			Procedure/S	kill Evaluation
Student:	_ Level: □ EMT-	I A CC P	Date:	
	Time:			
Evaluator:	Start:	End:	Total:	Pass/Fail

Intravenous Access Using Saline Lock

Conditions	The candidate should perform this skill on a simulated patient under existing indoor, ambulance, or outdoor lighting, temperature, and weather conditions. Establish patent intravenous line within 6 minutes.
Indications	A patient who requires or may potentially require administration of fluids or intravenous medications.
Red Flags	Prep the site with as much aseptic technique as possible under field conditions. Do not to start an IV on the same arm as a dialysis shunt. IV infiltration, especially when medications are being administered, can cause serious and irreversible tissue damage. Do not use areas of burned skin or heavy vein scarring.

Don appropriate standard precautions				
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Prepare Equipment – Saline Lock				
Prepare saline lock				
Draw approximately 10 ml of normal saline into syringe				
Check date, clarity				
Select saline lock/extension set				
Connect syringe to saline lock, flush out air				
Disconnect syringe and refill with saline to 10 ml				
Reconnect syringe to saline lock				
Prepare cannulation equipment				
Select proper size angiocath				
Consider intended use (e.g., fluid therapy, medication line)				
Consider size, fragility of vein				
Gather tourniquet, gauze pad, alcohol prep, tape/commercial securing device				
Prepare blood draw equipment, if needed				
Prepare Equipment – IV Fluids				
Proper fluid (1) Clarity (1) Expiration (1)				
Select appropriate administration set				
Connects IV tubing to the IV bag				
Prepares administration set (fills drip chamber and flushes tubing)				
Prepare Cannulation Site				
Apply tourniquet or blood pressure cuff (inflated to just below diastolic BP)				
Proximal to wrist for hand veins				
Proximal to elbow for forearm veins				
Select site				
Between knuckles, dorsal thumb, back of hands, ventral forearms, ventral elbow				
Palpate and look for veins that are straight and do not bifurcate nearby				
Cleanse site				

Wipe visible dirt from site with alcohol prep pad	
Repeat with fresh alcohol prep pads until they are visibly clean after wiping	
Use fresh alcohol/iodine prep pad to wipe site outward, in a spiral motion	
Do not palpate after wiping	
Control site	
Use nondominant hand to hold patient's hand/arm, pulling skin taut	
Ensure fingers are not in the potential path of needle	
Perform Procedure	
Position angiocath correctly in hand	
Bevel on needle facing upward	
Flashback chamber visible	

Index finger of alternate hand able to slide catheter over needle easily
Along path of vein at a <45° angle to skin surface
Attempt to advance directly into vein with one smooth motion, without stopping
Monitor for and verbalize flashback
After flashback, advance angiocath an additional 1-2mm into vein
Advance catheter with index finger while simultaneously pulling needle out
If angiocath designed for needle-stick protection, advance until device engages
Remove tourniquet
Disconnect needle from catheter hub
Use finger of nondominant hand to occlude vein proximal to end of catheter
Immediately place needle in approved sharps container
Connect saline lock (and/or IV tubing) to catheter hub
Slowly administer 10 ml of saline from syringe to check IV patency
Should flow freely and evenly
Inspect/palpate around cannulation site for infiltration (swelling/rigidity)
If infiltrated, immediately turn off fluids and discontinue IV
Engage clamp on saline lock while administering fluid
Disconnect syringe and replace appropriate cap(s) to seal saline lock
Secure Site and Tubing
Secure venipuncture site
Utilize transparent commercial device, if available (e.g., Veniguard®, Bio-occlusive®)
Otherwise, wrap tape in "awareness ribbon" pattern around hub
Secure saline lock with tape

Critical Criteria:

Use appropriate standard precautions
Maintain aseptic technique throughout procedure
Avoid catheter shear by not reinserting needle into catheter
Observe for infiltration
Establish a patent IV line within 6 minutes
Dispose of sharps in an appropriate container