn the air conditioning on high, and vigorously fan the patient.
87. A patient who is experiencing an abnormally low body core temperature is said to be:
- Hyperthermic.
 - Cyanotic.
 - Hypothermic.
 - Hyperglycemic.
88. An injury characterized by the freezing or near freezing of a body part is known as:
- Frostbite.
 - Frostnip.
 - Hypothermia.
 - Cold bite.
89. All of the following are appropriate steps in a management of a patient with a generalized cold emergency, EXCEPT:
- Removing the patient from the cold environment.
 - Protecting him from further heat loss.
 - Providing warm liquids to drink
 - Monitoring his vital signs.
90. A patient who presents with warm, moist skin; weakness; and nausea is likely experiencing:
- heat exhaustion.
 - Heat stroke.
 - Heat cramps.
 - Mild heat stroke.

91. Your patient was hiking and was bitten on the ankle by a rattlesnake. When caring for this patient, you should:
- a. Keep the foot lower than the level of the patient's heart.
 - b. Elevate the foot on pillows.
 - c. Apply a tourniquet above the bite.
 - d. Apply ice to the area of the bite.
92. Which on of the following is NOT a typical characteristic of arterial bleeding?
- a. Blood spurts from the wound.
 - b. Blood flows steadily from the wound.
 - c. The color of the blood is bright red.
 - d. Blood loss is often profuse in a short period of time.
93. When attempting to control bleeding, which one of the following procedures will follow direct pressure?
- a. indirect pressure
 - b. tourniquet
 - c. elevation combined with direct pressure
 - d. pressure points
94. Most cases of external bleeding can be controlled by:
- a. Applying direct pressure.
 - b. Using a tourniquet.
 - c. Securing a pressure bandage.
 - d. Applying a clotting agent.
95. The material placed directly over a wound to help control bleeding is called a(n):
- a. Bandage.
 - b. Elastic bandage.
 - c. Occlusive dressing.
 - d. Dressing.

96. The tearing loose or the tearing off of a large flap of skin describes which one of the following types of wound?
- a. abrasion
 - b. amputation
 - c. laceration
 - d. avulsion
97. When providing care for an open injury to the cheek in which the object has entered through the skin into the mouth, you must ensure an open airway and:
- a. Removed the impaled object.
 - b. Turn the patient's head to one side.
 - c. Dress and bandage the outside of the wound.
 - d. Place dressings in the mouth.
98. When providing care for an open injury to the external ear:
- a. Pack the ear canal.
 - b. Use a cotton swab to clear the ear canal.
 - c. Wash out the ear canal.
 - d. Apply dressings and bandage in place.
99. Which one of the following patients is most at risk for multisystem trauma?
- a. 16-year-old who fell four feet from a ladder.
 - b. 66-year-old female ejected from a vehicle rollover.
 - c. 44-year-old male whose foot was crushed by a forklift.
 - d. 27-year-old struck in the head by a baseball bat.
100. When caring for a patient with severe burns, you must take BSI precautions and then:
- a. Stop the burning process.
 - b. Prevent further contamination.
 - c. Flush only large burn areas.
 - d. Remove jewelry.

FIRST AID STATEMENTS OF FACT - ANSWER KEY

- | | |
|-------|-----------|
| 1. B | Ch. 1 #10 |
| 2. D | Ch. 2 #3 |
| 3. A | Ch. 3 #2 |
| 4. C | Ch. 3 #3 |
| 5. C | Ch. 3 #10 |
| 6. B | Ch. 3 #13 |
| 7. D | Ch. 3 #14 |
| 8. C | Ch. 4 #1 |
| 9. B | Ch. 4 #2 |
| 10. A | Ch. 4 #3 |
| 11. D | Ch. 4 #4 |
| 12. A | Ch. 4 #5 |
| 13. C | Ch. 4 #6 |
| 14. B | Ch. 4 #7 |
| 15. C | Ch. 4 #8 |
| 16. A | Ch. 4 #9 |
| 17. D | Ch. 4 #10 |
| 18. C | Ch. 4 #11 |
| 19. A | Ch. 4 #12 |
| 20. D | Ch. 4 #13 |
| 21. B | Ch. 4 #14 |
| 22. C | Ch. 5 #2 |
| 23. C | Ch. 5 #3 |
| 24. B | Ch. 5 #4 |
| 25. D | Ch. 5 #7 |
| 26. D | Ch. 5 #10 |
| 27. B | Ch. 6 #9 |
| 28. B | Ch. 8 #1 |
| 29. A | Ch. 8 #2 |
| 30. A | Ch. 8 #3 |
| 31. D | Ch. 8 #4 |
| 32. C | Ch. 8 #5 |
| 33. D | Ch. 8 #6 |
| 34. C | Ch. 8 #11 |
| 35. D | Ch. 8 #12 |
| 36. A | Ch. 8 #13 |
| 37. D | Ch. 8 #14 |
| 38. A | Ch. 8 #15 |
| 39. C | Ch. 8 #16 |

40. D	Ch. 8 #17
41. C	Ch. 10 #1
42. A	Ch. 10 #5
43. D	Ch. 10 #6
44. A	Ch. 10 #7
45. B	Ch. 10 #10
46. D	Ch. 10 #11
47. A	Ch. 10 #13
48. A	Ch. 11 #1
49. C	Ch. 11 #2
50. C	Ch. 11 #3
51. B	Ch. 11 #4
52. C	Ch. 11 #5
53. B	Ch. 11 #6
54. C	Ch. 11 #7
55. D	Ch. 11 #8
56. B	Ch. 11 #9
57. C	Ch. 11 #10
58. B	Ch. 11 #11
59. B	Ch. 11 #12
60. C	Ch. 11 #13
61. D	Ch. 11 #14
62. B	Ch. 11 #15
63. C	Ch. 11 #16
64. D	Ch. 11 #17
65. C	Ch. 11 #18
66. C	Ch. 11 #19
67. A	Ch. 11 #20
68. D	Ch. 12 #2
69. C	Ch. 12 #3
70. A	Ch. 12 #4
71. C	Ch. 12 #6
72. B	Ch. 13 #1
73. B	Ch. 14 #1
74. A	Ch. 14 #2
75. B	Ch. 14 #7
76. C	Ch. 14 #10
77. D	Ch. 15 #1
78. B	Ch. 15 #2
79. A	Ch. 15 #3
80. B	Ch. 15 #6
81. A	Ch. 15 #8
82. D	Ch. 15 #10

83. C	Ch. 15 #11
84. A	Ch. 16 #1
85. C	Ch. 16 #2
86. B	Ch. 16 #3
87. C	Ch. 16 #4
88. A	Ch. 16 #5
89. C	Ch. 16 #6
90. A	Ch. 16 #7
91. A	Ch. 16 #8
92. B	Ch. 17 #1
93. C	Ch. 17 #2
94. A	Ch. 17 #3
95. D	Ch. 17 #4
96. D	Ch. 17 #5
97. A	Ch. 17 #7
98. D	Ch. 17 #8
99. B	Ch. 17 #9
100. A	Ch. 17 #10

