Harlan County Safety Days July 22 - 24, 2014





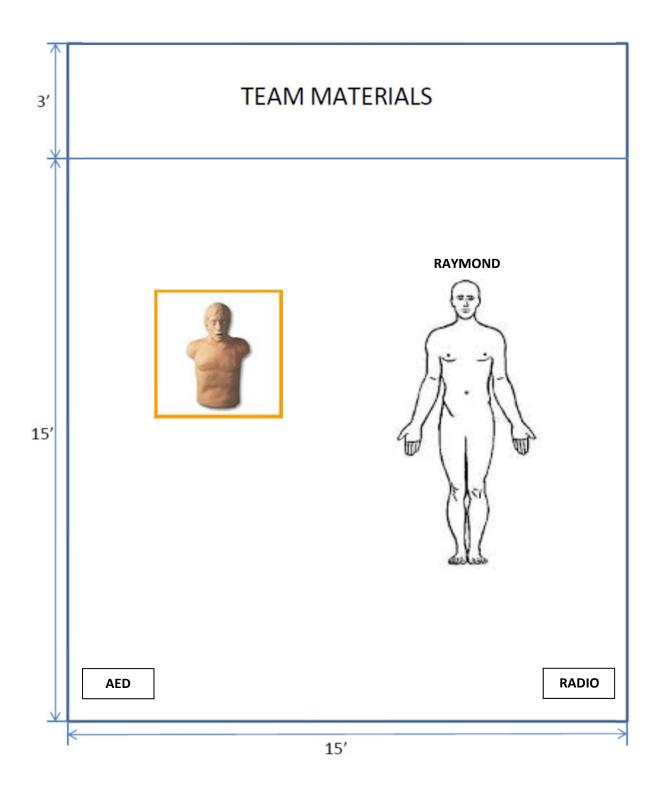


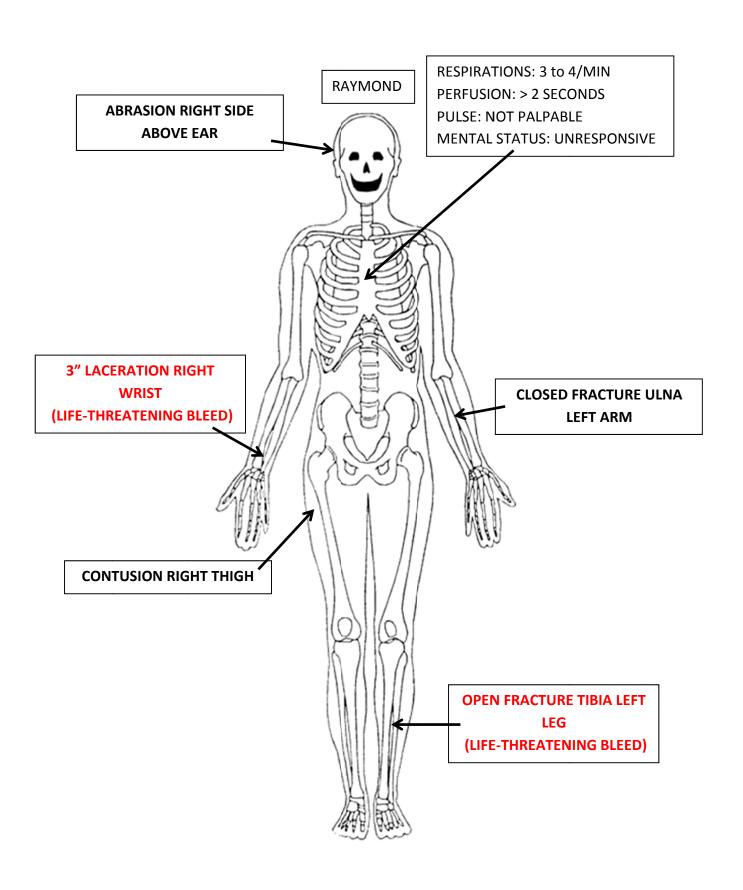
First Aid Problem

PROBLEM

ON A FRIDAY AFTERNOON, YOU AND YOUR PARTNER ARE AT THE MINE RESCUE STATION CONDUCTING YOUR MONTHLY PRACTICE WHEN CARLOS COMES RUSHING IN. CARLOS IS FRANTIC AND FXPLAINS THAT HE AND RAYMOND WERE IN THE MINE OFFICE CHANGING OUT LIGHT BULBS WHEN RAYMOND SUDDENLY COLLAPSED AND FELL TO THE FLOOR. CARLOS STATED THAT RAYMOND WAS ON A LADDER ABOUT 3 FEET OFF THE FLOOR WHEN HE COLLAPSED. CARLOS SHOOK RAYMOND AND ATTEMPTED TO SEE IF HE WAS ALRIGHT BUT RECEIVED NO RESPONSE FROM RAYMOND. YOU ARE PERSONALLY FAMILIAR WITH RAYMOND AND KNOW THAT HE IS IN HIS MID 40'S, HAS A HISTORY OF HIGH BLOOD PRESSURE, HAS PREVIOUSLY HAD STINTS PLACED, AND HAS A FAMILY HISTORY OF HEART ATTACK. CARLOS **OUICKLY TAKES YOU TO WHERE RAYMOND IS LOCATED** AND SAYS HE IS GOING TO THE FRONT GATE TO WAIT FOR EMS TO ARRIVE. PLEASE CALL FOR HELP AND HELP RAYMOND AS BEST AS YOU CAN AND PREPARE HIM FOR TRANSPORT.

FIELD LAYOUT





LIST OF INJURIES

ABRASION RIGHT SIDE ABOVE EAR

CONTUSION RIGHT THIGH

OPEN FRACTURE TIBIA LEFT LEG (LIFE-THREATENING BLEED)

3" LACERATION RIGHT WRIST (LIFE-THREATENING BLEED)

CLOSED FRACTURE ULNA LT ARM

INITIAL ASSESSMENT

CRITICAL SKILL

PROCEDURES

1. SCENE SIZE UP	*A. Observe area to ensure safety *B. Call for help
2. MECHANISM OF INJURY	*A. Determine causes of injury, if possible *B. Triage: Immediate, Delayed, Minor or Deceased. *C. Ask patient (if conscious) what happened
3. INITIAL ASSESSMENT	*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 threat
4. ASSESS AIRWAY AND BREATHING	 A. Correctly execute head-tilt/chin-lift or jaw thrust maneuver, depending on the presence of cervical spine (neck) injuries B. Look for absence of breathing (no chest rise and fall) or gasping, which are not considered adequate (within 10 seconds) C. If present, treat sucking chest wound

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.

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

PROCEDURES CRITICAL SKILL

1. RESCUER 1 -	*B.	Tap or gently shake shoulders "Are you OK?" Determine unconsciousness without compromising
ESTABLISH UNRESPONSIVENESS		cervical spine (neck) injury "Call for help" "Get AED" (Note: If AED is used, follow local protocol)

AUTOMATED EXTERNAL DEFIBRILLATOR

	PROCEDURES			CRITICAL SKILL
			*A.	Check for response
1.	ASSESSES		*B.	Checks for no breathing or no normal breathing, only gasping (5-10 seconds)
2.	ACTIVATE		*A.	Emergency response system
3.	CHECKS FOR PULSE		*A.	No more than 10 seconds
			A.	Correct compression hand placement
			В.	Adequate Rate: At least 100/min. (i.e., delivers each set of 30 chest compressions in 18 seconds or less)
4.	GIVES HIGH-QUALITY CPR		C.	Adequate Depth: Delivers compressions at least 2 inches in depth (at least 23 out of 30)
			D.	Allows complete chest recoil (at least 23 out of 30)
			E.	Minimizes interruptions: Gives 2 breaths with pocket mask in less than 10 seconds
	5. SECOND RESCUER ARRIVES WITH AED (DURING FIFTH SET OF COMPRESSIONS)		A.	First rescuer continues compressions while second rescuer turns on AED and applies pads
5.			*B.	RESCUERS SWITCH - First rescuer clears victim, allowing AED to analyze
				GIVE TEAM ENVELOPE #1 STATING "SHOCK ADVISED"
			*C.	If AED indicates a shockable rhythm, first rescuer clears victim again and delivers shock.
			A.	Second rescuer gives 30 compressions immediately after shock delivery (2 cycles)
6.	RESUME HIGH-		В.	First rescuer successfully delivers 2 breaths
	6. QUALITY CPR			GIVE TEAM ENVELOPE #2 STATING "PATIENT IS BREATHING NORMALLY AND HAS A PULSE"

INITIAL ASSESSMENT (CONT.)

5. ASSESS FOR CIRCULATION	 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
	C. Start treatment for all other life threatening
	injuries/conditions (reference Rule 2).

LIFE-THREATENING BLEEDING **OPEN FRACTURE TO TIBIA OF LT LEG**

PROCEDURES	CRITICAL SKILL
	*A. Apply direct pressure with a gloved hand
	*B. Apply a dressing to wound (cover entire wound) and continue to apply direct pressure
	*C. Elevate the extremity except when spinal injury
4 DIDUCT PROCLING	exists
1. DIRECT PRESSURE AND ELEVATION	GIVE ENVELOPE #3 STATING "BLEEDING HAS BEEN CONTROLLED"
	*D. Bleeding has been controlled
	*E. If controlled, bandage dressing in place

External Bleeding
To Control: 1st: direct pressure
2nd: elevation & direct pressure

3rd: pressure point Last Resort: Tourniquet

DRESSINGS AND BANDAGING - OPEN WOUNDS OPEN FRACTURE TO TIBIA OF LT LEG

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 dressingB. Cover entire woundC. Control bleedingD. 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.

LIFE-THREATENING BLEEDING 3" LACERATION TO RT WRIST

PROCEDURES CRITICAL SKILL

2. DIRECT PRESSURE AND ELEVATION	*F. Apply direct pressure with a gloved hand *G. Apply a dressing to wound (cover entire wound) and continue to apply direct pressure *H. Elevate the extremity except when spinal injury exists GIVE ENVELOPE #4 STATING "BLEEDING HAS BEEN CONTROLLED"
	*I. Bleeding has been controlled *J. If controlled, bandage dressing in place

External Bleeding

To Control: 1st: direct pressure

2nd: elevation & direct pressure

3rd: pressure point Last Resort: Tourniquet

DRESSINGS AND BANDAGING - OPEN WOUNDS

3" LACERATION TO RT WRIST

PROCEDURES

CRITICAL SKILL

4. EMERGENCY CARE FOR AN OPEN WOUND	 *E. Control bleeding *F. Prevent further contamination *G. Bandage dressing in place after bleeding has been controlled *H. Keep patient lying still
5. APPLY DRESSING	E. Use sterile dressingF. Cover entire woundG. Control bleedingH. Do not remove dressing
6. APPLY BANDAGE	 G. Do not bandage too tightly. H. Do not bandage too loosely. I. Do not leave loose ends. J. Cover all edges of dressing. K. Do not cover tips of fingers and toes, unless they are injured. L. Bandage from the bottom of the limb to the top (distal to proximal) if applicable.

PATIENT ASSESSMENT

PROCEDURES

CRITICAL SKILL

1.	HEAD			*A. *B. *C. *D. *E. *F. *G.	Check head for DOTS: Deformities, Open wounds, Tenderness and Swelling Check and touch the scalp Check the face Check the ears for bleeding or clear fluids Check the eyes for any discoloration, unequal pupils, reaction to light, foreign objects and bleeding Check the nose for any bleeding or drainage Check the mouth for loose or broken teeth, foreign objects, swelling or injury of tongue, unusual breath odor and discoloration
2.	NECK	[]	*A. *B.	Check the neck for DOTS Inspect for medical ID
3.	CHEST	0		*A. *B. *C.	Check chest area for DOTS Feel chest for equal breathing movement on both sides Feel chest for inward movement in the rib areas during inhalations
4.	ABDOMEN			*A.	Check abdomen (stomach) for DOTS
5.	PELVIS	0		*A. *B.	Check pelvis for DOTS Inspect pelvis for injury by touch (Visually inspect and verbally state inspection of crotch and buttocks areas)
6.	LEGS	L	R	*A. B. C. *D.	Check each leg for DOTS Inspect legs for injury by touch Unresponsive: Check legs for paralysis (pinch inner side of leg on calf) Responsive: Check legs for motion; places hand on bottom of each foot and states "Can you push against my hand?" Check for medical ID bracelet
7.	ARMS	L	R	*A. B. C. *D.	Check each arm for DOTS Inspect arms for injury by touch Unresponsive: Check arms for paralysis (pinch inner side of wrist) Responsive: Check arms for motion (in a conscious patient; team places fingers in each hand of patient and states "Can you squeeze my fingers?" Check for medical ID bracelet
8.	BACK SURFACES	Г]	*A.	Check back for DOTS

IMMOBILIZATION - LONG SPINE BOARD (Backboard)

PROCEDURES

CRITICAL SKILL

		One First Aid Provider at the head must
		maintain in-line immobilization of the head
		and spine First Aid Provider at the head directs the
		movement of the patient
		Other First Aid Provider control movement of
		the rest of body
	D.	Other First Aid Provider position themselves
		on same side
1. MOVE THE PATIENT		Upon command of First Aid Provider at the
ONTO THE LONG		head, roll patient onto side toward First Aid
SPINE BOARD		Providers Ovidely assess postorior body, if not already
		Quickly assess posterior body, if not already done
		Place long spine board next to the patient with
		top of board beyond top of head
		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
		Slide patient into proper position using smooth coordinated moves keeping spine in alignment
		1 0 1
2. PAD VOIDS BETWEEN		Select and use appropriate padding
PATIENT AND LONG		Place padding as needed under the head
SPINE BOARD	C.	Place padding as needed under torso
3. IMMOBILIZE BODY	A.	Strap and secure body to board ensuring spinal
TO THE LONG SPINE		immobilization, beginning at shoulder and
BOARD		working toward feet
	A.	Using head set or place rolled towels on each
4. IMMOBILIZE HEAD		side of head
TO THE LONG SPINE		Tape and/or strap head securely to board,
BOARD		ensuring cervical spine immobilization
	*A.	Reassess distal circulation, sensation, and
5. REASSESS		motor function
	*B.	Assess patient response and level of comfort

SHOCK

PROCEDURES

CRITICAL SKILL

CHECK FOR SIGNS AND SYMPTOMS OF SHOCK	*A. Check for pale (or bluish) skin (in victim with dark skin examine inside of mouth and nailbeds for bluish coloration. *B. Check for cool, clammy skin *C. Check for weakness
2. TREATMENT	 A. Keep victim lying down 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) C. Elevate according to injury *D. Reassure and calm the 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.