FIRST AID PROBLEM PRICE UTAH 2012



You are called to Donkey Creek Mine. A roof fall has occurred in entry 3, crosscut 36. A miner called out and said there were injuries. •

Two Person CPR 3 SETS no spinal injury

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

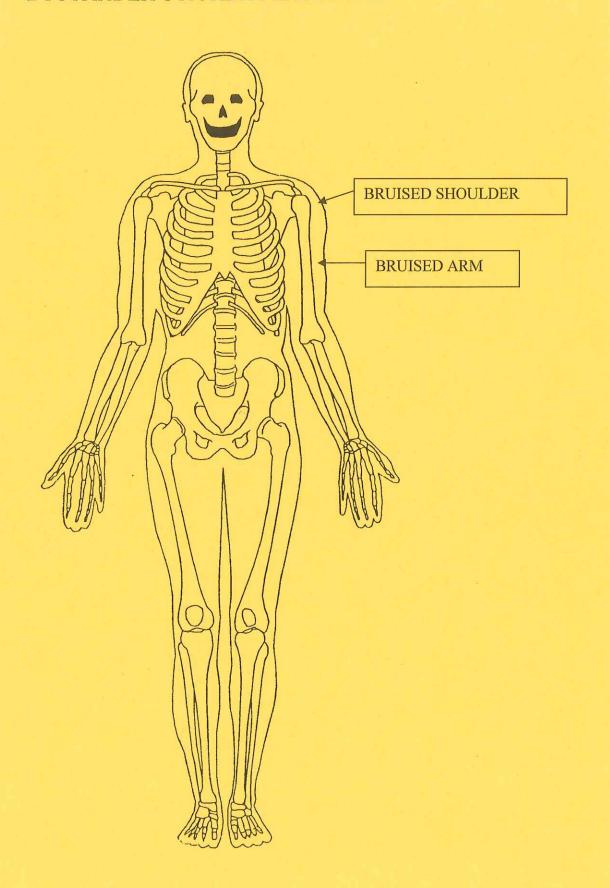
| PROCEDURES | | CRITICAL SKILL |
|----------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. RESCUER 1 – ESTABLISH UNRESPONSIVENESS | | C. Determine unconsciousness without compromising cervical spine (neck) injury C. "Call for help" |
| 2. RESCUER 1 – MONITOR PATIENT FOR BREATHING | | A. Look for absence of breathing (no chest rise and fall) or gasping breaths, which are not considered adequate (within 10 seconds) |
| 3. RESCUER 1 – CHECK FOR CAROTID PULSE | - | 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 3. Check for presence of carotid pulse for 5 to 10 seconds C. Absence of pulse |
| 4. RESCUER 2 - POSITION FOR COMPRESSIONS | _ E | A. Locate the compression point on the breastbone between the nipples 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 |
| 5. RESCUER 2 - DELIVER CARDIAC COMPRESSION | | minute (30 compressions delivered within 18 seconds) Down stroke for compression must be on or through compression line |
| 6. RESCUER 1 - ESTABLISH AIRWAY | □ A □ B. | * |

| 7. | RESCUER 1 - VENTILATIONS BETWEEN COMPRESSIONS | 0 0 0 | A. Place barrier device (pocket mask / shield with one way valve) on manikin B. Give 2 breaths 1 second each C. Each breath - minimum of .8 (through .7 liter line on new manikins) D. Complete breaths and return to compressions in 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.) |
|-----|--------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. | CONTINUE CPR FOR TIME STATED IN PROBLEM | | A. Provide 5 cycles of 30 chest compressions and 2 rescue breaths B. To check for pulse, stop chest compressions for no more than 10 seconds after the first set of CPR C. Rescuer at patient's head maintains airway and checks for adequate breathing or coughing D. The rescuer at the patient's head 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 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) |
| 9. | CHANGING RESCUERS | | 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. |
| 10. | CHECK FOR RETURN OF PULSE | | A. After providing required CPR (outlined in problem), check for return of pulse (within 10 seconds) *B. "Patient has a pulse." |

PATIENT STATEMENT

Patient can say "I am ok" or Patient can say "I hurt"

BYSTANDER STICKER PLACEMENT



PATIENT ASSESSMENT/CONSCIOUS 4 INCH 2 INCH LACERATION LACERATION MIDDLE OF BACK **RIGHT ARM PIT AMPUTATED RIGHT HAND IMPALED OBJECT LEFT** THIGH OPEN FRACTURE RIGHT TIB FIB

INITIAL ASSESSMENT

CRITICAL SKILL PROCEDURES *A. Observe area to ensure safety SCENE SIZE UP *B. Call for help *A. Determine causes of injury, if possible 2. MECHANISM OF *B. Triage: Immediate, Delayed, Minor or Deceased. **INJURY** *C. Ask patient (if conscious) what happened *A. Verbalize general impression of the patient(s) Determine responsiveness/level of consciousness 3. INITIAL **ASSESSMENT** (AVPU) Alert, Verbal, Painful, Unresponsive *C. Determine chief complaint/apparent life threat Correctly execute head-tilt/chin-lift or jaw thrust maneuver, depending on the presence of cervical spine (neck) injuries 4. ASSESS AIRWAY В. Look for absence of breathing (no chest rise and AND BREATHING fall) or gasping, which are not considered adequate (within 10 seconds) C. If present, treat sucking chest wound A. Check for presence of a carotid pulse (5-10 seconds) ASSESS FOR В. If present, control life threatening bleeding CIRCULATION Start treatment for all other life threatening injuries/conditions (reference Rule 2).

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.

DELAYED: 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 "CSM" when checking circulation, sensation, and motor function.

PATIENT ASSESSMENT

PROCEDURES

CRITICAL SKILL

| 1. HEAD | | *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 | 0 | *A. Check the neck for DOTS *B. Inspect for medical ID |
| 3. CHEST | | *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 | | *A. Check abdomen (stomach) for DOTS |
| 5. PELVIS | 0 | *A. Check pelvis for DOTS *B. Inspect pelvis for injury by touch (Verbally state inspection of crotch and buttocks areas) |
| 6. LEGS | LR | *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 |

DRESSINGS AND BANDAGING - OPEN WOUNDS

PROCEDURES

CRITICAL SKILL

| 1. EMERGENCY CARE FOR AN OPEN WOUND | *A. Control bleeding *B. Prevent further contamination *C. Bandage dressing in place after bleeding has been controlled *D. Keep patient lying still |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. APPLY DRESSING | A. Use sterile dressing B. Cover entire wound C. Control bleeding D. Do not remove dressing |
| 3. APPLY BANDAGE | A. Do not bandage too tightly B. Do not bandage too loosely C. Do not leave loose ends D. Cover all edges of dressing E. Do not cover tips of fingers and toes, unless they are injured 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 4 inch 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")

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

| PROCEDURE | | CRITICAL SKILL |
|-------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DETERMINE NEED FOR SPLINTING | □ *A. □ B. | Assess for: Pain Swelling Deformity Determine if splinting is warranted |
| 2. APPLY MANUAL STABILIZATION | □ A. | Support affected limb and limit movement Do not attempt to reduce dislocations |
| 3. SELECT APPROPRIATE SPLINT | | Select appropriate splinting method depending on position of extremity and materials available Select appropriate padding material |
| 4. PREPARE FOR SPLINTING | - *B C D. | Remove or cut away clothing as needed Assess distal circulation, sensation, and motor function Cover any open wounds with sterile dressing and bandage Measure splint |
| | _ C. | function Cover any open wounds with sterile dressing and bandage |

| | A. Maintain support while splinting |
|-------------|-------------------------------------------------------|
| | Living Splint: |
| | A. Immobilize the site of the injury |
| | B. Carefully place a pillow or folded blanket |
| | between the patients knees/legs |
| | C. Bind the legs together with wide straps or |
| | cravats |
| | D. Carefully place patient on long spine board |
| | E. Secure the patient to the long spine board (if |
| | primary splint) |
| | *F. Reassess distal circulation, sensation, and motor |
| | function |
| | Padded Board Splint: |
| | A. Splint with two long padded splinting boards |
| | (one should be long enough to extend from the |
| | patient's armpit to beyond the foot. The other |
| | should extend from the groin to beyond the |
| | foot.) (Lower leg requires boards to extend from |
| 5. SPLINT | knee to below the foot.) |
| | B. Cushion with padding in the armpit and groin |
| | and all voids created at the ankle and knee |
| | C. Secure the splinting boards with straps and |
| | cravats |
| | D. Carefully place the patient on long spine board |
| | E. Secure the patient to the long spine board (if |
| | primary splint) |
| | *F. Reassess distal circulation, sensation, and motor |
| | function |
| | Other Splints: |
| | A. Immobilize the site of the injury |
| | B. Pad as needed |
| | C. Secure to splint distal to proximal |
| | D. Carefully place patient on long spine board |
| | E. Secure the patient to the long spine board (if |
| | primary splint) |
| | *F. Reassess distal circulation, sensation, and motor |
| | function |
| 6. REASSESS | *A. Assess patient response and level of comfort |

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SPLINTING UPPER EXTREMITY/LOWER EXTREMITY FRACTURES (AIR SPLINT)

PROCEDURES CRITICAL SKILL

| 1 | |
|---|-------------------------------------------------------|
| | *A. Assess distal circulation, sensation, and motor |
| | function(fingers/toes) |
| | A. Grasp above and below the injury site |
| | B. Maintain support |
| 0 | C. Properly apply air splint |
| | D. Splint should be relatively free of wrinkles |
| | E. Inflate splint to point that slight dent can be |
| | made |
| | *F. Reassess distal circulation, sensation, and motor |
| | function (fingers/toes) |
| | *A. Periodically check for increase or decrease in |
| | pressure |
| | *B. Monitor pressure in splint with finger tip |
| | C. Make sure desired pressure is maintained |
| | *D. Reassess distal circulation, sensation, and motor |
| | function (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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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

<u>Amputations</u>

- *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:

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.

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