**US Guided PIV Placement Mastery Check List**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_ Level of Training: MD/DO RN EMT \_\_\_\_\_\_\_\_\_\_\_

Indications: (student should be able to name 3)

□ Obese patients

□ Edematous or hypovolemic patients whose veins aren’t readily visible on the surface

□ Patients with vein-debilitating conditions, such as sickle cell disease or cancer

□ Patients who have undergone repeated venipuncture (such as to monitor or manage chronic medical conditions)

□ Patients with spasticity of the extremities limiting access to typical IV sites

□ Patients who have had more than 2 PIV attempts using traditional PIV placement methods

Contraindications: (student should be able to name 2)

□ Cellulitis or burn overlying the insertion site (In the absence of other alternatives, cellulitis overlying the selected site does not preclude IV placement)

□ AV fistulas

□ DVTs

□ Veins deeper than 1.5cm

Complications: (student should be able to name 2)

□ Bleeding

□ Infection

□ Extravasation of fluid or medications

□ Arterial catheterization

□ Nerve bundle puncture

**PROCEDURAL CHECK LIST**

|  |  |  |  |
| --- | --- | --- | --- |
| **Check List Task** | **Yes** | **No** | **Comments** |
| Gather appropriate equipment(US machine, gel, IV catheter, tourniquet, alcohol swab, 2x2 gauze, T piece connector, IV secure kit, syringe, flush) |  |  |  |
| **Wash Hands \*\*\*** |  |  |  |
| **Wear gloves\*\*\*** |  |  |  |
| Properly input patient information (Name, MRN, initials) |  |  |  |
| Place tourniquet |  |  |  |
| **Select proper settings\*\*\***  Probe: linear  Application: Vascular  Depth: 2-3cm  Gain: adjust to show anechoic vessel |  |  |  |
| Properly position ultrasound machine in direct view of the student with patient in comfortable position |  |  |  |
| **Demonstrate vessel is venous (at least one of 3) and save image or clip\*\*\***  Collapsibility  Color flow  Augmentation |  |  |  |
| **Disinfect area\*\*\*** |  |  |  |
| Choose appropriate size needle (determine vein depth) |  |  |  |
| Align vessel in middle of the screen (may use guideline) |  |  |  |
| **Insert IV catheter at the midpoint of the probe and follow tip to vessel demonstrating proper advancement technique\*\*\*** |  |  |  |
| **Show needle is present in vein and save image (short or long axis view)\*\*\*** |  |  |  |
| **Decrease angle and advance IV catheter over needle maintaining view of needle inside the vessel\*\*\*** |  |  |  |
| **Confirm placement with drawback and flush with 3-5cc saline (check for extravasation)\*\*\*** |  |  |  |
| Secure IV |  |  |  |
| End exam and clean US probe with CaviWipe (no EtOH or bleach) |  |  |  |

**Student preformed \_\_\_/17 steps**

**\*\*\* annotates steps that must be completed correctly to exhibit mastery level performance**

Must complete 13 of 17 steps