

Mine Rescue

CPR

Problems



CPR PROBLEM

DURING THE FIRE FIGHTING EFFORTS AT THE BLACK CREEK MINE #3 A MINE RESCUE TEAM MEMBER HAS WENT UNCONSCIOUS. OTHER TEAM MEMBERS RUSH HIM OUT OF THE AIR LOCK DOORS TO THE FRESH AIR BASE WHERE YOUR TEAM IS WAITING. YOU ARE TOLD THAT THERE IS NO BREATHING AND NO PULSE. AFTER TWO SETS OF CPR HIS PULSE AND BREATHING RETURNS. PERFORM TWO-RESCUER CPR (NO SPINAL INJURY).

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

| PROCEDURES | CRITICAL SKILL |
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| 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. "Get AED" (Note: If AED is used, follow local protocol) |
| 2. RESCUER 1 - MONITOR PATIENT FOR BREATHING | <input type="checkbox"/> 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 | <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 |
| 4. RESCUER 2 - POSITION FOR COMPRESSIONS | <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. Keep heel of your hand on chest during and between compressions. |
| 5. RESCUER 2 - DELIVER CARDIAC COMPRESSION | <input type="checkbox"/> A. Give 30 compressions <input type="checkbox"/> B. Compressions are at the rate of at least 100 per minute (30 compressions delivered within 18 seconds) <input type="checkbox"/> C. Down stroke for compression must be on or through compression line <input type="checkbox"/> D. Return to baseline on upstroke of compression |
| 6. RESCUER 1 - ESTABLISH AIRWAY | <input type="checkbox"/> A. Kneel at the patient's side near the head <input type="checkbox"/> B. Correctly execute head-tilt/ chin-lift maneuver |

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| <p>7. RESCUER 1 - VENTILATIONS BETWEEN COMPRESSIONS</p> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <p>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.)</p> |
| <p>8. 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 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)</p> |
| <p>9. 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>10. 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) *B. "Patient has a pulse."</p> |