

Skill Sheet 020509

Ruggedized Field IV

Objective: DEMONSTRATE the appropriate procedure for initiating a rugged IV field setup

References:

PHTLS (Military Edition) Seventh Edition Elsevier, Mosby

Evaluation: Students will be evaluated as a Pass/Fail (P/F). The instructor will verify the accuracy of the student's ability to initiate a saline lock on an intravenous therapy trainer and/or fellow student by means of observing the student's procedures and technique.

Materials:

Student Checklist

Fully loaded medical aid bag to include: IV line, IV solution (500mL recommended), administration set (tourniquet, alcohol pads, gloves), 18g needle/catheter, saline lock connector, Tegaderm dressing, 5cc syringe with saline.

Instructor Guidelines:

1. Provide each instructor with a Student Checklist.
2. Ensure student has all student-required materials.
3. Read the Learning Objective and the evaluation method to the student.
4. Explain the grading of the exercise.
5. Allow time for the students to extract the information required from the instructor-provided scenario.

Performance Steps:

1. Verbalizes the indications for an IV in TCCC.
2. Prepare and inspect equipment. (No specific order)
 - Open saline lock packaging enough to pull it out when needed.
 - Open the transparent (Tegaderm) dressing and place it where it is readily accessible
 - Open and inspect IV bag
 - Open and inspect IV tubing then close flow-regulator
 - Attach 18g needle to end of IV line (Note: leave needle cap on)
 - Spike IV bag with IV tubing and flush line and 18g needle with saline solution
 - Explained procedure to patient and asked about known allergies.
3. Apply IV tourniquet a minimum of 2 inches above venipuncture site.
4. Don gloves.
5. Clean site with alcohol or povidine pad.
6. Insert 18g catheter
 - Open 18g catheter and inspect - insert into vein
 - Places a finger (non-dominant hand) over the vein at the catheter tip and tamponade the vein preventing blood from flowing out the catheter.
 - Remove needle and secure sharp end in sharps container.

7. Attach the saline lock connector (dominant hand) to the catheter hub.
8. Release tamponade and IV tourniquet.
9. If not starting an infusion right away, flush the catheter with 5cc of sterile IV fluid to prevent it from clotting.

10. Apply a transparent dressing (Tegaderm), covering both the catheter and the saline lock connector.
11. Insert IV into saline lock
 - Uncap 18g needle on IV line
 - Insert needle thru Tegaderm dressing into saline lock
 - Open flow regulator on IV line
 - Drop the solution container lower than the casualty's heart to observe for a backflash of blood into the IV tubing.
 - Rehang the solution container at least 2 feet above the level of the casualty's heart.
 - Adjust the flow-regulator to desired flow rate
12. Secure exposed needle sharp, if not already done.
13. If time permits, label a piece of tape with date/time initiated and initials; secure the tape over the transparent dressing
14. Monitor the casualty and continue to observe the site for signs of infiltration. Discontinue the IV and saline lock if signs are observed
15. Remove gloves and dispose of them appropriately
16. Document the procedure on the appropriate medical form

Initiate Rugged Field IV Setup

Task	Completed		
	1st	2nd	3rd
Verbalized the indications for an IV in TCCC.	P / F	P / F	P / F
Prepared and inspected equipment.	P / F	P / F	P / F
Explained the procedure to the casualty (if conscious) and asked about known allergies.	P / F	P / F	P / F
<i>INSTRUCTOR: Observe to ensure there is no violation of aseptic technique; if in doubt, discard the needle and/or saline lock connector, obtain new equipment and repeat the step</i>			
Donned gloves.	P / F	P / F	P / F
Ensured aseptic technique	P / F	P / F	P / F
Successfully gained venipuncture	P / F	P / F	P / F
Attached the saline lock connector to the catheter hub.	P / F	P / F	P / F
Applied a transparent dressing, covering both the catheter and the body of the saline lock connector.	P / F	P / F	P / F
Flushed the saline lock connector with sterile saline.	P / F	P / F	P / F
Checks IV for patency	P / F	P / F	P / F
<i>INSTRUCTOR: Observe to ensure there is no violation of aseptic technique by the student; if in doubt, discard the saline lock connector, obtain new equipment and repeat the step.</i>			
<i>INSTRUCTOR: Administratively gain control of the needle and syringe unit and place it in a sharps container.</i>			
Labeled a piece of tape with date/time initiated and their initials; secured the tape over the dressing.	P / F	P / F	P / F
Monitored the casualty and continued to observe the venipuncture site for signs of infiltration.	P / F	P / F	P / F
Removed gloves and disposed of all trash appropriately.	P / F	P / F	P / F
Documented the procedure on the appropriate medical form.	P / F	P / F	P / F

Critical Criteria:

- _____ Did not know the correct indications for an IV in TCCC
- _____ Failed to establish IV
- _____ Did not flush the saline lock within 2 minutes.
- _____ Violated aseptic technique.
- _____ Performed the procedure in a manner that was dangerous to the casualty.

Evaluator's Comments:

Student Name: _____ Date: _____

Evaluator: _____ Pass: _____ Fail: _____