**OSCE Patient-Skills**

**IV Insertion**

**The items below require assessment as to whether the materials (the first eight items) and actions or skills are essential; useful, but not essential; or not necessary to routine IV insertion. Please indicate which category each material, action, or skill, in your expert opinion, belongs to. If a material, action, or skill is “useful, but not essential” or “not necessary” indicate why you believe so. For example,**

Is identifying where in town the patient lives

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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| Determining where in town a patient lives is not necessary because it has no bearing on |
| IV insertion. Additionally, there are better ways to establish the identity of the patient |
| Such as MRN, DOB, and name. |

**Preparation and Preparation Materials**

Is Tegaderm1–4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is tape1–4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is an IV connector1–4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is a saline flush1–4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is the catheter1–4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Are gloves1–4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is a tourniquet1–4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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**IV Insertion Skills and Actions**

Is gathering the preparation supplies1–4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is removing the heplock5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is attaching the extender (to the heplock)5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is flushing the extender5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is keeping the flush extender attached5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is donning gloves1,4–6

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is identifying the non-dominant arm5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is placing the tourniquet proximal to insertion site tight enough to occlude venous flow1,2,4,5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is inspecting for veins that appear easier to cannulate distally on the non-dominant arm1,4,5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is palpating for veins that appear easier to cannulate distally on the non-dominant arm1,4,5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is cleaning the area circumferentially from center to periphery1,2,4–6

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is not touching the intended cannulation site after it has been cleaned with alcohol1,2,4–6

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is inserting the catheter bevel up2,3,5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is not touching the part of the catheter that will be inside the patient’s arm/vein2,3,5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is applying distal traction by placing your hand away from needle insertion site1,3–6

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is advancing the needle at 30-45 degree angle with bevel facing up1–5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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When there is blood return, is lowering the angle of the needle to 10 degrees1–5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is advancing the catheter1–5 by extending the dominant index finger against the small tab that extends up from the top of the hub of the catheter, while maintaining slight traction on the vein with the non-dominant hand to prevent vein movement2

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is retracting the needle essential2,3,5

* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is removing the needle essential2,3,5

* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is applying pressure above the IV site without letting go of the catheter after the needle is removed4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is removing the tourniquet1–5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is connecting an IV tube extender1–5

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is drawing back on the plunger to check for blood return4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is locking the extender securely proximal to the catheter hub4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is removing the syringe4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is reconnecting the heplock3

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is applying Tegaderm over the IV insertion site on the hub of the catheter1–4,6

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is taping the catheter and tubing in place with two separate pieces of tape1,4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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Is disposing of the needle in a proper sharps container1,4

* essential?
* useful but not essential? Why? or
* not necessary? Why?

Why? (Required for all answers except “useful”.)

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References

1. Tintinalli JE, Stapczynski JS, Ma OJ, Yealy DM, Meckler GD, Cline DM. *Tintinalli’s Emergency Medicine: A Comprehensive Study Guide*. Vol 8th ed. Columbus, OH: McGraw-Hill Education / Medical; 2016.

2. Frank RL. Peripheral venous access in adults. *UpToDate*. 2016.

3. Leuven W& Van, Wilkinson & Van Leuven. *Procedure Checklist Chapter 36: Initiating a Peripheral Intravenous Infusion*.; 2007.

4. Ross University School of Medicine. Intravenous Cannulation Checklist. 2016.

5. Learning TD. *Skill 18: Insertion of a Peripheral IV Line*.

6. Infusion Nursing Society. Short Peripheral Catheter Checklist: Think Safety, Insert Safely. *Infus Nurs Soc*. 2014;(1):1. doi:10.1007/s13398-014-0173-7.2.