

COMBAT MEDIC/CORPSMAN TACTICAL COMBAT CASUALTY CARE

CPR IN TACTICAL FIELD CARE (TFC) SKILL INSTRUCTIONS

03 MAR 2021





SKILL INSTRUCTIONS



BILATERAL NEEDLE DECOMPRESSION OF THE CHEST (NDC) INSTRUCTION

TASK: Perform bilateral NDC

CONDITION: Given a casualty in the Tactical Field Care phase with significant torso trauma or

polytrauma with no pulse or respirations

STANDARD: Perform a bilateral NDC in 3 minutes or less without causing further injury to

the casualty

EQUIPMENT: Combat Lifesaver (CLS)/medic aid bag, exam gloves, 14- or 10-gauge, 3.25 in.

needle/catheter unit, alcohol or povidone-iodine pad, and sharps container

PERFORMANCE MEASURES: step-by-step instructions

NOTE: Consider body substance isolation.

NOTE: If a CLS is available, direct them to assist.

01 Assess the casualty for signs of torso trauma or polytrauma with no pulse or respirations.

02 Identify insertion sites for bilateral NDC.

NOTE: Either of two sites can be used on each side of the chest, whichever one is more accessible:

- (a) Fifth intercostal space (ICS) in the anterior axillary line.
- (b) Second ICS in the midclavicular line (MCL).

NOTE: If the second ICS at the MCL site is used, **do not** insert the needle medial to the nipple line.

- **03** Secure a 14-gauge or a 10-gauge, 3.25 in. needle/catheter unit.
 - **NOTE:** Remove the Luer lock cap from the needle catheter (if applicable).
- **04** If available, use an antiseptic solution or a pad to clean the site.
- Insert the needle/catheter just over the top of the lower rib at the insertion site, at a 90-degree angle (perpendicular) to the chest wall, advancing it to the hub.
- Leave the needle catheter in place for 5–10 seconds to allow decompression to occur; then remove the needle, leaving the catheter in place.
- **07** Assess for successful needle decompression. Signs of success include:
 - (a) An obvious hissing sound is heard as air escapes from the chest when NDC is performed.

NOTE: This may be difficult to appreciate in high-noise environments.

- (b) A casualty with no vital signs has a return of consciousness and/or pulses.
- (c) Hemoglobin oxygen saturation increases to 90% or greater.
- **08** If the first NDC is unsuccessful, then perform a second NDC on the opposite side of the chest using a new 14-gauge or 10-gauge, 3.25 in. needle/catheter unit, repeating steps 2–7.
- O9 If the casualty is responsive to NDC with return of vital signs, place them in a position of comfort, or the recovery position with injured side down, to aid respiratory efforts, and continue MARCH-PAWS (Massive hemorrhage, Airway, Respirations, Circulation, Head injury/Hypothermia, Pain treatment, Antibiotics, Wound(s) treatment, and Splinting) trauma assessment and treatment.
- 10 If bilateral NDC is not successful, consider discontinuing care.
- 11 Document all findings and treatments on a DD Form 1380 TCCC Casualty Card and attach to the casualty.

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