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| **Skill Sheet** |
| **Intravenous Infusion of Ketamine** |
| **Objective:** **DEMONSTRATE** the correct procedure foradministering the recommended dose of ketamine via the intravenous route. |
| **References:** |
| Tactical Combat Casualty Care for Medical Personnel. |
| **Evaluation:** Students will be evaluated as a Pass/Fail (P/F). The instructor will verify the student’s ability to administer ketamine intravenously by observing the student’s procedure and technique. |
| **Materials:** |
| Rugged field saline lock materials |
| IV medication trainer |
| Simulated 20-ml multi-dose vial of ketamine, 10 mg/ml  10-cc syringe  One-inch, 18-ga needles  NS, 100-cc mini-bag  Alcohol swabs  TCCC Card (DD Form 1380)  Sharps container |
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| **Instructor Guidelines:** |
| 1. Ensure each student has all required materials. |
| 1. Read the Learning Objective and the evaluation method to the students. |
| 1. Explain the grading of the exercise. |
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| **Performance Steps:** |
| 1. Prepare and inspect equipment. |
| 1. Initiate a rugged field saline lock on the IV trainer. 2. Explain the procedure as if to the casualty and verbalize the need to ask about known allergies. |
| 1. On the simulated medication vial, confirm the correct concentration of ketamine – 10 mg/ml. |
| 1. Clean the top of the vial with an alcohol swab. |
| 1. Attach a needle to the 10-cc syringe. |
| 1. Draw 2 cc of air into the syringe. |
| 1. Insert the needle into the vial and inject 2cc of air. |
| 1. Withdraw 2 cc of simulated ketamine solution into the syringe. 2. Confirm a total dose of 20 mg of ketamine in the syringe. |
| 1. Withdraw the needle from the vial. 2. Detach the used needle from the syringe and discard it into the sharps container. |
| 1. Attach a new needle to the syringe. 2. Clean the port on the 100-cc mini-bag of NS with an alcohol swab. 3. Insert the needle into the port of the mini-bag. 4. Draw 8 cc of NS into the syringe. 5. Withdraw the needle from the port of the mini-bag. 6. Detach the used needle from the syringe and discard it into the sharps container. 7. Attach a new needle to the syringe. 8. Clean the injection port on the saline lock with an alcohol swab. |
| 1. Insert the needle into the port. 2. Push in the 10 cc of diluted simulated ketamine solution over one minute. |
| 1. Withdraw the needle from the port. |
| 1. Discard the needle/syringe into the sharps container. |
| 1. Verbalize observing the casualty for the desired clinical effect and adverse side effects. 2. Document medication administration on the TCCC card. |

Administer Ketamine Intravenously

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| **Task** | **Completed** | | |
|  | **1st** | **2nd** | **3rd** |
| Prepared and inspected equipment. | **P / F** | **P / F** | **P / F** |
| Explained the procedure to the instructor, in lieu of a casualty, and mentioned the need to inquire about known allergies. | **P / F** | **P / F** | **P / F** |
| Assured correct concentration of ketamine. |  |  |  |
| Correctly diluted 2 cc of simulated ketamine solution (10 mg/ml) in 8 cc of NS for a total dose of 20 mg of simulated ketamine in 10 cc total volume in the syringe. | **P / F** | **P / F** | **P / F** |
| Infused the 10 cc of simulated ketamine solution over one minute. | **P / F** | **P / F** | **P / F** |
| Verbalized observing the casualty for desired clinical effect and adverse side effects. | **P / F** | **P / F** | **P / F** |
| Properly discarded needles and syringe. |  |  |  |
| Maintained aseptic technique throughout. | **P / F** | **P / F** | **P / F** |
| Documented administration of ketamine on the TCCC card. | **P / F** | **P / F** | **P / F** |

**Critical Criteria:**

\_\_\_\_\_ Did not check for medication allergy.

\_\_\_\_\_ Did not properly mix the correct dose of ketamine in the syringe.

\_\_\_\_\_ Did not infuse the contents of the syringe over one minute.

\_\_\_\_\_ Violated aseptic technique.

\_\_\_\_\_ Did not properly dispose of needles and/or syringe.

**Evaluator's Comments:**

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| Student Name: |  | | Date: | |  | | |
| Evaluator: |  | Pass: | |  | | Fail: |  |